

# Knowledge Foundations

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## What's in this month's issue

- **Latest UCEM News** incl. The Hardship Fund, open to UCEM students. Also, Amanda Clack inaugurated as UCEM Chairman.
- **Things you need to know this week** – Government allocates £830m for high street recovery. More than 70 locations to share in future high streets funding for housing, transport, leisure, and retail proposals.
- **Latest Research** from JRF, CABE, CBRE, CIOB, RICS, Savills, SI, and more.

Happy Reading!

## Issue 2 – February 2021

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

**"The mission of librarians is to improve society through facilitating knowledge creation in their communities"**

(R. David Lankes)

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.

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

### Supported Online Learning

The readership of *Knowledge Foundations* has expanded (to include Alumni) and is now promoted further afield, with the latest version appearing on the UCEM Website.

[Visit Supported Online Learning](#)

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## UCEM News

### The Hardship Fund, open to UCEM Students

At UCEM we recognise that 2020 has been a hard year for all so as we start 2021 it is important to look forward to more positive beginnings. For example, there is additional financial help at hand for UCEM students, so why not reach out and make the most of this great opportunity?

The Hardship Fund is available to **ALL** students (except Level 3) – so that is Postgraduate (PG) and Undergraduate (UG), apprentices and non-apprentices, UK and international.

The UCEM student application window is now open and will close on **1 MARCH 2021**. This additional UK government money needs to be allocated for and spent by 31 March 2021 and therefore time is of the essence.

#### **Suggested items that the Fund can help with (but is not limited to):**

- New laptops
- Other IT equipment
- Home desk equipment
- Internet/broadband connection
- Utilities bills
- Technology deposit for DSA (UK only) – or similar scheme in other countries
- Unexpected household bills
- Psychologist assessment fees (e.g. dyslexia, autism)

However, please note the Fund cannot be used to pay for course or module fees. Please go to the UCEM website for further information on [Bursaries and Funding](#)

It is **completely confidential** with applications only viewed by the Hardship Fund Committee members.

Details on Virtual Learning Environment (VLE) in the [Welfare & Behaviour](#) section of Student Policies on the Student Hub. (please ensure you have logged in to the VLE for this direct link to work). Note: This specific VLE page includes the application form.

Students might want to complete their coursework first and then apply – that is fine. The fund will not run out or stop! We just have to ensure that we make the most of this additional financial support before the end date of March 2021 passes.

#### **Other UCEM News:**

### **Amanda Clack inaugurated as UCEM Chairman**

- CBRE Head of Strategic Advisory and former RICS President, Amanda Clack, was inaugurated as Chairman on 27 November 2020.

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Amanda has held a variety of high-profile roles within the built environment and takes over the role from John Gellatly who stands down after six years as Chairman.

Amanda joined UCEM's Board of Trustees in 2018 and was named Chair Designate a year ago to manage the transition into her new role. She commented: "It is an honour to become UCEM Chairman. Over the past couple of years, I have deepened my knowledge of UCEM and contributed to its strategic direction on the Board.

"When named Chair Designate, I couldn't have foreseen the challenges of the past nine months but UCEM, as the leading provider of supported online education for the built environment, has demonstrated its strength during this time. Our students have been able to study unhindered by the pandemic. UCEM's resilience is an excellent foundation to build upon as we seek to become the centre of excellence for built environment education.

"I have been inspired by my colleagues on the Board since joining in 2018, and I am tremendously excited to drive the changes to realise UCEM's long-term vision with the support of the Board."

UCEM Principal, Ashley Wheaton, said: "Amanda has proven herself to be an excellent influence on the Board since joining in 2018. It's not surprising this is the case considering her glittering CV which includes being the longest-serving RICS President in the institution's history and her current role supporting clients on their strategic real estate agenda.

"In addition to this, Amanda is a published author and renowned speaker, particularly on the topics of placemaking and diversity and inclusion. Diversity and inclusion are a huge part of our strategy and, with Amanda's help, this can only go from strength to strength.

"Amanda's appointment is fitting for her to lead this wonderful institution into its second century and help us realise our ambition to become the centre of excellence for built environment education."

Outgoing Chairman, John Gellatly, added: "I have been very proud and thoroughly enjoyed my time as UCEM Chair which has included the institution gaining full independence, the successful application to be a University College, a landmark premises move, the opening of our APAC HQ and of course, our centenary year.

