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BUILT·ENVIRONMENT·EDUCATION

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
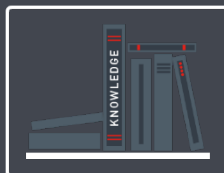
May 2019

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

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: Grainger partners with TfL to build 3,000 London homes - The biggest *Placemaking Resource* (incorporating *Regeneration + Renewal*) hitting the news are shared. In this article, Transport for London chooses the residential landlord to partner in development of eight sites across the capital, with schemes ranging from 100 to 1,500 homes.

Case Study: Making the most of urban extension

Analysis: Tackling urban air pollution

'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:

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

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

Grenfell Tower fire – Latest developments / outcomes from

- Construction Products Association (CPA) call for evidence survey
- Addressing building failures: Grenfell Tower and Edinburgh schools
- GOV.UK – Information relating to the fire at Grenfell Tower.

Other News and Views cont.

Notre Dame fire – What the Notre Dame restoration will have to consider

The Royal Institute of British Architects **(RIBA) launches gender pay guidance for practices**

Skills agenda - Unlocking construction's digital future: A skills plan for industry.

Concerns for Skills Shortages in the 21st Century: A Review into the Construction Industry

Construction Manager – Construction's gender imbalance revealed

Construction needs 168,500 more workers by 2023

Brexit/Brextension – Leaving the EU: advice for businesses

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

Brexit: Jargon-busting guide to the key terms

Latest research from CBRE - *Future of Retail 2030*. The retail industry is rewriting the laws of physics. Change is coming at an even faster rate each year. Explore the world in 2030 and the future of retail 2030.

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

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

RICS Market Surveys, March 2019 - RICS/RAU Rural Land Market Survey & Land Prices

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 –

- Wellbeing considerations for property managers
- *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.

Framing toolkit: Talking about poverty – This JRF toolkit explains what framing is why they're using it, and how you and I can put it into action

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

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

Home Builders Federation (HBF) Reports and Housing Calculator

UK Property Research – Latest research from Savills UK incl.

- UK Property Research - *Valuing Britain 2018*
- Residential research – Publication / *Spotlight: Scotland Residential* – March 2019
- Commercial research – Publication / *UK Higher Education Spotlight* – April 2019
- Rural Research – Publication / *Spotlight: The forestry market* – April 2019
- Brexit Research – dedicated pages to the implications for different sections of the UK property market of the European Union (EU) referendum result.

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

- The Construction Industry: statistics and policy, and
- Latest research briefing papers from the House of Commons Library

CIOB (Chartered Institute of Building) portal on government policy

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

Latest information on Apprenticeships incl.

- Apprenticeships starts rise for first time since levy launch
- Develop talent for your business - Further information on UCEM Apprenticeship programme
- Need to know: Apprenticeship levy FAQs
- UCEM Accreditation and recognition

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

- Further information on 'Designing Buildings Wiki', featured articles, and news,
- 'Designing Buildings Wiki' presents the most popular articles in each of the 32 subject areas, and for 2018 the most read (at over 150,000 times) was entitled, 'Types of drawings for building design',
- Fragmentation of the UK construction industry,
- A-Z of Construction industry institutes and associations, and
- Student resources including a wide range of resources aimed at students of the built environment.

The Construction Information Service - *CIS Insight 04/2019 April Edition* –

- *CIS Insight* (04/2019 Edition) – 'The ageing population: Designing for dementia'. The population's mean age is increasing; In the UK, over 850,000 people are living with dementia; Proactive vs reactive

solutions are needed. In addition to this *CIS Insight* briefly cover some statistics, look at ageing from a design and housing standpoint, and briefly cover a few ideas about designing for dementia,

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

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

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

Gain access to the latest SI research reports incl.

- *[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)

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

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

[Foster + Partners Projects](#) - Further information available and access to the following:

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

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

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

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

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

[Latest news on BIM](#) – Step-by-step guide to using BIM on projects

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

[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**

[What is The Shed? The Shed at Hudson Yards is a new centre for artistic invention in New York City that opened on 5 April 2019](#)

Property and Construction Statistics

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

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

- *[UK Residential Market Survey](#)* [(March 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: February 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

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e-Journal review

- RICS *[Modus](#)* Digital Magazine – April 2019: The Good 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](#)***,** April 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 (April, 2019) – The e-Bulletin provides current awareness and industry news over a number of built environment-related fields incl. 'Charity Commission on Garden Bridge Project 'Failure''; 'London Cultural Organisations Launch Climate Change Campaign'; 'UK Government Creates £36m Fund for British Coastal Museums and Heritage'; 'Government Trials Open Doors Project to Transform Town Centres'; **Brexit -** 'EU Settlement Scheme Fully Open'; 'Visa Free Travel After Brexit'; 'Brexit Travellers Toolkit'; 'London Mayor Calls Universities Together to Discuss Brexit'; 'CLA Supports 'Breathing Space' Offered by Brexit Extension', 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 (Jan - March 2019) incl. 'Challenges Faced by Adult Learners in Online Distance Education: A Literature Review'; 'The Complexity of Transnational Distance Students: A Review of the Literature'; 'Dropout patterns and cultural context in online networked

learning spaces', 'Open Practices in Publish Higher Education in Portugal: faculty perspectives'; ' "I find the whole enterprise daunting": Staff understanding of Open Education initiatives within a UK university'; 'But What Do The Students Think: Results of the CUNY Cross-Campus Zero-Textbook Cost Student Survey'; and 'Self-study with the Educational Technology Tell Me More: What EFL Learners do'.

- **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 1 (2019)) incl. : Cultural and International perspectives - 'Interculturality in Online Learning: Instructor and Student Accommodations'; Empirical Studies – 'What if online students take on the responsibility: Students' cognitive presence and peer facilitation techniques'; 'Exploring the relationship of background, technology and motivation variables to business school transfer intent for two mixed course format business undergraduate samples'; 'Reflection in Learning'; 'Self-Determination: Motivational Profiles of Bachelor's Degree Seeking Students at an Online, For-Profit University'; Faculty, Professional Development, and Online Teaching – 'Professional Development – Differences in teachers' attitudes between online and traditional training courses'; 'Teaching to Connect: Community-Building Strategies for the Virtual Classroom'; 'Award-Winning Faculty Online Teaching Practices: Roles and Competencies'; Integrating UDL Strategies into the Online Course Development Process: Instructional Designers' Perspectives'; Review of Literature – 'Doctoral E-mentoring: Current practices and Effective Strategies'; 'Social Network Analysis and Online Learning Communities in Higher Education: A Systematic Literature Review', and more.

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

The **Directory of Open Access Journals** (DOAJ)

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

Taylor and Francis Online incl.

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

Henry Stewart Publications incl.

- *Corporate Real Estate*,
- *Journal of Building Survey, Appraisal & Valuation,* and
- *Journal of Urban Regeneration and Renewal.*

e-Journal review archive

e-Book review

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

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

The Directory of Open Access Books ([DOAB](#))

[Latest Published Books and Journal Titles](#)

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

[Copyright and advice from the Copyright Licensing Agency](#) Ltd (CLA)

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

[Latest Copyright News](#)

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

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

Further Information, Advice, and Guidance on Data Protection

Useful online resources

Incl. Open Educational Resources (OERs)

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

2. [REVO](#) – Retail. Property. Community (formerly the British Council of Shopping Centres (BCSC)). Access to further online resources incl. Research and Education

3. [The National Building Information Modelling (BIM) Library](#)

4. [Infabode](#) – The daily resource for **Real Estate** professionals and students

5. [Royal Institution of Chartered Surveyors (RICS)](#) – is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction.

6. [Chartered Institute of Building (CIOB) Archive](#) incl. research on Innovation in construction & Sustainability

7. [Inclusive Design Hub for the Built Environment](#)

8. [Building Research Establishment (BRE)](#)

9. [Global Research Gateway](#): CBRE's online resource for Real Estate Research

10. [TRUSTDR (Trust in Digital Repositories)](#) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit.

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11. **The CIT-EA Project Creating Innovative Technology – Enhanced Assessments)** – a research project that explored ways to increase the amount of assessment in Further and Higher Education using technology.

12. **COPAC*** - COPAC exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search, you can discover the holdings of the UK's national libraries (including the British Library), many University libraries, and specialist libraries. N.B. COPAC has loaded the catalogue of the Institution of Civil Engineers (ICE) Library onto COPAC.

UCEM e-Library portrait incl. enquiry service

Student career service

UCEM Careers service

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

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

House building careers

Access to: RICS Careers

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

LATEST: Hot Topic Highlight – 5 things to know for your Spring 2019 RICS APC – April 2019

- Property Elite's latest blog post takes a closer look at 5 things to know for your Spring 2019 RICS APC Incl. **(1)** Changes to RICS Firms Regulation, **(2)** New residential legislation, Homes (Fitness for Human habitation) Act 2018, **(3)** New Streamlined Energy and Carbon Reporting (SECR) regime, **(4)** Changes to MEES from 1 April 2019 for domestic landlords, and **(5)** Changes to RICS rules relating to Professional Indemnity Insurance run-off cover. 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 22 February 2019]. It is also featured within a weekly Information News blog [UCEM Website > Home > News & Events > Blog > Lucy Roper's weekly Built Environment news round-up] @ www.ucem.ac.uk/news-events/blog/ [accessed 25 April 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

Come and meet us in Reading, London, Birmingham, Bristol or Manchester!

Prospective students are invited to meet members of the team at our open events in Reading, London, Birmingham, Bristol and Manchester.

As well as opening our Reading-based HQ, we will be heading out on the road across England ahead of this autumn's intake period.

Attendees will have the chance to speak to members of our Academic and Admissions Teams, as well as being given a tour of our Virtual Learning Environment (VLE) where all our learning resources are based.

All are welcome to drop in during the allotted time slots and refreshments will be provided too.

UCEM Events and Communications Manager, Lisa Marcham, who is leading on the events, said: "My colleagues and I are looking forward to meeting prospective students to answer any questions they may have and provide a detailed overview of what studying with UCEM is like.

"The events offer a fantastic opportunity to meet some of our Tutors, who manage our programmes and modules and teach our students, and Admissions staff, who are a student's first point of contact when going through the application process.

"It's always enjoyable getting to see our future students face-to-face and learn more about their career path and how they see UCEM playing a role in their development. I hope to see a good number of prospective students at each event. See you all soon!"

The open events ahead of the August and September deadlines for the postgraduate and undergraduate programme applications, respectively are:

- Saturday 18 May, 10.30am-12.30pm – Reading Open Morning
- Thursday 6 June, 6-8pm – London Open Evening
- Saturday 8 June, 10.30am-12.30pm – Birmingham Open Morning
- Saturday 15 June, 10.30am-12.30pm – Bristol Open Morning
- Saturday 13 July, 10.30am-12.30pm – Reading Open Morning
- Thursday 18 July, 6-8pm – London Open Evening
- Saturday 20 July, 10.30am-12.30pm – Manchester Open Morning

For more information, visit

UCEM (2019) 'Come and meet us in Reading, London, Birmingham, Bristol or Manchester' [UCEM Website > Home > Come and meet us in Reading, London, Birmingham, Bristol or Manchester!] UCEM Website [online], 9 April. Available at: www.ucem.ac.uk/news-events/news/come-and-meet-us-in-reading-london-birmingham-bristol-or-manchester/ [accessed 25 April 2019]

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Nominations now open for The UCEM Teaching Excellence Awards 2019!

Students and staff are invited to nominate individuals for The UCEM Teaching Excellence Awards (TEAs) 2019.

After the success of last year's inaugural TEAs, the Awarded are being brought back and there are now five categories for students and staff to vote in; to more than last year.

Voting opened last Friday (5th April) with nominations invited for Innovation in Teaching and Learning, Recognition of Excellence, Outstanding Contribution to Pastoral Support.

The **Innovation in Teaching and Learning Award** recognises an individual's commitment to innovative teaching and learning within their subject area or specialist; the **Recognition of Excellence Award** recognises an individual's outstanding teaching and/or commitment to learning as well as raising the profile of excellence within their faculty or team; the **Outstanding Contribution to Feedback Award** recognises an individual who has made a significant difference to the student learning experience with the feedback they give; the **Outstanding Contribution to Academic Support Award** recognises an individual who has made an outstanding contribution to the academic support of students; and the **Outstanding Contribution to Pastoral Support Award** recognises an individual who has made an outstanding contribution to the pastoral support of students.

Academic Programme Support Tutor, Sarah Brennan, who is leading on the awards for a second year, commented: "These awards give the UCEM community an opportunity to recognise the contributions that have made a difference to your learning and overall experience.

"I really enjoyed coordinating the awards last year and it's a pleasure to see the positive comments about the learning and teaching here. I am looking forward to pouring over the nominations and choosing this year's winners in collaboration with other members of the awards panel.

"I was delighted with how many students and staff nominated UCEM colleagues last year (2018) and I would ask everyone to get involved again and take this opportunity to recognise these people who have made a big difference to your learning journey."

Voting is open until Friday, May 17, and the winners will be announced during an all-staff meeting on Wednesday, June 12. Emails have been sent out with the voting link which can also be accessed from the Teaching Excellence Awards section on the VLE.

Further information is also available at:

UCEM (2019) 'Nominations now open for The UCEM Teaching Excellence Awards 2019' [UCEM Website > Home > News & Events > News > Nominations now open for the UCEM Teaching Excellence Awards] UCEM Website [online], 8 April. Available at: www.ucem.ac.uk/news-events/news/applications-open-for-ucems-new-15000-research-prize-fund/ [accessed 25 April 2019]

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100 years of UCEM &

UCEM's March centenary newsletter published

UCEM has published its March edition of the centenary newsletter today!
The edition touches on the volunteering which took place in March, features the stories of two of our most notable female alumnae in honour of International Women's Day and provides a snapshot of the milestones during the institution's second decade (1929-1939).
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 April 2019], and

UCEM (2019) – 'UCEM's March centenary newsletter published' [UCEM Website > Home > News & Events > News > UCEM's March centenary newsletter published] UCEM Website [online] 2 April. Available at: www.ucem.ac.uk/news-events/news/ucems-march-centenary-newsletter-published/ [accessed 25 April 2019]

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Applications open for UCEM's new £15,000 research prize fund

Built Environment professionals are invited to submit research proposals for the chance to receive up to £15,000 from UCEM to support their project.

The application form for the Harold Samuel Research Prize is now live for applicants to enter the idea for their project, which ideally will have the potential to provide a transformative insight into the Built Environment.

A judging panel will ultimately decide the destination of the first annual prize/s which will be announced at this year's UCEM Property Awards in October (2019).

UCEM Principal, Ashley Wheaton said: "I am hugely excited to open the Harold Samuel Research Prize fund to the public. It will be fascinating being part of the judging panel which will have the chance to decide which applicant or applicants will have the opportunity to pursue their research to the benefit of the Built Environment.

"There is huge scope for the submissions we can receive, and I would challenge anyone considering entering to think big and use the opportunity to work on issues or solutions which will make the sector stand up and take notice.

"The competition is reflective of our burgeoning research activity, and I would like to thank the Harold Samuel Education Trust for its support in inaugurating this new annual prize fund."

The deadline for proposals is 12pm on Friday, 3 May 2019. For more details and to enter, please visit

UCEM Website [UCEM Website Home > News and Events > Harold Samuel Research Prize] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/harold-samuel-research-prize/ [accessed 23 April 2019]

For further information please visit:

UCEM (2019) 'Applications open for UCEM's new £15,000 research prize fund' [UCEM Website > Home > News & Events > News > Applications open for UCEM's new £15,000 research prize fund] UCEM Website [online] 1 April. Available at: https://www.ucem.ac.uk/news-events/news/applications-open-for-ucems-new-15000-research-prize-fund/ [accessed 25 April 2019]

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His Royal Highness, The Prince Wales visits UCEM to mark its centenary year

University College of Estate Management (UCEM) is delivering to report that its Patron, His Royal Highness, The Prince of Wales, has visited the institution to mark the occasion of its centenary year.

The visit was the first for The Prince at UCEM's headquarters since it achieved independence as a Higher Education Institution through receipt of Taught Degree Awarding Powers (TDAP) in 2013 and the University College title in 2015. Founded in 1919, UCEM (formerly The College of Estate Management) was established to support the training and development of professionals in land or property-based jobs and it is estimated to have trained more than 150,000 people since it was established.

UCEM has actively collaborated with The Prince's Charities over recent years and continues to support The Prince's goals to create communities through engendering a more sustainable Built Environment.

During his tour of the site, The Prince heard how UCEM has adapted teaching to meet the needs of students over the last century including development in the last five years of its supported online education model. The Prince received a demonstration of UCEM's Virtual Learning Environment (VLE), following by a visit to is filming studios to watch student content being created.

Following this, The Prince joined apprentices in a training workshop and then was shown a display of the institution's historical artefacts. The artefacts include a book by Irene Barclay – the UK's first female chartered surveyor who studies with the institution in the early 1920s – and items relating at how UCEM supported soldiers and civilians alike during the Second World War. These artefacts will later this year be displayed at Reading Museum. As part of a year of centenary celebrations.

Finally, The Prince attended a reception of UCEM Trustees, staff, alumni and students and addressed the guests before unveiling a plaque to commemorate his visit.

During his address, he said: "I am thrilled to have this opportunity to join you to celebrate your centenary.

"A visit like this gives me an opportunity to express enormous gratitude and appreciation, indeed admiration, for all the staff who I know commit so much of their lives in a devoted way to ensuring their students can benefit from their experience."

UCEM Principal, Ashley Wheaton commented: "I am thrilled that His Royal Highness visited us for the first time in our new headquarters and he has been able to lend his support to our centenary celebrations. It has been wonderful to update him on our significant progress over the past five years, including achieving two other significant milestones: becoming a University College and gaining the ability to award our own degrees through TDAP.

"Our centenary is a huge milestone in our history and we highly value the support of our Patron. His visit is something that I am sure everyone involved with the day will never forget."

Further information is available at:

UCEM (2019) 'His Royal Highness, The Prince of Wales visits UCEM to mark its centenary year' [UCEM Website > Home > News & Events > News > His Royal Highness, The Prince of Wales visits UCEM to mark its centenary year] UCEM Website [online] 13th March. Available at: www.ucem.ac.uk/news-events/news/the-prince-of-wales-to-visit-ucem/ [accessed 25 April 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 April 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 April 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 April 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 April 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 April 2019]

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

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

UCEM website @ **www.ucem.ac.uk**

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

https://twitter.com/StudyUCEM [accessed 25 April 2019]**,**

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

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

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

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Other news

Things you need to know this week: Grainger partners with TfL to build 3,000 London 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, Transport for London chooses the residential landlord to partner in development of eight sites across the capital, with schemes ranging from 100 to 1,500 homes.

This and other stories incl.

- **Transport for London (TfL) has chosen residential landlord Grainger as joint venture partner to develop eight sites across the capital with a total of more than 3,000 homes.** The sites to be developed by the JV are close to TfL are: Armourers Court, Woolwich (up to 400 homes), Arnos Grove Underground station (up to 100 homes), Cockfosters Underground station (up to 300 homes), Hounslow West Underground Station (up to 350 homes), Limmo Peninsula, Canning Town (up to 1,500 homes), Montford Place, Kennington (up to 100 homes), Nine Elms Underground station (up to 400 homes), and Southall Siding, Ealing (up to 400 homes).

- **Eight sites in London are being made available for development by smaller housebuilders under the London mayor's small sites, small builders programme.** The sites, which are being brought forward by Transport for London (TfL) will each deliver between one and 30 homes, and are located in the boroughs of Richmond, Ealing, Newham, Bexley, Hounslow, Lambeth and Waltham Forest. Together, they are expected to provide up to 90 homes. Ten other small TfL sites, located across seven boroughs, were launched in February last year as part of a pilot.

- **Regeneration of a key site in Wolverton, Milton Keynes, has taken a step forward with a deal that paves the way for demolition of a 1970s shopping and leisure centre.** Love Wolverton, a partnership of developer TOWN and Swedish builder Trivselhus, has acquired the Agora Centre and aims to redevelop the site with a mixed-use scheme, providing more than 100 homes, plus shops and services. Around half of the homes could be family properties, built using the Trivselhus timber building system.

- **Housebuilder Galliford Try Partnerships has signed a partnership deal with Homes England that is intended to deliver more than 850 homes across a series of sites.** The national partnership is expected to deliver more than 850 homes across a series of sites. The national partnership is expected to deliver: 360 home extra-care development, 116 homes in Cannock, Staffordshire, and 60 homes in Blandford Forum, Dorset. First planning applications for the proposals are expected to be submitted this month (see publication date).

- **Affordable housing provider L&Q is in talks to acquire Trafford Housing Trust, the housing association formed from Trafford Council's transfer of its stock.** L&Q sees the north west housing association as a gateway to the region and aims to develop 20,000 homes there over the next decade. The two already have a joint venture partnership, which has brought through 679 housing starts since April 2017.
- **Social landlord Clarion Housing Group has sealed a deal to acquire three sites in Kings Hill, Kent, which have planning permission for 166 homes.** Clarion has bought the sites from Rouse Kent Residential, a joint venture of Kent County Council and investor developer Liberty Property Trust. Two thirds of the homes will be affordable investor developer Liberty Property Trust. Two thirds of the homes will be affordable.

Source: Smit J (2019) 'Need to know: Grainger partners with TfL to build 3,000 London homes', **Placemaking Resource** (incorporating *Regeneration + Renewal)* [online] 3 April. Further information available at: www.placemakingresource.com/article/1580983/need-know-grainger-partners-tfl-build-3000-london-homes [accessed 25 April 2019]

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Case study: Making the most of urban extension

- Oxford's Barton Park is a large-scale housing development that is designed to bring benefits to its residents and to those living around it.

To the north east of Oxford a new community is taking shape, which will make a significant contribution to the city's housing pipeline. Barton Park, which is located beside the A40, will eventually be a neighbourhood of 885 homes.

The community is being developed by Barton Oxford, a joint venture between Oxford City Council and Grosvenor Developments. As a rare large-scale housing developing in a constrained city, the project is important in its own right and is designed as an exemplar sustainable community. The project is important in its own right and is designed as an exemplar sustainable community. The project partners also see the development as an opportunity to deliver broader benefits for residents in the surrounding neighbourhoods of Barton, Headington and Northway.

Challenges

"It is a huge challenge for local authorities to deliver large-scale housing projects," says Councillor Mike Rowley, board member for housing at Oxford City Council. Its 36-hectare site in Barton potentially had significant infrastructure costs, so public-private partnership has unlocked it for development, says Rowley, "bringing out land and expertise together with Grosvenor's capacity and capital to deliver the homes people need faster and to a higher design".

The site is located next to an existing social housing estate, built in the 1940s, which has been one of the most deprived areas of Oxford. A range of activities and improvement are being put into place to enhance social cohesion and the local environment for the benefit of the new and existing residents. Alex Robinson, director of development for Grosvenor Britain & Ireland, says, "We are not only delivering against the government's housing agenda but helping to tackle important social and economic challenges."

Solution

The public private partnership has a master developer role, selling services plots to housebuilders, which ultimately deliver homes in accordance with the site's masterplan and design code, created by planning and design consultant Terence O'Rourke, working with Glenn Howells Architects.

The first phase of development is designed by architects Pollard Thomas Edwards and Alison Brooks Architects and is being delivered by housebuilder Hill. This phase comprises 237 homes, 95 of which are affordable. Residents of the first phase of private housing, called Mosaics, began moving into their homes mid-last year. Housebuilder Redrow is delivering a second phase.

In all, 40 per cent of the site's homes will be affordable, in the ownership of the council's own housing company, Oxford City Housing (OCHL). The first affordable homes were handed over last month, and more than 20 families have moved into the one, two- and three-bedroom properties to date.

