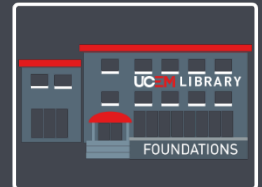
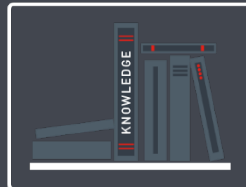


PLEASE NOTE: This document is over 125 pages long. Please consider the environment before printing this document. Please do not let over 100 pages put you off ... there is a contents page to help you select and easily navigate towards areas of most interest.

| 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



September 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:](#) Councils warn of health risk of permitted developments - The biggest *Placemaking Resource* (incorporating *Regeneration + Renewal*) hitting the news are shared. In this article, a new report highlights council concerns that homes created using permitted development rights could risk their occupants' health and wellbeing.

[Case Study:](#) When children get the chance to shape a place

[Analysis:](#) Building trust as well as homes

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

Latest Data Protection News and Research:

- **General Data Protection Regulation (GDPR) - [What's new in August 2019?](#)**
- [Related resource links and further information on Data Protection Incl. What we're doing at UCEM;](#) Construction firms hit by cyber-attacks, the National Cyber Security Strategy, and more.

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

- [Only one building completes cladding remediation in July 2019,](#)
- [Grenfell Tower inquiry report delayed until October 2019,](#) and
- GOV.UK – [Information relating to the fire at Grenfell Tower.](#)

Other News and Views cont.

[Whaley Bridge: How safe are Britain's dams?](#)

[The Heritage Index and the rising price of heritage materials](#)

Skills agenda – [Post Brexit skills shortages to push up tender prices by 4%](#)

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

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

[Women in the construction sector – how the industry is coming together to recruit and retain women](#)

Brexit/Brextension – [Leaving the EU: advice for businesses](#)

[Skanska blames Brexit for weakening UK market](#)

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

Latest research from CBRE – [Smarter Cities 2025](#)

[High Streets in Great Britain – ONS releases data analysis and interactive maps](#)

Royal Institution of Chartered Surveyors (**RICS**) **Knowledge and research, August 2019** – [Insights](#) cover topical issues in land, real estate, construction and infrastructure to promote understanding of the profession, aid knowledge transfer and stimulate debate.

RICS Market Surveys incl. [RICS UK Construction and Infrastructure Market Survey: Q1 2019](#)

[Selecting benchmark building prices & further information on RICS's Building Cost Information Service \(BCIS\)](#)

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

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

- [Chartered Institute of Building \(CIOB\) surveys the built environment sector to gather data on mental health and stress](#)
- [Revaluing Parks and Green Spaces – Measuring their economic and wellbeing](#) – Latest research from Fields in Trust

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

[Affordable Rents compared to traditional social rents, and access to the ‘JRF Framing toolkit: Talking about poverty’](#)

[Households below a Minimum Income Standard: 2008/09-2016/17](#) - Latest research from Loughborough University and funded by JRF

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

UK Property Research – Latest research from Savills UK incl.

- [UK Property Research](#) - *Valuing Britain 2018*
- [Housing research](#) – Publication / *UK Housing Market Update* – August 2019
- [Residential research](#) – Publication / *Spotlight: Prime Residential Rents* – July 2019
- [Commercial Investment](#) – Publication / *Spotlight: Leeds offices* – August 2019
- [Rural Research](#) – Publication / *Spotlight: Game & conservation Benchmarking 2019* – July 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](#)
- [CIOB response to the ‘Building a Safer Future: Proposals for reform of the building safety regulatory system’ consultation](#)
- [Press Release: Combined Action Needed to Tackle Severe Skills Shortages](#)
- [Construction and the Modern Slavery Act: Tackling Exploitation in the UK](#)

Latest information on Apprenticeships incl.

- [Apprenticeships starts rise for first time since levy launch](#)
- [Apprenticeship funding: how it works](#) (Government guidance – Updated 03/2019)
- [Develop talent for your business](#) - Further information on UCEM Apprenticeship programme
- [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 07/2019 July Edition –

- [CIS Insight](#) (07/2019 Edition) – ‘Working with gas – A brief exploration of types, history, safety and legislation’. In this article, *CIS Insight* talk about the types of gas used for cooking, heating and other

applications, briefly explore their history, touch on safety and point you to current legislation and guidance,

as well as the latest current awareness, industry news, publications news and further reading that can be accessed 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.

- [The unspoken decline of outer London – Why is poverty and inequality increasing in outer London and what needs to change?](#)
- [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](#), 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), a charity that works to preserve and protect historic places and spaces – for ever, for everyone

- [NT - Big Issues and their views](#), Incl. Brexit and the future of farming; Phasing out single use plastics; NT response to HS2; Stonehenge A303 Road Improvement Scheme, and more.
- [Planning and Infrastructure](#) - 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 at a local level](#).

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

Foster + 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? A Step-by-step guide to using BIM on projects
- 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. New International Standards and BIM Reports in full,
- Blogging about BIM, Construction and NBS.

[Latest news on BIM](#) – BIM Execution Framework for early-stage estimating in Public Private Partnerships [PPP] projects

[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](#)

Shortlist for the 2019 RIBA Stirling Prize Announced – On 18 July 2019, six projects were shortlisted for the coveted 2019 Stirling Prize: awarded to the **UK’s best new building**, and

RIBA International Prize 2020



Property and Construction Statistics

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

- [RICS UK Economy and Property Market Chart Book \(Q2, 2019\)](#) – Economy will struggle for momentum until Brexit is sorted
- [UK Residential Market Survey \(June 2019\)](#)

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

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: May 2019](#)
- [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 – July 2019: The Precision 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 – [facilitate](#), July 2019: the latest issue. The latest workplace and facilities management news, covering professional development, the outsourced service sector, market analysis, legislation and key business reports.
- The Heritage Alliance's latest [‘Heritage Update’](#) e-Bulletin (July, 2019) – The e-Bulletin provides current awareness and industry news over a number of built environment-related fields incl. ‘July #HeritageChat; ‘Government Publishes Interim Report: Creating Space for Beauty’; ‘Mayor of London Turns Down Tulip Tower’; ‘The Heritage Index and the Rising Price of Heritage Materials’; ‘Shortlist for the 2019 RIBA Stirling Prize Announced’; ‘RIBA International Prize 2020’; ‘Mapping collaborative

interactions between the heritage and higher education sectors'; 'Jerwood's New Diversity & Inclusion Toolkit for Arts Employers', 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 (April - June 2019) incl. 'Structural changes in the landscape of Spanish distance universities'; 'How e-learning engagement time affects academic achievement in e-learning environments. A large-scale study of open and distance learners'; 'Impact of organisations culture, organisational communication and supervisor support on the job satisfaction of employees working in online IT based distance learning institutions of Pakistan'; 'Fostering Openness in Education: Considerations for Sustainable Policy-Making'; 'The Effectiveness of Open Education Resources in College Calculus. A Quantitative Study'; 'User-Generated Content's Impact on the Sustainability of Open Educational Resources'; and more.
- [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 23, No 2 (2019)) incl. : **Faculty Development** – 'The Effectiveness of Professional Development in Overcoming Obstacles to Effective Online Instruction in a College of Education'; **Lessons From the Field** – 'Putting Theory into Practice: Incorporating a Community Engagement Model into Online Pre-professional Courses in Legal Studies and Human Resource Management'; 'Promoting a Sense of Belonging in Online Learning Communities of Inquiry'; **Student Issues, Pedagogy, Tools, and Support** – 'Designing and Developing Videos for Online Learning: A Seven-Principle Model'; 'Student engagement as predictor of xMOOC completion: An analysis from five courses on energy sustainability'; 'The Efficacy of an Online Cognitive Assessment Tool for Enhancing and Improving Student Academic Outcomes'; 'Learner Engagement in Blended Learning Environments: A Conceptual Framework'; 'A structural equation model of predictors of online learners' engagement and satisfaction'; 'Scribe Hero: An Online Teaching and Learning Approach for the Development of Writing Skills in the Undergraduate Classroom'; **Book Review** – 'A Book Review of Blended Learning in Action: A Practical Guide Toward Sustainable change', 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)

- [Managing Diversity and Inclusion in the Real Estate Sector](#)

- Studying at a Distance
- The new landscape of mobile learning: Redesigning education in an app-based world
- Rethinking Pedagogy for a Digital Age, 2nd edition
- Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
- 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. [Jisc Library Hub Discover \(formerly COPAC*\)](#) – Jisc Library Hub Discover 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. This new service is being built on the Jisc National Bibliographic Knowledgebase, whilst the new interface development is part of wider Jisc Library Services redevelopment activity.



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



[Student career service](#)

UCEM Careers service

GoConstruct.org – Careers website: A career in construction gives you the chance to be part of something BIG! goconstruct.org & [#ElizabethLine](https://twitter.com/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 – Summer 2019](#)

- Property Elite's latest blog post takes a closer look at some of the hottest topics for this Autumn's RICS APC assessments. Essential reading for RICS APC and AssocRICS candidates on a range of pathways, including Planning and Development. Access below is also provided to the audio version of the blog. If you are an RICS APC candidate, make sure you are aware of Property Elite's APC Support services, including submission reviews, question packs, revision quizzes and e-mock interviews. Further information is provided below.

[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 25 August 2019]. It is also featured within a fortnightly 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 August 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

UCEM gets high score from apprentices

UCEM achieved a Learner Satisfaction Score of 81.6% in the 2018/19 ESFA Learner Survey.

UCEM's score is a strong endorsement of the work being undertaken by the institution to deliver high-quality apprenticeships for learners.

UCEM Director of Commercial and Business Development, Stephen Bartle, commented: "I'm delighted with the outcome of the survey. The score underlines the positive experience most of our apprentices have with us and is consistent with the satisfaction felt by our employer partners which was reflected by the score they gave us in the most recently published employer survey [2017-1 survey]."

“The score is positive but I’m keen that it keeps edging higher year-by-year and we will do everything in our power to keep improving our apprenticeships so satisfaction levels are closer to 100%. We have made huge strides since offering our first apprenticeship in 2015 to becoming the leading provider of surveying apprenticeships and I hope we will continue our upward trajectory, successfully training more apprentices to launch their career in the Built Environment.”

For more information on how you can become an apprentice, visit the [Becoming an Apprentice](#) section of our website.

For full details of the ESFA Learner Survey, visit the government’s [FE Choices surveys webpage](#).

For further information, please visit

UCEM (2019) ‘UCEM gets high score from apprentices’ [UCEM Website Home > News & Events > News > UCEM gets high score from apprentices] UCEM Website [online], 15 August. Available at: www.ucem.ac.uk/news-events/news/ucem-gets-high-score-from-apprentices/ [accessed 25 August 2019]

Related Links:

UCEM (2019) ‘Becoming an Apprentice’ [UCEM Website Home > Home > Study with UCEM > Becoming an Apprentice] UCEM Website [online]. Available at: www.ucem.ac.uk/study-with-ucem/becoming-an-apprentice/ [accessed 21 August 2019]

GOV.UK, Education and Skills Funding Agency and Department for Education (2019) Collection: ‘FE Choices’, GOV.UK [online], 23 March 2017, Last updated 18 July 2019. Available at: www.ucem.ac.uk/study-with-ucem/becoming-an-apprentice/ [accessed 21 August 2019]

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UCEM apprentices win ‘Most Promising’ industry awards

Two UCEM apprentices’ early success in the Built Environment sector was recognised at a civil engineering association’s awards ceremony.

Alexandra Kosta and Shannon Rivolta, both Trainee Surveyors at highways maintenance and civil engineering firm, VolkerHighways, won Most Promising Apprentice and Most Promising Trainee Quantity Surveyor, respectively, at the CECA (Southern) Awards 2019 last month (see publication date).

The awards celebrate the achievements of industry professionals across the south of England, with Alexandra and Shannon’s awards success a glowing endorsement of their contribution to VolkerHighways so far.

Alexandra, who, like Shannon, is studying on UCEM’s Surveying Technician Diploma, commented: “I was encouraged to nominate myself. I’ve been in the industry for just over a year and have supported my firm’s KPIs in that time, doing advanced coding and staying on top of the works schedule. I helped to significantly improve the work performance.

“It was amazing to win. I felt appreciated for the work I do. I felt a bit awkward as I’m someone who doesn’t like to be the centre of attention but it felt really nice that my company appreciates my hard work.

“The apprenticeship has helped me to feel more confident when I have meetings with clients and I can now advise on legal aspects of works and provide suggestions about the work, having been a business administrator previously.”

Shannon added: “I was overwhelmed with joy when I was told I have been nominated for the Most Promising Trainee Quantity Surveyor award. Just the nomination alone is such a great achievement and I could not believe it.

“When I realised I had won, I was speechless. It came as a shock to me as I have always struggled with self-confidence so winning the award has helped me believe in myself. I’m grateful to my employer VolkerHighways for taking the time to write such a wonderful nomination and supporting me on the journey from administrator to trainee quantity surveyor.

“I have been able to apply skills learnt throughout the apprenticeship to my workplace and I believe this has had a positive impact on my career, gaining skills relating to personal effectiveness and time management.”

As for the future, Alexandra stated: I hope to finish my studies with UCEM this year with Distinction. I would like to carry on my journey and start a Quantity Surveying degree after my apprenticeship.” Shannon commented: “I plan to stay within Highways, progress in my RICS membership and gain Assistant Quantity Surveyor title.”

For more information about the awards, visit – CECA Southern Awards [online]. Available at: <https://www.ceca.co.uk/southern/lunch-awards/> [accessed 25 August 2019]

Congratulations, both, and best of luck with your futures in the profession!

For further information please visit:

UCEM (2019) ‘UCEM apprentices win ‘Most Promising’ industry awards’, [UCEM Website Home > News & Events > News > UCEM apprentices win ‘Most Promising’ industry awards] UCEM Website [online] 8 August. Available at: www.ucem.ac.uk/news-events/news/ucem-apprentices-win-most-promising-industry-awards/ [accessed 25 August 2019]

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UCEM Staff member wins best research paper award

A member of UCEM’s Online Education Department won the Best Research Paper Award at a prestigious ceremony in Bruges.

Learning Technology Researcher, Dr Tharindu Liyanagunawardena, who is also the Chair of the Online Research Centre, was recognised for her paper on automatic transcription software at the European Distance and e-Learning Network’s (EDEN) Annual Conference.

Titles ‘Automatic transcription software: Good enough for accessibility? A case study from Built Environment Education’, the paper was shortlisted alongside 23 other excellent submissions which were whittled down to eight finalists before being chosen as the best by an experienced jury.

Dr Liyanagunawardena reflected: “I am still pinching myself to make sure it’s not a dream! The chair of the jury said it was a unanimous decision and that when they critically evaluated each criteria there could be no other winner. They commended my openness and honesty about the scope of my study as well as being critical about the limitations of it.

“I am so proud to have been recognised for my work. The jury chair said that, methodology-wise, it was designed so meticulously they could not ask for anything more. This coming from Professor Alan Tait, a very well-respected researcher in distance education, meant a lot to me.

“I would like to thank UCEM for giving me the opportunity and support to do what I am passionate about.”

[Click here](#) to find out more about the 2019 EDEN Best Research Paper Award visit mazing to be going into the second half of the year on such a high!”

Dr Liyanagunawardena has written a short blog about her experience which you can read [here](#).

To read the award-winning paper, click [here](#).

Further information is also available at:

UCEM (2019) ‘UCEM student win UK real estate award’ [UCEM Website > Home > News & Events > News > UCEM staff member wins best research paper award] UCEM Website [online], 24 June. Available at: www.ucem.ac.uk/news-events/news/ucem-staff-member-wins-best-research-paper-award/ [accessed 25 August 2019]

EDEN (2019) ‘Connecting through educational technology – The 2019 EDEN Best Research Paper Awards’ [online]. Available at: www.eden-online.org/2019-bruges/the-2019-eden-best-research-paper-award/ [accessed 25 August 2019]

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100 years of UCEM & UCEM's July centenary newsletter published



UCEM has published its [July edition](#) of the centenary newsletter is now live on our website!

What's in this month's issue:

- The staff centenary event held at Shinfield Grange in June 2019 which featured a carousel, Segways, a magician, a marching band and more!
- A call for action for our centenary fund;
- Four noteworthy events from our history in July;
- A summary of the decade 1969-1979 in our history; and
- A look ahead at our next two centenary events in September.

Happy reading!

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 August 2019], and

UCEM (2019) – 'UCEM's July centenary newsletter published' [UCEM Website > Home > News & Events > News > UCEM's July centenary newsletter published] UCEM Website [online] 18 July. Available at:

www.ucem.ac.uk/news-events/news/ucems-july-centenary-newsletter-published/ [accessed 25 August 2019]

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The Augar review: UCEM response

A reduction in annual tuition fees from a maximum of £9,250 to £7,500 per year alongside improved funding and flexibility for vocational training are perhaps the significant outcomes from the Government-commissioned review into education and funding headed by Philip Augar, which was released on 30th May 2019.

Ashley Wheaton, UCEM Principal, commented: "2010's hike in permissible fees made it harder for people from less privileged backgrounds to enrol at university and left those who did with significant student debt. The subsequent reduction in maximum fees chargeable recommended by the Augar review would increase access to education for many people and in my view, this would be a positive step in terms of social mobility.

"It's also a positive that the report calls for the restoration of maintenance grants for students with lower income. The Government, however, must ensure that sufficient total funding remains in the system to maintain the delivery of high-quality education, particularly in specialised subjects, where there is high demand from industry.

"The extra support and flexibility promised for vocational learning is much-welcomed. We see from the sustained growth in UCEM's online programmes and apprenticeships that students appreciate the opportunity to realise their potential in the built environment at a reasonable cost, whilst working and earning, and without an additional student accommodation liability."

Another takeaway from the report was the recommendation to introduce a lifelong learning loan allowance which would be open to mature students as well as school leavers.

“The average age of a UCEM student is 30.5 and we have learners aged through to their 60s so it’s really pleasing to see allowances made for mature students in the report,” Ashley added: “There does need to be a careful and further evaluation of the recommendations around degree apprenticeships however, most notably the appointment of a single inspection body. I’d also urge a further review of the recommendations around eligibility for degree apprenticeships.

“The central recommendations of the review are very well aligned with UCEM’s core values of accessibility, relevance and cost-effectiveness and, as such, we are fully supportive.”

Further information is available at:

UCEM (2019) ‘The Augar review: UCEM response’ [UCEM Website > Home > News & Events > News > The Augar review: UCEM response] UCEM Website [online] 30th May. Available at: www.ucem.ac.uk/news-events/news/the-augar-review-ucem-response/ [accessed 25 August 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 25 August 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 August 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 August 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 August 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 August 2019]

See also: CIOB – Chartered Institute of Building website [online]. Available at www.ciob.org/masterminds-construction [accessed 25 August 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 Social Media sites also incl.



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



www.facebook.com/StudyUCEM [accessed 25 August 2019],



www.linkedin.com/company/university-college-of-estate-management [accessed 25 August 2019],



www.youtube.com/user/cembuildingfutures/videos [accessed 25 August 2019].

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Other news

Things you need to know this week: Councils warn of health risk of permitted development homes

'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, a new report highlights council concerns that homes created using permitted development rights could risk their occupants' health and wellbeing.

This and other stories incl.

- **Half of England's councils believe the homes being created using permitted development rights are potentially risking their occupants' health and wellbeing.** This is among the findings in a report by the Association for Public Service Excellence (APSE) and written by the Town and Country Planning Association (TCPA). The report, **Housing for a fairer society**, also notes that local authorities across the UK are reporting severe shortages of affordable housing for the fourth consecutive year, with only two per cent saying their need is not substantial. Three quarters of council in England and Wales said they rely on developer contributions as their main source of income to deliver affordable housing. Paul O'Brien, chief executive of APSE, said, "Permitted developments are in danger of becoming the new slum housing of the twenty first century, de facto permitting a dangerous slide into deregulated and ultimately damaging housing provision."
- **Affordable housing provider One Housing has named housebuilder Countryside as its preferred development partner for the regeneration of two estates in Camden, north London.** The proposed equal joint venture partnership will plan, design, fund and deliver the regeneration of the Gilbeys Yard and Juniper Crescent estates, subject to a positive resident ballot. The project will look to deliver up to 700 homes, including new homes for current residents. PRP is architect and masterplanner on the proposed redevelopment, and Quod is planning consultant.
- **Housebuilders Linden Homes and Miller Homes have completed a deal to jointly buy a site to the west of Chichester, Sussex, which is earmarked for 750 homes.** The partnership will deliver the first part of the wider Whitehouse Farm development, which secured outline planning consent from Chichester District Council last year. The proposal provides 30 per cent affordable homes, community amenities, country park

and other green space and amenities. Linden Homes South managing director Phil Chapman said, “The acquisition comes after nearly 16 years promoting the site along with Miller Homes through the planning system and working collaboratively with the local authority and local stakeholders.”

- **Grimsby has secured almost £4 million of government investment for regeneration as part of the next phase of its town deal.** Under this second phase, North East Lincolnshire Council will work with national charity OnSide to develop a youth zone in Grimsby town centre. The listed West Haven Maltings buildings, on the site of the town’s oldest dock, have been earmarked for potential conversion for the youth zone. Councillor Philip Jackson, leader of North East Lincolnshire Council, said, “The town-deal is acting as a catalyst to unlock a much wider regeneration programme for Grimsby town centre and the port of Grimsby.” Youth zones provide large-scale multi-activity facilities, such as multi-use 3G pitches, indoor sports hall, climbing wall, gym music, dance and performing arts spaces. OnSide is working with the council and local business community to secure capital and revenue funding for the youth zone.
- **Homes England is to work with the Ministry of Defence’s Defence Infrastructure Organisation to bring forward development plans for a 1,300 home scheme in Ripon, in north Yorkshire.** The Claro and Deverell Barracks site is the first to be progressed under a partnership between the two aimed at developing surplus Ministry of Defence land. As well as homes, the site is expected to provide commercial space.
- **Developer St Mowden has sealed a deal with Stoke on Trent City Council, which will see the local authority acquire its Trade Park Industrial development.** The move comes after the developer won planning consent to develop a further 8,000 square metres of industrial space at St Modwen Park Stoke Central, which itself is part of the larger Festival Park scheme. The third phase of development on the site begins this month (see publication date), with the developer building the 4,000 square metre Trade park for the council plus a 4,000 square metre industrial/logistics unit, available to lease. Trade Park will provide a range of small employment units.
- **A quarter of people over the age of 55 are considering moving home, but more than half feel housing options available are inadequate.** This is among the findings of a report published by the Royal Institute of British Architects (RIBA), which cites data from think tank the Centre for Towns and market research specialist ComRes. In its report, **A home for the ages: Planning for the future through age-friendly design**, RIBA makes a number of recommendations, including proposing that all new building housing should be accessible and adaptable.