"The last six years have been very significant in the history of UCEM, and I am hugely proud of the progress made throughout my time as Chairman, flanked by an inspiring group of Trustees, including our Principal who has led the institution with great ability and energy for the past seven years.

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“I have every faith that Amanda will be a fantastic Chairman and continue to deliver on the progress being made by UCEM as we embark on our secondary century.”

Amanda is also the Chair of the Strategy Board at CBRE, she is member of the firm’s UK Board and support clients on their strategic real estate agenda. She is also a Court Assistant of the Worshipful Company of Chartered Surveyors and a Fellow of the Royal Institution of Chartered Surveyors (RICS), Institution of Civil Engineers (ICE), Association for Project Management (APM), the Institute of Consulting and the Royal Society of Arts (RSA).

Additionally, Amanda is the recipient of Honorary Doctorate of Professional Practice from the University of Wolverhampton and an Honorary Doctorate of Science from the University of Westminster for her outstanding contribution to building safety and diversity and inclusion in the Built Environment. She is a Certified Management and previously, she was a Partner at Ernst & Young (EY) LLP and PricewaterhouseCoopers (PwC) LLP.

[Access the article ‘Amanda Clack inaugurated as UCEM Chairman’ in full.](#)

## **New research calls Government to improve the apprenticeship system to create a better skilled workforce for vital infrastructure projects.**

High skills, high tech construction apprenticeships are needed to boost the skills needed in infrastructure projects to drive the UK’s economic recovery.

This is what is being called for by the authors of a new research report, released on 19 October 2020, entitled *‘Build back better: Improving the apprenticeship system to better support infrastructure’*.

The report, written on behalf of the Construction Industry Council (CIC), UCEM and the Technical Apprenticeship Consortium (TAC), with data used from a CIC survey of employers, recommends that Government works with CIC, employers, and the professional bodies to:

- Recognise the value of technical and higher-level apprenticeships leading to a professional registration.
- Increase the flexibility of the apprenticeship levy.
- Join up and improve the apprenticeship systems across the UK
- Celebrate and promote apprenticeships

Aled Williams, who co-authored the report and is CIC Champion on Higher Education and UCEM’s Director of Research, Innovation and Partnerships, commented:

“The construction industry is integral to the UK’s financial health and can provide the catalyst for an economic recovery accelerated by the COVID-19 pandemic.

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“Apprenticeships are hugely important for employers to train workforces with the appropriate skill set to achieve the ambitious infrastructure projects projected across the nation, however, both businesses and education providers need to have more input in how these are run. The research shows that there is a desire throughout the construction industry to get apprenticeships right and, if Government listens and acts upon the recommendations outlined, there could be huge benefits for the UK.”

CIC Chief Executive, Graham Watts OBE, added: “CIC would like to thank UCEM and everyone else involved for their time and expertise in pulling together this crucial report. Now is the time for Government to work with our sector to showcase and promote the careers across the full spectrum of employers and occupational roles, showing the opportunity that future talent can have in driving forward innovation and technological solutions that will share their environment for the better.”

To read the full report, head to the **[UCEM Latest Publications webpage](#)**.

**[Access further information and the article ‘New research calls Government to improve the apprenticeship system to create a better skilled workforce for vital infrastructure projects’, in full.](#)**

## **New research calls for unified approach to UK real estate data standards**

UK real estate data must be allowed to flow freely beyond the existing silos in order for the industry to flourish and standards have a key role to play in facilitating this.

This is one of the key findings from **[the research report: ‘The role of standards in enabling a data driven UK real estate market’](#)**, authored by Dan Hughes and released on 30<sup>th</sup> September 2020 on behalf of the Real Estate Data (RED) Foundation.

The research explores the role of standards in ensuring an effective flow of data across the whole built environment, to set the scene for a sector-wide discussion on what is available, what is needed and the future role of people.

Among the additional insights included in the report, funded by **[UCEM’s Harold Samuel Research Prize](#)** are:

- Real estate has a well-established and robust set of standards
- Existing standards need to be more valued and more easily discoverable.
- The value and cost of standards and data needs to be recognised fairly.
- It will become increasingly difficult for professionals to have clarity regarding both data and the standards that influence it.

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“The role that standards have to play in enabling a data-driven real industry is substantial, but it is also very complex. There are a number of challenges that must be faced at a sector level and whilst the way forward may not always be clear, it is not something that should be ignored.”