Barton Park's new facilities, including a primary school and food store, will serve both new and existing neighbourhoods, and existing green assets are also being enhanced for all. A 4-ha linear park in connecting the existing green infrastructure at Barton and Northway, while existing allotments are being integrated into the development. Greenways being created across the site are intended to further enhance connectivity and movements.

In March 2016 the site was selected as one of NHS England's Health new Towns, and participation in this programme has provided the impetus for an increased focus on health and wellbeing for new and existing residents. The programme was helped to provide backing for community led activities in Barton, such as

breakfast club for children, as well as the development of a wayfinding project, including dementia-friendly trails, linking Baron with the new development.

Alongside housebuilding, Barton's neighbourhood centre is being refurbished. The centre houses a range of service such as a GP surgery, Community café, sports facilities, policy office and youth club, and the refurbishment has included expansion of the GP surgery to accommodate new residents. This is part of a broader council regeneration programme that has seen some council homes in the area refurbished.

Source: Smit J, (2019) 'Case Study: Making the most of urban extension', **Placemaking Resource** (incorporating *Regeneration + Renewal)* [online], 13 March. Further information available at: www.placemakingresource.com/article/1579010/case-study-making-urban-extension [accessed 25 April 2019]

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Analysis: Tackling urban air pollution

- Some cities are looking to congestion charging to limit air pollution, but there is also a need to focus on design of the city infrastructure and building, writes the author of this article.
Ten hospitals in the most polluted districts of London are being equipped with monitors that will check on air quality levels. The monitors will help hospitals to protect patients who might be most vulnerable to the damaging impacts of air pollution by, for example, directing patients to entrances where air pollution levels are lowest. "Monitoring the peaks in pollutants is an incredibly important tool to help hospitals identify and tackle the activity that causes dangerous pollution levels to accumulate," says Chris Large, senior partner at Global Action Plan, a charity that worked with hospitals to create the clean air hospital to create the clean air hospital network.
Such interventions are much needed, as a 2017 study by King's College London and the UK Health Alliance on Climate Change found that 60 per cent of hospitals and NHS facilities in inner London are located in areas that exceed the legal limit for pollutants.
The monitoring programme with the 10 hospitals is the latest move in the Breathe London initiative, which was developed by the London mayor and the C40 Cities environmental alliance. The gathering of data goes hand in hand with other measures, notably the introduction of the ultra-low emission zone (ULEZ) in the central London congestion charge zone, which comes into effect next month (see publication date).
Other cities and major urban property owners are starting to get to grips with the challenges presented by air pollution. There are clear health imperatives for doing so, as long-term exposure to pollutants could be contributing to up to 40,000 deaths a year, according to the Royal College of Physicians and the Royal College of Paediatrics and Child Health. The UK government's poor record in addressing pollution levels led environmental campaign group, ClientEarth, to mount a successful legal challenge requiring action. This has resulted in local authorities being required to produce plans for action to bring pollution below legal limits and to government providing funding support to enable local authorities to help people and businesses affected. The government published its own clean air strategy in January and aims to follow that up with its first national air pollution control programme next month (see publication date).
Looking beyond congestion charging
The capital is pioneering within its introduction of an ULEZ, but others are looking to follow suit and introduce charges to dissuade polluting vehicles from entering their city centres. Oxford City Council and Oxfordshire City Council are proposing to introduce a zero-emission zone in Oxford's city centre, and clean air zones are on the way in a number of other cities.
This month (March 2019) Public Health England published a review outlining ways of improving air quality. This looked at a range of options, including establishing low emission zones (LEZs) or clean air zones (CAZs), providing infrastructure to facilitating walking and cycling and introducing urban greening.
"Using subsidy or congestion charging is a quick fix, but the long-term solution lies in making buildings and the spaces between them more accessible and attractive, with sustainable travel, designing places to be attractive, and giving consideration to health and wellbeing factors," says Rob Miller, associate with consultant Greengage Environmental.
Public Health England's review advocates what it calls a "net health gain" principle, saying that new development or proposals for change to existing developments should benefit public health, being designed to reduce pollution, support walking, cycling and clean public transport, and provide charging points for future

ultra-low emission vehicles. Delivering on the net health gain principles could also mean looking to such interventions as clean energy technology and energy efficiency measures in buildings.

The **Review of interventions to improve outdoor air quality and public health** makes the case for such a principle to be built into national and local planning frameworks. "Without it being in policy it is hard to find a driver to do it," says Miller.

However, the growing interest in healthier living and working environments inside buildings is already pointing to an increasing focus on indoor air quality, and apps and devices are enabling everyone to get better informed about the air they breathe as they walk or cycle across a city. "Air quality – both inside and around buildings – is certainly on the agenda more and is something we raise as a key sustainability indicator," says Miller.

GOV.UK, Public Health England (2019) 'Guidance: Improving outdoor air quality and health: review of interventions' [GOV.UK > Home > Health and social care > Public health > Health protection] GOV.UK [online], 11 March. Available at: www.gov.uk/government/publications/improving-outdoor-air-quality-and-health-review-of-interventions [accessed 25 April 2019]

Further information is available at:

Smit J (2019), 'Analysis: Tackling urban air pollution', Placemaking Resource, Incorporating *Regeneration and Renewal* [online], 27 March. Available at: www.placemakingresource.com/article/1580377/analysis-tackling-urban-air-pollution [accessed 25 April 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 April 2019]

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Latest Data Protection News & Research:

Data Protection and Brexit – is your organisation prepared?

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

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

Related Links:

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

https://dcmsblog.uk/2019/01/data_protection_and_brexit_is_your_organisation_prepared/ [accessed 25 April 2019]

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

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

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

LATEST Data Protection related news

Google hit with £44m GDPR fine over ads

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

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GDPR - What's new?

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

March 2019 - The European Data Protection Board (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)

The EDPB has also published the following Guidelines for consultation:

- Guidelines on Codes of Conduct and Monitoring Bodies under Regulation 2016/679 – Closing 2 April 2019.

December 2018 – ICO have published a 'Guide to Data Protection', combining existing guidance on the GDPR and law enforcement regimes with new guidance explaining some basic concepts, how the DPA 2018 works, and which regime applies. They have expanded guidance on scope and key definitions in the guide to law enforcement processing. They have also expanded guidance on contracts, published guidance on controllers and processors and published detailed guidance on controllers and processors and contracts and liabilities.
November 2018 - ICO published detailed guidance on encryption.
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 April 2019]
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Related resource links and further information on Data Protection:

Data laws made fit for the digital age

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

What is GDPR?

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

In relation to UCEM

> **In relation to UCEM,** we are fully committed to protecting the rights of individuals to have their personal data collected and stored securely and used for only legitimate and lawful purposes for which their consent has been sought. UCEM complies with the Data Protection Act 1998 and 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 April 2019**]**

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Construction firms hit by massive summer surge in cyber-attacks

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

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

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

Hackers gained control of systems to create mayhem by accessing confidential information, unleashing ransomware, or planting "cryptominers" on servers to force them to use their CPUs to create digital currency.

A common attack uses the Emotet trojan to obtain enough financial information to access a company's bank account.

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

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

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

The report comments that companies can take simple steps to reduce their exposure to cyber-attacks.

It says: "The reason attacks continue is because most organisations have internal systems they hesitate to update for fear it will change or break something.

"These systems are sometimes accidentally exposed to background internet radiation which includes a firehose of exploits. Or, they are unaware that a patch if necessary or underestimate the gravity of failing to patch.

"This is an easily rectifiable problem that liners for many."

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

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

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Grenfell Tower - Latest developments / outcomes from

Construction Products Association call for evidence survey

The publication of Dame Judith Hackitt's **Independent review of Building Regulations and Fire Safety** issued an important and resounding call for change across the entire construction industry. A number of challenges were identified about how we ensure our buildings keep people safe.

Construction products were not exempt from these challenges. One of the painful lessons we learnt as a sector from the Grenfell disaster was that construction product standards must be made more robust and product information standardized and presented in a less ambiguous format. Regulatory frameworks need to be in place with an accompanying feedback loop and necessary sanctions to make sure products perform in a building as they are supposed to.

In response to Hackitt's review, government has committed to creating new governance arrangements for building regulations guidance and expressed a desire to work closely with **Construction Products Association (CPA)** and our industry more widely to 'improve transparency of the performance of products.'

It's easy to frame the spirit of this review as government fixing failures with the construction products industry. To characterize it as such would be too simplistic, however. Industry has not only been reactive but both proactive and collaborative in addressing the issues highlighted in the report, particularly in relation to fire performance and the marketing of product information.

The construction products sector has already begun driving through change for higher ethical standards in product marketing information. This has been evident most recently with the setting up of the CPA's marketing Integrity Group (MIG), chaired by Adam Turk from Baxi, one of Europe's largest manufacturers of water heating systems.

The MIG has been working on how to ensure the presentation of consistent and unambiguous product information to the entire construction supply chain. Achieving this level of clarity for product information is vital for safety, particularly when a product is used as part of a more complex system on a building or structure.

A key aspect of the MIG's work is a recent '**Call for Evidence' survey** which invites responses from anyone who makes use of construction product information – architects, contractors, merchants and maintainers alike. It's designed to build an evidence base for changes to how product information is presented, in line with government objectives outlined in response to the Hackitt review.

Further information is available via: a

Source: Cousins S (2019) 'Timber faces the heat of combustibles ban', *Construction Manager* [online], 30 January. Available at: www.constructionmanagermagazine.com/insight/timber-faces-heat-combustibles-ban/ [accessed 25 April 2019]

Related Links:

Hackitt Revew

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

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

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

Building a safer future: an implementation plan

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

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

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&

Addressing building failures: Grenfell Tower and Edinburgh schools

Introduction

It seems that the biggest concerns facing the built environment sector today are investigating what has gone wrong with our systems leading to building failures which have resulted in a tragic loss of lives. Chartered Institute of Architectural Technologists (CIAT) members have been at the forefront in attempting to resolve these issues and improving procedures and standards from education to practical implementation.

Notably, CIAT is actively participating through Construction Industry Council Working Groups and directly with government to review the results of the **Hackitt Report on Building Regulations and Fire Safety** as a result of the Grenfell Tragedy. These are prominent in the outcomes of the **Cole Report: Edinburgh schools,** instigated by the failure in Edinburgh Schools buildings. The similarities that in issues that need addressing are quite evident. Further information is available at:

Source: 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 8 April 2019]

The full article **'Addressing Building Failures: Grenfell and Edinburgh Schools'** 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 8 April 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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Collection: Grenfell Tower

GOV.UK – Information relating to the fire at Grenfell Tower

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

- Advice for building owners: large-scale wall system test,

- Grenfell Recovery Taskforce: terms of reference,

- Explanatory note on large scale cladding systems testing,

- Grenfell Tower fire: handling immigration cases,

- Explanatory note on safety checks and testing,

- HB Bulletin U3/2017: Discretionary Housing Payments to former residents of Grenfell Tower, and

- Grenfell Tower fire: support for people affected (see below).

Government information incl.
- **Support for people affected by the Grenfell Tower fire**

Information about the support available for people affected by the Grenfell Tower fire can be found (as mentioned above) – *Source:* GOV.UK (2017), Department for Communities and Local Government and Home Office, Park of: Grenfell Tower, published: 15 June 2017, last updated: 1 August 2017, Guidance: *Grenfell Tower fire: support for people affected* [online]. Available at: www.gov.uk/guidance/grenfell-tower-fire-june-2017-support-for-people-affected [accessed 25 April 2019]

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

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

Further Related Links:

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

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

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

Notre Dame fire – What the Notre Dame restoration will have to consider

- Digital technology and a recent laser scan can help the cathedral's dauting renovation challenge, says Rebecca Thompson, past president and heritage specialist.
It is with great sadness that we watched the devastating fire unfold at Notre Dame in Paris, but a sense of great joy to see how people united during such challenging times.
The custodians of Notre Dame have some tremendous challenges ahead, but already we are seeing generous responses to this tragic fire. It was pleased to read of **the laser scan of Notre Dame** carried out by the late Professor Andrew Tallon of Vassar College in New York.
The intention of the laser scan would have been to record the condition of the building, possible to record movement, to assist with maintenance and restoration schedules with the archaeological recording and building pathology. I don't imagine the scan was expected to play a huge part in disaster recovery although it may be able to play a hugely positive and influential role in the proposed restoration works.
Surprisingly, few historic buildings have detailed construction plans, even historic scale drawings showing plans and elevations, so the laser scan will enable the project planning and evaluation of the damage in a way that historic drawings can't.
Laser scans can be linked to GPS and so provide extensive information in a point cloud format, enabling the software user to 'fly' through the building and view it from all angles.
With such an extensive and challenging restoration project, the heritage skills of all crafts will be required, and they could be assisted by the available technology. The laser scan may link to CNC cutting machines for timber and stone replacement, which may assist the setting out and cutting of new materials.
The digital imagery also enables communication and coordination of all the service required within a cathedral including power and lighting, alarm systems, lightning protection, sound systems etc.
There is an opportunity for the next generation of heritage professionals to watch this restoration project and understand the significance of this beautiful structure, specifically its importance in the international community.
The custodians will require time to recover before starting this enormous task, but our prayers and professional skills are with them/
Thompson B (2019) 'What the Notre Dame restoration will have to consider', *Construction Manager* [online], 17 April. Available at: www.constructionmanagermagazine.com/news/what-notre-dame-restoration-will-have-consider/ [accessed 25 April 2019]
Related Links:
Reuters (2019) **'France to open redesign of Notre-Dame's spire to international architects'** [online]. Available at: https://uk.reuters.com/article/uk-france-notredame-spire/france-to-open-redesign-of-notre-dames-spire-to-international-architects-idUKKCN1RT19B [accessed 25 April 2019]
Baynes C, Sharman J, Osborne S, and Rahim Z (2019) 'Notre Dame fire: Parisians hold huge vigil at cathedral as monuments around the world light up in solidarity', *The Independent* [online], 17th April. Available at: www.independent.co.uk/news/world/europe/notre-dame-fire-live-cathedral-paris-damage-cause-france-latest-updates-a8871851.html [accessed 25 April 2019]

- Further information as well as access to a photo library showing: Notre Dame Fire: What was lost and what was saved is provided via the above-mentioned source link as well as a timeline showing how the fire unfolded.

GCR Staff (2019) 'International architects invited to design new spire for Notre Dame', *Global Construction Review* [online], 17 April. Available at: www.globalconstructionreview.com/news/international-architects-invited-design-new-spire-/ [accessed 25 April 2019]

Ducan J, CBS This Morning (2019) **'3D scans of Notre Dame could prove pivotal in its reconstruction', YouTube [video],** 17 April. Available at: www.youtube.com/watch?v=sQmlxPVtOGk [accessed 25 April 2019] **[3m 24s]**

National Geographic (2015) **'Laser Scanning Reveals Cathedral's Mysteries', YouTube [video]**, 23 June. Available at: https://www.youtube.com/watch?time_continue=12&v=jAi29udFMKw [accessed 25 April 2019] **[4m 10s]**

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The Royal Institute of British Architects (RIBA) launches gender pay guidance for practices

The Royal Institute of British Architects (RIBA) has published, on 4 April 2019, guidance for architecture practices on closing the gender pay gap, as part of its commitment to support a diverse and inclusive profession.

The RIBA's guidance – **'Close The Gap: Improving Gender Equality In Practice'** – outlines a range of effective best practice measures and initiatives.

The RIBA guidance is accompanied by a **#CloseTheGap pledge** which has been developed and signed by a core group of RIBA reporting practices, a group of large practice who are required by legislation (as they are above the threshold of 250 employees) to disclose their gender pay gap data. The pledge commits practices to several actions including operating fair, equal and unbiased recruitment and promotion procedures; supporting flexible working patterns and appointing a Diversity Champion or Taskforce.

The RIBA is encouraging all Chartered Practices to sign up to the pledge, as a demonstration of their commitment to improving gender equality, broadening opportunities and ensuring that individual career prospects are independent of gender, race, background or any aspect of an individual's identify.

The RIBA is also encouraging practices of all sizes voluntarily to evaluate and share their Gender Pay Gap data and, more importantly, to make the most effective recommended actions to improve their gender equality for the benefit of the wider profession.

Source: RIBA (2019), 'RIBA launches gender pay guidance for practices', RIBA [online], 4 April. Available at: www.architecture.com/knowledge-and-resources/knowledge-landing-page/riba-launches-gender-pay-guidance-for-practices [accessed 8 April 2019].

Related Link:

RIBA (2019) Gender Pay Gap Guidance [online]. Further information and resources are available at: www.architecture.com/knowledge-and-resources/resources-landing-page/gender-pay-gap-guidance [accessed 8 April 2019]

Skills agenda

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 April 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 April 2019]

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 April 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 April 2019]
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Construction's gender imbalance revealed

Figures from the Office of National Statistics, highlighted by Construction Products Association (CPA) economics director Noble Francis, show that of the 2.4 million people employed in UK construction in the fourth quarter of 2018, 2.1 million were men and just 0.3 million were women.

UK construction employment by gender and occupation in 2018:

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

Related Link:
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 April 2019].

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Construction needs 168,500 more workers by 2023

- The construction industry will create an additional 168,500 jobs by 2023, 10,000 more than was predicted a year ago (see publication date).

That's according to the Construction Industry Training Board (CITB), which said it expected construction to continue to expand despite the uncertainty of Brexit. CITB anticipates that construction employment will reach 2.79 million in 2023, 2% lower than its peak in 2008.

CITB's annual Construction Skills Network (CSN) report, a five-year forecast into the industry's skills needs, also predicted growth across Great Britain of 1.3% over the period, down a third of a percent on what it forecast last year. The forecast is based on the scenario that the UK agrees an exist deal with the EU.

The biggest increase is expected in public housing, which is pulling ahead as infrastructure slows. Financial support from government at both local and national levels is encouraging a 3.2% growth rate in public housing, up 0.5% since last year's forecast. Infrastructure is set to grow by 1.9%, down from 3.1% predicted in last year's forecast (see publication date), as a result of Brexit uncertainty and by investors stalling construction of the Welsh nuclear power plant Wylfa in January 2019, CITB said.

Meanwhile, commercial construction is "significantly declining" due to investors taking a cautious stance in the face of Brexit. The forecast expects the sector to drop sharply in 2019 then level out by 2023, with zero growth anticipated overall. However, CITB said the housing repair and maintenance sector appears to be benefitting from a quieter property market as home owners halt plans to sell up and instead focus on improving their current properties. By 2023, the sector is expected to have grown by 1.7%.

Steve Radley, policy director at CITB, said: "This forecast aptly reflects the uncertainty, particularly associated with Brexit, that we're seeing across the wider economy. Currently, concerns around Brexit are weighing on clients and investors, creating a knock-on effect on contractors and their ability to plan ahead.

"However, assuming that a deal is agreed, we expect low but positive growth for construction. Even as infrastructure slows, sectors like public housing and R&M are strengthening. This will see the number of construction jobs increase over the next five years, creating growing opportunities for careers in construction and increasing the importance of tackling the skills pressures we face."

Source: Construction Manager (2019), 'Construction needs 168,500 more workers by 2023', *Construction Manager* [online], 25 February. Available at: www.constructionmanagermagazine.com/news/construction-needs-168500-more-workers-2023/ [accessed 25 April 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 April 2019]

Related Links:
Source: Construction Manager (2019) 'Construction no-deal Brexit plan launched', *Construction Manager* [online], 22 February. Available at: www.constructionmanagermagazine.com/news/construction-no-deal-brexit-plan-launched/ [accessed 25 April 2019]
Gerrard N (2019) 'Ardmore sounds Brexit warning amid £113m turnover drop', *Construction Manager* [online], 11 February. Available at: www.constructionmanagermagazine.com/news/ardmore-sounds-brexit-warning-amid-113m-turnover-d/ [accessed 25 April 2019]
Gerrard N (2019) 'Construction output forecast slashed amid Brexit uncertainty', *Construction Manager* [online], 20 January. Available at: www.constructionmanagermagazine.com/news/output-forecast-downgraded-amid-brexit-uncertainty/ [accessed 25 April 2019]
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Falling sales leave house price hopes at a 20-year low 'thanks to Brexit uncertainty', says RICS estate agents

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

Hopes for the housing market have hit a 20-year low, a study has found, after sales slowed to a crawl. And surveyors across the country expect the slump to continue as buyers are put off by **Brexit** uncertainty, research by the Royal Institution of Chartered Surveyors (RICS) has found.
RICS recorded a difference of 28 percentage points between the number of surveyors who believe sales volumes will continue to fall and those who expect them to go up – the biggest gap since records began in 1998. It means property professionals in every region except the North West do not expect the market to recover in the near future.
In December, a majority of surveyors reported declining house prices for the fourth month in a row. However, RICS added that it appeared to be Brexit uncertainty that was denting confidence, as expectations were better beyond spring (see publication date).
The report said: 'The twelve-month outlook is a little more upbeat, suggesting that some of the near-term pessimism is linked to the lack of clarity around what form of department the UK might make from the EU in March 2019.'
The RICS report polls its member estate agents around the UK and is seen as a key barometer for the housing market.

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

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

Further information is available at:

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

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

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Latest research from CBRE - *Future of Retail 2030*

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

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

(1) Enhanced interaction will drive engagement through virtual and augmented reality, holograms and haptic, **(2)** City centers will be vehicle-free, **(3)** Open-air retail centers will grow in popularity,

(4) 3-D printing will serve as invisible inventory, **(5)** The circular economy will become part of the way people interact with businesses, **(6)** Specialized stores will re-emerge as a force in retail,

(7) There will be a resurgence of local markets and experiences, **(8)** A dynamic shift will occur in how goods are produced, **(9)** Trust and transparency will become objective – and measurable,

(10) Physical stores will be reimagined via digital technology, **(11)** Retailers will focus on understanding customer emotions, **(12)** Consumers will expect their loyalty to be rewarded,

(13) Storefronts will become virtual stores after hours, **(14)** Health-focused offers and products will be much more prominent, **(15)** Personal enhancement services will require more space,

(16) Delivery will be when and where you want it – without you even realizing it, **(17)** The High Street will look very different to today, **(18)** Customization will become the new loyalty,

(19) The sharing economy will be commonplace, **(20)** Curating the offer will be a basic expectation, **(21)** Returns will be made simple, **(22)** Delivery tracking information will be precise,

(23) Flexible lease structures will be far more common, **(24)** Consumers will be able to experience a purchase before making payment,

(25) The focus of gas stations globally will shift as they become important mini-logistics hubs and as fueling needs, **(26)** Smartphones will no longer exist, but mobile commerce will increase,

(27) Independent stores and food and beverage operators will be more prevalent, **(28)** The traditional in-store physical point of purchase will disappear,

(29) Fitting rooms help as opposed to hinder the shopping experience, **(30)** Wellness establishments will flow in number, **(31)** Shopping centers will become simply "centers",

(32) Retail will be leisure, **(33)** The power of prediction has enabled decision making to be outsourced to machines, **(34)** Personal ownership of cars has dramatically reduced,

(35) Customer experiences are specific not generic, **(36)** Buying what you want, where and how you want is the norm, **(37)** Stores have become showrooms and experiential brand centers,

(38) Pure play is no longer an important part of retail, (39) Robotics and automation will replace many jobs in the retail sector, and **(40)** Competition for people's disposable income has increased.

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

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

Related Links:

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

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

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

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

A District Information Model and Management system for Energy Reduction (DIMMER) was developed by Arup to present real-time energy consumption and production (electricity, heating, cooling), analytics, and *visualisation* on a web-based interface incorporating 3D models and interactive client applications.

The objective of DIMMER was to make district energy production and consumption information available using a natural, visual, web-service oriented interface to increase energy efficiency, load balancing, and energy market flexibility. The results from research undertaken by Arup enhanced 3D modelling, visualization, and user interaction technologies by enabling user profiling and feedback to promote energy efficient behaviours.

