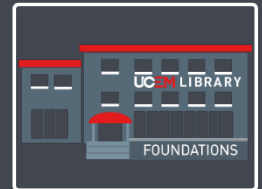
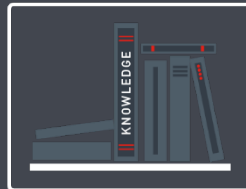


PLEASE NOTE: This document is over 125 pages long. Please consider the environment before printing this document. Please do not let over 100 pages put you off ... there is a contents page to help you select and easily navigate towards areas of most interest.

| BUILDING | CONSTRUCTION | DEVELOPMENT | SUPPORTED ONLINE LEARNING | EDUCATION | FINANCE | LAW |
MANAGEMENT | PLANNING | PROPERTY | RESIDENTIAL | REAL ESTATE | RURAL | SUSTAINABILITY | VALUATION |

UCEM UNIVERSITY COLLEGE
OF ESTATE MANAGEMENT

Knowledge Foundations



March 2019

Welcome to UCEM's monthly *Knowledge Foundations* (formerly the Library e-bulletin), a compendium of news & views, research & resources relating to the educational sector and the Built Environment.

The UCEM Library aims to disseminate information, promote current awareness and share good practice, to assist in the continual professional development of all those working and aspiring to work within the Built Environment / Property and Construction industries.

We welcome news and information from readers to include in future editions - please [email us](#)

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[Further news stories from the University College of Estate Management \(UCEM\) incl. features, research published and a presence + voice at conferences.](#)



Other news

[Things you need to know this week](#): Bristol signs up new homes for city heat network - The biggest *Placemaking Resource* (incorporating *Regeneration + Renewal*) hitting the news are shared. In this article, High-rise scheme of 375 homes will be first private development linked to Bristol City Council's heat network.

[Case Study](#): A new eco-district for the city

[Advice](#): Using offsite construction methods for new housing

['News from the nationals'](#) – gain access to *Estates Gazette's* daily round-up of the top property stories with quick links provided

[AI and digital design to transform future of UK construction](#)

[Latest Data Protection News and Research](#):

- Latest news: **Data Protection and Brexit – is your organisation prepared?**
- General Data Protection Regulation (GDPR) – **What's new**,
- Related resource links and further information on Data Protection (Incl. Re: UCEM), and
- Construction firms hit by massive summer surge in cyber-attacks

Please note that there is a new **Information Governance** section in this issue **incl. Copyright and Data Protection**

[Grenfell Tower fire](#) – Latest developments / outcomes from

- Hackitt: Government delay has led to 'loss of momentum'
- *Building a Safer Future: an implementation plan* – setting out the government's programme of work to ensure people who live in residential high-rise buildings are safe and feel safe, now and in the future.
- GOV.UK – Information relating to the fire at Grenfell Tower.

Other News and Views cont.

The future of retail - Are bricks-and-mortar shops really doomed, as the headlines seem to suggest?

- ['More funding to help town centres and high streets thrive'](#), and 'Retail industry experts have called for a community-focused to tackling the challenges facing high streets'
- CBRE: [Future of Retail 2030](#) – The retail industry is rewriting the laws of physics. Change is coming at an even faster rate each year. Explore the world in 2030 and the future of retail 2030.

[Smart Cities District Information Modelling and Management for Energy Reduction](#) – Latest research collaboration from ARUP

[House-building boosts construction activity but infrastructure projects fail to materialise](#)

Brexit - [Falling sales leave house price hopes at a 20-year low 'thanks to Brexit uncertainty', says RICS estate agents](#)

[Construction no-deal Brexit plan launched](#)

[Brexit: Jargon-busting guide to the key terms](#)

[Unlocking construction's digital future: A skills plan for industry.](#)

[Concerns for Skills Shortages in the 21st Century: A Review into the Construction Industry](#)

Royal Institution of Chartered Surveyors (RICS) **Knowledge and research** – [Insights](#) cover topical issues in land, real estate, construction and infrastructure to promote understanding of the profession, aid knowledge transfer and stimulate debate.

'Housing market activity set to weaken again next year' – [RICS Latest Housing Market forecast: 2019](#)

Tackling mental health in the workplace and wellbeing with the Construction Industry –

- [Co-op Community Wellbeing Index](#)
- [How Laing O'Rourke tackles mental health](#)

Revaluing Parks and Green Spaces – Measuring their economic and wellbeing – [Latest research from Fields in Trust](#)

The Construction Index – [Lendlease reports gender pay gap progress](#)

[Microsoft to pump \\$500m into affordable housing](#)

[RICS News / New HMO rules came into effect in England on 1 October 2018](#)

[Building Cost Information Service \(BCIS\) Schedules of rates updated for 2019](#)

[Selecting benchmark building prices & further information on RICS's BCIS](#)

[Access to the Joseph Rowntree Foundation's \(JRF\) latest research](#) reports and comments relating to policy and practice Incl.

[UK Poverty 2018 – The JRF analysis Unit](#)

Family sharing – a minimum income standard for people in their 20s living with parents - [Latest research from Loughborough University and funded by JRF](#)

[Designing a Shared Property Fund](#)

[Home Builders Federation \(HBF\) Reports and Housing Calculator](#)

UK Property Research – Latest research from Savills UK incl.

- [UK Property Research](#) - *Valuing Britain 2018*
- [Housing Supply Research](#) - Publication / *Housing Supply Update Q4 2018* – February 2019
- [Residential Research](#) – Publication / *Spotlight: Prime Residential Rents* – February 2019
- [Commercial Research](#) – Publication / *Spotlight: UK cross sector outlook* – January 2019
- [Rural Research](#) – Publication / *Market in Minutes: Prime outer commute* – January 2019
- [Brexit Research](#) – dedicated pages to the implications for different sections of the UK property market of the European Union (EU) referendum result.

Access to the House of Commons Library, Research briefings that impact on our industries incl.

- [The Construction Industry: statistics and policy](#), and
- [Latest research briefing papers from the House of Commons Library](#)

CIOB (Chartered Institute of Building) portal on government policy

- [CIOB Policy Portal latest](#)
- Press Release: [Combined Action Needed to Tackle Severe Skills Shortages](#)
- [Construction and the Modern Slavery Act: Tackling Exploitation in the UK](#)
- [CIOB, RIBA and RICS collaborate on initiative to improve building quality](#)

Latest information on Apprenticeships incl.

- [‘The exhausting road to my apprenticeship dream’](#) – BBC News apprentice tells us about her journey
- [Develop talent for your business](#) - Further information on UCEM Apprenticeship programme
- [Need to know: Apprenticeship levy FAQs](#)
- [UCEM Accreditation and recognition](#)

Access to ‘Designing Buildings Wiki’ – the construction industry knowledge base incl.

- [Further information on ‘Designing Buildings Wiki’, featured articles, and news](#),
- [‘Designing Buildings Wiki’ presents the most popular articles in each of the 32 subject areas](#), and for 2018 the most read (at over 150,000 times) was entitled, ‘Types of drawings for building design’,

- [Fragmentation of the UK construction industry](#),
- [A-Z of Construction industry institutes and associations](#), and
- [Student resources](#) including a wide range of resources aimed at students of the built environment.

The Construction Information Service - *CIS Insight 01/2019 Edition* –

- [CIS Insight](#) (01/2019 Edition) – ‘Defining green’. The World Green Building Council defines green as a building that, ‘in its design, construction or operation, reduces or eliminates negative impacts, and can create positive impacts, on our climate and natural environment. Green Buildings preserve precious natural resources and improve our quality of life. *CIS Insight* look at a variety of factors that must be considered when defining green, talk a bit about green design and operations, materials efficiency, sustainability, etc., as well as look at the top two environmental assessment programmes – BREEAM and LEED.

as well as the latest current awareness, industry news, publications news and further reading that can be access via The Construction Information Service.

The Smith Institute - a leading independent ‘think tank’ which promotes progressive policies for a fairer society.

- [Information on The Smith Institute](#) (SI).

Gain access to the latest SI research reports incl.

- [Spending fairly, Spending well: time for a radical overhaul of value for money and public audit](#),
- [Safe as Houses 2: A follow-on report into the impact of Universal Credit on Southwark Council’s housing tenants rent payment behaviour](#),
- [The hidden costs of poor-quality housing in the North](#), and
- [#notjustforboys / women in construction](#). **Related links -**

Women in construction: building a career in a challenging environment - The Guardian picture essay.

Construction company rolls out first inclusive ‘at work’ signs – The New York Post

The National Trust (NT)

- [National Trust - Big Issues](#) (incl. ‘Transport & Tourism’ and ‘Land-use & planning’) and their views
- [Why the National Trust care about planning](#)
- NT – [“Our Planning Principles”](#),
- NT – [“How we engage in planning: our role as a developer”](#),
- [Planning at a national level](#), and
- [Planning at a local level](#).

Upcoming Revo Research: Revo - Property. Community. (formerly the British Council of Shopping Centres)

Foster + Partners Projects - Further information available and access to the following:

- Image gallery,
- Sketches and drawings,
- Construction,
- Facts & Figures, and
- Project downloads.

[Access the latest information on Building Information Modelling \(BIM\)](#)

- What is Building Information Modelling?
- Gain access to **theNBS.com** website

The National BIM (Building Information Modelling) Library - Latest information freely available to access and download incl.

- The NBS BIM Toolkit, and NBS TV – the online video resource servicing-built environment professionals
- Free access to the **‘NBS National Building Information Modelling (BIM) Survey 2019’**, and previous BIM Reports Incl. International BIM Reports in full,

- Blogging about BIM, Construction and NBS.

[Latest news on BIM](#) – New international BIM standard launched

[Latest library resources incl. book titles, journal articles and research](#)

Take a look at Taylor and Francis Online, FREE planning and urban design series e-books and blog

Read a free collection of research in Higher Education – from Wiley Education

Read the most talked about articles in Education!

[RICS Library services and e-Resources](#), and

[UCEM Library services and e-Resources](#) Incl. Emerald Insight – access provided to the entire ‘Property Management and the Built Environment’ collection

...and finally

[Industry predictions 2019: Engineering, Construction & Infrastructure](#)



Property and Construction Statistics

Latest **RICS Economic Research / Market Surveys** incl.

- [RICS UK Economy and Property Market Chart Book \(Q1, 2019\)](#) – Brexit cloud hangs over the real estate market
- [UK Residential Market Survey \(January 2019\)](#)

Barbour API’s [‘Economic and Construction Market Review’](#) – Report

[‘Prepare for distress’: Turner & Townsend warns of UK construction insolvencies](#) – *Global Construction Review*

[Latest Statistics and updates from the Office for National Statistics](#) (ONS) incl.

- *ONS Release calendar*
- Construction Industry update
- Construction Industry highlights incl. *Construction Output in Great Britain: December 2018*
- Datasets related to the Construction Industry
- Output in the Construction Industry Incl. *Short-term economic indicators commentary: June 2018* and Construction Statistics Development Programme – Work plan
- *Construction Statistics, No. 19, 2018 Edition* (Latest release) - Latest Construction Statistics release from ONS

[Glenigan \(provider of UK construction project sales leads, market analysis, forecasting, and company intelligence\)](#) - Construction Market Analysis

[Health and Safety Executive \(HSE\) Statistics](#) – Construction industry

[GOV.UK \(incl. House of Commons Library, Briefing Papers\)](#) – Construction Statistics



e-Journal review

- RICS [Modus](#) Digital Magazine – February 2019: The Public Space Issue
- Latest 2019 issue of [Contractors World International](#) (Vol 9, No 1) incl. UK: World famous landmark undergoes renovation, and Potholes – Fighting a losing battle

- Institute of Workplace and Facilities Management (IWFM) Digital Magazine – [FM World](#) January 2019: the latest issue
- The Heritage Alliance's latest '[Heritage Update](#)' e-Bulletin (2019) – The e-Bulletin provides current awareness and industry news over a number of built environment-related fields incl. 'Heritage Alliance sign open letter against permitted development rights'; 'Connecting communities with place through infrastructure projects'; 'New name and strategy for the HLF'; 'Five areas to share £20 million to invest in culture'; 'Housing monitoring and evaluation strategy', 'Baroness Thornhill: extending permitted development rights will create even more poor quality homes and undermine local economies', and more.
- [Open Praxis](#) (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education. The latest issue published (October 2018) incl. 'Exploring the Emerging Field of Online Tertiary Education for Refugees in Protracted Situations'; 'Cheating and Plagiarism in E-Assessment: Students' Perspectives'; 'Entry Qualifications of Students as Predictors of Academic Performance in Various Degree Programs in Distance Education setting in Pakistan'; 'The relationship between Personality Traits, learning Styles and Academic performance for E-Learners'; 'Employers' Perceptions and Expectations of Professional Competency of Distance Learning Graduates: A Tracer Study of Nursing Graduates of the National Open University of Nigeria (NOUN)'; 'Experiences of Timorese language teachers in a blended Massive Open Online Course (MOOC) for Continuing Professional Development'; 'Are Private Universities Exempt from Student Concerns About Textbooks Costs? A Survey of Students at American University', and Book Review - 'Best Practices for Teaching with Emerging Technologies'.
- [EURODL \(European Journal of Open, Distance and E-Learning\)](#) is an electronic, multi-media, open access journal. It publishes the accounts of research and presents scholarly work and solid information about open, distance, online and e-learning in technology-enhanced education and training in its most inclusive definition. The latest issue incl. Liyanagunawardena T, Scalzavara S, and Williams S (2017) 'Open Badges: A systematic Review of Peer-Reviewed Publishers Literature (2011-2015)'
- Online Learning Consortium (OLC) [Online Learning Journal](#) – Latest issue published. NOTE: The MERLOT community has joined forces with the OLC (formerly Sloan-C) to expand scholarly research in the field of online education, with a merger of the Journal *Online Learning* (formerly JALN) and the *Journal of Online Learning and Teaching* (JOLT) that was previously reviewed within this e-Bulletin. The latest issue published (Vol 22, No 4 (2018)) incl. Special Issue [S.I.]: 'Introduction to The American Educational Research Association (AERA); 2018 Online Teaching and Learning (OTL) Special Interest Group (SIG)'; 'Synchronous and Asynchronous Discussions: Effects on Cooperation, Belonging, and Affect'; 'Navigating assigned roles for asynchronous online discussion: Examining participants' orientation using conversation analysis'; 'Exploring the Impact of Small-group Synchronous Discourse Sessions in Online Math Learning'; 'Quiet Participation: Investigating non-posting in online learning'; 'Characterising Super-Posters in a MOOC for Teachers' Professional Development'; 'Digging deeper into Data: The role of gateway courses in online student retention'; 'Going the Distance – Online Course Performance and Motivation of Distance-Learning Students'; 'The Effect of a Multifactor Orientation on Student Performance: Organisation Skills, Goal setting Orientation to Classroom, and Academic Support'; 'Examining Construct Validity of the Student Online Learning Readiness (SOLR) Instrument Using Confirmatory Factor Analysis'; 'Student engagement with course content and peers in synchronous online courses discussions'; 'Supporting Learning Engagement with Online Students', and more.

The [Open Education Research Hub](#) (OER Hub) research the impact of open educational resources (OER) in teaching and learning practices.

The [Directory of Open Access Journals](#) (DOAJ)

UCEM Students and Staff have full access to the Current and Archive copies of the following key academic journals:

[Taylor and Francis Online](#) incl.

- ***Construction Management and Economics***,
- ***Building Research and Information***, and
- ***Journal of Property Research***.

[Henry Stewart Publications](#) incl.

- ***Corporate Real Estate***,
- ***Journal of Building Survey, Appraisal & Valuation***, and

- *Journal of Urban Regeneration and Renewal.*

[e-Journal review archive](#)



[e-Book review](#)

(**Note:** Books are also reviewed within the e-Journals listed above)

- The Battle for Open: How openness won and why it doesn't feel like victory
- The new landscape of mobile learning: Redesigning education in an app-based world
- Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
- Studying at a Distance
- Rethinking Pedagogy for a Digital Age, 2nd edition
- ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

The Directory of Open Access Books (DOAB)

Latest Published Books and Journal Titles



[Information Governance incl. © Guidance and Data Protection](#)

Copyright and advice from the Copyright Licensing Agency Ltd (CLA)

- Copyright Licensing Agency - [Title search tool](#)
- Further guidance on Copyright and Digital Copyright
- 5 Ways to find images for your website
- Know your copyrights from wrongs (within Construction and Development Projects)

[Latest Copyright News](#)

[Data Protection information, advice and guidance provided incl.](#)

- Get on track with the new Data Protection rules
 - What are the aims, benefits and key changes of the new General Data Protection Regulations (GDPR)?
 - Roles: 'Controller' or 'Processor'?
 - Will GDPR matter for organisations in the UK after Brexit? and Further Information, Advice, and Guidance on Data Protection
-



Useful online resources

Incl. Open Educational Resources (OERs)

1. [Health and Safety Executive \(HSE\)](#) - Construction related information and health and safety guidance available

2. [REVO](#) – Retail. Property. Community (formerly the British Council of Shopping Centres (BCSC)). Access to further online resources incl. Research and Education
3. [The National Building Information Modelling \(BIM\) Library](#)
4. [Infabode](#) – The daily resource for **Real Estate** professionals and students
5. [Royal Institution of Chartered Surveyors \(RICS\)](#) – is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction.
6. [Chartered Institute of Building \(CIOB\) Archive](#) incl. research on Innovation in construction & Sustainability
7. [Inclusive Design Hub for the Built Environment](#)
8. [Building Research Establishment \(BRE\)](#)
9. [Global Research Gateway](#): CBRE’s online resource for Real Estate Research
10. [TRUSTDR \(Trust in Digital Repositories\)](#) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit.
11. [The CIT-EA Project Creating Innovative Technology – Enhanced Assessments](#) – a research project that explored ways to increase the amount of assessment in Further and Higher Education using technology.
12. [COPAC*](#) - COPAC exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search, you can discover the holdings of the UK’s national libraries (including the British Library), many University libraries, and specialist libraries. N.B. COPAC has loaded the catalogue of the Institution of Civil Engineers (ICE) Library onto COPAC.



[UCEM e-Library portrait incl. enquiry service](#)



[Student career service](#)

UCEM Careers service

[Open Doors – Get into Construction](#): Visit a construction site in the UK and inspire your imagination (Monday 18th – Saturday 23rd March 2019)

GoConstruct.org – Careers website: A career in construction gives you the chance to be part of something BIG! [goconstruct.org](#) & [#ElizabethLine](#)

TARGETjobs – careers guides and directories (incl. *Property 2019* and *Engineering 2019*) for you to view online and download for future reference

House building careers

Access to: RICS Careers

[Building a better you](#) – Property Elite provide training and CPD services for property professionals, incl. students and APC candidates.

[LATEST: Hot Topic Highlight – Residential Agency Update – February 2019](#)

- Property Elite’s latest blog post takes a closer look at Residential Agency Update. This update looks at three key proposals which will affect residential agency during 2019 Incl. Government commitment to introduce 5 yearly mandatory electrical checks; Proposals to require residential landlords to join a redress scheme; and Proposals for reservation agreements to be brought into the transactional agency process. If you are an RICS APC candidate, make sure you are aware of these as they will be relevant for a variety of pathways.

[UCEM's Sustainability Hub](#)



[Useful web-links](#)

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Welcome to *Knowledge Foundations* (formerly the UCEM Library *e-bulletin*)

– a compendium of news & views, research & resources



The Oxford English Dictionary defines the word '**bulletin**' as "A short official statement or broadcast summary of news" (OED, 2019).

After producing the monthly UCEM Library *e-bulletin* for exactly 6 years and building the bulletin from 7 pages at the onset (January 2013) to approximately 150 pages in December 2018, it was felt that the UCEM Centenary year was a good time to rebrand, relaunch and find a more suitable name to reflect this highly valued information service.

The initial aim of this UCEM Library current awareness service was to help keep students and staff informed of the education sector and industry specific news, share current and best practice, highlight the latest research and identify case studies that will support studying and supplement teaching and learning resources. However, over the years and upon request, the readership has now expanded and is being promoted further afield.

Supported online learning -

The readership has expanded (to include Alumni) and is now promoted further afield, with the latest version appearing on the UCEM Website [UCEM Website > Home > Supported online learning > e-Library] and available at: www.ucem.ac.uk/supported-online-learning/elibrary/ [accessed 22 February 2019]. It is also featured within a weekly Information News blog [UCEM Website > Home > News & Events > Blog > Lucy Roper's weekly Built Environment news round-up] @ www.ucem.ac.uk/news-events/blog/ [accessed 25 February 2019]

"The new title of *Knowledge Foundations* reflects the importance of laying the foundations upon which to build and increase knowledge that will help you succeed and assist with continual professional development (CPD)" (Roper 2019).

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Latest UCEM news

Principal's contribution in newly released apprenticeship research

An influential lobbying group's research report appraising degree apprenticeships which UCEM Principal, Ashley Wheaton, contributed to was released last week (see publication date).

Ashley contributed to, and is quote in, the Higher Education Commission's report on degree apprenticeships on behalf of UCEM, joining more than 40 higher education providers and other organisations in providing evidence to the Commission.

The report entitled 'Degree Apprenticeships: Up to Standard?' finds that degree apprenticeships may be good in theory, but they are not delivering for small employers or disadvantaged students.

Ashley provided feedback from UCEM's perspective in a parliamentary inquiry into the apprenticeship's agenda in September. Ashley gave evidence on four key areas for improvement in apprenticeships provision relating to funding, the availability of apprenticeship standards, the compliance burden and public sector procurement.

Ashley said: "UCEM is the largest provider of degree apprenticeships in Built Environment subjects and one of the largest providers of degree apprenticeships across the whole higher education sector, so I was delighted to be invited to contribute to this vital document.

"It's important that government hear from apprenticeship providers and the research brings together key stakeholders from across the country as one voice to feed back our collective experience. We are a passionate advocate of apprenticeships and believe that, with a few key improvements, a solution can be found to benefit employers, education providers and apprentices alike to ensure it works for everybody.

"I really hope this research is a catalyst for positive change."

To access the research, visit:

Higher Education Commission (n.d.) 'Research & Resources' [Higher Education Commissions Home > Research & Resources > Degree Apprenticeships: Up to Standard?] Higher Education Commission [online]. Available at: www.policyconnect.org.uk/hec/research/degree-apprenticeships-standard [accessed 25 February 2019]

Further information is available at:

UCEM (2019) 'Principal's contribution featured in newly released apprenticeship research', 7 February [UCEM Website > Home > News & Events > News > Principal's contribution featured in newly released apprenticeship research] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/news/principals-contribution-featured-in-newly-released-apprenticeship-research/ [accessed 25 February 2019]

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100 years of UCEM &

UCEM launches Centenary Fund to support Built Environment students



- **2019 marks the University College of Estate Management's Centenary.** Our 100th anniversary is an opportunity to showcase our heritage, celebrate our successes and share our vision for the future with a range of special events and activities as we continue to dedicate ourselves to providing access to education and training to all in the property, land and construction sectors.

- **On 14th January, UCEM was delighted to launch its centenary fund to raise money for Built Environment students.** UCEM is hoping to raise £112,500 to help an additional 100 students embark on a programme of study with the institution to access or progress their career in the Built Environment.

Awards will start to be granted from the 2019/20 academic year and applicants will be assessed on academic ability, demonstrated commitment to enter the surveying profession and financial need.

UCEM alumni, friends and supported have already raised £2,375 in support of the campaign which is now going out more widely to the public.

UCEM Deputy Principal, Jane Fawkes said: “The celebrations for our centenary year are not only about looking back, but also looking ahead to the future of the sector and how we can use this unique opportunity the centenary affords to make a positive impact.

“Every year, many prospective students who are not being sponsored by an employer contact us and, despite a huge desire to enrol on a programme of study with us, are simply unable to afford the fees. UCEM’s mission is to provide accessible and cost-effective education and whilst today we already maintain fees for our undergraduate and postgraduate programmes at well below that of competing higher education institutions, some students still require more assistance.

“We award a number of bursaries each year, but the launch of our Centenary Fund is a call to action to ask our alumni, friends and supporters in the Built Environment to contribute towards our first ever bursary fundraising campaign and help us reach our target.

“Our programmes are part-time allowing students to study around other commitments, accessible online from any location and offered at the same fee no matter where you live in the world and, it is in this spirit of widening participation that we have been bold in our ambition with the fund. I hope this will capture the sector’s imagination and lead to a wider range of professionals fulfilling their potential and contributing towards a better Built Environment.”

To find out more and to donate, visit mydonate.bt.com/charities/ucem .

Please note: To keep up-to-date with UCEM’s plans for its centenary year, keep your eye on our website for further announcements.

For more information, visit

UCEM (2019) ‘100 years of UCEM’ [UCEM Website > Home > 100 years of UCEM] UCEM Website [online]. Available at: www.ucem.ac.uk/100-years-of-ucem/ [accessed 25 February 2019], and

UCEM (2019) – ‘UCEM launches Centenary Fund to support Built Environment students’ – 14 January [UCEM Website > Home > News & Events > News > UCEM launches Centenary Fund to support Built Environment students] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/news/ucem-launches-centenary-fund-to-support-built-environment-students/ [accessed 25 February 2019]

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UCEM launches Level 3 Facilities Management Supervisor apprenticeship

UCEM is offering its first apprenticeship in Facilities Management (FM) this year (2019).

The first programme to launch will be the Level 3 FM Supervisor apprenticeship, with the first intake due to start in June 2019.

Facilities Management is a key service that underpins effective management of the Built Environment by creating safe, productive spaces where an organisation’s workforce can thrive. The programme will be of interest to all types of organisation in the public and private sector that employ FM teams to manage their workplaces. It will also be relevant to companies that provide outsourced FM services to clients.

Apprentices who successfully complete the programme will be awarded the Institute of Workplace and Facilities Management (IWFM) Level 3 Diploma in Facilities Management and will also meet the qualifying criteria for Associate Membership of the IWFM.

Stephen Bartle, Director – Commercial and Business Development, commented: “UCE has been delivering apprenticeships for over three years and now has more than 900 apprentices on programme. In response to requests from our clients we are starting to broaden the range of programmes we offer to help them address their workforce development needs.

“Having successfully delivered the Surveying Technician apprenticeship since 2015/16, we were pleased to be judged by Ofsted during their recent [monitoring visit](#) to be making reasonable progress on all themes. We are delighted to now be working with IWFM and partner employers to offer our second Level 3 apprenticeship programme.”

For further information about this apprenticeship programme click [here](#). The programme will be open for applications from 1 February 2019. Employers can register interest in this apprenticeship at any time prior to this date by contacting businessdevelopment@ucem.ac.uk.

Further information is also available at:

UCEM (2019) 'UCEM launches Level 3 Facilities Management Supervisor apprenticeship', 8 January [UCEM Website > Home > News & Events > News > UCEM launches Level 3 Facilities Management Supervisor apprenticeship] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/news/ucem-launches-level-3-facilities-management-supervisor-apprenticeship/ [accessed 25 February 2019]

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Former RICS President becomes UCEM Trustee

UCEM is delighted to announce the appointment of Amanda Clark on to its Board of Trustees.

The appointment was approved at the Board's meeting last month (13 December 2018) and see the CBRE Executive Director, who served as RICS President from June 2016 until November 2017, join with immediate effect.

Amanda's 17-month tenure as RICS President was the longest anyone had been in the role in 123 years and she became the second woman to hold the post in the institution's 150-year history.

Amanda's entry into the Built Environment was as a Quantity Surveyor and she also qualified in project management before taking on a variety of roles within RICS. She is a Fellow of RICS, a Fellow of the Institution of Civil Engineers, the Institute of Management and the Royal Society of Arts and a Certified Management Consultant.

She is an advocate of advancing the cause of women within the Built Environment and was a member of the All Parliamentary Group for Excellence in the Built Environment (APGEBE) as part of a Commission of Inquiry into Skills. She was also an Independent Expert on the Advisory Panel advising MHCLG on keeping people safe in buildings following the Grenfell Tower fire.

Commenting on her appointment, Amanda said: "I have been aware of UCEM for a long while, but more recently have admired its approach and growth, going from strength to strength. Having studied part-time for both my degrees, I know and appreciate what it's like to study in this way.

"Helping the next generation of Built Environment professionals is close to my heart, and this feels a natural fit for us both. I'm really excited to be joining UCEM ahead of its Centenary year and hope to help set the agenda for the next 100 years."

UCEM Chairman, John Gellatly, said: "I am very pleased that Amanda has accepted our offer to join the Board. Amanda brings a wealth of relevant experience to the Board and I look forward to the contributions she will provide the Trustee group, so we can benefit from her industry insight and professional knowledge.

"Amanda has already played a significant role with the institution, supporting our inaugural Skills Summit and building relationship with our Senior Leadership Team and we are delighted to formally invite her to directly contribute towards UCEM's success."

At the same meeting, a small reception was held to mark the [retirements of David Larkin and Adam Marks](#) from the Board.

For further information please visit:

UCEM (2019) 'Former RICS President becomes UCEM Trustee', 3 January [UCEM Website > Home > News & Events > News > Two long-serving UCEM Trustees retire] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/news/former-rics-president-becomes-ucem-trustee/ [accessed 25 February 2019]

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UCEM Tutor delivers CPD sessions to more than 200 people and meets with alumni in Nigeria

A UCEM Tutor delivered CPD sessions to more than 200 people and networked with alumni and real estate professionals during a week-long visit to Nigeria.

Valuation Tutor, David Hunt spoke on the theme of 'International valuation approaches for the West African market' during three, day-long CPD sessions in Enugu, Lagos and the Nigerian capital, Abuja, respectively.

David also hosted an informal alumni event in Lagos attended by five former UCEM students and was invited to present an award at an industry gala in Enugu during his visit last month.

The bespoke valuation training event was created by UCEM in partnership with CEMRAAN [The College of Estate Management Reading Alumni Association of Nigeria] at the request of their Founder, Johnbull Amayaevbo, who is also the 2nd Vice President of the Nigerian Institution of Estate Surveyors and Valuers (NIESV).

David said: "It was a very worthwhile trip. It wasn't just an opportunity to provide training but also increase the exposure of our institution. I also had the privilege to learn about some local approaches to real estate management and valuation.

"I was able to meet fellow academic, as well as valuation industry, colleagues and we managed to add a small alumni event in Lagos. The alumni event was a highlight because three of the attendees were unable to attend our graduation ceremony in the UK so my visit on behalf of UCEM meant a great deal to them, especially as I taught one of them.

"I was reminded that the first real estate professionals in Nigeria studied with us. Many people I met spoke fondly of The College of Estate Management. The trip was a chance for UCEM to build on that goodwill."

UCEM will be hosting a four-day CPD event for Nigerian delegates, covering specialist valuation techniques at its Horizons HQ in Reading in April as the institution looks to further its relationship with the country's industry professionals.

Further information is available at:

UCEM (2019) 'UCEM Tutor delivers CPD sessions to more than 200 people and meets with alumni in Nigeria', 2 January [UCEM Website > Home > News & Events > News > UCEM Tutor delivers CPD sessions to more than 200 people and meets with alumni in Nigeria] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/news/ucem-tutor-delivers-cpd-sessions-to-more-than-200-people-and-meets-with-alumni-in-nigeria/ [accessed 25 February 2019]

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UCEM's widening participation ambitions boosted by acquisition of Built Environment digital network



UCEM's widening participation ambitions have been boosted after acquiring an innovative Built Environment digital network.

Building People, a social enterprise that aims to connect people traditionally not involved in the Built Environment sector with employers seeking to plug skills gap via an online platform, is now a subsidiary of UCEM.

As part of the acquisition, Building People founder, Rebecca Lovelace, has joined UCEM as an employee and will continue to advance the work of the technology platform and network, enabling and connecting an ecosystem of existing employment and skills providers with employers and jobseekers. Part-funding will now come directly from UCEM as part of the institution's every-growing focus on widening access to opportunities across the Built Environment.

UCEM Principal, Ashley Wheaton, commented: "I am delighted to welcome Rebecca and Building People to UCEM in what I believe will be a hugely positive development for all involved.

"When we held the **first Built Environment Skills Summit at UCEM at the end of 2017** (see further information below), all the stakeholders in the room were unanimous in the view that the sector lacked a coherent voice and sufficient collaboration to effect demonstrably positive change.

"I then spoke to Rebecca who told me about Building People and her vision which convinced me that the organisation could provide that missing link between real estate and construction firms and underrepresented groups within the sector. I am tremendously excited about the future for Building People and look forward to supporting Rebecca in her efforts to galvanise the sector as it modernises to meet the challenges of an insufficient skills supply and appeal to more sections of society."

Rebecca Lovelace added: "It's fantastic that UCEM has been the first to truly invest in Building People. We already have significant support across industry and more many third sector employment and skills providers, and this commitment and leadership from UEM is enabling Building People to more securely take the next steps in joining the dots across the Built Environment.

"Building People's mission is to collaboratively develop and deliver a technology platform that enables improved connections between supply and demand across the Built Environment, aggregating and adding value to providers, not duplicating nor reinventing what already exists.

"Our aim is for Building People to become the single digital marketplace to connect people to opportunities across the sector in the UK. We don't need to create yet another initiative; we need to enable and improve connections, drive traffic and add value to what already exists and make it easier for jobseekers and employers to come together. It is by enabling this collaboration that we can truly create one single marketplace that connects supply with demand.

Many groups and organisation are already supporters of Building People, including the Royal Institution of Chartered Surveyors (RICS), the Chartered Institute of Building (CIOB), Landsec, the Federation of Master Builders (FMB) and Women into Construction.

Sir John Armitt, Chairman of the City & Guilds Group, said: "The industry needs to improve its productivity and we need to find a better way to recruit, develop and retain the talent of diverse individuals.

"The ambition of Building People to create a technology platform and collaborative network, which enables connections and seeks to reduce skills shortages across the Built Environment, is timely and needed."

To find out more about **Building People** and get involved, visit Building People website [online]. Further information is available at: <https://buildingpeople.org.uk/> [accessed 22 February 2019]

UCEM (2018) 'UCEM's widening participation ambitions boosted by acquisition of Built Environment digital network', 21 November [UCEM Website > Home > News & Events > News > UCEM's widening participation ambitions boosted by acquisition of Built Environment digital network] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/news/ucems-widening-participation-ambitions-boosted-by-acquisition-of-built-environment-digital-network/ [accessed 25 February 2019]

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Other UCEM News stories incl.

UCEM's Built Environment Skills Summit report demands the UK rises to the challenge



For further detail and access to the report in full, please visit,

UCEM (2018) 'UCEM's Built Environment Skills Summit report demands the UK rises to the challenge', 31 January [UCEM Website > Home > News & Events > News > UCEM's Built Environment Skills Summit report demands the UK rises to the challenge] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/news/ucems-built-environment-skills-summit-report/ [accessed 25 February 2019]

Online, Flipped, Blended Approach to Apprenticeship Education: A case study of UCEM's Surveying Technician Diploma

'Online, Flipped, Blended Approach to Apprenticeship Education: A case study of UCEM's Surveying Technician Diploma', presented at the World Conference on Online Learning [online], 6-19 Oct, Toronto. For further information on this innovative project and to access the case study in full please [Click Here](#). [accessed 25 February 2019].

University College of Estate Management features in 'Masterminds of Construction' in association with ITN productions and the CIOB

UCEM (2017) 'University College of Estate Management features in 'Masterminds of Construction' in association with ITN productions and the CIOB', 13 December [UCEM Website > Home > News & Events > News > UCEM features in 'Masterminds of Construction' in association with ITN Productions and the CIOB] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/news/ucems-centenary-activity-boosted-by-national-lottery-grant/ [accessed 25 February 2019]

See also: CIOB – Chartered Institute of Building website [online]. Available at www.ciob.org/masterminds-construction [accessed 25 February 2019]

N.B. Please refer to additional information provided later within this issue.

UCEM website @ www.ucem.ac.uk

& why not follow us on our newly updated Social Media sites also incl.



<https://twitter.com/StudyUCEM> [accessed 25 February 2019],



<https://www.facebook.com/StudyUCEM> [accessed 25 February 2019],



<https://www.linkedin.com/company/university-college-of-estate-management> [accessed 25 February 2019],



<https://www.youtube.com/user/cembuildingfutures/videos> [accessed 25 February 2019].

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Other news

Things you need to know this week: Bristol signs up new homes for city heat network

'Things you need to know this week' is a weekly article produced by Placemaking Resource and incorporating *Regeneration + Renewal* magazine and highlights the biggest placemaking stories from the past seven days (see below mentioned publication date). In this article, High-rise scheme of 375 homes will be first private development linked to Bristol City Council's heat network.

This and other stories incl.

- **Bristol City Council has agreed its first connection to the council's low carbon heat network, signing up a development of 375 homes in the city centre.** The network will provide low carbon, affordable heat to residents at Castle Park View, a planned scheme incorporation a 26-storey tower, which is scheduled for completion in 2022. The council's existing heat networks already connect more than 1,000 social housing units, but this will be the first commercial connection to a private development. Castle Park View is being developed on the site of a former ambulance station in the city centre. Developer Linkcity is working with government agency Homes England, Bristol City Council, investor M&G Real Estate and housing provider Yarlington Housing Group to deliver the scheme, which is designed by architect Chapman Taylor. Yarlington will own 75 homes in the block, which will be made available for affordable rent, and the remainder are expected to be for private rent.
- **Communities secretary James Brokenshire has announced the next wave of housing associations to secure strategic partnership deals with Homes England, as well as a deal aimed at delivering homes on the rooftops of existing London Buildings.** The third wave of strategic partnerships is expected to deliver 11,000 affordable homes, with funding awarded to affordable providers, Bromford, Curo and Swan, Liverpool Mutual Homes and Torus, Longhurst and Nottingham Community Housing Association, Together, Walsall Housing Group, Yorkshire and Your Housing Group. Homes England has also agreed a three-year funding deal with developer Apex Airspace Developments, which will deliver 78 rooftop homes on five sites. Apex expects the first three sites, comprising 32 homes, to be ready this summer, with homes being for sale at prices within the threshold of the government's Help to Buy initiative.
- **Oldham Council has completed a deal with housebuilder Countryside Properties to deliver 140 affordable homes at the Broadway Green site in Chadderton.** The Broadway Green scheme is a joint venture regeneration between Oldham Council, developer Grasscroft Property and construction group Seddon, which will provide 500 new homes and employment space. Housebuilder Redrow is already on site constructing 97 homes in the first phase of residential development.
- **Southwark Council in south London plans to introduce social indicators to help it access the broader impact of regeneration schemes.** The proposed social regeneration indicators will allow the council to consider the impact of potential schemes on a range of concerns, including life expectancy, physical and mental health, social mobility, education and employment rates, access to culture and housing quality.
- **Affordable housing provider L&Q is to unite Gallagher Estates – the strategic land business it acquired a year ago – with its own development division as part of its objective to deliver 10,000 new homes a year.** The move will enable L&Q to assume the role of master developer, boosting its ability to work strategically with local authorities and other partners and housebuilders. The development division will be called L&Q Estates.
- **Glasgow City Council has appointed its first city urbanist to enhance the city's approach to placemaking and connectivity.** Professor Brian Evans, from the Glasgow School of Art's Mackintosh School of Architecture, will work with councillors, officers, the design community and city partners and stakeholders in the part-time role.

Source: Smit J (2019) 'Need to know: Bristol signs up new homes for city heat network', *Placemaking Resource* (incorporating *Regeneration + Renewal*) [online] 30 January. Further information available at: www.placemakingresource.com/article/1524299/need-know-bristol-signs-new-homes-city-heat-network [accessed 25 February 2019]

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Case study: A new eco-district for the city

- In Leeds' South Bank regeneration area, an emerging development is promoting a sustainable form of city living.

Cities are associated with high rise apartment blocks, traffic-locked streets and concrete, steel and glass. This is not where you expect to find a developer creating a scheme with eco-houses, vegetable plots and car-free avenues. But a development in Leeds is testing a sustainable model of city living, which draws on Scandinavian and European influences.

Developer Citu is this week (see publication date) moving residents into the first phase of homes at its Climate Innovation District. The overall scheme comprises 520 homes, all-in low-rise blocks of four to six storeys, and usually around half of the homes in the city development are family houses.

Challenge - The Climate Innovation District is one of a number of schemes regenerating Leeds' South Bank, an area of 253 hectares beside the River Aire. The area was once home to traditional industries, and is now being redeveloped with a mix of uses, including more than 8,000 homes, to double the size of Leeds' city centre. The transformation is set to include a station for the High Speed 2 rail link.

The Climate Innovation District is being developed on a sloping site straddling the River Aire, which is close enough to the city centre to give it sustainable commuting potential. Delivering on overall environmental aspirations is the biggest challenge for Citu, says managing director, Chris Thompson. "We are on a journey to tackle high environmental performance within our business, and that involves a big cultural change," he points out.

Solution - The site comprises two areas, with the first having terraces flanking the river, designed by White Arkitekter. The second – with designs by architect Ollier Smurthwaite – is located on the opposite side of the river, close to a factory where Citu is producing the timber frames for the homes. The two areas are linked by a newly installed pedestrian bridge, designed by structural engineer DP Squared and architect Gagarin Studio.

The housing mix is split between four-storey townhouses and apartments, the latter in buildings of variable height, to accommodate changes in site level. This change in site level has also been used to conceal car parking – with electric charging points – in basements.

Homes are designed for sustainable living with such features as:

- Energy efficient timber frame construction
- Lightwells and triple height void spaces to enhance daylighting, and aid passive cooling
- Mechanism ventilation with heat recover.

Citu's timber frame system is best suited to lower rise development, but the overall scheme density remains relatively high, says Thompson. "We've done that by making public space work harder," he explains. Rooftops are used for roof terraces, as well as accommodating solar panels and green roofs.

The low rise community has a human scale, says Thompson. "The scale of the buildings gives a sense of safety. The proportions of the public realm – the space and depth between homes – are all important." Streets are designed to be pedestrian and bicycle friendly.

Homes' private terraces lead to communal gardens, which are intended to promote social interaction and community. The developer hopes that residents will enhance their landscape by planting rain gardens as well as fruit and vegetable plots in shared areas.

The developer is establishing a community interest company (CIC) to own and manage the development into the future. The CIC also controls to utility cooperative, which will own onsite renewable energy technologies and provide electricity, water and data cost-effectively to all residents. "This allows people to take control of their environment," explains Thompson. Energy from solar panels will supply the development as a whole rather than the individual building where they are located. "It's a more efficient and viable model," says Thompson. The CIC has a third function in the community, he adds, "It is the mechanism through which people formally interact and form social connections."

The homes are all for private sale and are being well received by the market, says Thompson. "This is very different to typical suburban new build – in the homes' volumes, spaces and energy performance, in the communal space and in the potential impact on health and wellbeing. We're tapping into a very different sort of market."

Source: Smit J, (2019) 'Case Study: A new eco-district for the city', **Placemaking Resource** (incorporating *Regeneration + Renewal*) [online], 16 January. Further information available at: www.placemakingresource.com/article/1523163/case-study-new-eco-district-city [accessed 25 February 2019]

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Advice: [Using offsite construction methods for new housing](#)

- Offsite approaches can produce high quality and environmentally efficient homes, but it's important to ensure the system allows the flexibility to deliver good design quality too, writes the author of this article.

Homes produced in a factory can be part of an integrated development process, which starts with the masterplan and leads to the seamless installation of modules on the site, says Rory O'Hagan, director of Assael Architects. There can be advantages in terms of quality and speed of construction of the homes, "This means that they achieve a higher environmental performance and there is less waste" he explains. The design quality can be just as high as it is for homes created using conventional routes, as long as the factory-based system is sufficiently flexible to accommodate the designs, he adds.

He points to some housebuilders that are buying into or setting up housing manufacturers to have control of the construction process. This includes housebuilders Urban Splash and Swan Housing Association and the insurance company Legal & General.

Here are three tips for promoting off-site construction to deliver major housing projects.

1. Think about construction system at the outset

The use of offsite manufacture needs to be considered at the outset of a scheme to maximise the benefits, Darren Jones, associate at architect ShedKM says. That is when the masterplan is being drawn up for new sites, and when estate redevelopments are being planned. Some sites can be built on that otherwise would not be suitable, because structures are lighter or less working space is required, he points out.

Tight urban sites can be developed, which might otherwise be problematic, says Dave Lomax, senior associate at Waugh Thistleton Architects. "Factory produced housing, using cross laminated timber is much lighter, which means that difficult sites about railway lines can be built on," he says. He points to the practice's scheme for Dalston Lane, in Hackney in north London. "We could build directly over a safeguarded Crossrail 2 tunnel site and close to High Speed 1 because of the 80 per cent reduction in weight compared to conventional construction methods." They could also increase the housing density, allowing an additional two storeys to be included in the scheme.

"With much of the construction for new homes taking place offsite, there is less disruption to the residents living in the vicinity," says Geoff Pearce, executive director of regeneration at Swan Housing Association, which is part of the management for Nu Build, its housing producer. There are fewer vehicle movements and less noise, he explains. On small sites, there can be problems with storing materials for traditional methods of construction. These are avoided if most of the construction takes place elsewhere, Pearce points out.

If whole modules are being produced offsite the main constraints are ensuring they can be put on lorries to deliver to the site and lifted on cranes onto the foundations, acknowledges Pearce. Nu Build works alongside architects and engineers while the scheme is being worked up to ensure homes can be built in the factory and delivered to site.

2. Ensure variation in design and layout

Offsite manufacture has reputation for producing rows of housing that all look the same, says Jones. He points out that the Victorian terraced housing across swathes of urban areas are popular – and they all look very similar. He says that a good system will allow for a lot of variation. Jones has developed the Townhouse system for Urban Splash. So far about 150 homes have been produced across several sites in Manchester and Salford, and a further 80 are planned in Birmingham. "The homes can be customised to fit the requirements of the occupier and the location, both in the layout and the facades," he says.

The systems generally offer a range of modules, which use the same basic components. "Some could include a balcony, or a roof terrace or have different bathroom types," Assael's O'Hagan says. "The facades are generally installed onsite and varied according to the specification of the architect," he explains.

Waugh Thistleton's Lomax says that it is possible to combine different systems in the same development to gain more variation. He points to a scheme in Brighton, which they designed using three different systems, so that they could build round a roundabout.

3. Balance cost versus speed

The private rented sector (PRS) has embraced offsite manufacture because the schemes tend to involve blocks with identical modules and it fits their business model. "The short construction time means that they start to get a return from their investment in the site more quickly," says Lomax. The costs of using offsite construction are higher, which is compensated for by the speed to a great extent.

Assael designed the Union Wharf development in Greenwich, south east London, for PRS landlord, Essential Living. “Initially they were going for conventional construction methods, but then realised the financial benefits of offsite,” says O’Hagan. This meant we had to redesign it,” he adds.

Further information is available at:

Smit J (2019), ‘Advice: Using offsite construction methods for new housing’, Placemaking Resource, Incorporating *Regeneration and Renewal* [online], 30 January. Available at:

www.placemakingresource.com/article/1524285/advice-using-offsite-construction-methods-new-housing [accessed 25 February 2019]

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Estates Gazette’s News from the nationals’

– Access to a daily round-up of the top property stories with quick links ...

Estates Gazette (2017) ‘News from the nationals’ [online]. Further information is available at:

www.egi.co.uk/news/ [accessed 25 February 2019]

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AI and digital design to transform future of UK construction

- £18 million Industrial Strategy Challenge Fund investment in research and innovation projects will transform how the UK delivers buildings and infrastructure.

Using artificial intelligence to predict and plan construction projects and avoid possible delays is one of the ideas to win funding to transform how the UK delivers buildings and infrastructure.

Just over £18 million is being invested through the Industrial Strategy Challenge Fund in research, development and innovation projects to support a more efficient, highly-skilled and productive construction industry.

The funding from UK Research and Innovation is part of the transforming construction challenge – a £170 million government commitment, matched by £250 million from industry – to embed new approaches and techniques that enable the UK to become a world leader.

Business-led collaborations

A total of £13.3 million has been awarded to 24 projects, which will see industry collaborate with the research base to innovate.

Included in the awarded projects are:

- A project by nPlan, Kier and the University of Cambridge, which will use AI and algorithms to better predict, plan and schedule construction projects. The aim is to optimize buildings and reduce time and cost.
- A consortium including housebuilder, Barratt Developments, and one of the largest social landlords, L&Q, which aims to make offsite manufacturing a viable alternative to traditional methods by exploring how it can bring down the costs, reduce defects and improve productivity
- A Keltbray Group-led project to develop a new piling technology that will enhance capacity and improve sustainability when laying foundations

For all projects, the ultimate aims are to:

- Develop digitally-enabled simulations that support the design and management of buildings
- Adopt offsite manufacturing approaches that improve the quality of buildings
- Create active power generation and storage within buildings

Further information is available at:

GOV.UK, Innovate UK, Engineering and Physical Sciences Research Council, and UK Research and Innovation (2019) ‘News story: AI and digital design to transform of UK construction’ [GOV.UK Home > Government > Government efficiency, transparency and accountability > Government spending > Government funding programmes] GOV.UK [online]. Available at: www.gov.uk/government/news/ai-and-digital-design-to-transform-future-of-uk-construction [accessed 25 February 2019]

Related Link:

Lindgren L (2019) 'Using AI to manage construction projects', RICS [online]. Available at: www.rics.org/uk/news-insight/future-of-surveying/surveying-technology/using-ai-to-manage-construction-projects/ [accessed 25 February 2019]

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Latest Data Protection News & Research:

Data Protection and Brexit – is your organisation prepared?

The Government is making preparations and wants to make sure that you are ready too, particularly when it comes to your data. Businesses of all sizes should check that you won't lose access to vital data if the UK leaves the EU without a deal.