Amanda Clack, Executive Director and Head of Strategic Advisory at CBRE and UCEM’s Chair Designate added: “This comprehensive and well written research is clear that as we see decisions increasingly based on data from the full lifecycle, and that whilst today (see publication date) have well-established standards, as we see asset types increasingly blur, new factors such as productivity, sustainability and well-being will rise up the agenda and be even more data reliant.

“The next steps are clear: improve discoverability, increase connectivity, understand value and clarify the role of people. Our role now is to work together to put these next steps into action.”

To read the report, head to [the research webpage](#).

[Access further information and the article ‘New research calls for unified approach to UK real estate data standards’, in full.](#)

## **UCEM reasserts its commitment to organisational excellence with Advance HE membership**

- UCEM has renewed its Advance HE membership for 2020-21, ensuring continued access to vital resources and supporting valuable partnership across the Higher Education sector.



© Advance HE 2020

The membership supports UCEM’s vision ‘to be the Centre of Excellence for Built Environment education’. In particular, the membership relates to the UCEM’s strategy to have a positive impact on Higher Education through education policy lobbying, collaborative relationships and widening participations efforts.

UCEM Principal, Ashley Wheaton, commented: “Advance HE is a fantastic organisation with admirable aims to make Higher Education better for all. Advance HE’s member institution list is hugely impressive and demonstrates the calibre of organisations it brings together for the good of the sector.

“Membership affords my colleagues and I opportunities to attend events and access resources which will greatly benefits us. I look

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forward to continuing to be an active participant of Advance HE on behalf of UCEM.”

Membership provides UCEM with many benefits including: access to Charters transforming and supporting gender and race equality in HE and research; toolkits to support good governance; consultancy and enhancement services, and reports, publications and resources available to staff across the institution.”

[Access the article ‘UCEM reasserts its commitment to organisational excellence with Advance HE membership’ in full.](#)

[Access further information on Advance HE.](#)

[For more on UCEM’s ambitions, take a look at the institution’s Vision and Strategy brochure.](#)

## **UCEM continues Building People support with £50,000 donation**

- UCEM has pledged support of £50,000 to enable Building People to work towards its aim of a more diverse and better-connected Built Environment. Building People was founded in 2017 and secured initial donations of £50,000 from UCEM. The Chartered Surveyors Training Trust (CSTT) and The Chartered Surveyors Company (TCSC) in 2018. Both UCEM and TCSC have committed to giving a further £50,000 in 2020.



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**Phase one** of the Building People launch has seen the aggregation of 1,000 + organisations and initiatives that provide work, learning or support opportunities across the Built Environment, as well as the bringing together of relevant information and resources from across the surveying profession.

**Phase two** sees the development of the connecting capabilities of the platform, as Building People provides technology to connect people to people (mentors / advice and guidance); a directory of learning and training opportunities and an events directory; plus work vacancies (from work experience, to apprenticeships, internships, placements and jobs). This model will be white-labelled so that other organisations can benefit from the aggregating and connecting technology at a fraction of the price they would have to pay for independent development, creating a ‘network of networks’ using the same technology and all enabled by Building People. Building People is also bringing together disparate providers that work with diverse audiences through the creation of communities, focused initially on young people, women, LGBTQ+, BAME, ex-military, and ex-offenders.



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Ashley Wheaton, UCEM Principal, explains why UCEM is keen to supporting Building People: “UCEM is proud to be founding partner and continued support of Building People. Connecting the multitude of opportunities across the Built Environment is key to widening partnership in industry. If people from all backgrounds can more easily find work, learning and/or support that is available from existing providers, then our industry will become more diverse and more innovative. It’s win-win all round.”

Rebecca Lovelace, Founder of Building People share the impact that such support has had: “The visionary leadership and fully collaborative approach of our three founding partners has made the world of difference to Building People. We have a simple aim – to create connections across the Built Environment to address the industry challenges of skills, diversity and social value – and it has been the investment, passion and commitment from UCEM, the CSTT and TCSC that has enabled us to move from vision to reality, and from planning to delivery. We have over 60 industry supporters but Building People would have remained a bright idea without the significant input from these three organisations that have all brought a holistic & inclusive approach to enabling change.”

[Access the article ‘UCEM continues Building People support with £50,000 donation’, in full.](#)

[Find out more about Building People.](#)

Further information on Building People can also be accessed via the **Careers** Section later in this issue of **Knowledge Foundations**.