The DIMMER project focused on unlocking the potential of smart technologies. Integration of heterogeneous monitoring systems exploiting middleware technologies was an important aspect of the DIMMER project. Virtual models of districts were created, based on *BIM*, to enable simulation and interactive visualization of energy flows.

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

Project Impact

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

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

Arup (n.d.) *Smart Cities District Information Modelling and Management for Energy Reduction* [online], London: Arup. Available at: www.arup.com/projects/smart-cities-district-information-modelling-and-management-for-energy-reduction [accessed 25 April 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 1 April 2019, the topics covered include.

- **Residential property –** incl. International Evidence Review on Housing Taxation

- **Facilities & management –** incl. Big data: a new revolution in the UK facilities management sector

- **Environment –** incl. Cities, health and well-being

- **Rural –** incl. RICS/RAU Rural Land Market Survey and Land Prices (see further information below)

- **Property management –** incl. The implications of extending permitted development rights in England

- **Property technology –** incl. BIM for Project Managers

- **Planning & development –** incl. Leadership in the UK rail industry

- **Quantity Surveying & construction –** incl. Impact of extending developments rights to office-to-residential change

- **Sustainability –** incl. Changing priorities in investor decision-making: the sustainability agenda

- **Commercial property –** incl. Perspectives on Global Real Estate Investment

- **Infrastructure –** incl. Valuing Unregistered Land

- **Valuations –** incl. The Future of Valuations

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

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

RICS Market surveys – RICS/RAU Rural Land Market Survey & Land Prices

To access and download **Analysis and discussion papers,** please visit
Source: RICS website > Home > News & Insight > Research > Market surveys > **RICS/RAU Rural Land Market Survey & Land Prices**
Incl.
RICS (2018) *RICS/RAU Rural Land Market Survey H1 2018* [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/ricsrau-rural-land-market-survey--land-prices/ [accessed 1 April 2019]

- Supply of farmland holds broadly steady in H1
- Contributors highlight uncertainty weighing on market activity
- Transaction based price index inflated by a few large deals.

RICS (2018) *RICS/RAU Farmland Market Directory of Land Prices: H2 2018* [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/ricsrau-rural-land-market-survey--land-prices/
[accessed 1 April 2019]
Further information and access to the report in full is available at:
Source: RICS (2019) *RICS/RAU Rural Land Market Survey & Land Prices* [RICS website > Home > News & Insight > Research > Market surveys > **RICS/RAU Rural Land Market Survey & Land Prices**] RICS [online]. Available at:
www.rics.org/uk/news-insight/research/market-surveys/ricsrau-rural-land-market-survey--land-prices/
[accessed 25 April 2019]

Selecting benchmark building prices

- The Building Cost and Information Service (BCIS) average prices section provides a statistical analysis of the costs projects, which can be used to provide a budget for a project. The costs can be adjusted for location and date.
Care should be taken in selecting an appropriate figure; the factors to consider are:
- The likely design and specification expectations of the clients – are they typical for the type of building or are they likely to be more or less complex?
- The current market in the locality – are the existence of other large projects likely to influence the demand and supply of labour and materials?
- The constraints of the site – will the physical characteristics of a particular site, its size, accessibility and topography influence the design or ease of construction.
- Any anticipated difference between the main contractor's preliminaries, overheads and profit for the current scheme compared with an average scheme.

The statistics presented for a building type may include mean, media, upper and lower quantiles, deciles and overall range. A scatter diagram and histogram can also be found where the sample is at least 10.
While an average figure is provided by the mean or median, it will usually be more appropriate to pick a cost from within the range, to reflect the project's likely position within the distribution of costs for a building type, by considering the factors listed above.
A **video** showing how to use the BCIS average prices sections is also available via -
RICS (2018) 'BCIS – Guide to project analyses', YouTube [video]. Available at:
www.youtube.com/watch?v=lFkipnh10Qs&utm_source=ricsmembership&utm_medium=email&utm_campaign=bcisprojectanalysisvideo [accessed 25 April 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 April 2019]

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: https://www.rics.org/uk/news-insight/latest-news/ [accessed 25 April 2019].

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Tackling mental health and wellbeing within the construction industry

Builder&Engineer (2017)

Wellbeing considerations 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 April 2019]

Introduction – Florence Nightingale told hospitals that they needed more windows, better ventilation, improved drainage and more space. This was great advice in the early days of better, healthier buildings, but today the challenges are far greater. Employers are pushing for healthier, more comfortable working environments for their staff, which has made those in the property management sector alive to the need for a wellbeing strategy for their buildings.

The healthy building movement – There are two main drivers of the healthy building movement. The first is the clear evidence that the working environment impacts employee productivity, providing employers with a financial case for being concerned about workplace wellbeing. The second is that the next generation of employees, Generation Z, are not willing to compromise on health or happiness and demand nothing less than a work environment where wellbeing matters. For employers to attract, and keep, the best talent, a health building is a must. Property managers who are proactive about wellbeing in their buildings are more likely to attract new tenants, as many organisations now consider lifestyle and wellbeing factors when selecting offices. Even property managers who have existing tenants and are not looking for new ones cannot ignore it. If they do, there is a risk that their tenants will question their management stance and force wellbeing to be considered and acted upon in a more reactive way. At worst they will look for new offices.

It is likely to become common practice in the near future for property managers to have a separate wellbeing policy for their buildings. Elements of wellbeing are already addressed in existing policies such as health and safety and sustainability, but these do not typically take a holistic view, nor do they go far enough. There are a number of voluntary wellbeing standards for properties that are emerging, similar to those we have seen for energy and sustainability. These allow property managers to go above and beyond the minimum requirements and demonstrate their commitment to the cause. Property managers should also consider that as smart technology continues to evolve, they could find themselves being held to account by their occupiers. This is because, in the future, wearable technologies like smart watches may be able to tell us about environmental wellbeing factors such as air quality, lighting, humidity and noise levels. Since we already have devices that track personal wellbeing parameters such as blood pressure, steps and sleep patterns, it seems natural that interest will soon turn to measuring quality of our environment. When that happens, property managers will need to make sure that their buildings conform to the wellbeing standards their occupiers expect.

It is clear that having a wellbeing strategy in place is essential for successful property management. The next question is how should managers approach developing one and what factors should they consider?
Areas covered incl.

- **Understanding the building and its stakeholders**
- **Defining wellbeing responsibilities**
- **Gathering extra data and putting it to good use**

- **New versus existing buildings**

and further reading and related articles.

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 April 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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Related links incl.:

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 April 2019].

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

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

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

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

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

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Revaluing Parks and Green Spaces – <u>Measuring their economic and wellbeing</u>

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 April 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 April 2019]

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Framing toolkit: Talking about poverty

- Compassion and justice are values that underpin our society – we believe in helping each other out when we're having a tough time. We need to make sure those values underpin the way we talk about poverty too.

At the Joseph Rowntree Foundation (JRF), they want to inspire action and change to solve UK poverty, but they know there's a lot of work to do if more people are to understand it and call more loudly for solutions.

To help with this challenge, we're changing the story we tell about poverty, using framing recommendations from the FrameWorks Institute's research into public attitudes to poverty in the UK, involving 20,000 people.

This toolkit explains what framing is, why we're using it, and how you can put it into action yourself.

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

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

JRF Housing Related Links:

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

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

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

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

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

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

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

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

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

- Surging mortar sales indicate that house-building in Great Britain remained buoyant in 2018 but faltering concrete sales suggest an industry in limbo, waiting for planned infrastructure projects to get going.

Latest data from the Mineral Products Association (MPA) show volumes of mortar sales at their highest level since records began in 2004.

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

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

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

"Elsewhere, the picture for the industry is more muted as we wait for several major infrastructure schemes to make the leap from the planning phase to the construction site. Policymakers and clients need to be mindful that the critical mineral resources that underpin our built environment don't flow from a tap, and preparations to ensure a ready supply need to be early in a project's lifecycle."

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

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

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Residential Research

Publication | Spotlight: Scotland Residential

- Scotland's market will outperform the rest of the country, underpinned by a lack of supply, the value gap and economic growth in Edinburgh and Glasgow

Scotland's residential market remains unfazed by the political uncertainty currently affecting the rest of the country. The number of transactions increased by 2% at the end of last year (2018), supported by a record-breaking prime market. Meanwhile, the official UK house Price Index for Scotland has seen positive annual growth for the last 33 consecutive months.

However, what happens next is less clear cut. Our forecasts assume that if Article 50 is extended, it is for a relatively short period and that, ultimately, we avoid a no-deal Brexit. That would give households greater confidence over their future finances, which in turn should underpin buyer sentiment to support an improvement in house price growth in 2020. We cannot rule out a delay in this should negotiations to leave the EU become more drawn out. Meanwhile in the event of a no-deal Brexit, the impact on the housing market will be dependent on the Government's response to support the economy.

Despite the uncertainty, Scotland still has room for growth, particularly in popular, well-connected neighbourhoods. In many of these markets, supply falls well short of demand, so competition will drive up values.

Residential values annual change forecasts
Scotland has room for further growth, as market sentiment remains positive

	2019	2020	2021	2022	2023	5-year compound growth
Mainstream UK	1.5%	4.0%	3.0%	2.5%	3.0%	14.8%
Prime GB Regional	0.5%	1.0%	3.0%	2.5%	4.0%	11.9%
Mainstream Scotland	2.5%	5.0%	3.5%	2.5%	3.5%	18.2%
Prime Scotland	2.0%	2.0%	3.0%	3.0%	3.5%	14.2%

Source: Savills Research

Source: Choudhry F, Savills Research and articles (2019), 'Publication: *Spotlight: Scotland Residential'* [online], 28 March. Available at: www.savills.co.uk/research_articles/229130/279389-0 [accessed 25 April 2019]

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

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

Publication | UK Higher Education Spotlight

- Five global real estate themes that have relevance to university estates strategies.
For our first Higher Education Spotlight we look across our global real estate advisory business for themes and changes that are taking place that might be of interest to or even worth adopting in University's real estate strategies.

What was most notable from this global sweep is how many of the trends that are taking place in the office, retail, residential and hospitality sectors are very relevant to those who manage university estates. It was also particularly interesting to see how some of the themes that the more mainstream real estate sectors are struggling with are those that Britain's universities developed and mastered some time ago.

The over-riding themes of this exercise have found that there is a global appetite for secure-income investments, as well as a desire to invest in existing assets in a more sustainable and impactful fashion. Both of these themes, we believe, mean that methods of investing/ financing and potential partnering, are going to rise to the forefront of future strategic decision for University's estates over the next decade.

We will be returning to some of these themes in more details in future Higher Education Spotlights, but we hope you find these five key global real-estate themes, i.e.
1) Mixing uses and blurring spaces,
2) The sharing economy, co-working and workspace as a service,

3) Own versus lease – the corporate real estate conundrum,
4) Doing good – social returns and impact investing, and
5) Seniors housing – investing in demographic change,
thought provoking.
Further information and access to the research in full is available @

Oaklet M (2019), 'Publication: *UK Higher Education Spotlight'* [online], 5 April. Available at: www.savills.co.uk/research_articles/229130/280021-0 [accessed 25 April 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 April 2019]
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Publication | Spotlight: The Forestry Market

- The popularity of UK forests has caused capital values to rise at impressive rates, but is this sustainable?
Future of Forestry
Demand for UK forests continues at unprecedented levels, but the market remains constrained by lack of supply and we believe this is unlikely to change of the medium term. The reasons for the current popularity of forestry assets are well documented; strong and rising demand for wood, long rotation lengths, diversification into tangible assets and increasing recognition of the environmental benefits of woodlands, with potentially new opportunities for monetization. As a result of this popularity capital values have risen at impressive rates. However, for some time now a few voices in the industry have been expressing concern over the sustainability of these price rises and indeed, whether an asset bubble is forming.

As asset bubble can be described as a run-up in prices fuelled by demand, speculation and exuberance. So, is this the case with the current market? We believe this is unlikely. While the market is definitely being stimulated by a clear supply-demand imbalance and there is a degree of speculative pricing going on, the nature of forest growth underpins the asset in two ways.

First, biological growth is immune from property market cycles, so it provides investment stability. Second, the productive potential of timber properties will improve as timber prices rise, effectively underwriting rising capital values, and we do not think the top of the cycle has been reached yet. In other words, good timber properties can support these values providing timber sells at current (or higher) levels. It's also worth noting that forests investors have low levels of gearing are generally long term in nature, meaning they are able to rise out short term market fluctuations.

We would, however, caution the sentiment that high forest returns are normal. Investment performance has been spectacular, but relies heavily on capital movement not income yield. This means a sale is required to crystallise the performance, which many investors are not wanting to do. While we consider that forest values have scope to rise further, owners must realise that if they want to remain invested, then income yields should become the accepted measure of performance, and these will normally be much lower than on a total return basis, which prices in the asset capital.

Total market – area and value
In line with recent trends, 2018 posted another strong year of value growth for the UK forestry market, with supply down by 19%, but overall market value up by nearly 6%, meaning a 30% increase in average value per gross hectare. Despite this headline figure, it is important to understand that forestry values are influenced by a number of local factors and, therefore, the location, quality and scale of the properties in the sample can skew the result compared to the true average. It does not necessarily follow that there has been such a strong increase across the board.

During the 2018 forest year the total value of the UK forestry investment market increased to £118 million, up from £112 million in 2017, to a figure 14% above the medium-term average of £99 million per annum. For the second year in a row the increased market value was against a backdrop of falling supply, with a gross area of 14,750 hectares traded, some 18% below the medium-term average. Contraction in supply coupled with increased market value led to a strong increase in the average price per hectare to £8,066 per gross hectare. Our analysis shows that within the area traded, 10,678 hectares was productive forest, giving an average price per net productive hectare of £11,142, up from £9,300 per net productive hectare in 2017.

Total market value Another strong year of growth
Source: Savills Rural Research
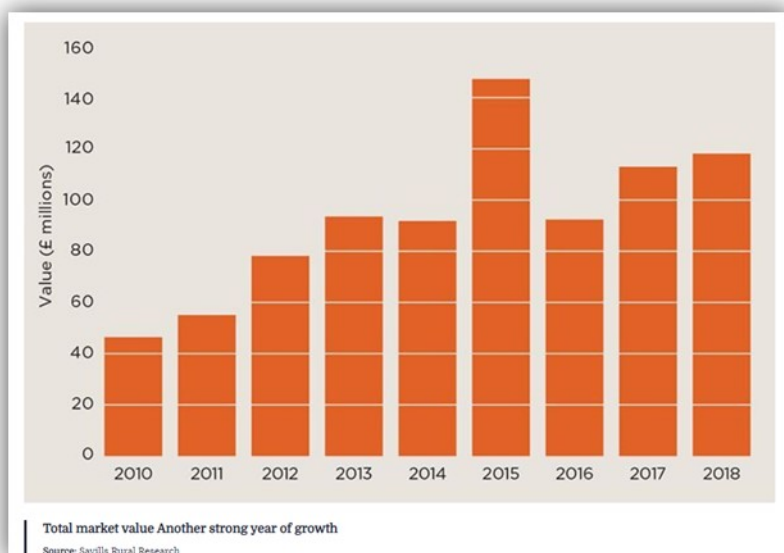
In 2018, analysis shows the average unproductive area was 28% per property, lower than in 2017 but in line with the medium-term average. Unproductive areas include unplanted land (roads, rides, tracks, wayleaves, watercourses, etc.) and non-timber species such as broadleaf trees planted for biodiversity.
Further information and access to the research in full is available @

Bailey I, and Adamson J (2019), Research and articles, Publication: '*Spotlight: The Forestry Market'* [online], 2 April. Available at: www.savills.co.uk/research_articles/229130/279825-0 [accessed 25 April 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 April 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 April 2019]

- Brexit Briefing #2: The Impact on the Central London Office Market – Market stabilising in a post-referendum environment

- Brexit Briefing: Food and Farming – Navigating through the complexity of the post-Brexit landscape: The impact of the farming sector of leaving the EU is likely to be high

- Challenges and opportunities in the next decade – What part will Brexit, housing policy and industry innovation play in meeting the nation's housing challenges?

Trending articles incl.

- The Impact on the central London office market – Uncertainty will be a drag on activity, but London still looks comparatively attractive

- The Impact on Global Real Estate – Reassessing risk and opportunity following Britain's decision to leave the EU

- The Impact on the UK Logistics Market – Robust occupier take-up and low vacancy rate will keep sector attractive for investors

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

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 April 2019]

Related Links/Source of further information –

Latest 'Research briefings' from the House of Commons Library

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

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

Under Housing and planning, 2019 -

Housing Market: Key Economic Indicators [18 April 2019] [online]. Further information is available at:
https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820 [accessed 25 April 2019]

House prices (UK): Social Indicators page [17 April 2019] [online]. Further information is available at:
https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02645 [accessed 23 April 2019]

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

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

Rough Sleepers and Anti-Social Behaviour (England) [2 April 2019] [online]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7836 [accessed 25 April 2019]

Leasehold and commonhold reform [12 April 2019]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8047 [accessed 25 April 2019]

Planning Appeals [22 March 2019] [online]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06790 [accessed 25 April 2019]

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

2018

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

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

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

Under Education, 2019 –

Careers guidance in schools, colleges and universities (England) [23 April 2019]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7236 [accessed 25 April 2019]

T Levels: Reforms to Technical Education [23 April 2019]. Further information is available at: https://researchbriefings.parliament.uk/?ContentType=Commons+Briefing+papers&Topic=Education&SubTopic=&Year=&SortByAscending=false [accessed 25 April 2019]

Cost of university courses in England [18 April 2019]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8386 [accessed 25 April 2019]

The review of university admissions [10 April 2019]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8538 [accessed 25 April 2019]

Returns to a degree [5 April 2019]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8389 [accessed 25 April 2019]

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

Higher education funding in England [12 March 2019] [online]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7973 [accessed 25 April 2019]

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

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

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

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

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

Under Energy and environment, 2019 –

Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies [17 April 2019] [online]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912 [accessed 25 April 2019].

Brexit: Proposals for the future UK-EU relationship [29 March 2019] [online]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8483 [accessed 11 April 2019]

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

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

Plastic Waste [3 April 2019] [online]. Further information is available at: https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8515 [accessed 11 April 2019]

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

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

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

Related Link:

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

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

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

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

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

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

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

The Chartered Institute of Building (CIOB) Past-President Paul Nash, Royal Institute of British Architects (RIBA) President Ben Derbyshire, and Royal National Institution of Chartered Surveyors (RICS) President John Hughes have signed the 'Building in Quality: Joint Memorandum of Understanding' (JMU).
As part of this agreement, the partners launched an industry-wide consultation on a proposed system for establishing a chain of custody for quality in construction projects, on the RIBA stand at Ecobuild.
Led by the RIBA's Client Liaison Group, which includes CIOB and RICS representation, the 'Building in Quality' initiative aims to encourage getter collaboration, improved procurement, and to introduce new methods to improve the quality of the built environment for the benefit of the society.

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

RIBA (2018) 'Building in Quality' consultation – tell us your views' [online]. Available at: www.architecture.com/knowledge-and-resources/knowledge-landing-page/building-in-quality-consultation [accessed 25 April 2019]

Further information is also available at

Source: CIOB (2018), '*CIOB, RIBA and RICS collaborate on initiative to improve building quality*' [online], CIOB Policy & Public Affairs Portal. Available at: https://policy.ciob.org/research/social-mobility-construction-building-routes-opportunity/ [accessed 25 April 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 were 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.constructionmanagermagazine.com/news/apprenticeships-starts-rise-first-time-levy-launch/ [accessed 25 April 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 April 2019]

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

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

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

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

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

Further 'Apprenticeship-related' links:

UCEM Apprenticeship programme – Development talent for your business

Further information is available via the UCEM Website [online] and available @ www.ucem.ac.uk/develop-talent-for-your-business/apprenticeships/ [accessed 25 April 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 April 2019]

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Need to know: Apprenticeship levy FAQ

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

- **What is the Apprenticeship Levy?**

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

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

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

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

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

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

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

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

Other question raised incl.

- The main details regarding funding

- How will the proposed funding bands work? Will they work for construction?

- What's the co-investment rate?

- What are the new standards going to look like?

- How will the new levy work with the current CITB levy?

- Where can I go for more information?

Further information can also be accessed via

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

CIOB, CM - Construction Manager **(2017),** Apprenticeship levy: making the most of it, *Construction Manager* [online], 14 May. Available at: www.constructionmanagermagazine.com/management/how-currie-brow7n-m8aking-appr5enticeship-levy/ [accessed 25 April 2019]

Bentley A (2017), CIOB, CM - Construction Manager, Management: The apprenticeship levy and how to spend it, *Construction Manager* [online], 26 June. Available at www.constructionmanagermagazine.com/management/get-hea6d-start-app7renticeship-l8evy/ [accessed 25 April 2019]

CIOB, CM - Construction Manager (2015), **Q&A briefing**: How will the new apprenticeship levy affect the industry? *Construction Manager* [online], 26 November.   Available at www.constructionmanagermagazine.com/news/ne1w-apprenti3ceship-lev2y-qa/ [accessed 25 April 2019]

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

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UCEM Accreditation and recognition

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

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

Further information can be accessed via the UCEM website [online] and available at: www.ucem.ac.uk/about-ucem/accreditation-recognition/ [accessed 25 April 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 10 April 2019) on

- **Construction disputes – What circumstances give rise to disputes?**
- Employment – A concise guide to employment status.
- **Construction processes – Five things construction can learn from the automotive sector.**
- Quality culture and behaviours – Put a quality culture improvement plan in place and don't walk by.
- Civil engineering – Capability Brown is proof that engineering for sustainability works.
- Tax – Reducing tax bills by investing in water-saving technologies.
- **Qualitative design review – Assessing how fire might arise and keeping risk at an acceptable level.**
- **Demographics – How will a changing population transform the built environment**
- **Building Information Modelling – Here is a step-by-step guide to using BIM on projects (see further information below)**
- Energy – It's not a choice – we need both renewables and nuclear

This month also contains **news** (as of 10 April 2019) from the following organisations and online journals incl.