Digital Minister Margot James's **blog posts** points to some simple [steps](#) to do this from the ICO and detailed guidance. For example, adding standard contractual clauses to your contracts could be enough to avoid potential problems, and there's an **interactive tool** to help you do it.

Related Links:

Department for Digital, Culture, Media and Sport (2019) 'DCMS blog' [online]. Available at: <https://dcmsblog.uk/> [accessed 25 February 2019] and https://dcmsblog.uk/2019/01/data_protection_and_brexit_is_your_organisation_prepared/ [accessed 25 February 2019]

ICO - Information Commissioner's Officer (2019) 'Do I need to use standard contractual clauses (SCCs) for transfers from the EEA to the UK (if we leave the EU with no deal)?

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

LATEST Data Protection related news

Google hit with £44m GDPR fine over ads

Fox C (2019) 'Google hit with £44m GDPR fine over ads' BBC News, Technology [online], 21 January 2019. Available at: www.bbc.co.uk/news/technology-46944696 [accessed 25 February 2019]

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GDPR - What's new?

The guide to the GDPR explains the provisions of the GDPR to help organisation comply with its requirements. The Information Commissioner's Office website has a **What's new** section that is updated on a regular basis to highlight and link to any changes as they occur, for example:

December 2018 – ICO have published a 'Guide to Data Protection', combining existing guidance on the GDPR and law enforcement regimes with new guidance explaining some basic concepts, how the DPA 2018 works, and which regime applies. They have expanded guidance on scope and key definitions in the guide to law enforcement processing. They have also expanded guidance on contracts, published guidance on controllers and processors and published detailed guidance on controllers and processors and contracts and liabilities.

November 2018 - ICO published detailed guidance on encryption,

September 2018 – ICO expanded their guidance on exemptions,

August 2018 – ICO expanded guidance on International transfers.

Further information is available at:

ICO (2019) 'What's' new' [ICO Website > Home > For organisations > Guide to the General Data Protection Regulation (GDPR)] ICO [online]. Available at: <https://ico.org.uk/for-organisations/guide-to-the-general-data-protection-regulation-gdpr/whats-new/> [accessed 25 February 2019]

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Related resource links and further information on Data Protection:

[Data laws made fit for the digital age](#)

- Tough new data protection laws, The General Data Protection Regulation (GDPR) became law on 25 May 2018. *Source:* GOV.UK, Department for Digital, Culture, Media and Sport, and Margot James MP (2018), News Story: 'Data laws made fit for the digital age' [online]. Available at: www.gov.uk/government/news/data-laws-made-fit-for-the-digital-age?utm_source=792e6351-26af-4550-abe1-85b07a4a97a5&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 25 February 2019].

Democracy disrupted? Personal information and political influence

– Latest report from the Information Commissioner's Office (ICO)

Source: ICO (2018) *Democracy disrupted? Personal information and political influence* – Latest report from the Information Commissioner's Office (ICO) [online]. Available at: <https://ico.org.uk/> [accessed 25 February 2019]

What is GDPR?

WATCH: What is GDPR? [video]. Available via the above-mentioned link. Duration [1m 53s] and via *Source:* Fox C (2019) 'Google hit with £44m GDPR fine over ads' BBC News, Technology [online], 21 January 2019. Available at: www.bbc.co.uk/news/technology-46944696 [accessed 25 February 2019]

In relation to UCEM

In relation to UCEM, we are fully committed to protecting the rights of individuals to have their personal data collected and stored securely and used for only legitimate and lawful purposes for which their consent has been sought. UCEM complies with the Data Protection Act 1998 and complies with General Data Protection Regulation 2016 that became part of UK law from May 2018.

To access the UCEM full Data Protection Policy and its Privacy Policy that sets out the type of information UCEM collect and how it is used, can be accessed via the UCEM website and available at: UCEM Website > Home > About UCEM > UCEM policies @ www.ucem.ac.uk/about-ucem/ucem-policies/ [accessed 25 February 2019]

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[Construction firms hit by massive summer surge in cyber-attacks](#)

- Malicious attacks on company systems running Microsoft's Internet Information Services (IIS) rose from 2,000 in the first quarter of 2018 to 1.7 million in the second, with the construction industry one of the five sectors most targeted, a report claims.

The analysis from eSentire, a cybersecurity consultant based in Cambridge, Ontario, looked at attacks on servers running IIS, as well as Oracle WebLogic and the Drupal open-source platform. It found that the attacks mostly originated from servers with Chinese IP addresses.

Sectors most affected were construction, accounting, biotechnology, marketing and real estate, which eSentire said was caused by the prevalence of vulnerable, outdated IT systems.

Hackers gained control of systems to create mayhem by accessing confidential information, unleashing ransomware, or planting "cryptominers" on servers to force them to use their CPUs to create digital currency. A common attack uses the Emotet trojan to obtain enough financial information to access a company's bank account.

The programs are often found in malicious documents or URL links inside the body of an email, sometimes disguised as an invoice or PDF attachment. About half of Emotet attacks used files with "invoice", "payment", or "account" in their name.

Construction was the least likely sector to be attacked out of the five, but it was the principal target for phishing attacks, often based on the DocuSign app for handling digital invoices, as well as fake Office 365 and Dropbox files.

The severity of this kind of "credential theft" depends on what service the username and password were being used to log onto. The theft of DocuSign or Dropbox credentials being particularly dangerous, especially if the same credentials are used to access more than one service.

The report comments that companies can take simple steps to reduce their exposure to cyber-attacks. It says: “The reason attacks continue is because most organisations have internal systems they hesitate to update for fear it will change or break something.

“These systems are sometimes accidentally exposed to background internet radiation which includes a firehose of exploits. Or, they are unaware that a patch if necessary or underestimate the gravity of failing to patch. “This is an easily rectifiable problem that lingers for many.”

Further information and access to download the report is available at:

GCR Staff (2018) ‘Construction firms hit by massive summer surge in cyber-attacks’ [online], Global Construction Review, CIOB. Further information is available at: www.globalconstructionreview.com/trends/construction-firms-hit-massive-summer-surge-cyber-/ [accessed 25 February 2019]

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Grenfell Tower - Latest developments / outcomes from

Hackitt: [Government delay has led to ‘loss of momentum’](#)

- Dame Judith Hackitt has spoken of her “regret” that a seven-month delay by the government in announcing that it would back her recommendations to overhaul fire safety and Building Regulations has led to a “loss of momentum”.

Meanwhile, she has urged construction firms not to wait for regulations before changing their behaviour. Appearing before MPs during a Housing, Communities and Local Government Committee evidence session this week, Hackitt, who now chairs the industry safety steering group, was asked if she was satisfied the recommendations in her independent review would be implemented in full, following the government’s announcement in December (see publication date).

Hackitt said: “Am I satisfied that the implementation is going to go ahead in full? Yes, I am, and I am very pleased.”

But she added: “It is a matter of some regret to me that it took seven months to be made public because I think we did lose some momentum. As I made clear at the time when the report was first published, one of the real challenges throughout my review was people saying: ‘But will government implement this?’ And it was waiting for that strong signal from government that caused to lose some momentum between May and December. Now we need to get that back.”

Asked if more changes should already have been made to the regulatory system in the 19 months since the Grenfell Tower disaster, Hackitt urged the construction industry not to wait for regulation.

She said: “I recognised at the time of doing the review that the regulatory system would take time to redraft and there is a good deal of work going on.

“I said in my review we did not need to wait for the regulation before people started to change their behaviours. That is what we have been trying to push for and now we have that clear message from government that the regulations are going to be implemented in full there is need for us to underline that. That there really is no reason to wait for the regulation before the behaviour change starts to happen.”

Hackitt explained that her focus as chair of the industry safety steering group was now to ensure that changes in the construction industry were carried through.

So far, the group has had two meetings in September and December 2018. In the second meeting, the group examined how to raise levels of competence in the sector, with the various parties involved telling her they needed more support to do so.

“There is a lot of good work going on in a number of different areas looking at what those competence standards need to be. The challenge comes in trying to make that a coherent cross-industry activity that the rest of us can look at and understand. Thus far there has been far too much time and attention put into setting up some overarching competency body, rather than looking at what does that system need to look like from the user’s perspective,” she said.

The steering group will now meet every two months until June. In February the group will hear from early adopters and the Construction Leadership Council, in April it will examine procurement, and June it will look at product safety. It will then produce a report for secretary of state James Brokenshire reporting on the industry’s progress.

Related Link:

Gerrard N (2018) 'Government adopts all Hackitt's recommendations' *Construction Manager* [online] 18 December. Available at: www.constructionmanagermagazine.com/news/government-adopts-all-hackitts-recommendations/ [accessed 25 February 2019]

Further information is available at:

Gerrard N (2019) 'Hackitt: Government delay has led to 'loss of momentum'' *Construction Manager* [online] 31 January. Available at: www.constructionmanagermagazine.com/news/hackitt-government-delay-has-led-loss-momentum/ [accessed 25 February 2019]

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Building a safer future: an implementation plan

On 18 December 2018, Secretary of State for Communities James Brokenshire announced the creation of a stronger and more effective regulatory framework to improve building safety, implementing the recommendations made by Dame Judith Hackitt following the Grenfell Tower fire. This will mean tougher sanctions for those who disregard residents' safety, more rigorous standards and guidance for those undertaking building work, and a stronger voice for residents.

Building a safer future: an implementation plan, commits the government to a programme of reform which will:

- Take forward all the recommendations in the Hackitt review,
- Create a more effective regulatory and accountability framework,
- Introduce clearer standards and guidance, including a new Standards Committee to advise on construction product and system standards and regulations.
- Put residents at the heart of the new system of building safety, empowering them with more effective routes for engagement and redress.
- Help create culture change and a more responsible building industry, from design, through to construction and management.

The government will establish a Joint Regulators' Group to trial elements of a new regulatory system, bringing existing regulatory bodies together to work with developers and building owners, residents and tenants. This will include; Local Authority Building Control, The National Fire Chiefs Council, the Health & Safety Executive, the Local Government Association which includes the fire and rescue authorities, and others as required.

A full review of fire safety guidance within the building regulations has also been launched. The government has issued a call for evidence and is also inviting views from residents and those who manage buildings about how to improve fire and structural safety.

James Brokenshire MP said; "My plan for stronger, tougher rules will make sure there is no hiding place for those who flout building safety rules. By making people responsible and more accountable for safety, we will create a more rigorous system so residents will always have peace of mind that they are safe in their own homes."

LABC Chief Executive, Paul Overall said: "The Secretary of State has shown leadership by recognising the need for systemic reform of the building safety regime by implementing Dame Judith Hackitt recommendations in full. LABC has pledged to provide full support to the new Joint Regulators Group and we are ready with resources, people and expertise".

Chris Blythe OBE, Chief Executive of the CIOB, said; "There is a lot in this comprehensive document which supports the work the CIOB and their partner organisation – including RICS and RIBA – have been doing. We will now examine and absorb the detail in the document, pull together all the different aspects of quality in construction that we have been working on, and work with government on the next steps to create and implement the framework they want in place to ensure building safety now and in the future."

From the below mentioned link you can also gain access to further information and access to the report in full:

Designing Buildings Wiki (2018) 'Changes to Approved Document B following Hackitt review' [online], last edited 21 December 2018. Further information is available at: www.designingbuildings.co.uk/wiki/Building_a_safer_future:_an_implementation_plan [accessed 25 February 2019]

Related Links:

Designing Buildings Wiki (2018) 'Building a safer future: an implementation plan' [online], last edited 21 December 2018. Further information is available at:

[www.designingbuildings.co.uk/wiki/Changes to Approved Document B following the Hackitt review](http://www.designingbuildings.co.uk/wiki/Changes_to_Approved_Document_B_following_the_Hackitt_review) [accessed 25 February 2019]

GOV.UK (2018) Policy paper: 'Building a safer future: an implementation plan' [GOV.UK > Home > Housing, local and community > Planning and building > Building regulation] GOV.UK [online]. Available at: www.gov.uk/government/publications/building-a-safer-future-an-implementation-plan [accessed 25 February 2019]

GOV.UK, Ministry of Housing, Communities & Local Government (2018) Guidance: 'The Building Safety Programme' [GOV.UK > Home > Housing, local and community > Planning and building > Building regulations] GOV.UK [online], 21 November. Available at: www.gov.uk/guidance/the-building-safety-programme?utm_source=8a4a7b08-6d99-4bf7-aa85-3cb1e66b45da&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 25 February 2019]

Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wiki are increasingly being used by people in the academic community, as an easy source of information about anything and everything. However, citation of Wikipedia may not be considered acceptable, because Wikipedia is not a creditable source.

It is important to note that whilst Wikipedia may be one of the Web's most popular reference sites, it is not classed as a credible resource because anyone can be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.
- An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journal articles and other appropriate and credible resources. What you find in these other sources of information will be more detailed, more precise, and more carefully reasoned than the summary you found in an encyclopaedia. The sources you reference/cite in your work will therefore be these more detailed sources you have used.

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Collection: Grenfell Tower

GOV.UK – [Information relating to the fire at Grenfell Tower](#)

- Information relating to the fire at Grenfell Tower. Contents incl. Announcements; Letters; and **Guidance** incl.

- Advice for building owners: large-scale wall system test,
- Grenfell Recovery Taskforce: terms of reference,
- Explanatory note on large scale cladding systems testing,
- Grenfell Tower fire: handling immigration cases,
- Explanatory note on safety checks and testing,
- HB Bulletin U3/2017: Discretionary Housing Payments to former residents of Grenfell Tower, and
- Grenfell Tower fire: support for people affected (see below).

Government information incl.

- **Support for people affected by the Grenfell Tower fire**

Information about the support available for people affected by the Grenfell Tower fire can be found (as mentioned above) – *Source*: GOV.UK (2017), Department for Communities and Local Government and Home Office, Park of: Grenfell Tower, published: 15 June 2017, last updated: 1 August 2017, Guidance: *Grenfell Tower*

fire: support for people affected [online]. Available at: www.gov.uk/guidance/grenfell-tower-fire-june-2017-support-for-people-affected [accessed 25 February 2019]

- Information about the support available for people affected by the Grenfell Tower fire on 14 June 2017 incl. Urgent advice and support for victims, their friends and families; Updates; Mental health support; Mental health and emotional support for young people; Bereavement support; Physical injuries; Air quality and smoke exposure; Business support advice; Pet support; and How you can help.

Source: GOV.UK (2017), Department for Communities and Local Government, published: 22 June 2017, last updated: 20 July 2017, Collection: *Grenfell Tower* [online]. Available at: www.gov.uk/government/collections/grenfell-tower [accessed 25 February 2019]

Further Related Links:

GOV.UK, Ministry of Housing, Communities and Local Government (2018) Independent report - *Independent Review of Building Regulations and Fire Safety: final report* [online], 17 May. Available at: www.gov.uk/government/publications/independent-review-of-building-regulations-and-fire-safety-final-report [accessed 25 February 2019]

RICS – *Working together, we will right the wrongs of Grenfell* - Clark A, RICS President 2016/17 (2017) *Working together, we will right the wrongs of Grenfell* [online]. Available at: www.rics.org/uk/news/news-insight/comment/working-together-we-will-right-the-wrongs-of-grenfell/ [accessed 25 February 2019]

RICS guidance on existing high-rise buildings fire safety - RICS (2017) *RICS guidance on existing high-rise buildings fire safety* [online]. Available at: www.rics.org/uk/news/news-insight/comment/rics-guidance-on-existing-high-rise-buildings-fire-safety/ [accessed 25 February 2019]

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More funding to help town centres and high streets thrive

Communities across the country can bid for up to £50,000 to help make local areas more attractive for business, High Streets Minister Jake Berry MP **has confirmed**.

The latest round of the £500,000 British Improvement Districts (BIDs) Loan Fund will support business owners and local leaders to set-up a BID, which allow communities to come together to deliver additional local services and upgrade commercial areas for the benefit of business.

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

Related links:

GOV.UK, Ministry of Housing, Communities & Local Government, and Jake Berry MP (2019) Press release: 'More funding to help town centres and high streets thrive' [GOV.UK Home > Business and industry > UK economy > High streets and town centres] GOV.UK [online]. Available at: www.gov.uk/government/news/more-funding-to-help-town-centres-and-high-streets-thrive?utm_source=2af7c82c-e0d4-4cfd-8ed9-149652eeb46a&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 25 February 2019]

Heritage Update e-Bulletin (2019) '**Retail industry experts have called for a community-focused approach to tackling the challenges facing high streets**' [online], Issue **No 385**, 17 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Further information (including the challenges of Wages, Brexit, Consumer spending, Online shopping, Competition, and High-street retailers) can be found at:

Telegraph (2018) '**The Future of Retail**', *The Telegraph* [online]. Available at: www.telegraph.co.uk/business/tips-for-the-future/future-of-retail/#.W78La1ah7EY.mailto [accessed 25 February 2019]

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Future of Retail 2030 – Latest research from CBRE

- The retail industry is rewriting the laws of physics. Change is coming at an ever faster rate each year and 2030 will be upon us before we know it. Explore the world in 2030 and the future of retail via the source web-provided below.

40 Insights From Retail 2030 are looked at in more detail within observations and outcomes for each of the following:

- (1) Enhanced interaction will drive engagement through virtual and augmented reality, holograms and haptic, (2) City centers will be vehicle-free, (3) Open-air retail centers will grow in popularity,
- (4) 3-D printing will serve as invisible inventory, (5) The circular economy will become part of the way people interact with businesses, (6) Specialized stores will re-emerge as a force in retail,
- (7) There will be a resurgence of local markets and experiences, (8) A dynamic shift will occur in how goods are produced, (9) Trust and transparency will become objective – and measurable,
- (10) Physical stores will be reimagined via digital technology, (11) Retailers will focus on understanding customer emotions, (12) Consumers will expect their loyalty to be rewarded,
- (13) Storefronts will become virtual stores after hours, (14) Health-focused offers and products will be much more prominent, (15) Personal enhancement services will require more space,
- (16) Delivery will be when and where you want it – without you even realizing it, (17) The High Street will look very different to today, (18) Customization will become the new loyalty,
- (19) The sharing economy will be commonplace, (20) Curating the offer will be a basic expectation, (21) Returns will be made simple, (22) Delivery tracking information will be precise,
- (23) Flexible lease structures will be far more common, (24) Consumers will be able to experience a purchase before making payment,
- (25) The focus of gas stations globally will shift as they become important mini-logistics hubs and as fueling needs, (26) Smartphones will no longer exist, but mobile commerce will increase,
- (27) Independent stores and food and beverage operators will be more prevalent, (28) The traditional in-store physical point of purchase will disappear,
- (29) Fitting rooms help as opposed to hinder the shopping experience, (30) Wellness establishments will flow in number, (31) Shopping centers will become simply “centers”,
- (32) Retail will be leisure, (33) The power of prediction has enabled decision making to be outsourced to machines, (34) Personal ownership of cars has dramatically reduced,
- (35) Customer experiences are specific not generic, (36) Buying what you want, where and how you want is the norm, (37) Stores have become showrooms and experiential brand centers,
- (38) Pure play is no longer an important part of retail, (39) Robotics and automation will replace many jobs in the retail sector, and (40) Competition for people’s disposable income has increased.

Further information and access to read online or download the above-mentioned research report is available at

CBRE (n.d.) *Future of Retail 2030* [online]. Further information is available at:

<https://www.cbre.com/united%20states/real-estate-services/real-estate-industries/retail-services/retail-innovation-hub/retail-2030> [accessed 25 February 2019]

Related Links:

Access essential **CBRE Research and Reports**, date and insights @ CBRE via the CBRE website, *Research and Reports* [online]. Available at: www.cbre.com/research-and-reports [accessed 25 February 2019], Incl.

CBRE (2018) *Global Real Estate Market Outlook 2018* [online]. Further information is available at: www.cbre.com/research-and-reports/Global-Real-Estate-Market-Outlook-2018 [accessed 25 February 2019]

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Smart Cities District Information Modelling and Management for Energy Reduction – Latest research collaboration from ARUP

ICT is recognised as being a key player against climate change: smart meters, big data, and actuators can efficiently control the energy supply networks (smart thermal and electricity grids).

A District Information Model and Management system for Energy Reduction (DIMMER) was developed by Arup to present real-time energy consumption and production (electricity, heating, cooling), analytics, and **visualisation** on a web-based interface incorporating 3D models and interactive client applications. The objective of DIMMER was to make district energy production and consumption information available using a natural, visual, web-service oriented interface to increase energy efficiency, load balancing, and energy market flexibility. The results from research undertaken by Arup enhanced 3D modelling, visualization, and user interaction technologies by enabling user profiling and feedback to promote energy efficient behaviours. The DIMMER project focused on unlocking the potential of smart technologies. Integration of heterogeneous monitoring systems exploiting middleware technologies was an important aspect of the DIMMER project. Virtual models of districts were created, based on **BIM**, to enable simulation and interactive visualization of energy flows.

The project was validated through case studies in Turin and Manchester. Building user feedback information was correlated with opportunities for energy optimization. Analysis was performed to enable personalized energy tariff plans and their evaluation based on profiled use of energy. A set of client applications were developed for three types of users: energy suppliers, public administrators, and energy and building managers.

Project Impact

The DIMMER project provided many benefits for our client and has impacted on European research. It allowed Facilities Managers to access building information by means of 3D models to enhance building automation and control, in order to enable energy savings.

The project also informed users by making them aware of the importance of their energy-related actions. Variable/personalized energy tariffs were supported and promoted through the project, as well as utility load balancing and optimization of energy efficiency measures. The DIMMER project provided a system for verifying energy saving potential and cost-effectiveness of novel demand-side technologies.

Arup (n.d.) *Smart Cities District Information Modelling and Management for Energy Reduction* [online], London: Arup. Available at: www.arup.com/projects/smart-cities-district-information-modelling-and-management-for-energy-reduction [accessed 25 February 2019]

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House-building boosts construction activity but infrastructure projects fail to materialise

- Surging mortar sales indicate that house-building in Great Britain remained buoyant in 2018 but faltering concrete sales suggest an industry in limbo, waiting for planned infrastructure projects to get going. Latest data from the Mineral Products Association (MPA) show volumes of mortar sales at their highest level since records began in 2004.

The majority of mortar sales take place within six months of house-building projects starting, so increased volumes indicate that new starts also grew during 2018. Year-on-year mortar volumes increased by 14.3%, despite dropping by 1% in the fourth quarter. This trend suggests more cause for optimism than other market indicators such as Office for national Statistics data on brick deliveries, which show just a 1.6% increase in the 12 months to Q3 2018.

Beyond house-building, the wider picture of construction demand for construction mineral products is more muted, reflecting an industry still waiting for major projects to get going. Ready mixed concrete sales volumes fell 1.6% nationally in 2018, weighed down by reduced demand in London, where sales declined by 4.8%. The MPA's analysis shows that the southern regions of England and Wales led asphalt sales in 2018, indicative of roadbuilding and maintenance activity, contributing to a 0.7% growth nationally and offsetting declines in most other regions. Many Highways England projects appear to have been pushed to the back end of the current spending periods.

Aurelie Delannoy, director of economic affairs at the MPA, said: "Like many sectors, construction is awaiting the outcome of Brexit negotiations, but our data shows that Great Britain is still building despite the uncertainty. In particular, strong mortar sales indicate continuing new house-building projects in 2018. Our analysis, based on actual sales and on-the-ground activity rather than sentiment, suggests this has been higher than forecasted by other metrics.

"Elsewhere, the picture for the industry is more muted as we wait for several major infrastructure schemes to make the leap from the planning phase to the construction site. Policymakers and clients need to be mindful

that the critical mineral resources that underpin our built environment don't flow from a tap, and preparations to ensure a ready supply need to be early in a project's lifecycle."

The MPA represents more than 520 companies across the £20bn sector. Its sales data is seasonally adjusted and drawn from the MPA membership which covers 100% of GB cement production, 90% of aggregates, 95% of asphalt and more than 70% of ready mixed and precast concrete production.

The Construction Index (2019) 'House-building boosts construction activity but infrastructure projects fail to materialise', Construction Index [online]. Available at: www.theconstructionindex.co.uk/news/view/house-building-boosts-construction-activity-but-infrastructure-projects-fail-to-materialise [accessed 25 February 2019]

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Falling sales leave house price hopes at a 20-year low 'thanks to Brexit uncertainty', says RICS estate agents

- The slump is expected to continue as buyers are put off by Brexit uncertainty
- Research was conducted by the Royal Institution of Chartered Surveyors
- Office for National Statistics found house prices rose by 2.8% up to November 2018

Hopes for the housing market have hit a 20-year low, a study has found, after sales slowed to a crawl. And surveyors across the country expect the slump to continue as buyers are put off by **Brexit** uncertainty, research by the Royal Institution of Chartered Surveyors (RICS) has found.

RICS recorded a difference of 28 percentage points between the number of surveyors who believe sales volumes will continue to fall and those who expect them to go up – the biggest gap since records began in 1998. It means property professionals in every region except the North West do not expect the market to recover in the near future.

In December, a majority of surveyors reported declining house prices for the fourth month in a row. However, RICS added that it appeared to be Brexit uncertainty that was denting confidence, as expectations were better beyond spring (see publication date).

The report said: 'The twelve-month outlook is a little more upbeat, suggesting that some of the near-term pessimism is linked to the lack of clarity around what form of departure the UK might make from the EU in March 2019.'

The RICS report polls its member estate agents around the UK and is seen as a key barometer for the housing market.

The picture painted by December's 2018 report was far gloomier than simply a slow festive month. RICS reported that new buyer inquiries fell for the fifth month in a row, while there was also less properties coming onto the market, continuing a trend that has last six months.

If prices do fall across all regions except for the North West, as forecast, then it will reverse the upward trend seen in some parts of the UK property market recently. While RICS members reported falling prices in markets in London, the South East and West, East Anglia and the North over the past three months, those in the North West, Midlands, Scotland and Northern Ireland said prices were on the rise.

Further information is available at:

Burton J (2019) 'Outlook for UK housing market is its worst in 20 years, surveyors warn among growing Brexit uncertainty', *Daily Mail* [online], 17 January. Available at: www.dailymail.co.uk/news/article-6600485/Outlook-UK-housing-market-worst-20-years.html [accessed 25 February 2019]

Related Link:

RICS (2018) 'Brexit Deal Agreement: What happens next?', [RICS UK website > Home > News & Insight > Latest News > Brexit > Brexit Deal Agreement: What happens next?] RICS [online], 11 December. Available at: www.rics.org/uk/news-insight/latest-news/brexit/brexit-deal-agreement-what-happens-next/ [accessed 25 February 2019]

Please note: Within *Knowledge Foundations* there is a 'Property and Construction Statistics' section containing further statistics from the Royal Institution of Chartered Surveyors (RICS), Office for National Statistics (ONS) and other organisations.

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Construction no-deal Brexit plan launched

- The Construction Leadership Council (CLC) has published a contingency planning report, providing construction firms with advice on what to do in the event of a no-deal Brexit.

The CLC said the plan had been published in response to uncertainty around Brexit and warned that it could still be damaging for construction, which employs more than 225,000 EU citizens, despite the fact the government has said all those currently living and working in the UK will still be able to continue to live and work here following 29 March 2019.

The recommendations set out in the report are backed by over 100 industry leaders. They have been established by the CLC Skills Workstream to ensure the construction sector faces as little disruption as possible in the event of a no-deal Brexit.

The recommendations of the report are:

- The construction industry should proactively provide information to its EU employees about how to secure 'settled' or 'pre-settled status' in the UK, as well as helping to provide any additional evidence that may be requested by the Home Office for the application.
- The CLC and industry will promote the government's guidance to workers in the sector more widely, including introducing information centres at some major UK projects sites.
- Government and industry to work together to ensure that all the eligible EU citizens currently living in the UK and working in the construction sector can register for settled or pre-settled status.

The CLC is calling on the government to review the proposed future migration system to ensure that it is fit for purpose for construction and to avoid dramatic labour shortage in the construction sector. It has urged the government to:

- Reduce the required qualification level for a skilled worker to NVQ Level 2 to reflect the industry skilled status;
- Set the salary threshold for a skilled worker at the median level, which is significantly below the £30,000 currently proposed;
- Adjust short term worker visa to 24 months to allow the industry to meet its short-term workforce requirements;
- Ensure in the event of a 'no-deal' Brexit the mutual recognition of qualification across the EU and UK is prioritized.

Further information is available at:

Source: *Construction Manager* (2019) 'Construction no-deal Brexit plan launched', *Construction Manager* [online], 22 February. Available at: www.constructionmanagemagazine.com/news/construction-no-deal-brexit-plan-launched/ [accessed 25 February 2019]

Related Links

Gerrard N (2019) 'Ardmore sounds Brexit warning amid £113m turnover drop', *Construction Manager* [online], 11 February. Available at: www.constructionmanagemagazine.com/news/ardmore-sounds-brexit-warning-amid-113m-turnover-d/ [accessed 25 February 2019]

Gerrard N (2019) 'Construction output forecast slashed amid Brexit uncertainty', *Construction Manager* [online], 20 January. Available at: www.constructionmanagemagazine.com/news/output-forecast-downgraded-amid-brexit-uncertainty/ [accessed 25 February 2019]

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Brexit: Jargon-busting guide to the key terms

- Confused by all the Brexit jargon in the news? Provided via the source web-link below is a glossary to demystify commonly used EU-related terms.

12 Key terms are also explained in more detail and include:

(1) No deal, (2) WTO rules, (3) Transition period, (4) Article 50, (5) Another referendum, (6) Single market, (7) Customs union, (8) Free-trade agreement, (9) Withdrawal agreement, (10) Backstop, (11) Free movement, and (12) Divorce bill

Related Links:

Brexit: [All you need to know about the UK leaving the EU](http://www.bbc.co.uk/news/uk-politics-32810887) [online]. Further information is available at: www.bbc.co.uk/news/uk-politics-32810887 [accessed 25 February 2019]

[Brexit timeline: UK's department from the EU](#) [online]. Further information is available at:

www.bbc.co.uk/news/uk-politics-43546199 [accessed 25 February 2019]

Further information on this and 'Brexit' in general are available at:

BBC News (2019) 'Brexit: Jargon-busting guide to the key terms', BBC News UK [online]. Available at:

www.bbc.co.uk/news/uk-43470987 [accessed 25 February 2019]

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Unlocking construction's digital future: A skills plan for industry

- Digital technology has the potential to transform construction – but only if the sector is equipped with the right skills and knowledge.

This report shows how modern technologies can raise productivity, increase efficiency and help attract people to the sector. Without widespread digital adoption, construction risks being marginalised and losing a generation of new talent to other sectors.

The report found that:

- Digital construction is a catch-all term understood to mean different things by different people. This lack of consensus is part of the problem: industry should be clear on what digital construction means, how best to use it and what skills employees have – and will need.
- Much of technology being used is not at the cutting edge of what is available. Innovative technology – if used at all – is generally limited to small pilots or trials. Sharing best practice will help industry evolve understanding of the value of digital and the skills and training needed.
- Data and its effective collection, communication and management are central to digital transformation.
- Technology-specific skills aren't the problem – the broader skills and competencies at various levels need to be addressed.
- Following the green paper's findings, CITB is committing to a programme of support, including targeted funding, to help meet the skills challenge to enable sector digitalisation.

For further information, access to the reports and a video that highlights digital best practice in the industry, please visit

Source: CITB (2018) 'Unlocking construction's digital future: A skills plan for industry' [online]. Available at: www.citb.co.uk/research-and-insight/innovation-technology/unlocking-constructions-digital-future/ [accessed 25 February 2019]

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Concerns for Skills Shortages in the 21st Century: [A Review into the Construction Industry, Australia](#)

The Australian Construction Industry is now facing skills shortages in all trades. As an industry focused on the skills of its workforce, there is now concern the Australian standard in quality, workmanship, and productivity will inhibit both at national and international level.

This research paper addresses the underlying, influential factors concerning skills shortages in the Australian construction industry. The influential factors addressed include funding, training statistics, employer expectations, financial limitations, Industrial Relations and immigration. Given the reference to skills shortages within the industry, and documented in related literature, if skills shortages are to continue to exist, their effect will impact upon the overall performance of construction companies throughout Australia.

UTS ePRESS is Open Access and therefore to access this article in full, please visit -

Source: Watson M (2007) 'Concerns for Skills Shortages in the 21st Century: A Review into the Construction Industry, Australia', *Construction Economics and Building*, Vol 7 (1) [online], UTS ePress. Available at: <http://epress.lib.uts.edu.au/journals/index.php/AJCEB/article/view/2977> [accessed 25 February 2019]



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Related Links:

Parker K, Head of Business Improvement at Town and Country Housing Group (2018) '**Mind the gap!** – **managing the skills gap in the construction sector**', LinkedIn [online]. Available at: www.linkedin.com/pulse/mind-gap-managing-skills-construction-sector-katherine-parker/ [accessed 25 February 2019]

Deloitte (2017) '**Soft skills for business success**' [online]. Available at: www2.deloitte.com/au/en/pages/economics/articles/soft-skills-business-success.html [accessed 25 February 2019]

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RICS Research

Within the Royal Institution of Chartered Surveyors (RICS) Research they recognise the huge importance of property, land, construction and the built environment. Through their market surveys and research, they aim to advance the thinking of the professional and raise the profile of our industry.

RICS Research cover topical issues in land, real-estate, construction and infrastructure in order to promote understanding of the profession, aid knowledge transfer and stimulate debate.

As of **18 February 2019**, the topics covered include.

- **Residential property** – incl. International Evidence Review on Housing Taxation
- **Facilities & management** – incl. Big data: a new revolution in the UK facilities management sector
- **Environment** – incl. Cities, health and well-being
- **Rural** – incl. Global Trends in Data Capture and Management
- **Property management** – incl. The implications of extending permitted development rights in England
- **Property technology** – incl. BIM for Project Managers
- **Planning & development** – incl. Leadership in the UK rail industry
- **Quantity Surveying & construction** – incl. Impact of extending developments rights to office-to-residential change
- **Sustainability** – incl. Changing priorities in investor decision-making: the sustainability agenda
- **Commercial property** – incl. Perspectives on Global Real Estate Investment
- **Infrastructure** – incl. Valuing Unregistered Land
- **Valuations** – incl. The Future of Valuations

To access and download the above-mentioned reports, please visit

Source: RICS website > Home > News & Insight > Research (2019) [online]. Available at: www.rics.org/uk/news-insight/research/ [accessed 25 February 2019]

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Market forecasts – Housing Market forecast: 2019

To access and download **Analysis and discussion papers**, please visit

Source: RICS website > Home > News & Insight > Research > Market surveys > **Analysis and discussion papers**
Incl.

RICS (2019) *Housing Market forecast: 2019* [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/analysis-and-discussion-papers/ [accessed 22 February 2019]

- Overall sales volumes to weaken by around 5% in 2019
- National house price growth likely to come to a standstill but supply shortage should negate outright falls
- Rental growth to accelerate slightly during 2019 due to declining availability of homes for let

The UK residential market has continued to struggle against several well-established obstacles over the past year. Affordability issues, a lack of stock, political uncertainty and the prospect of further interest rate rises have all been factors seemingly weighing on activity to varying degrees. Sentiment has remained relatively subdued as a result, with new buyer demand tailing-off gradually throughout much of 2018. Sales volumes have also weakened during the past twelve months, while house price inflation has continued to cool at the national level.

The index is based on data in 9 domains Incl.

People

- 1) Education and Learning** – The availability of good, accessible, affordable services to help all ages make the most of education and learning opportunities
- 2) Health** – Access to good quality public, voluntary, and social care services that promote physical and mental health in the community
- 3) Economy, work and employment** – Services and infrastructure in place to promote a sustainable, ethical, inclusive economy that meets the needs of local people

Place

- 4) Culture, heritage and leisure** – Access to affordable and inclusive cultural and leisure activities, services and amenities which celebrate the diverse histories of people in the community
- 5) Transport, mobility and connectivity** – Access to affordable and sustainable transport and communication networks for everyone, especially those with disabilities
- 6) Housing, space and environment** – Affordable, secure, quality housing, a safe and clean surrounding environment, and well-kept, accessible and inclusive public spaces for people of all ages.

Relationships

- 7) Relationships and trust** – The state of family, social and community relationship and the impact of any breakdown in trust on issues like crime.
- 8) Equality** – Equal and fair opportunities for everyone, regardless of ethnicity, religion, colour, age, ability, sexuality, gender, income etc. Services and infrastructure in place to promote equality, equity and fairness
- 9) Voice and participation** – Democratic governance and decision-making mechanisms in place to allow people to express themselves and take either individual or collective action to improve the local community and beyond.

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

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Management: [How Laing O’Rourke tackles mental health](#)

- Addressing mental health issues in construction mean reaching out to a wide workforce demographic Male site workers in construction are three times more likely to commit suicide than the average UK male, according to Office of National Statistics data.

With 8,000 employees, Laing O’Rourke is one of the UK’s largest construction employers and they take the responsibility of workforce wellbeing seriously and invited the challenge and interrogation of their practices from Mind by taking part in the charity’s Workplace Wellbeing Index. In 2015, Laing O’Rourke tried to engage employees in dealing with specific areas of mental wellbeing and help overturn the stigma around mental health issues and illness. Last year (see publication date), they were awarded Silver in Mind’s Wellbeing Index, which demonstrates the impact they are making.

Also, in 2018, they piloted a six-month lifestyle change to encourage adoption of a more physically and mentally healthy lifestyle across our workforce. The 320 people who took part together lost 118 stone, saw improved sleep and energy, had better focus and concentration and an increased understanding of nutrition.

The aim for 2019 is to support their people to build resilience and capacity so they can manage the mental and physical demands of their work environment.

The strategy has always been based on prevention and intervention. The most significant challenge they had to address was the diversity of employees, who ranged from 16 to 60+ years old and who required varied tools for communication.

Apps and online engagement – At the start of their campaign, they realised not everyone wanted to engage in the channels they offered. They needed to ask “What can they provide that the workforce actually wants?” and this has led to a multi-channel approach. The younger generation don’t want to pick up a phone or meet face to face, so alongside the traditional channels they set up apps and online engagement tools; since implementation

they saw engagement increase by 15%. While their support services offer professional assistance, they also have 127 mental health “champions” across the business. As well as benefiting the recipients, their champions have felt a boost to their own confidence and increased value in the work they do. This engagement is helping to build a community across the workforce and bringing the topic of mental health into the open and tackling the stigma around it.

Training in how to spot problems – Creating an environment where people can talk openly is a significant step forward. Results from the Mind Survey in 2017 showed that the way line managers react to mental health issues can be a barrier. In response, they have developed line manager training in how to spot problems and manage them effectively. Since they introduced this in 2017, they have trained 400 managers in how to spot signs and symptoms and support their people through mental health issues.

Laing O’Rourke’s ambition is to change our internal culture and be regarded as a leader in the industry in tackling mental health issues. They pride themselves on their support services that include mental health literacy, the provision of mindfulness and resilience training. They are also looking to change their physical environment by transforming what is quite a traditional workplace into something that stimulates creativity and innovation. Three years ago, they had a 3% usage of their confidential counselling line. In 18 months, this rose to 12%. This summer (see publication date), in their employee engagement survey, 81% of their employees agreed their line manager would take action to support their wellbeing. Their goal is to create an environment that allows everyone to bring the best version of themselves to work.

Martin S (2019) ‘How Laing O’Rourke tackles mental health’ [online]. Available at:

www.constructionmanagermagazine.com/management/how-laing-orourke-tackles-mental-health/ [accessed 25 February 2019]

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Related links incl.:

Warne J (2019) ‘Management – **What construction can learn from mental health in rugby**’, *Construction Manager* [online], 10 January. Available at: www.constructionmanagermagazine.com/management/rugby-club-moves-tackle-mental-health-stigma/ [accessed 25 February 2019]

SCN – *Scottish Construction New* (2018) ‘**New app launched to support mental health of construction workers**’ [online]. Available at: www.scottishconstructionnow.com/article/new-app-launched-to-support-mental-health-of-construction-workers [accessed 25 February 2019]

Gerrard N (2018) ‘**Laing O’Rourke and Skanska in occupational health pilot**’, *Construction Manager* [online], 5 October. Available at: www.constructionmanagermagazine.com/news/laing-orourke-skanska-and-morgan-sindall-new-occup/ [accessed 25 February 2019]

RICS Research (2018), *Cities, health and wellbeing*. [RICS website > Home > News & Insight > Research > Cities, health and well-being]. RICS [online]. Available at: www.rics.org/uk/news-insight/research/insights/cities-health-and-well-being/ [accessed 25 February 2019]

Kirkup A (2018) ‘**Tackling mental health in the workplace**’ [online], 2 February 2018. Further information is available at: www.ice.org.uk/news-and-insight/the-civil-engineer/february-2018/tackling-mental-health-in-the-workplace [accessed 25 February 2019]

Buckland D (2017) ‘**Building up wellbeing in construction**’ [online], *Future of Construction*. Available at: <https://futureofconstruction.org/> [accessed 25 February 2019]

Designing Buildings.co.uk Wiki, (2017) ‘**Building up wellbeing in construction**’ [online], last edited 29 August 2017. Further information is available at: www.designingbuildings.co.uk/wiki/Home_and www.designingbuildings.co.uk/wiki/Building_up_wellbeing_in_construction [accessed 25 February 2019]

Sharman J, NBS (2017), ‘**Mental health and the construction industry**’ [online]. Available via the Construction Information Service (CIS) Short Article 05/2017 (accessed via the VLE e-Library, Athens, and IHS Information Services)

Cameron, C., (2017), ‘**Mind matters: Protecting the wellbeing of your workforce by raising awareness of mental health**’ [online], and available at: www.builderandengineer.co.uk/feature/mind-matters-protect-wellbeing-your-workforce-raising-awareness-mental-health [accessed 26 November 2017], *Building&Engineer*, 7 March.

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Revaluing Parks and Green Spaces – [Measuring their economic and wellbeing](#)

Revaluing Parks and Green Spaces: Measuring their economic and wellbeing value to individuals is research conducted in line with HM Treasury best practice in valuing non-market goods. This research provides a robust economic valuation of parks and green spaces in the UK as well as valuing improvements in health and wellbeing associated with their frequent use. It is the first study on parks and green spaces to apply welfare weighting methodology allowing for more informed evidence-based policy decisions.

Headline Findings

- **The Total Economic Value to an individual is £30.24 per year** (£2.52 per month), and includes benefits gained from using their local park of green space and non-use benefits such as preservation of parks for future generations.
- **The Wellbeing Value associated with the frequent use of local parks and green spaces is worth £34.2 billion per year** to the entire UK adult population
- **Parks and green spaces are estimated to save the NHS around £111 million per year** based solely on a reduction in GP visits and excluding any additional savings from prescribing or referrals

To access and download the report, visit

Source: Watt E, Lawton Dr. R [et al.] (2018) *Revaluing Parks and Green Spaces – Measuring their economic and wellbeing* [online], London: Fields in Trust. Available at: www.fieldsintrust.org/research [accessed 25 February 2019]

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[Lendlease reports gender pay gap progress](#)

- Lendlease is on a drive to recruit more women as it strives to eliminate its gender pay gap.

Lendlease’s 2018 gender pay gap report reveals that the pay gap in its construction business has reduced from 30.4% to 29.6% in the past year.

Lendlease’s workforce is now 67% men and 33% women, up from 29% female last year (see publication date).

Two years ago, Lendlease introduced a 50:50 gender target for graduate recruitment and as a result has increased the number of female graduates from 38% in 2015 to 62% in 2018.

Between 2016 and 2018, it has increased female hires – across all grades – from 29% to 47%.

The ratio of women in executive roles has gone from 24% to 31% in the last two years.

		2018		2017	
		Mean	Median	Mean	Median
Lendlease Construction	Hourly fixed pay gap	29.6%	35.8%	30.4%	33.0%
	Bonus gap	64.2%	49.2%	65.4%	51.4%
Lendlease UK	Hourly fixed pay gap	17.4%	26.6%	19.2%	26.5%
	Bonus gap	44.5%	39.1%	46.2%	39.3%

Source: The Construction Index (2018), 'Lendlease reports gender pay gap progress', *The Construction Index* [online]. Available at: www.theconstructionindex.co.uk/news/view/lendlease-reports-gender-pay-gap-progress [accessed 25 February 2019].

Lendlease Europe chief executive Dan Labbad said: “Last year the gap in our Construction business was 30.4% and we’re now at 29.6%. A small change, however, we currently employ 14.6% women in core Construction roles – 3.6% higher than participants of the Paydata Building & Civil Engineering survey – a fact we’re proud of. And, even more promisingly, the overall average gender pay gap for our UK business is 17.4%. This reflects an improvement of 2% when compared with 2017.

“Of course, we recognise that we have a long way to go. We need to continue to be proactive and execute a long-term strategy to close the gender pay gap.”

He added: “We need more women in senior roles at Lendlease. Of course, recruiting, hiring, training, and promoting women at this level isn’t something we can achieve overnight, but we are committed to making it happen.”

Further information is available via

The Construction Index (2018), 'Lendlease reports gender pay gap progress', *The Construction Index* [online]. Available at: www.theconstructionindex.co.uk/news/view/lendlease-reports-gender-pay-gap-progress [accessed 25 February 2019].

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Microsoft to pump \$500m into affordable housing

- In a bid to tackle a housing crisis which the success of companies like itself helped create, software behemoth Microsoft will invest half a billion dollars in affordable homes provision in the Puget Sound region of Washington State, where its headquarters are.

On Wednesday (16 January) the company said housing costs have risen across the region, which includes Seattle, Microsoft's home of Redmond, and nine smaller cities, hitting people on lower and middle incomes.

Thanks to the success of Microsoft, Amazon, and other tech companies in the area, Puget Sound has become the sixth most expensive region in the country, where a 21% increase in jobs since 2011 has been met with only a 13% increase in housing units, Microsoft said after an eight-month probe into the issue.

While technical staff of these firms may enjoy housing security, teachers, nurses, first responders and other workers face long commutes and homelessness, Microsoft's president Brad Smith and chief financial officer Amy Hood wrote in a blog post, noting that Microsoft set up in the city in 1979 with just 30 employees.

"If we're going to make progress, we'll all need to work together as a community," they said.

"Ultimately, a healthy business needs to be part of a healthy community. And a health community must have housing within the economic reach of every part of the community, including the many dedicated people who provide the vital service on which we all rely."

Most of the cash will be disbursed over the next three years in the form of loans worth \$475m and a \$25m grant to tackle homelessness.

Microsoft will lend \$225m at below market rate returns for preserving and developing new middle-income housing on King County's Eastside, and \$250m at market rate returns to support low-income housing across the King County region.

Twenty-five million dollars in "philanthropic grants" are on offer to address homelessness. Two initial commitments include \$5m for local non-profits to prevent people from becoming homeless by providing legal representation, helping with back rent and offering caseworker help; and \$5m to help the city of Seattle, and Kind County, to create a "consolidated entity" to address homelessness.

Accompanying Microsoft's announcement was a joint declaration from the mayors of nine of the largest cities around Seattle to "take steps" to increase affordable housing capacity.

Mayors of Auburn, Bellevue, Federal Way, Issaquah, Kent, Kirkland, Redmond, Renton and Sammamish will "consider changes" in zoning to increase the pipeline of housing in selected areas, providing desirable public land near transit locations, addressing permitting processes and fees, and creating tax incentives for developers.

The *New York Times* called Microsoft's initiative the "most ambitious effort" by a tech company to address inequality and notes that it comes less than a year after Amazon resisted proposals for a new tax in Seattle on big companies to build affordable housing and fund services for the homeless.

Further information is available at:

Source: GCR Staff (2019) 'Microsoft to pump \$500m into affordable housing', *Global Construction Review* [online]. Available at: www.globalconstructionreview.com/news/microsoft-pump-500m-affordable-housing/ [accessed 25 February 2019]

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New HMO rules came into effect in England on 1 October 2018

- New regulations to bring mandatory licensing to all multi-occupied properties where there are five or more people, forming two or more separate households.

The main changes are:

- Altered definition of an HMO under the Housing Act 2004: for licensing purposes, from 1/10, an HMO will be any property occupied by five or more people, forming two or more separate households.

This contrasts with the existing HMO definition which is a property occupied by 5 or more people, forming two or more separate households and comprising three or more storeys.

- If you already have an HMO license under the current definition, this will continue to be valid until the licence expiration date (usually 5 years from date of issue). After the expiration you will need to apply for a new license as usual.
- If you currently let an HMO which didn't previously require licensing but will do after the new order comes into effect later in the year (see publication date), then you will need to apply for a license through the local council.
- There is an important exception: if the property is in a purpose-built block of flats comprising 3 or more units
- Regulation 2 introduces minimum room standards for those properties falling within the scope of mandatory licensing

The proposals will prohibit landlords from letting rooms to a single adult where the usable floor space is less than 6.51sqm and 10.22sqm for a room occupied by two adults. It will be mandatory for an HMO licence to include a condition that states the maximum number of persons who may occupy each specific room in a property as sleeping accommodation.

In breach of licence condition

Landlords will have to stop letting rooms that fall below the nationally prescribed standard. If they do not, then they will be in breach of licence condition and could be prosecuted by the local authority or alternatively receive a civil penalty under the new Housing and Planning Act 2016 provisions. Rooms below the prescribed standard that have previously been found suitable for occupation will no longer be capable of being let separately as sleeping accommodation by any person aged over 10 (4.64 for children under 10).

Rooms under 4.64sqm cannot be used for sleeping. Floor area under a height standard of 1.5m is not included in the calculation.

- In the event of a breach of the minimum room size, new licenses granted after 1st October 2018 will contain a condition giving landlords 18 months to act.
- Note that landlords will also need to comply with the local council's HMO licensing standards, which may involve making changes to comply with minimum room sizes, amenity standards (kitchen facilities, number of bathrooms etc.)
- Another condition of the licences will relate to refuse disposal and storage facilities, with minimum numbers of bins and storage facilities for waste expected to be set out by the government.