## **COVID-19: University College of Estate Management (UCEM) response to COVID-19**

As a responsible employer and educator, UCEM’s commitment is to protect the health of all students, staff, clients and suppliers by adhering strictly to advice offered by Public Health England, The World Health Organisation, Office for Students, local and central government, whilst remaining committed to maintaining our usual excellent standard of student experience.

Please find below the steps we’ve taken to adhere to current and ongoing advice. As the situation is ever-changing, we fully review the guidelines and our actions daily and will quickly adapt if necessary (**Note** the publication date of this article).

- All staff who are able to work from home are doing so. We have been anticipating this situation and had prepared for it full. We have an advanced IT infrastructure in place to enable remote working, so we continue to operate as usual.
- As an online pedagogical institution, we are experts at online teaching and our deliver model will continue as normal



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- The small number of staff remaining in Horizons head Office have been allocated seating at above the recommended distance away from each other.
- We are operating a policy of no external meetings and no visitors to Horizons Head Office
- All managers and department heads have been briefed with respect to our self-confinement policy and our treatment of any staff member displaying symptoms that may be linked to COVID-19
- All staff are continually reminded of the importance of following the 20-second guideline for handwashing.

If you have any further questions, please contact:

- Student enquiries – Student Central on our VLE
- Employer enquiries – [businessdevelopment@ucem.ac.uk](mailto:businessdevelopment@ucem.ac.uk)
- Other enquiries – [reception@ucem.ac.uk](mailto:reception@ucem.ac.uk) , Tel: +44(0)118 467 2100

**Our sincere thoughts are with those affected by COVID-19 and its impact around the world.**

Further information and the latest developments can be found via the [UCEM Website](#), & don't forget that the UCEM [e-Library](#) can be accessed 24/7 (via the VLE-Virtual Learning Environment) with a wealth of valuable resources to help 😊.

**14<sup>th</sup> edition of Parry's Tables published to mark UCEM's centenary year.**

**[Access and read further information about the new edition of Parry's valuation and Investment Tables.](#)**

Copies from the book – both online and in print – are available from [Routledge's website](#).

**Other UCEM News** – Get a helping hand with UCEM's Postgraduate Scholarship Scheme; Built Environment Innovation celebrated at UCEM's first online Property Awards; UCEM's continuing commitment to sustainability recognised with NUS Responsible Futures reaccreditation, and more.

**[Keep abreast of the latest UCEM News and events](#)** – and read our blog to keep updated on Building Environment industry insights, student case studies, and thoughts from UCEM Principal: Ashley Wheaton

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## Other News

### **Things you need to know this week: Government allocates £830m for high street recovery**

- More than 70 locations to share in future high streets funding for housing, transport, leisure and retail proposals.

More than 70 locations across England are sharing in £830 million support from the government's future high streets fund to help drive regeneration. Proposals gaining government backing include the delivery of 186 homes, road safety improvements and provision of space for a market in Birkenhead, which is awarded £24.6 million, and the renovation of Worcester's Scala Theatre and Corn Exchange to create housing, which has secured £17.9 million. Swindon gains £25 million to modernise its town centre with measures including a new public transport hub. The fund, which was launched in December 2018, has made full funding allocations to 15 locations, with 57 plans receiving provisional offers.

#### **Other developments include –**

- West Midlands Combined Authority (WMCA) has agreed £780,000 funding to promote the ongoing regeneration of the former MG Rover car plant in Longbridge, Birmingham.
- Property investor Federated Hermes has launched a new residential brand, called Hestia.
- At the end of last year (2020), asset management business Aviva Investors completed a £37.5 million placement with social landlord Wales and West Housing.
- Affordbale housing provider Vivid and Ikea and Swanska-owned modular home provider BoKlok have formed a joint venture to deliver more than 1,000 homes over five years.
- Developer Countryside and Sigma have signed an agreement to deliver up to 5,000 Private Rental Sector (PRS) homes over the next three years.
- East London based housing association Poplar HARCA has appointed housebuilder Hill as joint venture partner for the Tevlot Estate regeneration in Tower Hamlets.

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(Please note that you will need to register to access these stories in full, although you can 'Register free for limited access.' Visit the website, scroll to the base of the homepage, and note access route within 'Subscription and Registration').

[Read the full 'Need to Know: Government allocates £830, for high street recovery' article](#)

## **Case Study: Leveraging data for faster site appraisal**

- Transport for London turned to technology to help it assess the housing potential of more than 2,000 sites.