- **GOV.UK, Apr 10 – First Institutes of Technology announced to further STEM skills.**
- Construction Index, Apr 10 – trade bodies launch new pre-qualification system.
- Construction Enquirer Apr 9 – Crane falls on hospital during dismantling.
- **Institution of Civil Engineers, Apr 9 – Ice launches guide to Brexit for BIM practitioners**
- GOV.UK, Apr 9 – Groundworks suppliers face cartel probe by CMA.
- Construction Products Association, Apr 8 – CPA call for evidence on construction product information extended.
- Construction Index, Apr 8 – Excavator in Korea controlled from Germany by 5G technology.
- **BIM+, Apr 7 – Para metrics educe structural design time on Sydney tower**
- GOV.UK, Apr 5 – Pay on time or face public work ban, contractors told.
- GCR, Apr 5 – Unexpected challenges raise London super sewer costs by 8%
- Construction Enquirer, Apr 5 – Firms chosen to spearhead £500m modular crusade.
- **GOV.UK, Mar 5 – Government launches scheme to regenerate village halls**
- **Architecture.com, Apr 4 – RIBA launches gender pay guidance for practices (see further information above).**

'**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 April 2019]

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‘Designing Buildings Wiki’ presents the most popular articles in each of their 32 subject areas/categories

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

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

Category – Project Activities

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

Category – Legislation

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

Category – Industry context

SUBJECT AREA	MOST POPULAR ARTICLE
24. Conservation	Defects in brickwork
25. Education	Construction methods
26. History	The UK construction industry
27. International	Why so many women leave engineering

28. Organisations	Construction industry acronyms
29. Projects and case studies	The Big Bend, New York
30. Publications / reports	Latham Report
31. Research / innovation	3d printing
32. Theory	Risk in building design and construction

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

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

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

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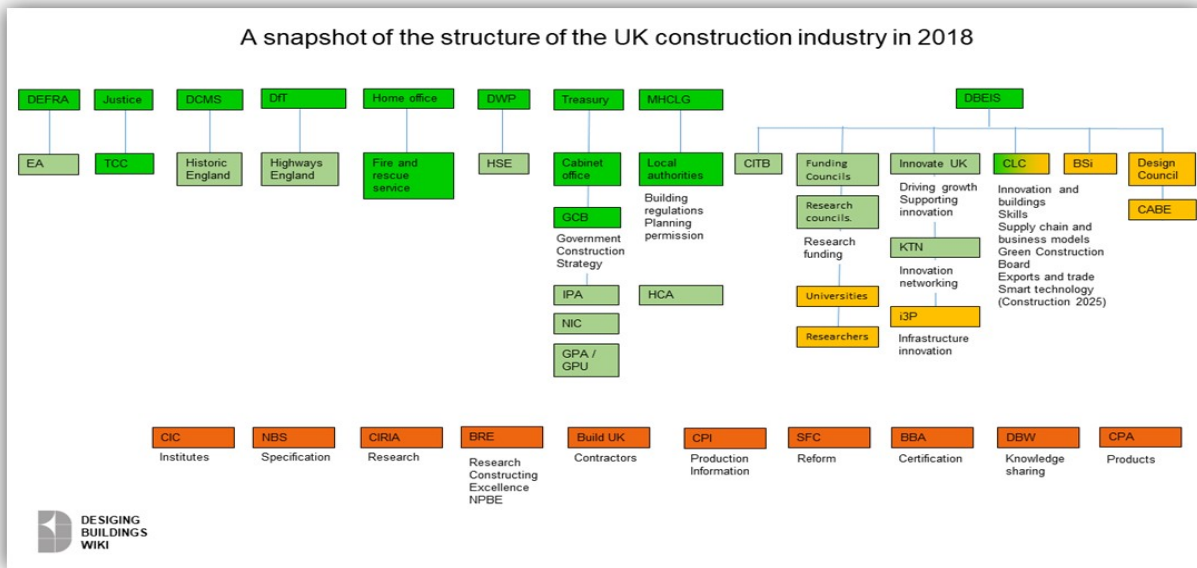
Source: **Designing Buildings.co.uk Wiki** (2018), 'Fragmentation of the UK construction industry' [online], last edited 8 June 2018. Further information is available at: https://www.designingbuildings.co.uk/wiki/Fragmentation_of_the_UK_construction_industry [accessed 25 April 2019]

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 recognise 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 become 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 reference 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 April 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 April 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 April 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 March 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* 04/2019 April Edition

- *CIS Insight* (04/2019 Edition) –

This month's *Insight* focuses on 'The ageing population. Designing for dementia'

- The population's mean age is increasing
- In the UK, over 850,000 people are living the dementia
- Proactive vs reactive solutions are needed

Abstract

The world's population is ageing faster than it ever has before. According to the World Health Organisation (WHO), between 2015 and 2050 the number of people that are 60 years or older will go from 900 million to 2 billion. At the same time, our older population isn't significantly healthier than their parents were. This unprecedented rate of increase from 12% to 22% - in such a short space of time has wide-ranging implications for our society – from how to integrate older workers in to our business to how to allow them continued independence for as long as possible. In this article, we briefly cover some statistics, look at ageing from a design and housing standpoint, and briefly cover a few ideas about designing for dementia.

Subjects covered, and questions broached incl.

Truths of ageing in today's world

- Older people today are no healthier than their parents were.
- Environment is a huge influencer.
- Chronic disease and cognitive health remain the two most common health conditions for the aged.

How best to address these truths?

- Abandon OAP stereotypes.
- Look at healthy ageing the same way we do healthy living.
- Integrate long-term care into the healthcare system.
- Go from reactive to proactive.

Understanding the situation from a design point of view

- Our current approach Incl. Aspirational downsizing and Needs-based retirement and extra care.

Meeting the need

Dementia – some statistics

What we can do

- Familiar surroundings
- Natural lighting
- Colour and contrast 'coding'
- Fixtures and fittings
- Outdoor access
- Assisting technologies

Future success requires collaboration across all sectors

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

Source: NBS (2019), The Construction Information Service (CIS) – *Insight 04/2019: The ageing population: Designing for dementia* [online]. Further information available at: www.thenbs.com/knowledge/the-ageing-population-designing-for-dementia?scl=01MzUzQzIwMDUtNzEyNi00RDZBLTg2NEItNTQzNTAxOTg4Nzk0XzYzNjkxNjIzNzQ2MjcwOTUxMg%3d%3d [accessed 25 April 2019]

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

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The Smith Institute

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

- **Economy and Finance** - This policy theme includes work on macro-economics, trade, tax and finance. The Smith Institute's work in this area has looked at the relationship between fairness and a strong economy.
- **Government and Politics** - The Institute is interested in constitutional reform, active citizenship and political participation. Future work will be exploring voting trends, the interplay between politics and policymaking and improving political engagement.
- **Sustainability and Environment** – The Institute's work in this field has looked at food supply, homeworking, eco-housing, and energy policy.
- **Business and Third Sector** - This policy theme includes work on the business, corporate responsibility, access to finance, charitable giving and social enterprises. This year our work in this area will be focusing on corporate governance, business and rebalancing the economy, and the third sector and public services.
- **Local Government Cities and Regions** - This policy theme includes work on the devolution and regional economic disparities and development. The economic downturn is exacerbating the gap between London

(and the Greater Southeast) and other areas of the UK. Set against this backdrop the Institute is continuing work on city-regions, economic geography and localism.

- **Housing and Regeneration** - This policy theme includes work on social housing, private rented sector, eco-towns, regeneration, suburbia, and urban renewal. The Institute's work this year will be mainly focused on funding social housing, eco-homes, and place-making.

- **Work and Welfare** - This policy theme includes work on wages, good work employment, welfare, worklessness, pay, outsourcing and skills. The Institute recently undertook a major inquiry into making undertaken by Ed Sweeney (former chair of ACAS) into Making Work Better. This report was widely welcomed including support from the Labour party, unions and the EEF.
  The Institute's future work programme is going to focus on procurement, living wage, employment protection and will focus on some of the main themes from the *Making Work Better* report.

- **Education and Families** – The Institute's work in this policy area has looked at all levels of formal education and on early intervention policies. The Institute believe that it is far better and fairer for individuals and society, and makes clear economic sense, to intervene early before problems develop in later life.

- **Health and Wellbeing** - This policy theme covers work on healthcare, healthy living and mental health. The Institute are interested in health and social care, the delivery of efficiencies and fairness in the NHS, and health prevention. Future work will be focusing on the impact of the health and social care act, the ageing society, integration and public health.

- **Security and Criminal Justice** - This policy theme includes work on the criminal justice system, reducing re-offending and issues around combatting terrorism and national security. The Institute aim to undertake further research on offender management and security policy.

- **EU and International** - This policy area include work on the European Union, trade, and Britain's relationship with the international community and role in the world. The Institute have published a collection of essays on social Europe which, it is hoped will be followed up this year. The Institute also aim to undertake further work on economic nationalism and globalisation.

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

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

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

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

Policy Tracker

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

The unspoken decline of outer London – Why is poverty and inquality 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 April 2019]

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

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

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

The National Trust is 'a charity that works to preserve and protect historic places and spaces – for ever, for everyone' (NT, 2015). The National trust protect historic houses, gardens, mills, coastlines, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages and pubs. While they are

very passionate about open spaces and historic places, they also work hard in other areas too, including the environment, food, farming, transport and heritage – to name but a few.

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

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

Please refer to

    '**The National Trust**' ⏎

    '**Our cause**' ⏎ and select either

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

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

NT, Big issues - Transport and tourism –

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

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

Social Media Links to follow for National Trust:

&

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

Please refer to

    '**The National Trust**' ⏎

    '**Our cause**' ⏎

    '**Land & Landscape**' ⏎

    '**Landscape**' ⏎ and select

    '**Land-use & Planning**' ⏎

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

Reference:

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

https://twitter.com/nationaltrust/ [accessed 25 April 2019],

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

www.youtube.com/user/nationaltrustcharity/ [accessed 25 April 2019]

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Why the National Trust cares about planning

Land-use planning is a key tool to help the National Trust look after the nation's special places. It can also help society to create great places for people to live, work and play, and deliver a healthier, more beautiful natural environment – two key parts of the new National Trust strategy. That's why they regularly take part in the planning system and support a plan-led system to deliver good development which meets long term needs.

An effective planning system guides good, necessary development to the right places, making an important contribution to prosperity and growth. It ensures that poorly designed developments and those in the wrong place don't get built. It delivers the new homes, shops and services that communities want, where they want them. And it protects the things that matter to us all; from much-loved open spaces, green fields and productive agricultural land to our historic city centres, towns and villages.

A planning system should:

- Be balanced - to integrate environmental, social and economic concerns
- Safeguard the public's interest - protect countryside, heritage and nature
- Start from what people value about their place

National Trust (2018), *Why the National Trust cares about planning* [online] and further information is available at @ www.nationaltrust.org.uk/features/land-use-and-planning [accessed 25 April 2019]

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National Trust – "Our planning principles"

"Our planning principles are used to guide us in our decision-making on the way land is developed and managed." (National Trust, 2016)

These principles are used to guide the National Trust in their decision making about land use and planning incl.

Seeking to influence – The National Trust seek to influence the Planning system at local, regional and national levels in accordance with their statutory purpose and will promote an integrated approach to sustainable development.

Supporting spatial planning – The National Trust support spatial planning which takes a holistic approach to the environment and its resources, plans long-term, looks at the landscape, catchment or coastal 'cell' scale and considers climate change implications.

Sensible management – The National Trust promote the wise management of the natural environment and built and cultural heritage, for our future generations, and will support high design quality.

Protecting our environment – The National Trust will seek to protect wild and remote landscapes from built development or urbanisation, especially where it impacts on their properties.

Using property management plans – In managing its land through property management plans, the National Trust will support and help to achieve the objectives of any designated landscape, wildlife, or historic sites and arenas.

Objecting to proposals, where appropriate – The National Trust will object to land use or marine-based proposals that have a significant adverse impact on its properties and their settings and context, or in its wider interests.

Using a sustainable construction approach – When proposing development on their land to meet justified needs, the National Trust will use a sustainable construction approach. This will include:

- Minimising resource use and generation of waste,
- Being energy efficient,
- Minimising or preventing all types of pollution and risk of flooding,

- Safeguarding important wildlife, landscape and historic interests,
- Respecting local/regional distinctiveness, supporting local sources for goods and services where practical, and
- Encouraging community involvement and access

National Trust (2018), *Our planning principles* [online] and further information is available @ www.nationaltrust.org.uk/features/our-planning-principles [accessed 25 April 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 (2018), *How we engage in planning: our role as a developer* [online] and further information is available @ www.nationaltrust.org.uk/features/how-we-engage-in-planning-our-role-as-a-developer [accessed 25 April 2019]

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Planning at a national level

- Across England, Wales and Northern Ireland, the National Trust look after a quarter of a million hectares of land, 775 miles of coastline, and thousands of archaeological monuments and historic buildings, large and small. Every year many millions of people enjoy the special places in the National Trust's care.

The National Trust's role - As an organisation rooted in the importance of place, the Trust has always looked beyond its own boundaries to achieve its core purpose. Founded to preserve and provide access to places of natural beauty or historic significance, the National Trust supporters were a voice against urban sprawl and ribbon development in the 1920s, and advocates of the Town and Country Planning Act, which became law in 1947.

Government's planning rules for housing development and land use – The Government's National Planning Policy Framework (NPPF) is the main set of rules that apply to planning decisions and local plan-making in England. The NPPF, introduced in March 2012, should ensure that development is steered to the most appropriate places. Planning development should not be weighted in the interests of purely economic development, but integrate the needs of people, places and the economy.

When the NPPF was being drawn up, the Prime Minister wrote to the National Trust to reassure them that 'our magnificent countryside' would continue to be protected. The Prime Minister at the time said the reforms would 'maintain protections for the green belt, for National Parks and Areas of Outstanding National Beauty,' and would 'strengthen local participation'.

Monitoring Government's plan-led system – Since the NPPF came into force in March 2012 the National Trust has been checking that the Government's intentions are being delivered at ground level.

For further information, visit

National Trust (2018), *Planning at a national level* [online] and further information is available @ www.nationaltrust.org.uk/features/planning-at-a-national-level [accessed 25 April 2019]

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Planning at a local level

- At a local level, the National Trust monitor planning proposals that are likely to affect the special place in their care.

The National Trust deal with proposals ranging from anything from a house extension, through to large residential or commercial development, to new road or airport infrastructure. These will often be proposals adjacent to National Trust land, but development some distance away can also have implications on special places, for example in the form of traffic generation, or loss of habitat.

The vast majority of applications will not be an issue for the National Trust. For others, they may object, or suggest some conditions, to those which compromise National Trust purposes and sustainable development principles, or – very rarely – if they feel an unfortunate precedent might be set.

Through informed involvement, the National Trust have been able to negotiate real environmental improvements in schemes like complex infrastructure proposals, for instance on road or rail alignments.

Where it is helpful to National Trust interests, they seek to influence local transport plans, shoreline management plans, and river basin management plans.

For further information, visit

National Trust (2018), *Planning at a local level* [online] and further information is available @ www.nationaltrust.org.uk/features/planning-at-a-local-level [accessed 25 April 2019]

Related links:

GOV.UK (2018), Ministry of Housing, Communities and Local Government, published: 29 November 2016, last updated: 24 July 2018, Collection: *Planning practice guidance* [online]. Available at: www.gov.uk/government/collections/planning-practice-guidance [accessed 25 April 2019]

GOV.UK (2018), Ministry of Housing, Communities and Local Government, published: 27 March 2012, last updated: 24 July 2018, Policy Paper: *National Planning Policy Framework* [online]. Available at: www.gov.uk/government/publications/national-planning-policy-framework--2 [accessed 25 April 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 April 2019] and www.revocommunity.org/insights [accessed 25 April 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 April 2019]

https://twitter.com/FosterPartners [accessed 25 April 2019],

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

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

Note: Further information can also be accessed through the above provided web link on: **BIM (Building Information Modelling)** and access to **'what is BIM' video.**

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The future of construction – BIM

Building Information Modelling (BIM) can be a valuable tool in the hands of anyone who works in construction. There's no doubt that, the concept of collaborative working is becoming more and more popular through the years. That's why, it's critical for all construction agents to be aware of the different BIM maturity levels:

Source: **Designing Buildings.co.uk Wiki,** (2017) 'The future of construction - BIM' [online], last edited 19 June 2017. Available at: www.designingbuildings.co.uk/wiki/The_future_of_construction_-_BIM [accessed 25 April 2019]

What BIM actually is

To put it simply, BIM refers to a collaborative method of working which is based on the generation and exchange of data and information between the various project parties. Based on this information the full cycle of a building, from conception to completion, can be managed, In that sense, it's an indispensable part of the

decision-making process. BIM started gaining attention in the 90's and it has evolved remarkably during the last decades.

There are different levels of shared collaboration in a construction project. Those are known as BIM maturity levels. As we proceed through the levels, the collaboration between the various sides is increasing. At the time being, there are four distinct BIM maturity levels (as shown in the figure above).

Access and further information are provided via the following:

Source: **Designing Buildings.co.uk Wiki,** (2017) 'The future of construction - BIM' [online], last edited 19 June 2017. Further information is available at: www.designingbuildings.co.uk/wiki/Home and www.designingbuildings.co.uk/wiki/The_future_of_construction_-_BIM [accessed 25 April 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 April 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 April 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 April 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 April 2019]

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

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Latest News on BIM -

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 11 April 2019]

Related Links:

1) 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 11 April 2019]

2) 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 April 2019]

3) CM staff (2019) '**New international BIM standard launched'**, *Construction Manager* [online], 22 January. Available at: www.constructionmanagermagazine.com/news/new-international-bim-standard-launched/ [accessed 25 April 2019]

4) CDBB (2018) 'Centre for Digital Built Britain (CDBB) Year one Report: Towards a digital built Britain' [online]. Available at: www.cdbb.cam.ac.uk/news/2018CDBBYear1Report [accessed 25 April 2019]

5) 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 April 2019]

6) 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 April 2019]

7) 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 April 2019]

8) 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 April 2019]

9) CIOB (2018) 'Bentley launches guide to BIM' [online]. Available at: www.bimplus.co.uk/news/bentley-launches-guide-bim/ [accessed 25 April 2019]

10) Coleman A (2017), Chartered Institute of Building (CIOB) – 'Me and my project: BIM and demolition', *Construction Manager* [online], 5 October. Available at: www.constructionmanagermagazine.com/onsite/me-and-my-project-demolition-design/ [accessed 25 April 2019].

11) Papadonikolaki E and Azzouz A (2017), Chartered Institute of Building (CIOB) – 'How your 'BIM champions' can be the key to success', *Construction Manager* [online], 5 September. Available at: www.constructionmanagermagazine.com/opinion/how-your-bim-champions-can-be-key-success/ [accessed 25 April 2019].

12) Butcher S (2017), Building Research Establishment (BRE) – **'Bringing BIM back to reality'**, *Building4Change* [online], 15 June. Available at: www.building4change.com/article.jsp?id=2829#.WVEI6-vytEY [accessed 25 April 2019] **ARTICLE #2829** (BRE). Back to top

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Within 'Built Environment' section, subject categories incl.

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- Building and Construction
- Energy
- Health and Safety
- Landscape
- Planning (incl. Rural Planning)
- Property
- E-books: Built Environment

Other collections incl.

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- Property Inspection and Maintenance
- Real Estate Management
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- 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 April 2019]
For further information, please visit **Taylor & Francis online, FREE-to-view compilations** [accessed 25 April 2019].
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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 April 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 April 2019]
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RICS Library services and e-Resources
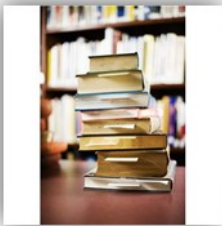
Source: UCEM (2016)

RICS (Royal Institution of Chartered Surveyors) is an international professional body and represents everything professional an 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 April 2019].

RICS Library services and e-Resources – Similar to the UCEM e-Library, RICS uses DawsonEra as their eBook platform as well as subscribing to EBSCO and Emerald e-Journals.   However, whilst RICS only subscribes to 6 specialised Engineering, Construction and Architectural Management titles, **Note:**

UCEM Library services and e-Resources incl. Emerald Insight – Access provided to the 'Property Management and the Built Environment' collection

UCEM students and staff have access to over 120 Full-Text Journals within 'Emerald Management e-Journals', in addition to the entire (including Backfiles) 'Property Management and the Built Environment' collection including the following titles:

- Built Environment Project and Asset Management
- Construction Innovation: Information, Process, Management
- Engineering, Construction and Architectural Management

- Facilities
- International Journal of Housing Markets and Analysis
- Journal of Corporate Real Estate
- Journal of Engineering, Design and Technology
- Journal of Facilities Management
- Journal of Place Management and Development
- Journal of Property Finance
- Journal of Property Investment and Finance
- Journal of Property Valuation and Investment
- Property Management
- Smart and Sustainable Built Environment
- Structural Survey
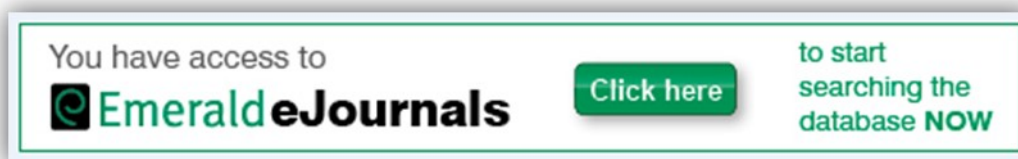
NOTE: For the above link to work you must ensure that you are logged-in to **Athens via the VLE e-Library**

Please also refer to the **UCEM e-Library portrait** and **Journal Review** mentioned below that shows a wealth of additional and valuable resources that the UCEM Library offers.

Please also note the **RICS Library Online catalogue** which is an excellent resource. Available at: http://unicorn.rics.org/uhtbin/cgisirsi.exe/0/0/0/60/69/X [accessed 25 April 2019]

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& finally ….

What is The Shed?

- The Shed at Hudson Yards will be a new centre for artistic invention in New York City.
The Shed commissions original works of art, across all disciplines, for all audiences. They bring together established and emerging artists in fields ranging from hip hop to classical music, pointing to digital media, theatre to literature, and sculpture to dance.
The Shed's home, The Bloomberg Building – designed by Diller Scofido + Renfo, Lead Architect, and Rockwell Group, Collaborating Architect – is an unprecedented movable structure that adapts to support ambition and invention in all creative fields.
By minimizing social and economic barriers to entry they'll make a warm, welcoming space for innovation and unique artistic experiences. By offering access and insight into the creative process, they'll forge deep bonds between their artists and their audiences. Driven by their belief that access to art is a right, and not a privilege, they'll present existing, engaging experiences for our communities and our time.
For further information please visit:
The Shed [online]. Available at: https://theshed.org/ [accessed 25 April 2019]
Related Link:
The Shed, A New Centre For The Arts / The New West Side
- Hudson Yards has become the cultural centre of Manhattan's New West Side. A template for the future of cities, this new neighbourhood has not only changed the way New York looks to the world, but the way the world sees New York.
For further information please visit:

Hudson Years, New York [online]. Available at: www.hudsonyardsnewyork.com/discover/shed [accessed 25 April 2019]

Property and Construction Statistics

RICS Economy and Property Market Chart Book – Q1 2019

- Brexit cloud hangs over the real estate market

The UK economy ended last year (2018) on a relatively soft note and early indications suggest that the first quarter of 2019 was a little better. Predictably enough, it is the uncertainty about the country's future relationship with the EU that is, in no small measure, contributing towards the subdued picture. This is particularly evident in the business world with corporate savings jumping sharply as investment plans are put on hold. Whether matters can be resolved before the March 29th deadline remains to be seen; at this stage, leaving without a deal alongside a possible extension of Article 50 are both also possible. Our judgement is that the former of these two potential outcomes is likely, at least in the near term, to inflict further damage on the economy, although the policy response and the ability to successfully (and rapidly) put in place alternative trade arrangements will be critical to determining how this plays out over time.

Perhaps partly because companies have been reluctant to commit to capex in the current environment, they have been reliant on employing more labour and this has been clearly visible in the employment statistics. In the three months to November (the latest available data), job creation jumped by 141,000, the biggest gain in seven months. As a result, the employment rate climbed to 75.8%, a record high and the rate of unemployment slipped to just 4%, the lowest since 1975. Against this backdrop, a stronger trend in pay growth is emerging. Wages are now increasing (on an annual basis) at their fastest pace in ten years and, with so little slack left in the labour market, the likelihood is that this firmer trend will be sustained in the absence of a material Brexit shock.

Unsurprisingly, RICS data suggests that heightened level of uncertainty is continuing to impede activity in real estate markets. In the Residential Market Survey, for example (further information is provided later in this issue) comments from respondents overwhelmingly point to the failure to agree a way forward on Brexit having a detrimental effect on market confidence. It is, needless to say, not the only issue highlighted; others include affordability challenges across much of the country, changes in the regulatory and fiscal environment and an ongoing lack of good quality stock.

Turning to the construction industry, the headline RICS workloads indicator is still consistent with an increase in output, albeit the pace of growth has moderated in the latest results. Activity appears to be flatlining across the commercial and industrial segments. In contrast, a new balance of +20% of respondents has reported an increase in private housing activity. This chimes with the improvement in the latest housing supply numbers as net additional dwellings in 2018 came in at 222,190 the highest outturn in a decade.