Related links:

TCPA (2019) ‘Housing for a fairer society: the role of councils in ensuring stronger communities’, TCPA [online]. Available at: www.tcpa.org.uk/housing-for-a-fairer-society-the-role-of-councils-in-ensuring-stronger-communities [accessed 25 August 2019].

RIBA (2019) ‘A Home for the Ages: Planning for the Future with Age-Friendly Design’, RIBA [online]. Available at: www.architecture.com/knowledge-and-resources/resources-landing-page/a-home-for-the-ages-planning-for-the-future-with-age-friendly-design# [accessed 25 August 2019]

Source: Smit J (2019) ‘Need to know: Councils warn of health risk of permitted development homes’, **Placemaking Resource** (incorporating *Regeneration + Renewal*) [online] 17 July. Further information available at: www.placemakingresource.com/article/1591361/need-know-councils-warn-health-risk-permitted-development-homes [accessed 25 August 2019]

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Case study: When children get the chance to shape a place

- A Manchester project has explored child-friendly design by asking children to create a play structure for a planned park and prototyping the end result, finds the author of this article.

Mayfield, an area behind Manchester Piccadilly station, is one of that city’s prime targets for regeneration. The 12 hectare former rail depot site extending from the station to the river Medlock has been largely unused for nearly three decades and the subject of numerous unrealised development proposals.

The Mayfield Partnership, a public private joint venture partnership bringing together LCR, Manchester City Council, Transport for Greater Manchester and developer U+I, are looking to making regeneration happen, with proposals for a major mixed use scheme. This summer, they are seeking planning consent for the first phase of development, which includes more than 8,000 square metres of office space, multi-storey car park, park and public realm. Retail, leisure and some 1,300 homes are among the future plans for the overall scheme, which is designed by Studio Egret West.

Right from its earlier stages, the developers have promoted a vision of a new 2.5 hectare park on the site. The vision has captured the imagination of local residents, but the development partnership also wanted to get the

views of children. So U+I asked design studio Standard Practice to work with children on a project to design a prototype structure for the park.

Challenges

As a large scale project, Mayfield takes time to plan and will take a further decade to deliver. A series of meanwhile projects are, however, happening on the site to help bring it to life and engage the local community, including the GRUB food festival.

Playfield is very different to many meanwhile initiatives, as it is purely for and about children, including those at Medlock Primary School, in Ardwick, the closest school to Mayfield. The link to the school was established during the community consultation into the refreshed strategic regeneration framework last year (see publication date).

This level of engagement with the children is a rarity in development. “We tend to be working with adults, so there has been a learning curve for us,” says Standard Practice’s project manager Jess Higham.

Solutions

The initiative involved eight weeks of workshops, which were attended by around 124 school-age children. More formal classroom based sessions took place at the school, while less formal drop-in sessions were held in a space on the Mayfield site. Over the course of the workshops, the children didn’t simply learn how to design a piece of play equipment; they got the chance to explore arts, crafts, design, masterplanning and placeshaping.

The aim was to encourage the children to explore ideas. “The first workshop was about surrealism, using the exquisite corpse game to create bizarre characters,” recalls Higham. “That was a way of getting the children to think about designing for the needs of others, rather than about what they wanted,” explains Higham. They used a range of tools to design, including Minecraft, Lego and wooden kits.

The workshops found that children wanted a structure that would deliver on three themes: safety, imaginative play and a journey. Over the course of five weeks, Tim Denton, a designer and maker of furniture and structures, brought the children’s thinking to life using durably plywood. The structure is very different to the usual swings and slides, not least in its colour scheme, which largely spurns primary colours in favour of tasteful grey. “We had a workshop using wooden dowels and asked the children to colour them, but they wanted to keep them natural,” says Higham. “So this is relatively neutral compared to most play equipment.”

The structure has been installed on a multi-coloured resin base at Mayfield, where it had its official launch in June last month. It is now open for play on Fridays, Saturdays and Sundays until October.

Next steps

This structure is described as a prototype and could influence the design of features for the final park. “It’s a symbol of what’s to come,” says Higham. The children have had an influence in other ways, coming up with a new name for the final playground: May Play.

Higham says that her practice has learned from the experience of working with the children. “Kids are just as passionate as adults about places,” she continues. “But the terminology we use in talking about cities could be much clearer. We had to strip it back for the children. For example, when we tackled masterplanning in week seven, we explained it by relating it to treasure maps.”

Children gave broadly similar views to adults when asked about the park, except for one key difference, Higham says. “Adults tend to think about things like transport and access, while children want to know where they can slide or whether they can go in the river.”

Experiences such as this help to inform the debate about designing more child-friendly cities and places. Higham points out that extending the design viewpoint away from the able-bodied, middle aged adult can be challenging. “It’s a big change,” she says. “For children it involves considering a whole variety of concerns, from how to navigate a street with a pram to whether children can run freely. It is something that we as a practice are taking forward.”

For the Manchester children, this is unlikely to be the end of their engagement with the plans for Mayfield. And given the decade-long delivery schedule for Mayfield, today’s junior placeshapers could eventually be the scheme’s actual residents and workers.

Further information is available at:

Source: Smit J, (2019) ‘Case Study: When children get the chance to shape a place’, **Placemaking Resource**

(incorporating *Regeneration + Renewal*) [online], 2 July. Further information available at:

www.placemakingresource.com/article/1589779/case-study-when-children-chance-shape-place [accessed 25 August 2019]

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Analysis: Building trust as well as homes

- Grosvenor is the latest to report a lack of trust in placemaking and the planning system, and it is among those working to build it, finds the author of this article.

A new survey has just confirmed research carried out in Scotland more than two years ago (see publication date), finding that there is a lack of trust between communities, planning authorities and developers to deliver a quality outcome for all. That is bad for UK homebuilding targets, for the places being made, for people and their communities and for local democracy.

Landowner and developer Grosvenor canvassed more than 2,000 members of the UK public in early 2019, to gauge their trust in placemaking and the planning system for large scale development. The survey found that when it came to such development, just two per cent of the public trusted developers and only seven per cent trusted local authorities. The findings were described by Grosvenor chief executive Craig McWilliam as, “a significant wake up call to all involved in large scale development”.

The public’s views echo research findings published by the Scottish government in 2017, as well as points made by the Town and Country Planning Association’s Raynsford Review of Planning, published late last year. It also provides further food for thought for the government’s Building Better, Building Beautiful Commission, which has just published its interim report, *Creating space for Beauty*. That report sets out many positive ways in which communities are being engaged in the development process, as well as the legal duty to consult and the growth of Neighbourhood planning. But it also recognises that there has been a breakdown in trust, quoting evidence from one civic society, which said, “this process of collaborative engagement is now practically defunct.”

Building trust with the community

Grosvenor has pledged to take its own actions to help build trust with the communities in which it works. It says it will make it easier for the public to weigh the value and costs created by development, by outlining – in plain English – the anticipated social; and environmental benefit created for a community locally and more widely, as well as the expected financial risk and returns for Grosvenor. It has pledged to increase transparency in the consultation, decision-making and design process for development, by enabling scrutiny from an independent and objective commentator. And it has also committed to improving its consultation process.

It is also planning to establish an industry working group, with representatives from developers, the public sector and civic society – to develop a set of joint pledges. McWilliam says, “Developers and councils all need to be involved to engage more people in the planning process, to explain ourselves better, to raise interest and understanding in the choices that have to be made and to increase transparency.”

Building trust with stakeholders

Mistrust extends to local stakeholders, as Raynsford Review acknowledged when it quoted a parish councillor saying, “Planning is ... not about people, it’s about greed.”

“Developers fear that planning committees will make political decision, while planning committees fear developers will be focused on their profits,” says Michael Hardware. Hardware works across private and public sector as director of planning and property at public relations company Chelgate, deputy cabinet member for economic development at Essex County Council and vice chair of its development and regulation committee, and a district councillor at Harlow Council.

Efforts to build trust between developers and planning committee members have to be careful to avoid lobbying individual interests, says Hardware. He points to the positive learning opportunities that can be provided by site visits, like those for Kent Developers’ Group, an association that brings land and property owners, and commercial and residential developers together with local authorities.

In September (see publication date), Ashford Borough Council committee members will be taking the first of a planned series of tours by Kent councils to exemplar sites. “They’ll be seeing examples of good placemaking, and developers and committee members will be able to discuss what makes a good place as well as the obstacles faced,” says Hardware, who hopes to see the initiative repeated in Essex.

Further information is available at:

Smit J (2019), ‘Analysis: Building trust as well as homes’, Placemaking Resource, *Incorporating Regeneration and Renewal* [online], 17 July. Available at: www.placemakingresource.com/article/1591305/analysis-building-trust-homes [accessed 25 August 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 August 2019]

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Latest Data Protection News & Research:

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 (ICO) 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:

August 2019 – The ICO has updated their position on how to calculate the time limit for responding to requests (in relation to Individual rights) following a determination made in a Court of Justice of the European Union (CJEU) case which has been adopted by the European Data Protection Board (EDPB). The ICO have also added guidance on the meaning of 'manifestly unfounded or excessive'. The following pages have been updated incl.

- Right of access;
- Right of rectification;
- Right to erasure;
- Right to restrict processing;
- Right to data portability; and
- Right to object.

June 2019 – The European Data Protection Board (EDPB) published Guidelines 2/2019 on the processing of personal data under Article 6(1)(b) GDPR in the context of the provision of online services to data subjects for consultation.

March 2019 - The EDPB has adopted:

- Guidelines on certification and identifying certification criteria in accordance with Articles 42 and 43 of the Regulation 2016/679
- Guidelines on the accreditation of certification bodies under Article 43 of the GDPR (2016/679)

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 August 2019]

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Related resource links and further information on Data Protection:

• In relation to UCEM

At 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 with the 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 August 2019]

• What is GDPR?

WATCH: What is GDPR? [video]. Available via the above-mentioned link. Duration [**1m 53s**] and via

- **Data laws made fit for the digital age**

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 August 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 August 2019]

- **Construction firms hit by massive summer surge in cyber-attacks**

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 August 2019]

- **National Cyber Security Strategy: Progress Report**

- The National Cyber Security Strategy 2016 to 2021 and progress so far against its strategic outcomes. The National Cyber Security Strategy 2016 to 2021 set out the government's plan to make Britain secure and resilient in cyberspace. A progress report has now been published, which outlines the progress the Government has made, and the impact on their interventions so far against its strategic outcomes. The report focuses on both the power of technology for the benefit of citizens, but also sets out Government's commitment to understand and tackle issues surrounding cyber security.

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

GOV.UK, Cabinet Office, and National security and intelligence (2019) **Policy paper: 'National Cyber Security Strategy 2016 to 2021 and progress so far'** [GOV.UK Home > Government > Cyber security] GOV.UK [online]. Available at: www.gov.uk/government/publications/national-cyber-security-strategy-2016-to-2021-progress-so-far [accessed 25 August 2019]

- **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.

Source: Department for Digital, Culture, Media and Sport (2019) 'DCMS blog' [online]. Available at:

<https://dcmsblog.uk/> [accessed 25 August 2019] and <https://dcmsblog.uk/2019/01/data-protection-and-brexit-is-your-organisation-prepared/> [accessed 25 August 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)?**

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

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

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Grenfell Tower - Latest developments / outcomes from

Only one building completes cladding remediation in July 2019

- Dangerous aluminium composite (ACM) cladding was replaced on just one at-risk building in July, according to new government figures.

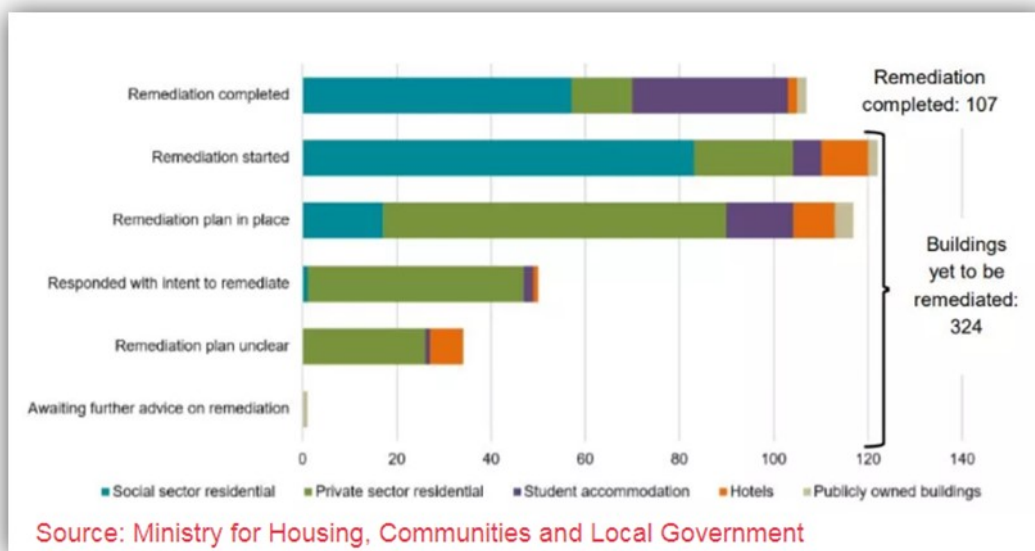
There are still 324 high-rise residential and publicly owned buildings with ACM cladding unlikely to meet Building Regulations that have yet to be remediated in England, more than two years on from the Grenfell Tower disaster.

The government’s Building Safety Programme identified 107 buildings in England where remediation works were complete – just one more than the total at the end of June (see publication date).

However, there was progress when it came to checks on private sector residential buildings where the cladding status is still to be confirmed, which has now fallen from 170 building in June 2018 to five at the end of July this year.

Of the 101 social sector residential buildings yet to be remediated, 83 have started remediation, 17 have a plan in place but have not started and one has reported an intent to remediate and is developing plans.

Of the 166 private sector buildings with ACM cladding yet to be remediated, 21 have started remediation, 73 a plan in place but have not started, 46 have responded with an intent to remediate and are developing plans, and 26 buildings remain with unclear remediation plans.



Further information is available at:

Source: Gerrard N (2019) ‘Only one building completes cladding remediation in July’, *Construction Manager* [online], 16 August. Available at: <http://www.constructionmanagemagazine.com/news/only-one-building-completes-cladding-remediation-j/> [accessed 19 August 2019]

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[Grenfell Tower inquiry report delayed until October 2019](#)

- A report from the Grenfell Tower public inquiry into what happened on the night of the fire that killed 72 people on 14 June 2017 will not be published until October 2019, months later than planned, while phase 2 hearings into the refurbishment of the building won’t start until 2020.

That’s according to an update from the inquiry, which has written to core participants to inform them of the new schedule.

The inquiry said writing the phase 1 report, originally expected in spring this year (see publication date), had been “far more complex and time-consuming” than originally anticipated.

The report will set out what happened on the night of 14 June 2017, including an almost minute-by-minute description of how the fire started, how it spread, and what happened on each floor of the tower. It also involves a detailed description and analysis of what was happening in the emergency services’ incident control room and on the ground.

IN a statement, the inquiry said: “There is a significant volume of evidence to be reviewed and detailed work to be home to ensure findings are properly tied to all relevant parts of the evidence. The chairman [Sir Martin Moore-Bick] is seeking to complete the report as soon as possible but needs to ensure he does not compromise its thoroughness and accuracy. The inquiry must also accommodate sufficient time for the rule 13 process,

under which the chairman is required to send warning letters to individuals or organisations that may be subject to criticism in order to give them an opportunity to respond before the report is finalized.

“The inquiry expects the rule 13 to begin in July and that the chairman will be in a position to write to the prime minister with his final report after the parliamentary recess, for publication most likely in October.”

Meanwhile, preparation for the second phase of the inquiry, which examines the refurbishment of Grenfell Tower and how it came to be in a condition that allowed a fire of this scale to occur, is continuing.

Phase 2 hearings are expected to be in January 2020. So far, the inquiry has disclosed 36,100 documents relating to phase 2, with more tranches to be disclosed throughout this year. The next tranches of disclosure will include Building Control documents, mechanical and engineering documents relating to the lift and smoke control system, and documents relating to fire risk assessment.

Further information is available via:

Source: Gerrard N (2019) ‘Grenfell Tower inquiry report delayed until October’, *Construction Manager* [online], 20 May. Available at: www.constructionmanagemagazine.com/news/grenfell-tower-inquiry-report-delayed-until-octobe/ [accessed 25 August 2019]

Related Links:

RICS (2019) ‘[The case for a global fire safety standard](http://www.rics.org/uk/news-insight/future-of-surveying/sustainable-building/the-case-for-a-global-fire-safety-standard/)’ [RICS Website Home > News & Insight > Future of surveying > Sustainable building > The case for a global fire safety standard] RICS UK [online]. Available at: www.rics.org/uk/news-insight/future-of-surveying/sustainable-building/the-case-for-a-global-fire-safety-standard/ [accessed 25 August 2019]

Gerrard N (2018) ‘Grenfell one year on: how has construction changed?’, *Construction Manager* [online], 29 May. Available at: www.constructionmanagemagazine.com/insight/grenfell-one-year-how-has-construction-changed/ [accessed 25 August 2019]

CIAT, Designing Buildings Wiki (2019) ‘Building a safer future: an implementation plan’ [online], last edited 3 April 2019. Further information is available at: www.designingbuildings.co.uk/wiki/Addressing_building_failures:_Grenfell_Tower_and_Edinburgh_schools [accessed 25 August 2019]

The full article ‘[Addressing Building Failures: Grenfell and Edinburgh Schools](http://library.myebook.com/UBM/architectural-technology-journal-127-autumn-2018/1468/#page/43)’ was written by Francesca Berriman MBA, HonDTEch, CEO of CIAT. It first appeared in the Autumn 2018 issue of *Architectural Technologist* (AT) and is available at: <http://library.myebook.com/UBM/architectural-technology-journal-127-autumn-2018/1468/#page/43> [accessed 25 August 2019]

Hackitt Review

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

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

Building a safer future: an implementation plan

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], **Last updated 13 March 2019**. 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 August 2019]

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 [accessed 25 August 2019]

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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.

- Memorial Commission
- Independent Grenfell Recovery Taskforce
- Public Inquiry
- Immigration
- Letters
- Announcements and updates
- Guidance

Source: GOV.UK, Ministry of Housing, Communities & Local Government (2017), Collection: 'Grenfell Tower' [online], last updated: 11 June 2019. Available at: www.gov.uk/government/collections/grenfell-tower [accessed 25 August 2019]

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Other News and Views:

Whaley Bridge: How safe are Britain's dams?

- More than 1,500 people were evacuated from the Derbyshire town since Thursday 1st August following heavy rain
- Police have now said that it is safe for residents to return to their homes and will be assisting them with the move
- The latest pictures of the reservoir show it almost completely drained of water, with levels dropping 31 feet
- **Environment Agency said Toddbrook Reservoir dam would be rebuilt in a construction project lasting as long as three years**

Toddbrook Reservoir dam in Whaley Bridge will be rebuilt in a project lasting up to three years after being damaged by heavy rain. It's not often you read about dams in the news and the BBC took the opportunity to report on the state of dams in the UK which, reassuringly (though perhaps not for the residents of Whaley Bridge!), noted how rare these incidents are and how unlikely it is that there would be damage to other dams. Fortunately for the villagers, there was a cast list of heroes who ensured that they remained safe, having realised the severity of the situation early on and raised the appropriate alarms. Hopefully there won't be any need for a repeat performance in the UK any time soon and life will return to normal in Whaley Bridge.

So, what has happened at Toddbrook Reservoir, and how safe are Britain's dams?

Areas covered within this article incl.

- How does the dam work?
- What went wrong at Toddbrook?
- How many dams do we have?
- Who makes sure dams are safe?
- How often do dams fail?
- How safe are people living near dams?

Further information is available at:

Lowbridge C (2019) 'Whaley Bridge: How safe are Britain's dams?' [BBC News > UK > England] BBC News [online], 3 August. Available at: www.bbc.co.uk/news/uk-england-derbyshire-49196766 [accessed 25 August 2019]

Related Links:

Leatherdale D (2019) 'Whaley Bridge dam: The people who saved a village', [BBC News > UK > England], BBC News [online], 10 August. Available at: www.bbc.co.uk/news/uk-england-49275929 [accessed 25 August 2019]

Williams T-A (2019) 'Whaley Bridge reservoir is drained dry as all 1,500 residents are finally allowed home a week after town was evacuated because of damaged dam', *Daily Mail* [online], 7 August, updated 12 August.

Available at: www.dailymail.co.uk/news/article-7332751/More-1-500-Whaley-Bridge-residents-FINALLY-allowed-home.html [accessed 25 August 2019]

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The Heritage Index and the rising price of heritage materials

- Ecclesiastical, the UK's leading insurer of Grade I listed buildings, recently announced the provisional results of its buildings index for the first quarter of 2019.

The Ecclesiastical Heritage Building Cost Index rose by 1.2% in the first quarter of 2019 compared to the previous quarter, and by 3.4% year on year. The rising costs of traditional buildings materials, such as handmade brick, hardwood and stone have resulted in this 3.4% annual increase in the reconstruction and repair costs of heritage properties. Stone has seen the largest increase in price, with a 4.4% annual increase in the reconstruction and repair costs of heritage properties. Stone has seen the largest increase in price, with a 4.4% annual increase in price. Hardwood products have seen an increase 4.1% annual increase, while handmade bricks have been an annual increase of 3.3%.