We welcome the upgrading of HMO standards but would caution that the introduction of minimum room sizing in particular, risks reducing capacity with potential knock-on effects on rent rises, as business plans are impacted.

The Licensing of Houses in Multiple Occupation (Prescribed Description) (England) Order 2018 SI 2018/221 & The Licensing of Houses in Multiple Occupation (Mandatory Conditions of Licenses) (England) Regulations 2018 SI 2018/616 can be read on **Gov.UK**

For further information on this, please visit:

GOV.UK, Ministry of Housing, Communities and Local Government (2018) Guidance: *Houses in multiple occupation and residential property licensing reform: guidance for local housing authorities*, [online], 20 June.

Available at: www.gov.uk/government/publications/houses-in-multiple-occupation-and-residential-property-licensing-reform-guidance-for-local-housing-authorities [accessed 25 February 2019]

Source: RICS (2018), 'New HMO rules came into effect in England on 1 October 2018' [**RICS website > Home > News & Insight > Latest news > New HMO rules come into effect in England on 1 October 2018**] RICS [online], 8 August. Available at: www.rics.org/uk/news-insight/latest-news/news-opinion/new-hmo-rules-come-into-effect-in-england-on-1-october-2018/ [accessed 25 February 2019].

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[BCIS Schedules of rates updated for 2019](#)

- The latest BCIS review of construction resource costs shows that costs have generally risen between 1.5% to 3.5% over the last 12 months, however the picture is not the same across all trades.

The costs of woodwork, plumbing and mechanical and electrical installations have risen by an average of 6% in the same period. This underlines the importance of using the most up-to-date datasets to ensure that your estimates are accurate.

The BCIS resource datasets have been completely revised and updated for 2019 to include all recent changes to wage rates, plant and materials prices, revisions to adjustment factors and a range of new items. Pricing information is based on 2nd quarter 2018. They are published in the following data sets:

- BCIS Comprehensive majors works 2019 (36th edition)
- BCIS Comprehensive minor works 2019 (36th edition)
- BCIS Alterations & refurbishment 2019 (24th edition)

The BCIS major works estimating dataset focuses predominantly on large 'new build' projects with a value around £3.5 million, reflecting the economies of scale found in these types of scheme. The BCIS minor works estimating dataset focuses on small to medium sized 'new build' projects, around £1 million in value, reflecting the increase in costs brought about by reduced output, lower discounts, and increased carriage and supervision.

Additions to the datasets

Several items have been added to both datasets, including:

- New items in the roofing, gutter and flashings section
- Extended sections on lighting and luminaires
- Ductwork specialist rates now include detailed build-ups

The Alterations & refurbishment dataset focuses on small to medium sized projects, generally within an existing building, and reflects the increase in costs associated with more difficult access and the possibility of working in occupied premises.

New additions to the 2019 dataset include:

- An expanded section on lighting and luminaires and
- New items added to the roofing, gutter and flashings section

The online version of the 2019 datasets (Schedules of rates online) is easily accessible via computer, netbook or tablet. It allows subscribers (of which UCEM is) to create, save and reuse abstracts of an estimate or schedule of rates and has the option of adjusting rates for location and base date, as well as providing rate breakdowns.

Source: RICS (2018), 'BCIS Schedules of rates updated for 2019' [RICS website > Home > News & Insight > Latest news > BCIS Schedules of rates updated for 2019] RICS [online], 8 August. Available at: www.rics.org/uk/news-insight/latest-news/news-opinion/bcis-schedules-of-rates-updated-for-2019/ [accessed 25 February 2019].

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Selecting benchmark building prices

- The Building Cost and Information Service (BCIS) average prices section provides a statistical analysis of the costs projects, which can be used to provide a budget for a project. The costs can be adjusted for location and date.

Care should be taken in selecting an appropriate figure; the factors to consider are:

- The likely design and specification expectations of the clients – are they typical for the type of building or are they likely to be more or less complex?
- The current market in the locality – are the existence of other large projects likely to influence the demand and supply of labour and materials?
- The constraints of the site – will the physical characteristics of a particular site, its size, accessibility and topography influence the design or ease of construction.
- Any anticipated difference between the main contractor's preliminaries, overheads and profit for the current scheme compared with an average scheme.

The statistics presented for a building type may include mean, media, upper and lower quantiles, deciles and overall range. A scatter diagram and histogram can also be found where the sample is at least 10.

While an average figure is provided by the mean or median, it will usually be more appropriate to pick a cost from within the range, to reflect the project's likely position within the distribution of costs for a building type, by considering the factors listed above.

A **video** showing how to use the BCIS average prices sections is also available via - RICS (2018) 'BCIS – Guide to project analyses', YouTube [video]. Available at: www.youtube.com/watch?v=IFkipnh10Qs&utm_source=ricsmembership&utm_medium=email&utm_campaign=bcisprojectanalysisvideo [accessed 25 February 2019]

Please note: UCEM Staff and Students have access to the **Building Cost Information Service (BCIS)** via the **VLE e-Library** and within **section 5 – Industry Information Sources**.

RICS (2018) BCIS Construction [RICS website > Home > Products > Data Products > BCIS Construction] RICS [online]. Available at: www.rics.org/uk/products/data-products/bcis-construction/ [accessed 25 February 2019]
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Access to The Joseph Rowntree Foundation’s latest research reports and comments relating to policy and practice

- The Joseph Rowntree Foundation is an independent organisation working to inspire social change through research, policy and practice.

Their vision is for a prosperous UK without poverty where everyone can thrive and contribute. To achieve this, they work in partnership with private, public and voluntary sectors, as well as with individuals and communities. Using evidence and experience, they search for the underlying causes of social problems and demonstrate practical solutions in order to influence lasting change.

They **search** out the underlying causes of poverty and disadvantage and identify solutions – through research and learning from experience.

They **demonstrate** solutions – developing and running services, managing land and buildings, and supporting innovation.

They aim to **influence** positive and lasting change – publishing and promoting evidence and bringing people together to share ideas.

Their website is broken down into

Cities, Towns and Neighbourhoods covering:	Housing covering:	Income and Benefits covering:	People covering:	Society covering:	& Work covering:
Cities	Affordable housing	Debt	Active citizenship	Ageing society	Employment
Climate change	Care homes	Food	Ageing population	Austerity	Equality
Devolution	Home ownership	Living standards	Carers	Civic participation	Forced labour
Economic Development and Local Growth	Homelessness	Living wage	Child poverty	Crime / Anti-social behaviour	Labour markets
Flooding	Housing regeneration	Minimum income standards	Children	Faith and religion	Low pay
Loneliness	Housing market	Pay	Dementia	Government	Retirement
Neighbourhoods	Housing providers	Pensions	Disabled people	Immigration	Skills
Planning	Private rented sector	Personal Finance	Divorce / Family breakdown	Local government	Volunteering
Public Spaces	Retirement housing	Tax	Drugs / Alcohol	Localism	Working with employers
Regeneration	Social housing	Unemployment	Education	Riots	
Services and local government	Tenant participation	Universal credit	Ethnicity	Slavery	

Transport	Tenants		Gender	Social exclusion	
			Independent living	Voluntary sector	
			Lone parents		
			Mental health		
			Migration		
			Older people		
			Sexuality		
			Social care		
			Young people		

Joseph Rowntree Foundation website, About us [online]. Further information is available at: www.jrf.org.uk/ [accessed 25 February 2019]

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UK Poverty 2018 – [The JRF Analysis Unit](#)

- This annual report examines the nature and scale of UK poverty and the effect of the UK poverty rate on the people gripped by it.

The report examines how UK poverty rates have changed in our society over the last few years, as well as over the longer term. The research focuses particularly on changes to poverty among children and workers, as well as giving an overview of trends among pensioners and other groups.

This research reveals that, in our society:

- Child poverty has been rising since 2011/12;
- 4.1 million children are living in poverty, a rise of 500,000 in the last five years;
- Four million workers are living in poverty – a rise of more than half a million over five years; and
- In-work poverty has been rising even faster than employment, driven almost entirely by increasing poverty among working parents.

Source: Barnard H (2019) 'UK Poverty 2018' [online], 4 December 2018. Available at: www.jrf.org.uk/report/uk-poverty-2018 [accessed 25 February 2019].

JRF Housing Related Links:

Soodeen F (2018) 'Social Housing Green Paper: JRF and JRHT response' [online], 13 November 2018. Available at: www.jrf.org.uk/report/social-housing-green-paper-jrf-and-jrht-response [accessed 25 February 2019].

Barnard H, Heykoop L, and Kumar A (2018) 'How could Brexit affect poverty in the UK?' [online], 6 September 2018. Available at: www.jrf.org.uk/report/how-could-brexit-affect-poverty-uk [accessed 25 February 2019].

N.B. Part of 'Solving poverty after Brexit'

Wright S, and Masters C (2018) 'Social Housing Green Paper: failing families on low income' [online], 14 August 2018. Available at: www.jrf.org.uk/press/social-housing-green-paper-failing-families-low-incomes [accessed 25 February 2019]

Brook P (2018) 'Life on a housing treadmill: struggling to make a home on a low income' [online], 30th April, JRF. Available at: www.jrf.org.uk/blog/life-housing-treadmill-struggling-make-home-low-income [accessed 25 February 2019]

Barnard H (2018) 'People on low incomes bear brunt of housing crisis: it's time to act' [online], 26 June 2018. Available at: www.jrf.org.uk/blog/people-low-incomes-bear-brunt-housing-crisis-its-time-act [accessed 25 February 2019]

Altair Consulting (2018) 'Housing and life experiences: policy development' [online], 30 April 2018. Available at: www.jrf.org.uk/report/housing-and-life-experiences-policy-development [accessed 25 February 2019]

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Family sharing – a minimum income standard for people in their 20s living with parents – Latest research from Loughborough University and funded by Joseph Rowntree Foundation (JRF)

- Cost of living almost doubles for young adults who fly the nest: New research examines the minimum income requirements of 20-somethings living at home

- Young adults' living costs can be 45% lower living with parents than if they rented a flat
- Cost of having a son or daughter at home adds about £24-a-week to parents' expenses
- Minimum cost of living for a single person and their parents is £135-a-week less overall than if both lived separately
- Two-third of single 20-somethings still live with parents
- Living with parents has become a 'normal' expectation for 20 to 30-year-olds
- The desire to save money for renting or buying is the main motivation for 'living at home'

A growing number of families in which adults aged 20 to 30 live with their parents are having to negotiate new ways of pooling their resources, according to pioneering research investigating how these families live and the costs that they face.

Loughborough University's Centre for Research in Social Policy investigated what families such as these need as a minimum to live on, and what determines their living standards.

The research, *Family sharing – a minimum income standard for people in their 20s living with parents*, talked to both young adults and parents living in such households, discussing present-day norms of how they share living arrangements and expenses.

For further information and access to the research in full, please visit

Loughborough University (2019) *Family sharing – a minimum income standard for people in their 20s living with parents* [online]. Available at: <https://www.lboro.ac.uk/news-events/news/2019/january/cost-of-living-with-parents/> [accessed 22 February 2019]

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Designing a Shared Prosperity Fund

- (Part of **Solving poverty after Brexit**)

This report presents research on how the Government's proposed UK Shared Prosperity Fund can invest in places that have been left behind by economic change, putting into practice the idea of 'inclusive growth'.

What you need to know

- After Brexit, the UK will lose access to £2.4 billion from European Union (EU) Structural Funds (including associated match funding).
- The UK Government has proposed a new fund – the UK Shared Prosperity Fund – to replace these funds, using money returned from the EU.
- The UK Share Prosperity Fund should be targeted, flexible, devolved and designed to promote inclusive growth.

Source: Tinker R (2018) 'Designing a Share Prosperity Fund', Part of 'Solving poverty after Brexit' [online], 8 October 2018. Available at: www.jrf.org.uk/report/designing-shared-prosperity-fund [accessed 25 February 2019]

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Home Builders Federation (HBF) Reports and Housing Calculator

The impact of the housing crisis is now being truly understood at both local and national level with considerable focus now on political parties' policies for addressing the chronic shortage of housing that has developed over several decades.

HBF Reports and Housing Calculator provided within the below mentioned website incl.

- Maximising the private sector's contribution to solving our housing undersupply crisis – Following Greg Clark MP's appointment as Secretary of State for Communities and Local Government, HBF submitted a policy paper, *Maximising the private sector's contribution to solving our housing undersupply crisis* which outlined a series of recommendations and areas requiring immediate attention by the new Secretary of State (see below mentioned publication date).
- Solving England's housing supply crisis – To read a more in-depth overview of the conditions required to dramatically increase the level of private house building and HBF's suggestions on how to achieve this.
- Economic Footprint of House Building in the UK – To help inform our activity at the General Election and beyond, in early 2015 HBF commissioned Nathaniel Lichfield & Partners to conduct an extensive analysis of the economic and social benefits associated with house building, and the
- **Housing Calculator** – Estimate the potential benefits of increasing house building.

Home Builders Federation (HBF), Policy and Activities, HBF Reports and Publications [online]. Further information is available at: www.hbf.co.uk/reports/ [accessed 25 February 2019]

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UK Property Research – Savills latest research incl.

Valuing Britain 2018

- What does the value of Britain's housing stock mean for investors and landlords

Value of the UK's housing stock = £7.14 trillion – This would buy you Google, the International space station, the top 20 UK housebuilders, all the oil left in the North Sea, all bitcoin circulation, Amazon, Apple, Coca-Cola, McDonald's all companies in the FTSE100 and FTSE250, the top 15 mortgage lenders and the English Premier League.

This and more facts and figures can be found at:

Savills Research (2018) *Valuing Britain 2018* [online]. Available at: www.savills.co.uk/valuing-britain/index.html [accessed 25 February 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 25 February 2019]

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Housing Supply Research

Publication | Housing Supply Update Q4 2018

- Strong growth in housing supply at the end of 2018

The number of new homes built across England increased to 238,000 in the year to Q4 2018, a 12% increase on Q4 2017. This maintained the increased rate of growth in housing delivery seen in the previous two quarters. A similar rise in the number of starts suggests this growth could continue into 2019, but tough conditions in the sales market may hold back progress as consumers await the outcome of Brexit negotiations before committing to major expenditure. Housing delivery has increased across all regions compared with Q4 2017, with the strongest growth in London despite the slowdown in both house prices and sales. Even so, London only delivered 56% of homes needed at an aggregate level, as calculated by the standard calculation of housing need. Delivery also undershot need in the South East, East and South West, whilst delivery in other regions met housing need.

Even in the regions where housing supply meets need, there are individual local authorities with supply shortfalls. But the recent increase in supply has lifted several local authorities out of the danger zone for the Housing Delivery Test. Our mapped estimate shows how local authorities would perform against a Housing Delivery Test run for the three years to Q4 2018. 63% of districts passed whilst 5% failed to reach 45% of target delivery.

Planning consents declined for a 2nd quarter in Q3 2018 but remained 2% higher than Q3 2017 and well above housing delivery. The number of new planning consents is far above housing need across all regions except London and the fall reflects the reduced need for more land coming through the planning system in many areas as consents exceed housing targets.

Help to Buy transactions in Q2 2018 increased in volume a further 2% on the previous quarter. This is up 15% on the same quarter in 2017, as the equity loan continues to drive a large proportion of new homes sales. Out

recent note (<http://sav.li/d4o>) looks at the potential impact of the changes to Help to Buy that will take place in 2021. Starts in the Built to Rent sector have remained flat in Q4 2018 and remain above 18,000 per year. There were 6,600 Build to Rent completions in 2018, a slight fall from over 8,000 in 2017 as completions continue to lag starts by a substantial margin. Affordable housing delivery in the six months to September 2018 is at the same level as the previous year.

Further information on the 'Housing market' and access to the research in full is available @

Newitt J, and Buckle C, Savills Research and articles (2019), 'Publication: *Housing Supply Update Q4 2018*' [online], 14 February. Available at: www.savills.co.uk/research_articles/229130/275749-0 [accessed 25 February 2019]

Savills Research (2019) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 25 February 2019]

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Residential Research

Publication | Spotlight: Prime Residential Rents

- Supply and demand fundamentals provide the back bone to our (Savills) latest five-year prime rental forecasts. In 2018, uncertainty regarding the political and economic outlook was the most obvious driver of both the prime sales and rental markets. Buyers and tenants remained cautious, resulting in markets that were price sensitive. Yet, the political unknowns around Brexit aren't the only factors affecting the prime markets.

Though we have been in (or are approaching) a period of peak political uncertainty, the size of year-on-year rental falls in the prime markets of London are at their lowest since March 2016. Nor has the effect of a multitude of different market drivers (Brexit included) had a universal impact on different parts of the market. So, in this report, Savills have analysed the fundamentals of supply and demand.

What sits behind the headlines of softening rents? How does the current situation compare with previous downturns? How much is the market influenced by London earnings? What will supply look like with buy to let landlords under pressure? All of this allows us to examine what may happen to rents going forward, assuming that – sooner or later – Brexit is resolved.

Further information and access to the research in full is available @

Cook L, Bennison K [et al.], Savills Research and articles (2019), 'Publication: *Spotlight: Prime Residential Rents*' [online], 7 February. Available at: www.savills.co.uk/research_articles/229130/275098-0 [accessed 25 February 2019]

Savills Research (2019) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 25 February 2019]

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Commercial Research

Publication | Spotlight: UK cross sector outlook

- Investment trends and forecasts for 2019 across the commercial, residential and rural sectors

Welcome to the 2019 edition of this Savills annual Cross Sector Outlook. Their three heads of research, Mat Oakley, Lucian Cook and Emily Norton present their forecasts for the coming year and give their hot picks for out-performance in 2019 and beyond.

With Brexit uncertainty imminent, calling the market for 2019 is no easy task. The autumn budget (see publication date) confirmed that there is slack in the system to support a shock to the economy, but political change and regulatory reform remain key risk factors. In this uncertainty, a flight to real-estate assets could be expected, but with capital growth lacking in the short term, seeking the best rental growth prospects means finding niches and meeting changing expectations. Attractive investment opportunities are still coming to the market.

This Spotlight helps identify where the best value can be found across the various asset classes in the rural, commercial and residential sectors to inform your future investment decisions.

Savills expert knowledge and insight across all sectors are tangible benefit to their clients, and – especially at times of uncertainty – their real-estate expertise has never been more important.

By visiting the below provided source link, you can gain access and listen to a podcast where Savills researchers debate their predictions of the key trends for 2019.

Further information and access to the research in full is available @

Sparrow J, Oakley M [et al.], Savills Research and articles (2019), 'Publication: *West End Investment Watch*' [online], 8 January. Available at: www.savills.co.uk/research_articles/229130/272773-0 [accessed 25 February 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 25 February 2019]

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Rural Research

Publication | Market in Minutes: Prime outer commute

- Historically, prime towns and cities in the residential markets within a 30-60-minute commute of London have been the best performing. Has this trend continued throughout 2018?

The prime markets remain cautious: Savills' analysis starts by examining the prime outer commuter market in a national context

Uncertainty surrounding the UK's exit from the EU, and what this means for the economy and household finances, has resulted in continued caution among both buyers and sellers of prime residential property. In the final quarter of 2018, values across the prime regional housing markets of the UK fell by 0.3%, leaving them 0.9% below where they were at the start of the year. Although this decline in values is small, it is the fourth consecutive quarter that values have softened.

The ongoing price-sensitive nature of the market has meant property has had to be priced realistically to attract buyers. Where this has been the case, deals have continued to be agreed. Stand-out and unusual properties that don't often come to the market have commanded the strongest interest.

The prime markets closest to the capital have felt the effects of the weaker London market. While they have experienced greater falls in value than areas further from London, prices in the suburban and commuter markets still only fell by 2.6% and 1.6% respectively in 2018.

Values of other prime properties in the wider south have reduced by an average of 1.3% in the past 12 months. By contrast, in Scotland and the Midlands & North, prices have risen modestly by 2.0% and 1.0% respectively over the past year.

On average, prices for smaller, less expensive properties have held up best. Property worth £1 million or less has maintained modest annual price increases of 0.4% while £2 million-plus properties have fallen by an average of 3.1%.

"Definition of prime property This market consists of the most desirable and aspirational property by location, aesthetics, standards of accommodation and value. Typically, it comprises properties in the top 5% of the market by house price."

Prime outer commute in focus: Townhouses rises in popularity

Values in the prime out commuter zone (typically within a 60-minute commute of London) remained flat in the final quarter of 2018, leaving them down 1.7% year on year.

Weakness in the prime London and suburban markets continues to filter into this zone. This is particularly evident in properties worth more than £2m in this market. They have been more affected by stamp duty and, as such, had a fall of 3.1% over the past year.

Prime properties in the most desirable towns and cities (15.7% growth) in the outer commute have significantly outperformed their counterparts in village (7.9%) and rural (3.6%) locations over the past five years, and townhouses have risen in popularity relative to the traditional farmhouse, rectory or manor house. However, all locations and property types have seen muted annual price growth.

Outlook

The relative value offered in the regional prime markets compared with London will underpin future growth. However, in the short to medium term, we expect the prime markets to be driven by needs-based purchasers and to remain price sensitive. Quality is key in this cautious market.

Across London's commuter zone, we expect the five-year outlook to be more modest compared with areas further from the capital. Sentiment during Brexit negotiations in the run up to March 2019 will be a constraint

on price growth. However, we expect a return to growth thereafter, assuming an ultimately orderly Brexit and no significant changes in domestic politics.

Further information and access to the research in full is available @

Cook L, Bennison K [et al.] (2019), Research and articles, Publication: 'Market in Minutes: Prime outer commute' [online], 24 January. Available at: www.savills.co.uk/research_articles/229130/274286-0 [accessed 25 February 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 25 February 2019]

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Brexit Research

Brexit Research

- This section of Savills Research has web-pages dedicated to the implications for different sections of the UK property market of the European Union (EU) referendum result.

Latest publications and research articles Incl.

- **Commercial investment – 'Resilience in the face of Brexit' – 23 January 2019** [online]. Further information is available at: www.savills.co.uk/research_articles/229130/274449-0 [accessed 25 February 2019]
- Brexit Briefing #2: The Impact on the Central London Office Market – Market stabilising in a post-referendum environment
- Brexit Briefing: Food and Farming – Navigating through the complexity of the post-Brexit landscape: The impact of the farming sector of leaving the EU is likely to be high
- Challenges and opportunities in the next decade – What part will Brexit, housing policy and industry innovation play in meeting the nation's housing challenges?

Trending articles incl.

- The Impact on the central London office market – Uncertainty will be a drag on activity, but London still looks comparatively attractive
- The Impact on Global Real Estate – Reassessing risk and opportunity following Britain's decision to leave the EU
- The Impact on the UK Logistics Market – Robust occupier take-up and low vacancy rate will keep sector attractive for investors

Savills Research (2018) *Brexit Research* [online]. Available at: www.savills.co.uk/insight-and-opinion/research.aspx?rc=United-Kingdom&p=&t=Brexit&f=date&q=&page=1 [accessed 25 February 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 25 February 2019]

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Access to the House of Commons Library, Research briefings that impact on our industries incl.

The Construction Industry: statistics and policy

- **Key statistics on the construction industry – employment, new orders, output. Also, construction sector policy initiatives.**

In 2014 the construction industry in the UK contributed £103 billion in economic output, 6.5% of the total.

2.1 million jobs or 6.25 of the UK totals were in the construction industry in Q 2015.

The construction industry, particularly house building, fared badly during the recession. Output in the construction sector fell faster than the whole economy in 2008. 2009 saw the sector recover faster than the economy, and 2010 and 2011 saw broadly flat growth, followed by another contraction in 2012 and partial recovery through 2013.

The Coalition Government's strategy paper on the construction industry is *construction 2025*, published in July 2013.

The construction industry was also highlighted in the March 2011 *Plan for Growth*.

Rhodes C (2015), *Construction industry: statistics and policy*, House of Commons Library, Briefing Paper Number 01432, 6 October 2015 [online] and available at:

<http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01432> [accessed 25 February 2019]

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Related Links/Source of further information –

Latest 'Research briefings' from the House of Commons Library

The House of Commons Library produces research briefings that provide in-depth and impartial analysis of all major pieces of legislation, as well as many areas of policy, or cover frequently asked questions and topical issues.

The following might be of interest as they impact on our industries:

Under Housing and planning, 2019 -

Housing Market: Key Economic Indicators [13 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820> [accessed 25 February 2019]

What if there's no Brexit deal? [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8397> [accessed 25 February 2019]

Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies [11 February 2019] [online]. Further information is available at <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 25 February 2019].

Topics/Subject terms incl. Administration of justice; Agriculture and environment; Animals; Armed forces; Asylum; Aviation; Central government; Civil law; Climate change; Common Agricultural Policy; Companies; Consumers; Criminal law; Data protection; Defence equipment and procurement; Defence policy; Devolution; Economic policy; Economic situation; Energy; Environmental protection; Equality; EU- European Union budget; EU external relations; EU institutions; EU law and treaties; Europe; Farmers; Financial institutions; Financial services; Fisheries; Food; Forestry; Genetics; Health services; Higher education; Housing; Human rights; Immigration; Incomes and poverty; Industry; Information technology; International development; International economic relations; International organisations; International politics and government; International trade; Legislative process; Local government; Medicine; Middle East; North America; Overseas territories; Parliament; Pensions; Railways; Research and innovation; Roads; Russia; Science; Terrorism; Unemployment; and Water.

Local Authority Homelessness Statistics (England) [31 January 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7586> [accessed 25 February 2019]

Calling in a planning application [31 January 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN00930> [accessed 25 February 2019]

Building Regulations and Safety: Review and Reforms [25 February 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8482> [accessed 25 February 2019]

House prices (UK): Social Indicators page [16 January 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02645> [accessed 25 February 2019]

Housing costs in Universal Credit [3 January 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06547> [accessed 25 February 2019]

2018

Housing: key resources for constituency casework (England) [12 November 2018]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN04433> [accessed 25 February 2019]

Grenfell Tower Fire: Background [15 May 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8305> [accessed 25 February 2019]

Grenfell Tower fire: Response and tackling the fire risk in high rise blocks [1 August 2017] [online]. Further information is available at: <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7993> [accessed 25 February 2019]

Under Education, 2019 –

Teacher recruitment and retention in England [12 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7222> [accessed 25 February 2019]

What if there's no Brexit deal? [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8397> [accessed 25 February 2019]

Special Educational Needs: support in England [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN07020> [accessed 25 February 2019]

Review of Post-18 Education and Funding [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8239> [accessed 25 February 2019]

Higher education students numbers [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7857> [accessed 25 February 2019]

Brexit: Proposals for the future UK-EU relationship [25 January 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8483> [accessed 25 February 2019]

International and EU students in higher education in the UK FAQs [21 January 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7976> [accessed 25 February 2019]

Higher education funding in England [14 January 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7973> [accessed 25 February 2019]

Children and young people's mental health – policy, CAMHS services, funding and education [8 January 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7196> [accessed 25 February 2019]

Under Energy and environment, 2019 –

Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies [11 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 25 February 2019].

What if there's no Brexit deal? [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8397> [accessed 25 February 2019]

Brexit Glossary [22 November 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7840> [accessed 25 February 2019]

Environmental principles and governance: the draft Bill [30 January 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8484> [accessed 25 February 2019]

Q&A: Cavity Wall Insulation [8 January 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8471> [accessed 25 February 2019]

Archive of key topic areas incl.

- **Housing Market: Key Economic Indicators**
- **Implementation of Sustainable Development Goals**
- **Flood insurance**
- **Planning: change of use**
- **Planning Reform Proposals**
- **House Prices: Social Indicators**

- **Enterprise Zones**, and
- **Neighbourhood Planning**

Source: The above-mentioned research briefings/papers are published on the Parliament **website** and are available to MPs and to members of the public, www.parliament.uk, Parliamentary business, Publications and records, **Research briefings** [online]. Further information is available at: <http://researchbriefings.parliament.uk/> [accessed 25 February 2019]

- This page provides access to research briefings produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). You can filter the research briefings by date, type, or one of 350 topics. Pick your options from the dropdown menus provided.

Related Link:

Source: Heritage Update e-Bulletin [online], Issue **No 322**, 29 April 2016, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019]

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CIOB (Chartered Institute of Building) portal on government policy – [Policy latest](#)

The quality of the built environment affects every member of society. As a professional body that represents the leaders and managers who work at every stage of the lifecycle of a construction project, the Chartered Institute of Building seek to influence government, industry, and other stakeholders around the world with the aim of promoting the construction management discipline and addressing the challenges that the sector faces.

Sections of the CIOB Policy and Public Affairs website incl.

- **Consultations** - view latest responses to government and industry consultations and committees
- **Research** – The CIOB carry out industry-leading research on topics such as professionalism, migration and productivity
- **Resources** – Navigate the vast array of government documentation
- **Press** – Here you will find blog posts, CIOB media mentions and all the latest news.

As of [13 February 2019](#), Policy latest incl.

- **Press Release: Combined Action Needed to Tackle Severe Skills Shortages** (see below),
- **Construction and the Modern Slavery Act: Tackling Exploitation in the UK** (see below), and
- **CIOB, RIBA and RICS collaborate on initiative to improve building quality** (see below)

Source: CIOB - Chartered Institute of Building's Policy and Public Affairs website [online]. Further information is available at: <http://policy.ciob.org/> [accessed 25 February 2019]

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Press Release: [Combined Action Needed to Tackle Severe Skills Shortages](#)

- Leading construction bodies have called for united action between industry and Government to address skills pinch-points.

Nine industry federations and representative bodies have jointly called for collaboration to boost availability of occupations in greatest shortages including site supervisors, operatives and quantity surveyors.

The organisations – Association for Consultancy & Engineering, Build UK, Civil Engineering Contractors Association, Construction Plant-hire Association, Construction Products Association, Federation of Master Builders and the Chartered Institute of Building – want to see the industry work together to accelerate recruitment for 18 severe shortage roles in industry.

These roles are:

• Acoustic Engineers; • Bricklayers; • Carpenters; • Ceiling Fixers; • Chartered Surveyors; • Civil Engineers; • Construction & building trades supervisors; • Construction Project Managers; • Design engineers; • Dry Liners; • General Labourers; • Groundworkers; • Mechanical & Electrical Engineers; • Planners; • Plant and Machine Operatives; • Production Managers and Directors; • Quantity Surveyors; and • Structural Engineers.

The roles have been identified through research from across the members of each organisation and the wider industry as those that are hardest to recruit for. They are vital to the delivery of projects nationwide. The groups recommend that wherever possible, steps should be taken to recruit for these roles within the UK, bringing in new workers or upskilling the existing workforce.

Where this is not possible, it is proposed that the Government add the roles to its Shortage Occupation list as part of its current review of migration as the UK leaves the EU. Additions to the Shortage Occupation list would allow these roles to be prioritized in future migration from the rest of the world, helping industry to fill these essential roles.

Suzannah Nichol MBE, chief executive at Build UK, said “Construction projects across the UK are being held back by a shortage of suitable skills. This survey provides vital evidence of the specific roles which must now be considered by the Government for inclusion on the Shortage Occupation list ensuring that we can keep Britain building.”

CECA chief executive Alasdair Reisner said: “Speaking to companies from across UK construction we have identified some key roles where recruitment is already very difficult, or where it will become so once migration from the EU is reduced post-Brexit.

“We believe that it is crucial what we work together, as an industry and with Government to target these shortages occupations, boosting recruitment and training in the UK, while looking to sensible migration from the rest of the world to meet additional demand.”

Patrick Cusworth, head of policy and public affairs at the CIOB, said: “We recognise that the construction industry in the UK needs to be more ambitious in terms of recruiting, training and developing more people than it currently does.

“However, research has shown that in the short-to-medium term the industry needs to be able to continue to access migrant labour in a number of key professions such as construction and project management and a number of site-based roles.

“If we are to deliver ambitious housing and infrastructure targets and deliver the quality and high standards people expect, then we must ensure that we have the flexibility in place to recruit to these roles, while at the same time taking a longer view on recruitment and retention in the UK construction industry.”

George Lee, CEO of the Highways Team Maintenance Association, said: “The Government has committed to supporting economic growth through improved highways infrastructure, however, the survey and report into shortage occupations exposes the need for highways sector employers to be able to access more skilled and semi-skilled labour in order to deliver Government’s ambitions. In short Government needs to ensure that its skills and migration policies are aligned if it wants to deliver on its roads agenda.”

Richard Beresford, chief executive of the National Federation of Builders, said: “The industry working together has produced a clear picture of where the construction industry will lack skills. It is vital we continue to work together to improve capability in these areas and with Government to ensure that skills are part of a comprehensive immigration scheme.”

Related Links:

Barnes D (2019) ‘Response to the MAC Shortage occupation list 2018: call for evidence’ [CIOB Policy and Public Affairs > Consultations > Response to the MAC Shortage occupation list 2018: call for evidence] CIOB [online]. Available at: <https://policy.ciob.org/consultations/response-to-the-mac-shortage-occupation-list-2018-call-for-evidence/> [accessed 25 February 2019]

Gerrard N (2019) ‘Construction plea for roles on ‘Shortage Occupation’ list’, *Construction Manager* [online], 25 January. Available at: www.constructionmanagemagazine.com/news/call-18-construction-roles-be-added-shortage-occup/ [accessed 25 February 2019]

CIOB, Policy & Public Affairs, Research [online]. Available at: <https://policy.ciob.org/research/> [accessed 25 February 2019]

Source: Barnes D (2019) 'Press release: Combined Action Needed to Tackle Severe Skills Shortages' [CIOB Policy & Public Affairs > News & Views > Press Release: Combined Action Needed to Tackle Severe Skills Shortages] CIOB Policy & Public Affairs [online]. Available at: <https://policy.ciob.org/press-release-combined-action-needed-to-tackle-severe-skills-shortages/> [accessed 25 February 2019]

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Construction and the Modern Slavery Act: Tackling Exploitation in the UK

Summary

- CIOB is urging the UK contractors to face up to the significant human rights risks in their supply chains, with the launch of a new report that finds both British and foreign workers at risk of exploitation.

Construction and the Modern Slavery Act, tackling exploitation in the UK is published as the Gangmaster and Labour Abuse Authority (GLAA) and National Crime Agency (NCA) jointly lead national enforcement campaign involving police forces and other agencies aimed at tackling labour exploitation. NCA analysis has identified construction as one of the most common sectors for labour exploitation in the UK.

Criticising the industry's slow response to the Modern Slavery Act, CIOB's report highlights the aggressive business models that are creating an environment for unethical procurement and recruitment practices, and the systemic auditing failures that are allowing criminals to infiltrate major projects undetected.

Problems are set at the top of supply chains with lowest cost tendering, abuse of the retentions system and late payment pricing out ethical practice. The situation is creating an imbalance of power that leaves all nationalities vulnerable to exploitation. Illegal activities such as blacklisting are also believed to be continuing, despite recent high-profile court cases.

Major contactors in construction typically have long and fragmented supply chains, with little visibility beyond tiers one or two. They are also heavily reliant on temporary migrant labour, a significant indicator of risk. Nevertheless, the report found examples of complacency and disbelief that major projects were vulnerable to criminal infiltration and human trafficking. This contrasted with incidents of modern slavery being found on major UK infrastructure programmes, PFI hospital projects, power plants, recycling centres, renovation projects, demolition sites and local authority schemes.

The report highlights:

- How industry is conflating immigration checks with modern slavery checks. This is ineffective because many people trapped in modern slavery have a legitimate right to work in the UK.
- Severe weaknesses in commercial auditing models, with auditors dis-incentivised to report problems to the police.
- Poor transparency in supply chain reporting standards, with many eligible companies failing to produce a modern slavery report in the first annual reporting cycle. A significant number of published statements do not follow minimum legal requirements, including being visible on the company homepage and being signed off by a board director.
- A tendency for companies to water down their modern slavery statements to remove mention of risk, against the spirit of the Modern Slavery Act.
- Examples of sharp practice, with major players defaulting to legal compliance exercises that push responsibility onto their less well-resourced suppliers. This is also against the spirit of the legislation.

Construction and the Modern Slavery Act includes interviews with a number of leaders and influencers, including:

- Independent anti-slavery commissioner Kevin Hyland OBE
- The late Paul Broadbent, former chief executive of the Gangmasters and Labour Abuse Authority (GLAA)
- Leading barrister Caroline Haughey QC
- Chief constable for Devon and Cornwall Police and national policing lead for modern slavery Shaun Sawyer
- Justine Currell, executive director of Unseen and the Modern Slavery Helpline.

The report explores the legal, investor and social pressures for driving change. It also highlights examples of industry best practice as well as platforms for information sharing, such as the GLAA's construction forum. Strategies for rehabilitating survivors of slavery are included through the Co-op Group's Bright Future programme.

CIOB is calling for a new industry narrative: asking contractors to acknowledge that every supply chain is at risk and collaborate more widely to combat crime. It is launching a **Routemap to Fair Business** which sets out steps

for raising standards for all workers and suppliers, encouraging a more proactive approach to tackling systemic issues.

Further information and link to the CIOB Manifesto to read online and download is available at:

Source: Crates E (2018), 'Construction and the Slavery Act: Tackling Exploitation in the UK' [online], CIOB Policy & Public Affairs Portal, 14 May 2018. Available at: <https://policy.ciob.org/research/construction-and-the-modern-slavery-act-tackling-exploitation-in-the-uk/> [accessed 25 February 2019]

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CIOB, RIBA and RICS collaborate on initiative to improve building quality

The Chartered Institute of Building (CIOB) Past-President Paul Nash, Royal Institute of British Architects (RIBA) President Ben Derbyshire, and Royal National Institution of Chartered Surveyors (RICS) President John Hughes have signed the 'Building in Quality: Joint Memorandum of Understanding' (JMU).

As part of this agreement, the partners launched an industry-wide consultation on a proposed system for establishing a chain of custody for quality in construction projects, on the RIBA stand at Ecobuild.

Led by the RIBA's Client Liaison Group, which includes CIOB and RICS representation, the 'Building in Quality' initiative aims to encourage better collaboration, improved procurement, and to introduce new methods to improve the quality of the built environment for the benefit of the society.

The consultation process will run from April until end of June 2018 leading to a launch of the 'Quality Risk Tracker: setting up a chain of custody' at UK Construction Week from 9-11 October 2018. Parties wanting to participate in the consultation should go to our Building in Quality consultation page to register their interest. Further information is available at

RIBA (2018) 'Building in Quality' consultation – tell us your views' [online]. Available at:

www.architecture.com/knowledge-and-resources/knowledge-landing-page/building-in-quality-consultation [accessed 25 February 2019]

Further information is also available at

Source: CIOB (2018), 'CIOB, RIBA and RICS collaborate on initiative to improve building quality' [online], CIOB Policy & Public Affairs Portal. Available at: <https://policy.ciob.org/research/social-mobility-construction-building-routes-opportunity/> [accessed 25 February 2019]

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Apprenticeships –

'The exhausting road to my apprenticeship dream' – [BBC News apprentice tells us about her journey](#)

- As an MPs' report says too many youngsters are not getting the support they need to access an apprenticeship, BBC News apprentice tell us about her journey in this article.

"Why an apprenticeship?" I did not want to start my adult life in debt. It's as simple as that. If I was to accumulate nearly £30,000 worth of student debt at the age of 21 simply through taking a degree, I feared my aspiration to buy my own house would be harder to achieve. Not only that, but A-levels nearly broke me.

I realised that, after spending what felt like an entire life in education, I craved a change, but on that would bring new openings. **Apprenticeships are a ladder of opportunity, bursting full of new chances and skills waiting to be experienced by keen individuals.**

'Life just beginning' - **Apprenticeships can be the catalyst to a secure career in a desired industry**, and everyone deserves the choice to apply to one.

I am going to spend two years both studying in college and being stationed in a BBC News department, so **I will benefit from being part of the team in the real world of work.**

Nowadays, many employers are seeking candidates who have plenty of experience as well as a qualification. As an 18-year-old, my adult life is only just beginning. I am figuring myself out while making amazing discoveries along the way.

I am overcome with pride every time I remember that I am an apprentice, and I cannot wait to see what the future holds for me.”

Source: BBC News (2018) ‘The exhausting road to my apprenticeship dream’ [BBC news > Family & Education] BBC News [online]. Available at: www.bbc.co.uk/news/education-45760477 [accessed 25 February 2019]

Related links:

Fire It Up (n.d.) YouTube [channel]. Available at: <https://www.youtube.com/user/ApprenticeshipsNAS/featured> [accessed 25 February 2019]

- Inspiring potential apprentices and employers to **Fire It Up with apprenticeships**. Also, please visit the **Apprenticeships** website [online]. Available at: www.apprenticeships.gov.uk [accessed 25 February 2019]

BBC News (2018) ‘**Apprenticeships down amid “frustration”**’ [online], 19 April. Available at: www.bbc.co.uk/news/business-43809679 [accessed 25 February 2019]

BBC News (2018) ‘**Firms relabeling low-skilled jobs as apprenticeships, says report**’ [online], 13 April. Available at: www.bbc.co.uk/news/education-43739963 [accessed 25 February 2019]

BBC News (2018) ‘**Apprenticeships: Eight things you need to know**’ [online], 21 February. Available at: www.bbc.co.uk/news/business-42977824 [accessed 25 February 2019]

BBC News (2017) ‘**Apprenticeships: ‘It’s the money that puts people off’**’ [online], 13 October. Available at: www.bbc.co.uk/news/41599034 [accessed 25 February 2019]

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Further ‘Apprenticeship-related’ links:

UCEM Apprenticeship programme – Development talent for your business

Further information is available via the UCEM Website [online] and available @ www.ucem.ac.uk/development-talent-for-your-business/apprenticeships/ [accessed 4 January 2019]

Success for UCEM’s first two apprentices – Further information is available at:

Source: UCEM (2018) ‘Success for UCEM’s first two apprentices’ [UCEM Website > Home > News & Events > News > Success for UCEM’s first two apprentices] UCEM [online]. Available at: www.ucem.ac.uk/news-events/news/success-for-ucems-first-two-apprentices/ [accessed 25 February 2019]

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Need to know: Apprenticeship levy FAQ

- Understanding the funding mechanism for training can be a complex affair – so how does the government’s new apprentice training levy fit into the equation? Here’s what we know so far.

- **What is the Apprenticeship Levy?**

The Apprenticeship Levy is a new levy introduced by the government on all employers with a pay bill of more than £3m per year. It is intended to encourage employers to invest in apprenticeships, to increase the quality and quantity of apprenticeships across the whole of the economy.

The Levy was announced in the 2015 Summer Budget and will come into force in April 2017 at a rate of 0.5% of an employer’s wage bill, paid through PAYE. It is expected to raise £3bn a year by 2020.

- **How many construction firms will need to pay the Apprenticeship Levy?**

Based on current data, about 1% of employers registered with the Construction Industry Training Board (CITB), about 600 companies will need to pay. However, the apprenticeship reforms will impact on construction employers of all sizes.

- **What will employers get back from the Levy?**

Employers in England will be able to reclaim their contributions as digital vouchers to pay for apprenticeship training.

This voucher system will not apply in Scotland, Wales and Northern Ireland. The devolved governments in those countries will receive additional funds in proportion to the amount spent on training in England.

Employers that pay the Apprenticeship Levy will also receive a 10% top-up from the government towards their total monthly contributions in England. So, for every £1 an employer pays in, they can draw down £1.10 to spend on apprenticeship training.

Other question raised incl.

- The main details regarding funding
- How will the proposed funding bands work? Will they work for construction?
- What's the co-investment rate?
- What are the new standards going to look like?
- How will the new levy work with the current CITB levy?
- Where can I go for more information?

Further information can also be accessed via

Related Links:

Further information incl. **Learning from the levy** can be found at: **Apprenticeship levy: making the most of it** Husband S (2018) 'Apprenticeship levy: five myths busted', *Further Education News.co.uk* [online], 22 February. Available at: www.fenews.co.uk/press-releases/16261-apprenticeship-levy-five-myths-busted [accessed 25 February 2019]

CIOB, CM - Construction Manager (2017), Apprenticeship levy: making the most of it, *Construction Manager* [online], 14 May. Available at: www.constructionmanagermagazine.com/management/how-currie-brow7n-m8aking-apprenticeship-levy/ [accessed 25 February 2019]

Bentley A (2017), CIOB, CM - Construction Manager, Management: The apprenticeship levy and how to spend it, *Construction Manager* [online], 26 June. Available at www.constructionmanagermagazine.com/management/get-head-start-apprenticeship-levy/ [accessed 25 February 2019]

CIOB, CM - Construction Manager (2015), **Q&A briefing**: How will the new apprenticeship levy affect the industry? *Construction Manager* [online], 26 November. Available at www.constructionmanagermagazine.com/news/new-apprenticeship-levy-qa/ [accessed 25 February 2019]

Jones M (2017), 'Implementation is key to making the apprenticeship levy less about cost and more about gain', LinkedIn [online], 9th June. Available via www.linkedin.com [accessed 25 February 2019]. Dr Mark Jones is the Chief Operating Officer at the Higher Education Academy (HEA)

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UCEM Accreditation and recognition

UCEM works closely with the leading professional bodies in the Built Environment to ensure that our programmes provide the knowledge and understanding required to achieve chartered status. These include the Royal Institution of Chartered Surveyors (RICS), the Chartered Institute of Building (CIOB), the Chartered Association of Building Engineers (CABE) and the Chartered Management Institute (CMI) and Hong Kong Institute of Construction Managers (HKICM). All our bachelor and masters level programmes are formally accredited by at least one of these bodies. Our Foundation Degree Surveying Practice is also recognised by RICS and CABE for Associate membership. Our Diploma of Higher Education in Surveying Practice (Real Estate Pathway), Foundation Degree in Surveying Practice (Real Estate pathway), UCEM BSc (Hons) Real Estate Management and UCEM MSc Real Estate are recognised by the Property Services Regulatory Authority (in the Republic of Ireland).

Under the current policy of the Hong Kong Institute of Surveyors (HKIS), graduates of UCEM programmes that are accredited by RICS are permitted to take the Assessment of Professional Competence of HKIS.

Further information can be accessed via the UCEM website [online] and available at: www.ucem.ac.uk/about-ucem/accreditation-recognition/ [accessed 25 February 2019]

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Further information on [‘Designing Buildings Wiki’](#) –

The construction industry knowledge base incl. Featured articles, and news.

About – *Designing Buildings Wiki* is the only industry-wide, cross-discipline forum for finding and sharing information. Anyone can create articles about subjects they know, and anyone can find articles about subjects they don’t.

This month covers **Featured articles** (as of 25 February 2019) on

- **Walking interviews – It is easier talking about a place when you experience its sights, sounds and smells.**
- **CIAT Awards – Specialist educational needs: analysing the necessities for inclusion**
- Engineering cities – Can we build cities that anticipate the future?
- **Well-being – How to provide affordable, sustainable and healthy urban communities.**
- **Improving collaboration with industry – The government has launched an ‘Outsourcing Playbook’.**
- Off-site construction – How can we ensure the benefits of off-site construction are realised?
- Project management – A new theory for managing large complex projects.
- Transport and infrastructure – A vision for digital highways.
- Building conservation – Finding stone to conserve historic buildings.
- Work at height checklist – If it is not planned properly even a simple activity can kill.
- Stakeholder management – A disgruntled or ignored stakeholder can easily derail your hard work.
- University research – Next generation cementitious materials

This month also contains **news** (as of 25 February 2019) from the following organisations and online journals incl.

- **The Construction Index, Feb 22nd – Sales growth slows at UK builders’ merchants.**
- CIAT, Feb 21 – Recycled tyres can improve concrete fire resistance.
- **GCR, Feb 21 – Robots will be used to build a robot museum in Seoul (see further information below)**
- CIOB, Feb 21 – CIOB announces the date for its next Conservation Conference.
- GCR, Feb 21 – US prefab start-up launches an aircon unit that ‘fits in a wall’.
- Construction Enquirer, Feb 20 – Construction t-levels are under threat from a lack of teachers.
- **The Construction Index, Feb 20 – London sees the highest-ever pile load for test for a European building.**
- Global Construction Review, Feb 19 – Work to start in the US on the first-ever free-form printed house.
- **Construction Enquirer, Feb 19 – Two Portsmouth ‘Grenfell’ tower blocks to be torn down.**
- **Construction Manager, Feb 18 – 75% of GRP fire doors fail 30-minute fire tests.**
- BRE, Feb 18 – BRE Group appoints Gillian Charlesworth as new CEO.
- **Construction Enquirer, Feb 18 – Plans submitted for UK’s largest modular council homes project.**
- Rogers Stirk Harbour+Partners, Feb 15 – Planning permission approved for RSHP’s plans for Hammersmith Town Hall.
- Institution of Civil Engineers, Feb 15 – Experts argue rail infrastructure success is key to London’s growth.
- **Construction Manager, Feb 14 – The government reveals a list of materials for BRE cladding fire tests.**
- CIAT, Feb 14 – Low Carbon Homes forums tackle fuel poverty challenges in UK housing.
- **RICS, Feb 14 – January was slow for residential sales, says survey (see further information below).**
- Institution of Civil Engineers, Feb 13 – A new partnership has been announced to help the SuDS sector.
- Royal Gold Medal – Sir Nicholas Grimshaw has been awarded the UK’s highest honour for architecture.
- **Construction Index, Feb 14 – Full cost of London’s Garden Bridge fiasco now revealed.**
- **Construction Enquirer, Feb 14 – Government signs off £250m for major housing projects.**

- 24 housing, Feb 13 – A £9m Homes England garden town fund will help deliver 200,000 homes.
- GOV.UK, Feb 13 – Four new commissioners appointed to new home design body.
- IHBC, Feb 12 – Crowdfund call launched to challenge poor planning decisions in Bath.