Source: RICS (2019), Knowledge, RICS Market Surveys – *RICS UK Chart Book and Survey Market Updates, Q1 2019*, RICS, London [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-chart-book/ [accessed 25 April 2019].
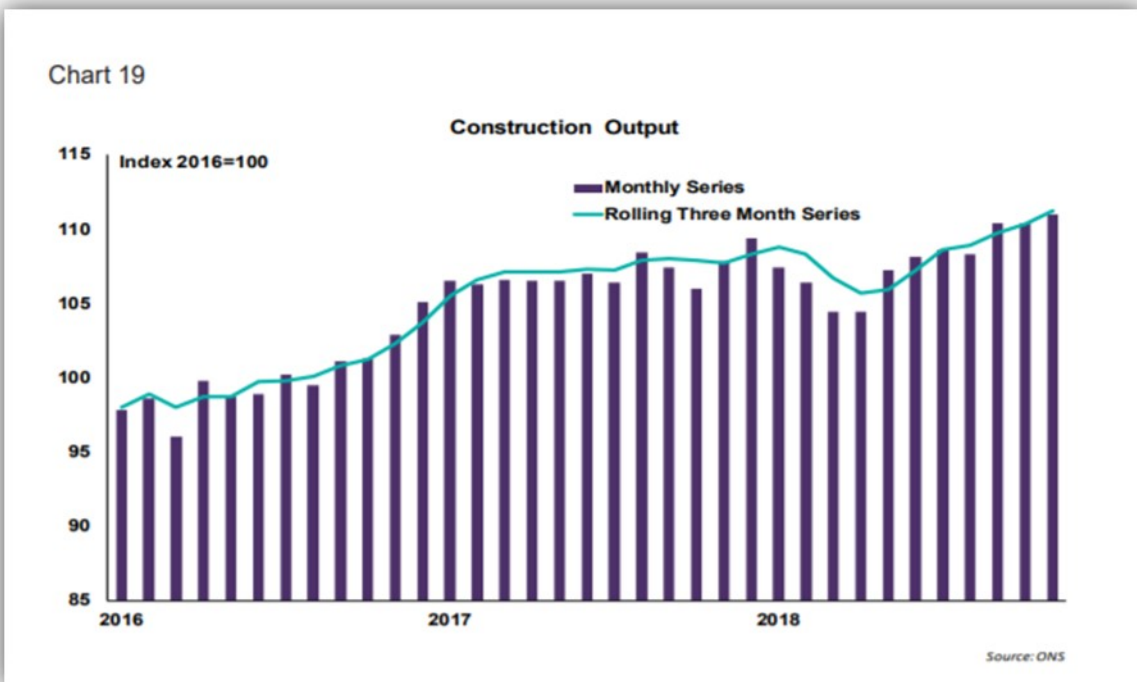
Chart 5 – UK Economy

- The trade in services has provide to be particularly important for the UK with service industry making up 80% of the economy. The EU remains the UK's largest export partner for services, which leaves the economy in a particularly vulnerable position as far as any future trade deals between the UK and EU are concerned.
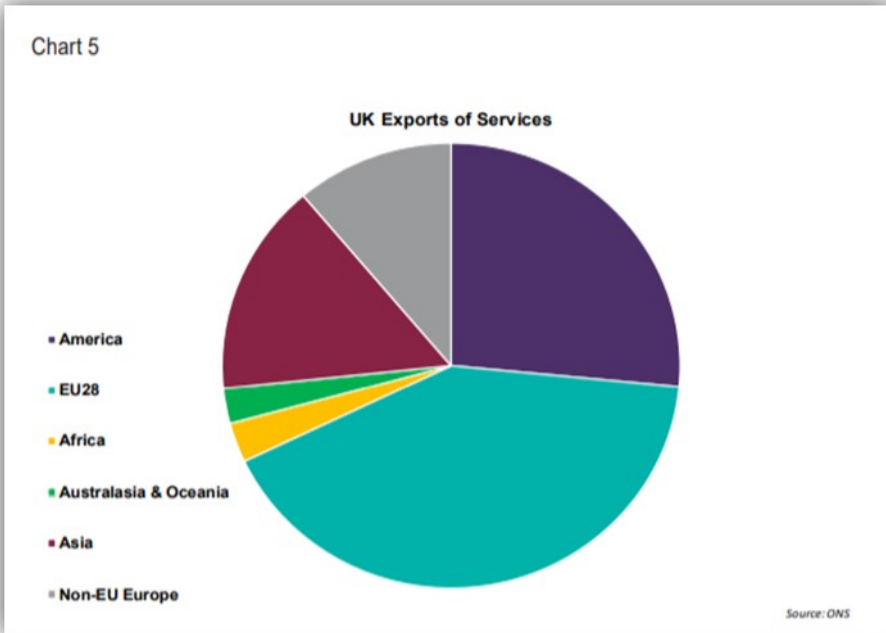
Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q1, 2019), page 6

Chart 19 – Construction sector

Momentum across the construction industry has picked-up after activity slowed during the first part of last year (2018) due to temporary (largely weather related) factors. It is also worth noting that from the back end of 2016, the underlying trend in the construction industry has been one of growth.

Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q1, 2019), page 11

Please note: **RICS > News & Insight > Research > Market Surveys -** RICS Economics' market surveys and reports are freely available from the RICS web site – www.rics.org/uk/news-insight/research/market-surveys/ [accessed 25 April 2019]

These include:

- **UK Residential Market Survey.** <u>Note</u>**: The latest survey, dated March 2019 (see below)**
- Global Commercial Property Monitors – leading indicators of conditions in commercial property occupier and investor markets around the world.
- **Analysis and discussion papers –** In-depth insights on specific markets, sectors and developments.
- Cyprus Property Price Indices – A quarterly price and rental index that tracks property and rental prices across all districts
- Hong Kong Residential Market Survey – a leading sentiment indictor 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**. <u>Note</u>: For the latest (Q1 2019), please see above.**
- **UK Commercial Market Survey – a leading indicator of developments in the UK commercial property occupier and investor markets.**
- UK Construction and Infrastructure Survey – the leading sentiment indicator of the UK construction and infrastructure markets.

RICS (2019), Research, Market Surveys [online]*,* London: RICS. Available at: www.rics.org/uk/news-insight/research/market-surveys/ [accessed 25 April 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 March 2019 RICS UK Residential Survey results show little departure from the subdued picture evident across the sales market for several months now. Forward looking indicators suggest this lack of momentum is likely to continue for a while longer, although perceptions on the twelve-month outlook are a little more sanguine.

March 2019: UK Residential Market Survey

Brexit impasse continues to challenge the market

- Demand indicator remains negative albeit slightly less so than previously
- Agreed sales and new instructions continue to decline amidst uncertain political backdrop
- Respondents still envisage a modest improvement in activity twelve months ahead

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

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

https://twitter.com/RICSNews [accessed 25 April 2019]

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

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

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Office for National Statistics (ONS) - Construction Industry update

- Construction of new buildings and repairs or alterations to existing properties in Great Britain measured by the amount charged for the work, including work by civil engineering companies.

Office for National Statistics (2017), Business, industry and trade, Construction industry [online] and available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 25 April 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 April 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: February 2019

Contents incl.
(i) Main points; (ii) Things you need to know about this release; (iii) Construction output in February 2019; (iv) Detailed growth rates; (v) Revisions; (vi) Links to related statistics; (vii) Other useful links; (viii) Quality and methodology; and (ix) Construction statistics engagement and development.
What's in the bulletin?
- Construction output decreased by 0.6% in the three-month all work series in February 2019; the all repair and maintenance and all new work series saw decreases of 1.0% an 0.4% respectively.
- The decrease in the all new work series was driven by a fall in private commercial new work which decreased by 3.7% by 3.7% whereas the decrease in all repair and maintenance was driven by a fall in non-housing repair and maintenance which decreased by 2.6%.
- Construction output increased by 0.4% in the month-on-month all work series in February 2019.

Office for National Statistics (2019), Construction Industry, *Construction output in Great Britain: February 2019* [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 25 April 2019], www.ons.gov.uk/businessindustryandtrade/constructionindustry/datasets/outputintheconstructionindustry [accessed 25 April 2019], and
www.ons.gov.uk/businessindustryandtrade/constructionindustry/bulletins/constructionoutputingreatbritain/february2019 [accessed 25 April 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 April 2014 to December 2018, and

- **Construction Statistics Annual Tables** – These tables cover a wide range of statistics that are currently available on the construction industry.

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:
https://www.ons.gov.uk/economy/economicoutputandproductivity/output/articles/shorttermindicatorseconomiccommentary/june2018 [accessed 25 April 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 April 2019]. **N.B.** This item has been placed with **The National Archives** as the ONS website has now been updated.

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/number192018 edition [accessed 25 April 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/number182017 edition [accessed 25 April 2019]

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

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

https://twitter.com/ONS [accessed 25 April 2019],

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

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

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

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

GOV.UK, Department for Business, Innovation and Skills (BIS), 30th January 2013, Collection: *Construction statistics* [online] and further information incl.

- Monthly Statistics of Building Materials and Components;
- BIS Construction Price and Cost Indices Online;
- Construction Key Performance Indicators;
- Output and New Orders in the Construction Industry; and
- Consultative Committee on Construction Industry Statistics (CCIS)) are available at

GOV.UK, Department for Business, Innovation and Skills (BIS), *Construction Statistics* [online] with further information and web links provided @ www.gov.uk/government/collections/construction-statistics [accessed 25 April 2019]

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[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 April 2019]

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e-Journal Review

RICS *Modus* Digital Magazine – April 2019: The Good Issue

- Money laundering, modern slavery, homelessness; all big, societal issues that are bound by a common thread: their connection to the built environment? This month's edition of Modus shines a light into some of the industry's darker corners and finds out how our professionals are playing a crucial role in trying to make things better.

- As cash races into real estate, so too does dirty money from criminal activity worldwide. How can the property industry up its game in the battle against money laundering? And will coordinated international action to root out the perpetrators have the intended impact, or create unintended consequences?

- Despite every respectable construction company committing to ending modern slavery, the industry's addiction to lowest-cost tendering makes progress hard. How does the sector move forward to really make progress?

- We assess how professionals can play a role in addressing the growing problem of homelessness, through innovative built environment-led initiatives that treat homeless people with dignity, restoring their sense of self-worth and place in the community.

- And we meet Laura Collins MRICS, the current RICS Matrics Young Surveyor of the Year, to find out about what drives her to succeed, her views on the future of the profession, and her work inspiring the next generation of surveying talent.

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

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

Intelligence

- **Rethinking /**

Could the next person to share your coworking space be your child?

- **Opinion /**

Guendalina Dondé on the ethics of using AI in your business

- **Chartered territory /**

Construction's biggest challenge

Experience

- **Let me introduce /**

The tech enabling the agriculture industry to farm with precision

- **Way to go /**

The B1M's Fred Mills on bringing construction to a wider audience

- **What if … /**

Would abolishing stamp duty help solve the UK's housing shortage?

This issues main features include:

- **Cleaning up? /**

The UK government is going after money launderers and their ill-gotten gains. How is the property industry responding?

- **Time to stop putting people in boxes /**

A new breed of socially aware developers are championing a more human approach to housing the homeless

- **Fast out of the blocks /**

Can anyone keep up with Laura Collins MRICS, the RICS Matrics Young Surveyor of the Year?

- **The bottom line /**

Modern slavery practices are still endemic across the construction industry supply chain. Time for a complete culture change?

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

www.rics.org/uk/news-insight/publications/modus/ [accessed 25 April 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 April 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 April 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 April 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

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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 April 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 April 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` April 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:
- House of Lords calls for more legal rights for property guardians
- Human capital is key to driving corporate real estate strategy, says CBRE
- Office workers do too much 'binge sitting' during the working day
- Outsourced cleaning services in hospitals are 'cheaper but dirtier'
- Outsourced worker rights issue 'far from over' despite loss of legal case

Business News:
- Amey gains a place on CCS defence framework
- Spie UK wins contract with Liverpool City Council for FM at 10 schools
- Nationwide Property Solutions wins deal renewal with Nacro
- Kier wins £50 Hyde fire safety framework deal
- Engie acquires all shares in partner Cofely Besix FM

News analysis:
- New financial year: Tax hikes and spending cuts
- Government set to put social value 'at the hear' of future service procurement
- Chancellor focuses on SME apprenticeships
- Noise at work is impairing health and productivity, new survey reveals
- Workplace setbacks take long-term tolls on health

Source: Institute of Workplace and Facilities Management (IWFM), formerly BIFM (2019), *facilitate*, News, 1st and 4th April 2019, *facilitatemagazine.com* [online]. Further information available at: www.facilitatemagazine.com/news/ [accessed 25 April 2019], London: Redactive Media Group.

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The Heritage Alliance's latest '*Heritage Update*' E-Bulletin – 11 April 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 (11 April 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:

- The Heritage Alliance Receives National Heritage Funding!
- Heritage Legal Advice and Training Session with BWP LLP – 22 May
- April HeritageChat: 'How can we improve the legacies of archaeological community engagement in place making?'
- Sponsor Our Heritage and The Creative Industries Report
- Giving To Heritage

News round-up:

- Ecclesiastical to Launch £1m Movement for Good Awards
- **Charity Commission on Garden Bridge Project 'Failure' (1)**
- **London Cultural Organisations Launch Climate Change Campaign (2)**

Brexit (3)

- **EU Settlement Scheme Fully Open**
- **Visa Free Travel After Brexit**
- **Brexit Travelers Toolkit**
- **London Mayor Calls Universities Together to Discuss Brexit**
- **CLA Support 'Breathing Space' Offered by Brexit Extension**

Others news

- James Brokenshire Reminds Developers to Project Local Wildlife
- **UK Government Creates £36m Fund for British Coastal Museums and Heritage (4)**
- **Government Trials Open Doors Project to Transform Town Centres (5)**
- Michael Ellis Bars Export of Rare £3m Baroque Cabinet
- Government Announcement on Planning Inquiries Dodges Public Scrutiny
- **Help to Update the AIM Economic Impact Assessment Toolkit (6)**
- Europa Nostra Announces New Free Membership for Young People
- FBHVC Publishes Guidance on ULEZ for Historic Vehicle Owners

Have your say - Open consultations

and more.

Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 2019].

Lucy Top Searching Tip - This online edition also has a search function that allows you to view articles from current and archived editions.

https://twitter.com/Heritage_NGOs [accessed 25 April 2019]

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

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Charity Commission on Garden Bridge Project 'Failure'

The Charity Commission released **a report** on 9th April concluding findings of the management of the Garden Bridge Trust by its trustees. The Commission **has said:**

"Our statement of strategic intent makes clear that, in order to fulfil that purpose, we must understand the wider context in which charities work and lead thinking about how charities can thrive in a changing world, helping to shape and update the environment in which they operate and the wider debate on their future activities."

In the report, the Commission calls the Garden Bridge project "a high profile and expensive failure" and they have set out suggestions of the wider lessons that can be learnt for charities, for them as regulator, and for those making public policy decisions that involve charities in this way.

Related Links:

GOV.UK, Charity Commission for England and Wales (2019) 'The Garden Bridge project: Charity Commission concluding report' [GOV.UK Home > The Garden Bridge project: Charity Commission concluding report] GOV.UK [online]. Available at: www.gov.uk/government/publications/the-garden-bridge-project-charity-commission-concluding-report/the-garden-bridge-project-charity-commission-concluding-report [accessed 25 April 2019]

GOV.UK, The Charity Commission (2019) Decision: 'The Garden Bridge project: Charity Commission concluding report' [GOV.UK Home > Society and culture > Community and society] GOV.UK [online]. Available at: www.gov.uk/government/publications/the-garden-bridge-project-charity-commission-concluding-report?utm_source=c3ae385e-98d9-4eb1-89c4-706f7efb23de&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 25 April 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 2019].

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London Cultural Organisations Launch Climate Change Campaign

A range of cultural organisations have teamed up to declare a 'climate and ecological emergency'. On 3rd April, the **Culture Declares Emergency** (CDE) campaign was launched with a parade in central London, led by a horse and rider wearing a 'living grass coat' grown by artists Ackroyd and Harvey.

This global movement is made up of individuals and institutions from the arts, culture and creative sectors, and has been set up with the aim of promoting collective action on the climate crisis. A **toolkit on the CDE website** explains what the project is and how organisations or individuals can take part.

Related Link:

Culture Declares (2019) **'Culture Declares Emergency' – Arts and Culture organisations and individuals declare a Climate and Ecological Emergency'** [online]. Further information is available at: https://sites.google.com/view/culturedeclaresemergency/home [accessed 25 April 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 2019].

Brexit
EU Settlement Scheme Fully Open

The Home Office has announced that the **EU Settlement Scheme** if now officially open.

Individuals who are EU, EEA or Swiss citizens living in the UK, will need to ensure that they apply to the EU Settlement Scheme to protect the rights they currently have in the UK. This includes protected access to employment, healthcare, benefits and pensions. (Irish citizens or those with valid indefinite leave do not need to apply.

It is completely free to apply, and applications are open until 30 June 2021.

Related Link:

HM Government (2019) **'Apply to the EU Settlement Scheme'** [online]. Available at: https://eucitizensrights.campaign.gov.uk/ [accessed 25 April 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 2019].

Visa Free Travel After Brexit

The European Council and the European Parliament agreed last week (see publication date) that UK citizens travelling to the Schengen area after Brexit for a short stay (90 days in any 180 days), would be granted visa free travel.

This visa exemption is granted on reciprocity, in line with EU rules, following the UK Government's statement that it does not intend to require a visa from EU citizens travelling to the UK for short stays.

Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 2019].

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Brexit Travellers Toolkit

The Government has produced a **Stakeholder Communication Toolkit** for explaining the impacts on travellers to the UK in both a deal and no deal scenario. The toolkit contains key information and messages for use by partners, including images and text that can be either printed or added to an organisations' website.

You can also check the **GOV.UK website** for updated on visiting the UK after Brexit.

Related Links:

Home Office (2019), *Partner toolkit* [online]. Further information is available at: https://homeoffice.brandworkz.com/BMS/albums/index.cfm?album=1209&lightboxAccessID=9CA1F3EB-CA30-4E76-9AE51372E9B338CC& [accessed 25 April 2019]
GOV.UK, UK Visas and Immigration, Department for Digital, Culture, Media & Sport, Department for the Environment, Food & Rural Affairs, Department for Transport, and Border Force (2019) Guidance: 'Visiting the UK after Brexit' [GOV.UK Home] GOV.UK [online]. Available at: www.gov.uk/guidance/visiting-the-uk-after-brexit [accessed 25 April 2019]
Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 2019]. Back to top

London Mayor Calls Universities Together to Discuss Brexit

The Mayor of London, Sadiq Khan, is gathering representatives from 18 of London's leading universities together to discuss the implications of the Government's handling of Brexit and its future immigration proposals. The Mayor is concerned that proposals fall short on providing the flexibility London needs to attract skills and talent, including research, innovation and teaching in the higher education sector.

After the roundtable discussion at City Hall, organised by Imperial College London and the University of London, the Mayor will write to the Home Secretary and the Secretaries of State for Education and International Trade, setting out the key concerns discussed.

Sadiq Khan said: "I am urging ministers to introduce supportive policies to protect these important institutions, including flexible and clear post-study work opportunities for international students…I want all international students and academic staff to know that London is open to talent from across Europe and the world."

At the Heritage Alliance, they are in the process of updating their Immigration and Brexit briefings, which includes case studies from their academic members on how Brexit could, and has already affected, universities and both home and EU/EEA students in England. Visit the source link provided below to read the Heritage Alliance current **'Heritage and Immigration briefing'.**

Related Link:

Heritage Alliance (2018) 'The Alliance writes to the Immigration Minister' [online], 23 March. Available at: www.theheritagealliance.org.uk/update/the-alliance-writes-to-immigration-minister/ [accessed 25 April 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 2019].

CLA Supports 'Breathing Space' Offered by Brexit Extension

The Country Land and Business Association released a statement on 11 April 2019 to say that it welcomes the extension to the Brexit process as this will avoid an abrupt 'no deal' and the negative consequences it will bring for farming and the rural economy.

CLA President Tim Breitmeyer said: "In a political debate, which has become more and more heated and polarised, this provides some welcome breathing space to unite around the best way forward.

"While the continued uncertainty is unsettling, this should be balanced against having enough time to nurture a post-Brexit relationship with the EU which delivers as free and frictionless trade as possible. This has to be the ultimate goal.

"The extra time needs to be used wisely. We need a more consensual approach to negotiations in both Westminster and Brussels than has been the case to date, so a deal can be collectively delivered which meets the needs of farming and the wider economy."

Related Links:

The Country Land and Business Association (CLA) website [online]. Further information is available at: www.cla.org.uk/# [accessed 17 April 2019] and

CLA (2019) 'CLA Supports 'Breathing Space' Offered by Brexit Extension' [online]. Available at: www.cla.org.uk/cla-supports-%E2%80%98breathing-space%E2%80%99-offered-brexit-extension [accessed 17 April 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 2019].
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UK Government Creates £36m Fund for British Coastal Museums and Hertiage

A new £36m fund has been created by UK Government, with an aim to help develop and improve tourist attractions, create jobs and promote socio-economic growth around the British coast.

The fund, created from the government's Coastal Communities Fund and its Coastal Revival Fund, has been allocated to 70 projects in coastal areas of Britain, which includes new museums, heritage sites, historic buildings and innovative businesses.

Communities Secretary, James Brokenshire said, "All of the ambitious projects receiving funding were designed and developed by local people who know what will make the biggest difference to their areas … the sheer range of ideas demonstrates the potential of our coastal communities and will create good jobs, boost growth and improve people's lives now and in the future."

Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 2019].

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Government Trials Open Doors Project to Transform Town Centres

Yesterday (see publication date), Communities Secretary Rt Hon James Brokenshire MP **announced** the launch of a new trial project, which aims to support the changing face of the high street by welcoming community groups to make use of vacant spaces.

The Open Doors project in partnership with the **Meanwhile Foundation,** will allow community groups transform their town centres by renovating unused retail units and making them fit for purpose. The government has suggested that spaces could be used for small group activities like book clubs or after school activities for young people.

The project feeds into the government's wider ambitions to transform our high streets. The hope is that this partnership will help tackle social problems linked to declining high streets such as crime, unemployment and loneliness. The confirmed locations that will be part of the scheme are Stoke-on-Trent, Bradford, Rochford, Kettering and Slough.

Related Links:

GOV.UK, Ministry of Housing, Communities and Local Government, Jake Berry MP, and The Rt Hon James Brokenshire MP (2019) Press Release: 'Britain opens its doors to communities in need' [online]. Available at: www.gov.uk/government/news/britain-opens-its-doors-to-communities-in-need?utm_source=595cf269-34e1-4153-b331-f591e09c6d25&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 25 April 2019]
Meanwhile Foundation (2019) 'Meanwhile Foundation – Welcome' [online]. Available at: https://www.meanwhile.org.uk/ [accessed 25 April 2019]
Historic England (n.d.) 'Technical Conservation Guidance brochure' [Historic England Home > Advice > Technical Guidance > Looking After Historic Buildings > Technical conservation guidance brochure] GOV.UK [online]. Available at: https://historicengland.org.uk/advice/technical-advice/buildings/technical-conservation-guidance/ [accessed 25 April 2019]
Source: Heritage Update e-Bulletin [online], Issue **No 391,** 11 April 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 April 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 April 2019] and

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

Open Praxis, Volume 11, No. 1, January - March (2019)

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

Editorial -

Title: **Brief report on Open Praxis figures and data (2018)**

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

Abstract: This brief introduction in the first *Open Praxis* issue in 2019 reports on some and information and data about the *Open Praxis* development in the period from January 2013 to December 2018, with a special focus on volume 10, published in 2018. After the brief report, what follows is an introduction to the first Open Praxis issue in volume 11, which includes seven research papers.