Transport for London (TfL) has been driving redevelopment of land for housing in the capital through a number of delivery routes, including its property partnership framework, the London development panel 2 and the Greater London Authority's small sites builders programme. Its housing programme is aiming to deliver more than 10,000 homes across 300 sites, which vary significantly in scale, potential, previous use and characteristics. The range from the Crossrail construction site on the Limmo Peninsula, in Canning Town, which has the potential to accommodate a neighbourhood of around 1,500 homes to a 0.7 hectare former car park at Blackhorse Road station, which is set to deliver 350 homes with 50 per cent affordable housing.

In an effort to streamline the process of prioritising a large quantity of sites for its development pipeline, TfL looked to digital innovation. It brought together a number of partners, tools and approaches in a pilot study that has given it the capability to filter sites in its land portfolio to help understand viability and value, identifying the best potential developments opportunities.

### **Challenges**

TfL has long been a significant landowner across the capital, holding more than 2,300 hectares in total. The potential for use of sites for residential development is, however, severely constrained as much of the land supports operational uses, being home to the transport system's tracks, stations, equipment or depots. A report by the London Assembly's housing committee, published in 2017, also noted that while TfL is a major landowner, many of its sites are relatively small in size.

### **Solution**

The pilot study builds on data modelling work already being done by TfL and draws on the expertise of a number of companies, who Lemaitre describes as "partners in value". Multi-disciplinary consultant Ramboll came to the project with its SiteSolve tool, a platform for modelling massing options for development. Data science company Urban Intelligence brought expertise in gathering and standardising the site data and applied its software, facilitating consistent and comparative assessment of the many different

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sites. Cost consultant Turner & Townsend brought essential cost analysis, by creating a cloud-based parametric model for the pilot study.

The model provided a greater level of detail than a blanket cost per square metre rate, which is crucial for sites with abnormalities, generating an estimate every 50 milliseconds for more than 5,000,000 massing options.

The study drew on data on the current residential property market from specialist Hometrack. Considerations were also given to future uplift potential through socio-economic specialist Hatch, which analysed a large body of data relating to historical frequency improvements and how this influenced house price changes around stations. This was supplemented with a qualitative assessment of area change by regeneration consultant PRD. This provided an understanding of how improved rail connectivity changed the local attributes of place, including considerations of commercial and residential vitality, as well as the local amenity offer.

**[Read the full 'Leveraging data for faster site appraisal' case study](#)**

(Please note that you will need to register to access these stories in full, although you can 'Register free for limited access.' Visit the website, scroll to the base of the homepage, and note access route within 'Subscription and Registration').

**Analysis: Growing the offsite housing sector**

- A number of public and private sector players are adopting modern methods of construction in housebuilding, but market challenges are still being addressed, finds the authors of this article.

Oxford City Council's housing company, Oxford City Housing this month (December 2020) launched a search for development contractors to help it deliver factory built, low carbon homes.

Its plans to establish a modular construction framework for residential development, and is ultimately aiming to deliver well over 2,000 homes for social rent, shared ownership and other intermediate tenures in the coming decade.

In the same month retirement housebuilder McCarthy Stone homes will be constructed using light gauge steel panelised structural frame in the 2021 financial year, and the housebuilder expects around a quarter of its overall output to be built in this way within five years.

These are two of the latest deals marking the progress of modern methods of construction (MMC) in UK housebuilding, but the sector is enjoying mixed fortunes. Alongside the positive moves there has been less welcome news, with a number of

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manufacturers posting negative financial results or falling into administration over the past year.

MMC has high-level backing, as McCarthy Stone chief executive John Tonkiss said when explaining the thinking behind his company's deal: "The government has prioritised off-site manufacturing in recognition that we need different solutions to the housing crisis. We are responding to this with a serious, long-term commitment that will be a win-win for investors, policy makers and, above all our customers."

The government's support for MMC was reiterated in a speech by housing minister Christopher Pincher earlier this month (see publication date). "We certainly believe in government that MMC could be revolutionary for the industry in terms of improved productivity, build speed and economies of scale," he said. Specialists like developer and contractor Tide Construction, which owns manufacturers Vision Modular, have already carried out a string of major residential projects and companies including developer Berkeley Group's own Berkeley Modular, Legal & General's L&G Modular Homes and developer Urban Splash are all growing their own manufacturing and product capabilities.