The Ecclesiastical Heritage Building Cost Index (EHBCI) is specifically designed to track the costs associated with the reconstruction and repair traditional properties throughout Britain. Sourcing and sustainability supplies of traditional material such as handmade bricks is essential for the maintenance and repair of historic buildings. The index helps to reduce the risk of underinsurance for owners of traditional properties through the duration of their insurance policy.

It should be noted that the Ecclesiastical Heritage Index continues to track about the General Building Cost Index. For further information please visit:

Source: Ecclesiastical Risk Management (2019), 'Ecclesiastical Heritage Index' [online]. Available at: www.ecclesiastical.com/insights/heritage-index/ [accessed 25 August 2019]

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Skills agenda

Post Brexit skills shortages to push up tender prices by 4%

- Tender prices are set to rise by 4% in 2022 as post-Brexit skills shortages bite across construction.

The latest forecasts from Arcadis predict rises after a period of industry "treading water" while politicians dither over Brexit.

The consultancy has held its short-term inflation forecast at just 2-3% to 2021 as clients take a 'wait-and-see' approach to the current political turmoil. Delays are adding competitive pressure to the market, but the trend is highly sector specific. Markets such as data centres are particularly busy, while others including offices, industrial and schools are on a downward curve.

Arcadis said there is enough competition to put a partial brake on input cost inflation in the short to medium term. But tighter labour markets from 2022-23 means costs are predicted to rise by 1% per annum, reaching 4% by 2022. Earnings growth for construction employees has averaged 4.2% over the past year, up from 2.1% in 2017.

Simon Rawlinson, Head of Strategic Research and Insight at Arcadis, said:

"UK construction has a long-established skills and training problem.

"With skilled EU labour making up 8-10% of the workforce, specialist contractors and employers have been shielded from the necessity of developing and maintaining the skills of their workforce.

"However, with the prospect of post-Brexit restrictions on migration, we're now racing a real crisis in terms of future labour capacity.

"The supply chain will need to look at other options for increasing productivity.

"Off-site manufacturing currently delivers around 8% of industry output, but with the introduction of a government mandate, this could increase significantly.

"Adopting new technologies to improve processes will help to eliminate waste and duplication, while a renewed focus on training and re-training – particularly with the introduction of T-levels in 2020 – will further help to support a much-needed flow of talent."

Source: Prior G (2019), 'Post Brexit skills shortages to push up tender prices by 4%', *Construction Enquirer* [online], 12 June. Available at: www.constructionenquirer.com/2019/06/12/post-brexit-skill-shortages-to-push-up-tender-prices-by-4/ [accessed 25 August 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 August 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 August 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 August 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 August 2019]. [Back to top](#)

[Women in construction sector – how the industry is coming together to recruit and retain women](#)

The All-Party Parliamentary Group (APPG) for Excellence in the Building Environment announced in April 2019 that its seventh inquiry will examine how the recruitment and retention of more women in construction is one of the necessary steps in addressing the industry's skills' needs, particularly post-Brexit.

Industry estimates suggest that construction in the UK will create over 168,000 jobs between 2019-2023.

Demand to fill those roles, while large numbers of workers are retiring and while there is uncertainty over Brexit and the number of migrant workers available to support the UK workforce, means it is more important than ever to increase diversity to help address the skills shortage.

Further information is available at:

Source: CIOB (2019), 'Women in the construction sector – how the industry is coming together to recruit and retain women', CIOB [online], 30 May. Available at: <https://www.ciob.org/media-centre/news/women-construction-sector-%E2%80%93-how-industry-coming-together-recruit-and-retain-women> [accessed 25 August 2019].

Related Link:

Construction Manager (2019), 'Construction's gender imbalance revealed', *Construction Manager* [online], 26 March. Available at: www.constructionmanagemagazine.com/news/constructions-gender-imbalance-revealed/ [accessed 25 August 2019].

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 August 2019].

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Brexit / Brextension

[Leaving the EU: advice for businesses](#)

- Use this information to help you prepare your business for leaving the European Union (EU)

When the UK leaves the EU there may be changes that affect your business. This leaflet contains some of the actions you can take now to help you prepare. It also includes guidance on the wide range of support available to help your business grow as the UK leaves the EU.

This information is available to download for print or for viewing on screen.

Further information is available at:

GOV.UK, Department for Business, Energy, Energy & Industrial Strategy (2019) 'Promotional material: Leaving the EU: advice for businesses' [GOV.UK > Home > Government > Brexit] GOV.UK [online]. Available at: www.gov.uk/government/publications/leaving-the-eu-advice-for-smes?utm_source=facebook&utm_medium=social&utm_campaign=SME+leaflet [accessed 25 August 2019]

Related Links:

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 August 2019]

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 August 2019]

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[Skanska blames Brexit for weakening UK market](#)

- Skanska has warned that Brexit has impacted the UK civils market, as the Swedish group downgraded its forecast for the coming year (see publication date).

In its six-month **report** for January to June 2019, Skanska downgraded its outlook in Europe, with a weak market expected in both the building and non-residential sector and the civils sector in the coming 12 months. The firm's expectations for the civils market have fallen compared to the previous quarter.

The company said: "In the UK, the uncertainty related to Brexit is limiting investments in the non-residential building market and is also impacting the civil market negatively."

Overall, Skanska's revenue for the first six months of 2019 fell by 3% to SEK 80.9bn (£6.7bn), while its operating income increased by 61% to SEK 3.2bn (£270m).

President and chief executive Anders Danielsson said: "In construction, we are progressing in line with our strategic plan to gradually improve profitability. We are completing projects with low profitability, mainly in Poland and the USA, and focusing our operations in an overall simplified structure. We are also reducing the risk in our backlog of future work by being very selective in our bidding process. Overall, the order bookings are lower than our revenue, but we continue to allow for higher bookings in our well-performing units.

"Looking at the market situation, it is overall positive but with a slightly weaker outlook for the coming twelve months in certain segments and markets. The competition in many of our markets is fierce and complexity in projects and contracts is increasing. We have for that reason put efforts into improving our contract management and claims managing process."

Further information is available at:

Gerrard N (2019) 'Skanska blames Brexit for weakening UK market', *Construction Manager* [online], 26 July.

Available at: www.constructionmanagermagazine.com/news/skanska-warns-weakening-uk-market/ [accessed 25 August 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 August 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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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 [online]. Further information is available at: www.bbc.co.uk/news/uk-politics-32810887 [accessed 25 August 2019]

Brexit timeline: UK's departure from the EU [online]. Further information is available at: www.bbc.co.uk/news/uk-politics-43546199 [accessed 25 August 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 August 2019]

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Latest research from CBRE – Smarter Cities 2025

- The term "smart" can be a prefix for a whole host of things: phones, motorways, tickets, cards, buildings. And also, **cities**, many of which are making concerted attempts to become smarter as a way of generating a range of economic, social, cultural and other benefits for residents, visitors and businesses. But what exactly is a "smart city"?

CBRE recently (see publication date) co-sponsored a major global research study entitled **Smarter Cities 2025 Building a Sustainable Business and Financing Plan**, carried out by ESI ThoughtLab. The report was launched on November 13th and the various outputs can be found via the source provided below.

The study analysed the “smart” credentials of 136 cities across the world, and categorized the cities into “beginner”, “transitioning”, and “leader” stages of smart city maturity. Since the term “smart” is itself a very broad description, the study assessed cities across ten specific elements of smart city development: governance, economy, infrastructure, talent, funding, mobility, environment, public safety, public health, and payment systems.

Cities are at every different stages in this journey and there is a wide variation in the level of priority, degree of sophistication and exact focus of smart city initiatives. Cities mostly see livability enhancements – such as improved safety and better infrastructure – as the main benefits, but they expect revenue and financial benefits to feature more strongly as their efforts progress. Uncertainty about the ROI of specific programmes is widespread concern, or even an inhibitor, and can make it difficult to select among different possible approaches. Sharing the experiences and challenges of the “leader” cities ought to help those at an earlier stage to pursue profitable routes. Nothing wrong with learning from others’ mistakes!

Overall:

- Smart investments trigger a virtuous cycle of economic growth by generating capital for new smart city investments and attracting businesses, residents, tourists, and talent.
- To achieve those catalytic impacts, cities need to build a clear path to a smart city future.
- With digital technologies evolving at speed, cities need to conduct frequent feasibility checks on their plans and be prepared to adapt.
- Data is the fuel for smart city transformation, and cities need to make data management a core area of excellence.
- Spending on smart programs rises with smart city maturity.
- The future of mobility will be multi-modal transportation systems interconnected through smart technology
- Civic leaders see the environment as the top challenge to address through smart city programs and improved public safety and health as the main benefits of current smart initiatives.
- Funding smart city solutions is a key challenge for most cities.

Smart city initiatives intersect with lots of areas that are highly relevant to CBRE clients, including city planning, infrastructure, energy, placemaking, smart buildings, technology innovation and regeneration. In raising the amenity and efficiency of cities, smart city initiatives have the potential to boost property values in specific areas, or even to raise the economic status of an entire city. Getting alongside city authorities at the planning stage and working to understand – or, better still influence – the impacts of smart city initiatives will be to the advantage of forward-looking owners and occupiers.

Holberton R (2019) ‘Smarter Cities 2025’, CBRE [online]. Available at: <http://aboutrealestate.cbre.eu/smarter-cities-2025/> [accessed 25 August 2019]

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High Streets in Great Britain – ONS releases data analysis and interactive maps

The Office for National Statistics (ONS) and Ordnance Survey (OS) have collaborated to identify high streets in Great Britain, what types of properties and businesses are on high streets as well as how the number of businesses and employment have changed in recent years.

The analysis is based on almost 7,000 unique high streets identified by Ordnance Survey with the greatest number found in London (2014) and the smallest number in the North East (276). The OS figures also show that across Great Britain over half (56%) of addresses on high streets are residential, with just under a third (31%) being used for retail.

An interactive map published on the OS website showing the location and makeup of each of these high streets is available via the weblinks provided below (1).

ONS figures show that the percentage of people living within 200m of a British high street is on average 16%, with London (38%) having the highest proportion of residents living near a high street and East of England (11%) having the lowest percentage.

In 2017 there were 404,145 businesses registered on high streets, 13% of all businesses in Great Britain. London had the largest share of its businesses on the high street (23%) while the East of England had the lowest share of its businesses on them (10%).

Between 2012 and 2017 the number of retail businesses on the high street fell (-2%) while those not based on the high street grew (+6%). The number of high street retail jobs fell in every GB region except London (+6%) over this period. In 2017, retail made up 25% of total high street employment, with this number being highest in the South West of England (31%) and lowest in London (18%).

The full High streets in Great Britain release is available via the weblinks provided below (2)

Related Links:

1) Ordnance Survey (2019) 'OS Data supports Britain's high streets' [online]. Available at: www.ordnancesurvey.co.uk/business-and-government/public-sector/britains-high-streets.html [accessed 25 August 2019]

2) Office for National Statistics (2019) Release: 'High streets in Great Britain' [online]. Available at: www.ons.gov.uk/releases/highstreetsingreatbritain [accessed 25 August 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 395**, 6 June 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

Sources of further information on Britain's High Streets / Retail Sector:

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 August 2019]

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 August 2019]

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 August 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 August 2019]

CBRE (n.d.) *Future of Retail 2030* [online]. Further information is available at: www.cbre.com/united%20states/real-estate-services/real-estate-industries/retail-services/retail-innovation-hub/retail-2030 [accessed 25 August 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 August 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 **19 August 2019**, the topics covered include.

- **UK Chart Book and Survey Market Updates** – A monthly snapshot of the UK economy, focusing on the construction, housing and commercial property sectors.

- **Global Commercial Property Monitors** – Our global commercial property monitors are leading indicators of conditions in commercial property occupier and investor markets around the world.
- **BIM Execution Framework for early-stage estimating in PPP projects** – The use of Public Private Partnerships (PPP) as the vehicle to procure large-scale social and physical infrastructure projects is becoming increasingly deployed around the globe (**see further information below**).
- **Integration of geospatial data for retaining wall management** – This research examines the use of the lower accuracy UAV data where high accuracy data from the terrestrial laser scanner is available but has incomplete coverage.
- **Drones: applications and compliance for surveyors** – This insight paper discusses the opportunities, rapidly developing applications and compliance challenges of using drones in a surveying environment.
- **International models for delivery of affordable housing in Asia** – The availability of adequate housing is a concern for all Asia countries
- **Industrial still huge demand as retail fails to pick up** – Conditions in the commercial property sector remain varied, with industrial property seeing solid growth and retail showing little sign of improvement
- **UK Residential Market Survey** – The UK Residential Market Survey is used by the government, the Bank of England and other key institutions, including the IMF, as an indicator of current and future conditions in UK residential sales and lettings (further information is below).

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 August 2019]

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RICS Market surveys – UK Construction and Infrastructure Market Survey: Q1 2019

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

Source: RICS website > Home > News & Insight > Research > Market surveys > **UK Construction and Infrastructure Market Survey**

Incl.

RICS (2019) *UK Construction and Infrastructure Market: Q1 2019* [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-construction-and-infrastructure-survey/ [accessed 25 June 2019]

Housing activity supports growth amidst uncertainty

- Market confidence indicator nears a six-year low but is still consistent with moderate growth
- Outlook for workloads and employment growth improves as capacity constraints linger
- Financial constraints deepen as credit conditions tighten.

Further information and access to the report in full is available at:

RICS (2019) *UK Construction and Infrastructure Market Survey: Q1 2019* [RICS website > Home > News & Insight > Research > Market surveys > **UK Construction and Infrastructure Market Survey**] RICS [online]. Available at:

Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-construction-and-infrastructure-survey/ [accessed 25 August 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 cost's 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 August 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 August 2019] [Back to top](#)

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/ [accessed 25 August 2019]. [Back to top](#)

Tackling mental health and wellbeing within the construction industry

CIOB surveys the sector to gather data on mental health and stress

The Chartered Institute of Building (CIOB) is undertaking an extensive survey into mental health within the construction industry. This is increasingly becoming a critical issue within the industry; the CIOB is responding to recent figures from the Office of National Statistics (ONS)* which found that men in the UK construction industry are almost four times more likely to take their own lives than men on average.

Professor Charles Egbu, President of the CIOB, said of the survey: “This is an incredibly important issue and one that aligns with the theme of my presidency. For over 20 years I’ve been looking into the area of mental health and wellbeing and there is much research out there which sets out the scale of the problem and shows that it is complex. My hope for the outcomes of the survey is that, although there’s no one solution that addresses these issues, we can gather data which will point to practical data which will point to practical support and solutions that will work.”

The results from the survey will be analysed to establish which are the primary pressures on construction workers at different levels (e.g. director, site, manager, site worker etc.) and whether there are any other patterns across the responses. Depending on the analysis, this information is then likely to be used to:

- Develop recommendations for both the construction sector and policymakers to help reduce the pressures identified
- Draw the above recommendations, if legislative change is required, into a policy paper to discuss with parliamentarians
- Gather case study material to exemplify the primary issues raised in the survey and demonstrate the impact that these issues can have on individuals
- Shape a detailed report outlining the findings, sharing the case studies and summarizing any policy recommendations.

It is anticipated that the CIOB’s report with the analysis of the survey will be available later this year (2019).

Further information and access to the survey is available at:

CIOB (2019) ‘CIOB surveys the sector to gather data on mental health and stress’, [CIOB Website Home > Media Centre > CIOB News > CIOB Surveys the sector to gather data on mental health and stress] CIOB [online]. Available at: www.ciob.org/media-centre/news/ciob-surveys-sector-gather-data-mental-health-and-stress [accessed 28 August 2019]

Related links incl.:

Wellbeing consideration for property managers

Wellbeing strategy model:



Source: BSRIA (2019), ‘Wellbeing considerations for property managers’, Designing Buildings.co.uk Wiki [online],

last edited 19 March 2019. Further information is available at:

www.designingbuildings.co.uk/wiki/Wellbeing_considerations_for_property_managers [accessed 25 August 2019]



Source: Builder&Engineer (2017)

The Co-op Community Wellbeing Index - 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 April 2019]. Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 August 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 August 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 August 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 August 2019]

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

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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 August 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 August 2019]

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[Affordable Rents compared to traditional social rents](#)

- This analysis looks at the difference between 'Affordable Rent' and traditional council and housing association rent levels (social rent).

Rent payments are the single biggest cost for many households. Access to low-cost social rented housing is a key issue in preventing low incomes families being swept into poverty.

The cost of renting in the social housing sector has steadily increased in recent years, as existing rents rose, and many new lettings are at higher market-linked 'Affordable Rents'.

Findings

Affordable Rents for typical two-bed properties work out at 30% more expensive than social rents. On average this is **£1,400** per year.

Affordable Rents are more expensive throughout England, but the difference is noticeably bigger in Southern Regions.

Yorkshire and the Humber is the region with the smallest difference between the types of rent at **£650** per year, in the South East this is **£2,000** per year and in London it's **£3,350** per year.

There are ten London boroughs where the difference is over **£5,000**.

Methods

2016/17 rent data was taken from the latest **Homes and Communities Agency dataset of all private registered providers of social housing in England, released on 24 October 2017**. The dataset has monthly rents for all property types from private registered providers of social housing in England, split by Local Authority area. The average social and Affordable Rents for general needs two-bed housing were calculated based on the mean cost of all general needs two-bed units across the Local Authority Districts. There are 326 such areas and they include single-tier unitary and metropolitan authorities and lower-tier county districts. Information was unavailable for three districts: Barrow-in-Furness, Isles of Scilly and City of London.

Average social and Affordable Rents have also been calculated at a regional and national level.

These figures are for England and do not take into account service charges, supported housing or housing for older people.

For further information, please visit:

Source: JRF analysis unit (2018) 'Affordable Rents compared to traditional social rents' [online], 13 July. Available at: www.jrf.org.uk/report/affordable-rents-compared-traditional-social-rents [accessed 25 August 2019]

Related topics: Society; Social and political attitudes; and Income and benefits.

JRF Housing Related Links:

Brook P (2019) 'Framing toolkit: Talking about poverty' [online], 14 March. Available at: www.jrf.org.uk/report/framing-toolkit-talking-about-poverty [accessed 25 August 2019]

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

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

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

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

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

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[Households below a Minimum Income Standard: 2008/09-2016/17 – Latest research from Loughborough University and funded by Joseph Rowntree Foundation \(JRF\)](#)

The latest report in the Minimum Income Standard programme, funded by the Joseph Rowntree Foundation (JRF) looks at the changes in the adequacy of incomes, as measured by individuals' ability to reach the Minimum Income Standard (MIS), between 2009/09 and 2016/17. It is the seventh in an annual series of reports tracking the total number of individuals in the UK living below the MIS threshold. Note that the publication date for this series is usually the autumn, but this version was delayed from autumn 2018; we expect to publish the 2017/18 version in late 2019.

The present report shows a reduction in the numbers below MIS in the past three years but identifies some groups for whom the number has risen or remained at a very high level.

This includes lone parents, and further analysis in a separate report looks more closely at recent trends and projects for this group.

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

Stone J, Padley M and Hirsch D (2019) '*Households below a Minimum Income Standard: 2008/09-2016/17*', York: Joseph Rowntree Foundation [online]. Available at: www.jrf.org.uk/report/households-below-minimum-income-standard-200809-201617 [accessed 25 August 2019]

Hirsch D and Stone J (2019) '*Lone parents under pressure*', Loughborough: Centre for Research in Social Policy, and

Hirsch D (2019) '*London parents under pressure – summary of trends*', Loughborough: Centre for Research in Social Policy.

Loughborough University (2019) 'Centre for Research in Social Policy, Publications' [online]. Available at: www.lboro.ac.uk/research/crsp/publications/ [accessed 25 August 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 August 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 August 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 August 2019]

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Research

Publication | UK Housing Market Update

- Housing market steadies, as both prices and activity levels stabilize

Summary

House prices rose 0.3% in July (see publication date), according to Nationwide, leaving annual growth also at 0.3%. This broadly flat national average hides the regional variation, with strong growth in the Midlands and Wales balancing out the falls in London and the South. It now looks likely that the UK will see zero average house price growth in 2019, undershooting the 1.5% growth Savills forecast in October 2018, which assumed an orderly Brexit in March 2019 as per major economic projections at the time.

This zero price growth matches the latest RICS survey results, which saw roughly even numbers of surveyors reporting prices rising as falling. But there are greater signs of optimism, pointing to stabilizing market values and volumes. More surveyors are now reporting price rises than at any time since August 2018. They are also showing increasing optimism in activity levels, with a narrow majority seeing rising numbers of both inquiries and instructions for the first time since last summer (2018). This is supported by the Land Registry transaction figures, which, while declining, have been falling at a reduced rate over the past few months.

This modest strengthening in activity suggests some buyers and sellers gave up waiting for Brexit, following agreement of the current extension in April. Many buyers simply cannot delay moving indefinitely but will attempt to avoid peaks of uncertainty. The next is obviously the October Brexit deadline (see publication date), when it is far from clear what will happen. Brexit with a deal, without a deal or a further extension. What actually happens will determine the speed and strength of any boost to activity levels. But as long as any lack of demand is matched by low numbers of people wanting to sell, prices are unlikely to see a major change.

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

Source: Hampson E, and Buckle C, Savills Research and articles (2019), 'Publication: *UK Housing Market Update*' [online], 5 August. Available at: https://www.savills.co.uk/research_articles/229130/287500-0 [accessed 25 August 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 August 2019]

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Residential Research

Publication | Spotlight: Prime Residential Rents

- Robust tenant demand for prime property, but also more discerning

Despite the uncertainty surrounding Brexit and what it might mean for the economy, tenant demand for prime property has remained surprisingly robust so far in 2019. This has contributed to a noticeable slowing in the rate of annual rental falls seen during the past two to three years, and the return of modest annual rental growth in some markets.

But the demand has also become more discerning. The message we hear is that potential tenants are focusing on two things.

The first is quality. 'Lettability' has become more property specific. The standard of finish has become a key differentiator, but so too has character.

The second is value for money, which among other things has made many tenants more flexible on location, and not just within London.

On the supply side, those buy to let landlords who carry mortgage debt continue to have their finance squeezed. That squeeze has tightened with restrictions on the fees agents can pass to tenants. So, politics is influencing the market beyond Brexit. And with the announcement of a consultation on how to abolish so-called 'no-fault evictions' it is set to continue to do so.