Keywords: open education; distance education; higher education; adult learner; transnational; dropout; OER; open practice; ESL

Reference: Gil-Jaurena I (2019) 'Brief report on Open Praxis figures and data (2018)', *Open Praxis, 11*(1): pp1-4.

doi: http://dx.doi.org/10.5944/openpraxis.11.1.952 [accessed 25 April 2019]

Research articles -

Title: **Challenges Faced by Adult Learners in Online Distance Education: A Literature Review**

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

Abstract: Although online distance education provides adult learners with an opportunity for life-long learning, there are still factors challenging them to engage in educational processes. The purpose of this study is to explore the challenges faced by adult learners in online distance education through the analysis of the relevant literature. The articles (N=36) published in the key journals in the fields of open and distance education, instructional technology, and adult education were reviewed and analysed through constant comparative analysis in the current study. The findings reveal that adult learners have challenges related to internal, external,

and program-related factors indicating the interrelated nature of these challenges. The findings also show that the challenges experienced by adult learners vary depending on their age, gender, knowledge and skills as well as the context in which they study. The findings of this study, which has an exploratory nature, have several implications for distance education stakeholders such as administrators, instructors, instructional designers, and policy makers.

Title: **The Complexity of Transnational Distance Students: A Review of the Literature**

Abstract: Transnational education is a rapidly evolving and constantly changing field. The internet has enabled virtually global access to distance education opportunities, however transnational distance students in particular have often been miscategorised, oversimplified, or overlooked in prior research. This literature review synthesizes research and publications over a ten-year period focusing on the emerging phenomenon of transnational distance students. Contrary to the allure of flexible, any time, any place learning often ascribed to distance education, diverse and complex situations are highlighted that paint a more nuanced picture of student circumstances and motivations, counterintuitive and underrepresented conditions that may influence students in their decisions to enrol in transnational distance education programs.

Title: **Dropout patterns and cultural context in online networked learning spaces**

Abstract: Dropout is a major concern in networked learning practices, however, little is known about the issue within the perspective of cultural contexts. On this basis, cultural context and dropout patterns were examined through a mixed-methods approach in which social network analysis and two-way between-group comparisons (culture vs. dropout) were conducted. The samples comprised 179 MOOC learners who were active in a networked extension of the Introduction to Open Education MOOC (#openEDMOOC). The dependent variables of interest were centrality metrics, whereas the independent variables were dropout (i.e., yes-no) and cultural contexts (i.e., high-low). The findings of the social network analysis suggested that non-dropout learners hold central positions in the network. Furthermore, learners from high cultural contexts tend to drop out, whereas those from low contexts tend not to drop out.

Title: **Open Practices in Public Higher Education in Portugal: faculty perspectives**

Abstract: In recent years, the Open Educational Resources (OER) and Open Access (OA) movements have been essential in creating opportunities in all scholarly activities, within the context of higher education. The main purposes of this research was to understand how perceptions and practices of faculty towards OER are related to their perceptions and practices towards OA. It is an exploratory and descriptive study, with a mixed methods approach, undertaken in Portugal. Results indicate that, although faculty already show some degree of knowledge and use of OER and OA in their teaching and research practices, there is still a general lack of knowledge in both fields. However, the convergence of perceptions regarding both fields provide evidence on the possibility of a common approach to both fields in faculty's educational practices, with the purpose of opening up their educational and scientific resources, thus reinforcing the principles of transparency, collaboration and openness to knowledge.

Title: **"I find the whole enterprise daunting": Staff understanding of Open Education initiatives within a UK university**

Abstract: "Open" initiatives, which focus on increasing access to education, resources, and research, are often practised by individuals rather than universities. However, universities must now produce openly accessible research to comply with research funding and assessment requirements. To encourage staff participation, universities need to understand what participation barriers their staff face.

67 University of the West of England staff were surveyed about how they understood and participated in open initiatives. Four staff gave qualitative interviews about their experiences. This data was analysed to find correlates for participation and to identify participation barriers. Participants valued open initiatives and supported their underlying goal of increased public access. Staff faced many entry barriers, especially around resources maintenance, copyright, and permissions. Universities could reduce these issues by emphasising how open initiatives allow staff to save time and to avoid reduplicating resources, and by creating unified "open policies" that make staff permissions and restrictions clearer.

Title: **But What Do The Students Think: Results of the CUNY Cross-Campus Zero-Textbook Cost Student Survey**

Abstract: The results of the first cross-campus survey of student opinions on Zero Textbook Cost (ZTC) courses are in: City University of New York (CUNY) students like their ZTC courses as well as ways to improve the design and delivery of Zero Textbook Cost courses to make them more beneficial for student learning.

Title: **Self-study with the Educational Technology Tell Me More: What EFL Learners do**

Abstract: This study investigated 350 English as a foreign language (EFL) undergraduate students' use of Tell Me More (TMM), a language learning technology, for self-study in a university in the south of Thailand. Two questions guided the study: 1) What were learners' self-study practices with the TMM program? 2) How did learners' self-study practices enhance or undermine the purpose of using the TMM program? Self-report questionnaire with subscales from Students Approaches to Learning and a semi-structured focused group interview were used to investigate the participants' practices, effort and persistence on the TMM. The findings indicated that the learners multitasked to compensate for the lack of support from instructors and for assessment purposes, sometimes left the program on to count the time. The findings on the time of use suggested that self-study practices do not depend only on learners' attitude or features of the learning environment but also goals set by instructors. Additionally, the findings showed that learners made moderate effort of use and were inconsistent in their self-study practices. The findings shed new light on what accounts for the effective use of educational technologies and how practices could be improved. This study would guide developers of online learning curriculums and educators on learning goals and assessment types to be incorporated in online self-study programs.

Reference: Pete J, Mulder F, Oliveira Neto J, and Omollo K (2018) 'Differentiation in Access to, and the Use and Sharing of (Open) Educational Resources among Students and Lecturers at Technical
and Comprehensive Ghanaian Universities', *Open Praxis, 10*(4), pp405-421. doi: http://dx.doi.org/10.5944/openpraxis.10.4.917 [accessed 25 April 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 April 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 April 2019]

Most downloaded articles (as of 25 April 2019) incl.

1. Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources by Farrow R [et al.]
2. Predicting Dropout Student: An Application of Data Mining Methods in an Online Education Program by Yukselturk E [et al.]
3. Cross-Cultural Communication and Collaboration: Case of an International e-Learning Project by Toprak E and Genc-Kumtepe E
4. Differences Between Regular and Distance Education in a Teacher's Training Program by Zacharias G and Yiannis G
5. The Development of Distance Education Systems in Turkey, the Russian Federation and Saudi Arabia by Zawacki-Richter O [et al.]
6. Distance Education for People With Visual Impairments by Liakou M and Manousou E
7. Transactional Distance and Autonomy in a Distance Learning Environment by Vasiloudis G [et al.]
8. Learning and Digital Environment of Dance – The Case of Greek Traditional Dance in YouTube by Gratsiouni D [et al.]
9. Aesthetic Literacy: Observable Phenomena and Pedagogical Applications for Mobile LifeLong Learning (MLLL) by Gallagher M S and Ihanainen P
10. The Flipped-Classroom Approach: The Answer to Future Learning? Kurtz G, Tsimerman A, and Steiner-Lavi O

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 April 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.

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Introduction

- Introduction to the Special Issue [S.I.]: Introduction to Online Learning Volume 23, Issue 1

Cultural and International Perspectives

- As more distance education courses broaden their reach across borders, the chances of online classes being multicultural are high. This means that more often students may find themselves in courses designed for and by a host culture that differs from their own regarding its approach to teaching and learning. Compounding the difficulties inherent in a novel cultural environment and its unfamiliar forms of academic discourse are challenges represented by the medium itself. This year-long case study examines the experiences and reflections of a Chinese graduate student and her U.S. instructor; specifically, the accommodations both made to mediate differences and mitigate these challenges. Analyses suggest that when both parties take differences into account and exercise thoughtful accommodations relative to both the challenges of the online medium and language socialization, positive learning experiences can result.

Keywords: interculturality, online teaching and learning, instructor-student interaction, international students, academic discourse.

Empirical Studies

- Online education is expanding within higher education. However, attrition rates for African American males enrolled in higher education in general, and in online courses specifically, is on the rise. Because the future of our nation depends on how well our education institutions develop, nurture, and deploy talent, an investigation was conducted to identify factors that promoted online course completion among African American male undergraduate students. Ten males who successfully completed online courses were interviewed, and significant themes were identified. Factors that contributed to online course completion were financial assistance, prior academic achievement, previous information technology (IT) training, continuous academic enrolment, student selection of topics perceived as uncomplicated and less demanding or familiar due to sufficient prior knowledge, use of handheld digital devices, and a non-prejudicial learning environment. Based on these findings, recommendations are made that include strategies policymakers and educationists can implement to promote academic achievement and degree attainment among African American males in higher education.

Keywords: distance learning, distance education, online learning, online education, African American students, black students, undergraduate students, male students, university students, best practices, contributing factors, academic achievement.

- The purpose of this study was to investigate: (a) the characteristics of online students' cognitive presence in a peer-facilitated discussion environment, and (b) the peer facilitation techniques that enhance cognitive presence development. In this study, we examined 738 discussion messages. Analytic methods included both qualitative and quantitative content analysis. The findings revealed that although cognitive presence was detected in most discussion messages, they aggregated at a lower level. The involvement of peer facilitators was found to correlate with students' higher-level cognitive presence. In addition, we found that types of initiating questions asked by peer facilitators positively affected the level of cognitive presence. We also explored the facilitation techniques used by peer facilitators that aim to promote students' cognitive presence.

Keywords: Cognitive presence, peer facilitation, online instruction, discussion.

- Dempsey, P, Zhang J (2019) **'Re-examining the Construct Validity and Causal Relationships of Teaching, Cognitive and Social Presence in Community of Inquiry Framework'**, *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1419 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1419 [accessed 25 April 2019].

- Despite the prevalence of research on the community of inquiry framework and its associated measurement instrument, more research is needed to re-evaluate the factor structure, study the effects of covariates or measurement invariance, and explore the relationship amongst the three presences. Results of this study indicated that (a) teaching, social, and cognitive presence are each multidimensional and higher-order constructs; (b) measurement invariance was fully achieved for gender and partially for age, ethnicity, discipline, and online experience; (c) structural relationships of the three main constructs – teaching presence, social presence, and cognitive presence – suggested potential psychometric adjustments. The teaching presence construct in particular should be reconstructed to appropriately reflect and measure the construct as conceptually defined – as a distribution of teaching responsibility and authority – as opposed to how it is currently operationalised in the community of inquiry instrument – as a centralisation of responsibility and authority with the instructor.

Keywords: community of inquiry, structural equation modelling, online education.

- Blau G [et al.] **'Exploring the relationship of background, technology and motivation variables to business school transfer intent for two mixed course format business undergraduate samples'.** *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1416 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1416 [accessed 25 April 2019].

- Business students are increasingly taking online courses to supplement their more traditional face-to-face (F2F) course-delivered education. This study explored the relationship of background, course or technology, and motivation variables to business school transfer intent for a mixed course delivery sample of undergraduate business students taking online classes. Two separate samples of students taking both online and F2F courses i.e., mixed course delivery format, filled out an online survey in the fall 2016 and spring 2017 semesters. Intent to transfer business schools was lower for both samples. Results showed that being male, perceived favourability of online courses, and lower institutional commitment were significant correlates of intent to transfer across both samples. This outcome variable, intent to transfer, should be added to the research agenda for ongoing efforts across all universities and colleges when testing the impact of online education.

Keywords: intent to transfer, online courses, mixed course delivery format, institutional commitment.

- Change B (2019) **'Reflection in Learning'.** *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1447 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1447 [accessed 25 April 2019].

- This study explored the impact of reflection on learning in an online learning environment. Twenty-five students from four online courses participated in this research project. Reflection was purposefully designed and embedded in various assignments. Data were mainly collected from interviews and students' different types of reflections. The inductive content analysis method was employed to analyse data. Five themes were generalized in terms of how reflection impacts learning: Increasing the depth of knowledge, identifying the areas which are missing or deficient, personalising and contextualizing knowledge, providing comparative references in learning, and helping learners build structural connections in knowledge and social connections among learners. This study provides foundational ideas for designing reflective activities to promote students' learning in an online learning environment.

Keywords: Reflection; online learning; structure of knowledge.

- Pugh C (2019) **'Self-Determination: Motivational Profiles of Bachelor's Degree Seeking Students at an Online, For-Profit University', Online Learning,** [S.l.] 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1422 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1422 [accessed 25 April 2019].

- Grounded in the self-determination theory, this exploratory quantitative study investigates motivational profiles of bachelor's degree seeking students at online, for-profit university. Cluster analysis revealed two distinct motivational profiles (internally and externally regulated) of 158 students enrolled in a bachelor's degree program. The significant differences between the two profiles offers support for the multidimensional nature of motivation as argued by self-determination theory. A chi-square test of independence revealed a significant association between motivational profile membership and gender. No associations were found between motivational profile membership and gender. No associations were found between motivational profile membership and age. The results offer insights into the motivations of bachelor's degree seeking students

attending an online, for-profit university. Over two-thirds of the students in this study exhibited high external forms of motivation. It is recommended practitioners employ methods to increase autonomous forms of motivation in the online, for-profit educational setting. Understanding student motivations to graduate may help administrators, curriculum designers, and instructors develop focused interventions and best practices that could be used to increase graduation rates.

Keywords: self-determination theory, motivational profiles, academic motivation scale, online education.

The above & further articles are available via the source link provided below.

Faculty, Professional Development, and Online teaching

- Wasserman E, Migdal R (2019) **'Professional Development- Differences in teachers' attitudes between online and traditional training courses',** *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1299 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1299 [accessed 25 April 2019]

- The basic need for man to be constantly engaged in learning on the one hand and the technological revolution on the other hand lends itself to an interesting combination of change in the learning process. This change has not overlooked the teachers who have also undergone changes in their professional development at the Pisgah centers. The technology age has brought with it online learning. The purpose of this study is to examine the attitudes of the teachers training in the Pisgah centers in Israel on the differences between online and traditional training courses. This study was conducted using the quantitative methods with 495 teachers participating. The study findings indicate four main areas related to teachers' attitudes. Effectiveness and application, environment, course assignments and attitudes towards ICT. Significant differences were found in the environment variable and the ICT variable between online and traditional training in favour of online training. In addition, a multi regression analysis found that the effectiveness of the course can be explained by the variable: environment, course, assignments, and ICT.

Keywords: professional development, online learning, technology in education

- Andrews G (2019) **'Benefits of Online Teaching for Onground Teaching at a Historically Black Colleges and Universities'.** *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1435 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1435 [accessed 25 April 2019]

- Technology and distance education are on the rise in community colleges, 4-year institutions, Ivy League colleges, research institutions, and technical colleges. One of the most significant phenomena occurring in Historically Black Colleges and Universities (HBCU) today is distance education. Academic leaders can better implement professional development plans to promote online programs if they understand faculty perceptions about teaching online. This phenomenological research paper presents the results of 12 lived the experience of higher education faculty members at a HBCU who transitioned from a face-to-face teaching modality to a distance education instructional delivery and subsequently returned to the face-to-face classroom.

Keywords: online, face-to-face, HBCU, teaching experience, higher education, phenomenology

- Berry S (2019) **'Teaching to Connect: Community-Building Strategies for the Virtual Classroom',** *Online Learning*, [online], 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1425 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1425 [accessed 25 April 2019].

- A sense of community is central to student engagement and satisfaction. However, many students struggle with developing connections in online programs. Drawing on interviews with 13 instructors, this paper explores the strategies that they use to help students develop a sense of community in synchronous virtual classrooms. Four strategies for building community online are identified: reaching out to students often, limiting time spent lecturing, using video and chat as modes to engage students, and allowing class time to be used for personal and professional updates.

Keywords: learning community, community of inquiry, online learning, higher education

- Martin F [et al.] **'Award-Winning Faculty Online Teaching Practices: Roles and Competencies',** *Online Learning*, [online], 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1329 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1329 [accessed 25 April 2019].

- Given the explosive growth of online learning institutions of higher education, we are in dire need of guidelines for instructing new and continuing online instructors on how best to teach in online spaces. The purpose of this study was to identify the roles of the online instructor and categorize critical competencies for online teaching based on a review of research, and the perspectives of award-winning online faculty. In this article we interviewed eight award-winning online faculty members from across the United States. Based on interviews, it

was found that online instructors were assuming five different roles: Facilitator, Course Designer, Course Delivery, Subject Matter Expert, and Mentor. Participants' common tasks when designing and teaching an online course fell in two areas, either Course Design or Teaching. This research has clear implications not only for the literature research base, but for our institutions as well as we continue to offer increasing numbers of effective online courses and programs to our students.

Keywords: Online Instructor Roles, Online Instructor Tasks.

- Singleton K [et al.] **'Integrating UDL Strategies into the Online Course Development Process: Instructional Designers' Perspectives'**, *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1407 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1407 [accessed 25 April 2019].

- This qualitative case study design examined the perspectives that instructional designers at a 4-year research institution in the Mid-Atlantic region of the United States have about integrating UDL strategies into the online course development process. The participants were six individuals involved in the online course development process: four of the participants were instructional designers working for the Instructional Design Team, one participant was an assistant program manager in the Office of Distance Education, and the other was an instructional designer working in the College of Health and Human Services. The interviews focused on the participant's perspectives on the integration of UDL strategies and how they believe faculty perceived such practices. Using a series of semi-structured interviews and document analysis, three distinct themes emerged: (a) the importance of the instructional designer/faculty member partnership, (b) the number of factors impacting faculty adoption of UDL strategies in their online courses, and (c) faculty resistance to changes in how classroom accommodations are addressed in the higher education classroom. In addition to highlighting factors impacting the integration of UDL strategies, the findings also revealed techniques that could be useful in improving faculty adopting of such practices.

Keywords: Online learning, accessibility, UDL, universal design, disability, distance education, higher education, online course development, instructional design

Review of Literature

- Byrnes J, James D [et al.] **'Doctoral E-mentoring: Current Practices and Effective Strategies'.** *Online Learning*, [online.], 23(1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1446 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1446 [accessed 25 April 2019].

- Effective mentoring has been the cornerstone of a successful doctoral experience. Traditional doctoral education uses an apprenticeship model for mentoring to help students learn what is required as an academic professional. However, online environments present unique challenges to creating and maintaining mentor-mentee relationships. Using keywords specific to e-mentoring and online graduate education, literature searches were conducted to isolate relevant research from the last decade. From this literature, it was possible to synthesize current practices in e-mentoring and identify effective strategies to use for doctoral students conducting research. Using Yob and Crawford (2012) framework, results were organised into the following six independent categories: Competence, Availability, Induction, Challenge, Communication, and Emotional Support. Other aspects that impact the mentoring relationship are also discussed.

Keywords: E-mentoring; Higher Education; Graduate Education; Literature Review; Faculty-Student Collaboration

- Shazia K J, Vlachopoulos P, and Parsell, M (2019) **'Social Network Analysis and Online Learning Communities in Higher Education: A Systematic Literature Review'** *Online Learning* [online], 23 (1), March 2019. ISSN 2472-5730. Available at: https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1398 [accessed 25 April 2019]. doi: http://dx.doi.org/10.24059/olj.v23i1.1398 [accessed 25 April 2019].

- This paper presents the results of a systematic literature review which sets out to explore the use of social network analysis (SNA) for investigating online learning communities in higher education. The impetus for such a review originated from an increased interest by researchers in SNA techniques to investigate interactions and learning engagement in various types of online communities. However, the researchers often omit to ground their research and SNA methods in community-based learning frameworks such as communities of inquiry (Col) and Communities of practice (CoP). We identified a handful of studies that integrate SNA methods and key constructs from these frameworks and examined: SNA measures and corresponding theoretical constructs used; other analytical techniques used; limitations and; suggestions for further research. We found that while SNA is effective in detecting prominent participants, sub-groups and certain aspects of a CoP, a specific SNA measure cannot be correlated with a particular presence in a Col. Therefore, SNA needs to be complemented with a qualitative analytical technique. Whether SNA can be used as a stand-alone technique for identifying communities remains to be seen. We also find a lack of consideration to attributional and performance variables in existing studies. In conclusion, we propose the development of a fully integrated research framework for a holistic analysis of online learning and teaching.

Keywords: social network analysis, online learning, communities, systematic review.

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: https://www.merlot.org/merlot/index.htm [accessed 25 April 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 April 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 April 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 April 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 April 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 April 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 April 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 April 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 April 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 April 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 April 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 April 2019].

Related links:

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

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

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The Directory of Open Access Journals (DOAJ) –

The Directory of Open Access Journals covers all open access scientific and scholarly journals using a quality control system to guarantee the content.

The aim of the DOAJ is to increase the visibility and ease of open access scientific and scholarly journals, therefore promoting increased usage and impact.