‘Designing Buildings Wiki’ is an industry-wide, cross-discipline forum for finding and sharing information, covering the following subject areas incl.

‘Designing Buildings Wiki’ categories			
Project Plans	Project activities	Legislation and Standards	Industry context
Building Information Modelling (BIM)	Appointments	Case law	Conservation
Construction manager	Client procedures	Health and safety / CDM	Education
Design and build	Construction management	Other legislations	History
Management contract	Construction techniques	Planning permission	International
Public project	Contracts / payment	Policy	Organisations
Self-build home	Cost / business planning	Property law	Projects and case studies
Traditional contract	Design	Regulations	Publications / reports
	Procurement	Standards / measurements	Research / Innovation
	Products / components	Sustainability	Theory
	Property development	Taxation	
	Public procedures		
	Roles / services		

Source: **Designing Buildings.co.uk Wiki**, (2019) [online]. Further information is available at: www.designingbuildings.co.uk/wiki/Home [accessed 25 February 2019]

‘[Designing Buildings Wiki](#)’ presents the most popular articles in each of their 32 subject areas/categories

To celebrate reaching 5,000 articles, ‘Designing Buildings Wiki’ presented the most popular article in each of their 32 subject areas/categories (identified above)

Direct hyperlinks are provided to each individual article identified and can be accessed via the source provided below.

Category – Project Activities

SUBJECT AREA	MOST POPULAR ARTICLE
1. Appointments	Design and build

2. BIM	Level of detail
3. Client procedures	Project brief
4. Contracts/Payment	Variations
5. Construction management	Tender documentation
6. Construction techniques	Value engineering
7. Cost / business planning	Bill of quantities
8. Design	Types of drawings
9. Procurement	Preliminaries
10. Products / components	Pile foundations
11. Property development	Building design and construction fees
12. Public procedures	Procurement routes
13. Roles / services	Architect's fees

Category – Legislation

SUBJECT AREA	MOST POPULAR ARTICLE
14. Case law	Contract vs tort
15. Health and safety / CDM	CDM 2015
16. Other legislation	Method statement
17. Planning permission	Section 278 agreements
18. Policy	Building information modelling
19. Property law	Building regulations
20. Regulations	U-values
21. Standards / measurements	Types of drawings
22. Sustainability	Sustainability in building design and construction
23. Taxation	Construction VAT

Category – Industry context

SUBJECT AREA	MOST POPULAR ARTICLE
24. Conservation	Defects in brickwork
25. Education	Construction methods
26. History	The UK construction industry
27. International	Why so many women leave engineering
28. Organisations	Construction industry acronyms
29. Projects and case studies	The Big Bend, New York

30. Publications / reports	Latham Report
31. Research / innovation	3d printing
32. Theory	Risk in building design and construction

You can access, read online and gain direct links to the most popular articles @

Source: **Designing Buildings.co.uk Wiki**, (2017) 'Most popular articles in each subject area' [online], last edited 11 May 2017. Further information is available at: www.designingbuildings.co.uk/wiki/Home_and_most_popular_articles_in_each_subject_area [accessed 25 February 2019]

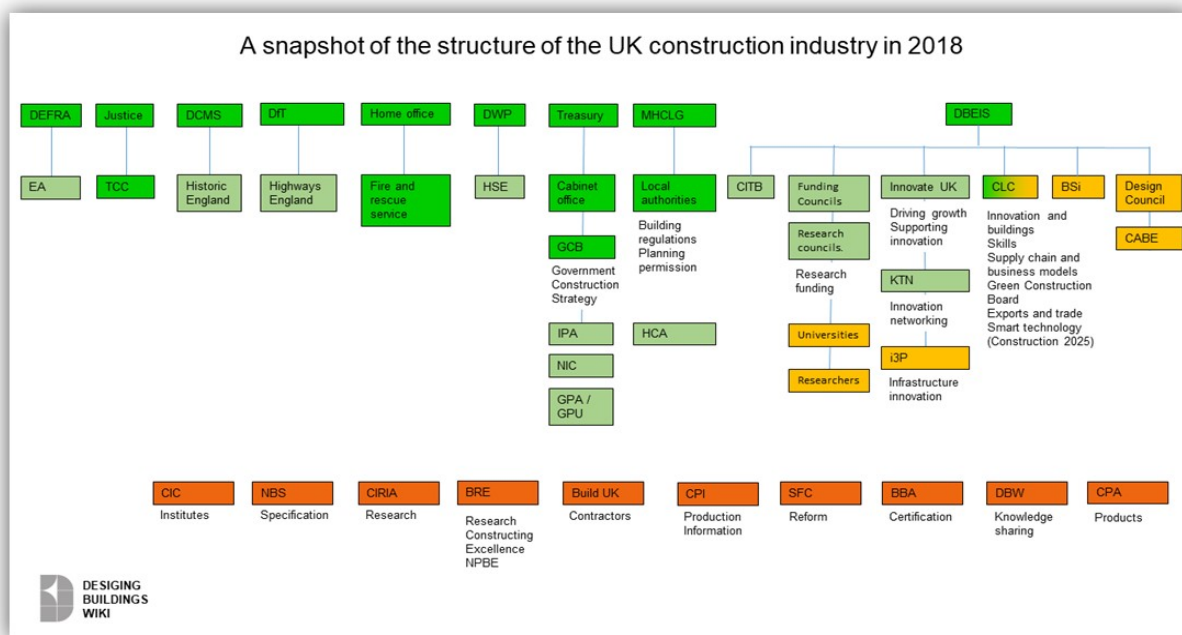
Related Link:

Designing Buildings.co.uk Wiki, (2017) 'Types of drawings' [online], last edited 5 October 2018. Further information is available at: www.designingbuildings.co.uk/wiki/Home_and_types_of_drawings_for_building_design [accessed 25 February 2019]

- 'Designing Buildings Wiki' most popular article in 2018 and was read more than 150,000 times.

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Fragmentation of the UK construction industry



Source: **Designing Buildings.co.uk Wiki** (2018), 'Fragmentation of the UK construction industry' [online], last edited 8 June 2018. Further information is available at: https://www.designingbuildings.co.uk/wiki/Fragmentation_of_the_UK_construction_industry [accessed 25 February 2019]

The UK construction industry has always been complex and diverse, and the modern industry, with its separation of design and construction has to some extent always been fragmented. But despite the development of the 'design and built' procurement route, integrated project teams and the introduction of collaborative practices, there is strong evidence that industry fragmentation has become progressively worse since the 1950s. This is thought to contribute to poor performance, low investment, poor skills and a lack of innovation.

This was recognised as early as the Ministry of Works 'Survey of Problems before the Construction Industries' (the Emmerson Report) published in 1962, but most notably it was highlighted in Sir Michael Latham's 1994 report 'Constructing the Team', which notoriously described the industry as 'ineffective', 'adversarial', 'fragmented' and 'incapable of delivering for its customers'.

One of the reasons for the fragmentation of the industry is that buildings have become more complicated. Britain emerged from the Second World War with a construction industry dominated by very large contractors that had grown from war time work and were rebuilding a country ravaged by the Blitz. Wimpey were the

biggest of these contractors, directly employing most of the labour necessary to execute its projects. Taylor Woodrow, even with half the annual turnover of Wimpey, employed 40,000 people. Today however, as buildings have come more complex, it is less and less likely that any one contractor will have the required skills to carry out all the works necessary to construct them, and it does not make good commercial sense to take on new employees for one project that would then have to be laid off for the next. Increasingly therefore, contractors use sub-contractors to carry out particular elements of the works. On a straight-forward 'traditional' project, design consultants and the main contractor, sometimes referred to as tier 1 suppliers, work for the employer, and the main contractor may have a limited chain of their own suppliers. However, the situation becomes more complicated on large projects, where the employer may have a significant number of tier 1 suppliers, all with complex and extended supply chains of their own, some of whom may be completely unknown to the employer at the top of the chain. A report published by EC Harris in 2013 suggested that for a large building project in the £20- £25 million range, the main contractor may be directly managing around 70 sub-contractors of which a large proportion had a relatively low value of £50,000 or less. *Construction 2025*, published in 2013 also pointed to a high degree of fragmentation, even when compared to other sectors or to countries such as the USA, France and Germany. This, it has been suggested, is because the UK has a higher level of sub-contracting driver, in part by the relatively high proportion of self-employment and a high number of small and micro businesses. The *Government Construction Strategy 2016 2020* (published in 2016) reported that the industry was dominated by a staggering 956,000 SMEs, which accounted for 99% of businesses. However, *Construction 2025* suggested that the industry's customer base was even more fragmented, with much of the industry's workload coming to it on a one-off, piecemeal basis. This was also referenced by the *Government Construction Strategy 2011 2015* (published in May 2011) which pointed to a fragmentation of the public-sector client base. Government oversight of the construction industry is spread across many departments, with no clear single point of responsibility. For example, the Department for Business Innovation and Skills (BIS) is responsible for *Construction 2025*, but HM Treasury is responsible for the Government Construction Strategy. In 2007/8, the Building Research Establishment (BRE) reportedly characterized the number of public sector bodies with an interest in construction as 'a completely fragmented mess'. There was an attempt to tackle this problem in 2009, with the appointment of a Chief Construction Adviser, intended to provide cross-departmental coordination and leadership on construction industry policy. However, this position was scrapped in November 2015. This departmental situation was simplified a little in 2018 by the creation of the Ministry of Housing, Communities and Local Government (MHCLG), but there is still no overall government responsibility for the industry. The internal organisation of the industry itself does not help, with an estimated 300 institutes, associations and other bodies representing each of the individual factions that now exist through the intended supply chain. This leads to a wasteful and ineffective duplication of effort in some areas and leaves gaping holes in others.

See Construction industry institutes and associations (A-F and G-Z) below for more information.

For further information on this and other related subjects, please visit

Source: **Designing Buildings.co.uk Wiki** (2018), 'Fragmentation of the UK construction industry' [online], last edited 14 June 2018. Further information is available at:

www.designingbuildings.co.uk/wiki/Fragmentation_of_the_UK_construction_industry [accessed 25 February 2019]

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Construction industry institutes and associations

-This list is for institutes, associations and other bodies that might be considered to represent part of the construction industry.

Designing Buildings Wiki, 'Construction industry institutes and association', **A to F** [online]. Available at:

www.designingbuildings.co.uk/wiki/Construction_industry_institutes_and_associations_A_to_F [accessed 25 February 2019]

Designing Buildings Wiki, 'Construction industry institutes and association', **G to Z** [online]. Available at: www.designingbuildings.co.uk/wiki/Construction_industry_institutes_and_associations_G_to_Z [accessed 25 February 2019]
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Designing Buildings Wiki – Student resources

Designing Buildings Wiki – Student resources [online] and available at: www.designingbuildings.co.uk/wiki/Student_resources [accessed 25 February 2019] – *Designing Buildings Wiki* has a wide range of resources aimed at students of the built environment, incl.

Career guides – How to become an architect; How to become a civil engineer; How to become a construction manager; How to become an engineer; How to become a quantity surveyor; and how to become a landscape designer.

Course guides for – Architecture; BIM; Civil engineering; Commercial management and quantity surveying; Construction engineering management; Construction project management; and Urban design

Dissertation guides, and

Universities (incl. UCEM) and **Colleges**.

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wiki are increasingly being used by people in the academic community, as an easy source of information about anything and everything. However, citation of Wikipedia may not be considered acceptable, because Wikipedia is not a creditable source.

It is important to note that whilst Wikipedia may be one of the Web's most popular reference sites, it is not classed as a credible resource because anyone can be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.
- An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journal articles and other appropriate and credible resources. What you find in these other sources of information will be more detailed, more precise, and more carefully reasoned than the summary you found in an encyclopaedia. The sources you reference/cite in your work will therefore be these more detailed sources you have used.

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The Construction Information Service (CIS) – Insight 01/2019 Edition

- *CIS Insight* (01/2019 Edition) –

This month's *Insight* focuses on 'Defining green'.

Abstract

The World Green Building Council defines green as a building that, 'in its design, construction or operation, reduces or eliminates negative impacts, and can create positive impacts, on our climate and natural environment. Green buildings preserve precious natural resources and improve our quality of life.' (What is green building?) They go on to explain that not all green buildings are alike, nor should they be. In this article, we'll look at a variety of factors that must be considered when defining green, talk a bit about green design and operations, materials efficiency, sustainability, etc., as well as look at the top two environmental assessment programmes – BREEAM and LEED.

Subjects covered Incl.

- Environmental planning / land
- Green issues / sustainability / green buildings

- Sustainable living
- Planning and development
- Sustainable development
- Special subject areas
- Environmental issues / energy

Contents

- **The business case**
- **Going green** Incl. Materials efficiency, Design and planning, Building materials, and Technology and systems;
- **Biomimicry**
- **BREEAM and LEED** Incl. BREEAM, LEED, and Is one better than the other?
- **The WELL building standard**
- **Thinking green**

Further information, advice and guidance is provided via the below source link:

Source: NBS (2019), The Construction Information Service (CIS) – *Insight 01/2019: Defining green* [online].

Further information available at: www.thenbs.com/knowledge/defining-green [accessed 25 February 2019]

Please note: CIS can be accessed through the **Athens gateway** (via the VLE e-Library) and by selecting '**IHS Information Services**'. The Briefing can be downloaded from the CIS homepage.

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The Smith Institute

The Smith Institute is a leading independent 'think tank' which promotes progressive policies for a fairer society. They provide a high-level forum for new thinking and debate on public policy and politics. Through research, reports, briefings, monographs, events, lectures, education, and our website, the Institute offers a platform for thought leadership on a wide range of topics incl.

- **Economy and Finance** - This policy theme includes work on macro-economics, trade, tax and finance. The Smith Institute's work in this area has looked at the relationship between fairness and a strong economy.
- **Government and Politics** - The Institute is interested in constitutional reform, active citizenship and political participation. Future work will be exploring voting trends, the interplay between politics and policymaking and improving political engagement.
- **Sustainability and Environment** – The Institute's work in this field has looked at food supply, homeworking, eco-housing, and energy policy.
- **Business and Third Sector** - This policy theme includes work on the business, corporate responsibility, access to finance, charitable giving and social enterprises. This year our work in this area will be focusing on corporate governance, business and rebalancing the economy, and the third sector and public services.
- **Local Government Cities and Regions** - This policy theme includes work on the devolution and regional economic disparities and development. The economic downturn is exacerbating the gap between London (and the Greater Southeast) and other areas of the UK. Set against this backdrop the Institute is continuing work on city-regions, economic geography and localism.
- **Housing and Regeneration** - This policy theme includes work on social housing, private rented sector, eco-towns, regeneration, suburbia, and urban renewal. The Institute's work this year will be mainly focused on funding social housing, eco-homes, and place-making.
- **Work and Welfare** - This policy theme includes work on wages, good work employment, welfare, worklessness, pay, outsourcing and skills. The Institute recently undertook a major inquiry into making undertaken by Ed Sweeney (former chair of ACAS) into Making Work Better. This report was widely welcomed including support from the Labour party, unions and the EEF. The Institute's future work programme is going to focus on procurement, living wage, employment protection and will focus on some of the main themes from the *Making Work Better* report.
- **Education and Families** – The Institute's work in this policy area has looked at all levels of formal education and on early intervention policies. The Institute believe that it is far better and fairer for individuals and society, and makes clear economic sense, to intervene early before problems develop in later life.

- **Health and Wellbeing** - This policy theme covers work on healthcare, healthy living and mental health. The Institute are interested in health and social care, the delivery of efficiencies and fairness in the NHS, and health prevention. Future work will be focusing on the impact of the health and social care act, the ageing society, integration and public health.
- **Security and Criminal Justice** - This policy theme includes work on the criminal justice system, reducing re-offending and issues around combatting terrorism and national security. The Institute aim to undertake further research on offender management and security policy.
- **EU and International** - This policy area include work on the European Union, trade, and Britain's relationship with the international community and role in the world. The Institute have published a collection of essays on social Europe which, it is hoped will be followed up this year. The Institute also aim to undertake further work on economic nationalism and globalisation.

The Institute's activities are informed by a network of well-known experts, policy makers, research fellows and patrons. Based in London, it works in partnership with a range of public and private organisations, foundations and charities. As a charity, The Smith Institute had an excellent track record in influencing and shaping public policy, and extensive national and international contacts. Over the last decade it held over 500 events and published more than 150 reports – including *'Working together – thinking alike: What do councils and local enterprise partnerships expect from housing associations'* (as mentioned earlier in this issue), with contributions from Prime Ministers and MPs to archbishops and chief executives. The Smith Institute, recently reconstituted as a not-for-profit organisation, will sustain and develop this record of achievement, and maintain its reputation and influence in Westminster and Whitehall.

N.B. The newly updated Smith Institute website [online]. Further information is available at: www.smith-institute.org.uk/ [accessed 25 February 2019]



<https://www.facebook.com/pages/The-Smith-Institute/251600568286?v=wall> [accessed 25 February 2019]



https://twitter.com/smith_institute/ [accessed 25 February 2019]

Policy Tracker

on The Smith Institute's website [online] and available @ www.smith-institute.org.uk/?page_id=66 [accessed 25 February 2019]

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Latest Research from The Smith Institute incl.

Spending fairly, Spending well: time for a radical overhaul of value for money and public audit

Concerns over the public's trust in Government and how public services are funded, delivered and accounted for, are now centre stage in both Whitehall and Town Halls. Meanwhile Ministers and Whitehall are gearing up for the 2019 Spending Review and political leaders increasingly see the need for fiscal renewal. However, persuading the public to have confidence in the Government's spending of their taxes is essential to keeping the state fit, funded and functional. It is against this backdrop that David Walker and John Tizard are calling for a radical rethink about the impact of expenditure and how it is accounted for.

The authors not only set out the case for a more devolved, more accountable and more reliable system, but offer ambitious proposals for unifying the way public services are assessed to ensure they are delivering effectiveness, fairness and value for money. They call for new agencies, including an independent Office of the 3Es (effectiveness, efficiency and equity), a change to the remit of the National Audit Office (NAO) and a new Public

Interest Appraisal Unit. These reforms alone won't restore the public's trust in Whitehall and Westminster's or local government's credibility regards public expenditure, but they could make an important improvement.

Kerslake B, Walker D, and Tizard J, The Smith Institute (2019), *Spending fairly, Spending well: time for a radical overhaul of value for money and public audit* [online]. Further information and access to the report is available at: www.smith-institute.org.uk/book/spending-fairly-spending-well-time-for-a-radical-overhaul-of-value-for-money-and-public-audit/ [accessed 25 February 2019]

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 25 February 2019]

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Safe as Houses 2: A follow-on report into the impact of Universal Credit on Southwark Council's housing tenants rent payment behaviour

This report was commissioned by the London Borough of Southwark. Its purpose is to examine the impacts that Universal Credit (UC) has had on the rent payment behaviours of the borough's own social housing or 'council' tenants.

To meet this objective the report scrutinises and compares the experiences of two groups of tenants that have transitioned onto UC at different times: the first doing so between August-October 2016 and the second between August-October 2017.

The analysis in this report follows on from the Smith Institute's previous UC impact study for Southwark Council, '*Safe as Houses: the impact of Universal Credit on tenants and their rent payment behaviours in the London boroughs of Southwark and Croydon, and Peabody*' (October 2017).

The previous study, which involved other social landlords whose tenants were affected by the early experience of UC full service rollout, examined the impact of UC roll-out on rent payments among those claiming the new benefit compared with those on Housing Benefit (HB).

This latest study draws on that research and seeks also to understand the longer-term impact of UC on rent payment behaviour. The report also addresses whether the rent payment behaviour of the new cohort (the 2017) group, who started claiming UC after the system had more time to bed in, was different, and, if so, in what way?

The analysis is exclusively focused on tenant's rent accounts. It does not examine the human cost and personal impacts of UC, which were explored in the previous the report. Nor does the analysis provide details on the extremely costs either to tenants (such as increased levels of personal debt to cover rent when waiting for UC payments) or to the landlord (increased cost and workloads of officers supporting tenants). The analysis reflects the experience of those who are known to have made an effective claim for UC either between August and October 2016 or August and October 2017. The Council has no way of knowing whether any of those who claimed UC continued to do so, or for what period. What the Council does know is that all those whose rent accounts were analysed for purposes of the research had "migrated" to UC and the new arrangements for meeting housing cost support for those of working age reliant on the benefit system to help pay their rent that were an integral feature of UC.

These findings do not take account of several significant changes to UC policy announced in Budget 2017 and that were fully implemented from April 2018 – for example the abolition of the seven-day waiting period and the introduction of a two-week housing benefit run-on. The impacts of those changes will be considered as part of a planned, third wave of *Safe as Houses* research, results of which are expected to be available in spring 2019.

Hunter P, Smith Institute (2018), '*Safe as Houses 2: A follow-on report into the impact of Universal Credit on Southwark Council's housing tenants rent payment behaviour*' [online]. Further information is available at: www.smith-institute.org.uk/book/safe-as-houses-2-a-follow-on-report-into-the-impact-of-universal-credit-on-southwark-councils-housing-tenants-rent-payment-behaviour/ [accessed 25 February 2019]

Further information and access to the series incl.: **All Reports; Housing; Other policy areas** Tagged with: 2018.

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 25 February 2019]

Related Link:

Hunter P, Smith Institute (2017), *'Safe as houses: The impact of universal credit on tenants and their rent payment behaviour in the London boroughs of Southwark and Croydon, and Peabody'* [online]. Further information is available at: www.smith-institute.org.uk/book/safe-houses-impact-universal-credit-tenants-rent-payment-behaviour-london-boroughs-southwark-croydon-peabody/ [accessed 25 February 2019]

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The hidden costs of poor quality housing in the North

Sub-standard private housing is a major problem in the North, yet the issue is overlooked and rarely discussed. The problem affects all three regions and is a particularly urgent concern for many older homeowners. Nearly 1m owner-occupied homes in the North now fail to meet the decent homes standard in addition to 354,000 private rented homes. This is also a national problem, but worse in the North where there are concentrations of pre-war, low value properties.

There have been improvements in housing conditions across the North, notably for social housing (only 9% of social housing is now non-decent), but more and more private homes are falling into disrepair. Nearly half of all non-decent homes in the North have at least one person with a long-term illness or disability or over 60 – well above the England average. Poor condition housing harms people's health and well-being. It also carries considerable costs for the NHS and social care system, as well as negative economic, welfare and environmental impacts.

The problem is largely hidden and has been made worse by the economic downturn and a national policy bias towards new build in high demand (mainly Southern) areas. Making all homes in the North decent would be a significant cost, through there is strong evidence that this intervention would be offset against reduced care and health costs. The government could start to address this challenge through increased home improvement grants under a new Decent Private Homes programme and new devolution housing deals, part funded by the savings gained from housing improvements and a creative approach to help people to stay in improved homes or be given the choice to move to a property they are confident better suits their needs.

Opening the debate on the costs and benefits of poor condition homes in the North is an important first step in developing such an agenda for change.

Further information and access to the series incl.: **All Reports, Housing**. Tagged with: **2018**

The Smith Institute (2018), *'The hidden costs of poor-quality housing in the North'* [online]. Further information is available at: www.smith-institute.org.uk/book/the-hidden-costs-of-poor-quality-housing-in-the-north/ [accessed 25 February 2019]

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 25 February 2019]

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#notjustfor boys / women in construction

- This collection of essays highlights the barriers to working in the construction industry that women face and demonstrates how things can be improved

It is two years since The Smith Institute first published this collection of essays. Over that time the number of women in work has increased to nearly half the workforce, with many more in professional and technical jobs. Unfortunately, one area where change has been less forthcoming is the number of women working in construction and the manual trades.

Nevertheless, efforts are being made by employers, unions, professional organisations, government, schools, training agencies and others to encourage more women into the construction industries and offer support once in work. This kind of concerted action to significantly improve both recruitment and retention is far from easy,

but as the Construction Youth Trust's #notjustforboys campaign (more details are at the end of the report) shows misconceptions, prejudice and bad practices that are at the root of the problems can be over-turned and young people can be inspired to think differently. Worsening skills shortages and the prospect of post-Brexit restrictions on migrant labour mean UK construction will have to recruit more women. Failure to act will damage our future prosperity.

Jowett A, Bagilhole B, Townley C [et al.], September 2016, *#notjustforboys – women in construction* [online]. Further information and access to the report is available at: www.smith-institute.org.uk/book/notjustforboys-women-construction/ [accessed 25 February 2019], London: The Smith Institute

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 25 February 2019]

Related links:

The Guardian picture essay – **Women in construction: building a career in a challenging environment**

- Guardian photographer Alice Canter photographs 12 women working in the UK construction industry and talks to them about their experiences.

Canter A (2018) 'The Guardian picture essay – Women in construction: building a career in a challenging environment', *The Guardian* [online], 8 October. Available at:

www.theguardian.com/business/2018/oct/08/women-in-construction-building-a-career-in-a-challenging-environment [accessed 25 February 2019]

Balsamini D (2018) 'Construction company rolls out first inclusive 'at work' signs', *New York Post* [online], 8 December. Available at: <https://nypost.com/2018/12/08/construction-company-rolls-out-first-inclusive-at-work-signs/> [accessed 25 February 2019]

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National Trust (NT) - Big Issues (incl. 'Transport & Tourism' and 'Land-use & planning') and their views

The National Trust is 'a charity that works to preserve and protect historic places and spaces – for ever, for everyone' (NT, 2015). The National trust protect historic houses, gardens, mills, coastlines, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages and pubs. While they are very passionate about open spaces and historic places, they also work hard in other areas too, including the environment, food, farming, transport and heritage – to name but a few.

Most of the work they do though is affected by much wider global issues, which is why their interests extend far beyond just bricks and mortar.

The National Trust [online] and available @ www.nationaltrust.org.uk/ [accessed 25 February 2019]

Please refer to

'The National Trust' 

'Our cause'  and select either

Nature & Wildlife; Heritage (including information on Building Conservation); **News; Land & Landscape** (including information on Landscape, Coastline and Energy); **&/or Food**

The National Trusts work can be affected by wider national even global issues. Further information is available @ www.nationaltrust.org.uk/our-views [accessed 25 February 2019]

NT, Big issues - Transport and tourism –

- The NT, Big issues - Transport and tourism and how special places have been impacted by the High-Speed Rail 2





Source: The National Trust (2018), What we do, Big Issues, Transport and tourism [online]. Further information is available @ www.nationaltrust.org.uk/our-views [accessed 25 February 2019]

Social Media Links to follow for National Trust:

&

NT, Big issues – Land & Landscape (incl. Land-use & planning)

Please refer to

- 'The National Trust' 
- 'Our cause' 
- 'Land & Landscape' 
- 'Landscape'  and select
- 'Land-use & Planning' 

Where you can access The National Trusts 'Planning Principles' and an article on '*Planning at a national level*' **Land-use and planning** [online]. Further information is available at: www.nationaltrust.org.uk/features/land-use-and-planning [accessed 25 February 2019]

Reference:

Land & Landscape (including information on Landscape, Coastline and Energy) [online]. Further information is available at: www.nationaltrust.org.uk/land-and-landscape [accessed 25 February 2019]



<https://twitter.com/nationaltrust/> [accessed 25 February 2019],



<https://www.facebook.com/nationaltrust> [accessed 25 February 2019],



<https://www.youtube.com/user/nationaltrustcharity/> [accessed 25 February 2019]

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Why the National Trust cares about planning

Land-use planning is a key tool to help the National Trust look after the nation's special places. It can also help society to create great places for people to live, work and play, and deliver a healthier, more beautiful natural environment – two key parts of the new National Trust strategy. That's why they regularly take part in the planning system and support a plan-led system to deliver good development which meets long term needs.

An effective planning system guides good, necessary development to the right places, making an important contribution to prosperity and growth. It ensures that poorly designed developments and those in the wrong place don't get built. It delivers the new homes, shops and services that communities want, where they want them. And it protects the things that matter to us all; from much-loved open spaces, green fields and productive agricultural land to our historic city centres, towns and villages.

A planning system should:

- Be balanced - to integrate environmental, social and economic concerns
- Safeguard the public's interest - protect countryside, heritage and nature
- Start from what people value about their place

National Trust (2018), *Why the National Trust cares about planning* [online] and further information is available at @ www.nationaltrust.org.uk/features/land-use-and-planning [accessed 25 February 2019]

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National Trust – “Our planning principles”

“Our planning principles are used to guide us in our decision-making on the way land is developed and managed.” (National Trust, 2016)

These principles are used to guide the National Trust in their decision making about land use and planning incl.

Seeking to influence – The National Trust seek to influence the Planning system at local, regional and national levels in accordance with their statutory purpose and will promote an integrated approach to sustainable development.

Supporting spatial planning – The National Trust support spatial planning which takes a holistic approach to the environment and its resources, plans long-term, looks at the landscape, catchment or coastal ‘cell’ scale and considers climate change implications.

Sensible management – The National Trust promote the wise management of the natural environment and built and cultural heritage, for our future generations, and will support high design quality.

Protecting our environment – The National Trust will seek to protect wild and remote landscapes from built development or urbanisation, especially where it impacts on their properties.

Using property management plans – In managing its land through property management plans, the National Trust will support and help to achieve the objectives of any designated landscape, wildlife, or historic sites and arenas.

Objecting to proposals, where appropriate – The National Trust will object to land use or marine-based proposals that have a significant adverse impact on its properties and their settings and context, or in its wider interests.

Using a sustainable construction approach – When proposing development on their land to meet justified needs, the National Trust will use a sustainable construction approach. This will include:

- Minimising resource use and generation of waste,
- Being energy efficient,
- Minimising or preventing all types of pollution and risk of flooding,
- Safeguarding important wildlife, landscape and historic interests,
- Respecting local/regional distinctiveness, supporting local sources for goods and services where practical, and
- Encouraging community involvement and access

National Trust (2018), *Our planning principles* [online] and further information is available @ www.nationaltrust.org.uk/features/our-planning-principles [accessed 25 February 2019]

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National Trust – “How we engage in planning: our role as a developer”

“We are an independent conservation charity looking after a quarter of a million hectare of land, 775 miles of coastline, hundreds of houses and thousands of archaeological monuments and historic buildings, large and small.” (National Trust, 2016)

The National Trust’s planning procedure

In the course of National Trust work, they’re responsible for some new development. Whether it’s for a new visitors’ centre or a new green energy project, this means that they’re a participant in the planning system. Sometimes they apply for a change of use of a building to give it a productive future use or to aid farm or estate diversification.

Very occasionally the National Trust seek to develop ‘investment’ land to meet an identified housing need. Sometimes donors specifically offer land with development potential to help pay for conservation work in the future.

The National Trust's conservation purposes are paramount so in all cases where they apply for planning permission, they look to include sustainable development principles, seeking to minimise resource use, waste and pollution; safeguard landscape, wildlife and historic interest; respect local distinctiveness; and provide better access, and a safe and healthy environment.

The National Trust have developed the following criteria to ensure only suitable projects proceed:

- Adhere to the policies in the relevant local plan.
- Deliver energy efficiency and reduce carbon dioxide emissions.
- Build in harmony with the local environment, built and natural.
- Involve the local community throughout the process.

The vast majority of National Trust land is held forever, for everyone. Less than 0.01% is currently allocated for housing in local plans and proposed for development by the Trust.

When the National Trust release land for development, they aim to use it to show what good housing can look like.

The National Trust sell land for development when they are completely satisfied that any proposed scheme is the best possible solution for the area and passes a rigorous set of design and environmental standards they apply as part of their decision-making process.

Some case studies are provided and include:

- Pyrland, Taunton, Somerset
- Dean Park, Bovey Tracey, Devon
- Erddig, near Wrexham, North Wales
- Stamford Brook, Cheshire

For further information and access to these case studies, visit

Source: National Trust (2018), *How we engage in planning: our role as a developer* [online] and further information is available @ www.nationaltrust.org.uk/features/how-we-engage-in-planning-our-role-as-a-developer [accessed 25 February 2019]

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Planning at a national level

- Across England, Wales and Northern Ireland, the National Trust look after a quarter of a million hectares of land, 775 miles of coastline, and thousands of archaeological monuments and historic buildings, large and small. Every year many millions of people enjoy the special places in the National Trust's care.

The National Trust's role - As an organisation rooted in the importance of place, the Trust has always looked beyond its own boundaries to achieve its core purpose. Founded to preserve and provide access to places of natural beauty or historic significance, the National Trust supporters were a voice against urban sprawl and ribbon development in the 1920s, and advocates of the Town and Country Planning Act, which became law in 1947.

Government's planning rules for housing development and land use – The Government's National Planning Policy Framework (NPPF) is the main set of rules that apply to planning decisions and local plan-making in England. The NPPF, introduced in March 2012, should ensure that development is steered to the most appropriate places. Planning development should not be weighted in the interests of purely economic development, but integrate the needs of people, places and the economy.

When the NPPF was being drawn up, the Prime Minister wrote to the National Trust to reassure them that 'our magnificent countryside' would continue to be protected. The Prime Minister at the time said the reforms would 'maintain protections for the green belt, for National Parks and Areas of Outstanding National Beauty,' and would 'strengthen local participation'.

Monitoring Government’s plan-led system – Since the NPPF came into force in March 2012 the National Trust has been checking that the Government’s intentions are being delivered at ground level.

For further information, visit

National Trust (2018), *Planning at a national level* [online] and further information is available @ www.nationaltrust.org.uk/features/planning-at-a-national-level [accessed 25 February 2019]

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Planning at a local level

- At a local level, the National Trust monitor planning proposals that are likely to affect the special place in their care.

The National Trust deal with proposals ranging from anything from a house extension, through to large residential or commercial development, to new road or airport infrastructure. These will often be proposals adjacent to National Trust land, but development some distance away can also have implications on special places, for example in the form of traffic generation, or loss of habitat.

The vast majority of applications will not be an issue for the National Trust. For others, they may object, or suggest some conditions, to those which compromise National Trust purposes and sustainable development principles, or – very rarely – if they feel an unfortunate precedent might be set.

Through informed involvement, the National Trust have been able to negotiate real environmental improvements in schemes like complex infrastructure proposals, for instance on road or rail alignments.

Where it is helpful to National Trust interests, they seek to influence local transport plans, shoreline management plans, and river basin management plans.

For further information, visit

National Trust (2018), *Planning at a local level* [online] and further information is available @ www.nationaltrust.org.uk/features/planning-at-a-local-level [accessed 25 February 2019]

Related links:

GOV.UK (2018), Ministry of Housing, Communities and Local Government, published: 29 November 2016, last updated: 24 July 2018, Collection: *Planning practice guidance* [online]. Available at: www.gov.uk/government/collections/planning-practice-guidance [accessed 25 February 2019]

GOV.UK (2018), Ministry of Housing, Communities and Local Government, published: 27 March 2012, last updated: 24 July 2018, Policy Paper: *National Planning Policy Framework* [online]. Available at: www.gov.uk/government/publications/national-planning-policy-framework--2 [accessed 25 February 2019]

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Upcoming Revo (formerly BCSC) Research

Revo (formerly BCSC) continues to develop a research programme that reflects industry knowledge requirements. They continue to undertake challenging projects and are seeking to find a balance between in-depth research and other shorter forms of guidance. Revo (formerly BCSC)'s committees continue to help shape and steer our research and it is through this process that topical and under-researched areas are explored.

Some recently published research includes:

- Beyond Retail: Redefining the shape and purpose of town centres
- CCTV in Shopping Centres and Associated Car Parks
- Building Information Modelling (BIM) – Guide to Best Use
- Protection of Vulnerable People
- Servicing Areas for Shopping Centres

Further Research + Education information and access to documents can be found at Revo community (formerly British Council of Shopping Centres (BCSC)), Research and Education, and **Document listing** [online] available @

www.revocommunity.org/documents/list [accessed 25 February 2019] and www.revocommunity.org/insights [accessed 25 February 2019]

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Foster + Partners Projects

Foster + Partner is one of the most innovative architecture and integrated design practices in the world. Over the past four decades the practice has pioneered a sustainable approach to architecture through a strikingly wide range of work, from urban masterplans, public infrastructure, airports, civil and cultural buildings, offices and workplaces to private houses and product design. Based in London, with offices worldwide, the practice has an international reputation, with buildings in six continents. By visiting their website, you can gain further information about their current and past work, upcoming projects and gain access to the following:

- Image gallery,
- Sketches and drawings,
- Construction,
- Facts & Figures, and
- Project downloads

Available via the Foster + Partners website [online] and @ www.fosterandpartners.com/projects/ [accessed 25 February 2019]



<https://twitter.com/FosterPartners> [accessed 25 February 2019],



<https://www.facebook.com/fosterpartners> [accessed 25 February 2019],



<https://www.linkedin.com/company/foster-&-partners> [accessed 25 February 2019],



<https://www.youtube.com/user/FOSTERANDPARTNERS1> [accessed 25 February 2019]

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Building Information Modelling (BIM) -

What is Building Information Modelling?

-There are many definitions of Building Information Modelling (BIM), but it is simply the means by which everyone can understand a building through the use of a digital model. Modelling and asset in digital form enables those who interact with the building to optimize their actions, resulting in a greater whole life value for the asset.

Through BIM the UK construction industry is undergoing its very own digital revolution, BIM is a way of working; it is information modelling and information management in a team environment, all team members should be working to the same standards as one another. BIM creates value from the combined efforts of people, process and technology.

Source: National Building Specification (NBS), 19 July 2016, '*What is Building Information Modelling (BIM)?*' [theNBS.com](http://www.thenbs.com/knowledge/what-is-building-information-modelling-bim) website [online]. Further information is available at www.thenbs.com/knowledge/what-is-building-information-modelling-bim [accessed 25 February 2019]

Note: Further information can also be accessed through the above provided web link on: **BIM (Building Information Modelling)** and access to **'what is BIM' video**.

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The future of construction – [BIM](#)

Building Information Modelling (BIM) can be a valuable tool in the hands of anyone who works in construction. There's no doubt that, the concept of collaborative working is becoming more and more popular through the years. That's why, it's critical for all construction agents to be aware of the different BIM maturity levels:



Source: [Designing Buildings.co.uk Wiki](#), (2017) 'The future of construction - BIM' [online], last edited 19 June 2017. Available at: www.designingbuildings.co.uk/wiki/The_future_of_construction_-_BIM [accessed 25 February 2019]

What BIM actually is

To put it simply, BIM refers to a collaborative method of working which is based on the generation and exchange of data and information between the various project parties. Based on this information the full cycle of a building, from conception to completion, can be managed, In that sense, it's an indispensable part of the decision-making process. BIM started gaining attention in the 90's and it has evolved remarkably during the last decades.

There are different levels of shared collaboration in a construction project. Those are known as BIM maturity levels. As we proceed through the levels, the collaboration between the various sides is increasing. At the time being, there are four distinct BIM maturity levels (as shown in the figure above).

Access and further information are provided via the following:

Source: [Designing Buildings.co.uk Wiki](#), (2017) 'The future of construction - BIM' [online], last edited 19 June 2017. Further information is available at: www.designingbuildings.co.uk/wiki/Home_and_www.designingbuildings.co.uk/wiki/The_future_of_construction_-_BIM [accessed 25 February 2019]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wiki are increasingly being used by people in the academic community, as an easy source of information about anything and everything. However, citation of Wikipedia may not be considered acceptable, because Wikipedia is not a creditable source.

It is important to note that whilst Wikipedia may be one of the Web's most popular reference sites, it is not classed as a credible resource because anyone can be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.
 - An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journal articles and other appropriate and credible resources. What you find in these other sources of information will be more detailed, more precise, and more carefully reasoned than the summary you found in an encyclopaedia. The sources you reference/cite in your work will therefore be these more detailed sources you have used.
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The National Building Information Modelling (BIM) Library –

Source: NBS (2016), *NBS National BIM Library* [NBS website > Home > Services > Our Tools > NBS National BIM Library] NBS [online] and available at: www.thenbs.com/services/our-tools/nbs-national-bim-library & NBS homepage [online] and available at: www.thenbs.com/ & NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 25 February 2019]

Latest information freely available to access and download incl. **Introducing the BIM Toolkit** [online]. Available at: www.thenbs.com/topics/BIM/articles/NBS-live-introducing-the-BIM-toolkit.asp [accessed 25 February 2019]

The National BIM (Building Information Modelling) Library is the construction industry's free-to-use resource of NBS standard BIM content.

- **BIM (Building Information Modelling)**

The revolutionary force of Building Information Modelling continues to reverberate insight and analysis on BIM from NBS incl.

- **NBS Services for BIM**

NBS Services for BIM Projects; NBS Create; NBS Toolkit; NBS National BIM Library; and NBS Plug-ins

- **Further information and guidance incl.**

NBS National BIM Survey 2016; What is BIM? Levels of Information; Employers' information; Are you BIM ready? And latest articles relating to BIM

Source: NBS (2016), *NBS National BIM Library* [online] and available at: www.thenbs.com/services/our-tools/nbs-national-bim-library & NBS homepage [online] and available at: www.thenbs.com/ & NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 25 February 2019]

New Building Specification (NBS), NBS TV - the online video resource servicing built environment professionals.

- Case Studies • Technical Guidance • Interviews • Leading Industry Figures incl.

Watch now on NBS TV ⇒ Design and Specification, and Building Technologies – NBS round-up latest articles featuring video content

Source: The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website **@theNBS** [online]. Further information is available at: www.thenbs.com/knowledge/video [accessed 25 February 2019]

The NBS, NBS TV – Design & Specification [online]. Further information and additional programmes are available at: www.thenbs.com/knowledge/design-specification [accessed 25 February 2019]

The NBS, NBS TV – Building Technologies, *Lighting Technology – Building in Efficiency* [online]. Further information and additional programmes are available at: www.thenbs.com/knowledge/lighting-technology-building-in-efficiency [accessed 25 February 2019]

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NBS BIM Toolkit BETA update -

The NBS BIM Toolkit is the easy way to define who is doing what, and when, on your Level 2 BIM projects.

Further information can be accessed at The National BIM Library [online] and available @ www.thenbs.com/services/our-tools/nbs-bim-toolkit [accessed 25 February 2019]

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NBS National Building Information Modelling (BIM) [Survey 2019](#) free to download –

- It's that time again ... tell us what you think about BIM.

More than two years after the Government's 2016 mandate for collaborative 3D BIM on all publicly-funded projects, we want to know your thoughts on BIM. Have you adopted it? How embedded is it into your organisation? How is the industry doing at defining level 3 BIM?

The NBS National BIM Report has become an essential resource for both construction professionals and policy makers alike. Have your say by taking part in this ninth survey.

The survey is very similar to previous years looking at:

- Awareness of BIM and the levels
- Whether people have adopted it, and on which types of projects and percentage of projects
- Attitudes of those adapting it versus those who haven't e.g. will it help win new work, has it required changes to processes, etc
- Barriers to adoption where people haven't started using it
- The government and progress to defining level 3 e.g. has the mandate been successful? Is the industry maintaining momentum to level 3 BIM? Have the government been successful at maintaining this momentum?

NBS National BIM Survey 2019 -

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Survey 2019 @theNBS* [online] and available at: www.thenbs.com/knowledge/nbs-national-bim-survey-2019 [accessed 25 February 2019]

NBS National BIM Report 2018 -

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2018 @theNBS* [online] and available at: www.thenbs.com/knowledge/the-national-bim-report-2018 [accessed 25 February 2019]

NBS National BIM Report 2017 -

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2017 @theNBS* [online] and available at: www.thenbs.com/knowledge/nbs-national-bim-report-2017 [accessed 25 February 2019]

NBS National BIM Report 2016 -

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2016 @theNBS* [online] and available at: www.thenbs.com/knowledge/national-bim-report-2016 [accessed 25 February 2019]

NBS International BIM Report 2016

- The second NBS International BIM Survey, carried out by NBS, working closely with the International Construction Information Society, provides a fascinating insight into BIM adoption and maturity across five diverse countries.

Source: The NBS (a trading name of RIBA Enterprises Ltd), 25 February 2016, National BIM Library website, Knowledge, *NBS International BIM Report 2016* [online]. Further information and access to the report in full are available at: www.thenbs.com/knowledge/nbs-international-bim-report-2016 [accessed 25 February 2019]

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[Blogging about BIM, Construction and NBS](#)

Source: The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website [online]. Further information and access to the BLOG are available at: <http://constructioncode.blogspot.co.uk/2015/04/nbs-national-bim-report-2015.html> [accessed 25 February 2019]

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Latest News on BIM -

[New international BIM standard launched](#)

- The first two parts of a new international BIM standard have been published, providing a framework for managing information through collaborative working using BIM.

They form part of ISO 19650, Organisation and digitisation of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling.

Part 1 deals with concepts and principles, while part 2 covers the delivery phase of the assets.

Jøns Sjøgren, chair of the ISO technical subcommittee that developed the standards, said they will enable more widespread use of BIM and lead to more efficient building and infrastructure projects.

He said: “ISO 19650 was developed on the basis of the tried-and-tested British standard BS 1192 and publicly available specification PAS 1192-2, which have already been shown to help users save up to 22% in construction costs.”

“Taking this to an international level not only means more effective collaboration on global projects, but allows designers and contractors working on all kinds of building works to have clearer and more efficient information management.”

Future standards in the series include a Part 3 on managing the operational phase of assets and a Part 5 dedicated to security-minded building information modelling, digital built environments and smart asset management.

ISO 19650-1 and ISO 19650-2 were developed by ISO technical committee ISO/TC 59, Buildings and civil engineering works, subcommittee SC 13, Organisation and digitization of information about buildings and civil engineering works, including building information modelling (BIM).

For further information, please visit:

CM staff (2019) ‘New international BIM standard launched’, *Construction Manager* [online], 22 January.

Available at: <http://www.constructionmanagemagazine.com/news/new-international-bim-standard-launched/> [accessed 25 February 2019]

Related Links:

- 1) CDBB (2018) ‘Centre for Digital Built Britain (CDBB) Year one Report: Towards a digital built Britain’ [online]. Available at: www.cdbb.cam.ac.uk/news/2018CDBBYear1Report [accessed 25 February 2019]
- 2) Kosandiak S, and Philp D, BIM+ Staff (2018) ‘The UK move to International BIM standards’, Chartered Institute of Building (CIOB) website [online] 7 October. Further is available at: www.bimplus.co.uk/people/uk-move-iso-bim-standards/ [accessed 25 February 2019]
- 3) GCR Staff (2018) ‘US company develops “spell checker” for BIM code violations’, *Global Construction Review (GCR)*, Chartered Institute of Building (CIOB) website [online] 22 June. Further information is available at: www.globalconstructionreview.com/news/us-company-develops-spell-checker-bim-code-violati/ [accessed 25 February 2019]

- 4) BIM+ Staff (2018) 'First international BIM standards to be published this year', Chartered Institute of Building (CIOB) website [online] 10 June. Further information is available at: www.bimplus.co.uk/news/first-international-bim-standards-be-published-yea/ [accessed 25 February 2019]
- 5) Cousins S (2018) 'Blockchain could hold the key to unlocking BIM Level 3' [online], London: CIOB. Available at: www.bimplus.co.uk/news/blockchain-could-hold-key-unlocking-bim-level-3/ [accessed 25 February 2019]
- 6) CIOB (2018) 'Bentley launches guide to BIM' [online]. Available at: www.bimplus.co.uk/news/bentley-launches-guide-bim/ [accessed 25 February 2019]
- 7) Coleman A (2017), Chartered Institute of Building (CIOB) – 'Me and my project: BIM and demolition', *Construction Manager* [online], 5 October. Available at: www.constructionmanagermagazine.com/onsite/me-and-my-project-demolition-design/ [accessed 25 February 2019].
- 8) Papadonikolaki E and Azzouz A (2017), Chartered Institute of Building (CIOB) – 'How your 'BIM champions' can be the key to success', *Construction Manager* [online], 5 September. Available at: www.constructionmanagermagazine.com/opinion/how-your-bim-champions-can-be-key-success/ [accessed 25 February 2019].
- 9) Butcher S (2017), Building Research Establishment (BRE) – '**Bringing BIM back to reality**', *Building4Change* [online], 15 June. Available at: www.building4change.com/article.jsp?id=2829#.WVEI6-vytEY [accessed 25 February 2019] **ARTICLE #2829** (BRE).
- 10) Snook, K., 18th May 2015, Building Research Establishment (BRE), *Building4Change*, *Back to BIM Basics* [online] and available at: www.building4change.com/article.jsp?id=2644#.VqpB-fmLRaS [accessed 25 February 2019], **ARTICLE #2644** (BRE). - In the rush towards a BIM-enables construction, we should remember what lies at the core of BIM

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Latest library resources Incl. new book titles, journal articles and research

Taylor & Francis / Routledge (an **informa** business) is internationally acclaimed for its high quality, peer-reviewed research, covering physical and biological science, mathematics, engineering, and computer science. **Routledge (Taylor & Francis group)** is a renowned name in academic and professional books, journals and online resources relating largely to the humanities, social sciences, the **Built Environment and Sustainability**.

Within 'Built Environment' section, subject categories incl.

- Architecture
- Building and Construction
- Energy
- Health and Safety
- Landscape
- Planning (incl. [Rural Planning](#))
- Property
- E-books: Built Environment

Other collections incl.

- Real Estate Development
- Property Inspection and Maintenance
- Real Estate Management
- Housing and Urban Regeneration
- Property and Real Estate Law
- Economics and Finance
- Valuation and Surveying
- [Property and Real Estate catalogue](#)
- [Property, Construction and Real Estate, Student Edition](#)

Taylor & Francis Open and **Routledge Open** - Taylor & Francis and Routledge currently publish several pure open access journals, with **no subscription** content. The articles in these journals receive both rigorous peer review and expedited online publication @ www.tandfonline.com/page/openaccess [accessed 25 February 2019] For further information, please visit **Taylor & Francis online, FREE-to-view compilations** [accessed 25 February 2019].