Articles within this publication incl.

- A return of rental returns,
- Taking on the establishment, and
- But what about the landlord?

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

Source: Cook, L, Tomlinson J [et al.], Savills Research and articles (2019), 'Publication – *Spotlight: Prime Residential Rents*' [online], 31 July. Available at: www.savills.co.uk/research_articles/229130/287210-0 [accessed 25 August 2019]

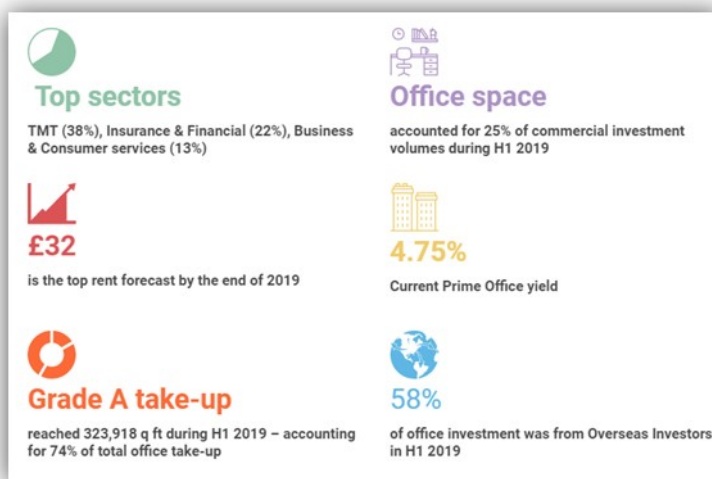
Savills Research (2019) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 25 August 2019]

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Commercial Investment

Publication | Spotlight: Leeds offices

- Leeds has seen the best first half take-up since 2013; however, there is less than a year's worth of Grade A supply in the market.



Source: Bailey C (2019), 'Publication: *Spotlight: Leeds offices*' [online], 5 August. Available at: www.savills.co.uk/research_articles/229130/287329-0 [accessed 25 August 2019]

Occupational overview

- The outlook for the Leeds office market – 2019 and beyond

- Leeds has seen the best first half take-up figures since 2013, with take-up reaching 436,312 sq. ft. This was 41% above the same period in 2018 and 62% above the long-term fall-year average. Occupiers have shown a strong bias towards Grade A space with 74% being Grade A.
- Key deals in the first half of 2019 include 71,000 sq. ft to Link Asset Services at Central Square, and sky Betting & Gaming taking 135,000 sq. ft at 4 Wellington Place.
- However, Leeds's office market is one constricted by tight supply. Total supply currently stands at 700,000sq ft, the lowest on record. However, what really stands out is the severe shortage of Grade A supply.
- There has been a 49% decrease in Grade A supply over the last we months (see publication date) with only eight months' worth of Grade A supply currently available. Buildings such as 7 Park Row and Platform are now largely let, which leaves very limited Grade A space. Going forward, enquiries over 50,000 sq. ft will require occupiers to commit to pre-let agreements.
- Although the next two years will see 250,000 sq. ft come into the supply figures, 63% of this space is already pre-let, demonstrating the demand for premium space in the market.

- The new development, 4 Wellington Place (135,000 sq. ft), which is due to complete in October 2020, has fully let pre-completion. With only 38,000 sq. ft left at Majestic (completion Q1 2020), 34 Boar Lane (56,000 sq. ft) is the only building currently available in its entirety.
- Although Leeds has the potential to attract large-scale relocations, the city will need the right product, in the form of new large Grade A buildings, if it is to compete with other regional cities.
- During the first half of 2019, top rents remained at £30 per sq. ft, which was reflected in the 135,000 sq. ft letting at 4 Wellington Place. However, we expect to see a growth of 7%, as top rents hit £32.00 per sq. ft by the end of the year and £32.50 per sq. ft on new space in the development pipeline.
- The out-of-town market follows a similar story with extremely limited Grade A supply. The market has had a subdued first half to 2019, ending the half year at 105,000 sq. ft, down 60% on the same time in 2018.
- However, this is very much a supply rather than demand issue. The only development is Lumina, a 35,000 sq. ft building at Thorpe Park, which is already half let pre-construction. With this lack of Grade A space, there is very strong interest in pre-lets on the next phase of the scheme.
- Due to lack of supply, rents continue to increase in prime space in the out-of-town market, with 19% growth over the last 203 years from £19.50-£23.25 per sq. ft.

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

Source: Bailet C (2019), 'Publication: *Spotlight: Leeds offices*' [online], 5 August. Available at: www.savills.co.uk/research_articles/229130/287329-0 [accessed 25 August 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 August 2019]

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Rural Research

Publication | Spotlight: Game & Conservation Benchmarking 2019

Abstract

- The Savills Game and Conservation Benchmarking survey produced in conjunction with the Game & Wildlife Conservation Trust uniquely focuses on the economic and environmental performance of driven game shoots. The 2018/2019 season results are based upon data from 88 UK shoots. Collectively they shot more than 1,800 days, put down more than one million birds and employed 150 full or part-time staff, generating a turnover of over £8.5 million. Recognising that the objectives, structures and sizes of shoots are diverse, we have designed our benchmarking survey and report to make sure it is relevant to all types of shoot.

Articles within this publication incl.

- Habitat creation and management, and
- Financial pressures.

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

Teanby A (2019), Research and articles, Publication: '*Spotlight: Game & Conservation Benchmarking 2019*' [online], 24 July. Available at: www.savills.co.uk/research_articles/229130/281784-0 [accessed 25 August 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 August 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 August 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 (2019) *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 August 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 August 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 August 2019]

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Related Links/Sources 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 -](#)

General Debate on Social Housing [10 June 2019] [online]. Further information is available at:

<https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CDP-2019-0144> [accessed 25 August 2019]

Housebuilding targets [10 June 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CDP-2019-0147> [accessed 25 August 2019]

What next for planning in England? The National Planning Policy Framework [10 June 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8260> [accessed 25 August 2019]

Grenfell Tower Fire: Background [5 June 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8305> [accessed 25 August 2019]

Freehold houses: estate changes [5 June 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8497> [accessed 25 August 2019]

Housing Market: Key Economic Indicators [31 May 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820> [accessed 25 August 2019]

Under Education, 2019 –

Higher education finance statistics [12 June 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN05440> [accessed 25 August 2019]

Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies [10 June 2019] [online]. Further information is available at <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 25 June 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.

Education Funding [3 June 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CDP-2019-0136> [accessed 25 August 2019]

The Post-18 Education Review (the Augar Review) recommendations [31 May 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8577> [accessed 25 August 2019]

Post-16 Special Educational Needs FAQs [17 May 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8561> [accessed 25 August 2019]

Education spending in the UK [10 May 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01078> [accessed 25 August 2019]

Under Energy and environment, 2019 –

Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies [10 June 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 25 August 2019].

Brexit Glossary [5 June 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7840> [accessed 25 August 2019]

Development in Wind Power [23 May 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/POST-PN-0602> [accessed 25 August 2019]

Plastic Waste [22 May 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8515> [accessed 25 August 2019]

Brexit and air quality [21 May 2019]. Further information is available at:

<https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8195> [accessed 25 August 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 August 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 [19 August 2019](#), Policy latest incl.

- **CIOB response to the Building a Safer Future: Proposals for reform of the building safety regulator consultation** (see below),
- **Press Release: Combined Action Needed to Tackle Severe Skills Shortages** (see below), and
- **Construction and the Modern Slavery Act: Tackling Exploitation in the UK** (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 August 2019]

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CIOB response to the Building a Safer Future: Proposals for reform of the building safety regulatory system consultation

The Chartered Institute of Building (CIOB) has responded to the Ministry of Housing, Communities & Local Government (MHCLG) 'Building a Safer Future: Proposals for reform of the building safety regulatory system' consultation. A full copy of the responded can be accessed via the below mentioned source web-link. Further information is also available at

Source: CIOB (2019), 'CIOB response to the Building a Safer Future: Proposals for reform of the building safety regulator consultation' [online], CIOB Policy & Public Affairs Portal. Available at: <https://policy.ciob.org/> [accessed 25 August 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 August 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 August 2019]

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

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Apprenticeships –

Apprenticeships start rise for first time since levy launch

- Apprenticeship starts have risen for the first time since the introduction of the apprenticeship levy in April 2017, the latest figures show (see publication date).

There was a total of 225,800 apprenticeship starts between August 2018 and January 2019, an increase of nearly 10% on the same period a year before.

However, the figure was still below the number of starts registered before the levy, with 269,000 in 2016/17 and 264,600 in 2015/16.

The figures cover all types of apprenticeships and were not broken down to show how the number of apprenticeships starts in the construction industry has changed.

The Department of Education said that companies taking part in the apprenticeship levy had two years to spend their funds and that as the system became more established, the number of apprenticeships starts being reported was likely to change further.

For further information, please visit:

Source: Gerrard N (2019) 'Apprenticeships start rise for first time since levy launch', *Construction Manager* [online], 29 March. Available at: www.constructionmanagemagazine.com/news/apprenticeships-starts-rise-first-time-levy-launch/ [accessed 25 August 2019]

Related links:

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 August 2019]

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

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Further 'Apprenticeship-related' links:

Guidance – Apprenticeship funding: how it works

- Changes to the apprenticeship funding system

The Government are making changes to the way apprenticeship funding works, including:

- **Introducing the apprenticeship levy**
- **Introducing the apprenticeship service** – this is an online service that allows employers to choose and pay for apprenticeship training more easily
- **Introducing a new ‘co-investment’ rate to support employers who don’t pay the levy** (‘co-investment’ is when employers and government share the cost of training and assessing apprentices)

Apprenticeships are a devolved policy. This means that authorities in each of the UK nations manage their own apprenticeship programmes, including how funding is spent on apprenticeship training.

[Click here](#) to read ‘**Apprenticeship funding from May 2017**’ for full details of what’s changing.

Further information is available at:

GOV.UK, Education & Skills Funding Agency (2019) Guidance: ‘Apprenticeship funding: how it works’, GOV.UK [online], **Updated 13 March 2019**. Available at: www.gov.uk/government/publications/apprenticeship-levy-how-it-will-work/apprenticeship-levy-how-it-will-work [accessed 25 August 2019]

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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 25 August 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 August 2019]

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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 August 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 18 July 2019) on

- Auction theory – Avoiding 'winner's curse' and other useful info.
- **BIM – Interfacing with facilities management**
- Fire detection – Developing test methods
- Social housing – Waiting for a new deal ... but will funding materialise?
- Masterplanning – RSHP celebrates competition win in Paris.
- Industry roles – All about approved inspectors.
- **Conservation in Germany – Whilst apparently confusing, German conservation is actually not that different.**
- ***Municipal dreams: The rise and fall of council housing.* Book review.**
- Heating – Drivers of change in global heating markets.
- **Wood – 11 interesting facts about the use and nature of the material.**
- Infrastructure – Will politicians ultimately fail to tackle Britain's structural challenges?
- Assurance – How self-certification can save time and money.
- **Fire safety – CIBSE updates Fire Safety Engineering guidance.**
- Water performance – EA finds England's water companies are simply unacceptable.
- **Buildings – 1 Undershaft will be the City's tallest skyscraper**
- **Creative planning – Building Better, Building Beautiful Commission's interim report published.**
- Big Data – Creating a safer world through better use of data.
- **Construction management – Acceleration of construction works.**
- **CEEQUAL version 6 – The CEEQUAL and BREEAM Infrastructure methodologies merge.**
- **Brexit and heritage research – Funding for future research programmes remains uncertain.**
- **Building services – French air-con market to soar to new levels.**

This month also contains **news** (as of 18 July 2019) from the following organisations and online journals incl.

- Construction Manager, July 16 – Foster's 'tulip' tower vetoed by London mayor.
- CIAT, July 16 – AT Awards' Practice finalists announced.
- The Guardian, July 17 – Today's renting Millennials may be homeless when they retire.
- **Infrastructure, July 15 – Government plans electric car charge points in all future homes.**
- BRE Group, July 15 – New non-executive director joins BRE.
- Institution of Civil Engineers, July 16 – Planning applications can be delayed by SuDs design, says report.
- BRE, July 16 – BRE begins video flame and smoke detector research programme.
- **GOV.UK, July 16 – HS2 reveals automated people-mover scheme.**
- **Construction Manager, July 15 – Scottish government tightens cladding fire safety (see further information above).**
- **Institution of Civil Engineers, July 15 – ICE-funded research on UN SDGs wins top prize.**
- BSRIA, July 15 – World heat-pump market study published by BSRIA.
- **Dezeen, July 14 – Bricks made from loofah and charcoal could promote biodiversity.**
- RSHP, July 12 – RSHP wins Ville de Paris comp for Montparnasse Masterplan.
- **ICE, July 12 – NEC used to deliver UK's first proton beam centre.**

- **Construction Manager, July 11 – Council to remove tower cladding amid fire safety fears (see further information above).**
- GCR, July 11 – Oz consortium probes close measurement of infrastructure by satellite.
- **RICS, July 11 – Housing market sees rise in new buyer demand (see further information above).**
- Dezeen, July 9 – Crisis in architectural education, says Schumacher.
- CIOB, July 10 – CIOB members invited to become part-time judges.
- **Construction Manager, July 10 – Construction output recovers after two months of decline.**
- **Infrastructure intelligence, July 10 – EFCA launches guidelines on implementing ISO standard BIM.**
- CIAT, July 9 – Architectural Technologist of the Year finalists announced.

‘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 August 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
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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 www.designingbuildings.co.uk/wiki/Most_popular_articles_in_each_subject_area [accessed 25 August 2019]

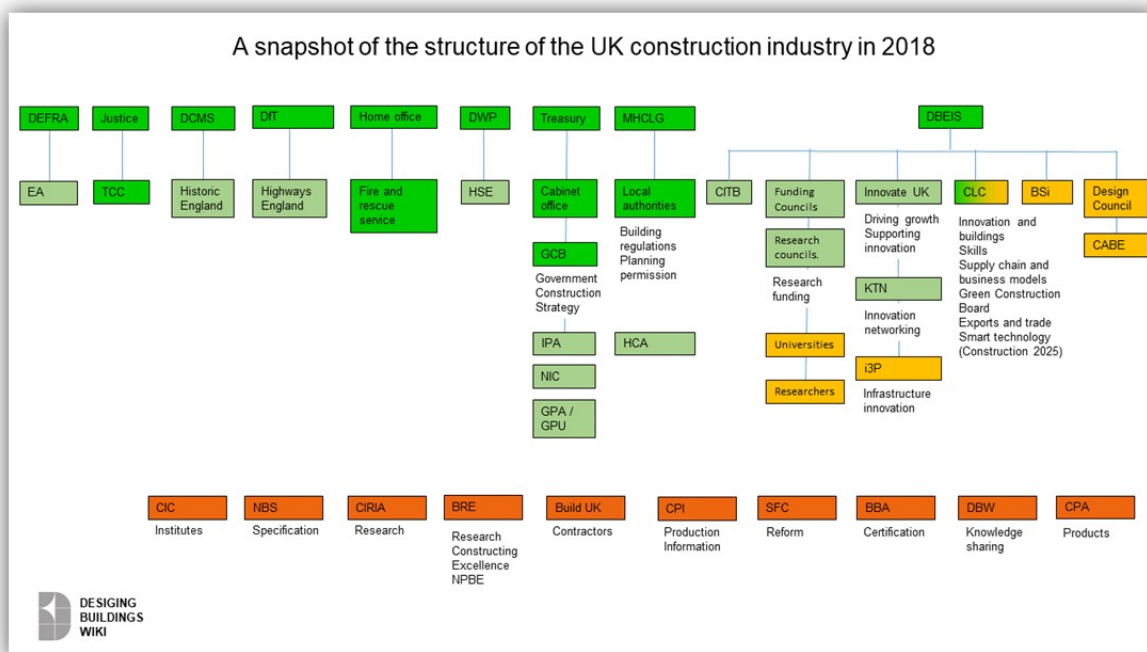
Related Link:

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 www.designingbuildings.co.uk/wiki/Types_of_drawings_for_building_design [accessed 25 August 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 26 August 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 August 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 August 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 August 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 August 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 Wikis 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 07/2019 July Edition*

- *CIS Insight* (07/2019 Edition) –

This month's *Insight* focuses on 'Working with gas. A brief exploration of types, history, safety and legislation'

- Types of gas we use and their history
- Gas Safe Register and Liquid Gas UK

- Current legislation and guidance

Abstract

In this article, *CIS Insight* talk about the types of gas Parliament legislates in order to protect the public interest and ensure building works meet a specified level of safety and quality. This article explore their history, touch on safety and point you to current legislation and guidance.

Subject terms / keywords covered incl.

- Natural (fossil) gas
- Mains gas
- Liquefied petroleum gas (LPG)
- BioLPG
- Installation
- Carbon monoxide (CO) poisoning
- Legislation

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

Source: NBS (2019), The Construction Information Service (CIS) – *Insight 07/2019*: ‘Working with gas. A brief exploration of types, history, safety and legislation’, NBS [online]. Further information available at: www.thenbs.com/knowledge/working-with-gas-a-brief-exploration-of-types-history-safety-and-legislation?scl=01MzUzQzlwMDUtNzEyNi00RDZBLTg2NEltNTQzNTAxOTg4Nzk0XzYzNzAwODcxMTIxMjc3NzUyMg%3d%3d [accessed 25 August 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.

Smith Institute website [online]. Further information is available at: www.smith-institute.org.uk/ [accessed 25 August 2019]



www.facebook.com/pages/The-Smith-Institute/251600568286?v=wall [accessed 25 August 2019]



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



on The Smith Institute’s website [online] and available @ [www.smith-](http://www.smith-institute.org.uk/?page_id=66)

[institute.org.uk/?page_id=66](http://www.smith-institute.org.uk/?page_id=66) [accessed 25 August 2019]

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Latest Research from The Smith Institute incl.

The unspoken decline of outer London – Why is poverty and inequality increasing in outer London and what needs to change?

This report by the Institute’s deputy director, Paul Hunter, follows on from previous research by Paul on poverty in suburbia and on housing and low pay in London. It also complements the excellent London Poverty Profile by the Trust for London, as well other studies on poverty and inequality in London by the GLA, JRF and the London Fairness Commission. What is distinctive about this report is the focus on understanding the extent to which poverty and inequality have worsened in outer London in recent years, especially relative to inner London.

Paul provides a critique of agglomeration theory and so-called ‘city centralism’ that dominates the current policy landscape around economic development. Whilst acknowledging the benefits this approach has brought, he carefully documents the downsides for those on low incomes in outer London boroughs. His detailed statistical analysis is enriched with insights gathered from focus group discussions with low-income residents from outer London as well as interviews and meetings with experts and key stakeholders. This blend of data, information

and opinion underpins Paul's agenda for change, which is presented in the final section of the report in the form of a series of policy recommendations and ideas to rebalance London's economy.

In presenting a range of possible solutions mostly directed at the London Mayor and outer London boroughs, Paul hopes to provoke a broader debate around the challenges facing outer London (and London as a whole). Some of the proposals, such as redirecting the funding for Crossrail 2, are highly controversial, others, such as promoting the London Living Wage, are widely supported. What matters that they challenge the status quo and seek to counter rising poverty and inequality in outer London.

London is now entering a new era and its leaders will need to plan ahead carefully to deliver the shared prosperity its citizens want. A poorer and more detailed city, with an ever-widening gap between a wealthier inner London and a poorer outer London is not an option. As this report argues, renewed efforts are required to secure inclusive and sustainable growth across all London's boroughs – not a displacement from one area to another.

Further information and access to the series incl.: **All Reports, Economy & local growth, Housing, World of work.** Tagged with: **2018**

Hunter P (2019), '*The unspoken decline of outer London: Why is poverty and inequality increasing in outer London and what needs to change?*' [online]. Further information is available at: www.smith-institute.org.uk/book/the-unspoken-decline-of-outer-london-why-is-poverty-and-inequality-increasing-in-outer-london-and-what-needs-to-change/ [accessed 25 August 2019]

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

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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 August 2019]

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

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

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National Trust (NT), a charity that works to preserve and protect historic places and spaces – for ever for everyone

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 (2019) NT [online] and available @ www.nationaltrust.org.uk/ [accessed 25 June 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 Incl. (as at 25 June 2019)

- **Brexit and the future of farming**
- **Phasing out single use plastics** (further information is provided in the Sustainability Hub)
- **NT response to major HS2 consultation,**
- **Stonehenge A303 Road Improvement Scheme,**

and more.

Further information is available at:

Source: The National Trust (2019), 'Our views' [online]. Further information is available at: www.nationaltrust.org.uk/our-views [accessed 25 August 2019]

Planning and Infrastructure

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 (2019), *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 August 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 (2019), *Our planning principles* [online] and further information is available @ www.nationaltrust.org.uk/features/our-planning-principles [accessed 25 August 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 clear 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 (2019), *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 August 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 (2019), *Planning at a national level* [online] and further information is available @ www.nationaltrust.org.uk/features/planning-at-a-national-level [accessed 25 August 2019]

&

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 (2019), *Planning at a local level* [online] and further information is available @ www.nationaltrust.org.uk/features/planning-at-a-local-level [accessed 25 August 2019]

Related links:

GOV.UK, Ministry of Housing, Communities and Local Government (2016), Collection: 'Planning practice guidance', GOV.UK [online], **Last updated May 2019**. Available at: www.gov.uk/government/collections/planning-practice-guidance [accessed 25 August 2019]

GOV.UK, Ministry of Housing, Communities and Local Government (2012), Policy Paper: National Planning Policy Framework, GOV.UK [online], **Last updated February 2019**. Available at: www.gov.uk/government/publications/national-planning-policy-framework--2 [accessed 25 August 2019]

Further information is available at:



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



www.facebook.com/nationaltrust [accessed 25 August 2019],



www.youtube.com/user/nationaltrustcharity/ [accessed 25 August 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 August 2019] and www.revocommunity.org/insights [accessed 25 August 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 August 2019]



<https://twitter.com/FosterPartners> [accessed 25 August 2019],



www.facebook.com/fosterpartners [accessed 25 August 2019],



www.linkedin.com/company/foster-&-partners [accessed 25 August 2019],



www.youtube.com/user/FOSTERANDPARTNERS1 [accessed 25 August 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), 3 August 2016, 'What is Building Information Modelling (BIM)?' **theNBS.com** website [online]. Further information is available at www.thenbs.com/knowledge/what-is-building-information-modelling-bim [accessed 25 August 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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Step-by-step guide to using BIM on projects



This step-by-step guide explains how level 2 building information modelling (BIM) can be used for the development of a built asset such as a new building. Level 2 BIM is required as a minimum on centrally-procured public projects in the UK and is commonly used on private-sector projects.