Some key DOAJ facts (as of 25/04/2019):

- **13,069** journals
- **10,111** journals searchable at article level
- **130** countries
- **3,939,759** articles

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

Example articles/papers in the most recent issue include:

- **Time-frequency domain causality of prime building cost and macroeconomic indicators in Ghana: implications for project selection**

Oteng-Abayie E F, and Dramani J B (2019) **'Time-frequency domain causality of prime building cost and macroeconomic indicators in Ghana: implications for project selection',** *Construction Management and Economics,* 37(5), pp243-256, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/01446193.2018.1514125 [accessed 25 April 2019]

- **Taking on a wider view: public value interests of construction clients in a changing construction industry**

Kuitert L, Volker L, and Hermans M H (2019) **'Taking on a wider view: public value interests of construction clients in a changing construction industry',** *Construction Management and Economics,* 37(5), pp257-277, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/01446193.2018.1515496 [accessed 25 April 2019]

- **The leadership practices of construction site managers and their influence on occupational safety: an observational study of transformational and passive/avoidant leadership**
Grill M, Nielsen K, Grytnes R, Pousette A, and Törner M (2019) **'The leadership practices of construction site managers and their influence on occupational safety: an observational study of transformational and passive/avoidant leadership',** *Construction Management and Economics,* 37(5), pp278-293, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/01446193.2018.1526388 [accessed 25 April 2019]
- **Coordinated construction logistics: an innovation perspective**
Bengtsson S H (2019) **'Coordinated construction logistics: an innovation perspective',** *Construction Management and Economics,* 37(5), pp294-307, DOI: 10.1080/01446193.2018.1528372 [accessed 25 April 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 April 2019]

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

Research:
- The House of Commons: a precedent for post-occupancy evaluation
Schoenefeldt H (2019) '**The House of Commons: a precedent for post-occupancy evaluation**', *Building Research & Information*, 47(6), pp635-665, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09613218.2019.1547547 [accessed 25 April 2019]
- Life cycle assessment of a Danish office building designed for disassembly
Malabi Eberhardt L C, Birgisdóttir H, and Birkved M (2019) '**Life cycle assessment of a Danish office building designed for disassembly**', *Building Research & Information*, 47(6), pp666-680, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09613218.2018.1517458 [accessed 25 April 2019]
- **Communicating environmental information: rethinking options for construction products**
Ströbele B, and Lützkendorf T (2019) '**Communicating environmental information: rethinking options for construction products**', *Building Research & Information,* 47(6), pp681-696, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09613218.2018.1521191 [accessed 25 April 2019]
- **Stochastic Petri-net models to predict the degradation of ceramic claddings**
Ferreira C, Canhoto Neves L [et al.] (2019) **'Stochastic Petri-net models to predict the degradation of ceramic claddings',** *Building Research & Information*, 47(6), pp697-715, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09613218.2018.1501873 [accessed 25 April 2019]
- **A critical analysis of research of a mass-housing programme**
Kowaltowski D C C K, Muianga E A D M [et al] **'A critical analysis of research of a mass-housing programme',** *Building Research & Information,* 47(6), pp716-733, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09613218.2018.1458551 [accessed 25 April 2019]
Information
- Optimal spaces for those living with dementia: principles and evidence
Barrett P, Sharma M, and Zeisel J (2019) **'Optimal spaces for those living with dementia: principles and evidence',** *Building Research & Information,* 47(6), pp734-746, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09613218.2018.1489473 [accessed 25 April 2019]
- Healing built-environment effects on health outcomes: environment-occupant-health framework

Zhang Y, Tzortzopoulos P, and Kagioglou M (2019) '**Healing built-environment effects on health outcomes: environment–occupant–health framework**', *Building Research & Information,* 47(6), pp747-766, DOI: 10.1080/09613218.2017.1411130 [accessed 25 April 2019]

- **Policy implications for the performance gap of low-carbon building technologies**

McElroy D J, and Rosenow J (2019) '**Policy implications for the performance gap of low-carbon building technologies',** *Building Research & Information,* 47(6), pp611-623, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09613218.2018.1469285 [accessed 25 April 2019]

- **Conceptual approaches to wellbeing in buildings: a scoping review**

Hanc M, McAndrew C, and Ucci M (2019) '**Conceptual approaches to wellbeing in buildings: a scoping review',** *Building Research & Information,* 47(6), pp767-783, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09613218.2018.1513695 [accessed 25 April 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 April 2019]

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

- **Analysis of spatial variance clustering in the hedonic modeling of housing prices**

Gröbel S (2019) '**Analysis of spatial variance clustering in the hedonic modelling of housing prices',** *Journal of Property Research,* 36(1), pp1-26, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09599916.2018.1562490 [accessed 25 April 2019]

- **Co-movements between the US and the securitised real estate markets of the Asian-Pacific economies**

Liow K H, Zhou X, Li Q, and Huang Y (2019) '**Co-movement between the US and the securitised real estate markets of the Asian-Pacific economies',** *Journal of Property Research,* 36(1), pp27-58, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09599916.2019.1568283 [accessed 25 April 2019]

- **A machine learning approach to big data regression of real estate prices for inferential and predictive purposes**

Pérez-Rave J I, Correa-Morales J C, and Favián González-Echavarría F (2019) '**A machine learning approach to big data regression analysis of real estate prices for inferential and predictive purposes',** *Journal of Property Research,* 36(1), pp59-96, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09599916.2019.1587489 [accessed 25 April 2019]

- **External funding of major capital projects in the UK Higher Education sector: issues of demand, supply and marketing timing?**

McCann L, Hutchison N, and Adair A (2019) '**External funding of major capital projects in the UK Higher Education sector: issues of demand, supply and market timing?',** *Journal of Property Research,* 36(1), pp97-130, London: Taylor and Francis Online, Informa UK Limited, DOI: 10.1080/09599916.2019.1590453 [accessed 25 April 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

Please note: that the below-mentioned journals can be accessed (IN FULL) via the **VLE e-Library**, and by logging into **Athens – Section 2**, and by selecting **Ingenta Connect** via the **Resources** tab incl. following journals incl.

- Applied Marketing Analytics
- **Corporate Real Estate Journal**
- Cyber Security: A Peer-Reviewed Journal
- Journal of Airport Management
- Journal of Brand Strategy
- **Journal of Building Survey, Appraisal and Valuation**
- Journal of Business Continuity & Emergency Planning
- Journal of Cultural Marketing Strategy
- Journal of Data Protection & Privacy
- Journal of Digital & Social Media Marketing
- Journal of Digital Banking
- Journal of Digital Media Management
- **Journal of Education Advancement & Marketing**
- Journal of Financial Compliance
- Journal of Payments Strategy & Systems
- Journal of Risk Management in Financial Institutions
- Journal of Securities Operations & Custody
- **Journal of Supply Chain Management, Logistics and Procurement**
- **Journal of Urban Regeneration and Renewal**
- Management in Healthcare: A Peer-Reviewed Journal

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e-Journal Review Archive

When I started my role as the UCEM Information Governance Manager, I catalogued over **2000** e-Journal titles onto the A-Z Directory (section 3 of the VLE e-Library) and accessed via Athens.

Whilst cataloguing I was wondering how many of these e-Journals are actually being used within 'Recommended Reading' or 'Study Material' development by Tutors? Therefore, in each monthly issue of *Knowledge*

Foundations I will be highlighting a few e-Journals that are available and accessed through the UCEM Athens gateway as a current awareness service.

Please Note: the below e-Journals are available in <u>Full-Text</u> copies

The following journals have been reviewed thus far, i.e.

A	**Accounting Education (JAI)**	F	**'Foresight', an international bi-monthly journal concerned with the study of the future**
B	**Building Research and Information**	H	**International Journal of** Housing Markets and Analysis
	Business and Management in Higher Education (BMHE)	I	**Internet Research**
	Business Economics		**Interactive Technology and Smart Education**
	Journal of Economic Studies	L	**Landlord and Tenant Review**
C	**Campus-Wide Information Systems**		**International Journal of** Law and Management
	Construction Management & Economics		**International Journal of** Law in the Built Environment
	Construction Innovation: Information, Process, Management		**International Journal of** Law and Management
	Construction Law Journal and Construction Newsletter	M	**Journal of** Management and Sustainability
	Construction Management and Economics		**Management Research Review**
	Construction Newsletter		**International** Marketing Review
	Journal of Construction Research	O	**Journal of** Online Learning and Teaching (JOLT)
D	**Development and Learning in Organisations**		Open Praxis, **a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.**
	International Journal of Disaster Resilience in the Built Environment		**International Journal of** Organisational Analysis
	Disaster Prevention and Management	P	**Journal of** Planning and Environmental Law
E	**Oxford Bulletin of** Economics and Statistics		**Practice-based Learning**
	Journal of Economic Education		**Journal of** Property Investment and Finance **(Previously published as: Journal of Property Valuation and Investment)**
	Journal of Economic Literature		**Property Law Bulletin**
	Education + Training		**Property Management**
	Journal for Education in the Built Environment**, The**		**Journal of** Property Research
	International Journal of Educational Management	Q	**Quality Assurance in Education**
	Energy, Sustainability and Society	R	**Real Estate Economics**

	Enhancing Learning in the Social Sciences (EliSS)		**Journal of** Real Estate Portfolio Management
	Engineering, Construction and Architectural Management		**Journal of** Real Estate Research
	Engineering Education		**Reference Services Review**
F	**Facilities**		**Journal of** Research in Interactive Marketing
	Journal of Facilities Management	S	**Smart and Sustainable Built Environment**
	Financial Accountability and Management		**Structural Survey**
	Journal of Financial Management of Property and Construction		Sustainability
	Financial Practice and Education		**Journal of** Sustainable Development

Special issues:	
Property and Construction	**Online Learning [01/14]**
International Focus [07/13]	**Higher Education Academy Online [03/14]**
Higher Education [08/13]	**Environment [03/14]**
Law [09/13]	**Open Access and Online Learning [04/14]**
Research [10/13]	**Business and Management Education in Higher Education [05/14]**
Economics [11/13]	**Finance, Financial Management and Accounting [06/14]**
Sustainability [12/13]	**Research and Innovation in open, distance and flexible education [07/14], [03/15]**

Lucy's searching top tips – The reason why I am listing the topics covered and some of the journals reviewed each month is to provide a quick reference list and tool. Should you wish to access journals relating to a specialist area or journal, you i) access the latest issue of the *Knowledge Foundations* (available via the VLE e-Library and under section 6 – UCEM Published Material), ii) Have a quick browse down the list and identify your specialist journal or focus area. iii) In the case of Special issues, note the month that covered that topic, iv) go back to the VLE e-Library page and v) download the appropriate monthly *Knowledge Foundations* (formerly e-bulletin) which specialises in that subject area. ☺

To access the Directory of e-Journals, visit the VLE e-Library and scroll down to Section 3. Note: to access these journals in full online, you will need to log-in to Athens.

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e-Book Review

The **UCEM VLE e-Library** is currently building on its' e-Book collection, available through **Athens** and by clicking on **DawsonEra** (listed within **the Resources** section). It is hoped that over time, UCEM will provide greater access to e-Books over hard-copy versions to provide the students with greater flexibility and access to a wide range of publications.

Often books may have an excellent chapter covering a topic you wish to discuss, and this can prove expensive in purchasing and posting, when only a small section of the book is relevant. Therefore, drawing attention to an e-Book via the e-Library and recommending they read a particular chapter is much more efficient and effective and

allows UCEM to build their library as well as providing a wider range of publications for students to access and Tutors to use in supplementing their Teaching and Learning Materials.

Please note: By visiting the VLE e-Library and the various digital subscriptions that UCEM currently holds, students and tutors can gain access to a wealth of additional online material and catalogues incl. a range of reference e-books available within the construction and real estate sectors. For example, **IHS Information Services** and the **Construction Information Service** (accessible via Athens) holds a vast array of eBooks. You can also access **RICS** published material incl. eBooks via **ISURV** (accessed via Section 5 of the VLE e-Library).

Six books that are currently available are as follows:

1. The Battle for Open: How openness won and why it doesn't feel like victory

2. The new landscape of mobile learning: Redesigning education in an app-based world

3. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education

4. Studying at a Distance

5. Rethinking Pedagogy for a Digital Age, 2nd edition

6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

The first and sixth book, as well as the second 'book review' mentioned above are freely available online. However, the other three have been purchased by UCEM and are available, as e-Books, within the VLE e-Library and via Athens and Dawson Books. Once you have accessed DawsonEra, if you click on **'eBook Catalogue'** within the top toolbar, this contains UCEM purchased eBooks. Alternatively, you can search for the title within the Advanced Search engine.

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1. The Battle for Open: How openness won and why it doesn't feel like victory.

Weller, M. (2014). *The Battle for Open: How openness won and why it doesn't feel like victory* [e-book]. London: Ubiquity Press. Available at: http://dx.doi.org/10.5334/bam [accessed 25 March 2019]

Dominguez, D. (2015). Book review of The Battle for Open. *Open Praxis, 7*(2), 191-193. doi:10.5944/openpraxis.7.2.208

ISSN: 2304-070X, International Council for Open and Distance Education (ICDE)

Has the openness movement won the battle to transform itself into a mainstream phenomenon in higher education? If the answer is yes, does this mean that the disputes with other educational technological solutions, restricted, have definitely ended? Or rather is it only the beginning of a long confrontation to take centre stage in a digital ecosystem that is increasingly more nuanced, where the number of actors keeps growing and the limits on what is open is ever more diffuse?

In this new book, the author Martin Weller attempts to find answers to these questions. To do so, he introduces a group of quite varied subjects on evolution and the current state of higher education. As such, his contribution turns into an authentic manual for everyone who has an interest in the digitization of education.

Keywords: Open access; open education; OER.

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2. The new landscape of mobile learning: Redesigning education in an app-based world -

Miller, C., & Doering, A., (Eds.). (2014). The new landscape of mobile learning: Redesigning education in an app-based world (1st ed.). New York, NY: Routledge

Hetrick, T. (2015). Book review of *The new landscape of mobile learning: Redesigning education in an app-based world*. *Open Praxis, 7*(1), 113-115. doi:10.5944/openpraxis.7.1.178. ISSN: 2304-070X, International Council for Open and Distance Education (ICDE)

This is a book review on *The new landscape of mobile learning: Redesigning education in an app-based world*, by editors Charles Miller and Aaron Doering. This is an edited book, but one for which the editors sought out specific authors to write about their experiences and expertise on mobile learning. One of Miller and Doering's

goals is to promote greater thinking about mobile learning through the understanding that learning is a complex process built from pedagogical foundations that integrate social interactions with technology. The editors argue that a fundamental aspect to mobile learning is mobility, which is the ability to freely move about and collaborate in an authentic environment in which learners gain insight and construct knowledge. The authors try to address problems in mobile learning and put forth solutions, but this also highlights the fragmented problems of mobile learning as the book in itself is fragmented. Instead of treating mobile learning as its own system or field, it becomes evident that one should be describing mobile learning as mobile integration and explores how to use mobility in the everyday learning context. From the perspective of mobile integration, this book is very practical as the authors did an outstanding job of providing information about the steps of integrating mobile devices into specific areas to assist or augment learning.

3. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education

By Moore, C., (c2017). Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education. IGI Global

The integration of technology has become an integral part of the educational environment. By developing new methods of online learning, students can be further aided in reaching goals and effectively solving problems. *The Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education* is an authoritative reference source for the latest scholarly research on the implementation of instructional strategies, tools, and innovations in online learning environments. Featuring extensive coverage across a range of relevant perspectives and topics, such as social constructivism, collaborative learning and projects, and virtual words, this publication is ideally designed for academicians, practitioners, and researchers seeking current research on best methods to effectively incorporate technology into the learning environment.

4. Studying at a Distance -

By Talbot, C., (01/08/2010), Publisher: Open University Press

e-ISBN-13: 9780335238057

This essential guide provides practical help and support for those who have not previously studied at a distance and is ideal for students returning to study after a break. It covers fundamental issues such as motivation, goal setting, time management and coping strategies. Additional coverage in this third edition includes: specific information on the use of new technologies in distance learning; detailed coverage of referencing, citation and plagiarism; description of using mind maps and other techniques for planning and writing essays or reports; support for disabled students, particularly those with dyslexia; and, an expanded further resources section.

5. Rethinking Pedagogy for a Digital Age –

Edited by Beetham, H., & Sharpe, R., Publisher: Routledge

e-ISBN-13: 9780203078952

Through a critical Discussion of the issues surrounding the design, sharing and reuse of learning activities, the second edition of '*Rethinking Pedagogy for a Digital Age'* examines a wide range of perspectives on effectively designing and delivering learning activities to ensure that future development is pedagogically sound, learner-focused, and accessible.

Keywords: Education; Pedagogy; e-Learning

6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

Adding Some TEC-VARIETY by Curtis J. Bonk and Elaine Khoo

As this book states, "Motivation is central to all things human" and Online teaching and learning are no different.

The authors of this FREE ONLINE BOOK propose the TEC-VARIETY framework as a solution to the lack of meaningful engagement. It can shift learners from nearly comatose states to actively engaged ones. *Adding Some TEC-VARIETY* helps instructors focus on how to motivate online learners and increase learner retention. It also is a comprehensive, one-stop toolkit for online instructors to inspire learners and renew their own passion for teaching. Using 10 theoretically driven and proven motivational principles, TEC-VARIETY offers over 100 practical yet innovative ideas based on decades of author experience teaching in a variety of educational settings.

*Source: **Adding Some TEC-VARIETY*** by Curtis J. Bonk and Elaine Khoo [online]. Available at: http://tec-variety.com/ [accessed 25 March 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 April 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 April 2019]

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The Directory of Open Access Books (DOAB) –

The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable in order to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

Some key DOAB facts (as of 25/04/2019):

- **16,470** Academic peer-reviewed books from
- **315** publishers

The Directory of Open Access Books (DOAB) www.doabooks.org/doab [accessed 25 April 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 April 2019]
*Law*Trove [online]. Further information is available at: www.oxfordlawtrove.com/ [accessed 25 April 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 April 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 April 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 April 2019]

Latest info: Property and Real Estate catalogue [online] and available at: www.routledge.com/collections/4812 [accessed 25 April 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 22 March 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 April 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 March 2019] and http://eu.wiley.com/WileyCDA/ [accessed 25 April 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 April 2019]

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

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

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Information Governance incl. © Guidance and Data Protection:

"It is important to remember that Copyright material in digital form is protected in exactly the same way as Copyright material in any other format. For example, text and images on a website are protected by copyright in the same way as printed material.

Please note: it 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 April 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 April 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 April 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 April 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 April 2019]

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Latest Copyright News:

Article 13: Memes exempt as EU backs controversial copyright law

- Copyright laws which critics say could change the internet have been voted in by the European Parliament. The new rules, including the controversial Article 13, will hold tech firms responsible for material posted without copyright permission. Sharing memes and GIFs (stills, animated or short video clips that go viral) will still be allowed under the new laws. Many musicians and creators say the legislation will compensate artists fairly – but others argue that they will destroy user-generated content.

Copyright is the legal right that allows an artist to protect how their original work is used. Tech companies have argued that artists are already paid fairly under the current system. Google said it would "harm Europe's creative and digital industries".

It has taken several revisions for the current legislation, which was backed by 348 MEPs, with 274 against, to reach its final form. It is now up to member states to approve the decision. If they do, they will have two years to implement it once it is officially published.

The two clauses causing the most controversy are known as Article 11 and Article 13.

- Article 11 states that search engines and news aggregate platforms should pay to use links from news websites.

- Article 13 holds larger technology companies responsible for material posted without a copyright licence. Tech companies already remove music and videos which are copyrighted, but under the new laws they will be more liable for any copyrighted content.

It means they would need to apply filters to content before it is uploaded.

Article 13 does not include storage service and there are already existing exemptions, including parody, which, for example, includes memes.

This and further information are available at:
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 April 2019]
Related Links:
BBC News > Copyright [online]. Available at: www.bbc.co.uk/news/topics/c4wl5zqxv9xt/copyright [accessed 25 April 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 April 2019]
From the above-mentioned link you can also gain further information about **Internet; Intellectual property; European commission; Europe; Small business; European Union** and **news**
Find the **latest copyright news** from WIRED incl. Finley K (2018) 'Europe's New Copyright Law Could Change The Web WorldWide' [WIRED > Home > Business] WIRED [online]. Available at: www.wired.com/story/europes-copyright-law-could-change-the-web/ [accessed 25 April 2019]
The Guardian Online (2018) European Commission [online]. Available at: www.theguardian.com/world/european-commission [accessed 25 April 2019]
The Guardian Online (2018) Europe [online]. Available at: https://www.theguardian.com/world/europe-news [accessed 25 April 2019]
Malik K (2018) 'A fairer deal on web copyright doesn't need the bovver 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 April 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 April 2019]

Lucy's top searching tips – If you are searching for i.e. 'Joint letter to European politicians on Article 13 of Directive on Copyright in the Digital Single Market' [online]. Available at: www.eff.org/search/site/article%2013%20of%20the%20EU%20copyright%20Directive [accessed 25 April 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 April 2019], rather than to the holding page where the PDF sits in the background. The reasoning for this is that (i) holding page links can change, (ii) documents can be moved around and (iii) in some cases where copyright permission has been sought and agreed for organisations to upload PDF documents, it is good academic practice to ensure that you do not link direct to the PDF itself, and locate either the original source, or link to a public domain website where T&Cs and copyright can be reviewed. Also, by referencing items correctly and using search facilities as identified above, if hyperlinks do not work, you will have sufficient information (within the reference) to hopefully be able to source the item elsewhere.

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Data Protection

Get on track with the new Data Protection rules

As of 25 May 2018, the EU General Data Protection Regulation (GDPR) replaced the EU's Data Protection Directive. This means, that a single set of data protection rules applies to all companies operating in the EU, wherever they are based.

Get introduced to GDPR – This is the most important change to data privacy regulation in 20 years across Europe.

Where to find guidance - Gain access to a variety of resources available which provide useful information on the changes.

GDPR factsheets – Factsheets providing useful and practical case studies, focusing on specific sectors. These factsheets (accessed via the source link provided below) have been developed by DLA Piper in collaboration with RICS to provide useful and practical case studies, focusing on specific sectors, incl.

- **Building surveying; Construction cost management; Property agency; Property management;** and **Property valuation.**

Penalties – Organisations in breach of GDPR can be fined up to 4% of annual global turnover or €20 million (whichever is greater). This is the maximum fine that can be imposed for the most serious infringements.

Consent – Companies will no longer be able to use long illegible **terms and conditions** full of legalese, as the request for consent must be given in an intelligible and easily accessible form, with the purpose for data processing attached to that consent (EUGDPR.ORG Portal, 2018).

Roles: 'Controller' or 'Processor' In considering who GDPR applies to, the terms 'controllers' and 'processors' are used. To provide a simple definition:

- Controllers determine the purpose and means of processing personal data.

- Processors are responsible for processing personal data on behalf of a controller.

As a processor, GDPR places specific legal obligations to main records of personal data and processing activities. The processor will have legal liability and be responsible for a breach.

For Controllers, GDPR places further obligations on you to ensure your **contracts** with processors comply with the GDPR.

Will GDPR matter for organisations in the UK after Brexit?

For companies in the UK if you process data about individuals in the context of selling goods or services to citizens in other EU countries then you will need to comply with the GDPR, irrespective as to whether or not the UK retains the GDPR post-Brexit.

Source: RICS (2018), 'New HMO rules come into effect in England on 1 October 2018' **[RICS > Get on track with the new Data Protection rules]** RICS [online]. Available at: www.rics.org/uk/footer/gdpr/ [accessed 25 April 2019].

Related Links:

Following on from the earlier comment relating to GDPR in the UK after Brexit, on 13th September 2018, the Department for Digital, Culture, Media & Sport published the following guidance @ GOV.UK

Guidance: Data protection if there's no Brexit deal

GOV.UK, Department for Digital, Culture, Media and Sport (2018), 'Guidance: Data protection if there's no Brexit deal' [online], 13 September. Available at: www.gov.uk/government/publications/data-protection-if-theres-no-brexit-deal/data-protection-if-theres-no-brexit-deal [accessed 25 April 2019]

& other related links:

EUGDOR.org portal (2018) 'GDPR Key Changes' [online]. Available at: www.eugdpr.org/key-changes.html [accessed 25 April 2019]

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

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

Designing Buildings.co.uk Wiki, (2018) 'General Data Protection Regulations (GDPR)' [online], last edited 11 May 2017. Further information is available at: www.designingbuildings.co.uk/wiki/Home and www.designingbuildings.co.uk/wiki/General_Data_Protection_Regulations_(GDPR) [accessed 25 April 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 inform an ever more digital direction, our personal data, how it is used and who has access to it becomes a growing and global concern for all.

The General Data Protection Regulation (GDPR) is the first legislative change in recent years that will address these concerns, with a broad aim to invoke a cultural shift in the way organisations manager personal data.

Source: ICO [n.d.], Posters, stickers and e-learning [online]. Available at: https://ico.org.uk/for-organisations/resources-and-support/posters-stickers-and-e-learning/ [accessed 25 March 2019]

Other useful Information, Advice and Guidance on Data Protection, GDPR and more can be found at the Information Commissioner's Office (ICO) including:

- Guides to the legislation incl. **Data Protection;** Freedom of information; Electronic communications and marketing; Environmental information; Spatial information; and Re-use of information

- In your sector covers – **Education;** Health; Small business; **Marketing;** Local government; Police, justice and surveillance; Charity; Finance, insurance and credit; Elected reps and political parties; and the media

Resource and support covers -

- **Getting ready for the GDPR checklist –** designed to help you get your house in order, ready for the new legislations. Includes getting to grips with new rights of individuals, handling subject access requests, consent, data breaches, and designating a data protection officer.

Self-assess, training and promote incl. -

- **Data protection self-assessment toolkit,**

- **Posters, stickers and e-learning** (incl. the above)

- **Training videos,**

- **Webinars,**

- **Health sector resources,** and

- **Personal information promise**

Information Commissioner's Office (ICO), *Resource and support* [online]. Available at: https://ico.org.uk/for-organisations/resources-and-support/ [accessed 25 April 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 April 2019]
Korn N (2018) **'GDPR: What you can do now?'** [online], Naomi Korn Copyright and Compliance blog, 1st April. Available at: https://naomikorn.com/blog/ [accessed 25 April 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 of 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 April 2019]

GOV.UK, Department for Digital, Culture, Media and Sport, and Margot James MP (2018), News Story: 'Data laws made fit for the digital age' [online]. Available at: www.gov.uk/government/news/data-laws-made-fit-for-the-digital-age?utm_source=792e6351-26af-4550-abe1-85b07a4a97a5&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 25 April 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 April 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 April 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 April 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 April 2019] a vast array of 'subject fields' are identified incl.