Have you ever wanted a quick snapshot of one of our series but didn't know where to start?

Taylor and Francis Online have compiled a selection of chapters from some of the new and key books + created individual e-books covering a range of subject areas Incl.

Further information is available at **Taylor and Francis Online**, via www.tandfonline.com/ and www.routledge.com/reference/posts/4970?utm_source=plan&utm_medium=cms&utm_campaign=sbu3_vej_3rf_8cm_3pla_rf2v15_bls15_x_plan [accessed 25 February 2019]

The Routledge Sustainability Hub — An innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability. Further information can be accessed [online] and available at www.routledgetextbooks.com/textbooks/sustainability [accessed 25 February 2019]

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RICS Library services and e-Resources



Source: UCEM (2016)

RICS (Royal Institution of Chartered Surveyors) is an international professional body and represents everything professional and ethical in land, property and construction. RICS promotes and enforces the highest professional qualifications and standards in the development and management of land, real estate, construction and infrastructure. Their expertise covers property valuation and management; the costing and leadership of construction projects; the development of infrastructure; and the management of natural resources, such as mining, farms and woodland. RICS Library Services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 25 February 2019].

RICS Library services and e-Resources – Similar to the UCEM e-Library, RICS uses DawsonEra as their eBook platform as well as subscribing to EBSCO and Emerald e-Journals. However, whilst RICS only subscribes to 6 specialised Engineering, Construction and Architectural Management titles, **Note:**

UCEM Library services and e-Resources incl. Emerald Insight – Access provided to the ‘Property Management and the Built Environment’ collection

UCEM students and staff have access to over 120 Full-Text Journals within ‘Emerald Management e-Journals’, in addition to the entire (including Backfiles) ‘Property Management and the Built Environment’ collection including the following titles:

- Built Environment Project and Asset Management
- Construction Innovation: Information, Process, Management

- Engineering, Construction and Architectural Management
- Facilities
- International Journal of Housing Markets and Analysis
- Journal of Corporate Real Estate
- Journal of Engineering, Design and Technology
- Journal of Facilities Management
- Journal of Place Management and Development
- Journal of Property Finance
- Journal of Property Investment and Finance
- Journal of Property Valuation and Investment
- Property Management
- Smart and Sustainable Built Environment
- Structural Survey



NOTE: For the above link to work you must ensure that you are logged-in to **Athens via the VLE e-Library**

Please also refer to the **UCEM e-Library portrait** and **Journal Review** mentioned below that shows a wealth of additional and valuable resources that the UCEM Library offers.

Please also note the **RICS Library Online catalogue** which is an excellent resource. Available at: <http://unicorn.rics.org/uhtbin/cgisirsi.exe/0/0/0/60/69/X> [accessed 25 February 2019]

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& finally

Industry predictions 2019: Engineering, construction and infrastructure

- 2019 will see a digital leap forward as many construction companies explore implementing integrated business software into projects for the very first time

Righter margins, global skills shortages and new industry entrants are all ramping up the pressure on traditional construction businesses to deliver greater productivity and more integrated, cost-efficient projects, on time, every time.

Prediction #1 - 50% of all construction projects worldwide will include modular content by 2022, driven by the growing global skills shortage. In March 2018, a new factory opened outside Liverpool, England employing 150 people 24 hours a day. What does it manufacture? Homes – starting with a first order of 81 homes and 58 apartments, as part of a first-year target of 450 homes. And it’s just one among many. At IFS, in 2018 we had four times greater customer activity around modular construction than in any previous year.

From schools in Ireland to prisons and hospitals in the United States; from sustainable luxury apartments to vast workers’ dormitories, 2018 has seen modular construction go well beyond hype. In 2019 it will get even stronger, with housing shortages a key driver. The UN estimates that over 2 billion new homes will need to be built over the next two years. Modular manufacturing enables affordable houses to be built faster and at higher volume. Modular manufacturing enables affordable houses to be built faster and at higher volume. Drive by a worldwide shortage in skills and housing, increased construction will impact the construction industry massively in 2019.

2019 will see growing number of traditional construction companies begin opening **modular factories** to stay competitive. And more new players enter the industry – from manufacturing, supply chain and logistics, to local governments, banks and insurance companies. Many will be able to offer flexible finance and service packages too. The pressure on incumbent building firms to adapt will be huge. They'll need tighter control and more adaptability over every aspect of their projects. Proving they can, if necessary, partner up with larger networks of suppliers, offer services and maintenance on assets once built, include equipment hire, and yes, even offer or manufacture some modular units or components. It all adds up to an urgency need for better, more integrated digital management of complex, demanding projects.

Prediction #2 – In 2019 more construction companies than ever before will start trying out **integrated business software** – for the very first time. 10% traditional construction firms could go out of business over the next 5 years. Competition around delivery and productivity will be fierce. Many companies will find themselves balanced on a knife-edge of opportunity: On the one hand growing urban populations and housing shortages will mean more demand and higher order intake. On the other, shrinking profit margins and increased competition will mean unprecedented pressure on productivity and delivery. As a result, 2019 will see more firms moving from being document-driven to data-driven. Many will take their first steps into digital and make their first investment in integrated business systems like Enterprise Resource Planning, or ERP. Two main drivers will turn integrated business systems like ERP from a nice-to-have into a need-to-have.

When less is more: Growing pressure on margins – with profit margins as tight as they are, many construction firms feel as if the more business they bring in – the less money they make. A recent Deloitte report found that construction companies' profit margins are under pressure in several European submarkets, with Western Europe particularly vulnerable. In the UK, Belgium, the Netherlands and Ireland profit margins are so narrow they may not even be offset by higher order intake. 31% of the UK's largest contractors reported a fall in margins in November 2017, with the country's largest 10 contractors having a negative average margin of -0.5%.

New entrants: China, Korea ... and Amazon? Global competition is growing powerfully, impacting European construction companies hard. The Engineering News Record's Top 100 Global Contractors In for 2017 found that European firms made up only 23% of the world's Top 100 Global Contractors in 2017. In 2010, 44% had been European. Compare that to Asia, which rose from 41% in 2010 to 51% in 2017, and the big picture is clear. Most analysts predict that China, India and the US will all be winners in the forecasted 8 trillion USD growth expected in construction by 2030 – but not Europe. Companies like China Communications Construction, Hyundai Engineering and Construction and Samsung C&T represent a serious threat to large European incumbents. Taken by revenue alone, even by 2017 the Top Four and seven out of the world's Top Ten largest construction companies were all Chinese. With many able to offer highly competitive and flexible financing packages. As we've seen, the rise in modular is bringing in new entrants from the manufacturing, supply chain and software engineering sectors. And given all this, who knows, could even digital giants like Amazon or Uber one day see construction as a sector ripe for disruption? If so, who'd put money on the industry in its present state surviving the challenge?

The bottom line is that many construction companies are highly exposed. In 2018, we saw huge ongoing efforts to drive efficiencies, increase productivity and establish repeatable delivery. In 2019, the pressure will be even more intense. The need for adaptability has never been more urgent. 2019 will be the year when many companies finally start considering systems like ERP not as isolated back-office finance functions – but essential, joined-up systems that provide urgent coherence, speed and efficiency throughout a project or business. 2019 could be the year when construction takes a giant leap forward, embracing digital adoption.

Prediction #3 – Digital asset life cycle management, integrating both BIM and ERP, will emerge as a future need-to-have

The collapse of Carillion, one of the UK's largest construction giants, sent shockwaves through the construction industry. The company built and maintained major assets such as schools, prisons, hospitals and power stations across the UK – before collapsing 1.7 billion euros in debt, overnight, in January 2018. While analysts have endlessly debated how and why, insiders point to many systemic faults.

Certainly, in a company that size, spread over that many projects, it seems fair to say that without a central, integrated business system it would be all too easy for senior management to get a full picture of the truth. For the truth to be hidden. And for projects to be kept separate and siloed, financially and operationally.

Central to ERP's power for construction companies is its ability to connect and integrate all functions in a project – from finance to operations to design – enabling maximum adaptability. I've always argued that **Building Information Modelling (BIM)** will be a driver of digital asset life cycle management and integration. BIM is an integral part of moving from a document-driven to data-driven world. In 2019, I believe we'll see the first construction companies take their first steps into discussing how to merge and build on the strengths of combining the two systems: BIM and ERP.

Many firms have now started to integrate BIM models into their business. But building BIM on its own without an integrated business system, is only a small part of the picture. As a business system, ERP takes all the functions of the business and provides it with one set of data, enabling it to flow through a project's life cycle all the way from inception to disposal, and enabling any combination of service or asset management in between. For manufacturers, integrating ERP as a whole business system, rather than a single financial tool, is old news. They've been successfully integrating CAD with ERP for years. However, for many companies in the construction industry, that journey remains to be made. But 2019 will see many taking their first, vital steps.

Ingram K (2019) 'Industry predictions 2019: Engineering, construction & infrastructure', *Planning & Building Control Today* (pbctoday) [online], 15 January. Available at: www.infabode.com/ and

www.infabode.com/hubs/general-global-real-estate/hub_posts/88430, and www.pbctoday.co.uk/news/planning-construction-news/industry-predictions-2019/51014/ [accessed 25 February 2019]

Related Links:

UK Real Estate Market Predictions 2019: It's not just the place, it's the people too

- Looking back at 2018, it was the year that Blockchain boomed, many companies (unlike UCEM ☹️) found themselves unprepared as GDPR came into force and we said goodbye to Toys "R" Us in one of the year's many retail collapses.

Source: Dentons (2019) 'UK Real Estate Market Predictions 2019: It's not just the place, it's the people too', *Infabode* [online], 13 February. Available at: www.infabode.com/ and

www.infabode.com/hubs/general-uk-real-estate-market/hub_posts/92229 [accessed 25 February 2019]

Dentons (2019) 'UK Real Estate Market Predictions 2019', YouTube [video]. Available at: www.youtube.com/watch?v=9Ey3SweyAo&feature=youtu.be [accessed 25 February 2019] [10m 02s]

Please note: You can also access InfaBode via section 5 of the VLE e-Library.

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Property and Construction Statistics

RICS Economy and Property Market Chart Book – Q1 2019

- Brexit cloud hangs over the real estate market

The UK economy ended last year (2018) on a relatively soft note and early indications suggest that the first quarter of 2019 was a little better. Predictably enough, it is the uncertainty about the country's future relationship with the EU that is, in no small measure, contributing towards the subdued picture. This is particularly evident in the business world with corporate savings jumping sharply as investment plans are put on hold. Whether matters can be resolved before the March 29th deadline remains to be seen; at this stage, leaving without a deal alongside a possible extension of Article 50 are both also possible. Our judgement is that the

former of these two potential outcomes is likely, at least in the near term, to inflict further damage on the economy, although the policy response and the ability to successfully (and rapidly) put in place alternative trade arrangements will be critical to determining how this plays out over time.

Perhaps partly because companies have been reluctant to commit to capex in the current environment, they have been reliant on employing more labour and this has been clearly visible in the employment statistics. In the three months to November (the latest available data), job creation jumped by 141,000, the biggest gain in seven months. As a result, the employment rate climbed to 75.8%, a record high and the rate of unemployment slipped to just 4%, the lowest since 1975. Against this backdrop, a stronger trend in pay growth is emerging. Wages are now increasing (on an annual basis) at their fastest pace in ten years and, with so little slack left in the labour market, the likelihood is that this firmer trend will be sustained in the absence of a material Brexit shock.

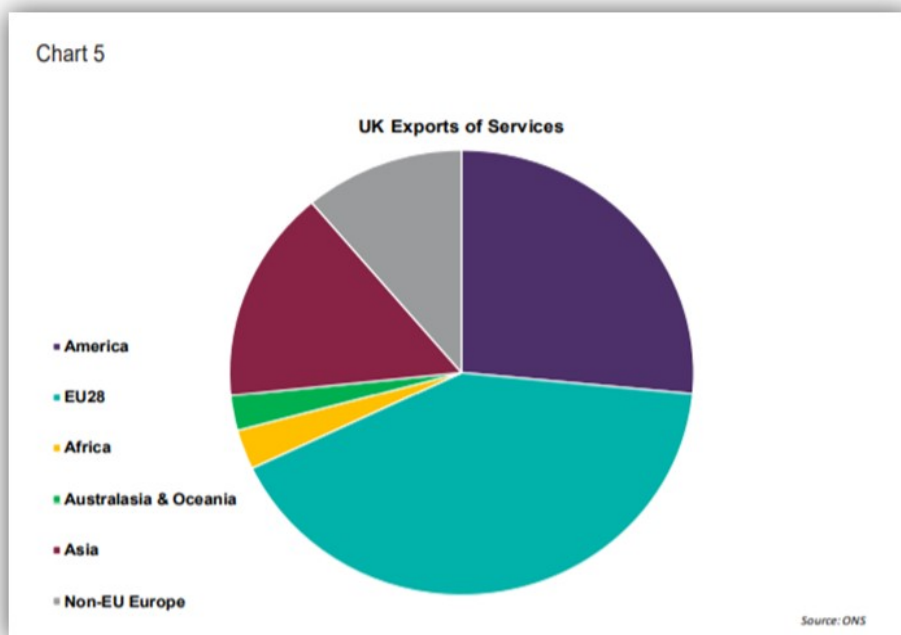
Unsurprisingly, RICS data suggests that heightened level of uncertainty is continuing to impede activity in real estate markets. In the Residential Market Survey, for example (further information is provided later in this issue) comments from respondents overwhelmingly point to the failure to agree a way forward on Brexit having a detrimental effect on market confidence. It is, needless to say, not the only issue highlighted; others include affordability challenges across much of the country, changes in the regulatory and fiscal environment and an ongoing lack of good quality stock.

Turning to the construction industry, the headline RICS workloads indicator is still consistent with an increase in output, albeit the pace of growth has moderated in the latest results. Activity appears to be flatlining across the commercial and industrial segments. In contrast, a new balance of +20% of respondents has reported an increase in private housing activity. This chimes with the improvement in the latest housing supply numbers as net additional dwellings in 2018 came in at 222,190 the highest outturn in a decade.

Source: RICS (2019), Knowledge, RICS Market Surveys – *RICS UK Chart Book and Survey Market Updates, Q1 2019*, RICS, London [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-chart-book/ [accessed 22 February 2019].

Chart 5 – UK Economy

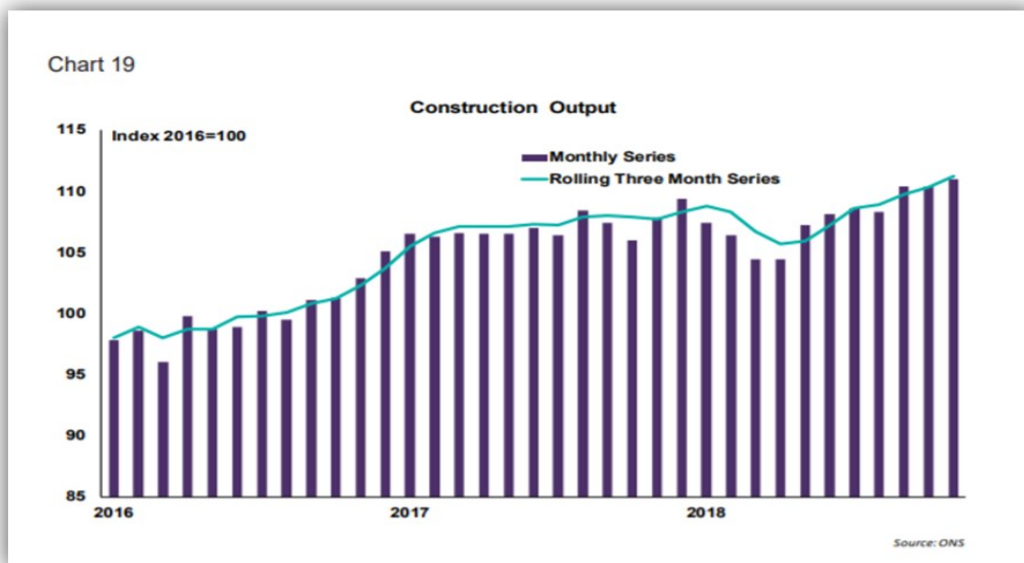
- The trade in services has provide to be particularly important for the UK with service industry making up 80% of the economy. The EU remains the UK's largest export partner for services, which leaves the economy in a particularly vulnerable position as far as any future trade deals between the UK and EU are concerned.



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book (Q1, 2019)*, page 6

Chart 19 – Construction sector

Momentum across the construction industry has picked-up after activity slowed during the first part of last year (2018) due to temporary (largely weather related) factors. It is also worth noting that from the back end of 2016, the underlying trend in the construction industry has been one of growth.



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q1, 2019), page 11

Please note: **RICS > News & Insight > Research > Market Surveys** - RICS Economics' market surveys and reports are freely available from the RICS web site – www.rics.org/uk/news-insight/research/market-surveys/ [accessed 25 February 2019]

These include:

- **UK Residential Market Survey.** **Note: The latest survey, dated January 2019 (see below)**
- Global Commercial Property Monitors – leading indicators of conditions in commercial property occupier and investor markets around the world.
- **Analysis and discussion papers** – In-depth insights on specific markets, sectors and developments.
- Cyprus Property Price Indices – A quarterly price and rental index that tracks property and rental prices across all districts
- Hong Kong Residential Market Survey – a leading sentiment indicator of conditions in the Hong Kong residential sales and lettings markets.
- RICS/Ci Portuguese Housing Market Survey – a leading sentiment indicator of developments in the Portuguese residential sales and lettings markets.
- RICS/RAU Rural Land Market Survey and Land Prices – the leading survey on demand, supply and prices in the farmland market. The RICS/RAU Farmland Market Directory of Land Prices was launched by RICS's Rural Professional Group after the Farmland Market ceased publication.
- **UK Chart Book and Survey Market Updates** – A monthly snapshot of the UK economy, focusing on the construction, housing and commercial property sectors. **Note: For the latest (Q1 2019), please see above.**
- **UK Commercial Market Survey – a leading indicator of developments in the UK commercial property occupier and investor markets.**
- UK Construction and Infrastructure Survey – the leading sentiment indicator of the UK construction and infrastructure markets.

RICS (2019), Research, Market Surveys [online], London: RICS. Available at: www.rics.org/uk/news-insight/research/market-surveys/ [accessed 25 February 2019]

N.B. The RICS published reports, entitled i.e. 'UK Commercial Property Market Survey', can be accessed through **ISURV** [online], available via the **VLE e-Library** and **section 5 – Industry Sources**.

Alternatively, please request a copy from the UCEM Library by emailing library@ucem.ac.uk.

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Latest RICS Research/Market Surveys available - UK Residential Market Survey (2019)

UK Residential Market Survey - A leading sentiment indicator of conditions in the UK residential sales and lettings markets, used by the Bank of England and covered across the media.

The UK Residential Market Survey is used by the Government, the Bank of England and other key institutions, including the International Monetary Fund (IMF), as an indicator of current and future conditions in UK residential sales and letting. It is covered extensively in the media and is the leading source of market intelligence, highly regarded both by investors and across the industry.

The RICS UK Residential Market Survey for January 2019 highlights that 2019 is off to a slow start, showing a subdued backdrop as enquiries, sales and new instructions all fall further.

In the near term, contributors sense little prospect of a turnaround, as concerns over the potential impact of Brexit, alongside affordability constraints continue to cause buyers and sellers to hesitate. However, expectations at the 12-month horizon are modestly positive.

January 2019: UK Residential Market Survey

Short-term indicators point to further weakness

- Activity measures for both buyers and sellers continue to slip
- Price balance softens again at the national level, led by London and the South East
- Lettings market faring better, with demand rising modestly

By visiting the website of the Royal Institution of Chartered Surveyors [online], you can access, read-online and download surveys from the last two years.

For further information, visit the **RICS** website, and select **News & Insight > Research > Market Surveys**, and **UK Residential Market Survey** from the RICS website.

UK Residential Market Survey, January 2019 [online] and available @ www.rics.org/uk/news-insight/latest-news/news-opinion/uk-residential-market-survey-january-2019-a-slow-start-to-the-year/ [accessed 25 February 2019]

RICS.org.uk www.rics.org/uk/ [accessed 25 February 2019]



<https://twitter.com/RICSNews> [accessed 25 February 2019]



<https://www.facebook.com/ricssurveyors> [accessed 25 February 2019]



<https://www.linkedin.com/groups?gid=88902> [accessed 25 February 2019]

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Barbour API's *Economic & Construction Market Review*

- The *Economic and Construction Market Review* provides valuable insight and market intelligence to help forecast new business opportunities and driver marketing activity.

This monthly round up of construction market intelligence combines data on the UK construction industry trends and analysis with data on the economic climate from previous months. Barbour's Lead Economist Michael Dall compiles the monthly *Economics & Construction Review*, so you can rely on the most valuable, and up-to-date information each month.

Economic and Construction Market Review includes:

- UK Economic Trends – The latest GDP, unemployment and economic growth figures
- Construction Sector Performance – The latest construction industry figures including information from the Office for National Statistics, the best performing sectors and the levels of construction contracts from across the UK.

Further information and access to the review is available via

Barbour Index API, *Economic and Construction Market Review* [online]. Available at: www.barbour-abi.com/economic-and-construction-market-review/ [accessed 25 February 2019]

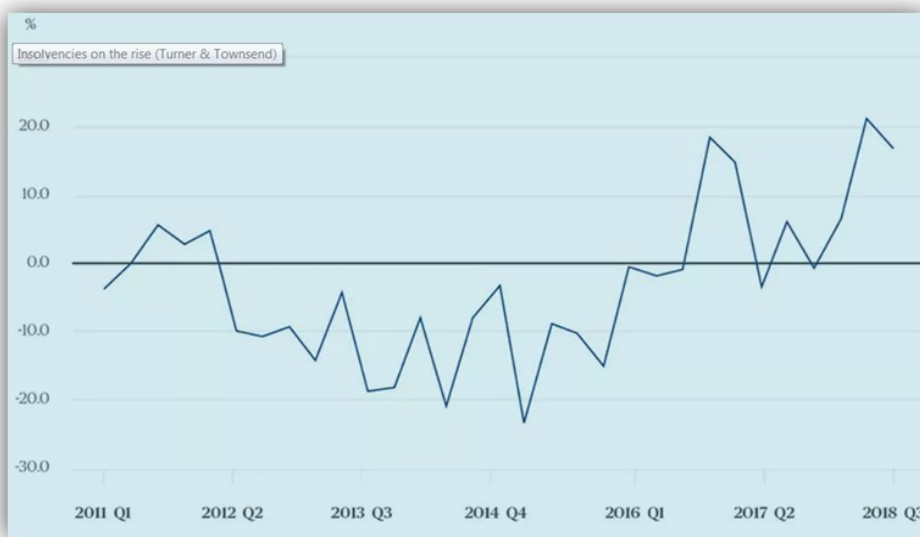
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'Prepare for distress': Turner & Townsend warns of UK construction insolvencies, ***Global Construction Review***

- UK consultant Turner & Townsend is warning that the UK industry should beware insolvencies as demand weakens and margins are squeezed.

Its latest market analysis points to falling demand, rising input costs and lower margins, and notes that the number of construction insolvencies far outstrips those in retail.

With confusion persisting over the Brexit withdrawal agreement, client organisations should prepare for “supply chain distress” and take steps to pre-empt, manage and neutralize this risk, the consultant said. Contractors expect tender prices to increase 2.9% in 2019, outstripped by increasing materials costs of 5.3% and labour costs rising 4.5%. Only 28.4% of contractors expect the market to improve, against 42.1% prior to the Brexit vote in June 2016.



Source: GCR Staff (2019) 'Prepare for distress': Turner & Townsend warns of UK construction insolvencies', *Global Construction Review* [online], 17 January. Available at: www.globalconstructionreview.com/news/prepare-distress-turner-townsend-warns-uk-construc/ [accessed 25 February 2019]

Official data show that construction witnessed the highest insolvency rate of any UK economic sector, with 2,924 insolvencies recorded in the 12 months to the end of September 2018. This figure is 28.85 higher than the UK's struggling retail sector.

The underlying cause is weakening demand in construction, Turner & Townsend says. Despite a small 3.4% rise on the previous quarter, new orders in Q3 2018 were down almost a third (30.8%) on the high levels seen in 2017.

As a result, Turner & Townsend's latest UK market intelligence report finds that half of contractors (50.5%) surveyed were experiencing lukewarm tendering conditions, reporting increased competition and moderate price growth. The trends are hurting profit margins.

The analysis shows median margins for tier one contractors standing at 3% and 5% for tier two contractors. Since the start of 2016, median tier one margins have shrunk by a quarter and tier two margins by half, leading Turner & Townsend to warn of a heightened risk of insolvency.

Paul Connolly, UK managing director of cost management said contractors and clients “need to have their eyes on the pressure points that could push parts of the supply chain to the edge”.

“So much rests on the Brexit withdrawal agreement and there remains risks of further decreases in demand, coupled with increases in the costs of materials and labour from the continent and elsewhere. Contractors’ already-thin margins could clearly come under further pressure.

“It’s essential for clients to be proactive about these risks – monitoring for warning signs, undertaking wide-ranging due diligence during procurement, and using project controls to pre-empt and correct problems at an early stage. It’s about checking and challenging the supply chain, but also collaborating – understand suppliers’ pressures and concerns, as well as holding them to account.”

Turner & Townsend’s report outlines the steps clients should take in terms of watching for warning signs, due diligence, pre-emption, and creating a resilient client-supplier dynamic.

GCR Staff (2019) ‘Prepare for distress’: Turner & Townsend warns of UK construction insolvencies’, *Global Construction Review* [online], 17 January. Available at: www.globalconstructionreview.com/news/prepare-distress-turner-townsend-warns-uk-construc/ [accessed 25 February 2019]

Related Link:

Turner & Townsend (2019) UK market intelligence Q4 2018: Contractors report order book increases but Brexit uncertainty prevails [online]. Available at: www.turnerandtowntsend.com/en/insights/uk-market-intelligence-q4-2018 [accessed 25 February 2019]

- The construction industry is a bellwether for the wider economy, and its strong performance in the third quarter of 2018 set the tone for UK plc as a whole.

Key facts incl.

- Latest UK market analysis points to falling demand, rising input costs and lower margins as construction insolvencies rise
- Contractors expect tender prices to increase 2.9 percent in 2019, outstripped by increasing materials costs of 5.3 percent and labour costs rising 4.5 percent
- Only 28.4 percent of contractors expect the market to improve, against 24.1 percent prior to the Brexit vote in Q1 2016.

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Latest Statistics from the Office for National Statistics (ONS)

Office for National Statistics (ONS), *Release calendar* [online]

Office for National Statistics (ONS), *Release calendar* [online] and available @ www.ons.gov.uk/releasecalendar [accessed 25 February 2019]

The above-mentioned link provides access to the Office for National Statistics (ONS) releases only. For official statistical releases across government [visit the Publication Hub](#) -

GOV.UK, *Statistics: release calendar* [online] and available @ www.gov.uk/government/statistics/announcements [accessed 25 February 2019].

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Office for National Statistics (ONS) - Construction Industry update

- Construction of new buildings and repairs or alterations to existing properties in Great Britain measured by the amount charged for the work, including work by civil engineering companies.

Office for National Statistics (2017), Business, industry and trade, Construction industry [online] and available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 25 February 2019]

From the above-mentioned webpage, you can access

Datasets, Publications/articles and **Methodology**, as well as ‘**All data**’ and ‘**All publications**’

Please note: By visiting the ONS website homepage [online]. Available at: www.ons.gov.uk/ [accessed 25 February 2019]

- From the above-mentioned web-link, you have access to an '**A to Z of statistical bulletins**' where you can select '**C**' and refine to '**Construction**' for the latest items.

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Construction industry highlights include:

[Construction output in Great Britain: December 2018](#)

Contents incl.

(i) Main points; (ii) Things you need to know about this release; (iii) Construction output in December 2018; (v) Detailed growth rates; (v) Revisions; (vi) Looking back on 2018; (vii) Links to related statistics; (viii) Other useful links; (ix) Quality and methodology; and (x) Construction statistics engagement and development

What's in the bulletin?

- The all work series decreased by 0.3% in Quarter 4 (Oct to Dec) 2018, following an increase of 2.1% in Quarter 3 (July to Sept) 2018; this decrease was driven by repair and maintenance output, which was down by 2.8%
- The decrease in repair and maintenance was caused by drops in private housing and non-housing repair and maintenance output of 4.0% and 2.9% respectively
- These falls were offset somewhat by a 1.1% increase in all new work, driven by increases of 1.9% in infrastructure and 1.4% in private commercial new work.

Office for National Statistics (2019), Construction Industry, *Construction output in Great Britain: December 2018* [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 25 February 2019] and

www.ons.gov.uk/businessindustryandtrade/constructionindustry/bulletins/constructionoutputingreatbritain/december2018 [accessed 25 February 2019]

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Datasets related to Construction industry incl.

- **Output in the Construction Industry** – Monthly output at current price and chained volume measures seasonally adjusted by public and private sector. Quarterly non-seasonally adjusted type of work and regional data.
- **Output in the Construction Industry, All Work Summary** – Monthly output all work summary at current price and chained volume measure seasonally adjusted by public and private sector
- **New Orders in the Construction Industry** – Quarterly new orders at current price and chained volume measures seasonally adjusted by public and private sector. Quarterly non-seasonally adjusted type of work and regional data.
- **Construction output price indices** – Monthly construction output price indices (OPIs) from January 2014 to September 2018, and
- **Construction Statistics Annual Tables** – These tables cover a wide range of statistics that are currently available on the construction industry.

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Output in the Construction Industry incl.

Short-term economic indicators commentary: June 2018, and Construction Statistics Development Programme – [Work plan](#)

- A summary of the short-term indicators published in early June 2018.

Office for National Statistics (ONS), 11th April 2018, Article: *Short-term economic indicators commentary: June 2018* [online]. Available at:

www.ons.gov.uk/economy/economicoutputandproductivity/output/articles/shorttermindicatoreconomiccommetary/june2018 [accessed 25 February 2019].

Related Link:

- The [Construction Statistics Development Work Plan](#) (104.4 Kb Pdf) provides users with information on the work that will be completed over the next 12 months, including investigations into both the nominal data and options for measuring construction price statistics.

Office for National Statistics (ONS), 11th December 2015, Release: *Output in the Construction Industry, Construction Statistics Development Programme – Work Plan* [online]. Available at: www.ons.gov.uk/ons/rel/construction/output-in-the-construction-industry/construction-statistics-development-programme---work-plan/index.html [accessed 25 February 2019]. **N.B.** This item has been placed with **The National Archives** as the ONS website has now been updated.

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Construction Statistics, No. 19, 2018 Edition ([Latest release](#))

- A wide range of statistics on the construction industry in Great Britain: statistical trends, international comparisons and leading initiatives that may influence the future.

Table of contents in this edition incl.

(1) Main points, (2) Things you need to know about this release, (3) Construction Output, (4) Construction New orders, (5) Structure of the industry, (6) Employment and earnings, (7) Output price indices (OPIs), (8) Comparisons and contributions to the economy, (9) Housing and planning applications, (10) Building materials, (11) International comparisons, (12) External data sources and previously unpublished tables, (13) Quality and methodology, and (14) Construction statistics engagement and development

Within the section on **Main points** it stipulates

- The value of construction new work in current prices continued to rise in 2017 in Great Britain, reaching its highest level on record at £109,387 million; driven by growth in the private sector, which equates to approximately three-quarters of new work.
- The rise in the value of construction new orders seen since 2011 has continued, in part due to the awarding of several high-value orders relating to High Speed 2 (HS2), which drove the 7.4% increase in new orders in 2017.
- The number of firms operating in the construction industry has continued to rise, increasing by 6.2% compared with the previous year, with 314,590 firms operating in Great Britain in 2017.
- As the number of construction firms has risen, so has the number of insolvencies; the number of new company construction insolvencies grew 3.4% compared with 2016, equating to 2,792 insolvent construction firms.
- Construction-related employment in Great Britain increased by 3.8% in 2017, exceeding its pre-downturn peak of 2007 to reach the highest level on record, with jobs centred around London, the South East and the North West of England
- Average weekly earnings in the construction industry recovered from a fall in 2016, increasing to £607 per week in December 2017, second only to the finance and business services sector.
- The UK trade deficit in construction materials and components continued to widen in 2017, increasing to £9,909 million, with the value of imports more than double the value of exports.

Further information is available at:

Office for National Statistics (ONS), 22 August 2018, *Construction Statistics, No. 19, 2018* [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/number192018edition [accessed 25 February 2019]

Related article/Links:

Office for National Statistics (ONS), 2 October 2017, *Construction Statistics, No. 18, 2017* [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/number182017edition [accessed 25 February 2019]

Office for National Statistics (ONS), Construction Statistics Articles [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases [accessed 25 February 2019]

Note: As of 2016, the Office for National Statistics website was upgraded and by selecting ‘**Construction**’, ‘**Construction Industry**’, ‘**Construction Statistics**’ a wealth of information is available. ONS website @ www.ons.gov.uk [accessed 25 February 2019].

Office for National Statistics (ONS) website [online]. Further information is available at: www.ons.gov.uk/ons/index.html [accessed 25 February 2019]



<https://twitter.com/ONS> [accessed 25 February 2019],



<https://www.facebook.com/ONS> [accessed 25 February 2019],



<https://www.linkedin.com/company/office-for-national-statistics> [accessed 25 February 2019],

ONS, Browse by Theme [online] and available @ <http://www.ons.gov.uk/ons/browse-by-theme/index.html> [accessed 25 February 2019]. Please refer to

‘**Business and Energy**’ 

‘**Production Industries**’  and

‘**Building and Construction**’ 

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Glenigan, provider of UK construction project sales leads, market analysis, forecasting, and company intelligence

Construction Market Analysis

- Grow your business and reduce risk by using in-depth construction market analysis and robust data-driven forecasts. You can examine performance and prospects nationally; by each of the 12 Government economic regions; and 11 market segments. You can explore the market at the right state of your business whether that is during planning; at the tendering and contract phase; or when projects have started on site. This information and more can be accessed, read-online and downloaded via the

Glenigan website [online] and available at: www.glenigan.com/construction-market-analysis/news/2015-construction-kpis [accessed 25 February 2019]

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Health and Safety Executive (HSE) – Construction Statistics

The mission of the Health and Safety Executive (HSE) is to prevent death, injury and ill health in Great Britain’s workplaces. Areas covered within the HSE Website incl.




- Openness

- Standards and performance
- Framework management standards
- Health and safety inspection visits
- Real people vide

The HSE's work covers a varied range of activities; from shaping and reviewing regulations, **producing research and statistics** and enforcing law.

For further information on **HSE's Construction Statistics** visit the following:

Source: Health and Safety Executive (HSE) website and select

'Statistics' 
 'Industries'  and
 'Construction' ,

that will take you to 'Construction Industry'.

HSE [online] and further information available at: www.hse.gov.uk/construction/index.htm [accessed 25 February 2019]

HSE, *About us* [online] and further information is available at: www.hse.gov.uk/aboutus/insidehse.htm [accessed 25 February 2019]

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GOV.UK – Construction Statistics

GOV.UK, Office for National Statistics (2017) National Statistics: ***Impact of improvements to Construction Statistics*** [online]. Available at: www.gov.uk/government/statistics/impact-of-improvements-to-construction-statistics [accessed 25 February 2019]

GOV.UK, Department for Business, Innovation and Skills (BIS), 30th January 2013, Collection: *Construction statistics* [online] and further information incl.

- Monthly Statistics of Building Materials and Components;
- BIS Construction Price and Cost Indices Online;
- Construction Key Performance Indicators;
- Output and New Orders in the Construction Industry; and
- Consultative Committee on Construction Industry Statistics (CCIS)) are available at

GOV.UK, Department for Business, Innovation and Skills (BIS), *Construction Statistics* [online] with further information and web links provided @ www.gov.uk/government/collections/construction-statistics [accessed 25 February 2019]

&
 House of Commons Library, Briefing Papers incl. [The Construction Industry: statistics and policy](#)

- **Key statistics on the construction industry – employment, new orders, output. Also, construction sector policy initiatives.**

In 2014 the construction industry in the UK contributed £103 billion in economic output, 6.5% of the total. 2.1 million jobs or 6.25 of the UK totals were in the construction industry in Q 2015.

The construction industry, particularly house building, faired badly during the recession. Output in the construction sector fell faster than the whole economy in 2008. 2009 saw the sector recover faster than the economy, and 2010 and 2011 saw broadly flat growth, followed by another contraction in 2012 and partial recovery through 2013.

The Coalition Government's strategy paper on the construction industry is *construction 2025*, published in July 2013.

The construction industry was also highlighted in the March 2011 *Plan for Growth*.

Rhodes C (2015), *Construction industry: statistics and policy*, House of Commons Library, Briefing Paper Number 01432, 6 October 2015 [online] and available at:

<http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01432> [accessed 25 February 2019]

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e-Journal Review

RICS **Modus** Digital Magazine – February 2019: [The Public Space Issue](#)

- The way our public spaces are used, managed and planned have a massive influence on the factors that make a city a successful place in which to live and work. So, for this month's edition of Modus, they're switching their focus from the buildings and structures that shape our cities, to the spaces around them.

The rise of privately-owned public spaces, or "Pops" has prompted some commentators to warn of a growing trend towards restrictive and securitised "public" spaces. Others argue that cities have always been a patchwork of changing ownership models, and surely, it's more important to have the space than none at all? So, what exactly constitutes public space in the 21st century, and should we be less concerned about who owns what, and more about how it should be managed.

Also, this issue:

- Talks to experts about the best way to fund and capture the value from our public spaces in the face of dwindling local authority budgets
- Looks at how city planners can harness the boom in personal data generated by our mobile devices to build better public spaces
- And considers the sheer amount of space – and development opportunities – that would be opened up by removing cars from our streets

This digital magazine can be accessed by following the above-mentioned web link.

Modus contains regulations sections on **Intelligence / Experience / Features**

Intelligence

- **Deconstructed** - Unpacking the rise of supermarket-led housing developments
- **Opinion** – Dr Andrew Knight FRICS on closing the industry's diversity gap
- **Chartered territory** - Privately owned public spaces: good or bad? We get your views
- **What we can learn from ...** Paris' plans to become a carbon-neutral city by 2050

This issue's main features include:

- **Does it matter who owns our public space? /**

Privately owned public spaces are now a common sight in our cities, despite the public's wariness over their use. We assess whether their fears are misplaced.

- **Pay to play** - Austerity, densification, privatisation ... the challenges local authorities face in trying to build and maintain public spaces are myriad. It's time to consider other funding options.
- **Our space** - Out of the first industrial revolution came the city as we know it today. We look at how the fourth industrial revolution is helping to reshape those cities for the future.
- **The care and the city** - The growth of Mobility as a Service could spell the end of the road for the private vehicle – and with it the need for all those parking spaces. What would happen next?

Royal Institution of Chartered Surveyors (RICS), Oliver Parsons, Editor of Modus, *Modus*, February 2019 – Modus: The Public Space Issue [online], RICS, Knowledge, Journals. Available at:

www.rics.org/uk/news-insight/publications/modus/the-public-space-issue/ [accessed 25 February 2019]

Please also view:

RICS Modus – The Great Unknown Issue, and refer to the following article

Parson O (2018) 'Here come the trailblazers', *Modus* [online], November / December, pp28-32. Available at:

www.rics.org/uk/news-insight/publications/modus/the-great-unknown-issue/ [accessed 25 February 2019]

N.B. One of our UCEM Apprentices, namely Adelle Rhule-Martin is interviewed about her apprenticeship journey. Article starts on page 28, picture of Adelle on p29 and quotes from her on p30.

RICS Modus – The Anniversary Issue - RICS celebrated its 150th anniversary in June 2018 and took the opportunity both look back at the rich history of our profession, and to look forward to the future of the built environment, with a special edition of *Modus* Magazine.

- **10 years that changed surveying** - In the 150 years since RICS was founded the world has changed at an inexorable pace. What are the key events that have shaped the Institution's history, and that of the role of the surveyor?

Please note: College of Estate Management is mentioned within their history- please refer to page 17 onwards

Royal Institution of Chartered Surveyors (RICS), Oliver Parsons, Editor of Modus, *Modus*, June 2018 – Modus: **The Anniversary Issue** [online], RICS, Knowledge, Journals. Available at:

www.rics.org/uk/news-insight/publications/modus/the-anniversary-issue/ [accessed 25 February 2019]

Please note: In addition to *MODUS*, RICS publishes other journals that are **free** to view online incl.

- *Construction Journal*,
- *Building Surveying Journal*,
- *Building Conservation Journal*,
- *Building Control Journal*,
- *Land Journal*, and
- *Property Journal*.

Source: Royal Institution of Chartered Surveyors (RICS). Further information can be accessed via the RICS Website, News, Journals [online] and available at: www.rics.org/uk/news-insight/publications/ [accessed 25 February 2019]

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Latest issue of *Contractors World International* (Vol. 9, No 1) incl.

Contents incl.

- **United Kingdom: World famous landmark undergoes renovation**
- Finland: Dust suppression at challenging demolition site
- USA: Modified articulated trucks and scrapers
- Norway: Major milestone for large suspension bridge
- USA: No 1 choice at bridge elevation
- United Kingdom: Innovations from leading contractor
- United Kingdom: \$2bn city upgrade makes progress
- Australia: Virtual Reality Training
- Germany: Building Façades That Think
- Nigeria: Residential complex on the shoreline
- India: High-rise concrete pumping challenge

&

Potholes – Fighting a losing battle

- New spray injection patching service
- Bituchem repair innovations
- Speed and efficiency see velocity win
- Permanent cold asphalt pothole repair
- Recycled plastic for road repairs

UK: World famous landmark undergoes extensive renovation

The iconic Elizabeth Tower which houses the famous clock and Big Ben – the bell that chimes the times is undergoing extensive refurbishment.

Part of the Palace of Westminster (Houses of Parliament), it is the first stage of a multi-billion-dollar total refurbishment which will require members of Parliament vacating the building for several years.

Unfortunately for tourists, the most photographed landmark in the world is hidden from view behind a curtain of scaffolding to the full height. Only one face of the clock has been left visible and, for the safety of workers, the bell has been silenced during the renovation period.

As the Tower is 96 metres tall, scaffolding is needed to enable workers to reach high levels safely. Scaffolding will be dismantled as the work is completed from the top, and at least one clock face will always be on show.

As a Grade 1 listed building within a UNESCO World Heritage site, the 160-year-old Tower is subject to listed building consent. This programme of works has been carefully planned in consultation with Historic England.

The works involve:

- Repair problems identified with the Elizabeth Tower and the Great Clock, which cannot be rectified whilst the clock is in action.
- Conserve significant elements of the Tower, as designed by architects Charles Barry and Augustus Wellby Pugin.
- Repair and redecorate the interior, renew the building services and carry out work to improve health and safety and fire prevention.
- Increase energy efficiency to reduce the Tower's environmental impact.

For further information, visit

Contractors World International (2019), 'UK: World famous landmark undergoes extensive renovation', *Contractors World International* Volume 9, No 1, Page 30 [online], USL StructureCare. Further information available at: <http://cwmags.com/> [accessed 25 February 2019]

Contractors World magazines (incl. **Contractors World International** and **Contractors World UK & Ireland** are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries [online]. Available at: <http://cwmags.com/> [accessed 25 February 2019]. **Please note** that *Contractors World UK & Ireland* is no longer being published. However, the content continues to be published in the international edition (as shown above).

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IWFM Digital Magazine – **FM World** February 2019: the latest issue

fm-world.co.uk is the online magazine of the **Institute of Workplace and Facilities Management (IWFM)**, formerly the British Institute of Facilities Management (BIFM) and is available to access and view online.

In this latest issue,

Facilitate Industry News:

- Big firms set to lose out as levy deadline looms, warns apprenticeship provider
- Think Tank: is your internal communication system failing workers?

- Nottingham Trent University debuts sustainability behaviour change programme
- The best things to beat the office blues
- UKGBC consults on net zero carbon buildings definition

Business News:

- Spectrum wins cleaning deal with Pyramids Business Park
- Nottingham Building Society resigns with Incentive FM
- Churchill Group extends contract with Caldicot School
- Interserve thrashes out a rescue deal with its creditors
- KeyPlus wins £1m security deal with Lancashire County Council

News analysis:

- IWFM survey: Sustainability ranks 'very high' in procurement
- 'Only one in five firms' is taking action on gender pay gap
- Employment laws set for 'biggest upgrade in a generation'
- Hackitt recommendations to be taken forward
- Gove publishes precursor measures to 'green Brexit' bill

Business analysis:

- Better customer experience
- The IWFM professional standards
- Washrooms for women
- Guardian culture
- First-choice FM

Source: Institute of Workplace and Facilities Management (IWFM), formerly BIFM (2019), *FM World*, News, 4th and 8th February 2019, 9th January 2019, fm-world.co.uk [online]. Further information available at: www.fm-world.co.uk/ [accessed 25 February 2019] and www.fm-world.co.uk/news/ [accessed 25 February 2019], London: Redactive Publishing Ltd.

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The Heritage Alliance's latest **'Heritage Update' [E-Bulletin](#) – 31 January 2019**

Heritage Update is the Heritage Alliance's voice to, and for, the sector. The popular fortnightly e-bulletin offers policy updates, news, a consultation round-up, events / course listings and job vacancies.

The latest issue (31 January 2019) that can be accessed and downloaded (for personal use as reference) from the above-mentioned web link and contains further information on the following:

***Heritage Update* E-Bulletin**

Headlines:

- Apply for a Heritage Alliance grant by 15 February 2019!
- Heritage bespoke legal advice and training day with BWB LLP
- Heritage Alliance write to Michael Gove
- The Honor Frost Foundation Steering Committee on Underwater Cultural Heritage joins the Alliance
- Help us to improve our Website!
- **Heritage Alliance signs open letter against permitted development rights (1)**
- **Connecting communities with place through infrastructure projects (2)**
- Heritage and the creative industries case studies
- Sponsor our heritage and the creative industries report

News round-up:

- **New name and strategy for the HLF (3)**
- **Data Protection and Brexit – is your organisation prepared? (see further information above and in Information Governance Section)**
- Coastal heritage assets to be saved with almost £1 million of Coastal Revival Fund
- **Five areas to share £20 million to invest in culture (4)**
- **More funding to help town centres and high streets thrive (see further information above)**
- DCMS Secretary of State, Jeremy Wright's, Value of Culture speech announces summit on the measurement of cultural value
- Immigration and no deal
- Michael Ellis' speech at Theatres Trust: Theatres at Risk launch
- Hastings pier campaigners looking to prevent future sell-offs
- Transforming leadership fund
- **Co-op Community Wellbeing Index (see further information above)**
- Delegation to Italy – open call
- Natural Capital Committee's sixth annual report
- **Housing monitoring and evaluation strategy (5)**
- No deal Brexit advice: changes for timber importers and exporters
- Community Life Survey: Focus on Loneliness
- Under-30s museums and galleries to de-stress
- The painted hall, Greenwich to reopen in March
- New AIM Guide for Boards: Planning To Recruit A Manager
- The trends NCVO think will impact charities
- Unique tear shaped tray from 17th century Southern India at risk of export
- NCVO Charity Ethical Principles
- **Baroness Thornhill: extending permitted development rights will create even more poor-quality homes and undermine local economies (6)**
- Kids in Museums even burden
- Impactasaurus offers charities a free way of measuring social impact
- Report reveals extent of digital skills gap within charities
- Free digital workshops for charities launched
- 14th World's Original Marmalade Awards

Have your say - Open consultations

and more.

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

Lucy Top Searching Tip - This online edition also has a search function that allows you to view articles from current and archived editions.



https://twitter.com/Heritage_NGOs [accessed 25 February 2019]



<https://www.linkedin.com/grp/home?gid=4898001> [accessed 25 February 2019]

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Heritage Alliance signs open letter against permitted development

Following The Heritage Alliance's objections to the Government's plans to introduce new permitted rights, they have **signed an open letter** from the Local Government Association which asks the Secretary of State for the Ministry of Housing, Communities and Local Government not to pursue proposals to allow for demolition of existing buildings and ... upwards extensions to existing buildings for new homes. Other organisations are still able to add their names.

Related Link:

LGA.UK (2019) 'An open letter on Permitted Development Rights', Local Government Association [online]. Available at: www.local.gov.uk/open-letter-permitted-development-rights

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

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Connecting communities with place through infrastructure projects

January's #HeritageChat was led by CiFA's Voluntary and Community Archaeology Group. It explored how infrastructure projects (e.g. HS2, A14, Tideway) can be used to connect communities with place.

Twitter-ers discussed when (at what stage in a project) there's greatest potential for engaging communities, with most agreeing that it's important that local people are involved from the very beginning. The chat then explored how communities can take a leading role in interpretation and be involved in post-excavation research. Discussions also focused upon the problems that 'client confidentiality' poses to community engagement and how we can ensure that infrastructure projects are sensitive to the needs of local communities. It was a great chat and you can catch up on the **summary** provided via the link below.

The topic came from the Heritage 2020 Discovery, Identification and Understanding working group (**find out more via the link below**). We're always looking for topics that the sector would like to discuss via the medium of Twitter.

Related Links:

Heritage 2020 (2019) 'How can infrastructure projects be used to connect communities with place? #HeritageChat' [online]. Available at: www.heritage2020.net/how-can-infrastructure-projects-be-used-to-connect-communities-with-place-heritagechat/ [accessed 25 February 2019]

Heritage 2020 (2019) 'How research can inform our understanding, protection and enjoyment of the historic environment' [online]. Available at: www.heritage2020.net/working-groups-discovery-identification-understanding/ [accessed 22 February 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

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New name and strategy for the HLF

The Heritage Lottery Fund will now be known as the **The National Lottery Heritage Fund**. This is intended to make a clearer link between playing the National Lottery and the good cause that benefit. The Big Lottery Fund, the UK's largest community funder, changes its name to The National Lottery Community Fund.