This guide is written for us by people who are not BIM experts and will be helpful for employers, consultants, contractors and suppliers. To help understand BIM, a glossary of BIM terminology is provided along with a wide selection of supporting articles.

Projects that incorporate level 2 BIM identify the decisions that will need to be made throughout the life of a built asset and the information deliverables required at each stage of the project to support those decisions. This ensures that appropriate information is created and shared in a suitable format at the right time so that better decisions can be made throughout the delivery and operation of built assets.

Information deliverables include model files, documents and structured data files containing information about the facility, floors, spaces, systems and components. Together these create a digital replica of the built asset that starts by representing design intent and matures by the time handover occurs to reflect what has actually been built and installed.

The guide shows how level 2 BIM can be incorporated into to a project following the RIBA plan of work 2013 stages. The first two stages have been broken down into sub-sections where important employer decisions have been identified that are not included within the RIBA plan or work.

The end of each stage is marked by an employer's decision point, or gateway, at which the employer needs specific information to help them decide whether the project has developed satisfactory and whether it should continue to the next stage.

The guide is aligned to PAS 1192-2, the standard for level 2 BIM in the capital/delivery phase of construction projects in accordance with the other information management industry standards such as BS1192:2007, BB1192:4 and PAS1192:5.

Further information provided via the below-mentioned source link to the following:

Stage 0: Strategic definition

- 0a: Business justification
- 0b: Strategic brief

Stage 1: Preparation and brief

- 1a: Appraisals
- 1b: Brief and information requirements
- 1c: Supplier appointments

Stage 2: Concept design

Stage 3: Developed design

Stage 4: Technical design

Stage 5: Construction

Stage 6: Handover and close out

Stage 7: In use

For further information, please visit:

PCSG (2019) 'Step-by-step guide to using BIM on projects', Designing Buildings Wiki [online] Last edited 5 April. Available at: https://www.designingbuildings.co.uk/wiki/Step-by-step_guide_to_using_BIM_on_projects [accessed 25 August 2019]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wikis 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 August 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 August 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 August 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 August 2019]

The NBS, NBS TV – Design & Specification [online]. Further information and additional programmes are available at: www.thenbs.com/knowledge/design-specification [accessed 25 August 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 August 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 August 2019]

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[NBS National Building Information Modelling \(BIM\) Survey 2019](#) free to download –



Source: www.thenbs.com

- 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 August 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 August 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 August 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 August 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 August 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 August 2019]

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Latest News on BIM -

[BIM Execution Framework for early-stage estimating in PPP projects](#)

- The use of Public Private Partnerships [PPP] as the vehicle to procure large-scale social and physical infrastructure projects is becoming increasingly deployed around the globe.

This international study evaluates the use of PPP procurement in the UK, Australia and China as three of the most mature and rapidly developing users of the PPP procurement route.

It focuses on the ways of improving digitalisation in PPP procurement with the use of Building Information Modelling (BIM) and its impact on early-stage estimating. This research aims at developing an execution framework for BIM-enabled early-stage estimating for PPP procured projects, learning from the situations in these three most advanced user countries.

The expectation is that such a framework will also help the rapidly developing countries, who are increasingly reliant of PPP types of procurement.

Further information is available at:

Source: RICS (2019) 'BIM Execution Framework for early-stage estimating in PPP projects' [online]. Available at: www.rics.org/uk/news-insight/research/research-reports/bim-execution-framework-for-early-stage-estimating-in-ppp-projects/ [accessed 25 August 2019]

Related Links:

Winfield M, Croft A and Gibbs Dr D-J (2019) 'The new JCT practice note on BIM: the how and why' [online].

Available at: www.bimplus.co.uk/news/planradar-project-management-software-launches-uk/ [accessed 25 August 2019]

- 1) Winfield M, Croft A and Gibbs Dr D-J (2019) 'The new JCT practice note on BIM: the how and why' [online]. Available at: www.bimplus.co.uk/news/planradar-project-management-software-launches-uk/ [accessed 25 August 2019]
- 2) BIM+ Staff (2019) 'PlanRadar project management software launches in UK' [online]. Available at: www.bimplus.co.uk/news/planradar-project-management-software-launches-uk/ [accessed 25 August 2019]
- 3) Cousins S, BIM+ Staff (2019) 'Blockchain pilot could unlock shared home ownership', Chartered Institute of Building (CIOB) website [online] 24 March. Further information is available at: <http://www.bimplus.co.uk/projects/case-study-battersea-power-station-phase-3a-4d-mod/> [accessed 25 August 2019]
- 4) Cousins, S, BIM+ Staff (2019) 'Case study: Battersea Power Station – 4D models ensure risk-free sequencing', Chartered Institute of Building (CIOB) website [online] 6 March. Further information is available at: <http://www.bimplus.co.uk/projects/case-study-battersea-power-station-phase-3a-4d-mod/> [accessed 25 August 2019]
- 5) CM staff (2019) '**New international BIM standard launched**', *Construction Manager* [online], 22 January. Available at: www.constructionmanagemagazine.com/news/new-international-bim-standard-launched/ [accessed 25 August 2019]
- 6) CDBB (2018) 'Centre for Digital Built Britain (CDBB) Year one Report: Towards a digital built Britain' [online]. Available at: www.cdbs.cam.ac.uk/news/2018CDBBYear1Report [accessed 25 August 2019]
- 7) 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 August 2019]
- 8) 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 August 2019]

- 9) 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 August 2019]
- 10) 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 August 2019]

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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 August 2019]

For further information, please visit **Taylor & Francis online, FREE-to-view compilations** [accessed 25 August 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_3r_f_8cm_3pla_rf2v15_bls15_x_plan [accessed 25 August 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 August 2019]

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RICS Library services and e-Resources



Source: UCEM (2019)

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 August 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

You have access to  **Emerald eJournals** [Click here](#) to start searching the database **NOW**

Top searching tips from *Lucy* the Librarian –

NOTE: For the above link to work you must ensure that you are in the **VLE e-Library**, have clicked the **Library login** and have your **Athens** account open. Once you are in Athens open, select **Emerald Insight** from the **Resources** listed.

In addition to this please 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.

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& finally

Shortlist for the 2019 RIBA Stirling Prize Announced

- On 18 July 2019, six projects were shortlisted for the coveted 2019 Stirling Prize: awarded to the **UK's best new building**.

The Royal Institute of British Architects (RIBA) Stirling Prize, sponsored by Almacanter, is judged against a range of criteria including design vision; innovation and originality; capacity to stimulate, engage and delight occupations and visitors; accessibility and sustainability; how fit the building is for its purpose and the level of client satisfaction.

In 2018 the RIBA Prize was awarded to Bloomberg, designed by Foster + Partners.

RIBA has whittled down its original list of this year's 54 national award-winning buildings to a shortlist of six from which one will be selected as recipient of the RIBA Stirling Prize for 2019. The award recognises the UK's best new building according to the professional body for architects.

Judged against a range of criteria, from innovation to engagement to sustainability, the shortlist is as follows:

- [Corkhouse](#)
- [Goldsmith Street](#)
- [London Bridge Station](#)
- [The Macallan Distillery and Visitor Experience](#)
- [Nevill Holt Opera](#)
- [The Weston, Yorkshire Sculpture Park](#)

[Websites correct as at 25 August 2019]

It's well worth reading more on them and understanding the thinking behind their nominations.

What's your favourite? The 2019 winner will be announced on 8 October so you won't have long to see if the panel agree!

For further information, please visit:

RIBA (2019) 'RIBA Stirling Prize 2019 – The shortlist for the 2019 Stirling Prize has been announced', RIBA [online]. Available at: www.architecture.com/awards-and-competitions-landing-page/awards/riba-stirling-prize [accessed 25 August 2019]

RIBA International Prize 2020

The Royal Institute of British Architects (RIBA) have opened the **RIBA International Awards for 2020** to "celebrate buildings that change the world". They are diverse, highly respected awards judged by international experts in their field, including architects and non-architects. Architects are able to enter for The RIBA International Awards for Excellence, The Emerging Architect Prize or the RIBA International Prize.

These awards are open to any qualified architect and celebrate small, limited projects as well as larger scale projects. The Grand Jury for the 2020 RIBA International Awards is by the French Architect and planner, Odile Decq.

Winners of these awards gain global peer and industry recognition with high-profile exposure through RIBA's channels, local, national and international media. The judging is rigorous, and winners show a certain standard of excellence and architecture heritage.

Further information is available at:

RIBA (2019) 'RIBA International Awards', RIBA [online]. Available at: www.architecture.com/awards-and-competitions-landing-page/awards/riba-international-awards [accessed 25 August 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 398**, 18 July 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

Please note: *Heritage Update* is reviewed monthly within *Knowledge Foundations* and can be found in the 'e-Journal Review' section.

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Property and Construction Statistics

RICS Economy and Property Market Chart Book – Q2 2019

- Economy will struggle for momentum until Brexit is sorted

The impasse around Brexit continues to cloud the macro environment even though headline growth in the first quarter of the year proved more resilient than anticipated. Before drawing too much comfort from this, it is worth bearing in mind that a good slug of the uplift was related to stock building as fears heightened that the country might leave the EU without a deal at the end of March. More significantly, the data continues to draw attention to the unbalanced response of the economy to current events.

Uncertainty slows activity in commercial real estate – Figures from Property Data suggest that investment in the commercial real estate market slipped to the £10bn mark during Q1. This compares with more than £13bn in the same period of 2018 and an average of around £16.5bn in the subsequent three quarters.

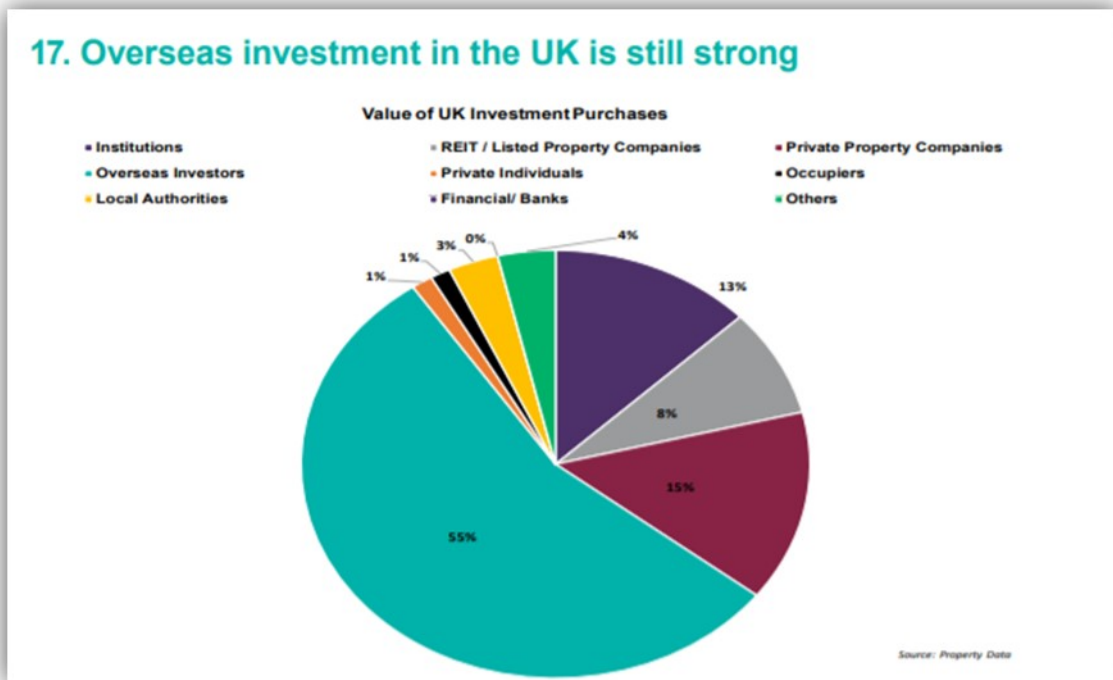
The Q1 RICS Commercial Property Survey also reflected this more cautious tone. Although the headline numbers were generally fairly flat, this continues to mask significant divergences in feedback across sectors. Whilst industrials, in general, are eliciting positive feedback, the story in retail is predictably much more downbeat. And not surprisingly, the pain in the latter is particularly acute in secondary locations; results on expectations from the survey point to rents falling in this part of the commercial market by a further 7% over the next twelve months (see publication date).

Construction workloads being led by housing – Workloads still appears to be growing according to the Q1 RICS Construction and Infrastructure Survey, but this is largely due to a positive trend in the residential sector. Developers have turned a little more cautious and are noting rising costs as a challenge, but nevertheless, continue to see opportunities in the market given the commitment to address the housing crisis. The emphasis on trying to encourage the SMR sector continues with the recent launch of a new loan guarantee scheme.

Source: RICS (2019), Knowledge, RICS Market Surveys – *RICS UK Chart Book and Survey Market Updates, Q2 2019*, RICS, London [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-chart-book/ [accessed 25 August 2019].

Chart 17 – Commercial Property Sector - Overseas investment in the UK is still strong

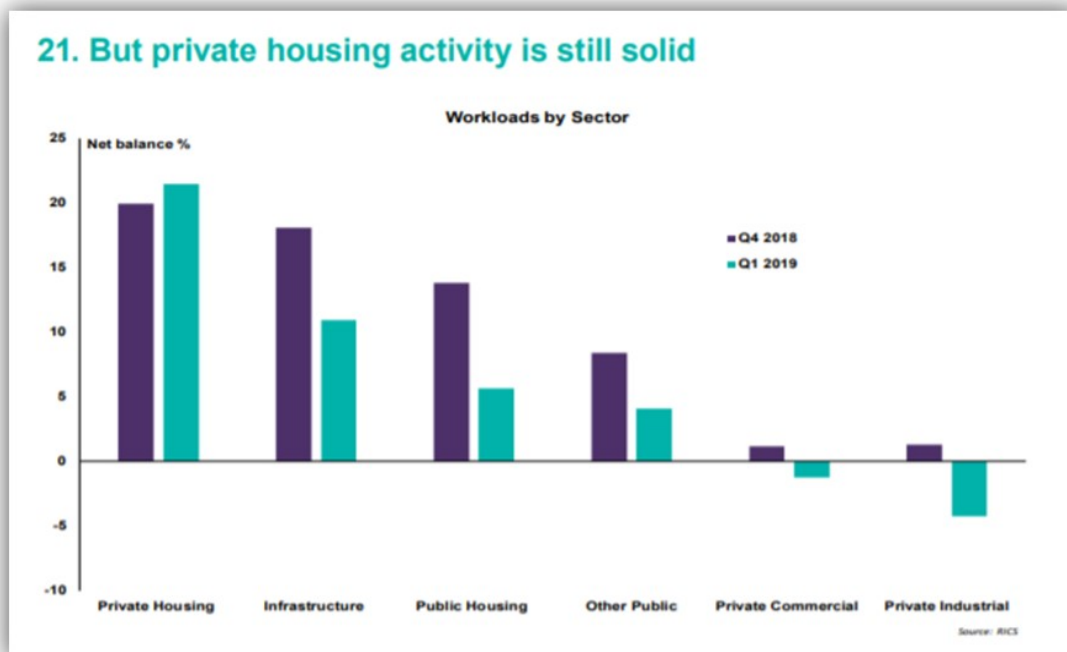
- Despite Brexit concerns, Property Data estimates that net investment into the UK by overseas investors reached more than £3 billion in Q1 2019, up from £1.1 billion in the previous quarter. Consequently, overseas investment made up more than half of the total value of investment purchases in Q1 (see Chart 17 below).



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q2, 2019), page 10

Chart 21 – Construction sector – Private housing activity is still solid

- Still behind the headline figures, the RICS survey suggest that workloads across the private housing sector are continuing to rise, outstripping all other segments of the industry. Indeed, a new balance of +21% in the latest survey is close to the average of the past two years suggesting that activity remains solid in this area (see Chart 21 below)



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q2, 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 June 2019]

These include:

- **UK Residential Market Survey.** **Note: The latest survey, dated June 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. **Latest – Housing Market forecast: 2019**
- 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 (Q2 2019), please see above.**
- **UK Commercial Market Survey – a leading indicator of developments in the UK commercial property occupier and investor markets.** **Latest - Q1 2019**
- UK Construction and Infrastructure Survey – the leading sentiment indicator of the UK construction and infrastructure markets. **Latest - Q1 2019**

RICS (2019), Research, Market Surveys [online], London: RICS. Available at: www.rics.org/uk/news-insight/research/market-surveys/ [accessed 25 August 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 latest set of results (covering June 2019) for the RICS UK Residential Survey are consistent with a somewhat stable trend beginning to emerge. Although much of the anecdotal commentary remains a little downbeat, contributors actually reported (in net balance terms) a very modest rise in buyer demand whilst new instructions to sell have also held steady over the month. In line with is, the Newly Agreed Sales series just about edged into positive territory for the first time this year (see publication date). Notably, although forward looking metrics suggest the picture is unlikely to change materially over the coming three months, momentum is a little more upbeat at the twelve-month time horizon.

June 2019: UK Residential Market Survey

Steadier market in June

- Buyer enquiries edge upwards over the month after significant declines in the early part of the year,

- Twelve month expectations point to a pick-up in sales volumes and prices,
- Majority view the build price premium to currently be between 5 and 10%.

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, June 2019 [online] and available @ www.rics.org/uk/news-insight/research/market-surveys/uk-residential-market-survey/ [accessed 25 August 2019]

RICS.org.uk www.rics.org/uk/ [accessed 25 August 2019]



<https://twitter.com/RICSNews> [accessed 25 August 2019]



www.facebook.com/ricssurveyors [accessed 25 August 2019]



www.linkedin.com/groups?gid=88902 [accessed 25 August 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 August 2019]

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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 August 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 August 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 (2019), Business, industry and trade, Construction industry [online] and available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 25 August 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 August 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: May 2019](#)

Contents incl.

(i) Main points; (ii) Things you need to know about this release; (iii) Construction output in May 2019; (iv) Detailed growth rates; (v) Revisions; (vi) Links to related statistics; (vii) Other useful links; (viii) Quality and methodology; (ix) Construction statistics engagement and development.

What's in the bulletin?

- Construction output growth was flat (0.0%) in the three-month on three-month all work series in May 2019; this was because of a fall in repair and maintenance of 0.5% being offset by a 0.3% increase in new work.
- In new work, the increase in the three-month on three month series in May 2019 was driven by growth in private commercial new work and public new housing, which saw growths of 2.2% and 8.4% respectively.
- In repair and maintenance, the decrease in the three-month series in May 2019 was because of declines in both private and public housing repair and maintenance, which decreased by 2.5% and 3.2% respectively.

Office for National Statistics (2019), Construction Industry, *Construction output in Great Britain: May 2019* [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 25 August 2019],

www.ons.gov.uk/businessindustryandtrade/constructionindustry/datasets/outputintheconstructionindustry [accessed 25 August 2019], and

www.ons.gov.uk/businessindustryandtrade/constructionindustry/bulletins/constructionoutputingreatbritain/may2019 [accessed 25 August 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 July 2014 to March 2019, UK, 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/shorttermindicatoreconomiccommentary/june2018 [accessed 25 August 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 August 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 August 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 August 2019]

Office for National Statistics (ONS), Construction Statistics Articles [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases [accessed 25 August 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 August 2019].

Office for National Statistics (ONS) website [online]. Further information is available at: www.ons.gov.uk/ons/index.html [accessed 25 August 2019]



<https://twitter.com/ONS> [accessed 25 August 2019],



www.facebook.com/ONS [accessed 25 August 2019],



www.linkedin.com/company/office-for-national-statistics [accessed 25 August 2019],

ONS, Browse by Theme [online] and available @ www.ons.gov.uk/ons/browse-by-theme/index.html [accessed 25 August 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 August 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 August 2019]

HSE, *About us* [online] and further information is available at: www.hse.gov.uk/aboutus/insidehse.htm [accessed 25 August 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 August 2019]

- The article will describe the improvements that have been incorporated into the Construction output statistics, as part of the 2017 Blue Book, and show the impact of the changes. These incorporate a seasonal adjustment review, nominal data revisions and improvements to the Construction Output Price Indices.

Related Links:

GOV.UK, Department for Business, Innovation and Skills (2013)), Collection: 'Construction Statistics', GOV.UK [online]. Further information and web links provided @ www.gov.uk/government/collections/construction-statistics [accessed 25 August 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 August 2019]

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e-Journal Review

RICS **Modus** Digital Magazine – July 2019: [The Precision Issue](#)

- Data is the currency of the surveyor – and it's changing before our eyes as advances in how we capture, report and analyse data change what it is to be a member of the profession. And so fast is the change, it's hard to keep track of where it's all headed.

So in this edition's ambitious bumper lead feature, composed of Q&A interviews, company profiles and opinions, MODUS pull together 20 of the most exciting ideas, innovations, trends and influencers at the forefront of this data revolution.

Also, this issue

- MODUS convene a panel of experts to discuss the cultural challenges that this new world of data – continually forming in real time, and in gigantic quantities – presents. Who owns asset data? What skills do professionals need to handle it all? And are we ready to embrace a culture of collaboration required to take full advantage of the opportunities?
- And MODUS pay a visit to a city that already is taking advantage of the opportunities presented by big data: Bristol, where a series of flagship initiatives are leading the way in open data access, energy innovation and community engagement. MODUS finds out how the progress made by the UK's leading smart city could transform the way we use cities in the future.

This digital magazine can be accessed by following the above-mentioned web link.

Modus contains regulations sections on **Intelligence / Experience / Features**

Intelligence

- **Deconstructed** / Could we ever grow enough food in cities to support their population
- **Opinion** / Mandy St John Davey on tackling unconscious bias in the workplace
- **Chartered territory** / How can we regulate the proptech sector without stifling innovation?