Construction: Within the 'Construction' section of the HSE website, there is further information on – new to health and safety; safety topics; health topics; Construction Design and Management; Leadership and worker involvement toolkit; Migrant workers in construction; Worker engagement; current campaigns; Managing health risks (COHME); Construction FAQs; Construction news including news and updates about health and safety in the construction industry & Info net including RSS feeds and Construction e-bulletins to sign up to.

Health and Safety in the Construction Industry - www.hse.gov.uk/construction/

Health and Safety in Construction - www.hse.gov.uk/pubns/books/hsg150.htm

HSE Publications: Free Leaflets – Construction www.hse.gov.uk/pubns/conindex.htm

Construction (Design and Management) Regulations 2015 - www.hse.gov.uk/construction/cdm/2015/index.htm

Statistics – Industries www.hse.gov.uk/STATISTICS/industry/index.htm

Statistics - Construction Industry www.hse.gov.uk/STATISTICS/industry/construction/index.htm

Fatal injury statistics, summary for 2017/18 www.hse.gov.uk/statistics/fatals.htm

Latest quarterly fatal injury figures for 2017/18 www.hse.gov.uk/statistics/fatalquarterly.htm

[N.B. Websites accessed 25 April 2019]

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2. Revo – Retail. Property. Community.

(formerly British Council of Shopping Centres (BCSC))
BCSC (British Council of Shopping Centres) was the professional body for retail property – an authoritative voice for UK retail-led regeneration and for the management of and investment in shopping places. However, BCSC is changing and is now Revo.

Revo supports the people and businesses involved in the diverse world of retail property and placemaking to thrive and prosper – energizing and driving progress for our community. As stated within their new website:

A broader remit – Revo are now embracing all kinds of retail property and all kinds of stakeholders. This diversity makes Revo uniquely placed to champion real improvements and positive change for this sector

Working together – Revo intend to harness the collective experience, as well as the influence and resources of their network to challenge and shape this industry for the future

The influencers – Revo are there to help shape the future of the retail property and placemaking industry. They will be engaging with even more senior figures in key government departments to raise awareness of Revo locally and nationally.

The network – Who you know is just as important as what you know. Revo members have a broad base, with specialisms and experience of all kinds. Revo aim to create more relevant and accessible business and career development opportunities and make sure the industry has the right people, with the right skills.

The benchmark – Revo sets standards, recognizes achievement and sparks ideas. A new educational programme will meet the needs of industry professionals throughout their careers, and there will be a renewed focus on apprenticeships. Revo are also expanding their Awards Programme to better reflect the diversity of the industry.

The trend spotters and thought leaders – Revo intends to stay ahead of the curve, prepared for and embracing the future. They will analyze trends, interpret market data and organize focused working groups and think tanks run by true experts in their fields. They will produce pioneering research and insight papers and establish Revo as the place to come for authoritative commentary.

Having a broad message membership means that the Revo community stay well informed about the large range of issues affecting property owners, developers, investors, asset managers, retailers, consultants, shopping centre managers and public-sector employees and can utilize this network to develop solutions to many of the industry's current challenges.

- **Revo Insights –** Revo conduct innovative research into new trends and are the go-to organization for authoritative commentary and insight on industry and political issues. Revo produce thought-provoking content and engaging communications, making sense of the future of our community. Information contained within incl. Latest research and quarterly retail briefings, Industry reports, Guidance notes, Opinion and Trend Bites. Revo Insights [online]. Available at https://www.revocommunity.org/insights [accessed 25 April 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 April 2019]

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

<u>N.B.</u> 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 April 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=oKPwIeWFbXQ [accessed 25 April 2019]

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5. RICS (Royal Institution of Chartered Surveyors)

- **RICS (Royal Institution of Chartered Surveyors)** is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction -

RICS are a global professional body promoting and enforcing the highest international standards in the valuation, management and development of land, real estate, construction and infrastructure.

By visiting RICS website, you will gain access to a range of

RICS Useful links @ www.rics.org/uk/ [accessed 25 January 2019] that provides direct links through to information relating to the following topic areas/keywords incl.

• **Environment,** • **Geomatics,** • **Minerals & waste,** • **Planning & development,** • **Rural,** • **Arts & antiques,** • **Commercial property,** • **Dispute resolution,** • **Facilities management,** • **Machinery & assets,** • **Management consultancy,** • **Residential property,** • **Valuation,** • **Building control,** • **Quantity surveying & construction,** • **Project management,** • **Building surveying,** • **BIM,** • **Infrastructure,** • **Measurements, and** • **Party walls,**

aswell 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 April 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 April 2019]

RICS Library Services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 25 April 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 April 2019]. Policy latest is cover earlier in the e-bulletin.
- **Ambassadors** and informed about the CIOB ambassador programme

- **Magazines** – including information and access to *Construction Research and Innovation* **(CRI), The** *Construction Manager* **Magazine (CM), and** *Global Construction Review* **(GCR).** CIOB Magazine [online]. Available @ www.ciob.org/media-centre/magazines [accessed 25 April 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 April 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 April 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 April 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 April 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 April 2019] and click on **'Search the hub'**

Source: The Construction Information Service (CIS) - *Briefing (UK – November 2014)* [online]

Please note: CIS can be accessed through the **Athens gateway** http://www.openathens.net/ and by selecting **'IHS Information Services (incl. the Construction Information Service (CIS))'**. The Briefing can be downloaded from the CIS homepage.

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

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

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 April 2019]

12. COPAC* –

COPAC* exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search you can discover the holdings of the UK's national libraries (including the British Library), many University libraries, and specialist libraries [online]. Further information is available at www.copac.ac.uk [accessed 25 February 2019]

Researchers and educators use COPAC* to save time in their research, to quickly and easily discover and locate resources, to check documents details, review materials etc. Information professional trust COPAC* to give them access to a unique pool of high-quality bibliographic information.

COPAC* is a Joint Information Systems Committee (JISC) service, provided for the UK community based on an agreement with Research Libraries UK (RLUK). The service uses records supplied by RLUK members, as well as an increasing range of specialist libraries with collections of national research interest.

COPAC* is a registered trademark of The University of Manchester.

NOTE: **Institution of Civil Engineers (ICE) Library catalogue has been added to COPAC* –** COPAC* has loaded the catalogue of the Institution of Civil Engineers Library onto COPAC*. See the COPAC* blog [online] and available @ http://blog.copac.ac.uk/2015/04/13/institution-of-civil-engineers-library-catalogue-loaded/ [accessed 25 April 2019] for full details.

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 April 2019]

UCEM e-Library portrait

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

As of April 2019, a search of 'construction' on the internet produces over **3,330,000,000 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.
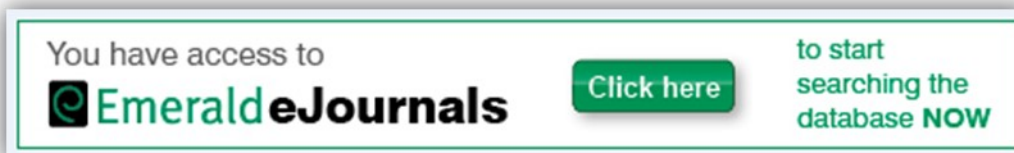
NOTE: For the above link to work you must ensure that you are logged-in to **Athens** - **Section 2 of the VLE e-Library**

People have access to so much information these days and particularly through the Internet. **"Demonstrating to both UCEM staff and students what their e-Library can do for them remains a key priority."** Lucy Roper, UCEM Information Governance Manager

Some key facts and figures about the UCEM e-Library

Access to -

- over 2000 Full-Text Journal Titles (accessed through EBSCO Business Source premier, Emerald Insight, Taylor&Francis Online, IngentaConnect, as well as specialist Law Journals via Westlaw)
- over 1000 useful web links to e-Resources
- online searchable databases from 15 key industry specific & educational sources (including the RICS - Royal Institution of Chartered Surveyors online published material via ISURV and their Building Cost Information Service (BCIS), Building Services Research and Information Association (BSRIA), and industry specific journal, *Estates Gazette.*

- A discovery service to allow students and staff to search all the UCEM Library services and e-Resources in one place
- Athens gateway – access and identity management system to allow single-sign on to Library subscription serviced
- a direct link to UCEM's entire library of study material catalogue
- UCEM Published Research and back issues of this copy of *Knowledge Foundations* and formerly eBulletin
- Access to UCEM Research and Occasional Paper series, Reports and Publications, and Archive
- Reading lists, bibliographies and literature reviews incl. Abstracts and indexes of external databases
- Further Information, Advice and Guidance notes, discussion documents and fact sheets

UCEM e-Library enquiry service –

UCEM are constantly striving to improve the online resources available to support learning and development. Therefore, having listened and responded to requests, the e-Library has now set up an enquiry service so that library queries can be put direct to an information specialist. So why not email today at library@ucem.ac.uk ?

Or access the e-library online. Available @ www.ucem.ac.uk [accessed 25 April 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

In September 2015 the Construction Industry Training Board (CITB) launched a response on behalf of many of the industry's training and professional bodies to the persistent call over the last year or more for a single portal – namely **GoConstruct.org** to help schoolchildren and others to explore job and career options within the construction sector, ranging from professional and managerial to trade and supervisory occupations. Hopefully it will cover every role you can think of? The CITB and Construction Excellence website have recommended everyone/readers to take a look at www.goconstruct.org, pass on the link to those who can use it – and also provide feedback.

Ward, D., 17 September 2015, Constructing Excellence website [online]. Further information is available at: http://constructingexcellence.org.uk/new-careers-website-launched-goconstruct-org-2/ [accessed 25 April 2019]

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

@GoConstructUK or

Related Link:

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

#ElizabethLine

TARGETjobs

All TARGETjob graduate careers guides and directories are available for you to view online and download for future reference incl. **Property 2019** and **Engineering 2019.**

TARGETjobs (2018) 'Graduate careers guides and directories from TARGETjobs' [online]. Available at: https://targetjobs.co.uk/careers-products [accessed 25 April 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 April 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 April 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 – 5 things to know for your Apring 2019 RICS APC - April 2019

Lucy Top Tip – If you are planning to sit your RICS APC/AssocRICS this Spring, 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 discussing 5 things to know for your Spring 2019 RICS APC.

- Changes to RICS Firm Regulation

- New residential legislation, Homes (Fitness for Human Habitation) Act 2018

- New Streamlined Energy and Carbon Reporting (SECR) regime

- Changes to MEES from 1 April 2019 for domestic landlords

- Changes to RICS rules relating to Professional Indemnity Insurance run-off cover

1. Changes to RICS Firm Regulation – RICS have made changes to their rules for Firm Regulations, as well as use of the RICS logo and designation by firms. The aim of the changes is to allow RICS and firms to adapt to the current marketplace, updating the rules which were mainly published in their current form in 2007. The changes apply from 1 April 2020, allowing firms as 12-month transitional period to ensure they comply with the new requirements. Under the requirements, a qualified member if defined as being AssocRICS, MRICS or FRICS. It doesn't include student members or other non-qualified designations. **The main changes in the 'RICS Rule for Registration of Firms (Version 6)** is covered via the below source link.

2. New residential legislation, Home (Fitness for Human Habitation) Act 2018 – This new legislation will be discussed at length within a future blog article.

However, by way of a short summary it applies to landlords of domestic rented properties from 20 March 2019. It aims to ensure that all rented accommodation is fit for human habitation, as well as strengthening tenants' means of redress. Whilst it does not create any new obligations, it ensures that landlords are meeting their existing responsibilities relating to property standards and safety.

3. New Streamlining Energy and Carbon Reporting (SECR) regime – The Carbon Reduction Commitment (CRC) Energy Efficiency Scheme was a mandatory carbon emissions reporting and pricing scheme for large public and

private sector organisations using over 6,000 MWh of electricity p.a. and who had at least 1 half hourly meter. However, it will be abolished following the 2018-2019 compliance year, with the last reports submitted by companies in July 2019. It has been replaced by the Streamlined Energy and Carbon Reporting, e.g. global energy use (quoted companies), UK energy use (large companies and LLPs) and energy action taken.

4. Changes to MEES from 1 April 2019 for domestic landlords – We have discussed the Minimum Energy Efficiency Standard (MEES) at length in a previous blog article. However, the Government have introduced additional requirements under the Energy Efficiency (Private Rented Property) (England and Wales) (Amendment) Regulations 2019 (the 2019 Amendment Regulations).

5. Changes to RICS rules relating to Professional Indemnity Insurance run-off cover – RICS have made changes to the requirements around Professional Indemnity Insurance (PII) run-off cover in the UK. These are published in Version 4 guidance effective from 1 April 2019. The aim is to ensure that all RICS Regulated Firms have access to run-off cover, providing better protection to consumers. Run-off cover is required when a firm or member ceases to trade. This must be on a claims-made basis and fully retroactive, so it covers all historic work carried out by the firm.

The new requirement still requires firms to have 'adequate and appropriate' cover for 6 years in relation to commercial claims.

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.

For further information, please visit:

Source: Lemen-Hogarth J (2019) *Hot Topic Highlight – 5 things to know for your Spring 2019 RICS APC* [online], Property Elite LLP. Available at:

https://property-elite.co.uk/blog/hot-topic-highlight-5-things-rics-apc-spring-2019 [accessed 25 April 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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BUILT • ENVIRONMENT • EDUCATION

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 April 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).

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 April 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** (2018) [online]. Further information is available at: https://www.designingbuildings.co.uk/wiki/BREEAM_Wiki [accessed 25 April 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.

BBC Plastics Watch Resources

- Bringing together the best content from around the BBC to help you discover everything you want to know about plastics.

Areas covered within the BBC Plastics Watch Resource area incl.

- **Beach Cleans and Volunteering** – #2minutebeachclean; Find, join or start a free refill scheme; Marine Conservation Society; National Trust: Pitch in with a Beach Clean; Surfers Against Sewage; Thames 21: Volunteer for river clean ups; and The Wildlife Trusts: Volunteer,

- **Plastics Free Living** – Friends of the Earth: Can you go plastics free?; Marine Conservation Society: Can you go a month without plastic?; A Plastic Planet: A plastic-free aisle; and Surfers Against Sewage: Plastic free communities,

- **Changing the Plastic Based Economy** – New Plastics Economy; and The Plastics Pact,

- **Research** – *UN Environment: Single-use plastics: A roadmap for sustainability; UN Environment: The state of plastics: World environment day outlook 2018;* and *UN Environment: Exploring the potential for adopting alternative materials to reduce marine plastic litter*

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

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 April 2019]

QSAND and the Sustainable Development Goals

Source: **Designing Buildings.co.uk Wiki,** (2018) 'Forgetting the big picture when considering sustainability' [online], last edited 27 April 2018.

Further information is available at: www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals [accessed 25 April 2019]

- The UN Sustainable Development Agenda, adopted by world leaders in 2015, maps out a 15-year plan to fight inequality, end poverty, and tackle climate change challenges. The 17 goals (as identified within the above figure) are designed to build upon the Millennium Development Goals and go further towards ensuring sustainability is at the forefront of human development up until 2030.

From Building Research Establishment (BRE), sustainability and resilience are key focus areas. QSAND (Quantifying Sustainability in the Aftermath of Natural Disasters) is a self-assessment tool to promote sustainable approaches to relief, recovery and reconstruction after a natural disaster. Through QSAND we are making a contribution to aid the achievement of several of these goals in disaster-affected communities around the globe.

Central to the thinking behind the QSAND tool is that sustainable approaches to reconstruction can help limit the impact disasters have in the short, medium and long term and improve the resilience of local communities to future disasters as they occur. It is this holistic approach and a strong focus on the development of local skills and capabilities that demonstrates QSANDs 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 again the maintenance of livelihoods and economic prosperity. Often, protecting natural resources can also support livelihoods, further reducing a communities vulnerability to disasters.

Whilst QSAND is designed as a tool to be used in response to a specific disaster to support the recovery process, its sustainability scope is wider than this. By considering the medium to longer-term impacts of decisions made in the early days of disaster recovery, it helps provide a framework that can help avoid, limit or mitigate further harm to the natural environment that can occur during reconstruction.

QSAND is proud to support the aims laid out in the Sustainable Development Goals, and support efforts to contribute to the global movement towards a sustainable, resilient, and prosperous future.

Source: **Designing Buildings.co.uk Wiki,** (2019) 'QSAND and the Sustainable Development Goals' [online], last edited 10 January 2019. Further information is available at:

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

Related Links:

What to expect of sustainability professionals

Designing Buildings.co.uk Wiki, (2018) 'What to expect of sustainability professionals' [online], last edited 16 November 2017. Further information is available at:
www.designingbuildings.co.uk/wiki/What_to_expect_of_sustainability_professionals [accessed 25 April 2019]

Further information and related articles via the above mentioned link incl.

- **Articles by ICE (Institution of Civil Engineers) on Designing Buildings Wiki,**
- **Consultant team for design and construction,**
- **Design team meeting,**
- **Navigating beyond sustainability buzzwords,**
- **Sustainability,**
- **Sustainable materials,** and
- **Sustainable procurement.**

Source: **Designing Buildings.co.uk Wiki,** (2018) 'Forgetting the big picture when considering sustainability' [online], last edited 27 April 2018. Further information is available at:
www.designingbuildings.co.uk/wiki/Forgetting_the_big_picture_when_considering_sustainability [accessed 25 April 2019]

Sustainability in building design and construction

Source: **Designing Buildings.co.uk Wiki,** (2017) 'Sustainability in building design and construction' [online], last edited 30 June 2017. Further information is available at:
www.designingbuildings.co.uk/wiki/Sustainability_in_building_design_and_construction [accessed 25 April 2019]

NOTE: Use of Wikipedia as a reference site:

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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 April 2019]
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Sustainability in Facilities Management (FM) – A useful online tool and resource pool

The Sustainability in Facilities Management (Sustainability in FM) web site provides a practical, easy to use first point of contact for Facilities Managers where best practice case studies on sustainability topics can be found. All case studies are vetted to provide relevance to Facilities Management, practically and absence of marketing spin. The web site also provides Facilities Managers with background information on the most common sustainability issues and links out to recommend centres of excellence.

"Knowledge Transfer Partnerships" (KTP) are a Technology Strategy Board programme set up to improve competitiveness and productivity through the better use of knowledge, technology and skills. The Sustainability in FM research project is a partnership between the British Institute of Facilities Management (BIFM) and the University of Reading under this part government funded scheme.

The aim of the project is to develop practical tools for the FM professional so that they can improve the implementation and management of sustainable practices in the working environment.

Please note: To register on *Sustainability in FM* is free but to access the full content of the site registration is required.

Sustainability in Facilities Management (FM) – A useful online tool and resource pool [online] and available at: http://www.bifm.org.uk/bifm/knowledge/sustainabilityinfm [accessed 25 April 2019]

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UCEM's commitment to the sustainability agenda –

beesustainable   **B**UILT • **E**NVIRONMENT • **E**DUCATION

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

A - **B** - **C** - **D** - **E** - F - **G** - **H** - **I** - **J** - K - **L** - **M**
N - **O** - **P** - Q - **R** - **S** - **T** - **U** - **V** - W - X - Y - **Z**

A

American Society of Civil Engineers (ASCE) Civil Engineering database www.asce.org/ [accessed 25 April 2019] provides free access to over 80 thousand abstracts taken from ASCE publications since 1973.

Association of Researchers in Construction Management (ARCOM) brings together all those interested in construction management research. It aims to further the advancement of knowledge in all aspects of management in construction by support education, dissemination and research [online]. Further information available at: www.arcom.ac.uk/index.php [accessed 25 April 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 April 2019]

B [Back to A to Z]

BAILLI Case Law Search (British and Irish Legal Information Institute) [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 25 April 2019]

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

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

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

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

Building talks [online]. Available at: www.buildingtalk.com [accessed 25 April 2019] *Building Talks* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

C [Back to A to Z]

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 April 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 April 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 April 2019]

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

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

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

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

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

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 25 April 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 April 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 April 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 April 2019]

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

Construction News [online]. Available at www.cnplus.co.uk [accessed 25 April 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 April 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 April 2019].

COPAC exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search you can discover the holdings of the UK's national libraries (including the British Library), many University libraries, and specialist libraries [online]. Further information is available at: http://copac.ac.uk/ [accessed 25 April 2019]

COTAC (Conference on Training in Architectural Conservation) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals and home owners [online]. Available at: http://ihbconline.co.uk/cotac2/ [accessed 25 April 2019]

COTAC Digital Bibliography [online]. Available at: www.cotac.org.uk/digital_bib/ [accessed 25 April 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 April 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 April 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 April 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 April 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 April 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 April 2019]

D [Back to A to Z]

The **Design Council** champions great design that improves lives and makes things better [online] and available @ www.designcouncil.org.uk/ [accessed 25 April 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 April 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 April 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 April 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 April 2019]

E [Back to A to Z]

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

G [Back to A to Z]

Great Buildings [Online]. Available at: www.greatbuildings.com [accessed 25 April 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 April 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 April 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, sustainable, 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 April 2019]

The Guardian, Higher Education network [online]. Available at: www.guardian.co.uk/higher-education-network [accessed 25 April 2019]

H [Back to A to Z]

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 April 2019] and **HSE – Health & Safety in the construction industry** [online] is available @ www.hse.gov.uk/construction/ [accessed 25 April 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 April 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 April 2019]

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

I [Back to A to Z]

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 April 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 April 2019]

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

INFA**BODE** 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. INFA**BODE** [online]. Available at: www.infabode.com/dashboard [accessed 25 April 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 April 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 April 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 April 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 April 2019]

J [Back to A to Z]

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 April 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 April 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 April 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 April 2019]. **Note:** The JISC Content portal closed on 1 July 2016, however links are provided to Archives Hub and Digital Resources from this link.

JORUM – After 13 years delivering and sharing content across the higher education, further education and skills sectors the Jorum service and website was retired on 30 September 2016. However, many of the open education resources (OER) that were available in Jorum, access to their **Archive** can be accessed via the JISC website [online]. Available at: www.jisc.ac.uk/website/legacy/jorum [accessed 25 March 2019] where you can also gain access to JISC's full digital resources offer.

L [Back to A to Z]

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 April 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 April 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 April 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 April 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 April 2019]

M [Back to A to Z]

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 April 2019] developed and provided free access to MERLOT at www.merlot.org [accessed 25 April 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 April 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).

N [Back to A to Z]

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 March 2019], NBS homepage is available at: www.thenbs.com/ [accessed 25 April 2019], and NBS Knowledge [online] is available at: www.thenbs.com/knowledge [accessed 25 March 2019]

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

NCE [online]. Available at: www.nce.co.uk [accessed 25 April 2019] is the official website of the **New Civil Engineer**, a weekly magazine published for the ICE.

O [Back to A to Z]

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 April 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 April 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 April 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 April 2019]

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

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

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

P [Back to A to Z]

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 April 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 April 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 April 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 April 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 April 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.ppnonline.co.uk/ [accessed 25 April 2019]

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

R [Back to A to Z]

Regeneration and Renewal – Placemaking Resources incorporating *Regeneration & Renewal* **magazine blog** [online]. Available at: http://regen.net/home/ and www.placemakingresource.com/ [accessed 25 April 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 April 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 April 2019]

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

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

RICS Library services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 25 April 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 April 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 April 2019]

S [Back to A to Z]

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 April 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 April 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 April 2019]

T [Back to A to Z]

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 April 2019]

U [Back to A to Z]

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 April 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 April 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 April 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 sued 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 April 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 April 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 April 2019].

V [Back to A to Z]

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 April 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 April 2019]

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Lucy the librarian, April 2019

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