The Alliance was delighted to attend the launch of the **Heritage Fund's new five-year strategy**.

It has now opened its simplified portfolio

- National Lottery Grants for Heritage – an open programme for any type of heritage project from £3,000 - £5million
- Heritage funding campaigns designed to fulfil strategic needs or funding gaps. The first two campaigns will launch in 2019, focusing on helping: organisations build their capacity and organisational resilience or to build digital capabilities
- Joint funds to deliver strategic initiatives in partnership with other organisations, such as the Future Parks Accelerator partnership with the National Trust
- Social investments such as impact funds and loans
- Two rounds of major grants of over £5m in 2020-21 and 2022-23.

Related Links:

The National Lottery Community Fund (2019) 'National Lottery Fund and Heritage Lottery Fund to embed The National Lottery in identity' [Community Fund > News > Press Releases > National Lottery good causes funders unveil new brand] The National Lottery Community Fund [online]. Available at: www.tnlcommunityfund.org.uk/news/press-releases/2019-01-29/national-lottery-good-cause-funders-unveil-new-brand [accessed 25 February 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

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Five areas to share £20 million to invest in culture

Grimsby, Thames Estuary, Plymouth, Wakefield and Worcester will receive millions of pounds of **funding to invest in culture**. In the first government investment of its kind, Grimsby, the Thames Estuary, Plymouth, Wakefield and Worcester will use the funding on local cultural plans which are tailored to the strengths and needs of each area.

It is expected that the funding will create over 1,300 new jobs, benefit 2,000 people through skills training, and support more than 700 businesses. Through match-funding, an additional £17.5 million will be invested across the five locations.

The Cultural Development Fund (CDF) has been launched by the Government to use investment in heritage, culture and creativity as a catalyst for regeneration. Each area has designed plans to strengthen the local arts sector, increase cultural access and provide greater opportunity for people to forge creative careers.

Related Link:

GOV.UK, Department for Digital, Culture, Media and Sport, and The Rt Hon Jeremy Wright (2019) Press Release: 'Five areas to share £20 million to unleash creativity across the nation' GOV.UK [online]. Available at: www.gov.uk/government/news/five-areas-to-share-20-million-to-unleash-creativity-across-the-nation [accessed 25 February 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

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Housing monitoring and evaluation strategy

The **housing monitoring and evaluation strategy** sets out the framework used by MHCLG for monitoring and evaluation activities related to housing policy interventions. This doesn't attempt to address the heritage impacts of housing policy.

Related Link:

GOV.UK, Ministry of Housing, Communities and Local Government (2019) Policy paper: 'Housing monitoring and evaluation strategy' [GOV.UK > Home > Housing, local and community> Housing] GOV.UK [online]. Available at: www.gov.uk/government/publications/housing-monitoring-and-evaluation-strategy?utm_source=33ac1d55-9c06-4bef-806d-85758fcb229f&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 22 February 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

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Baroness Thornhill: extending permitted development rights will create even more poor quality homes and undermine local economies

Baroness Thornhill **writes in Politics Home**: 'My concerns are based on the proven negative impacts of the government's current policy, in place since 2013, which allows offices to be converted to housing units (I hesitate to call them homes). This has led to the creation of poor-quality homes, as well the loss of important employment space, whilst driving a coach and horses through local plans and leaving the public mystified as to who can do what where and when. Our council's ability to scrutinise outcomes of these conversions was at best limited, at worst non-existent'.

Related Link:

PoliticsHome (2019) 'Baroness Thornhill: We must base planning decision on the individual circumstances of each site, not through a one-size-fits all central diktat' PoliticsHome [online]. Available at: www.politicshome.com/news/uk/economy/construction-industry/opinion/house-lords/101136/baroness-thornhill-we-must-base [accessed 25 February 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019].

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Latest Edition of **Open Praxis** –

Open Praxis (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.

Open Praxis [online]. Available at: <https://openpraxis.org/index.php/OpenPraxis/index> [accessed 25 February 2019] and

Open Praxis Archives [online]. Further information available at <https://openpraxis.org/index.php/OpenPraxis/issue/archive> [accessed 25 February 2019]



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Open Praxis, Volume 10, No. 4, October - December (2018)

Papers (available in full-text versions) include the following:

Editorial -

Title: Introduction to Open Praxis Volume 10, Issue 4

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: This last *Open Praxis* issue in 2018 is an open issue that includes seven research papers and one innovative practice paper.

Keywords: open education; OER; MOOC; feedback; open learning; online curriculum

Reference: Gil-Jaurena I (2018) 'Introduction to Open Praxis volume 10 issue 4', *Open Praxis*, 10(4): pp307-308.

doi: <http://dx.doi.org/10.5944/openpraxis.10.4.946> [accessed 25 February 2019]

Research articles -

Title: Personalising Feedback Using Voice Comments

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: "Whilst text-based feedback is normally used by college instructors to help students improve their written assignments, it is important to consider using voice comment tools for future personalisation. New and easily-accessible technologies provide this option. Our study focused on surveying undergraduates who received voice comments on their written assignments. Students were queried on their preferences for feedback delivery and survey questions probed student response both quantitatively and qualitatively. Two voice comment tools were used: Adobe Acrobat Reader and Kaizena voice comments. Results showed the majority (66.7%) of students surveyed preferred the addition of voice comment feedback over written comments alone. Appendices supply tool information, full data sets and extensive student commentary regarding their experience after receiving voice comments.

Keywords: Technology; feedback; voice comments; Kaizena; Adobe Acrobat Reader.

Reference: Keane K, McCrea D, and Russell M (2018) 'Personalizing Feedback Using Voice Comments', *Open Praxis*, 10(4), pp309-324.

doi: <http://dx.doi.org/10.5944/openpraxis.10.4.909> [accessed 25 February 2019]

Title: The design of an empirical cross-boundary collaborative open learning framework

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: This paper reports on the design and development of an empirical cross-boundary, collaborative open learning framework for cross-institutional academic development. The framework is one of the key outputs of a phenomenographic study into the lived experience of open learners in two open cross-institutional courses. Data was collected through individual interviews from 11 study participants from two courses that made up a collective case study. These courses were offered by UK higher education institutions in collaboration with informal partners nationally and internationally and were selected as these had different collaborative learning features built-in that could be explored. Course participants in these two courses include academic staff who teach or support learning and further open learners. The empirical design framework is proposed to support the development and implementation of cross-boundary collaborative open learning approaches within cross-institutional academic development and may also be useful in further learning and teaching settings in higher education.

Keywords: open education; academic development; collaborative open learning; boundary crossing; design framework; phenomenography

Reference: Nerantzi C (2018) 'The design of an empirical cross-boundary collaborative open learning framework', *Open Praxis*, 10(4), pp325-341.

doi: <http://dx.doi.org/10.5944/openpraxis.10.4.907> [accessed 25 February 2019]

Title: Findings from a Case Study on Refugees Using MOOCs to (Re)enter Higher Education

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: This paper presents a case study evaluating the online learning experience of ten refugees on MOOCs. Qualitative data were collected from the learners, generating a set of 43 statements depicting the learners' experience of learning, which were analysed using an augmented Community of Inquiry (CoI) theoretical framework. The key findings show that learners particularly desired teaching presence in terms of facilitation and feedback on their progress; they viewed online social presence as being important but generally not well managed in MOOCs; and they expressed cognitive presence mainly in terms of the selection and use of information sources. Learning presence (the additional element of the "augmented" CoI framework) was described primarily in terms of the importance of goal-setting and planning. The implications for organisations supporting refugees and other learners in disadvantaged circumstances on MOOCs are discussed.

Keywords: MOOCs; refugees; Community of Inquiry; developmental evaluation; Kiron

Reference: Witthaus G (2018) 'Findings from a Case Study on Refugees Using MOOCs to (Re)enter Higher Education', *Open Praxis*, 10(4), pp343-357.

doi: <http://dx.doi.org/10.5944/openpraxis.10.4.910> [accessed 25 February 2019]

Title: Scoping the nascent: An analysis of K-12 OER research 2012-2017

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: Awareness and use of Open Educational Resources (OER) has grown at all levels of education. Higher education researchers actively study OER but K-12 OER research indicates limited published results. To address this gap, this study examined articles meeting defined criteria and analysed the results. Findings include cohesion of author-supplied keywords and ten primary categories of focus. From 38 articles studies, a variety of research methods were represented. Analysis showed Professional and Applied Sciences were overwhelmingly represented with the majority of articles within the discipline of Education and its fields with Humanities a distant second category of publication. The equal distribution between open and closed access journals may reflect changes to past scholarly publication practices. Citation analysis revealed divergences and reinforces the

nascent quality of this topic. Future K-12 OER research that studies the complex change from resource scarcity to resource flexibility and digital abundance is needed.

Keywords: K-12; OER; open educational practice; open pedagogy; literature analysis

Reference: Blomgren C, and McPherson I (2018) 'Scoping the nascent: An analysis of K-12 OER research 2012-2017', *Open Praxis*, 10(4), pp359-375.

doi: <http://dx.doi.org/10.5944/openpraxis.10.4.905> [accessed 25 February 2019]

Title: 'Dark reuse': an empirical study of teachers' OER engagement

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: There is scant evidence of OER reuse or sharing; OER apologists maintain that reuse is happening in private spaces, but others argue there is no evidence of such 'dark reuse'.

The OER lifecycle provides a model of OER engagement, defining five key practices: finding, composing, adapting, reusing and sharing. However, no empirical research has yet investigated whether teachers' engagement with OER follows this model; evidence from OER repository analytics suggests not.

This paper draws on an empirical study of engagement with an OER repository by language teachers at a distance university (The Open University UK). Through the applied thematic analysis of data generated through observation of lesson preparations, the paper's contribution is to validate the OER lifecycle model and provide evidence of 'dark reuse'. Qualitative tools, sensitive to the situated nature of OER engagement, are crucial to understanding invisible practices around 'dark reuse', and sophisticated models that embrace the complexity of OER ecosystems are needed.

Keywords: OER; dark reuse; OER lifecycle; sharing; OER ecosystem; language teaching; higher education

Reference: Beaven T (2018) 'Dark reuse': an empirical study of teachers' OER engagement', *Open Praxis*, 10(4), pp377-391.

doi: <http://dx.doi.org/10.5944/openpraxis.10.4.889> [accessed 25 February 2019]

Title: Open Textbooks in an Introductory Sociology Course in Canada: Student Views and Completion Rates

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: Open educational resources (OER), including open textbooks, are free, adaptable learning resources. The integration of these materials in place of commercial textbooks allows for considerable financial savings for students and creates opportunities for more active and engaged learning. The growing interest in the use of OER at a Western Canadian university led to the chance to survey students for their feedback on using OER instead of traditional commercial textbooks. This paper focuses on the views of students in an introductory sociology course for which an instructor adopted an open textbook and otherwise left the course unchanged from when it was taught with a traditional textbook. In addition, completion rates for the offerings with the open textbook are compared to previous offerings with a commercial textbook.

Keywords: Open education resources; OER textbooks; open textbooks.

Reference: Ross H, Hendricks C, and Mowat V (2018) 'Open Textbooks in an Introductory Sociology Course in Canada: Student Views and Completion Rates', *Open Praxis*, 10(4), pp393-403.

doi: <http://dx.doi.org/10.5944/openpraxis.10.4.892> [accessed 25 February 2019]

Title: Differentiation in Access to, and the Use and Sharing of (Open) Educational Resources among Students and Lecturers at Technical and Comprehensive Ghanaian Universities

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: This paper is the second in a series of three with a common goal to present a fair OER picture for Sub-Saharan Africa, represented by large-scale studies in three countries: Kenya, Ghana, and South Africa. This paper

examines a deliberate selection of four Ghanaian universities with randomly sampled students and lecturers. Distinct questionnaires for students and the lecturers have been used, which generated a response from in total 818 students and 38 lecturers. The major outcomes based on the empirical data are: (i) there is a significant digital differentiation among lecturers and students at technical versus comprehensive universities in terms of their proficiency and internet accessibility; and (ii) the awareness and appreciation of the OER concept and open licensing is low but from the actual variety and types of processing by respondents of educational resources (not necessarily open) there is a preparedness for openness for the future.

Keywords: Educational Resources; Open Education Resources (OER); ICT; differentiation; access; use; sharing; universities in Ghana; students; lecturers; open education

Reference: Pete J, Mulder F, Oliveira Neto J, and Omollo K (2018) 'Differentiation in Access to, and the Use and Sharing of (Open) Educational Resources among Students and Lecturers at Technical and Comprehensive Ghanaian Universities', *Open Praxis*, 10(4), pp405-421. doi: <http://dx.doi.org/10.5944/openpraxis.10.4.917> [accessed 25 February 2019]

Innovative practice articles -

Title: **Designing Online Curriculum: Program Revisions and Knowledge Exchange**

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: In this article, I focus on the importance of knowledge exchange and knowledge communities to create an online curriculum that moves from individual course design to shared curriculum design. I draw from current discussions on communities of practice, agoras, and knowledge societies, expanding on the notion that knowledge, in order to benefit society, has to be shared. I show the results of a program redesign at Northern Arizona University achieved through collaboration on online course learning outcomes as well as course design, and I conclude by arguing for continued assessment of current practices to encourage educators to think critically about their contributions to an open knowledge society.

Keywords: curriculum redesign; online graduate program; knowledge communities; open knowledge exchange; faculty collaboration; student learning

Reference: Gruber S (2018) 'Designing Online Curriculum: Program Revisions and Knowledge Exchange', *Open Praxis*, 10(4), pp423-431.

doi: <http://dx.doi.org/10.5944/openpraxis.10.4.869> [accessed 25 February 2019]

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EURODL (European Journal of Open, Distance and E-Learning) –

EURODL (European Journal of Open, Distance and E-Learning) is an electronic, multi-media, [open access journal](#). It publishes the accounts of research and presents scholarly work and solid information about open, distance, online and e-learning in technology-enhanced education and training in its most inclusive definition.

Incl. Liyanagunawardena T, Scalzavara S, **University College of Estate Management (UCEM)** and Williams S, University of Reading (2017) 'Open Badges: A systematic Review of Peer Reviewed Publishers Literature (2011-2015)', *EURODL*

Open badges are a digital representation of skills or accomplishments recorded in a visual symbol that is embedded with verifiable data and evidence. They are created following a defined open standard, so that they can be shared online. Open Badges have gained popularity around the world in recent years and have become a standard feature of many learning management systems. This paper presents a systematic literature review of the published open badges literature from 2011 to 2015. Through database searches, searching the internet and chaining from known sources, 135 relevant peer-reviewed papers were identified from a corpus of 247

publications for this review. The authors believe this to be the first effort to systematically review literature relating to open badges. The review categorised publications while also providing quantitative analysis of publications according to publication and contributors. After assessing the literature suggestions for future research directions are presented, based on under-represented areas.

Liyanagunawardena T, Scalzavara S, University College of Estate Management (UCEM) and Williams S, University of Reading (2017) 'Open Badges: A systematic Review of Peer Reviewed Publishers Literature (2011-2015)', De Gruyter Open, *European Journal of Open, Distance and E-Learning - EURODL* [online], 8 September. Available at: www.eurodl.org/?p=current&sp=full&article=754 [accessed 25 February 2019]

EURODL (European Journal of Open, Distance and E-Learning) – Overview [online]. Available at: www.eurodl.org/ and <https://content.sciendo.com/view/journals/eurodl/eurodl-overview.xml> [accessed 25 February 2019]

Most downloaded articles (as of 25 February 2019) incl.

1. Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources by Farrow R [et al.]
2. Predicting Dropout Student: An Application of Data Mining Methods in an Online Education Program by Yukselturk E [et al.]
3. Exploring the Factors Associated with MOOC Engagement, Retention and the Wider Benefits for Learners by Petronzi D, and Hadi M
4. Learners on the Periphery: Lurkers as Invisible Learners by Honeychurch S, Bozkurt A [et al.]
5. Differences Between Regular and Distance Education in a Teacher's Training Program by Zacharias G and Yiannis G
6. Aesthetic Literacy: Observable Phenomena And Pedagogical Applications for Mobile Lifelong Learning (MLLL) by Gallagher M S and Ihanainen P
7. Cross-Cultural Communication and Collaboration: Case of an International e-Learning Project by Toprak E and Genc-Kumtepe E
8. MOOCs As A Method Of Distance Education In The Arab World – A Review Paper by Adham R S and Lundqvist K O
9. Distance Education for People With Visual Impairments by Liakou M and Manousou E
10. Research Trends in Turkish Distance Education: A Content Analysis of Dissertations, 1986-2014 by Bozkurt, A [et al.]

Access to these articles are available within the above-mentioned web-link.

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OLC Online Learning Journal – Latest issue published

LATEST NEWS: The MERLOT Journal of Online Learning and Teaching (JOLT) was a peer-reviewed, open-access, online publication that promoted scholarship in the use of the Internet and web-based multimedia resource in higher education.

The MERLOT community is now joining with the Online Learning Consortium (OLC – formerly Sloan-C) to expand scholarly research in the field of online education, with a merger of the *Journal Online Learning* (formerly JALN) and the *Journal of Online Learning and Teaching* (JOLT). Further information is available at Online Learning Consortium [online] and available at: <https://olj.onlinelearningconsortium.org/index.php/olj> [accessed 25 February 2019]

Papers in this latest issue of *Online Learning Journal* incl.

This issue of OIJ presents 13 articles researching Massive Open Online Courses (MOOCs), leadership perspective, student engagement, academic integrity, pedagogy, and support. These papers advance our understanding of online learning with insights from a broad array of national and international investigators using quantitative, qualitative, and mixed methods approaches to inquiry.

The Online Learning Consortium's premier journal dedicated to the development and dissemination of new knowledge at the intersection of pedagogy, emerging technology, policy, and practice in online environments.

Table of Contents

Special Conference Issue: AERA Online Teaching and Learning SIG

- Farmer T, Richardson J, and Swan K (2018) '**Introduction to Special Issue [S.I.]: AERA 2018 OTL SIG**', *Online Learning Journal* [online], 22(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1584> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1584> [accessed 25 February 2019]

- Introduction to the Special Issue: The American Educational Research Association (AERA) 2018 Online Teaching and Learning (OTL) Special Interest Group (SIG).

Peterspm A T, Beymer P N, and Putcnam R T (2018) '**Synchronous and Asynchronous Discussions: Effects on Cooperation, Belonging and Affect**', *Online Learning Journal* [online], [S.I.], 22(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1517> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1517> [accessed 25 February 2019].

- Supporting productive peer-to-peer interaction is a central challenge in online courses. Although cooperative learning research provides robust evidence for the positive outcomes of face-to-face cooperative learning (Johnson & Johnson, 1989), online modes of cooperative learning have provided mixed results. This study examines the effects of synchronous versus asynchronous interaction on students' sense of cooperation, belonging, and affect in online small-group discussions. Fifty-two undergraduate students were assigned to synchronous and asynchronous interaction conditions. The findings support prior research that asynchronous communication interferes with the relationship between cooperative goals and the outcomes of cooperation. Results inform theory and practice, by showing that asynchronous cooperative learning may not work as designed because the presence of cooperative goals do not predict cooperative outcomes.

Keywords: Online learning, synchrony, asynchronous, cooperative learning, belonging, affect, cognitive processes.

- Warren A N (2018) '**Navigating assigned roles for asynchronous online discussions: Examining participants' orientation using conversation analysis**', *Online Learning Journal*, [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1511> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1511> [accessed 25 February 2019].

- Students in a fully-online learning environment have limited access to opportunities to talk about math problem solving. While discourse is a promising pedagogical model, less is known about how it translates to online math learning. We analysed online platform data from two fully-online virtual elementary schools in the United States to address the following research questions: (a) is participating in math discourse about reasoning and problem-solving related to students' confidence, self-efficacy toward math, and math mindset in an online learning environment? (b) Is participation in math discourse related to math performance? The results showed that (a) repeated participation in the discourse sessions in a course was not directly related with changes in confidence, self-efficacy toward math, and math mindset, and (b) higher numbers of sessions that students participated in was associated with higher performance in final math course score and state assessment results, after controlling for prior performance and confidence, self-efficacy and mindset scores.

Keywords: math discourse; mathematics instructions; online learning.

- Wilton L (2018) '**Quiet Participation: Investigating non-posting activities in online learning**', *Online Learning Journal*, [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1518> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1518> [accessed 25 February 2019].

- Despite the growth in online learning offerings in K-12 and higher education, limited research has been undertaken to better understand less visible online learning activities. Reading and rereading are not typically values as important indicators of learning since number or frequency of entries, words or key phrases are usually visible and easily tracked. This paper addresses reading, writing and revisiting behaviours by cluster groups in eight online courses, and looks for patterns related to rereading. Participant perceptions of the value of

rereading entries in online learning are discussed. The findings highlight the importance of a more nuanced understanding of the different roles reading and rereading play in online learning discussions. This research informs our understanding of the different roles reading and rereading play in online learning discussions. This research informs our understanding of the importance of non-posting behaviours to student learning. Instructionally, these results may encourage valuing of different “paths” to online learning success beyond the criterion of written entries.

Keywords: online learning discussions, rereading, revisiting, non-posting participation.

- Bonafini F (2018) ‘**Characterising Super-Posters in a MOOC for Teachers’ Professional Development**’. *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1503>. [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1503> [accessed 25 February 2019].

- Massive Open Online Courses (MOOCs) attract thousands of participants who each exercise autonomy by engaging with resources and with other participants to whatever degree they wish. When analysing participants’ patterns of engagement in MOOCs it is possible to notice that certain participants exhibit high levels of participation, actively engaging with others in forums. This study focuses on characterising these highlight active participants and understanding their contributions back to the network in a MOOC designed for teachers’ professional development. Connectivism is used as theoretical lens to describe super-posters’ engagement in forums. Data from participants’ demographics, click-data, and forum posts are used to identify these highly active users. Qualitative content analysis is used to categorise the content of their posts, and social network analysis I used to represent their patterns of engagement. Results show that super-posters are generators of engagement, repurposing the content learned from the MOOC and feeding-forward new resources to the network. Super-posters’ engagement in forums. Data from participants’, demographics click-data, and forum posts are used to identify these highly active users. Qualitative content analysis is used to represent their patterns of engagement. Results show that super-posters are generators of engagement, repurposing the content learned from the MOOC and feeding-forward new resources to the network. Super-posters can be seen as representatives of participation inequality in forums. They position themselves as the most prestigious and most influential nodes in the networks created by participants as they engage in forums. In some networks super-posters can be seen as representative of participation inequality in forums. They position themselves as the most prestigious and most influential nodes in the networks created by participants as they engage in forums. In some networks super-posters serviced as bridges, connecting people from different discussion threads and helping information to flow through the network. This study provides to MOOC designers and MOOC instructors an affordable method to identify and classify super-posters in any MOOC. Findings of this study could be used by MOOC designers and MOOC instructors to develop pedagogical interventions to give these participants a special role in the next MOOC cohort, which may foster engagement in MOOC forums and nurture the cyclical process of learning described in Connectivism. Regarding implications for research, this study attends the need for qualitative methods when analysing participants’ engagement in MOOC forums and contributes to our knowledge of participation in inequality. It also extends the literature of super-posters by showing their characterization in a MOOC focused on teachers’ professional development.

Keywords: MOOCs for Teachers; Participation Inequality in Forums, Super-posters, High Active Participants in MOOCs; Most Active Users; MOOC Forums; Qualitative Research.

- Swan K, Bloemer W [et al.] (2018) ‘**Digging deeper into the data: The role of gateway courses in online student retention**’. *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1515> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1515> [accessed 25 February 2019].

- Improvement in undergraduate retention and progression is a priority at many US postsecondary institutions and there seems to be a growing movement to address it by identifying gateway courses (foundational course in which many students fail or withdraw) and concentrating on “fixing” them. This paper argues they may not be the best use of limited resources. No matter what we do, there will always be courses with high DFW rates simply because of the nature of their content and the preparation of the students who must take them. Our research suggests that student type and academic staff affect student success and that gateway courses (courses which block student progression) can be found at all undergraduate levels. Specifically, we have found that one can use student type, academic staff, cumulative GPA, and prior withdrawals to predict success in undergraduate

courses. Moreover, relating predictions to observed DFW rates can highlight courses exceeding expectations, and those which fall below them, to support a more nuanced understanding of where and what attention is needed. We illustrate the utility of such approach by examining issues surrounding success in online courses at our institution.

Keywords: predictive analytics; gateway courses; student success.

- Hobson T D, Puruhito K K (2018) '**Going the Distance – Online Course Performance and Motivation of Distance-Learning Students**'. *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1516> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1516>. [accessed 25 February 2019].

- This study was designed to better understand what drives the learning and performance of students enrolled in distance-learning courses. Between 1999 and 2008, the number of students enrolled in at least one online course increased from 10% to 24% (NCES, 2014). In 2015, the number of students enrolled in at least one distance-learning course approached 6 million, with close to half of those students enrolled in programs that are exclusively online (NCES, 2018; Allen & Seaman, 2017). This enrolment growth, however, is coupled with an alarmingly high attrition rate – a rate as high as 50% greater than campus-offered programs (Willing & Johnson, 2009). As GPA and course performance have been linked to distance-learning persistence and retention, we found it imperative to explore differences in motivational or orientations as they relate to passing and failing status for an individual course. To do so, we surveyed distance learning students and identified correlations between motivational constructs such as instrumentality, self-efficacy, connectedness, use of knowledge building strategies, and final course performance. Differences related to gender and major/non-major status are also reviewed and discussed. These findings offer insights into next steps for research, but also inform teaching practice.

The above & further articles are available via the source link provided below.

Section II incl.

- Shea P (2018) '**Introduction to Section II**'. *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1591> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1591> [accessed 25 February 2019].
- McKenna B M, Finamore D [et al.] (2018) '**The Effect of a Multifactor Orientation on Student Performance: Organisational Skills, Goal setting, Orientation to Classroom, and Academic Support**', *Online Learning Journal*, [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1207> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1207> [accessed 25 February 2019]

- Online classes have significantly increased over the last 20 years (see publication date). From a simple asynchronous model to a complex, interactive, live system, they challenge many online students. Based on Knowles' Andragogy theoretical framework, researchers sought to explore the qualities students need to complete a first term undergraduate online course. Researchers conducted a quantitative exploratory study to identify the effects of offering a multifactor orientation; this was an extra seminar online, focused on *organisational skills, goal setting, orientation to the online classroom, and academic support* for successfully completing a first term class. Participants at an online university in a first term course agreed to attend a faculty-led, one-hour presentation; this was an extra seminar focusing on organisational skills, goal setting, orientation to the online classroom, and academic support. A total of 25 students volunteered and attended the extra seminar, provided by three faculty members who were experience in teaching first-term students in a school of business at a large online university. There was a total of six separate classes of students, each attending a first-term, 10-week course, *Academic Strategies for the Business Professional*. The course is a combination of synchronous live seminars- and other asynchronous interactive exercises, focusing on providing a foundation for secondary learning. Students in three of those classes were invited to participate. Three faculty members randomly selected a section of this course prior to the beginning of a new term. Once the term started, the faculty, during the first regular live seminar, invited their respective students to the selected treatment class. A total of 144 students were still on the roster at the end of the courses. Of those, 25 were male (17%). There were only 35 males in all the classes, 24% of the total number of students, so the percentage of males in the treatment group was less than the number of males in all the courses. The average number of males (25%) are enrolled in the school. There was no compensation for attending the extra seminar and an IRB approved the study.

Keywords: organisational skills, goal setting, orientation to online class, academic support

- Yu T (2018) '**Examining Construction Validity of the Student Online Learning Readiness (SOLR) Instrument Using Confirmatory Factor Analysis**', *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at:

<https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1297> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1297> [accessed 25 February 2019].

- This study examines the construct validity of the Student Online Learning Readiness (SOLR) instrument. The SOLR instrument consists of 20 items to evaluate social competencies, communication competencies, and technical competencies in online learning. A large Midwestern university was selected to test the construct validity of the SOLR instrument. A total of 347 undergraduate students participated in this study. Confirmatory factor modelling approach was used to assess the construct validity of the SOLR instrument for this study. As a result of Confirmatory Factor Analysis (CFA), the hypothesized model of 20-item structure of the SOLR instrument was verified as a good fit for the data (χ^2 (164, N=347)=1959.94, $p < .001$, IFI=.81, CFI=.81, GFI=.55, RMSEA=.016).

Keywords: Student readiness; online learning; factor analysis.

- Truhlar A M (2018) '**Student engagement with course content and peers in synchronous online courses discussions**', *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1389> [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1389> [accessed 25 February 2019].

- As higher education institutions in United States offer online courses to growing audiences, there is increasing desire to understand how best to engage students with both course content and their peers. This case study examines the effects of assigning chat roles and facilitating self and group reflection on student-content and student-student interaction outcomes in four synchronous chats conducted in an online introductory-level sustainability course. We also considered what occurred within group reflections to inform how they are structured in the future. We found that assigning roles increased the proportion of critical student-student interactions. Self-reflections had no effect on either interaction type. Groups completing group reflections had a greater of critical student-content interactions in the third chat and critical student-student interactions in the fourth chat than the groups that did not complete the group reflections. Based on our results, we plan to keep roles and group reflections going forward and eliminate self-reflections. Furthermore, to increase the effectiveness of the group reflections, we propose some ideas to increase student ability to convert their ideas into change during subsequent chats.

Keywords: Online debate; Roles; Reflections; Critical thinking; Socratic questioning; Student agency

- Buelow J R, Barry T A [et al.] (2018) '**Supporting Learning Engagement with Online Students**', *Online Learning Journal*, [S.I.] 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1384>. [accessed 25 February 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1384>. [accessed 25 February 2019].

- University students are increasingly demanding that traditionally taught courses are converted to an online platform. While quality standards are in place for the format and organisation of online courses, professors often are left wondering what activities contribute to learning engagement for their online students. The research question driving this study was, what activities contribute to learning engagement for online students? To investigate this question, an online survey was conducted in one state university of all students taking an online course during the spring semester. With responses from 417 students and using three standardised scale variables for learning engagement, as well as two open-ended questions, course components related to strong learning engagement were identified and examined, Initial findings indicated a statistically significant moderate correlation of learning engagement with the use of higher-order learning and reflective and integrative learning techniques. Specifically, students who reported being highly engaged connected ideas from other courses, changed their understanding of a topic or concept, found connections between their learning and societal problems, and had fun. A regression model using these variables, along with control variables of student age, gender, and out-of-school work, resulted in an R^2 of 0.484, suggesting that almost half of the variance in learning engagement can be explained via this model. Further analysis of the qualitative data identified certain aspects of online discussions and assignments as engaging, such as discussions and interactive assignments that are not merely "fun" from a student perspective but also integrate previous learning and connect to current social issues. This includes prompting students with thought-provoking questions that relate to "real-world" situations and inviting students to share diverse opinions as well as develop personal perspectives.

Keywords: learning engagement; higher order learning; reflective and integrative learning; discussion forums; interactive assignments; online learning.

Source: *Online Learning Journal* [online], **Volume 22, No. 4, December 2018**. Available at <https://olj.onlinelearningconsortium.org/index.php/olj> [accessed 25 February 2019] Online Learning Consortium (OLC)

Related Links:

MERLOT – Multimedia Educational Resource for Learning and Online Teaching [online] and further information available at: <https://www.merlot.org/merlot/index.htm> [accessed 22 February 2019]. **JOLT**, MERLOT's Journal

for Online Learning and Teaching [online] and available at: <http://jolt.merlot.org/index.html> [accessed 25 February 2019]

The State of Innovation in Higher Education: A Survey of Academic Administrators

This report explores the drivers and barriers to innovation at U.S. higher education institutions. The report, which is based on a survey of more than 100 U.S. academic administrators, reveals what an innovative culture looks like and how higher education institutions define and employ innovation.

A joint project of The Learning House, Inc. and the Online Learning Consortium (OLC) [online]. Available at: <https://onlinelearningconsortium.org/read/state-of-innovation-in-higher-education/> [accessed 25 February 2019]

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The Open Education Research Hub ([OER Hub](#))

The Open Education Research Hub (OER Hub) research the impact of open educational resources (OER) in teaching and learning practices.

OER Hub – Researching Open Education gathers research on the impact of open educational resources (OER) on learning and teaching practices. The OER Research Hubs intention is to respond to a need from the OER world for more research on which they can base their decisions. The Research Hub shares evidence that is gathered through mixed methods research including interviews, surveys, focus groups, critical incidence analysis, activity theory and analysis of learning design. Findings are likely to be of interest to a wide range of stakeholders in the education sector. The project is based at The Open University's (OU) Institute of Educational Technology and is the OU's flagship project for research into open education and OER.

Open Educational Resources (OER) Research Hub [online]. Further information is available at <http://oerhub.net/> [accessed 25 February 2019].

Within the OER Hub there are sections on

Publications incl. research articles, book chapters and conference proceedings

Research and Outputs Incl. Academic publications, presentations, non-traditional outputs, and openly licensed data.

& Case Studies incl. examples of collaborations and activities highlighting areas of research or data analysis carried out for key clients.

Example articles/papers in the most recent **Summary of Research Dissemination** (available to download from the below mentioned link and under 'Publications') include:

Articles from *Open Praxis* highlighted earlier on, as well as

- De los Arcos B, Farrow R, Weller M, and McAndrew P (2016) 'Personalising learning through adaptation: Evidence from a global survey of K-12 teachers' perceptions of their use of open educational resources', *Journal of Online Learning Research*, 2(1), 23-40. Association for the Advancement of Computing in Education (AACE). Accessible via the **LearnTechLib** (The Learning and Technology Library) [online]. Available at: www.editlib.org/p/151664 [accessed 25 February 2019]
- Farrow R, de los Arcos B, and Weller M (2015) 'Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources', *European Journal of Open, Distance and E-learning*, 18(2) [online]. Available at: <http://oro.open.ac.uk/44962/> [accessed 25 February 2019]
- Pitt R (2015) 'Mainstreaming Open Textbooks: Educator Perspectives on the Impact of OpenStax College open textbooks', *The International Review of Research in Open and Distributed Learning (IRRODL)* 16(4): 133-155 [online]. Available at: www.irrodl.org/index.php/irrodl/article/view/2381 [accessed 25 February 2019]
- Deimann M, and Farrow R (2013) 'Rethinking OER and their use: Open Education as Building', *International Review of Online and Distance Learning* 14(3) [online]. Available at: www.irrodl.org/index.php/irrodl/article/view/1370/2542 [accessed 25 February 2019].

- McAndrew P, and Scanlon E (2013) 'Open learning at a distance: lessons for struggling MOOCs', *Science*, 342 pp. 1450-1451 [online]. Available at: <http://oro.open.ac.uk/39736/> [accessed 25 February 2019]
- McAndrew P, and Farrow R (2013) "Open Education Research: From the Practical to the Theoretical" in McGreal, R., Kinuthia, W. and Marshall, S. (eds) *Open Educational Resources: Innovation, Research and Practice*. Commonwealth of Learning and Athabasca University, Vancouver. pp.65-78 [online]. Available at: <https://oerknowledgecloud.org/content/open-education-research-practical-theoretical> [accessed 25 February 2019].
- De Liddo A, Buckingham S S, McAndrew, P, and Farrow, R. (2012) 'The Open Education Evidence Hub: A Collective Intelligence Tool for Evidence Based Policy'. In Okada, A. (ed.) *Open Educational Resources and Social Networks: Co-Learning and Professional Development*. London: Scholio Educational Research & Publishing [online]. Available at: http://oer.kmi.open.ac.uk/?page_id=1201#.V6NI_esrJhE [accessed 25 February 2019].

Open Educational Resources (OER) 'Summary of Research Dissemination - OER Hub' [OER Hub – Researching Open Education homepage > Research & outputs > Publications] OER Hub [online]. Further information is available at: <http://oerhub.net/> [accessed 25 February 2019].

Related links:

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 25 February 2019]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 25 February 2019]

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The Directory of Open Access Journals (DOAJ) –

The Directory of Open Access Journals covers all open access scientific and scholarly journals using a quality control system to guarantee the content.

The aim of the DOAJ is to increase the visibility and ease of open access scientific and scholarly journals, therefore promoting increased usage and impact.

Some key DOAJ facts (as of 25/02/2019):

- **12,727** journals
- **9,725** journals searchable at article level
- **128** countries
- **3,780,341** articles

The Directory of Open Access Journals (DOAJ) <https://doaj.org/> [accessed 25 February 2019]

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e-Journal Review cont.

Taylor and Francis Online

Every month I will be highlighting a few full-text e-Journals that are currently available through the UCEM e-Library.

This month we focus on the latest articles from those Taylor & Francis Online / Routledge journals that we now have full subscription to and this includes access to the archive of back issues (from 1995 for those journals that have print that go back that far and to the current day) incl.

- ***Construction Management and Economics***
- ***Building Research and Information, and***
- ***Journal of Property Research.***

Construction Management and Economics

1. Construction Management and Economics (CME) is the leading international refereed journal that publishes original research concerning the management and economics of building and civil engineering, while also including the management of built facilities.

Taylor and Francis, *Construction Management and Economics* [online]. Available at: www.tandfonline.com/toc/rcme20/current [accessed 25 February 2019]

Example articles/papers in the most recent issue include:

- Black boxing BIM: the public client's strategy in BIM implementation

Lindblad H (2019) '**Black boxing BIM: the public client's strategy in BIM implementation**', *Construction Management and Economics*, 37(1), pp1-12, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/01446193.2018.1472385](https://doi.org/10.1080/01446193.2018.1472385) [accessed 25 February 2019]

- Looking out to look in: inspiration from social sciences for construction management research

Volker L (2019) '**Looking out to look in: inspiration from social sciences for construction management research**', *Construction Management and Economics*, 37(1), pp13-23, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/01446193.2018.1473619](https://doi.org/10.1080/01446193.2018.1473619) [accessed 25 February 2019]

- Untangling decision tree and real options analyses: a public infrastructure case study dealing with political decisions, structural integrity and price uncertainty

van den Boomen M, Spaan M. T. J, Schoenmaker R, and Wolfert A. R. M. (2019) '**Untangling decision tree and real options analyses: a public infrastructure case study dealing with political decisions, structural integrity and price uncertainty**', *Construction Management and Economics*, 37(1), pp24-43, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/01446193.2018.1486510](https://doi.org/10.1080/01446193.2018.1486510) [accessed 25 February 2019]

- Impacts of human communication network topology on group optimism bias in Capital Project Planning: a human-subject experiment

Du J, Zhao D, and Zhang O (2019) '**Impacts of human communication network topology on group optimism bias in Capital Project Planning: a human-subject experiment**', *Construction Management and Economics*, 37:1, 44-60, DOI: [10.1080/01446193.2018.1508848](https://doi.org/10.1080/01446193.2018.1508848) [accessed 25 February 2019]

Please note: that this journal can be accessed (IN FULL) via the **VLE e-Library**, and by logging into **Athens – Section 2**, and by selecting **Taylor and Francis Online** via the **Resources** tab.

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Building Research and Information

2. Building Research and Information (BRI) is a leading international refereed journal focused on buildings and their supporting systems. Unique to BRI is a focus on a holistic, trans-disciplinary approach to their life: planning, briefing, design, construction, occupation and use, property exchange and evaluation, maintenance, alteration and end of life. Published articles provide conceptual and evidence-based approaches which reflect the complexity and linkages between cultural, environmental, economic, social, organisational, quality of life, health, well-being, design and engineering of the built environment.

BRI's wide scope embraces:

- The linkages between the built, natural, social and economic environments, with an emphasis on the interactions between theory, policy and practice: impacts on ecologies, resources (water, energy, air, materials, buildings stocks etc.), sustainable development (social, economic, environmental, and natural capitals) and climate change (mitigation and adaptation).
- The (design, technical, social, organisational, economic) performance, impacts, assessment, contributions, improvement and value of buildings, building stocks and related systems.
- The supply chain capabilities to innovate, design, create, maintain and improve the performance of both buildings and products

- Changing demands and aspirations for architectural design, development and property
- Formulation of public policy; research, academic and innovation capabilities; organisational structures and networks; engagement between research users, policy makers and practitioners to effectively support the above scope and objectives.

Taylor and Francis, *Building Research and Information* [online]. Available at: www.tandfonline.com/toc/rbri20/current [accessed 25 February 2019]

Example information/ research articles/papers in the most recent issue:

Research:

- **The House of Commons: a precedent for post-occupancy evaluation**

Schoenefeldt H (2019) '**The House of Commons: a precedent for post-occupancy evaluation**', *Building Research & Information*, 47(6), pp635-665, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2019.1547547](https://doi.org/10.1080/09613218.2019.1547547) [accessed 25 February 2019]

- **Life cycle assessment of a Danish office building designed for disassembly**

Malabi Eberhardt L C, Birgisdóttir H, and Birkved M (2019) '**Life cycle assessment of a Danish office building designed for disassembly**', *Building Research & Information*, 47(6), pp666-680, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1517458](https://doi.org/10.1080/09613218.2018.1517458) [accessed 25 February 2019]

- **Communicating environmental information: rethinking options for construction products**

Ströbele B, and Lützkendorf T (2019) '**Communicating environmental information: rethinking options for construction products**', *Building Research & Information*, 47(6), pp681-696, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1521191](https://doi.org/10.1080/09613218.2018.1521191) [accessed 25 February 2019]

- **Stochastic Petri-net models to predict the degradation of ceramic claddings**

Ferreira C, Canhoto Neves L [et al.] (2019) '**Stochastic Petri-net models to predict the degradation of ceramic claddings**', *Building Research & Information*, 47(6), pp697-715, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1501873](https://doi.org/10.1080/09613218.2018.1501873) [accessed 25 February 2019]

- **A critical analysis of research of a mass-housing programme**

Kowaltowski D C C K, Muianga E A D M [et al] '**A critical analysis of research of a mass-housing programme**', *Building Research & Information*, 47(6), pp716-733, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1458551](https://doi.org/10.1080/09613218.2018.1458551) [accessed 25 February 2019]

Information

- **Optimal spaces for those living with dementia: principles and evidence**

Barrett P, Sharma M, and Zeisel J (2019) '**Optimal spaces for those living with dementia: principles and evidence**', *Building Research & Information*, 47(6), pp734-746, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1489473](https://doi.org/10.1080/09613218.2018.1489473) [accessed 25 February 2019]

- **Healing built-environment effects on health outcomes: environment-occupant-health framework**

Zhang Y, Tzortzopoulos P, and Kagioglou M (2019) '**Healing built-environment effects on health outcomes: environment-occupant-health framework**', *Building Research & Information*, 47(6), pp747-766, DOI: [10.1080/09613218.2017.1411130](https://doi.org/10.1080/09613218.2017.1411130) [accessed 25 February 2019]

- **Policy implications for the performance gap of low-carbon building technologies**

McElroy D J, and Rosenow J (2019) '**Policy implications for the performance gap of low-carbon building technologies**', *Building Research & Information*, 47(6), pp611-623, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1469285](https://doi.org/10.1080/09613218.2018.1469285) [accessed 25 February 2019]

- **Conceptual approaches to wellbeing in buildings: a scoping review**

Hanc M, McAndrew C, and Ucci M (2019) '**Conceptual approaches to wellbeing in buildings: a scoping review**', *Building Research & Information*, 47(6), pp767-783, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1513695](https://doi.org/10.1080/09613218.2018.1513695) [accessed 25 February 2019]

Please note: that this journal can be accessed (IN FULL) via the **VLE e-Library**, and by logging into **Athens – Section 2**, and by selecting **Taylor and Francis Online** via the **Resources** tab.

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Journal of Property Research

3. Journal of Property Research welcomes original papers on any area of real estate investment and development. These may be theoretical, empirical, case studies or critical literature surveys.

There are two major areas of focus:

- Property investment and finance. This covers topics such as the characteristics of property as an investment class, forecasting of markets and property portfolio construction. Much of this research will be an application to property of techniques developed in other investment markets.
- Land development. This covers a wide range of issues surrounding the development and redevelopment of property. The focus may be financial, economic or environmental; urban or rural; public or private sector.

Taylor and Francis, *Journal of Property Research* [online]. Available at: www.tandfonline.com/toc/rjpr20/current [accessed 25 February 2019]

Example **Latest articles**/papers in the most recent issue include:

- Asset pricing, spatial linkages and contagion in real estate stocks

Milcheva S, and Zhu B (2018) '**Asset pricing, spatial linkages and contagion in real estate stocks**', *Journal of Property Research*, 35(4), pp271-295, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2018.1485725](https://doi.org/10.1080/09599916.2018.1485725) [accessed 25 February 2019]

- Gender diversity and financial performance: evidence from US REITs

Schrand L, Ascherl C, and Schaefer W (2018) '**Gender diversity and financial performance: evidence from US REITs**', *Journal of Property Research*, 35(4), pp296-320, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2018.1549587](https://doi.org/10.1080/09599916.2018.1549587) [accessed 25 February 2019]

- House prices and proximity to kindergarten – costs of distance and external effects?

Theisen T, and Emblem A W (2018) '**House prices and proximity to kindergarten – costs of distance and external effects?**', *Journal of Property Research*, 35(4), pp321-343, London: Taylor and Francis Online, DOI: [10.1080/09599916.2018.1513057](https://doi.org/10.1080/09599916.2018.1513057) [accessed 25 February 2019]

- News-based sentiment analysis in real estate: a machine learning approach

Hausler J, Ruscheinsky J, and Lang M (2018) '**News-based sentiment analysis in real estate: a machine learning approach**', *Journal of Property Research*, 35(4), pp344-371, London: Taylor and Francis Online, DOI: [10.1080/09599916.2018.1551923](https://doi.org/10.1080/09599916.2018.1551923) [accessed 25 February 2019]

Please note: that this journal can be accessed (IN FULL) via the **VLE e-Library login**, or via section 2 - **Athens gateway to eLibrary resources**, and by selecting **Taylor and Francis Online** via the **Resources** tab.

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Henry Stewart Publications



Please note: that the below-mentioned journals can be accessed (IN FULL) via the **VLE e-Library**, and by logging into **Athens – Section 2**, and by selecting **Ingenta Connect** via the **Resources** tab incl. following journals incl.

- Applied Marketing Analytics
- **Corporate Real Estate Journal**
- Cyber Security: A Peer-Reviewed Journal
- Journal of Airport Management

- Journal of Brand Strategy
- **Journal of Building Survey, Appraisal and Valuation**
- Journal of Business Continuity & Emergency Planning
- Journal of Cultural Marketing Strategy
- [Journal of Data Protection & Privacy](#)
- Journal of Digital & Social Media Marketing
- Journal of Digital Banking
- Journal of Digital Media Management
- **Journal of Education Advancement & Marketing**
- Journal of Financial Compliance
- Journal of Payments Strategy & Systems
- Journal of Risk Management in Financial Institutions
- Journal of Securities Operations & Custody
- **Journal of Supply Chain Management, Logistics and Procurement**
- **Journal of Urban Regeneration and Renewal**
- Management in Healthcare: A Peer-Reviewed Journal

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e-Journal Review Archive

When I started my role as the UCEM Information Governance Manager, I catalogued over **2000** e-Journal titles onto the A-Z Directory (section 3 of the VLE e-Library) and accessed via Athens.

Whilst cataloguing I was wondering how many of these e-Journals are actually being used within ‘Recommended Reading’ or ‘Study Material’ development by Tutors? Therefore, in each monthly issue of *Knowledge Foundations* I will be highlighting a few e-Journals that are available and accessed through the UCEM Athens gateway as a current awareness service.

Please Note: the below e-Journals are available in [Full-Text](#) copies

The following journals have been reviewed thus far, i.e.

A	Accounting Education (JAI)	F	‘Foresight’, an international bi-monthly journal concerned with the study of the future
B	Building Research and Information	H	International Journal of Housing Markets and Analysis
	Business and Management in Higher Education (BMHE)	I	Internet Research
	Business Economics		Interactive Technology and Smart Education
	Journal of Economic Studies	L	Landlord and Tenant Review
C	Campus-Wide Information Systems		International Journal of Law and Management
	Construction Management & Economics		International Journal of Law in the Built Environment

	Construction Innovation: Information, Process, Management		International Journal of Law and Management
	Construction Law Journal and Construction Newsletter	M	Journal of Management and Sustainability
	Construction Management and Economics		Management Research Review
	Construction Newsletter		International Marketing Review
	Journal of Construction Research	O	Journal of Online Learning and Teaching (JOLT)
D	Development and Learning in Organisations		Open Praxis , a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.
	International Journal of Disaster Resilience in the Built Environment		International Journal of Organisational Analysis
	Disaster Prevention and Management	P	Journal of Planning and Environmental Law
E	Oxford Bulletin of Economics and Statistics		Practice-based Learning
	Journal of Economic Education		Journal of Property Investment and Finance (Previously published as: Journal of Property Valuation and Investment)
	Journal of Economic Literature		Property Law Bulletin
	Education + Training		Property Management
	Journal for Education in the Built Environment , The		Journal of Property Research
	International Journal of Educational Management	Q	Quality Assurance in Education
	Energy, Sustainability and Society	R	Real Estate Economics
	Enhancing Learning in the Social Sciences (EliSS)		Journal of Real Estate Portfolio Management
	Engineering, Construction and Architectural Management		Journal of Real Estate Research
	Engineering Education		Reference Services Review
F	Facilities		Journal of Research in Interactive Marketing
	Journal of Facilities Management	S	Smart and Sustainable Built Environment
	Financial Accountability and Management		Structural Survey
	Journal of Financial Management of Property and Construction		Sustainability
	Financial Practice and Education		Journal of Sustainable Development

Special issues:	
Property and Construction	Online Learning [01/14]
International Focus [07/13]	Higher Education Academy Online [03/14]
Higher Education [08/13]	Environment [03/14]
Law [09/13]	Open Access and Online Learning [04/14]
Research [10/13]	Business and Management Education in Higher Education [05/14]
Economics [11/13]	Finance, Financial Management and Accounting [06/14]
Sustainability [12/13]	Research and Innovation in open, distance and flexible education [07/14], [03/15]

Lucy's searching top tips – The reason why I am listing the topics covered and some of the journals reviewed each month is to provide a quick reference list and tool. Should you wish to access journals relating to a specialist area or journal, you i) access the latest issue of the *Knowledge Foundations* (available via the VLE e-Library and under section 6 – UCEM Published Material), ii) Have a quick browse down the list and identify your specialist journal or focus area. iii) In the case of Special issues, note the month that covered that topic, iv) go back to the VLE e-Library page and v) download the appropriate monthly *Knowledge Foundations* (formerly e-bulletin) which specialises in that subject area. 😊

To access the Directory of e-Journals, visit the VLE e-Library and scroll down to Section 3. Note: to access these journals in full online, you will need to log-in to Athens.