Experience

- **Way to go** / Copronet co-founder and COO Emma Stapleton FRICS
- **What if ...** / Is blockchain the future of real estate transactions?

This issues main features include:

- **The big data 20** / Built environment meets big data in our special feature profiling 20 of the hottest prospects in proptech
- **Welcome to the city of the future** / Bristol is democratising data to enable its residents to contribute to its future. What could others learn from its approach?
- **Whose data is it anyway?** / Collaboration is key if the industry is to fully exploit the vast quantities of data now at our fingertips. But are we ready to share?

Royal Institution of Chartered Surveyors (RICS), Oliver Parsons, Editor of Modus, *Modus*, June 2019 – Modus: The Safe Issue [online], RICS, Knowledge, Journals. Available at:

www.rics.org/uk/news-insight/publications/modus/ [accessed 25 August 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 August 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 August 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 August 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 August 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 August 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 – **facilitate** July 2019: the latest issue

facilitate 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.

The latest workplace and facilities management news, covering professional development, the outsourced service sector, market analysis, legislation and key business reports.

In this latest issue,

Facilitate Industry News:

- Property and real estate workers most likely to quit job to flee boss
- More than half of workers ‘suffer from burnout over summer’
- IWFM Market Outlook 2019 shows “mixed views” on industry
- Apprenticeship levy ‘should be reformed’

- Office take-up across nine regions rises

Business News:

- ABM UK retinas cleaning contracts in Scotland
- Salisbury secures £1 million of new contracts
- Engie reports revenue growth
- Spie UK strikes deals with Scottish university
- Wilson Vale expands portfolio with IM Group

News analysis:

- APSE urges local authorities to return to in-house services
- A third of workers say bosses fail those with neurodevelopment disorders
- More FM providers could be prosecuted for fire breaches post-Grenfell
- Women’s brains ‘work better in warmer offices’
- An ageing workforce needs support in the workplace

Source: Institute of Workplace and Facilities Management (IWFM), formerly BIFM (2019), *facilitate*, News, 1st, 12th and 31st July 2019, facilitatemagazine.com [online]. Further information available at: www.facilitatemagazine.com/news/ [accessed 25 August 2019], London: Redactive Media Group.

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The Heritage Alliance’s latest *‘Heritage Update’* [E-Bulletin](#) – 18 July 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 (18 July 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:

- Share your views on Heritage and Immigration with the Home Office
- British Council & Heritage Alliance Travel grant Scheme – Open for Second Round of Applications
- **#HeritageChat – the latest #HeritageChat will discuss findings from a recently published report on research connections between the heritage sector and higher education institutions.**
- Heritage and The Creative Industries Report Launch Event
- The Heritage Alliance International Event 2019
- Thank you to Heritage Alliance Sponsors Ecclesiastical Insurance / Giving to Heritage
- The Greenwich Foundation for the Old Royal Naval College

News round-up:

- **Michael Gove Urges Action to Tackle Climate Change (see further information below and within the Sustainability Hub)**
- **Government Publishes Interim Report: Creating Space for Beauty (1)**
- Upcoming Changes to Charity Commission Regulation
- **Mayor of London Turns Down Tulip Tower (2)**
- Jodrell Bank Observatory added to UNESCO World Heritage List
- Lottery Sales Limit Raised – But by Less Than Expected
- **The Heritage Index and the Rising Price of Heritage Materials (3 and further information above)**
- The Status of UK Fundraising 2019 – Benchmark Report
- Ecclesiastical Movement for Good Awards
- VisitEngland launch TXGB: A one-stop shop for suppliers in tourism

- **Shortlist for the 2019 RIBA Sterling Prize Announced (4a and further information above)**

Others news

- **All-Party Parliamentary Group on Industrial Heritage**
- **Mapping collaborative interactions between the heritage and higher education sectors (5)**
- Landscape Review: National Parks and Areas of Outstanding Natural Beauty
- Royal Holloway: Re-thinking Indigenous Heritage
- The Decision Maker Panel June 2019 Results Are Out
- **RIBA International Prize 2020 (4b and further information above)**
- Growing Lives: New Grants Programme From All Churches Trust
- New Body Set to 'Tackle Social Injustices'
- **Building the Future**
- Meet the First Three Fellows at West Dean College of Arts
- **Jerwood's New Diversity & Inclusion Toolkit for Arts Employers (6)**
- **Kickstarting the Grimsby Regeneration Project**
- CLA: Importance of Agricultural Land "Cannot be Ignored"
- Big Picnic in Exmoor Marks 70 Years of National Parks

Have your say - Open consultations (incl. Easy access to listed buildings in Wales, Call for evidence on Flooding and Coastal Erosion)

and more.

Source: Heritage Update e-Bulletin [online], Issue **No 398**, 18 July 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

Top searching tips from *Lucy the Librarian* - 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 August 2019]



www.linkedin.com/grp/home?gid=4898001 [accessed 25 August 2019]

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Government Publishes Interim Report: Creating Space for Beauty

The Government has published an interim report on how to promote and increase the use of high-quality design for new build homes and neighbourhoods. In **Creating Space for Beauty**, the Building Better, Building Beautiful Commission sets out the work carried out so far ahead of the final report, which is expected in December 2019. This report will "recommend practical measure to help ensure new housing developments meet the needs and expectations of communities, making them more likely to be welcomed, rather than resisted, by existing communities."

Particularly important for heritage is the Commission's commitment to preserving Britain's heritage through 'planning' and preventing loss. Included in examples of this is the listing of St Pancras Station to prevent its demolition. The potential of heritage to bring about improved well-being, environmental and economic benefits is also mentioned as an important consideration for the Commission.

The report currently highlights the differential VAT treatment of repair and restoration building work as something that should be "harmonised so as not to continue discouraging the repair and reuse of existing

buildings and places". This links to the recommendations the Heritage Alliance set out in their Fiscal Manifesto 2019: **Backing the Bedrock**.

Related Link:

GOV.UK, Ministry of Housing, Communities & Local Government (2019) Independent report: 'Creating space for beauty: interim report of the Building Better, Building Beautiful Commission' [online], 9 July. Available at: www.gov.uk/government/publications/creating-space-for-beauty-interim-report-of-the-building-better-building-beautiful-commission [accessed 25 August 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 398**, 18 July 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

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Mayor of London Turns Down Tulip Tower

In November 2019, Foster and Partners proposed a controversial 305.3 meter tall tower to be built alongside the Gherkin in London in the shape of a tulip.

Earlier this year (2019), the Greater London Authority planners found the tower failed to follow the London Plan for a number of reasons outlined in their report, including "harming" the views of the Tower of London and a proposed entrance fee. The London Plan calls for free access to public areas in tall buildings, and is used as guidance for developments and land use within the capital. The impact of future buildings upon the Tower of London is also considered, particularly with regards to developments that might threaten its UNESCO World Heritage status.

In April, the City of London Corporation gave approval for the tower after several conditions were met, such as restricting ticket sales during peak hours, but Sadiq Khan raised a number of concerns in a London Review Panel Report, some of which echoed the concerns raised by the Greater London Authority Planners. Since this time, Khan has advised CLC planners to reject the proposal for the tower based on the issues highlighted by the panel.

Duncan Wilson, Chief Executive of Historic England, had previously **appealed directly** to the City of London planning committee to reject the Tulip developer's application. Historic England has since stated that they are pleased that the Major recognised the impact the tower would have had on London's skyline and the views of the Tower of London.

Related Link:

Historic England (2019) 'Tulip Tower, City of London', Historic England [online]. Available at: <https://historicengland.org.uk/whats-new/statements/tulip-tower/> [25 August 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 398**, 18 July 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

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The Heritage Index and the Rising Price of Heritage Materials

Ecclesiastical, the UK's leading insurer of Grade I listed buildings, recently announced the provisional results of its buildings index for the first quarter of 2019.

The Ecclesiastical Heritage Building Cost Index rose by 1.2% in the first quarter of 2019 compared to the previous quarter, and by 3.4% year on year. The rising costs of traditional buildings materials, such as handmade brick, hardwood and stone have resulted in this 3.4% annual increase in the reconstruction and repair costs of heritage properties. Stone has seen the largest increase in price, with a 4.4% annual increase in price. Hardwood

products have seen an increase 4.1% annual increase, while handmade bricks have been an annual increase of 3.3%.

The Ecclesiastical Heritage Building Cost Index (EHBCI) is specifically designed to track the costs associated with the reconstruction and repair of traditional properties throughout Britain. Sourcing and sustainability supplies of traditional material such as handmade bricks is essential for the maintenance and repair of historic buildings. The index helps to reduce the risk of underinsurance for owners of traditional properties through the duration of their insurance policy.

It should be noted that the Ecclesiastical Heritage Index continues to track above the General Building Cost Index.

For further information about the Ecclesiastical Heritage Index, please visit

Related Link:

Ecclesiastical Risk Management (2018) 'Ecclesiastical Heritage Index' [online]. Available at: www.ecclesiastical.com/insights/heritage-index/ [accessed 25 August 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 398**, 18 July 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

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Shortlist for the 2019 RIBA Stirling Prize Announced

On 18 July 2019 the six shortlisted sites for the 2019 RIBA Stirling Prize were announced. Judged against a range of criteria, from innovation to engagement to sustainability, the shortlist is as follows:

- **Cork House**
- **Goldsmith Street**
- **London Bridge Station**
- **The Macallan Distillery and Visitor Experience**
- **Nevill Holt Opera**
- **The Weston, Yorkshire Sculpture Park**

Related Link:

RIBA (2019) 'RIBA Stirling Prize 2019' [online]. Available at: www.architecture.com/awards-and-competitions-landing-page/awards/riba-stirling-prize [accessed 8 August 2019]

RIBA International Prize 2020

The Royal Institute of British Architects (RIBA) have opened the **RIBA International Awards for 2020** to "celebrate buildings that change the world". They are diverse, highly respected awards judged by international experts in their field, including architects and non-architects. Architects are able to enter for The RIBA International Awards for Excellence, The Emerging Architect Prize or the RIBA International Prize.

These awards are open to any qualified architect and celebrate small, limited projects as well as larger scale projects. The Grand Jury for the 2020 RIBA International Awards is led by the French Architect and planner, Odile Decq.

Winners of these award gain global peer and industry recognition with high-profile exposure through RIBA's channels, local, national and international media. The judging is rigorous, and winners show a certain standard of excellence and architecture heritage.

Source: Heritage Update e-Bulletin [online], Issue **No 398**, 18 July 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

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Mapping collaborative interactions between the heritage and higher education sectors

Heritage 2020's Discovery, Identification and Understanding working group has published a report on the nature of collaboration between the heritage sector and higher education. Commissioned from Newcastle University, the research analyses one hundred impact case studies from the Research Excellence Framework (REF) 2014, as well as gathering information from interviews with key stakeholders.

The report identifies areas of untapped potential in terms of collaborative interactions between the historic environment sector and higher education sector and highlights opportunities to encourage further collaboration. The working group is now looking to develop strategies to strengthen collaboration. The working group is now looking to develop strategies to strengthen collaboration between the two sectors. As part of this, the Heritage Alliance's July's Heritage Chat was used to collect the opinions and first-hand experiences of people working in both sectors to gain greater insight into what makes collaborations successful and which tools or support would increase opportunities for collaboration or increase its impact.

Related Link:

Heritage 2020 (2019) 'Collaboration between the historic environment and higher education sectors', Heritage 2020 [online]. Available at: <http://www.heritage2020.net/project-higher-education-links/> [accessed 25 August 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 398**, 18 July 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

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Jerwood's New Diversity & Inclusion Toolkit for Arts Employers

Jerwood Arts and Bridge Group have worked together to create a Toolkit that looks "to support long-term change across the arts sector by sharing knowledge, facilitating expert support, and encouraging take up of an intersectional approach to equality, diversity and inclusion."

The Toolkit features case studies from a variety of arts employers and was created from learning and case studies carried out over a decade of the Weston Jerwood Creative Bursaries program. The Weston Jerwood Creative Bursaries program has worked with over a hundred arts organisations and an Evaluation Report has been published for 2017-2019.

Related Links:

A series of workshops exploring the Toolkit recommendations in depth will be held in Autumn of this year (2019). For further information about the Toolkit and workshops, please visit

Jerwood Arts (2019) 'Socio-Economic Diversity and Inclusion in the Arts: A Toolkit for Employers', Jerwood Arts [online]. Available at: <https://jerwoodarts.org/projects/weston-jerwood-creative-bursaries-2017-19/toolkit/> [accessed 8 August 2019]

For Government guidance on socio-economic backgrounds (SEB) and the workforce, please visit

GOV.UK, Cabinet Office, Civil Office (2019) Guidance: 'Socio-economic background (SEB)', GOV.UK [online]. Available at: www.gov.uk/government/publications/socio-economic-background/socio-economic-background-seb [accessed 8 August 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 398**, 18 July 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

Open Praxis Archives [online]. Further information available at <https://openpraxis.org/index.php/OpenPraxis/issue/archive> [accessed 25 August 2019]



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Open Praxis, Volume 11, No. 2, April - June (2019)

Papers (available in full-text versions) include the following:

Editorial -

Title: Introduction to Open Praxis volume 11 Issue 2

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: This *Open Praxis* issue in volume 11 includes eight research papers.

Keywords: distance education; open education; oer; higher education; e-learning; teacher education.

Reference: Gil-Jaurena I (2019) 'Introduction to Open Praxis issue in volume 11 includes eight research papers', *Open Praxis*, 11(2): pp 117-118.

doi: <http://dx.doi.org/10.5944/openpraxis.11.2.994> [accessed 25 August 2019]

Research articles -

Title: Structural changes in the landscape of Spanish distance universities

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: The main national distance learning universities were launched before the emergence of the internet. In order to adapt to digital connectivity, these universities had to modify their organisational and methodological procedures. But in recent years important changes have emerged in the field of educational technology, and this has significantly altered the higher education sector.

This work analysed the recent updates that distance-learning universities in Spain have undertaken in order to adapt to the current higher education landscape. The evolution of enrolment rates in distance universities in Spain in the period 2003-2017 was taken as a reference. Based on the available data, the factors that explain the enrolment gap between types of entities are analysed and key actions for the evolution of distance learning universities in Spain are suggested. This provides an evidence-based approach that aims to contribute to the reflection of academics, institutional managers and policy makers who are called upon to reorient the strategy of distance universities to make them sustainable in the medium and long term in the new landscape.

Keywords: Distance universities, higher education, educational policy, lifelong learning, digital shift, digital governance, Spain.

Reference: Domínguez Figaredo D, and Alvarez Alvarez J (2019) 'Structural changes in the landscape of Spanish distance universities'. *Open Praxis*, 11(2), pp 119-128.

doi: <http://dx.doi.org/10.5944/openpraxis.11.2.958> [accessed 25 August 2019]

Title: **How e-learning engagement time effects academic achievement in e-learning environments: A large-scale study of open and distance learners**

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: The literature is considerably rich about engagement and academic achievement in the context of open and distance learning. However, there is limited research that investigates these variables with large scale participants. In this regard, the aim of this research was to investigate causal correlations between e-learning engagement time and academic achievement of open and distance learners according to course subject, dropout, and bounce rate variables. The participants of this study were 323,264 open and distance learners from Anadolu University, Turkey. Throughout this research, open and distance learners' engagement time levels and their academic achievements are compared. Academic achievement was found to increase significantly when learners engaged more with e-learning materials.

Keywords: Open and distance learning; Academic achievement; Engagement time; Bounce rate.

Reference: Firat M, Öztürk A, Güneş I, Çolak E, Beyaz M, and Büyük K (2019) 'How e-learning engagement time affects academic achievement in e-learning environments. A large-scale study of open and distance learners', *Open Praxis*, 11(2), pp 129-141.

doi: <http://dx.doi.org/10.5944/openpraxis.11.2.920> [accessed 25 August 2019]

Title: **Impact of organisational culture, organisational communication and supervisor support on the job satisfaction of employees working in online IT based institutions of Pakistan**

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: Distance education particularly the IT based distance learning is a fast growing concept in the academic world. The employees working in such distance learning institutions have certain issues that need to be investigated. One important such issued the job satisfaction of employees, Job satisfaction of employees can be investigated through several variables. Job satisfaction is equally important in all of the organisations including the face to face and distance learning organisations. Distance learning organisations differ from face to face as the supervisor and the employees happen to be seated hundreds of miles away from each other. They do not even have a facial know how or interaction with each other. This distance create certain differences in the culture and the facial anonymity also has an impact on the supervisor support on the job satisfaction of the employees working in the IT based distance learning institutions of Pakistan. These variables are so selected because the employees working in such organisations happened to be seated away from supervisor and one another as well. A survey was conducted for this purpose in which data was collected through online questionnaire and data processed through regression analysis. Findings of the study revealed that all the three variables including organisational culture, organisational communication and supervisor support has a positive impact on the job satisfaction of employees working in the IT based distance learning organisations.

Keywords: Distance education, Organisational culture, Organisational communication, supervisor support, job satisfaction

Reference: Usman K (2019) 'Impact of organizational culture, organizational communication and supervisor support on the job satisfaction of employees working in online IT based distance learning institutions of Pakistan', *Open Praxis*, 11(2), pp 143-156.

doi: <http://dx.doi.org/10.5944/openpraxis.11.2.931> [accessed 25 August 2019]

Title: Pakistani Teacher-educator Professional Learning Through an International Blended Course

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: International teacher-educator learning supports a more complex vision of teacher professionalism for both developed and developing countries. The aim of this paper is the analysis of Pakistani teacher-educator professional learning after attending an international blended course, considering the impact of online and face-to-face participation and the main competencies involved in their professional learning. The blended learning course attended by the Pakistani Teacher-educators is part of an international project between Europe and Asia. The analysis is carried out using written traces in the online platform; 47 questionnaires at the end of the face-to-face training sessions in Pakistan and 10 deep-interviews with Pakistani educators; the written traces, open questions, and deep-interviews were qualitatively analysed. The paper considers how international learning could affect the professional learning of teacher-educators in Global South and the centrality of the design of innovative learning courses for today's environment of international globalisation.

Keywords: Teacher-educator, Blended learning, International, Professional Learning, Design

Reference: Impedovo M, and Khatoun Malik S (2019) 'Pakistani Teacher-educator Professional Learning Through an International Blended Course'. *Open Praxis*, 11(2), pp 157-166.

doi: <http://dx.doi.org/10.5944/openpraxis.11.2.928> [accessed 25 August 2019]

Title: Fostering Openness in Education: Considerations for Sustainable Policy-Making

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: This paper reviews a framework to support the co-creation of policies to sustainably foster Open Education. The framework has been derived from a comprehensive review of public and Open Education policy documents and related literature, as well as identification and consideration of contiguous issues in the education landscape that directly impact openness and can potentially detail policies, including datafication, copyright reforms, and the unbundling of services into component parts.

The open policy framework, along with a canvas and set of change cards and a dynamic grounded in the participation and co-creation standard developed by the Open Government Partnership, have been used in three workshops piloted during 2018, to facilitate co-design of Open Education policies, by discussing contexts, objectives and challenges with policymakers and advisors both at national and institutional levels, policymakers and advocates with a series of tools and advise to enable arenas to co-create open-education policies.

Keywords: Open Education, Educational Policy, Copyright Reform, Open Learning Recognition

Reference: Atenas J, Havemann L, Nascimbeni F, Villar-Onrubia D, and Orlic D (2019) 'Fostering Openness in Education: Considerations for Sustainable Policy-Making', *Open Praxis*, 11(2), pp 167-

183. doi: <http://dx.doi.org/10.5944/openpraxis.11.2.947> [accessed 25 August 2019]

Title: The Effectiveness of Open Educational Resources in College Calculus. A Quantitative Study

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: We investigate Open Educational Resources (OER) in post-secondary Calculus with face-to-face instruction using web-based homework in a side-by-side comparison with Closed (Proprietary) Educational

Resources (CER). Statistical analyses using multilinear regression models are developed to demonstrate several significant effects, to within a probability of 5%. Our first finding is that students' pre-test scores and access dates to online homework were both significant factors in predicting first exam scores. While pre-test scores were similar between the groups, students in the OER group accessed the online homework earlier in the semester, which contributed to higher first exam scores. Second, homework scores were significantly higher in the CER group, which was a significant measure of final exam scores. In understanding this result, we cite student comments suggesting the proprietary CER homework system had more resources providing help on problems. However, the difference in final course grades were not significant. We conclude from our study that the OER materials are effective but recommend that care is taken to ensure the free materials provide a quality experience.

Keywords: OER; open educational resources, closed (proprietary) educational materials, mathematics, calculus, web-based homework, quantitative study.

Reference: Kersey S (2019) 'The Effectiveness of Open Educational Resources in College Calculus. A Quantitative Study'. *Open Praxis*, 11(2), pp 185-193.

doi: <http://dx.doi.org/10.5944/openpraxis.11.2.935> [accessed 25 August 2019]

Title: Testing the Intervention of OER Renewable Assignments in a College Course

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: The purposes of this study was to explore students and instructor perceptions of the concept of renewable assignments in the open educational resources (ER) movement. Mixed methods were used, with a combination of a survey and semi-structured interview, administered at George Mason University in the United States. Eleven graduate students enrolled in the Instructional Design and technology program in the course Advanced Instructional Design were invited to complete an online survey. A face-to-face interview was conducted with the instructor of the course. Descriptive statistics and thematic analysis were used to examine the results of the study. The data analysis found that only a small number of students were knowledgeable about OER, but the majority of participants indicated that they were very satisfied with the concept of renewable assignments. The findings suggest further investigation of the pedagogical models that tend to support student-generated OER.

Keywords: Higher education; open educational resources (OER); open pedagogy, OER-enabled pedagogy, renewable assignments, perceptions of OER, student-created OER

Reference: Al Abri M, and Dabbagh N (2019) 'Testing the Intervention of OER Renewable Assignments in a College Course'. *Open Praxis*, 11(2), pp 195-209.

doi: <http://dx.doi.org/10.5944/openpraxis.11.2.916> [accessed 25 August 2019]

Title: User-Generated Content's Impact on the Sustainability of Open Educational Resources

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: Sustainability is a fundamental requirement to ensure long-term viability of open educational resources (OER) initiatives. To afford technology upgrades and author costs, most of the existing initiatives are heavily reliant on continued funding; limiting OER models to invest in commissioned works. User-generated resources come as a solution to this problem, although a fairly novel concept to the area of child literacy. Consequently, there is little evidence available in earlier literature on their use for education. With online platforms such as social media and gaming sites encouraging users to collaborate and create original content, user-generation is a potential instrument for circumventing costs and achieving rapid dissemination of works. However, it also presents a significant downside – questionable quality. This paper discusses the use of user-created OERs for literacy, exploring the quality and sustainability implications that arise from this creation method and the measures undertaken by an Indian organisation to overcome the same.

Keywords: Open educational resources; user-generated content; quality assurance; cost; sustainability; child literacy.

Reference: Ganapathi, J. (2019). User-Generated Content's Impact on the Sustainability of Open Educational Resources. *Open Praxis*, 11(2), pp 211-225.
doi: <http://dx.doi.org/10.5944/openpraxis.11.2.941> [accessed 25 August 2019]

Top searching tips from *Lucy the Librarian* – Whilst you are reading *Open Praxis* journal articles do take time to familiarise yourself with the further supporting services and resources online. You will note (down the right-hand side) that there are 'Journal Content' search facilities, a Twitter feed highlighting the latest news and views, and within articles there is an 'Article Tools' section that include 'How to Cite Item' and '**Finding References**' that provides a tool where you can search for additional articles written by the same author or subject area within 'Google Scholar' &/or 'Windows Live Academic'.

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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 August 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 August 2019]

Most Popular articles (as of 17 August 2019) incl.

1. Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources by Farrow R, Pitt R [et al.]
2. Differences Between Regular and Distance Education in a Teacher's Training Program by Zacharias G and Yiannis G
3. Predicting Dropout Student: An Application of Data Mining Methods in an Online Education Program by Yukselturk E [et al.]
4. Aesthetic Literacy: Observable Phenomena and Pedagogical Applications for Mobile LifeLong Learning (MLLL) by Gallagher M S and Ihanainen P
5. Self-Esteem and Loneliness as Factors Affecting Distance Learning Students by Vakoufari M, Christina A, and Mavroidis I
6. Transactional Distance and Autonomy in a Distance Learning Environment by Vasiloudis G [et al.]

7. Learners on the Periphery: Lurkers as Invisible Learners by Honeychurch S, Bozkurt A, Singh L and Koutropoulos A
 8. Cross-Cultural Communication and Collaboration: Case of an International e-Learning Project by Toprak E and Genc-Kumtepe E
 9. The Flipped-Classroom Approach: The Answer to Future Learning? By Kurtz G, Tsimermand A [et al.]
 10. Learning Effectiveness and Students' Perceptions in A Flexible Learning Course by Müller C, Stahl M [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 August 2019]

Papers in this latest issue of *Online Learning Journal* incl.

This issue of OLJ 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

Introduction

- Shea P (2019) 'Introduction to Online Learning Volume 23, Issue 2', *Online Learning* [online], 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2027> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.2027> [accessed 25 August 2019].
- Introduction to the Special Issue [S.I.]: Introduction to Online Learning Volume 23, Issue 2

Faculty Development

- Borup, J., & Evmenova, A. (2019) 'The Effectiveness of Professional Development in Overcoming Obstacles to Effective Online Instruction in a College of Education'. *Online Learning* [online], 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1468> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1468> [accessed 25 August 2019]
- The growth of online learning has placed a strain on K-12 schools and universities to provide students with qualified instructors. It is especially important that colleges of education provide their pre- and in-service teachers with skilled online instructors, so they can experience quality online instruction first-hand as students. This case study examined the effectiveness of a 6- to 7-week professional development course designed to improve faculty members' knowledge, skills, and dispositions required to teach online effectively in a college of education. Faculty participants were also given the opportunity to earn up to seven digital badges for demonstrating specific skills during the course. Analysis of 18 faculty interviews, surveys, and discussion board comments found that course content and assignments improved faculty members' knowledge and skills, but the ways the course was delivered, and the online teaching methods modelled by the course instructor appeared to have a larger impact on perceptions and attitudes towards online learning. As a result, online teaching professional development may have its greatest impact when it models the types of online courses the college would like faculty to actually design and facilitate. Faculty also appeared to be more motivated to earn digital

badges than they had originally anticipated but were confused what to do with the badges once they were earned.

Keywords: online learning, online teaching, instructor modelling, professional development.

Lessons From the Field

- France-Harris, J.D., A., Burton, Ed. D., C., & Mooney, J.D., M. (2019) '**Putting Theory into Practice: Incorporating a Community Engagement Model into Online Pre-professional Courses in Legal Studies and Human Resources Management**', *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1448> [accessed 25 August 2019], doi: <http://dx.doi.org/10.24059/olj.v23i2.1448> [accessed 25 August 2019].

- As part of community-engaged educational partnerships, students are paired with community members in instructor-focused activities linked to an academic curriculum. Scholars widely agreed that this typed of approach can significantly improve the learning experience for students while simultaneously having a positive impact on the community. As faculty in higher education implement this pedagogical tool, it is a natural progression for it to expand into online classrooms. In particular, while there is a growing body of research related to community engagement in online healthcare and science-related fields, less research exists on the incorporation of community engagement in other types of online pre-professional courses. This paper explores student perceptions in online pre-professional undergraduate courses in the legal studies and human resources fields in which community engagement projects were utilized. These experiences should lead to a deeper understanding of the benefits and challenges of community-engaged online classrooms and give guidance for developing future projects.

Keywords: community engagement; service learning; experiential learning; online learning; student perceptions; legal studies; paralegal studies; human resources; human resources management.

- Miller, M., & Cohen Miller, A. (2019) '**Open Video Repositories for College Instruction: A Guide to the Social Sciences**'. *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1492> [accessed 25 August 2019], doi: <http://dx.doi.org/10.24059/olj.v23i2.1492> [accessed 25 August 2019]

- Key features of open video repositories are outlined, followed by brief description of specific sites relevant to the social sciences. Although most were created by instructors over the past 10 years to facilitate teaching and learning, significant variations in kind, quality, and number per discipline were discovered. Economics and Psychology have the most extensive sets of repositories, while Political Science has the least development. Among original-content websites, Economic has the strongest collection in terms of production values, given substantial support from wealthy donors to advance political and economic agendas. Sociology stands out in having the most developed website in which found-video is applied to teaching and learning. Numerous multidisciplinary sites of quality have also emerged in recent years.

Keywords: video, online, YouTube, social science, college teaching.

- Peacock, S., & Cowan, J. (2019) '**Promoting a Sense of Belonging in Online Learning Communities of Inquiry**'. *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1488> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1488> [accessed 25 August 2019]

- A sense of belonging (SoB) is a valued concept in campus-based learning, being firmly linked with improved student attainment, increased learners' satisfaction and reduce attrition rates. Some researchers even assert that learners' satisfaction and reduced attrition rates. Some researchers even assert that learners are unable to fulfil the goals of higher education without acquiring a SoB. This article recognises that SoB can help promote and consolidate learning and seeks to specify how tutors may nurture online learners' SoB. An adapted version of the Community Inquiry Framework (CoIF) is used to frame specific suggestions for action. This revision of the well-known Framework focuses upon the overlapping intersections of the three Presences, entitled influences: 'Trusting', 'Meaning-making' and 'Deepening understanding'. For each Influence, guidance illustrated by examples is offered, leading to particular suggestions that concentrate upon the promotion of a sense of belonging as an important aspect of the online tutor's facilitative activities.

Keywords: Sense of belonging; online learning; Community of Inquiry Framework; Influences.

Student Issues, Pedagogy, Tools, and Support

- Ou, C., Joyner, D., & Goel, A. (2019) '**Designing and Developing Videos for Online Learning: A Seven-Principle Model**'. *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1449> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1449> [accessed 25 August 2019]

- Despite the ubiquitous use of instructional videos in both formal and informal learning settings, questions remain largely unanswered on how to design and develop video lessons that are often used as the primary method for delivering instruction in online courses. In this study, we experimented with a model of seven principles drawn from instructional design theories for designing and developing video lessons for an online graduate course. Feedback was collected from students through surveys on their perceptions of the effectiveness of the video lessons and the overall course quality for eight semesters. This paper shares the instructors' experience on the design and development of the video lessons as well as the survey findings. Implications of the findings for instructional design and future research are also discussed.

Keywords: artificial intelligence, instructional videos; online learning.

- Guajardo Leal, B., Valenzuela González, J., & Scott, J. (2019) '**Student engagement as predictor of xMOOC completion: An analysis from five courses on energy sustainability**'. *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1523> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1523> [accessed 25 August 2019].

- MOOC are characterized as being courses to which a large number of students enrol, but only a small fraction completes them. An understanding of students' engagement construct is essential to minimize dropout rates. This research is of a quantitative design and exploratory in nature and investigates the interaction between contextual factors (demographic characteristics), student engagement types (academic, behavioural, cognitive and affective), and learning outcomes, with the objective of identifying the factors that are associated with completion of massive and open online courses. Two logistic models were adjusted in two samples, general and secondary, with the binary dependent variable defined as completes the course yes/no. The results in the general sampler (15% completion rate) showed that the probabilities of a participant completing the course are positively and significantly related to gender (female) and age. The results in the secondary sample (87% completion rate) showed that the probabilities of a participant completing the course are positively and significantly related to participation in the forum, gender (female), and the motivation and satisfaction indexes, and negatively related to age, having previously experience in other MOOC, and self-efficacy and task strategies indexes. The results lead to ideas on how these variables can be used to support students to persist in these learning environments.

Keywords: Engagement; learning analytics; xMOOC; self-regulated learning; completion

- Shaw, L., MacIsaac, J., & Singleton-Jackson, J. (2019) '**The Efficacy of an Online Cognitive Assessment Tool for Enhancing and Improving Student Academic Outcomes**'. *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1490> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1490> [accessed 25 August 2019]

- With technology at the fingertips of most undergraduate students, it has been difficult for instructors to fully engage students in the classroom, which has resulted in the creation of several innovative assessment platforms, such as mTuner. mTuner integrates several cognitive learning strategies within an assessment, with the foal of actually enhancing learning, as opposed to just measuring it. In the current study, students' level of engagement and performance with mTurner were compared to their final multiple-choice paper and pencil exam mark to determine the efficacy of mTuner in achieving improved learning outcomes. Results indicated that students had high performance scores on the mTuner assessment despite their limited engagement in the cognitive learning features, putting to question mTuner's facilitation of long-term learning. Implications and future recommendations of mTurner implementation in educational environments are discussed.

Keywords: Online assessment, student engagement with online tools, online learning.

- Halverson, L., & Graham, C. (2019) '**Learner Engagement in Blended Learning Environments: A Conceptual Framework**', *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1481> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1481> [accessed 25 August 2019]

- Learner engagement correlates with important educational outcomes, including academic achievement and satisfaction. Although research is already exploring learner engagement in blended contexts, no theoretical framework guides inquiry or practice, and little consistency or specificity exists in engagement definitions and operationalisations. Developing definitions, models, and measures of the factors that indicate learner engagement is important to establishing whether changes in instructional methods (facilitators) result in improved engagement (measured via indicators). This article reviews the existing literature on learner engagement and identifies constructs most relevant to learning in general and blended learning in particular. We present conceptual framework for engagement that includes cognitive and emotional indicators, offering examples of research measuring these engagement indicators in technology-mediated learning contexts. Finally, we suggest future studies to test the framework, which we believe can support advances in blended learning

engagement research that is increasingly real-time, minimally intrusive, and maximally generalizable across subject matter contexts.

Keywords: learner engagement; cognitive engagement; emotional engagement; blended learning; hybrid learning; theory; conceptual framework.

- Kilis, S., & Yıldırım, Z. (2019) '**Posting Patterns of Students' Social Presence, Cognitive Presence, and Teaching Presence in Online Learning**', *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1460> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1460> [accessed 25 August 2019]

- This case study probes the posting patterns of students' social presence, cognitive presence, and teaching presence in an online learning setting in the basis of community of inquiry framework. Qualitative data was collected from 91 students selected with purposive sampling from the Department of Medical Documentary and Secretary, a fully online associate degree program at a well-known public university. Students participated in six online asynchronous discussion activities on Moodle. The data was analysed through descriptive and deductive transcript analysis. The findings revealed students' posting behaviours were at a substantially high level for three-construct and could be enhanced during treatment at a fairly substantially level, different from earlier studies. The most important points behind a high level of social and cognitive presence were addressing the topics based on real life cases and scenarios and designing reflective activities. The findings further indicated that large class size in online discussion could be overwhelming.

Keywords: online learning, community of inquiry, social presence, cognitive presence, teaching presence, online asynchronous discussion

- Kucuk, S., & Richardson, J. (2019) '**A structural equation model of predictors of online learners' engagement and satisfaction**', *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1455> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1455> [accessed 25 August 2019]

- This study investigated the structural relationships among online learners' teaching, social and cognitive presence, engagement, and satisfaction. Data were collected from graduate students enrolled in an online graduate program at a large Midwestern public university through online surveys. Structural equation modelling (SEM) was used to analyse the data. According to the results, teaching presence, cognitive presence, emotional engagement, behavioural engagement, and cognitive engagement were significant predictors of satisfaction and these determinants of the satisfaction was teaching presence, which had direct and indirect effects on satisfaction. Moreover, the study revealed significant predictors of emotional, behavioural, cognitive and agentic engagement. Implications are discussed in terms of theoretical insights, practices for online learning environments, and further research directions.

Keywords: Community of Inquiry, structural equation modelling, online learning, social presence, teaching presence, cognitive presence, engagement, satisfaction.

- Francis, K., Troop, M., Salter, J., Parahoo, R., Costanzo, L., & Desmarais, S. (2019) '**Scribe Hero: An Online Teaching and Learning Approach for the Development of Writing Skills in the Undergraduate Classroom**', *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1531> [accessed 25 August 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1531> [accessed 25 August 2019]

- This study examined whether or not writing skills could be taught to post-secondary students via online learning modules and what student perceptions of such a learning process were like. A pilot study of the modules developed – called *Scribe Hero* – was conducted in the fall of 2017. Statistical analysis of quantitative data reveals an improvement in student writing skills following their engagement with the online learning modules. Thematic analysis of qualitative data revealed that the students were engaged by the experience, finding it educational and refreshingly different from in-class options. The feedback also suggested that user-friendly technology, tone of the online environment, incentivising meaningful feedback, and maintaining a sense of direct applicability of content are essential to capitalising on this sort of teaching and learning methodology. Overall, the findings of this small-scale research study support further development of this technology while also offering lessons that can be transferred to other contexts for teaching writing.

Keywords: Online Learning, Writing, gamified learning.

Book Review

- Rowland, H. (2019) '**A Book Review of Blended Learning in Action: A Practical Guide Toward Sustainable Change**', *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1483> [accessed 25 June 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1483> [accessed 25 August 2019]

- This is a book review of Tucker, Wycoff, and Green's *Blended Learning in Action: A Practical Guide Toward Sustainable Change*. This review will discuss the basic information from the book, the people who would most benefit from reading it, and the portions of the book most applicable to practitioners.

Keywords: Blended Learning; Differentiation.

Source: *Online Learning Journal* [online], **Volume 23, No. 2, June 2019**. Available at <https://olj.onlinelearningconsortium.org/index.php/olj> [accessed 25 August 2019] Online Learning Consortium (OLC)

Top searching tips from Lucy the Librarian – Whilst you are reading the *Online Learning* journal articles from OLC do take time to familiarise yourself with the further supporting services and resources online. You will note (down the right-hand side) that there are 'Journal Content' search facilities, 'Journal Help' section, and within articles there is an 'Article Tools' section that include 'How to Cite Item' and '**Finding References**' that provides a tool where you can search for additional articles written by the same author or subject area within 'Google Scholar' &/or 'Windows Live Academic'.

Related Links:

MERLOT – **M**ultimedia **E**ducational **R**esource for **L**earning and **O**nline **T**eaching [online] and further information available at: www.merlot.org/merlot/index.htm [accessed 25 May 2019]. **JOLT**, MERLOT's **J**ournal for **O**nline **L**earning and **T**eaching [online] and available at: <http://jolt.merlot.org/index.html> [accessed 25 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 2019].

Related links:

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 25 August 2019]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 25 August 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 19/08/2019):

- **13,664** journals
- **10,703** journals searchable at article level
- **131** countries
- **4,215,568** articles

The Directory of Open Access Journals (DOAJ) <https://doaj.org/> [accessed 25 August 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 August 2019]

Example articles/papers in the most recent issue include:

Editorial:

- Refiguring Global Construction Challenges through Ethnography

Tutt D & Pink S (2019) '**Refiguring global construction challenges through ethnography**', *Construction Management and Economics*, 37(9), pp475-480, London: Taylor and Francis Online, DOI: [10.1080/01446193.2019.1643570](https://doi.org/10.1080/01446193.2019.1643570) [accessed 25 August 2019]

Articles:

- An insider's point of view: autoethnography in the construction industry

Grosse H (2019) '**An insider's point of view: autoethnography in the construction industry**', *Construction Management and Economics*, 37(9), pp481-498, London: Taylor and Francis Online, DOI: [10.1080/01446193.2018.1501156](https://doi.org/10.1080/01446193.2018.1501156) [accessed 25 August 2019]

- The production of defects in construction – an agency dissonance

Koch C & Schultz C S (2019) '**The production of defects in construction – an agency dissonance**', *Construction Management and Economics*, 37(9), pp499-512, London: Taylor and Francis Online, DOI: [10.1080/01446193.2018.1519253](https://doi.org/10.1080/01446193.2018.1519253) [accessed 25 August 2019]

- "Thrown away like a banana loaf": precarity of labour and precarity of place for Tamil migrant construction workers in Singapore

Hamid W & Tutt D (2019) '**"Thrown away like a banana leaf": precarity of labour and precarity of place for Tamil migrant construction workers in Singapore**', *Construction Management and Economics*, 37(9), pp513-536, DOI: [10.1080/01446193.2019.1595075](https://doi.org/10.1080/01446193.2019.1595075) [accessed 25 August 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 August 2019]

Example information/ research articles/papers in the most recent issue:

Editorial:

- Living with buildings

Emmitt S (Editor-in-Chief) (2019) '**Living with buildings**', *Building Research & Information*, 47(7), pp785-786, London: Taylor and Francis Online, Informa UK Limited,

DOI: [10.1080/09613218.2019.1637595](https://doi.org/10.1080/09613218.2019.1637595) [accessed 25 August 2019]

Articles:

- Evaluation of BIM energy performance and CO₂ emissions assessment tools: a case study in warm weather

Galiano-Garrigós A, García-Figueroa A, Rizo-Maestre C & González-Avilés Á (2019) '**Evaluation of BIM energy performance and CO₂ emissions assessment tools: a case study in warm weather**', *Building Research & Information*, 47(7), pp787-812, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2019.1620093](https://doi.org/10.1080/09613218.2019.1620093) [accessed 25 August 2019]

- Historical analysis of the economic life-cycle performance of public school buildings

Salvado F, Marques de Almeida N & Azevedo Á V (2019) '**Historical analysis of the economic life-cycle performance of public school buildings**', *Building Research & Information*, 47(7), pp813-832, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2019.1612730](https://doi.org/10.1080/09613218.2019.1612730) [accessed 25 August 2019]

- LGA benchmarks for residential buildings in Northern Italy and Denmark – learnings from comparing two different contexts

Rasmussen F N, Ganassali S, Zimmermann R K, Lavagna M, Campioli A & Birgisdóttir H (2019) '**LCA benchmarks for residential buildings in Northern Italy and Denmark – learnings from comparing two different contexts**', *Building Research & Information*, 47(7), pp833-849, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2019.1613883](https://doi.org/10.1080/09613218.2019.1613883) [accessed 25 August 2019]

- Quantifying energy demand reduction considering householder willingness to apply measures

Cosar-Jorda P, Buswell R A & Mitchell V A (2019) '**Quantifying energy demand reduction considering householder willingness to apply measures**', *Building Research & Information*, 47(7), pp850-864, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2019.1630245](https://doi.org/10.1080/09613218.2019.1630245) [accessed 25 August 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 August 2019]

Example **Latest articles**/papers in the most recent issue include:

- Firm and industry informational content from REIT FFO announcements

William G. Hardin I, Gow-Cheng H, Kartono L, and Ming-Shiun P (2019) '**Firm and industry informational content from REIT FFO announcements**', *Journal of Property Research*, 36(2), pp131-152, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2019.1589554](https://doi.org/10.1080/09599916.2019.1589554) [accessed 25 August 2019]

- Investment decision-making under economic policy uncertainty

Cath Jackson & Allison Orr (2019) '**Investment decision-making under economic policy uncertainty**', *Journal of Property Research*, 36(2), pp153-185, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2019.1590454](https://doi.org/10.1080/09599916.2019.1590454) [accessed 25 August 2019]

- Exploring sentiment-driven trading behaviour of different types of investors in the London office market

Qiulin K, and Sieracki K (2019) '**Exploring sentiment-driven trading behaviour of different types of investors in the London office market**', *Journal of Property Research*, 36(2), pp186-205, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2019.1593220](https://doi.org/10.1080/09599916.2019.1593220) [accessed 25 August 2019]

- Spatial and temporal impacts on building depreciation

Jaime Armengot J, Brendan Williams & J. Francisco Padial (2019) '**Spatial and temporal impacts on building depreciation**', *Journal of Property Research*, 36(2), pp206-225, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2019.1602844](https://doi.org/10.1080/09599916.2019.1602844) [accessed 25 August 2019]

Please note: that this journal can be accessed (IN FULL) via the **VLE e-Library login**, or via section 2 - **Athens gateway to e-Library resources**, and by selecting **Taylor and Francis Online** via the **Resources** tab.

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Henry Stewart Publications



Top searching tips from *Lucy* the Librarian –

The below-mentioned journals can be accessed (IN FULL) via the **VLE e-Library**. Please ensure that you have clicked the **Library login** and have your **Athens** account open. Once you have Athens open, select **Ingenta Connect** from the **Resources** listed, and then '**Publishers**' and '**Henry Stewart Publications**' where you will then see that you have full access to current and archived issues of the 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 **Library login** to open your MyAthens account.