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e-Book Review

The **UCEM VLE e-Library** is currently building on its' e-Book collection, available through **Athens** and by clicking on **DawsonEra** (listed within **the Resources** section). It is hoped that over time, UCEM will provide greater access to e-Books over hard-copy versions to provide the students with greater flexibility and access to a wide range of publications.

Often books may have an excellent chapter covering a topic you wish to discuss, and this can prove expensive in purchasing and posting, when only a small section of the book is relevant. Therefore, drawing attention to an e-Book via the e-Library and recommending they read a particular chapter is much more efficient and effective and allows UCEM to build their library as well as providing a wider range of publications for students to access and Tutors to use in supplementing their Teaching and Learning Materials.

Please note: By visiting the VLE e-Library and the various digital subscriptions that UCEM currently holds, students and tutors can gain access to a wealth of additional online material and catalogues incl. a range of reference e-books available within the construction and real estate sectors. For example, **IHS Information Services** and the **Construction Information Service** (accessible via Athens) holds a vast array of eBooks. You can also access **RICS** published material incl. eBooks via **ISURV** (accessed via Section 5 of the VLE e-Library).

Six books that are currently available are as follows:

1. The Battle for Open: How openness won and why it doesn't feel like victory
2. The new landscape of mobile learning: Redesigning education in an app-based world
3. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
4. Studying at a Distance

5. Rethinking Pedagogy for a Digital Age, 2nd edition

6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

The first and sixth book, as well as the second 'book review' mentioned above are freely available online. However, the other three have been purchased by UCEM and are available, as e-Books, within the VLE e-Library and via Athens and Dawson Books. Once you have accessed DawsonEra, if you click on 'eBook Catalogue' within the top toolbar, this contains UCEM purchased eBooks. Alternatively, you can search for the title within the Advanced Search engine.

1. The Battle for Open: How openness won and why it doesn't feel like victory.

Weller, M. (2014). *The Battle for Open: How openness won and why it doesn't feel like victory* [e-book]. London: Ubiquity Press. Available at: <http://dx.doi.org/10.5334/bam> [accessed 25 February 2019]

Dominguez, D. (2015). Book review of The Battle for Open. *Open Praxis*, 7(2), 191-193. doi:10.5944/openpraxis.7.2.208

ISSN: 2304-070X, International Council for Open and Distance Education (ICDE)

Has the openness movement won the battle to transform itself into a mainstream phenomenon in higher education? If the answer is yes, does this mean that the disputes with other educational technological solutions, restricted, have definitely ended? Or rather is it only the beginning of a long confrontation to take centre stage in a digital ecosystem that is increasingly more nuanced, where the number of actors keeps growing and the limits on what is open is ever more diffuse?

In this new book, the author Martin Weller attempts to find answers to these questions. To do so, he introduces a group of quite varied subjects on evolution and the current state of higher education. As such, his contribution turns into an authentic manual for everyone who has an interest in the digitization of education.

Keywords: Open access; open education; OER.

2. The new landscape of mobile learning: Redesigning education in an app-based world -

Miller, C., & Doering, A., (Eds.). (2014). *The new landscape of mobile learning: Redesigning education in an app-based world* (1st ed.). New York, NY: Routledge

Hetrick, T. (2015). Book review of *The new landscape of mobile learning: Redesigning education in an app-based world*. *Open Praxis*, 7(1), 113-115. doi:10.5944/openpraxis.7.1.178. **ISSN:** 2304-070X, International Council for Open and Distance Education (ICDE)

This is a book review on *The new landscape of mobile learning: Redesigning education in an app-based world*, by editors Charles Miller and Aaron Doering. This is an edited book, but one for which the editors sought out specific authors to write about their experiences and expertise on mobile learning. One of Miller and Doering's goals is to promote greater thinking about mobile learning through the understanding that learning is a complex process built from pedagogical foundations that integrate social interactions with technology. The editors argue that a fundamental aspect to mobile learning is mobility, which is the ability to freely move about and collaborate in an authentic environment in which learners gain insight and construct knowledge. The authors try to address problems in mobile learning and put forth solutions, but this also highlights the fragmented problems of mobile learning as the book in itself is fragmented. Instead of treating mobile learning as its own system or field, it becomes evident that one should be describing mobile learning as mobile integration and explores how to use mobility in the everyday learning context. From the perspective of mobile integration, this book is very practical as the authors did an outstanding job of providing information about the steps of integrating mobile devices into specific areas to assist or augment learning.

3. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education

By Moore, C., (c2017). *Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education*. IGI Global

The integration of technology has become an integral part of the educational environment. By developing new methods of online learning, students can be further aided in reaching goals and effectively solving problems. *The Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education* is an authoritative reference source for the latest scholarly research on the implementation of instructional strategies, tools, and innovations in online learning environments. Featuring extensive coverage across a range of relevant perspectives and topics, such as social constructivism, collaborative learning and projects, and virtual worlds, this publication is ideally designed for academicians, practitioners, and researchers seeking current research on best methods to effectively incorporate technology into the learning environment.

4. Studying at a Distance -

By Talbot, C., (01/08/2010), Publisher: Open University Press

e-ISBN-13: 9780335238057

This essential guide provides practical help and support for those who have not previously studied at a distance and is ideal for students returning to study after a break. It covers fundamental issues such as motivation, goal setting, time management and coping strategies. Additional coverage in this third edition includes: specific information on the use of new technologies in distance learning; detailed coverage of referencing, citation and plagiarism; description of using mind maps and other techniques for planning and writing essays or reports; support for disabled students, particularly those with dyslexia; and, an expanded further resources section.

5. Rethinking Pedagogy for a Digital Age –

Edited by Beetham, H., & Sharpe, R., Publisher: Routledge

e-ISBN-13: 9780203078952

Through a critical Discussion of the issues surrounding the design, sharing and reuse of learning activities, the second edition of *'Rethinking Pedagogy for a Digital Age'* examines a wide range of perspectives on effectively designing and delivering learning activities to ensure that future development is pedagogically sound, learner-focused, and accessible.

Keywords: Education; Pedagogy; e-Learning

6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

Adding Some TEC-VARIETY by Curtis J. Bonk and Elaine Khoo

As this book states, "Motivation is central to all things human" and Online teaching and learning are no different.

The authors of this FREE ONLINE BOOK propose the TEC-VARIETY framework as a solution to the lack of meaningful engagement. It can shift learners from nearly comatose states to actively engaged ones. *Adding Some TEC-VARIETY* helps instructors focus on how to motivate online learners and increase learner retention. It also is a comprehensive, one-stop toolkit for online instructors to inspire learners and renew their own passion for teaching. Using 10 theoretically driven and proven motivational principles, TEC-VARIETY offers over 100 practical yet innovative ideas based on decades of author experience teaching in a variety of educational settings.

Source: **Adding Some TEC-VARIETY** by Curtis J. Bonk and Elaine Khoo [online]. Available at: <http://tec-variety.com/> [accessed 25 February 2019]

Please note: The authors have made an online version of this work available under a Creative Commons Attribution-Non-commercial-Share Alike 3.0 License; for details, please see <http://creativecommons.org/licenses/by-nc-sa/3.0/us/> [accessed 11 February 2019]. The e-book PDF can be accessed through the book homepage [online]. Available at: <http://tec-variety.com> and <http://tec-variety.com/freestuff.php> [accessed 25 February 2019]

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The Directory of Open Access Books ([DOAB](#)) –

The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable in order to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

Some key DOAB facts (as of 25/02/2019):

- **15,696** Academic peer-reviewed books from
- **307** publishers

The Directory of Open Access Books (DOAB) www.doabooks.org/doab [accessed 25 February 2019]

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Latest book and journal titles

Latest book titles from

Elsevier is a world-leading provider of information solutions that help you make better decisions, deliver better care, and sometimes make ground-breaking discoveries in science, health, and technology.

Built Environment including Architecture, Building and Construction, and Property and Real Estate [online].

Further information is available at: www.elsevier.com/ [accessed 25 February 2019]

LawTrove [online]. Further information is available at: www.oxfordlawtrove.com/ [accessed 25 February 2019]

- Oxford University Press (OUP) is a leading publisher of legal education materials, producing a broader and deeper range than any other publishers. **Law Trove** takes that award content and makes it available online, to suit your way of working. Studying law is about discovery; finding the links, examining the detail, and unravelling the connections make it a complex and fascinating subject. **Law Trove** facilitates a rounded and complete study of law. Its powerful search facility means you can delve deeper into your life, navigate more easily, and connect with additional resources in your own institution's library collection. **N.B.** There is a section where you can search the catalogue and 'access free content / Open Access material'.

Palgrave Macmillan - From award-winning research which changes the world to textbooks and study guides which educate and inspire, Palgrave Macmillan publish across the humanities, social sciences and business for academics, students, professionals and librarians worldwide. Palgrave Macmillan [online]. Further information is available at: www.palgrave.com/gb/ [accessed 25 February 2019]

Taylor & Francis/Routledge – T&F (an Informa business) is a world famous name in academic and professional books, journals and online resources relating largely to the humanities, social sciences, the Built Environment and Sustainability.

Visit Taylor & Francis online @ www.tandfonline.com [accessed 25 February 2019]

Taylor & Francis Open and Routledge Open - Taylor & Francis and Routledge currently publish a number of pure open access journals, with no subscription content. The articles in these journals receive both rigorous peer review and expedited online publication [online] and available @ www.tandfonline.com/openaccess [accessed 25 February 2019]

Latest info: Property and Real Estate catalogue [online] and available at: www.routledge.com/collections/4812 [accessed 25 February 2019]

Other subject categories incl.

- Architecture - www.routledge.com/architecture/
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[websites correct as at 22 February 2019]

The Routledge Sustainability Hub - An innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability. Further information available at: www.routledge.com/textbooks/sustainability [accessed 25 February 2019]

Wiley is the international scientific, technical, medical, and scholarly publishing business of John Wiley & Sons, with strengths in every major academic and professional field and partnerships with many of the world's leading societies. For more information, please visit www.wiley.com [accessed 25 February 2019] and <http://eu.wiley.com/WileyCDA/> [accessed 25 February 2019].

'Wiley' Online Library hosts the world's broadest and deepest multidisciplinary collection of online resources covering life, health and physical sciences, social science, and the humanities. It delivers seamless integrated access to over 6 million articles from over 1500 journals, over 16,000 online books, and hundreds of reference works, laboratory protocols and databases. Further information is available online at:

<http://onlinelibrary.wiley.com/> [accessed 25 February 2019]

Wiley Open Access [online]. Further information is available at: <http://olabout.wiley.com/WileyCDA/Section/id-406071.html> [accessed 25 February 2019]

- Business and Management [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000028> [accessed 25 February 2019]
- Economics [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000047> [accessed 25 February 2019]
- Law [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000076> [accessed 25 February 2019]
- Civil Engineering and Construction [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000034> [accessed 25 February 2019]

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Information Governance incl. © Guidance and Data Protection:

“It is important to remember that Copyright material in digital form is protected in exactly the same way as Copyright material in any other format. For example, text and images on a website are protected by copyright in the same way as printed material.

Please note: if there is something you really want to use for learning materials and someone else owns the copyright ... permission must be sought!

The copyright owner may wish to charge you, but often they just appreciate you asking them if they are happy for you to acknowledge their work and inform them of how the information will be used and who it will be circulated to”.

Source: Salmon, Prof. G., (2013), *E-tivities*, London, Routledge.

Copyright

The Copyright Licensing Agency Ltd (CLA)

The CLA are a licensing body as defined by the Copyright, Designs and Patents Act 1988 c.48 (as amended) [“CDPA”].

The CLA licence organisations to copy and re-use extracts from print and digital publications on behalf of the copyright owners – authors, publishers and visual artists. By ‘copying’ the CLA means photocopying, scanning,

and re-use of content from magazines, books, journals, electronic and online publications, as well as press cuttings or documents supplied by a licensed third party.

Having a CLA licence helps to reduce the risk and potential cost of copyright infringement. This requirement applies to any organisation in the business, education, public or charitable sectors.

The Copyright Licensing Agency (CLA) - www.cla.co.uk [accessed 25 February 2019]

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CLA [Title search tool](#)

The **CLA Title Search** is an online search tool that lets you quickly find out what you can copy under your organisation's CLA licence.

Whether you'd like to photocopy and distribute an article to colleagues or upload a report to an intranet or VLE, the CLA Title Search simplifies the steps required to ensure compliance.

UCEM has a **CLA 'Independent Higher Education Photocopying and Scanning Licence'**

CLA Higher Education, Check Permissions @ www.cla.co.uk/higher-education-licence [accessed 25 February 2019]

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Further guidance on Copyright and Digital Copyright incl.

- What is copyright? @ www.cla.co.uk/what-is-copyright [accessed 22 February 2019]
- When does copyright arise?
- What does copyright protect?
- Who owns copyright?
- Joint ownership of copyright
- What rights does a copyright owner have?
- How long does copyright last?
- Copyright infringement
- Remedies for copyright infringement
- Copyright exceptions
- Obtaining clearance to use copyright material
- CLA and copyright licences

Related organisations and links @ www.cla.co.uk/related-organisations, and www.cla.co.uk/ [accessed 25 February 2019]

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5 Ways to find images for your website

The author of this article highlights the point that finding good images online is fairly easy but finding images that are licensed for reuse can be hard.

It is often difficult to know when it's ok to reuse an image that has been published online and when it's not. The internet may be a global network, but each country has different copyright laws and there are not simple best practice rules applicable to everyone.

Within this blog, the author takes a look at a best practice example of online image attribution, some of the problems that face anyone trying to work out if they can reuse an image online and five ways to find images licensed for reuse, including:

- The Creative Commons search tool
- Museums, Libraries and Archives
- Getty images
- Gratisography
- Taking your own photo!

Patrick, E., Online Information Manager at CILIP, the Chartered Institute for Library and Information Professionals, 18th September 2014, '5 ways to find images for your website' [online blog].

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Legal 101 – Know your copyrights from wrongs

Copyright is an issue rarely discussed in construction and development projects, but one that can have far-reaching implications if the relevant permissions are not properly put in place. A Copyright Owner has the right to prevent others from carrying out numerous acts, including copying, adapting, or issuing copies to the public.

What is a copyright work? Any project that involves the creation of new “works” such as research, plans, photographs, diagrams, models, plans or charts – as well as the building itself – will need to consider who owns the copyright in those works.

Who owns the copyright? The first owner of copyright in any work is the author or, if any employee, his or her employer. More than one person can be an author, whether they have worked together or separately. It is also possible for more than one person to own the copyright.

Assignment or Licence? Although it is possible to agree to transfer – or assign – the ownership of copyright, this is rare in the construction and development industry. Consequently, architects, planners and surveyors will each own copyright in the works they produce and have the power to prevent others from using their work at all, or for any purposes other than expressly permitted, as well as controlling permitted uses.

What should a licence cover? Permission to use a copyright work is granted in a licence. This can either be a separate document or included as part of a more wide-ranging contract. The licence sets out exactly who can do what with the relevant copyright work, so it is important that the scope is wide enough to cover everything that may be needed for the project, and, subsequently, permission is given to all people or entities who will need it.

Source: Wheeler, P., partner, Collyer Bristow, March 2015, RICS MODUS, *Legal 101 – Know your copyrights from wrongs*, p47.

Royal Institution of Chartered Surveyors (RICS), *Modus*, March 2015 – The Africa issue [online], RICS, Knowledge, Journals. Available at: www.rics.org/uk/news-insight/publications/modus/ [accessed 25 February 2019]

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Latest Copyright News:

EU Copyright Vote

On 12 September 2018, MEPs approved a measure updating EU copyright law by a 438-226 margin. The parliament had previously rejected plans to launch an immediate ‘trilogue’ with the EC on text as approved by the lead Legal Affairs Committee (JURI) in June (see publication date). It was therefore subject to full debate at the September plenary held earlier in the month.

Whilst much of the public debate surrounded Articles 11 and 13, several other articles in the proposal are of interest to publishers. These include Article 3 which suggests a copyright exception for text and data mining (TDM) for the purposes of scientific research and Article 4, which makes provisions for digital licensing of educational content. There are also provisions that allow writers to get a share of copyright-related remuneration obtained by their publishing house. The directive also strengthens the negotiating rights of authors and performers, by enabling them to “claim” additional remuneration from the party exploiting their rights when the remuneration originally agreed is “disproportionately” low compared to the benefits derived. Debate and discussion between Member States (including the UK for now) is ongoing, although proponents of

the Directive will be hoping that the negotiations can be concluded in good time ahead of the EU Parliamentary elections in the Spring (see publication date).

This and further information is available at:

PLS – Publishers’ Licensing Services (2018) ‘PLS Policy Update December 2018’, London: Publishers’ Licensing Service

Related Links:

EU votes for copyright law that would make internet a ‘tool for control’

Rankin J (2018) ‘EU votes for copyright law that would make internet a ‘tool for control’, *The Guardian*, Internet [online], 20 June. Available at: www.theguardian.com/technology/2018/jun/20/eu-votes-for-copyright-law-that-would-make-internet-a-tool-for-control [accessed 25 February 2019]

From the above-mentioned link you can also gain further information about **Internet; Intellectual property; European commission; Europe; Small business; European Union and news**

Find the latest copyright news from WIRED incl. Finley K (2018) ‘Europe’s New Copyright Law Could Change The Web WorldWide’ [WIRED > Home > Business] WIRED [online]. Available at: www.wired.com/story/europes-copyright-law-could-change-the-web/ [accessed 25 February 2019]

The Guardian Online (2018) European Commission [online]. Available at:

www.theguardian.com/world/european-commission [accessed 25 February 2019]

The Guardian Online (2018) Europe [online]. Available at: <https://www.theguardian.com/world/europe-news> [accessed 25 February 2019]

Malik K (2018) ‘A fairer deal on web copyright doesn’t need the boomer boots from Brussels’, *The Guardian*, Internet, Opinion [online], 8 April. Available at: www.theguardian.com/commentisfree/2018/apr/08/fairer-deal-on-web-copyright-eu-free-speech-open-access [accessed 25 February 2019]

- Free speech and open access are at risk from EU plans to reform legislation for the digital age.

Electronic Frontier Foundation website [online]. Available at: www.eff.org/ [accessed 25 February 2019]

Lucy’s top searching tips – If you are searching for i.e. ‘Joint letter to European politicians on Article 13 of Directive on Copyright in the Digital Single Market’ [online]. Available at:

www.eff.org/search/site/article%2013%20of%20the%20EU%20copyright%20Directive [accessed 25 February 2019], ensure you reference from a public domain ‘landing page’

i.e. Electronic Frontier Foundation (2018) ‘Joint letter to European politicians on Article 13 of Directive on Copyright in the Digital Single Market’ [online]. Available at: www.eff.org/document/joint-letter-european-politicians-article-13-directive-copyright-digital-single-market [accessed 25 February 2019],

rather than to the holding page where the PDF sits in the background. The reasoning for this is that (i) holding page links can change, (ii) documents can be moved around and (iii) in some cases where copyright permission has been sought and agreed for organisations to upload PDF documents, it is good academic practice to ensure that you do not link direct to the PDF itself, and locate either the original source, or link to a public domain website where T&Cs and copyright can be reviewed. Also, by referencing items correctly and using search facilities as identified above, if hyperlinks do not work, you will have sufficient information (within the reference) to hopefully be able to source the item elsewhere.

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Data Protection

Get on track with the new Data Protection rules

As of 25 May 2018, the EU General Data Protection Regulation (GDPR) replaced the EU’s Data Protection Directive. This means, that a single set of data protection rules applies to all companies operating in the EU, wherever they are based.

Get introduced to GDPR – This is the most important change to data privacy regulation in 20 years across Europe.

Where to find guidance - Gain access to a variety of resources available which provide useful information on the changes.

GDPR factsheets – Factsheets providing useful and practical case studies, focusing on specific sectors. These factsheets (accessed via the source link provided below) have been developed by DLA Piper in collaboration with RICS to provide useful and practical case studies, focusing on specific sectors, incl.

- **Building surveying; Construction cost management; Property agency; Property management; and Property valuation.**

Penalties – Organisations in breach of GDPR can be fined up to 4% of annual global turnover or €20 million (whichever is greater). This is the maximum fine that can be imposed for the most serious infringements.

Consent – Companies will no longer be able to use long illegible **terms and conditions** full of legalese, as the request for consent must be given in an intelligible and easily accessible form, with the purpose for data processing attached to that consent (EUGDPR.ORG Portal, 2018).

Roles: ‘Controller’ or ‘Processor’ In considering who GDPR applies to, the terms ‘controllers’ and ‘processors’ are used. To provide a simple definition:

- Controllers determine the purpose and means of processing personal data.
- Processors are responsible for processing personal data on behalf of a controller.

As a processor, GDPR places specific legal obligations to main records of personal data and processing activities. The processor will have legal liability and be responsible for a breach.

For Controllers, GDPR places further obligations on you to ensure your **contracts** with processors comply with the GDPR.

Will GDPR matter for organisations in the UK after Brexit?

For companies in the UK if you process data about individuals in the context of selling goods or services to citizens in other EU countries then you will need to comply with the GDPR, irrespective as to whether or not the UK retains the GDPR post-Brexit.

Source: RICS (2018), ‘New HMO rules come into effect in England on 1 October 2018’ [RICS > Get on track with the new Data Protection rules] RICS [online]. Available at: www.rics.org/uk/footer/gdpr/ [accessed 25 February 2019].

Related Links:

Following on from the earlier comment relating to GDPR in the UK after Brexit, on 13th September 2018, the Department for Digital, Culture, Media & Sport published the following guidance @ GOV.UK

Guidance: Data protection if there’s no Brexit deal

GOV.UK, Department for Digital, Culture, Media and Sport (2018), ‘Guidance: Data protection if there’s no Brexit deal’ [online], 13 September. Available at: www.gov.uk/government/publications/data-protection-if-theres-no-brexit-deal/data-protection-if-theres-no-brexit-deal [accessed 25 February 2019]

& other related links:

EUGDOR.org portal (2018) ‘GDPR Key Changes’ [online]. Available at: www.eugdpr.org/key-changes.html [accessed 25 February 2019]

Designing Buildings.co.uk Wiki, (2018) ‘Terms and Conditions’ [online], last edited 12 July 2018. Further information is available at: www.designingbuildings.co.uk/wiki/Terms_and_Conditions [accessed 25 February 2019]

Kirkup A (2018) ‘General Data Protection Regulations (GDPR)’, Institution of Civil Engineers (ICE), last edited 19 January 2018.

Designing Buildings.co.uk Wiki, (2018) ‘General Data Protection Regulations (GDPR)’ [online], last edited 11 May 2017. Further information is available at: www.designingbuildings.co.uk/wiki/Home_and [www.designingbuildings.co.uk/wiki/General_Data_Protection_Regulations_\(GDPR\)](http://www.designingbuildings.co.uk/wiki/General_Data_Protection_Regulations_(GDPR)) [accessed 25 February 2019]

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Further information, advice and guidance on the General Data Protection Regulation (GDPR)

- With new technologies constantly emerging and us finding ourselves moving further into an ever more digital direction, our personal data, how it is used and who has access to it becomes a growing and global concern for all.

The General Data Protection Regulation (GDPR) is the first legislative change in recent years that will address these concerns, with a broad aim to invoke a cultural shift in the way organisations manager personal data.



Source: ICO [n.d.], Posters, stickers and e-learning [online]. Available at: <https://ico.org.uk/for-organisations/resources-and-support/posters-stickers-and-e-learning/> [accessed 25 February 2019]

Other useful Information, Advice and Guidance on Data Protection, GDPR and more can be found at the Information Commissioner's Office (ICO) including:

- Guides to the legislation incl. **Data Protection**; Freedom of information; Electronic communications and marketing; Environmental information; Spatial information; and Re-use of information
- In your sector covers – **Education**; Health; Small business; **Marketing**; Local government; Police, justice and surveillance; Charity; Finance, insurance and credit; Elected reps and political parties; and the media

Resource and support covers -

- **Getting ready for the GDPR checklist** – designed to help you get your house in order, ready for the new legislations. Includes getting to grips with new rights of individuals, handling subject access requests, consent, data breaches, and designating a data protection officer.

Self-assess, training and promote incl. -

- **Data protection self-assessment toolkit,**
- **Posters, stickers and e-learning** (incl. the above)
- **Training videos,**
- **Webinars,**
- **Health sector resources,** and
- **Personal information promise**

Information Commissioner's Office (ICO), *Resource and support* [online]. Available at: <https://ico.org.uk/for-organisations/resources-and-support/> [accessed 25 February 2019]

Related Links:

Information Commissioner's Office [n.d.] 'Advice service for small organisations' [online]. Available at:

<https://ico.org.uk/global/contact-us/advice-service-for-small-organisations/> [accessed 25 February 2019]

Korn N (2018) '**GDPR: What you can do now?**' [online], Naomi Korn Copyright and Compliance blog, 1st April.

Available at: <https://naomikorn.com/blog/> [accessed 25 February 2019]

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Data Protection Act 2018

The Data Protection Act 2018 achieved Royal Assent on 23 May 2018. The Act implements provision relating to GDPR among other things. The Government has **published an overview** of the Act, information on **general processing of personal data**.

The Information Commissioner's Office (ICO) has been **granted new powers** to act swiftly when people's data has been breached and allow her to hold rogue companies to account. This includes being able to:

- Issue fines of up to £17 million or 4 per cent of global turnover for the most serious data breaches

- Demand access to an organisation's premises to carry out 'no notice' inspections without a warrant
- Request a court order to force someone to share information, with the prospect of criminal convictions when this is not followed.

The Government will shortly publish a consultation on exemptions to paying ICO fees to ensure the regulations remain appropriate in the new regime.

Related Links:

GOV.UK, Department for Digital, Culture, Media and Sport, Home Office, The Rt Hon Matt Hancock MP, and The Rt Hon Sajid Javid MP (2018), Guidance: 'Data Protection Act 2018 Overview' [online], Published 25 May 2018. Available at: www.gov.uk/government/publications/data-protection-act-2018-overview [accessed 25 February 2019]

GOV.UK, Department for Digital, Culture, Media and Sport, and Margot James MP (2018), News Story: 'Data laws made fit for the digital age' [online]. Available at: www.gov.uk/government/news/data-laws-made-fit-for-the-digital-age?utm_source=792e6351-26af-4550-abe1-85b07a4a97a5&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 25 February 2019]. **Please note:** Further information is provided earlier in this e-bulletin.

Source: Heritage Update e-Bulletin [online], Issue **No 371**, 1 June 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019]

BBC News, Technology (2018) 'Facebook faces £500,000 fine from UK data watchdog' [online], 11 July 2018. Further information is available at: www.bbc.com/news/technology-44785151 [accessed 25 February 2019].

N.B. From this above-mentioned web-link you can also gain further information about **Privacy; Facebook;** and **Facebook-Cambridge Analytica data scandal**

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Useful online resources

1. Construction Information and Guidance available through the **HSE** -

Within the Health and Safety Executive (HSE) website, there is a wealth of information surrounding Construction.

Lucy's Top Searching Tips

By typing in '**Construction**' within the search engine at the top of the website @ www.hse.gov.uk [accessed 25 February 2019] a vast array of 'subject fields' are identified incl.

Construction: Within the 'Construction' section of the HSE website, there is further information on – new to health and safety; safety topics; health topics; Construction Design and Management; Leadership and worker involvement toolkit; Migrant workers in construction; Worker engagement; current campaigns; Managing health risks (COHME); Construction FAQs; Construction news including news and updates about health and safety in the construction industry & Info net including RSS feeds and Construction e-bulletins to sign up to.

Health and Safety in the Construction Industry - www.hse.gov.uk/construction/

Health and Safety in Construction - www.hse.gov.uk/pubns/books/hsg150.htm

HSE Publications: Free Leaflets – Construction www.hse.gov.uk/pubns/conindex.htm

Construction (Design and Management) Regulations 2015 - www.hse.gov.uk/construction/cdm/2015/index.htm

Statistics – Industries www.hse.gov.uk/STATISTICS/industry/index.htm

Statistics - Construction Industry www.hse.gov.uk/STATISTICS/industry/construction/index.htm

Fatal injury statistics, summary for 2017/18 www.hse.gov.uk/statistics/fatals.htm

Latest quarterly fatal injury figures for 2017/18 www.hse.gov.uk/statistics/fatalquarterly.htm

[N.B. Websites accessed 25 February 2019]

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2. **Revo** – [Retail. Property. Community.](#)

(formerly British Council of Shopping Centres (BCSC))

BCSC (British Council of Shopping Centres) was the professional body for retail property – an authoritative voice for UK retail-led regeneration and for the management of and investment in shopping places. However, BCSC is changing and is now Revo.

Revo supports the people and businesses involved in the diverse world of retail property and placemaking to thrive and prosper – energizing and driving progress for our community. As stated within their new website:

A broader remit – Revo are now embracing all kinds of retail property and all kinds of stakeholders. This diversity makes Revo uniquely placed to champion real improvements and positive change for this sector

Working together – Revo intend to harness the collective experience, as well as the influence and resources of their network to challenge and shape this industry for the future

The influencers – Revo are there to help shape the future of the retail property and placemaking industry. They will be engaging with even more senior figures in key government departments to raise awareness of Revo locally and nationally.

The network – Who you know is just as important as what you know. Revo members have a broad base, with specialisms and experience of all kinds. Revo aim to create more relevant and accessible business and career development opportunities and make sure the industry has the right people, with the right skills.

The benchmark – Revo sets standards, recognizes achievement and sparks ideas. A new educational programme will meet the needs of industry professionals throughout their careers, and there will be a renewed focus on apprenticeships. Revo are also expanding their Awards Programme to better reflect the diversity of the industry.

The trend spotters and thought leaders – Revo intends to stay ahead of the curve, prepared for and embracing the future. They will analyze trends, interpret market data and organize focused working groups and think tanks run by true experts in their fields. They will produce pioneering research and insight papers and establish Revo as the place to come for authoritative commentary.

Having a broad message membership means that the Revo community stay well informed about the large range of issues affecting property owners, developers, investors, asset managers, retailers, consultants, shopping centre managers and public-sector employees and can utilize this network to develop solutions to many of the industry's current challenges.

- **Revo Insights** – Revo conduct innovative research into new trends and are the go-to organization for authoritative commentary and insight on industry and political issues. Revo produce thought-provoking content and engaging communications, making sense of the future of our community. Information contained within incl. Latest research and quarterly retail briefings, Industry reports, Guidance notes, Opinion and Trend Bites. Revo Insights [online]. Available at <https://www.revocommunity.org/insights> [accessed 25 February 2019]
- **Revo Education** – Revo are setting standards, recognizing achievement and sparking ideas. Their new educational programme will meet the needs of industry professionals throughout their careers, and they have a renewed focus on apprenticeships. Revo Education [online]. Available at: www.revocommunity.org/education [accessed 25 February 2019]

Source: British Council of Shopping Centres (BCSC), now **Revo - Retail. Property. Community** [online]. Available at: www.revocommunity.org/ [accessed 25 February 2019]

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3. **The National Building Information Modelling (BIM) Library** -

Source: NBS (2017), *NBS National BIM Library* [online] and available at: www.thenbs.com/services/our-tools/nbs-national-bim-library & NBS homepage [online] and available at: www.thenbs.com/ & NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 25 February 2019] –

Introducing NBS

NBS (trading name of RIBA Enterprises Ltd, and wholly owned by the Royal Institute of British Architects (RIBA)) is committed to offering distinctive, innovative specification and information solutions to construction industry professionals. They have produced specification for over 40 years, including the recognised national standard specification system for the UK. Their NBS specification products cover building construction, engineering services and landscape design. They also produce a range of information products, including The National BIM Library and The Construction Information Services (which UCEM subscribes to).

Lucy's Top Searching Tips

You will note within the toolbar at the top of NBS that there are sections entitled, 'Services', 'Knowledge' and 'Support':

Services – NBS ensure construction industry professionals have access to the right information at the right time in the right way. NBS's specification and collaboration, building product and construction knowledge tools and services enables delivery of outstanding projects in an informed, collaborative and efficient way. NBS services are for – Architecture; Building Services Engineering; Structural Engineering; Landscape Architecture; Small Projects; BIM Projects; For Enterprise; For Local Authorities; and Building Product Manufacturers.

Knowledge – NBS's subject specialists author a wide range of interesting articles that help you make informed decisions and deliver the best projects for your clients

Topic areas include

- Building Information Modelling (BIM),
- Design and Specification,
- Construction Products,
- Contracts and Law,
- Plan of Work and Project Administration,
- Standards and Regulations,
- Sustainability,
- Health and Safety,
- **Additional topics incl.** Classification; Climate change; flooding; Green walls; Heating; IFC; Landscape; PAS 1192-2; Procurement; RIBA Plan of Work; Roofing; Students; Tendering; and Ventilation
- **Construction products incl.** Insulation; Lighting; and Timber
- **Building types incl.** Historic buildings; Museums; and Sports grounds
- **Content type incl.** Book extract; Event preview/review; Publication Index; Surveys; and Video
- **Content series incl.** Ecobuild 2016; Are you BIM ready? The Construction Act – One year after; Climate change adaptation in buildings; and Flood mitigation solutions in buildings
- **NBS Services incl.** NBS BIM toolkit; NBS Building; NBS Create; and NBS National BIM Library
- **NBS Reports incl.** National BIM Report; and NBS National Construction Contracts and Law Survey

N.B. Within each topic area has further information incl. Articles, Reports, **VIDEOS**, Recommended reading and Bibliographies.

Source: NBS (2017),

NBS National BIM Library [online] and available at: www.thenbs.com/services/our-tools/nbs-national-bim-library

& NBS homepage [online] and available at: www.thenbs.com/ ,

& NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 25 February 2019]

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4. **Infabode** – The daily resource for Real Estate professionals and students

The web has become overloaded with information, most of which is spread across thousands of company websites, and therefore accessing this comparable information can be both time consuming and frustrating at times.

Infabode works with a network of content partners, and by having all this information in one place provides a powerful platform for the real estate industry. Each user is then able to customise the platform to select and cater for their specific areas of interest.

Some key facts:

- Content from **400+** Real Estate partners globally
- Over **250,000+** pages of industry information
- Opportunity to connect with over **17,000+** Real Estate professionals

Infabode allows users to choose from the real estate sectors that they are most interested in. The platform connects you with information from the **following markets** (incl. Office; Retail; Investment Vehicles; Residential; Capital Markets and Economics; Industrial; Student Halls; Hotels; Sustainability; Property Technology; Mixed User; Logistics; Accounting; Alternative sectors; Legal; Debt; and Rural.

Please note: To register and access **Infabode**,



For further information, please visit:

PropertyEU TV Channel (2016) 'The Infabode real estate information platform explained – Andrew Baum', YouTube [video]. Available at: www.youtube.com/watch?v=oKPwleWFbXQ [accessed 25 February 2019]

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5. **RICS** (Royal Institution of Chartered Surveyors)

- **RICS (Royal Institution of Chartered Surveyors)** is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction -

RICS are a global professional body promoting and enforcing the highest international standards in the valuation, management and development of land, real estate, construction and infrastructure.

By visiting RICS website, you will gain access to a range of

RICS Useful links @ www.rics.org/uk/ [accessed 25 January 2019] that provides direct links through to information relating to the following topic areas/keywords incl.

• **Environment**, • **Geomatics**, • **Minerals & waste**, • **Planning & development**, • **Rural**, • **Arts & antiques**, • **Commercial property**, • **Dispute resolution**, • **Facilities management**, • **Machinery & assets**, • **Management consultancy**, • **Residential property**, • **Valuation**, • **Building control**, • **Quantity surveying & construction**, • **Project management**, • **Building surveying**, • **BIM**, • **Infrastructure**, • **Measurements**, and • **Party walls**, as well as a video – 'The work that shapes our world | RICS'.

Royal Institution of Chartered Surveyors (2018), RICS UK [online]. Available at: www.rics.org/uk/ [accessed 25 February 2019]

RICS Library Online catalogue – 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at: <http://unicorn.rics.org/uhtbin/cgiirsi.exe/0/0/0/60/69/X> [accessed 25 February 2019]

RICS Library Services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 25 February 2019]

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6. **Chartered Institute of Building (CIOB) Insight** –

CIOB Insight – CIOB’s aim is to advance construction management education and to give access to that knowledge so that it can be shared and added to. CIOB do this in several ways and via the above-mentioned link you can gain access to CIOB views on leading issues within the industry, access to special interest groups and information contained within their library, along with data they create through their membership and beyond.

Sections include:

- **Policy and Public Affairs** – including Consultations, Research, Resources and News&Views. **CIOB Policy & Public Affairs [online]**. Available @ <https://policy.ciob.org/> [accessed 25 February 2019]. Policy latest is cover earlier in the e-bulletin.
- **Ambassadors** and informed about the CIOB ambassador programme
- **Magazines** – including information and access to **Construction Research and Innovation (CRI), The Construction Manager Magazine (CM), and Global Construction Review (GCR)**. CIOB Magazine [online]. Available @ www.ciob.org/media-centre/magazines [accessed 25 February 2019];
- **CIOB Library** offering a collection of construction-related resources
- **Special Interest groups** incl. **Architecture & Surveying; Building Standards & Performance; Conservation, Adaptation & Refurbishment; Contracts & Dispute Resolution; Digital Technologies in Construction; European Projects; Facilities Management; Health & Safety; Innovation & Research Panel; and Time Management**. CIOB, Special Interest [online]. Available @ www.ciob.org/special-interest [accessed 25 February 2019]
- **Research** – The CIOB research section is freely available (**Note:** but its title, source and date of publication must be acknowledged if cited. Any content, including data and analysis, must also be reported accurately and not used in a misleading context). **CIOB Research [online]**. Available @ <https://policy.ciob.org/research/> [accessed 25 February 2019]. Archived research that CIOB has undertaken incl. *The Changing Role of Women in Construction; The Cowboy Builder: A Public Perspective; Innovation in Construction; Occupational Stress in Construction; UK Construction Report on Sustainability; Managing the Risk of Delayed Completion*, and others. **Please note** the CIOB’s latest research is covered earlier in this issue.

Chartered Institute of Building (CIOB), 2018, **Insight** [online]. Available at: www.ciob.org/insight [accessed 25 February 2019]

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7. **Inclusive Design Hub for the Built Environment** -

This Inclusive Design Hub for the Built Environment is a project of The Design Council who champion great design that improves lives and makes things better.

This Hub is a collection of the latest guidance and best practice on inclusive design in the Built Environment and has the following sections that can be searched upon incl.

- **Sectors:** Culture & Leisure; Transport; Education; Housing; Healthcare; Commercial; Heritage; Government; and Retail
- **Scale & Setting:** Urban; Public realm; Neighbourhood; Single Building; and Rural
- **User Journey:** Circulation and navigation; Visitor facilities; Entry and Exit; Arrival; Pre-arrival and Information

- **Resource Type:** Guidance and Interpretation; Technical resources; Case studies and good practice; and Regulation and legislation
- **Inclusion Type:** Physical inclusion; Visual inclusion; Cognitive inclusion; Social inclusion; Auditory inclusion; Demographic inclusion
- **Development phase:** Design; Management and Maintenance; Planning; Consultation and Engagement; Construction and Inception and definition.

Further information and to search upon the **Inclusive Design Hub**, please visit **The Design Council** [online]. Available at www.designcouncil.org.uk [accessed 25 February 2019] and select **Projects** and **Inclusive Design Hub for the Built Environment** [online]. Available at: www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment [accessed 25 February 2019] and click on 'Search the hub'

Source: The Construction Information Service (CIS) - *Briefing (UK – November 2014)* [online]

Please note: CIS can be accessed through the **Athens gateway** <http://www.openathens.net/> and by selecting 'IHS Information Services (incl. the Construction Information Service (CIS))'. The Briefing can be downloaded from the CIS homepage. [Back to top](#)

8. Building Research Establishment (BRE)

BRE are an innovative group of researchers, scientists, engineers and technicians who share a common goal – to make the built environment better for all.

Through the BRE Group companies BRE and BRE Global, they generate new knowledge through independent research. This is used to create the products, standards and qualifications that help to ensure buildings, homes and communities are safe, efficient, productive, sustainable and enjoyable places to be. BRE customers use their expertise and services to deliver their social, environmental and economic goals.

Useful web links provide useful information resources incl.

- **News and Events** [online] and available @ <https://bregroup.com/news> [accessed 25 February 2019]
- **BRE Services** incl. Advisory, Conferences, Research, Testing, Certification and listing, Expert witness, Standards, and Training [online]. Available at: <https://bregroup.com/services/> [accessed 25 February 2019]
- **BRE Expertise** incl. BIM, Fire, Resilience, Security, Energy, Innovation, Safety, and Sustainability [online]. Available at: <https://bregroup.com/expertise/> [accessed 25 February 2019]
- **BRE Sectors** Incl. Property, Product manufacturing, and Construction [online]. Available at: <https://bregroup.com/sectors/> [accessed 25 February 2019]
- **BRE Products** incl. BREEAM, BRE Academy, Digital tools, CEEQUAL, Home Quality Mark, LPCB, SABRE, and SmartSite [online]. Available at: <https://bregroup.com/products/> [accessed 25 February 2019]
- **BRE Networks** incl. APRES, BRE Innovation Parks Network, BRE Women's Network, Centre for Smart Homes & Buildings, Commercial Partnerships, Constructing Excellence, and UK Green Building Council [online]. Available at: <https://bregroup.com/networks/> [accessed 25 February 2019]

Building Research Establishment (BRE) [online] and available @ <https://bregroup.com/> [accessed 25 February 2019]

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9. Global Research Gateway: CBRE's online resource for Real Estate Research -

- CBRE, the global leader in real estate services and investment.

Every day, in markets around the globe, CBRE apply insight, experience and resources to help clients make informed real estate decisions. Every year, they complete thousands of successful assignments across a wide range of markets and [real estate service lines](#).

CBRE's deep experience and expertise allows them to paint a precise picture of global commercial real estate conditions and trends. It allows them to recognize opportunities quickly and take advantage of them.

CBRE's mission is to deliver consistently superior results by:

- Always putting the client first
- Bringing the best talent to every assignment
- Collaborating across markets and service lines
- Capitalizing on the depth of our market information and insight

CBRE has a **Global Research Gateway**: Your source for Real Estate Research [online]. Available at <https://researchgateway.cbre.com/> [accessed 25 February 2019]

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10. **TRUSTDR (Trust in Digital Repositories)** –

TRUSTDR (Trust in Digital Repositories) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit.

It should be especially used for those wanting to provide a sound legal foundation for an institutional open education policy. It did this by critically examining the cultural, educational and technical factors involved and produced practical solutions and analyses. It took a very broad approach to the subject and examined issues of professional and organisational change in relation to the use of technology in education. All the outputs are freely available under a Creative Commons attribution **CC-BY licence**. You can access the project web site via the TRUSTDR (Trust in Digital Repositories) website [online]. Available at: <http://trustdr.digitalinsite.co.uk/> [accessed 25 February 2019]

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11. **The CIT-EA Project Creating Innovative Technology – Enhanced Assessments)** –

The CIT-EA Project Creating Innovative Technology – Enhanced Assessments) – a research project that explored ways to increase the amount of assessment in Further and Higher Education using technology.

Its ‘signature’ approach was to use systems theory to explore and identify the barriers to the adoption of e-assessment and identify workable solutions – it also had a focus on using learning design concepts especially the use of ‘design patterns’ in the form of assessment re-design templates. All the outputs are freely available under a Creative Commons attribution **CC-BY licence**. You can find the project website via the CIT-EA Project Creating Innovative Technology – Enhanced Assessments website [online]. Available at:

<http://citea.digitalinsite.co.uk/> [accessed 25 February 2019]

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12. **COPAC*** –

COPAC* exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search you can discover the holdings of the UK’s national libraries (including the British Library), many University libraries, and specialist libraries [online]. Further information is available at www.copac.ac.uk [accessed 25 February 2019]

Researchers and educators use COPAC* to save time in their research, to quickly and easily discover and locate resources, to check documents details, review materials etc. Information professional trust COPAC* to give them access to a unique pool of high-quality bibliographic information.

COPAC* is a Joint Information Systems Committee (JISC) service, provided for the UK community based on an agreement with Research Libraries UK (RLUK). The service uses records supplied by RLUK members, as well as an increasing range of specialist libraries with collections of national research interest.

COPAC* is a registered trademark of The University of Manchester.

NOTE: Institution of Civil Engineers (ICE) Library catalogue has been added to COPAC* – COPAC* has loaded the catalogue of the Institution of Civil Engineers Library onto COPAC*. See the COPAC* blog [online] and available

@ <http://blog.copac.ac.uk/2015/04/13/institution-of-civil-engineers-library-catalogue-loaded/> [accessed 25 February 2019] for full details.

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Also, please note:

Top 20 Urban Planning Websites

- This year, marking the sixth year of The Global Grid's annual ranking, six new websites joined the ranks of their Top 20 Urban Planning Website selection. Last year's top-ranking website are, however, holding tight to their positions with only two new additions in the top ten. This year's list emphasizes the central role of urban policy.

Essbai S (2017) 'Top 20 Urban Planning Websites of 2017' [online], The Global Grid – urbanist news. local views. Available at <https://theglobalgrid.org/the-global-grid-top-20-urban-planning-websites-2017/> [accessed 25 February 2019]

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UCEM e-Library portrait

UCEM e-Library portrait @ <https://www.ucem.ac.uk/supported-online-learning/elibrary/> [accessed 25 February 2019]



As of **February 2019**, a search of 'construction' on the internet produces over **4,080,000,000 items**. How long will it take you to find exactly what you are looking for?

The UCEM e-Library (accessed through the VLE) is a comprehensive and valuable online resource, enabling staff and students to access a wealth of up-to-date, credible and subject-specific information around the clock. The e-Library ensures that staff and students are kept informed of current and best practice from within construction and real estate and kept abreast of the latest developments within the profession.


The UCEM e-Library can:

- provide a first point of call for staff and students to access digital resources
- add value and depth to work
- contribute to personal and professional development

What resources are available?

Access to

- Up-to-date information and online searchable databases from key educational and industry-specific sources; useful weblinks; e-books and e-journals,
- Research and reference material to assist and underpin written work,
- Current awareness on existing issues and trends surrounding Construction and Real Estate.

You have access to  [Click here](#) to start searching the database NOW

NOTE: For the above link to work you must ensure that you are logged-in to **Athens - Section 2 of the VLE e-Library**

People have access to so much information these days and particularly through the Internet. **“Demonstrating to both UCEM staff and students what their e-Library can do for them remains a key priority.”** Lucy Roper, UCEM Information Governance Manager

Some key facts and figures about the UCEM e-Library

Access to -

- over 2000 Full-Text Journal Titles (accessed through EBSCO Business Source premier, Emerald Insight, Taylor&Francis Online, IngentaConnect, as well as specialist Law Journals via Westlaw)
- over 1000 useful web links to e-Resources
- online searchable databases from 15 key industry specific & educational sources (including the RICS - Royal Institution of Chartered Surveyors online published material via ISURV and their Building Cost Information Service (BCIS), Building Services Research and Information Association (BSRIA), and industry specific journal, *Estates Gazette*.)
- A discovery service to allow students and staff to search all the UCEM Library services and e-Resources in one place
- Athens gateway – access and identity management system to allow single-sign on to Library subscription serviced
- a direct link to UCEM’s entire library of study material catalogue
- UCEM Published Research and back issues of this copy of *Knowledge Foundations* and formerly eBulletin
- Access to UCEM Research and Occasional Paper series, Reports and Publications, and Archive
- Reading lists, bibliographies and literature reviews incl. Abstracts and indexes of external databases
- Further Information, Advice and Guidance notes, discussion documents and fact sheets

UCEM e-Library enquiry service –

UCEM are constantly striving to improve the online resources available to support learning and development. Therefore, having listened and responded to requests, the e-Library has now set up an enquiry service so that library queries can be put direct to an information specialist. So why not email today at library@ucem.ac.uk ?

Or access the e-library online. Available @ www.ucem.ac.uk [accessed 25 February 2019]

and click on ‘**Access your VLE**’ & visit the ‘**e-Library**’

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Student career service –

The **UCEM Careers Service** is part of the Student Outreach Team and Student Services. They offer careers Information, Advice and Guidance (IAG) to potential, current and past students. The service is confidential, non-judgemental and impartial.

Reasons to use the UCEM Careers Service –

1. It’s industry specific and on trend. UCEM undertakes research and talks to employers all the time to keep up-to-date.

2. It's tailor-made; you may need a straight forward answer to a quick question or some in depth careers coaching. This is not "one size fits all".
3. UCEM runs a great online **Job Shop** with a wide range of opportunities from two-week placements to overseas roles. Employers really want to connect with you and often come to UCEM first with entry level jobs. Why not [click here](#) and **add us to your favourites?**
4. UCEM offers a CV review service to help you produce this all-important marketing tool.
5. This service is free, confidential and recognised by MATRIX, the industry Quality Standard. It can challenge the way you see yourself and maybe your perception of Career Advice too.

On offer

- Advice by email, phone or Skype; Career planning tools; Interview practice; Labour Marketing Information; Job search skills; Country specific advice for international students; and
- Specialist resources on the VLE

Popular topics include, but aren't limited to those below

- Industry information such as potential career paths and labour market data
- CV reviews, job applications and interview advice
- Job search strategies
- Career Planning including professional accreditation
- Finding Work Experience

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Related Links:

Open Doors - Get into Construction

- **Visit a construction site (Monday 18th – Saturday 23rd March 2019) in the UK and inspire your imagination**

A unique chance for you to see behind the scenes at major 'live' construction sites, offices, factories and training centres across England, Scotland and Wales.

Discover how the buildings and structures in your community are constructed and find out about the diverse range of skills and professions needed on site.

Be inspired by this growing industry and learn how to start your career in construction.

The most recent Open Doors event saw over 5,200 bookings across more than 275 construction sites in England, Scotland and Wales.

OpenDoors [online]. Available at: <https://opendoors.construction/> [accessed 25 February 2019]

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GoConstruct.org website

In September 2015 the Construction Industry Training Board (CITB) launched a response on behalf of many of the industry's training and professional bodies to the persistent call over the last year or more for a single portal – namely **GoConstruct.org** to help schoolchildren and others to explore job and career options within the construction sector, ranging from professional and managerial to trade and supervisory occupations. Hopefully it will cover every role you can think of? The CITB and Construction Excellence website have recommended everyone/readers to take a look at www.goconstruct.org, pass on the link to those who can use it – and also provide feedback.

Ward, D., 17 September 2015, Constructing Excellence website [online]. Further information is available at: <http://constructingexcellence.org.uk/new-careers-website-launched-goconstruct-org-2/> [accessed 25 February 2019]

Or follow them on their Social Media sites. Access via the website **goconstruct.org**



@GoConstructUK or



Related Link:

A career in construction gives you the chance to be part of something BIG! goconstruct.org [accessed 25 February 2019]

[#ElizabethLine](#)

TARGETjobs

All TARGETjob graduate careers guides and directories are available for you to view online and download for future reference incl. **Property 2019** and **Engineering 2019**.

TARGETjobs (2018) 'Graduate careers guides and directories from TARGETjobs' [online]. Available at: <https://targetjobs.co.uk/careers-products> [accessed 25 February 2019]

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House Building Careers

Part of Home Builders Federation (HBF), here you will be able to learn about the home building industry and how it benefits you, your community and the country as a whole [online]. Further information available at:

<http://housebuildingcareers.org.uk/> [accessed 25 February 2019]

RICS Careers

- The mission of Future Talent at RICS is to inspire and attract an inclusive, talented profession. As with UCEM it is vital that we attract the right talent, from a diverse range of backgrounds, provide and equip them with the right skills to ensure our profession is fit for the future.

RICS Future Talent runs initiatives and outreach programmes to students within schools, colleges and universities, representing and leading groups on careers, and support employers of all sizes and sectors to recruit the next generation of professionals.

- **Make a difference** – see projects you've worked on and know you achieved that
- **Good salary** – the average salary (see publication date) for a chartered surveyor is £60,000
- **Variety** – surveying is not an ordinary 9-5 desk job
- **Travel the world** – RICS is recognised globally so you can have the opportunity to travel the world
- **Accessible** – with many ways to qualify as a surveyor, it's a professional career that is open to everyone.
- **Career opportunities** – surveying skills are in demand, so you can develop and grow the career you want.

With the RICS Careers designated webpages you can find the following information incl.

- **Explore surveying?**
- **How to become a surveyor,**

and further advice for employers, those current studying, RICS Matrics, apprenticeships and a video entitled – 'The work that shapes our world | RICS'

Royal Institution of Chartered Surveyors (RICS), 2018, 'RICS Careers' [RICS website > Home > Careers] RICS [online]. Available at: www.rics.org/uk/careers/ [accessed 25 February 2019]

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Building a better you

- Property Elite's sole aim is to build better property professionals – supporting your career every step of the way, whether you are completing a RICS accredited degree course, your RICS APC or simply seeking engaging CPD.

Property Elite provides training and Continuing Professional Developments (CPD) services for property professionals, including students, APC candidates and corporate clients.

Their **Hot Topic Highlight blog** posts will arm you with the information on the hottest topics – ready to tackle an important client meeting or begin revising for your RICS APC final assessment.

The latest blog focuses on

Hot Topic Highlight – [Residential Agency Update](#) – February 2019

This week Property Elite are looking at three key proposals which will affect residential agency during 2019.

Lucy Top Tip – If you are an RICS APC candidate, make sure you are aware of these and be sure to check out Property Elite's APC Support services, including submission reviews, question packs, revision quizzes and e-mock interviews. Further information is provided via the link below.

Residential Agency Update (February 2019)

What's new?

- **Government commitment to introduce 5 yearly mandatory electrical safety checks**
- **Proposals to require residential landlords to join a redress scheme**
- **Proposals for reservation agreements to be brought into the transactional agency process**

1. Electrical safety checks

At present, landlords have the following responsibilities in relation to electrical safety:

- Electrical installations in rented property must be safe when tenants move in and kept in a safe condition during the duration of any tenancy agreement
- 5 yearly periodic inspection of electrical installations are required for Houses in Multiple Occupation (HMOs).
- Electrical appliances must be safe and have at least the CE marking

However, at present, periodic inspections of electrical installations are not required for rented property which does not fall under the definition of a HMO.

Due to the increasing size of the private rented sector, which now accounts for roughly 20% of all households, the Government carried out consultation on electrical safety standards. The outcome of this will be introduction of 5 yearly mandatory checks 'as soon as parliamentary time allows', for all private rented property. Landlords will also need to ensure that the inspector or tester they instruct to carry out the checks are competent to do so, e.g. by being part of a competent person scheme or signing a checklist to certify their competence. A landlord who is breach of the proposed rules may be liable for a fine of up to £30,000 or a banning order for repeat or serious offences.

2. Redress schemes

In January 2019, the Secretary of State for Housing, Communities and Local Government announced proposals to require landlords of private rented property to join a redress scheme. At present, only letting and property management agents are required to be part of a redress scheme. The proposed redress mechanism will be through the Housing Complaints Resolution Service. This is proposed to provide recourse for both private tenants and homeowners. If a landlord does not comply with the proposed requirements, they may face a £5,000 fine.

3. Reservation agreements

The Government is currently considering ways to speed up and improve the process of buying and selling residential property. A key aim is to try to reduce the amount of sales that fall through during the exchange and completion process. The primary way they are looking to do this is through a 'model' two-page reservation agreement. This follows a Department for Business, Innovation and Skills survey which found that 50% of buyers and 70% of sellers would be happy to enter a reservation agreement to reduce the risk of a sale falling through. The Government are looking at the specifics of what a reservation agreement might include, for example the amount of the reservation fee and in what circumstances a consumer may be able to pull out without paying a penalty, e.g. suffering a bereavement or being made redundant.

Formal proposals are expected to be published later in 2019.

N.B. nothing in this article constitutes legal advice.

Source: Lemen-Hogarth J (2019) *Hot Topic Highlight – Residential Agency Update – February 2019* [online], Property Elite LLP. Available at:

<https://property-elite.co.uk/blog/hot-topic-highlight-residential-agency-update-february-2019> [accessed 25 February 2019]

Note: Jen Lemen-Hogarth is an Associate Tutor - UCEM and Partner - Property Elite

You can also download this blog in audio format and listen whilst on the move. When you're done, you can request further information and a free CPD certificate.

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UCEM's Sustainability Hub:

The Routledge Sustainability Hub

The Routledge Sustainability Hub is an innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability.

Further information available at: www.routledgetextbooks.com/textbooks/sustainability [accessed 25 February 2019]

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FreeBook: Pathways to Sustainable Agriculture

Produced in Partnership with the ESRC STEPS Center

This FreeBook highlights some of the major findings that have emerged over the last decade of the STEPS Centre's research on sustainable agriculture.

It draws on four books which address three themes central to understanding how pathways emerge in agriculture, and how sustainability, is or indeed is not, generated. The three themes are: framing (how we understand agriculture and its roles in development), practice (how agriculture and agricultural research is carried out, and by whom) and governance (how agriculture is regulated and controlled).

[Click here](#) to gain free access to receive your FreeBook. [accessed 25 February 2019]

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Sustainable Building Training Guide Launched

Produced by the Green Construction Board and the Construction Leadership Council this new guide has been endorsed by leading construction businesses and industry federations, training bodies, and professional institutions.

This accessible guide explains the principles of sustainable building in terms that are useful for the development of content for standards, qualifications, apprenticeships and training courses. Its purpose is to help the training sector to embed sustainability within all mainstream learning, including the national curriculum, apprenticeships, degrees and professional qualifications. It is therefore a key reference for anyone involved in construction training.

The publication, use, and uptake of this guide is a key recommendation of the "Each Home Counts" Reviews. Its adoption and use by the training sector will help us to address the so-called 'performance gap' and will ultimately aid the transition to an energy efficient and low carbon-built environment.

You can download a copy of the publication via the hyperlink provided below.

CIC - Construction Industry Council (2017), *Sustainable Building Training Guide Launched* [online]. Available at: <http://cic.org.uk/news/article.php?s=2017-02-28-sustainable-building-training-guide-launched> [accessed 25 February 2019]

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BREEAM Wiki (Part of Designing Buildings Wiki)

The BREEAM Wiki is a centralized library of guidance and best practice created not by the Building Research Establishment (BRE) but by users and other key stakeholders of BREEAM schemes and tools, including HQM and CEEQUAL. The wiki aims to:

- Disseminate best practice and lessons learnt
- Make it very easy to share

Recently added articles incl.

- BREEAM and RIBA stages
- BREEAM UK New Construction 2018 changes summary
- BREEAM Sustainable transport measures
- BREEAM Online information map

Source: BREEAM Wiki: Part of Designing Buildings.co.uk Wiki (2018) [online]. Further information is available at: https://www.designingbuildings.co.uk/wiki/BREEAM_Wiki [accessed 25 February 2019]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wiki are increasingly being used by people in the academic community, as an easy source of information about anything and everything. However, citation of Wikipedia may not be considered acceptable, because Wikipedia is not a creditable source.

It is important to note that whilst Wikipedia may be one of the Web's most popular reference sites, it is not classed as a credible resource because anyone can be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.
 - An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journal articles and other appropriate and credible resources. What you find in these other sources of information will be more detailed, more precise, and more carefully reasoned than the summary you found in an encyclopaedia. The sources you reference/cite in your work will therefore be these more detailed sources you have used.
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BBC Plastics Watch Resources

- Bringing together the best content from around the BBC to help you discover everything you want to know about plastics.

Areas covered within the BBC Plastics Watch Resource area incl.

- **Beach Cleans and Volunteering** – #2minutebeachclean; Find, join or start a free refill scheme; Marine Conservation Society; National Trust: Pitch in with a Beach Clean; Surfers Against Sewage; Thames 21: Volunteer for river clean ups; and The Wildlife Trusts: Volunteer,
- **Plastics Free Living** – Friends of the Earth: Can you go plastics free?; Marine Conservation Society: Can you go a month without plastic?; A Plastic Planet: A plastic-free aisle; and Surfers Against Sewage: Plastic free communities,
- **Changing the Plastic Based Economy** – New Plastics Economy; and The Plastics Pact,
- **Research** – *UN Environment: Single-use plastics: A roadmap for sustainability*; *UN Environment: The state of plastics: World environment day outlook 2018*; and *UN Environment: Exploring the potential for adopting alternative materials to reduce marine plastic litter*

BBC (2018) – Plastics Watch Resources [online]. Available at: www.bbc.co.uk/programmes/articles/453T5Gp3FP6kmMrJBRS09d/resources [accessed 25 February 2019]

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Building Research Establishment (BRE) -

Sustainability: [Practical guidance and support for delivering genuine sustainability benefits](#)

- Greater sustainability and its many benefits can be achieved for all buildings, homes, organisations and communities.

Internationally recognised as the developers of sustainability standards codes and methodologies (such as BREEAM) for buildings, homes, communities and infrastructure, the BRE expert team offers a comprehensive range of sustainability services. BRE can also help (further information provided via the below mentioned source) to reduce the environmental impact of construction processes, materials and operations, and provide leading edge information and advice on all aspects of the sustainability of:

- Sustainable construction of buildings
- Communities
- Infrastructure
- Sustainable organisations
- Materials, products and services
- Waste management
- Energy management services
- Training and publications

This and further information are available at

Source: **BRE / Sustainability** [online] and available @ <https://bregroup.com/expertise/sustainability/> [accessed 25 February 2019]

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QSAND and the Sustainable Development Goals



Source: **Designing Buildings.co.uk Wiki**, (2018) 'Forgetting the big picture when considering sustainability' [online], last edited 27 April 2018. Further information is available at: www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals [accessed 25 February 2019]

- The UN Sustainable Development Agenda, adopted by world leaders in 2015, maps out a 15-year plan to fight inequality, end poverty, and tackle climate change challenges. The 17 goals (as identified within the above figure) are designed to build upon the Millennium Development Goals and go further towards ensuring sustainability is at the forefront of human development up until 2030.

From Building Research Establishment (BRE), sustainability and resilience are key focus areas. QSAND (Quantifying Sustainability in the Aftermath of Natural Disasters) is a self-assessment tool to promote sustainable approaches to relief, recovery and reconstruction after a natural disaster. Through QSAND we are making a contribution to aid the achievement of several of these goals in disaster-affected communities around the globe.

Central to the thinking behind the QSAND tool is that sustainable approaches to reconstruction can help limit the impact disasters have in the short, medium and long term and improve the resilience of local communities to future disasters as they occur. It is this holistic approach and a strong focus on the development of local skills and capabilities that demonstrates QSAND's overarching support for the Sustainable Development Goals (SDGs). In addition to its focus on sustainable cities and communities (SDG 11), QSAND supports the goals by promoting clean and renewable energy solutions (SDG 7), responsible consumption (SDG 12), and clean water and sanitation (SDG 6) alongside many other areas.

Consideration of the natural environment alongside the needs of people globally is important in measuring success in the pursuit of the SDGs. It can offer a form of protective barrier against disasters. QSAND does this by providing a framework which can be used to support protection of local ecology, balancing this against the maintenance of livelihoods and economic prosperity. Often, protecting natural resources can also support livelihoods, further reducing a community's vulnerability to disasters.

Whilst QSAND is designed as a tool to be used in response to a specific disaster to support the recovery process, its sustainability scope is wider than this. By considering the medium to longer-term impacts of decisions made in the early days of disaster recovery, it helps provide a framework that can help avoid, limit or mitigate further harm to the natural environment that can occur during reconstruction.

QSAND is proud to support the aims laid out in the Sustainable Development Goals, and support efforts to contribute to the global movement towards a sustainable, resilient, and prosperous future.

Source: **Designing Buildings.co.uk Wiki**, (2019) 'QSAND and the Sustainable Development Goals' [online], last edited 10 January 2019. Further information is available at:

www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals [accessed 25 February 2019]

Related Links:

What to expect of sustainability professionals

Designing Buildings.co.uk Wiki, (2018) 'What to expect of sustainability professionals' [online], last edited 16 November 2017. Further information is available at:

www.designingbuildings.co.uk/wiki/What_to_expect_of_sustainability_professionals [accessed 25 February 2019]

Further information and related articles via the above mentioned link incl.

- **Articles by ICE (Institution of Civil Engineers) on Designing Buildings Wiki,**
- **Consultant team for design and construction,**
- **Design team meeting,**
- **Navigating beyond sustainability buzzwords,**
- **Sustainability,**
- **Sustainable materials, and**
- **Sustainable procurement.**

Source: **Designing Buildings.co.uk Wiki**, (2018) 'Forgetting the big picture when considering sustainability' [online], last edited 27 April 2018. Further information is available at:

[www.designingbuildings.co.uk/wiki/Forgetting the big picture when considering sustainability](http://www.designingbuildings.co.uk/wiki/Forgetting_the_big_picture_when_considering_sustainability) [accessed 25 February 2019]

Sustainability in building design and construction

Source: **Designing Buildings.co.uk Wiki**, (2017) 'Sustainability in building design and construction' [online], last edited 30 June 2017. Further information is available at:

[www.designingbuildings.co.uk/wiki/Sustainability in building design and construction](http://www.designingbuildings.co.uk/wiki/Sustainability_in_building_design_and_construction) [accessed 25 February 2019]

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openDemocracy

openDemocracy is an independent global media platform publishing up to 60 articles a week and attracting over 8 million visits per year. Through reporting and analysis of social and political issues, openDemocracy seeks to challenge power and encourage democratic debate across the world. With human rights as their central guiding focus, they ask tough questions about freedom, justice and democracy.

openDemocracy [online]. Available at: www.opendemocracy.net/ [accessed 25 February 2019]

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Sustainability in Facilities Management (FM) – A useful online tool and resource pool

The Sustainability in Facilities Management (Sustainability in FM) web site provides a practical, easy to use first point of contact for Facilities Managers where best practice case studies on sustainability topics can be found. All case studies are vetted to provide relevance to Facilities Management, practically and absence of marketing spin. The web site also provides Facilities Managers with background information on the most common sustainability issues and links out to recommend centres of excellence.

“Knowledge Transfer Partnerships” (KTP) are a Technology Strategy Board programme set up to improve competitiveness and productivity through the better use of knowledge, technology and skills. The Sustainability in FM research project is a partnership between the British Institute of Facilities Management (BIFM) and the University of Reading under this part government funded scheme.

The aim of the project is to develop practical tools for the FM professional so that they can improve the implementation and management of sustainable practices in the working environment.

Please note: To register on *Sustainability in FM* is free but to access the full content of the site registration is required.

Sustainability in Facilities Management (FM) – A useful online tool and resource pool [online] and available at: <http://www.bifm.org.uk/bifm/knowledge/sustainabilityinfm> [accessed 25 February 2019]

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UCEM's commitment to the sustainability agenda –

beesustainable BUILT • ENVIRONMENT • EDUCATION

UCEM's strategic ambition is to develop and implement genuine sustainability credentials as a socially responsible organisation by;

- Ensuring our students leave their study with UCEM conversant in best practice in nurturing a sustainable built environment
- Making sustainability a central focus for UCEM at organisational, departmental and individual levels, and
- Establishing UCEM as a leader in the sustainability agenda through actively influencing industry and conducting research in our sector

UCEM, February 2015, *thirty-seven twenty-seven, Principal's Update*, Issue 13, Reading: UCEM

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Useful web-links

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[N](#) - [O](#) - [P](#) - [Q](#) - [R](#) - [S](#) - [T](#) - [U](#) - [V](#) - [W](#) - [X](#) - [Y](#) - [Z](#)

A

American Society of Civil Engineers (ASCE) Civil Engineering database www.asce.org/ [accessed 25 February 2019] provides free access to over 80 thousand abstracts taken from ASCE publications since 1973.

Association of Researchers in Construction Management (ARCOM) brings together all those interested in construction management research. It aims to further the advancement of knowledge in all aspects of management in construction by support education, dissemination and research [online]. Further information available at: www.arcom.ac.uk/index.php [accessed 25 February 2019]

ARCOM Abstracts database – contains open access of every ARCOM conference paper since 1997 and is now a major resource for all active researchers [online]. Available at: www.arcom.ac.uk/abstracts.php [accessed 22 February 2019]. **ARCOM Newsletters** - contains the latest news from the industry [online]. Available at: www.arcom.ac.uk/newsletters.php [accessed 25 February 2019]

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BAILLI Case Law Search (British and Irish Legal Information Institute) [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 25 February 2019]

BBC Education [online]. Further information available at: www.bbc.co.uk/news/education/ [accessed 25 February 2019]

BBC Search [online]. Further information available at: www.bbc.co.uk/search/ [accessed 25 February 2019]

BCSC (British Council of Shopping Centres) was the professional body and authoritative voice for retail-led regeneration and for the management of and investment in shopping places [online].

NOTE: BCSC has changed and is now **REVO – Retail. Property. Community. See REVO below.** Further information available at: www.revocommunity.org/ [accessed 25 February 2019]

BCSC Research + Education Document listing – Now REVO [online] and available at: www.revocommunity.org/documents/list [accessed 25 February 2019]

BIFM (British Institute of Facilities Management) – The BIFM is now **IWFM – Institute of Workplace and Facilities Management.** Please refer to IWFM below.

BIM Task Group – The Building Information Modelling (BIM) Task Group support and develop the objectives of the Government Construction Strategy and the requirement to strengthen the public sector’s capability in BIM implementation [online]. **N.B.** This group and programme are now part of the **Centre for Digital Built Britain (CDBB)** [online]. Further information is available at: www.cdbb.cam.ac.uk/AboutDBB/FAQs [accessed 25 February 2019]. Please refer to question 9 – What is the Digital Built Britain Programme? specifically.

BIMForum – The BIMForum’s mission is to facilitate and accelerate the adoption of building information modelling (BIM) in the AEC (Architecture, Engineering and Construction) industry. Further information is available via the BIMForum Website [online] and @ <http://bimforum.org> [accessed 25 February 2019]

BOMA International (Building Owners and Managers Association International) – a federation of 91 BOMA U.S. associations and 17 international affiliates. Founded in 1907, BOMA’s mission is to advance a vibrant commercial real estate industry through advocacy, influence and knowledge. BOMA Research and Resources [online] and available at: www.boma.org/research/Pages/find-a-resource.aspx accessed 25 February 2019]

British Property Federation (BPF) – The British Property Federation is a membership organisation devoted to representing the interests of all those involved in real estate ownership and investment [online]. Further information available at: www.bpf.org.uk/en/index.php [accessed 25 February 2019]

BRE (Building Research Establishment) is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries [online]. Further information available at: <https://bregroup.com/about-us/> [accessed 25 February 2019]

BRE A-Z of BRE Services (from Accreditation to Zero Carbon) [online]. Further information is available at: www.bre.co.uk/atoz.jsp [accessed 25 February 2019]

BRE Case Studies [online]. Further information is available at: www.bre.co.uk/podpage.jsp?id=1744 [accessed 25 February 2019]

BSRIA (Building Services Research and Information Association) is a test, instrumentation, research and consultancy organisation, providing specialist services in construction and building services. Available at: www.bsria.co.uk/ [accessed 25 February 2019]

Builder and engineer [online]. Available at: www.builderandengineer.co.uk/ [accessed 6 November 2017] – Free access to articles from Builder and Engineer magazine and locate information on current projects as well as company profiles, products and industry news.

Building Conservation. com [online] – Information resources for conservation, restoration and repairs. Available at: www.buildingconservation.com/ and Articles directory by subject @ www.buildingconservation.com/articles/articles.htm [accessed 25 February 2019]

Building Design Directory – provides construction and environmental products / services / information for Architects, Engineers and Facility Managers [online]. Available at: www.buildingdesign.co.uk [accessed 25 February 2019]

Building talks [online]. Available at: www.buildingtalk.com [accessed 25 February 2019] *Building Talks* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

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CABER (Centre for Architecture and Built Environment Research) seeks to develop innovative approaches, procedures, technologies and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric and the environments they create. **Note:** CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online] and available @ www1.uwe.ac.uk/et/research/caber.aspx [accessed 25 February 2019]

CBA (Council for British Archaeology) is an independent charity bringing together members, supporters and partners to give archaeology a voice and safeguard it for future generations [online]. Available at: <http://new.archaeologyuk.org/> [accessed 25 February 2019]

CBI (Confederation of British Industry) is the UK's premier business lobbying organisation, providing a voice for employers at a national and international level [online]. Available at: www.cbi.org.uk/ [accessed 25 February 2019]

CBI Construction Section [online]. Available at: www.cbi.org.uk/business-issues/construction/ [accessed 25 February 2019]

CBRE (Commercial Real Estate Services) is the world's largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally [online]. Available at: www.cbre.com/EN/Pages/Home.aspx [accessed 25 February 2019]

CDBB (Centre for Digital Built Britain) is a partnership between the Department of Business, Energy & Industrial Strategy and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain and use our social and economic infrastructure. CDBB [online]. Available at: www.cdbb.cam.ac.uk/AboutDBB [accessed 25 February 2019]

CEBE (The Centre for Education in the Built Environment) - As part of the Subject Network of the Higher Education Academy (HEA) [online] and available at: www.heacademy.ac.uk/ [accessed 25 February 2019] the Centre provides discipline based support to enhance the quality of learning and teaching in the UK Higher Education CEBE, **Built Environment community**.

CEM (College of Estate Management) – See **UCEM (University College of Estate Management)**

CIC (Construction Industry Council) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry [online] and available at: <http://cic.org.uk/> [accessed 25 February 2019]

CIOB (Chartered Institute of Building) The Chartered Institute of Building is the international voice of the building professional, representing an unequalled body of knowledge concerning the management of the total building process [online]. Available at: www.ciob.org.uk/ [accessed 25 February 2019]

CIOB Insight Incl. Library and Information Services [online]. Available at: www.ciob.org.uk/library [accessed 25 February 2019]

CIOB – Construction Manager [online]. Available at: www.constructionmanagermagazine.com/ [accessed 25 February 2019]

CIOB – Global Construction Review [online]. Available at: www.globalconstructionreview.com/ [accessed 25 February 2019]

CIOB – Policy and Public Affairs portal [online]. Available at: <http://policy.ciob.org/> [accessed 25 February 2019]

CIRIA – The Construction Industry Research and Information Association and CIRIA Resources [online]. Further information is available at: www.ciria.org/default.aspx [accessed 25 February 2019]

CITB – Construction Industry Training Board is the training board for the construction industry and partner in Construction Skills, the Sector Skills Council [online]. Available at: www.citb.co.uk/ [accessed 25 February 2019]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 25 February 2019] is a collection of images of buildings and cities from around the world aimed at students, researchers and educators.

CLH - Community-Led Housing Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 25 February 2019]. This Toolkit provides a wealth of technical and non-technical information on a broad range of issues relevant to CLH. There are five Toolboxes, covering (i) Housing (ii) Communities (iii) Legal (iv) Planning and (v) Finance.

Constructing Excellence (delivered with bre) is a platform for industry improvement to deliver excellence through clients, industry and users through collaborative working. Resources include publications, tools and newsletter [online]. Available at: <http://constructingexcellence.org.uk/> [accessed 25 February 2019]

Construction Enquirer – The best-read news website in construction [online]. Available at www.constructionenquirer.com [accessed 25 February 2019]

The **Construction Index** [online] provides a wide range of information services for the UK construction industry, incl. search engine of construction companies, daily construction news, market data, email newspaper letter, and Case Law analysis and legal commentary. Further information is available at: www.theconstructionindex.co.uk/ [accessed 25 February 2019].

Construction News [online]. Available at www.cnplus.co.uk [accessed 25 February 2019]

Construction Products Association (CPA) represents the UK's manufacturers and distributors of construction products and materials. Further information available at Construction Products Association [online]. Available at: www.constructionproducts.org.uk/ [accessed 25 February 2019]

Contractors World magazines (incl. **Contractors World International** and **Contractors World UK & Ireland**) are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries [online]. Available at: <http://cwmags.com/> [accessed 25 February 2019].

COPAC exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search you can discover the holdings of the UK's national libraries (including the British Library), many University libraries, and specialist libraries [online]. Further information is available at: <http://copac.ac.uk/> [accessed 25 February 2019]

COTAC (Conference on Training in Architectural Conservation) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals and home owners [online]. Available at: <http://ihbconline.co.uk/cotac2/> [accessed 25 February 2019]

COTAC Digital Bibliography [online]. Available at: www.cotac.org.uk/digital_bib/ [accessed 25 February 2019]

CPIC (Construction Project Information Committee), responsible for providing best practice guidance on the content, form and preparation of construction production information, and making sure this best practice is disseminated throughout the UK construction industry [online]. Available at: www.cpic.org.uk/ [accessed 25 February 2019]

CPRC (Construction and Property Research Centre), University of the West of England (UWE) – the CPRC’s research activity is focused around the three inter-related stages of the built environment life-cycle, namely design, construction and maintenance [online]. Available at: www1.uwe.ac.uk/et/research/cprc.aspx [accessed 25 February 2019]. **Note:** CABER (Centre for Architecture and Built Environment Research) mentioned above incorporates the CPRC.

CPRC, UWE Research Repository – Providing immediate world-wide open access to all UWE’s research output [online]. Available at: <http://eprints.uwe.ac.uk> [accessed 25 February 2019]

CPRE (Campaign to Protect Rural England) – CPRE campaign for a beautiful and living countryside. They work to protect, promote and enhance our towns and countryside to make them better places to live, work and enjoy, and to ensure the countryside is protected for now and future generations [online] Available at: www.cpre.org.uk/ [accessed 25 February 2019].

CPRE Resources provides the latest news articles, policy guidance notes, published reports and research surrounding the following - Countryside, Farming and food, **Housing and planning**, Energy and Waste, and Transport [online]. Available at: www.cpre.org.uk/resources [accessed 25 February 2019]

CPWR (The Center for Construction Research and Training) – CPWR is dedicated to reducing occupational injuries, illnesses and fatalities in the construction industry through research, training and service programs. CPWR [online] and available at: www.cpwr.com/ [accessed 25 February 2019]

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The **Design Council** champions great design that improves lives and makes things better [online] and available @ www.designcouncil.org.uk/ [accessed 25 February 2019]. See also **Inclusive Design Hub for the Built Environment** (a project of The Design Council) listed below.

Designing Buildings Wiki [online] and available at: www.designingbuildings.co.uk/wiki/Home [accessed 25 February 2019] - an industry-wide, cross-discipline forum for finding and sharing information.

Designing Buildings Wiki – Student resources [online] and available at: www.designingbuildings.co.uk/wiki/Student_resources [accessed 25 February 2019] – *Designing Buildings Wiki* has a wide range of resources aimed at students of the built environment, as shown here.

DOAB (Directory of Open Access Books) is a service which harvests details of academic and mainly peer-reviewed books published on open access [online]. Available at: www.doabooks.org/doab [accessed 25 February 2019]

DOAJ (Directory of Open Access Journals) covers all open access scientific and scholarly journals, using a quality control system to guarantee the content [online]. Available at: <https://doaj.org/> [accessed 25 February 2019]

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The Economics Network provides publications, events and other resources to support university teachers of economics throughout the UK and worldwide [online]. Available at: www.economicsnetwork.ac.uk [accessed 25 February 2019]

Engineering and Physical Sciences Research Council (EPSRC) is the main UK government agency for funding research and training in engineering and the physical sciences, investing more than £800 million a year in a broad range of subjects – from mathematics to materials science, and from information technology to structural engineering [online] and available at: www.epsrc.ac.uk/ [accessed 25 February 2019]

English Heritage cares for over 400 historic buildings, monuments and sites – from world-famous prehistoric sites to grand medieval castles, from Roman forts on the edges of the empire to a Cold War bunker. Further information is available at: www.english-heritage.org.uk/ [accessed 25 February 2019]. **Note:** English Heritage has now separated into two organisations. If you are looking for information on listing, planning, grants or heritage research and advice, please visit **Historic England** (listed below).

Estates Gazette The UK's largest commercial property news team [online]. Available at: www.egi.co.uk/Property/Home.aspx [accessed 25 February 2019] incl. **Estate Gazette, News from the nationals** – Round-up of the top property stories with quick links ... [online].

European Real Estate Society (ERES) was established in 1994 to create an international real estate network between academics and professionals across Europe [online]. Further information is available at: www.eres.org/ [accessed 25 February 2019]. **ERES Digital Library** [online] and available at <http://eres.scix.net/cgi-bin/works/Home> [accessed 25 February 2019]

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Great Buildings [Online]. Available at: www.greatbuildings.com [accessed 25 February 2019] provides a database of buildings around the world and across all historic periods. You can search the database by building names, place or architect name. It provides access to 3D models, photographic images and architectural drawings.

Glenigan [online]. Available at: www.glenigan.com/ [accessed 25 February 2019] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

The Green Construction Board [online]. Further information is available at: www.greenconstructionboard.org/ [accessed 25 February 2019] – The role of the GCB is to provide leadership and action to enable the whole value chain (clients, contractors, product manufacturers and suppliers) to become more environmentally, sustainably, more productive and better placed to exploit the growing global market.

The Guardian, Housing network – providing insight, advice and best practice from your community [online]. Available at: www.guardian.co.uk/housing-network/ [accessed 25 February 2019]

The Guardian, Higher Education network [online]. Available at: www.guardian.co.uk/higher-education-network [accessed 25 February 2019]

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Health and Safety Executive (HSE) – HSE is the national independent watchdog for work-related health, safety and illness. HSE are an independent regulator and act in the public interest to reduce work-related death and serious injury across Great Britain's workplaces [online]. Available at: www.hse.gov.uk/index.htm [accessed 25 February 2019] and **HSE – Health & Safety in the construction industry** [online] is available @ www.hse.gov.uk/construction/ [accessed 25 February 2019]

HELM (Historic Environment Local Management) - provides accessible information, training and guidance to decision makers in local authorities, regional agencies and national organisations whose actions affect the historic environment. **Note:** You can now find all HELM web content on the **Historic England** website [online] and available @ www.historicengland.org.uk/advice/planning/local-heritage/helm-redirect [accessed 25 February 2019].

Heritage Alliance - The largest coalition of heritage interests in England, the Heritage Alliance is the umbrella body for national and major regional Heritage NGOs [online]. Available at: www.theheritagealliance.org.uk/ [accessed 25 February 2019]

Heritage Alliance's Heritage Update E-Bulletin [online]. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 February 2019]

Heritage Update: the online edition of the fortnightly Heritage Alliance's Heritage Update e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 February 2019]

Heritage Help - Created by the Joint Committee of the National Amenity Societies, Heritage Help offers information and advice on matters related to the management and protection of local historic environments [online]. Available at: <http://heritagehelp.org.uk> [accessed 25 February 2019]

Higher Education Academy (HEA) – The Higher Education Academy champions excellent learning and teaching in higher education. The HEA are a national and independent organisation, funded by the four UK HE funding bodies and by subscriptions and grants [online]. Available at: www.heacademy.ac.uk/ [accessed 25 February 2019] and **HEA Knowledge HUB** [online] and available at: www.heacademy.ac.uk/hub [accessed 25 February 2019]

Higher Education Empirical Research (HEER) Database comprises summaries of the latest published research on a range of topics related to higher education [online]. Available at: <http://heer.qaa.ac.uk/> [accessed 25 February 2019]

Historic England is the public body that looks after England's historic environment. Historic England champion historic places, helping people understand, value and care for them. Further information is available at: www.historicengland.org.uk/ [accessed 25 February 2019]

Home Builders Federation (HBF) – HBF represents and serves its members in a range of ways including; Ensuring senior politicians and government officials are aware of housing issues and the challenges faced by our members; and working with Government officials to ensure housing policies are introduced that facilitate housing supply, in a way that is workable for the industry [online]. Available at: www.hbf.co.uk/ [accessed 25 February 2019]

House Building Careers (part of HBF) – Here you will be able to learn about the home building industry and how it benefits you, your community and the country as a whole [online]. Further information available at: <http://housebuildingcareers.org.uk/> [accessed 25 February 2019]

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ICDE (International Council for Open and Distance Education) – ICDE is the leading global membership organisation for enhancing the quality of open, distance, flexible and online education, including e-Learning [online]. Available at: www.icde.org/ [accessed 25 February 2019]

ICE (Institution of Civil Engineers) ICE is a registered charity that strives to promote and progress civil engineering [online]. Available at: www.ice.org.uk/ [accessed 25 February 2019]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 25 February 2019] is a free database that indexes all ICE journals.

IHBC (Institute of Historic Building Conservation) is the principal professional body for building conservation practitioners and historic environment specialists working in England, Northern Ireland, Scotland and Wales, with connections to the Republic of Ireland [online]. Available at: www.ihbc.org.uk [accessed 25 February 2019]

Inclusive Design Hub for the Built Environment is a collection of the latest guidance and best practice on inclusive design in the built environment (and a project of **The Design Council**) [online]. Available at: www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment [accessed 25 February 2019]

INFABODE connects its community of users with industry information from the Real Estate sector on one customisable online platform. Infabode reduces the amount of time people spend trying to access key information from the Real Estate industry. **INFABODE** [online]. Available at: www.infabode.com/dashboard [accessed 25 February 2019]

ITcon – The Journal of Information Technology in Construction is a peer-reviewed scholarly journal on the use of IT in architecture, civil engineering and facility management [online] and available at: www.itcon.org/ [accessed 25 February 2019]

IWFM (Institute of Workplace and Facilities Management) – Formerly the British Institute of Facilities Management, BIFM is now the IWFM. The workplace has been incorporated into their new brand so that the status of the professional can help take careers further, regardless of specialism. **IWFM** [online]. Further information is available at: www.iwfm.org.uk/ [accessed 25 February 2019]

IWFM Insights – discover leading research and resources for the workplace and facilities management profession. **IWFM** [online]. Available at: www.iwfm.org.uk/insight [accessed 25 February 2019]

IWFM News – discover the latest news affecting the profession and gain expert insight and advice. **IWFM News** [online]. Available at: <https://www.iwfm.org.uk/news> [accessed 25 February 2019]

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JOLT (Journal of Online Learning and Teaching) - The **MERLOT Journal of Online Learning and Teaching** is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education [online]. Available at MERLOT Journal of Online Teaching and Learning (JOLT): <http://jolt.merlot.org> and <http://jolt.merlot.org/currentissue.html> [accessed 25 February 2019]. **Note:** See MERLOT below.

JournalTOCs is the largest, free collection of scholarly journal Title of Contents (TOCs) [online]. Available at: www.journaltoocs.ac.uk/index.php [accessed 25 February 2019]

JEBE (Journal for Education in the Built Environment) is the leading UK publication for pedagogy in the built environment disciplines [online]. Further information is available within the **Higher Education Academy (HEA) Knowledge HUB** [online] and available at: www.heacademy.ac.uk/hub [accessed 25 February 2019]

JEBE JISC Content – This website provides an introduction to digital collections designed for education. They are mainly aimed at university students, researchers and librarians but many of the online archives are open to anyone @ www.jisc.ac.uk/website/legacy/jisc-content [accessed 25 February 2019]. **Note:** The JISC Content portal closed on 1 July 2016, however links are provided to Archives Hub and Digital Resources from this link.

JORUM – After 13 years delivering and sharing content across the higher education, further education and skills sectors the Jorum service and website was retired on 30 September 2016. However, many of the open education resources (OER) that were available in Jorum, access to

their **Archive** can be accessed via the JISC website [online]. Available at: www.jisc.ac.uk/website/legacy/jorum [accessed 25 February 2019] where you can also gain access to JISC's full digital resources offer.

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Leeds Beckett University's - Built Environment [CeBE] – CeBE has researched ways to reduce domestic energy use for nearly 20 years [online]. Available at: www.leedsbeckett.ac.uk/research/research-areas/research-areas/built-environment-cebe/ [accessed 25 February 2019]. **CeBE's Virtual Site Gallery** contains construction details, case studies, site photographs, and plant details @ www.leedsbeckett.ac.uk/teaching/vsite/gallery/ [accessed 25 February 2019]

Lexology – A comprehensive source of international legal updates, analysis and insights. Lexology publish in excess of 450 articles every day from over 1,100 law firms and service providers worldwide across 50 work areas in 25 languages. Lexology [online]. Available at: www.lexology.com/ [accessed 25 February 2019]

Local Government Association (LGA) - The LGA is the national voice of local government. They work with councils to support, promote and improve local government [online]. Available at: www.local.gov.uk/ [accessed 25 February 2019]

LGA Knowledge Hub - Knowledge Hub is the public sector's professional social network which helps people in local government connect and share online in a secure environment [online]. Available at: <https://khub.net/> [accessed 25 February 2019]

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MERLOT – Multimedia Educational Resource for Learning and Online Teaching. The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) at www.cdl.edu [accessed 25 February 2019] developed and provided free access to MERLOT at www.merlot.org [accessed 25 February 2019]. MERLOT is a curated collection of free and open online teaching, learning, and faculty development services contributed and used by an international education community.

MERLOT Journal of Online Learning and Teaching (JOLT and mentioned above) is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education [online]. Available at MERLOT Journal of Online Teaching and Learning (JOLT): <http://jolt.merlot.org> and <http://jolt.merlot.org/currentissue.html> [accessed 25 February 2019]. Note: The MERLOT community is joining with the Online Learning Consortium (OLC - formerly Sloan C and mentioned below) to expand scholarly research in the field of online education, with a merger of the Journal Online Learning (formerly JALN) and the Journal of Online Learning and Teaching (JOLT).

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National BIM (Building Information Modelling) Library, the construction industry's free-to-use resource of the NBS (trading name of RIBA Enterprises Ltd) standard BIM content [online]. Available at: www.thenbs.com/services/our-tools/nbs-national-bim-library [accessed 25 February 2019], NBS homepage is available at: www.thenbs.com/ [accessed 25 February 2019], and NBS Knowledge [online] is available at: www.thenbs.com/knowledge [accessed 25 February 2019]

National Building Specification (NBS) > Home > Publication Index [online]. Available at: www.thenbs.com/PublicationIndex/Publisher/Index?FirstLet=B [accessed 25 February 2019]

National Skills Academy for Construction (NSAfC) – The NSAfC is an industry-led framework supporting clients and contractors to identify, develop and realise employment and skills solutions across construction projects [online]. Available at: www.citb.co.uk/national-skills-academy-for-construction/ [accessed 25 February 2019]. It is facilitated by the CITB – Construction Industry Training Board (see above).

The National Trust protect historic houses, gardens, mills, coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages and pubs [online]. Available at: www.nationaltrust.org.uk/ [accessed 25 February 2019]

National Trust's Land use & planning [online]. Available at: www.nationaltrust.org.uk/what-we-do/big-issues/land-use-and-planning/ [accessed 25 February 2019]

NCE [online]. Available at: www.nce.co.uk [accessed 25 February 2019] is the official website of the **New Civil Engineer**, a weekly magazine published for the ICE.

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OAJSE (Open Access Journals Search Engine) – An Open Access e-Journal portal. Search for articles in Open Access journals from around the World (excl. India) [online]. Available at: www.oajse.com/index.html [accessed 25 February 2019]. Specialist subject areas including-Business and Management; Construction; Economics; Education; Law; Library and Information Science; and Social Sciences to name but a few. **Please note:** OAJSE has recently been upgraded.

OECD (Organisation for Economic Cooperation and Development) iLibrary is the online library of the OECD, featuring its books, papers and statistics and is the gateway to OECD's analysis and data. It replaced SourceOECD in July 2010 [online]. Available at: www.oecd-ilibrary.org [accessed 25 February 2019]

OER Hub - Open Education Resources, Research Hub – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices [online]. Further information is available at: <http://oerhub.net/> [accessed 25 February 2019]

Online Learning Consortium (OLC) – The OLC is devoted to advanced quality online learning by providing professional development, instruction, best practice publications and guidance to educators, online learning professionals and organisations around the world. Further information is available at Online Learning Consortium [online] and available at: <http://onlinelearningconsortium.org/> [accessed 25 February 2019]

OLC's Online Learning – the official journal of the Online Learning Consortium [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 25 February 2019]

Open Praxis – Open Praxis (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education [online]. Available at: <http://openpraxis.org/index.php/OpenPraxis/index> [accessed 25 February 2019]

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 25 February 2019]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 25 February 2019]

ORBEE (Open Resources in Built Environment Education) contains a collection of free, high quality teaching and learning materials for online learning or use in the classroom [online].

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www.Parliament.co.uk, **Research briefings** produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). Parliament, Parliamentary business, Publications and records, Research briefings [online]. Further information is available at: <http://researchbriefings.parliament.uk/> [accessed 25 February 2019]

The Planning Portal - the UK Government's online planning and building regulations resource for England and Wales [online]. Available at: www.planningportal.co.uk/ [accessed 25 February 2019]

Planning Advisory Service (PAS) – The Planning Advisory Service provide consultancy and peer support, training sessions and online resources to help local authorities understand and respond to planning reform [online]. Available at: www.local.gov.uk/pas [accessed 25 February 2019].

Note: PAS have a new website

Planning Officers Society (POS) – The Planning Officers Society is the voice for public sector planning practitioners, pursuing good and effective planning practice within local government [online]. Available at: www.planningofficers.org.uk/ [accessed 25 February 2019]

The Prince's Foundation was created by the merging of The Prince's Foundation for Building Community, The Prince's Regeneration Trust, The Great Steward of Scotland's Dumfries House Trust and The Prince's School of Traditional Arts in 2018. This combined force enables the charity to achieve HRH's goal of creating harmonious communities, through three core tiers [online]. Available at: <https://princes-foundation.org> [accessed 25 February 2019]

PPN (Property People's Network) is open to all interested in land and property and provides a forum to network through a range of social activities and visits [online]. Available at: www.pponline.co.uk/ [accessed 25 February 2019]

Property Week – Commercial property news [online]. Available at: www.propertyweek.com/ [accessed 25 February 2019]

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Regeneration and Renewal – Placemaking Resources incorporating *Regeneration & Renewal* magazine blog [online]. Available at: <http://regen.net/home/> and www.placemakingresource.com/ [accessed 25 February 2019]

Revo – Retail. Property. Community (formerly BCSC (British Council of Shopping Centres) is the professional body and authoritative voice for retail property and placemaking-led regeneration and for the management of and investment in shopping places [online]. Further information available at: www.revocommunity.org/ [accessed 25 February 2019]

RICS (Royal Institution of Chartered Surveyors) is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction. See also Explore RICS [online]. Available at: www.rics.org/uk/ [accessed 25 February 2019]

RICS > News & Insights [online]. Available at: www.rics.org/uk/news-insight/ [accessed 25 February 2019]

RICS > Upholding Professional Standards [online]. Available at: www.rics.org/uk/upholding-professional-standards/ [accessed 25 February 2019]

RICS Library services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 25 February 2019]

RICS Library Online catalogue – 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at: <http://unicorn.rics.org/uhtbin/cgisirsi.exe/0/0/0/60/69/X> [accessed 25 February 2019]

Royal Town and Planning Institute (RTPI) – RTPI is the UK's leading planning body for spatial, sustainable and inclusive planning and is the largest planning institute in Europe with over 23,000 members. In 2014 they celebrate their Centenary [online]. Available at: www.rtpi.org.uk/ [accessed 25 February 2019]

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Savills Research – Savills Research, Insight & Opinion provides advice and analysis to clients across the UK, with specialists in commercial, residential and rural property research [online] and available at: www.savills.co.uk/insight-and-opinion/research.aspx [accessed 25 February 2019]

Specification Online – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at: <http://specificationonline.co.uk> [accessed 25 February 2019]

Supply Chain Sustainability School – The Supply Chain Sustainability School represents a common approach to developing sustainability competence in the supply chain. It is a free resource available to any supplier and is part of their continued commitment to lead the industry into a brighter, more sustainable future. Supply Chain Sustainability School [online]. Further information is available at: www.supplychainschool.co.uk/uk/default-home-main.aspx [accessed 25 February 2019]

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The Telegraph – Property and construction industry: The latest news, analysis and share prices on Britain's biggest construction and property companies [online]. Available at: www.telegraph.co.uk/property-and-construction-industry/ [accessed 25 February 2019]

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UCEM (University College of Estate Management) is the leading provider of supported distance learning for real estate and construction professionals [online]. Available at: www.ucem.ac.uk/ [accessed 25 February 2019]

University of the West of England (UWE), Centre for Architecture and Built Environment Research (CABER) – The CABER seeks to develop innovative approaches, procedures, technologies and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric and the environments they create. **Note:** CABER incorporates the previous Centre for Construction and Property Research (CPRC) CABER [online]. Available at: www1.uwe.ac.uk/et/research/cprc.aspx [accessed 25 February 2019]

UWE Educational Resources for the Built Environment (ERBE) – The ERBE produces unique and highly respected educational resources for academic and professional use and incorporates the **Video Project** and the **Construction Website**. Further information can be found on the ERBE website [online] and available at: www1.uwe.ac.uk/et/cp/erbe.aspx [accessed 25 February 2019]

UWE, ERBE, The Video Project produces films on building construction, history and conservation. Established in 1992 and has produced over 30 films which are widely used nationally and internationally at all levels of academia, CPD and in professional practice [online]. Further information is available at: www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx [accessed 25 February 2019]

UWE, ERBE, The Construction Website is an interactive encyclopaedia covering construction, conservation and building history. It is expanded and revised on an annual basis [online]. Further information is available at: www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx [accessed 25 February 2019]

UWE, Research Repository (CPRC) – Providing immediate world-wide open access to all UWE’s research output [online]. Available at: <http://eprints.uwe.ac.uk> [accessed 25 February 2019].

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Virtual Training Suite - This website provides a set of free Internet tutorials to help students develop their Internet research skills for a particular University course [online]. Available at: www.vtstutorials.co.uk/ [accessed 25 February 2019]

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ZETOC: The monitoring and search service for global research publications, providing access to over 29,000 journals and more than 52 million article citations and conference papers through the British Library’s electronic table of contents [online]. Available at: <http://zetoc.mimas.ac.uk/> [accessed 25 February 2019]

The web-links provided were correct at time of compilation.

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