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]	

Top searching tips from *Lucy* the Librarian –

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 continually building on its' e-Book collection. 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.

Top searching tips from *Lucy* the Librarian –

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) hold 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).

The below-mentioned books are either open educational resources or can be accessed via the **VLE e-Library**. Please ensure that you have clicked the **Library login** and have your **Athens** account open. Once you have Athens open, select **DawsonEra** and 'eBook Catalogue' from the menu bar.

Six books that are currently available are as follows:

1. Managing Diversity and Inclusion in the Real Estate Sector
2. Studying at a Distance
3. The new landscape of mobile learning: Redesigning education in an app-based world
4. Rethinking Pedagogy for a Digital Age, 2nd edition
5. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

1. Managing Diversity and inclusion in the Real Estate Sector -

Clack A and Gabler J (2019). *Managing diversity and inclusion in the real estate sector* [e-book]. Oxon: Routledge.

e-ISBN-13: 9780429428975

Research shows that high-performing organisations focus on diversity and inclusion (D&I). In any workplace, it is important to both understand and recognise the benefits that having a D&I workforce provides. It is integral to developing people within an organisation, serving clients as best we can, and playing an important leadership role in communities.

Managing diversity and inclusion the real estate sector is the first to place D&I at the centre of successful real estate and construction organisations. It provides guidance to, and most importantly, actions for professionals in the sector who want to make D&I an inherent part of the culture of their organisation. This book has been written to bring the sector up to speed with what D&I is all about and how a D&I strategy can be implemented to secure future success. It presents a practical and easy-to-read guide that can help organisations and their leaders engage with and apply this agenda to win the war for talent in real estate and construction.

This book is essential reading for all property leaders and professionals working in the real estate and construction sectors. Readers will gain especially from personal reflections on all aspects of diversity by a broad range of people working in the property industry.

Keywords: D&I; Diversity; Inclusion; Real Estate; Property Industry; Leadership.

2. Studying at a Distance -

By Talbot, C., (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.

3. 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.

4. Rethinking Pedagogy for a Digital Age –

Edited by Beetham H, and 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

5. 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.

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 August 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 25 August 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 August 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 19/08/2019):

- **18,975** Academic peer-reviewed books from
- **319** publishers

The Directory of Open Access Books (DOAB) www.doabooks.org/doab [accessed 25 August 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 August 2019]

LawTrove [online]. Further information is available at: www.oxfordlawtrove.com/ [accessed 25 August 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 August 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 August 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 August 2019]

Latest info: Property and Real Estate catalogue [online] and available at: www.routledge.com/collections/4812 [accessed 25 August 2019]

Other subject categories incl.

- Architecture - www.routledge.com/architecture/
- Building and Construction - www.routledge.com/buildingconstruction
- Built Environment - www.routledge.com/builtenvironment
- Planning and Urban Design - www.routledge.com/planning/
- Research Methods - www.routledge.com/research-methods

[websites correct as at 25 August 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.routledgetextbooks.com/textbooks/sustainability [accessed 25 August 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 August 2019] and <http://eu.wiley.com/WileyCDA/> [accessed 25 August 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 August 2019]

Wiley Open Access [online]. Further information is available at: <http://olabout.wiley.com/WileyCDA/Section/id-406071.html> [accessed 25 August 2019]

- Business and Management [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000028> [accessed 25 August 2019]
- Economics [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000047> [accessed 25 August 2019]
- Law [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000076> [accessed 25 August 2019]
- Civil Engineering and Construction [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000034> [accessed 25 August 2019]

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Information Governance incl. © Guidance and Data Protection:

With new technologies 'constantly emerging' and us finding ourselves moving further into an ever more digital direction, one of my main objectives within the UCEM Library is to make identifying relevant information easier.

I recognise that in an information-rich age, everyone is pressed for time and it can be a real challenge to find relevant and credible resources just when you need them. There, another objective is to signpost staff and students to accessible quality information resources that will supplement teaching and learning materials and support students through their studies and continuing professional development.

Information Governance and Compliance - UCEM is committed to advancing information governance and compliance, ensuring that the service provided comply with the General Data Protection Regulation (GDPR), Data Protection, Freedom of Information, Records management, Copyright, and Information Security.

To make sure that information is available in the right place and at the right time to support others, the e-Library ensures that the information services provide comply with data protection and copyright.

With **copyright** –

“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 August 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 August 2019]

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Further guidance on Copyright and Digital Copyright incl.

- What is copyright? @ www.cla.co.uk/what-is-copyright [accessed 25 August 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 August 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 August 2019]

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Latest Copyright News:

Keeping abreast of the latest developments in Information Governance

UCEM is committed to advancing information governance and compliance, ensuring that the services provided comply with GDPR, Data Protection, Records Management, **Copyright**, and Information Security.

Part of my role as Information Governance Manager involves keeping abreast of the latest developments and benchmarking the work I do against that of others. I also undertake regular Continuing Professional Development (CPD) and an element of this is attending the CITE Forum. **CITE** stands for the **Copyright and Information Technologies in Education**. Meetings of the Forum provide great opportunities for sharing ideas and best practices; networking with colleagues; discovering different methods for using library workflow platforms; and of course, having a catch-up with like-minded people over lunch.

Recently I attended the Summer CITE Forum that took place on 30th May and held at the University of Sheffield. We were updated on the latest developments in relation to the CLA's Digital Content Store (DCS) - an innovative web-based platform that combines a searchable repository of digitised book and journal extracts with an online workflow management tool. **Please note:** UCEM are hoping to implement the DCS for next Semester to help improve student experience especially in relation to our scanned resources.

Further information is available at: CLA (2019) 'Digital Content Store' [online]. Available at: www.cla.co.uk/digital-content-store [accessed 25 August 2019]

Other developments incl. New Copyright Licensing Agency (CLA) Higher Education Licence 2019-2022, The Teaching Excellence Framework, and how libraries can contribute to the TEF at their institutions. There were also breakout sessions that focused on tips, tricks and strategies on how to engage academics with reading lists. Further information is available at:

Copyright Licensing Agency (CLA) 'A CITE to behold', CLA [online], 3 June. Available at: www.cla.co.uk/news/cite-summer-2019 [accessed 25 August 2019]

Related Links:

'European Council adopts new copyright directive'

- The European Council has adopted the copyright directive that will reinforce journalists' and publishers' rights to protect their work online.

In a recent statement (see publication date) the European Council said the new directive, which does not create new copyright laws but updates them for the internet, will "pave the way towards a true digital single market". The new rules will allow short snippets of news text to be shared by platforms, such as Facebook and Google, without breach of copyright, but also has provisions to protect copyright holders.

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

Heritage Update e-Bulletin [online], Issue **No 392**, 26 April 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

BBC News > Copyright [online]. Available at: www.bbc.co.uk/news/topics/c4wl5zqxv9xt/copyright [accessed 25 August 2019]

Article 13: Memes exempt as EU backs controversial copyright law

Kleinman Z (2019) 'Article 13: Memes exempt as EU backs controversial copyright law', [BBC News > Technology > EU backs controversial copyright law] BBC News [online], 26 March. Available at:

www.bbc.co.uk/news/technology-47708144 [accessed 25 August 2019]

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 August 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/european-copyright-law-could-change-the-web/ [accessed 25 August 2019]

The Guardian Online (2018) European Commission [online]. Available at: www.theguardian.com/world/european-commission [accessed 25 August 2019]

The Guardian Online (2018) Europe [online]. Available at: www.theguardian.com/world/europe-news [accessed 25 August 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 August 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 August 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%20of%20the%20EU%20copyright%20Directive [accessed 25 August 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 August 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 (2019), ‘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 August 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

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 August 2019]

EUGDOR.org portal (2019) ‘**GDPR Key Changes**’ [online]. Available at: www.eugdpr.org/key-changes.html [accessed 25 August 2019]

Designing Buildings.co.uk Wiki, (2019) ‘**Terms and Conditions**’ [online], last edited 12 July 2018. Further information is available at: www.designingbuildings.co.uk/wiki/Terms_and_Conditions [accessed 25 August 2019]

Kirkup A (2018) ‘**General Data Protection Regulations (GDPR)**’, Institution of Civil Engineers (ICE), last edited 19 January 2018.

Designing Buildings.co.uk Wiki, (2019) ‘**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 August 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 manage personal data. 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 August 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 August 2019]

Korn N (2019) '**GDPR and the Data Protection Act, one year on. What have we learnt?**' [online], Naomi Korn Copyright and Compliance, 28th May. Available at: <https://naomikorn.com/2019/05/28/gdpr-and-the-data-protection-act-one-year-on-what-have-we-learnt/> [accessed 25 August 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 August 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](https://www.gov.uk/government/news/85b07a4a97a5&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate) [accessed 25 August 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 August 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 August 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 August 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 June 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 – Latest statistic summary 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 August 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 www.revocommunity.org/insights [accessed 25 August 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 August 2019]

Source: British Council of Shopping Centres (BCSC), now **Revo - Retail. Property. Community** [online]. Available at: www.revocommunity.org/ [accessed 25 August 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 August 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 August 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 August 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 June 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 August 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 August 2019]

RICS Library Services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 25 August 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 August 2019]. Policy latest is covered 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 August 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 August 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 August 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 August 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 August 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 August 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 **OpenAthens gateway** (by clicking 'Library login') www.openathens.net/ and by selecting 'IHS Information Services (incl. the Construction Information Service (CIS))'. The Briefing can be downloaded from the CIS homepage.

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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 August 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 August 2019]
- **BRE Expertise** incl. BIM, Fire, Resilience, Security, Energy, Innovation, Safety, and Sustainability [online]. Available at: <https://bregroup.com/expertise/> [accessed 25 August 2019]
- **BRE Sectors** Incl. Property, Product manufacturing, and Construction [online]. Available at: <https://bregroup.com/sectors/> [accessed 25 August 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 August 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 August 2019]

Building Research Establishment (BRE) [online] and available @ <https://bregroup.com/> [accessed 25 August 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 August 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 August 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 August 2019]

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12. **Jisc Library Hub Discover (formerly COPAC*)** –

Jisc Library Hub Discover (formerly 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. This new service is being built on the Jisc National Bibliographic Knowledgebase, whilst the new interface development is part of wider Jisc Library Services redevelopment activity. Note: Institution of Civil Engineers (ICE) Library catalogue is now part of Jisc Library Hub Discover.

Note: From July 31st 2019 Copac [online]. Available at: <https://copac.jisc.ac.uk/> [accessed 18 July 2019], was replaced by the new Jisc Library Hub Discover service, with faster response times, new features and an increasing range of contributors.

Researchers and educators use Jisc Library Hub Discover 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. **For further information, please visit:**

Jisc Library Hub Discover [online]. Further information is available at <https://discover.libraryhub.jisc.ac.uk/about/> [accessed 25 August 2019]

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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 August 2019]

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UCEM e-Library portrait

UCEM e-Library portrait @ www.ucem.ac.uk/supported-online-learning/elibrary/
[accessed 25 August 2019]



As of **August 2019**, a search of 'construction' on the internet produces over **4,510,000,000 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.

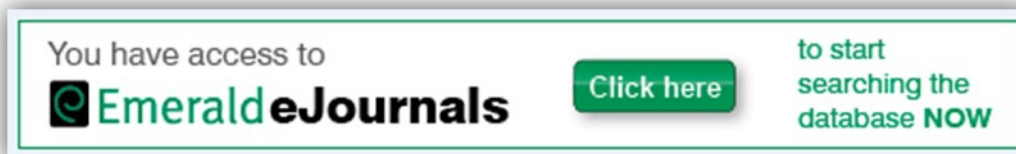
The UCEM e-Library can:

- 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.



Top searching tips from *Lucy* the Librarian –

NOTE: For the above link to work you must ensure that you are in the **VLE e-Library**, have clicked the **Library login** and have your **Athens** account open. Once you are in Athens open, select **Emerald Insight** from the **Resources** listed.

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 August 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:

GoConstruct.org website

The **Go Construct** website showcases the many career opportunities available in construction and the built environment. The site helps to meet the future skills needs of the industry and to recruit a workforce that is diverse and ready for the challenge of the future.

It aims to

- **Inspire** people to consider a career in construction,
- **Discover** what a career in construction is really like, and
- **Experience** the industry for themselves.

For further information please visit

Go Construct [online]. Available at: www.goconstruct.org/ [accessed 25 August 2019]

Or follow them on their Social Media sites. Access via the website goconstruct.org



[@GoConstructUK](https://twitter.com/GoConstructUK) or



Related Link:

A career in construction gives you the chance to be part of something BIG! goconstruct.org [accessed 25 August 2019]

[#ElizabethLine](https://twitter.com/GoConstructUK)

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 August 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 August 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 August 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](#) – Summer 2019

Lucy Top Tip – If you are planning to sit your RICS APC/AssocRICS this Autumn, you'll want to have your preparation well under way this month (see publication date). Make sure you are aware of 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. Make sure you know about those relevant to your chosen pathway and experience.

This week Property Elite are looking at some of the hottest topics for this Autumn's (see publication date) RICS APC assessments Incl.

- **Government intention to outlaw new ground rents and leasehold houses**
- **Government Advice Notice on residential building balconies**
- **Changes to VAT on construction services**
- **Changes to CIL and Section 106**
- **New Modern Methods of Construction (MMC) Definition Framework**
- **Changes to the Model Commercial Lease**

Essential reading for AssocRICS and RICS APC candidates. Audio version of this blog via the source link provided below.

Is there any further guidance available? There will be further blog articles and articles within *Knowledge Foundations* on this – so stay tuned!

N.B. nothing in this article constitutes legal advice.

Source: Lemen-Hogarth J (2019) *Hot Topic Highlight – Permitted Development Rights* [online], Property Elite LLP. Available at:

<https://www.property-elite.co.uk/post/hot-topic-highlight-summer-2019> [accessed 25 August 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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bee**sustainable**
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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 August 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 August 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 August 2019]

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Michael Gove Urges Action to Tackle Climate Change

The Environment secretary (see publication date), Michael Gove gave a speech at Kew Gardens on Tuesday 23rd July 2019 encouraging urgent action to tackle climate change and reverse wildlife loss. He outlined ambitious proposals for an Environment Act, which would involve the creation of an Office of Environmental Protection. This new office could take legal action concerning environmental issues. Gove also backed an all-inclusive deposit return scheme welcomed by The Campaign to Protect Rural England (CPRE) which involves slightly increasing drinks prices to allow for the reuse of the bottles. This signals the government's intent to change. Mr Gove said, "We are partners in the great change of evolution with the rest of nature and endowed as we are with reason, we therefore have the responsibility to steward and protect." The Heritage Alliance has been working with its members to ensure that the historic environment features sufficiently as part of the Bill, which it does not at present.

For further information and to gain access of the Heritage Alliance briefing paper, please visit:

Source: Heritage Update e-Bulletin [online], Issue **No 398**, 18 July 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 2019]

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

Other sources of information and related Links:

The National Trust (2019) 'Phasing out single use plastics at our places', The National Trust [online]. Available at: www.nationaltrust.org.uk/news/phasing-out-single-use-plastics-at-our-places?campid=Print_Central_Inspire_Summer2018_plastics [accessed 25 August 2019]

BBC (2018) – Plastics Watch Resources [online]. Available at: www.bbc.co.uk/programmes/articles/453T5Gp3FP6kmMrJBRS09d/resources [accessed 25 August 2019]

QSAND and the Sustainable Development Goals



Source: [Designing Buildings.co.uk Wiki](https://www.designingbuildings.co.uk/wiki/), (2019) 'Forgetting the big picture when considering sustainability' [online], last edited 31 March 2019.

Further information is available at: www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals [accessed 25 August 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 contributing 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 31 March 2019. Further information is available at:

www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals [accessed 25 August 2019]

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 August 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 14 Dec 2018. Further information is available at:

www.designingbuildings.co.uk/wiki/Forgetting_the_big_picture_when_considering_sustainability [accessed 25 August 2019]

Sustainability in building design and construction

Source: **Designing Buildings.co.uk Wiki**, (2019) 'Sustainability in building design and construction' [online], last edited 23 May 2019. Further information is available at:

www.designingbuildings.co.uk/wiki/Sustainability_in_building_design_and_construction [accessed 25 August 2019]

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** (2019) [online]. Further information is available at: https://www.designingbuildings.co.uk/wiki/BREEAM_Wiki [accessed 25 August 2019]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wikis 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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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 August 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: www.bifm.org.uk/bifm/knowledge/sustainabilityinfm [accessed 25 August 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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A

American Society of Civil Engineers (ASCE) Civil Engineering database www.asce.org/ [accessed 25 August 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 [a accessed 25 August 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 August 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 August 2019]

BBC Education [online]. Further information available at: www.bbc.co.uk/news/education/ [accessed 25 August 2019]

BBC Search [online]. Further information available at: www.bbc.co.uk/search/ [accessed 25 August 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 August 2019]

BCSC Research + Education Document listing – Now REVO [online] and available at: www.revocommunity.org/documents/list [accessed 25 August 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 August 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 August 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 August 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 August 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 August 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 August 2019]

BRE Case Studies [online]. Further information is available at: www.bre.co.uk/podpage.jsp?id=1744 [accessed 25 August 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 August 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 August 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 August 2019]

Building talks [online]. Available at: www.buildingtalk.com [accessed 25 August 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 August 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 August 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 August 2019]

CBI Construction Section [online]. Available at: www.cbi.org.uk/business-issues/construction/ [accessed 25 August 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 August 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 August 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 June 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 August 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 August 2019]

CIOB Insight Incl. Library and Information Services [online]. Available at: www.ciob.org.uk/library [accessed 25 August 2019]

CIOB – Construction Manager [online]. Available at: www.constructionmanagemagazine.com/ [accessed 25 August 2019]

CIOB – Global Construction Review [online]. Available at: www.globalconstructionreview.com/ [accessed 25 August 2019]

CIOB – Policy and Public Affairs portal [online]. Available at: <http://policy.ciob.org/> [accessed 25 August 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 August 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 August 2019]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 25 August 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 August 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.

C-Link is a procurement software company who also provide resources (incl. guides, eBooks and other materials) created to help you make more money on your construction project. C-Link [online]. Available at: www.C-Link.com [accessed 25 August 2019]

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 August 2019]

Construction Enquirer – The best-read news website in construction [online]. Available at www.constructionenquirer.com [accessed 25 August 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 August 2019].

Construction News [online]. Available at www.cnplus.co.uk [accessed 25 August 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 August 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 August 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: <https://copac.jisc.ac.uk/> [accessed 25 August 2019]. **Note:** From August 2019 Copac was replaced by the new [Jisc Library Hub Discover service](#).

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 August 2019]

COTAC Digital Bibliography [online]. Available at: www.cotac.org.uk/digital_bib/ [accessed 25 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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

August 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 August 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 August 2019]. **ERES Digital Library** [online] and available at <http://eres.scix.net/cgi-bin/works/Home> [accessed 25 August 2019]

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Great Buildings [Online]. Available at: www.greatbuildings.com [accessed 25 August 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 August 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 June 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 August 2019]

The Guardian, Higher Education network [online]. Available at: www.guardian.co.uk/higher-education-network [accessed 25 August 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 June 2019] and **HSE – Health & Safety in the construction industry** [online] is available @ www.hse.gov.uk/construction/ [accessed 25 August 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 August 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 August 2019]

Heritage Alliance's Heritage Update E-Bulletin [online]. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 August 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 August 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 August 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 August 2019] and **HEA Knowledge HUB** [online] and available at: www.heacademy.ac.uk/hub [accessed 25 August 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 August 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 August 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 August 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 August 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 August 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 August 2019]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 25 August 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 August 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 August 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 August 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 August 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 August 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 August 2019]

IWFM News – discover the latest news affecting the profession and gain expert insight and advice. IWFM News [online] Incl. Digital Magazine, **facilitate** – Informing workplace and facilities management professionals. Available at: www.iwfm.org.uk/news [accessed 25 April 2019] and www.facilitatemagazine.com/news/ [accessed 25 August 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 August 2019]. **Note:** See MERLOT below.

JournalTOCs is the largest, free collection of scholarly journal Title of Contents (TOCs) [online]. Available at: www.journaltoCs.ac.uk/index.php [accessed 25 August 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 August 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 August 2019]. **Note:** The JISC Content portal closed on 1 July 2016, however links are provided to Archives Hub and Digital Resources from this link.

JISC Library Hub Discover – Library Hub Discover replaces COPAC* and SUNCAT, offering increased coverage of university libraries along with new facilities and improved response times. The new service lays the foundations for ongoing development for search facilities alongside continuing growth in library coverage @ <https://discover.libraryhub.jisc.ac.uk/> [accessed 25 August 2019].

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 August 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 August 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 August 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 August 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 August 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 August 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 August 2019] developed and provided free access to MERLOT at www.merlot.org [accessed 25 August 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 August 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 August 2019], NBS homepage is available at: www.thenbs.com/ [accessed 25 August 2019], and NBS Knowledge [online] is available at: www.thenbs.com/knowledge [accessed 25 August 2019]

National Building Specification (NBS) > Home > Publication Index [online]. Available at: www.thenbs.com/PublicationIndex/Publisher/Index?FirstLet=B [accessed 25 August 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 June 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 August 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 August 2019]

NCE [online]. Available at: www.nce.co.uk [accessed 25 August 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 August 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 August 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 August 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 August 2019]

OLC's Online Learning – the official journal of the Online Learning Consortium [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 25 August 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 August 2019]

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 25 August 2019]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 25 August 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 August 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 August 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 August 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 August 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 August 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 August 2019]

Property Week – Commercial property news [online]. Available at: www.propertyweek.com/ [accessed 25 August 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 August 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 August 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 August 2019]

RICS > News & Insights [online]. Available at: www.rics.org/uk/news-insight/ [accessed 25 August 2019]

RICS > Upholding Professional Standards [online]. Available at: www.rics.org/uk/upholding-professional-standards/ [accessed 25 August 2019]

RICS Library services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 25 August 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/cgiisirs.exe/0/0/0/60/69/X> [accessed 25 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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 August 2019]

The web-links provided were correct at time of compilation.

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