But in looking to establish a foothold in the emergin market, some players have recorded significant financial losses or fallen into administration. "There is still a lot of investment coming into the market, but mobilisation costs and people often underestimate the time it takes to get up and operational," says Darren Richards, managing director of offsite consultancy Cogent Consulting. Richard says a number of factors could help the sector, adding, "We are note seeing collaboration, so companies are constantly reinveting the wheel. It would be healthier if the industry would share its best practice and its problems."

A report entitled, **Building Homes, Build Jobs, Build Innovation: A blueprint for a housing led industrial strategy**, published in September 2020 raises this and other challenges, such as a lack of alignment of planners and the planning system to the accelerated delivery of modular housing. The report's authors, Mark Farmer, chief executive of housing and construction consultant Cost Consultancy – who wrote a government backed report on UK construction's labour model four years ago – and Mike De'Ath, partner at architect HTA Design, recognise that some manufacturers have faced challenges. They write, "This is a natural evolution of the market, but if we are to responsibly diversify capacity, this process needs speeding up with the right safeguards in place."

As a result, they have called for government to support a major programme to build manufactured homes, which they argue would boost jobs and innovation "and underpin investment in manufacturing". It remains to be seen whether this call will resonate with the government, but the housing minister said in his

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speech that it is, “committed to tackling the barriers to increasing use of MMC.”

**Further information and read the article, ‘Analysis: Growing the offsite housing sector’ in full.**

(Please note that you will need to register to access these stories in full, although you can ‘Register free for limited access.’ Visit the website, scroll to the base of the homepage, and note access route within ‘Subscription and Registration’).

### **Government Spending Review: Key points**

**- Chancellor Rishi Sunak set out what the UK government will spend on health, education, transport, and other public services in 2021.**

In a statement in Parliament, he also briefed MPs about the state of the UK economy and the latest forecasts for the UK’s public finances, which have been battered by the Covid pandemic.

Here are the main points –

- Millions of public sector workers will see their pay frozen next year
- A million NHS workers and those earning less than £24,000 will still get an increase
- The UK economy is expected to shrink by 11.5% this year (2020)
- Unemployment is expected to reach 7.5% next spring (2021), with 2.6m people out of work
- Overseas aid budget is to be cut by about £5bn
- A new £4bn “levelling up” fund will pay for upgrading local infrastructure.

**Access further information and the BBC News, UK Politics article, ‘Spending Review: Key points from Rishi Sunak’s statement’, in full.**

### **Government launches £7.1bn National Homebuilding fund**

- The government will create a £7.1bn National Homebuilding Fund to unlock the development of 860,000 new homes.

The news came as Chancellor Rishi Sunak unveiled his spending review for 2021/22, in which he warned of the largest fall in output in 300 years – a drop of 11.3% - as a result of the Covid-19 pandemic. The economy is set to grow by 5.5% next year and 6.6% in 2022 as restrictions ease.

The new fund sets aside money for land remediation, investment in infrastructure help to deliver the brownfield fund, and loan support for housebuilders across the country.

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It was one of a number of spending pledges from the Chancellor to help kickstart the post-Covid economy, which also included a £4bn 'levelling up' fund which will allow local authorities across England to compete for investment in a range of schemes up to £20m to improve the local area.

And the government renewed its commitment to build or rebuild 500 schools across the UK over the next five years, as well as to build 40 new hospitals over the next 10 years.

Meanwhile the government has published its delayed **[National Infrastructure Strategy](#)**, entitled 'Fairer, faster, greener', which aims to deliver improvements to UK infrastructure while putting the UK on the path to net zero emissions by 2050.

Within the document, the government pledged to accelerate and improve delivery of projects through reforms to the planning system, as well as improvements to the way projects are procured, and the greater use of construction technology.

**[Access further information and the \*Construction Manager\* article, 'Government launches £7.1bn National Homebuilding fund', in full.](#)**

## **The Future Homes Standard: changes to Part L and Part F of the Building Regulations for new dwellings**

The government hosted a public consultation from 1 October 2019 to 7 February 2020 on proposed changes to the Building Regulations. **[This is the government response to that consultation on proposed changes to the Building Regulations.](#)**

This was the first stage of a 2-part consultation which proposed an ambitious uplift in the energy efficiency of new homes through changes to Part L (Conservation of fuel and power) of the Building Regulations. **[The second stage has now been published as the Future Buildings Standard.](#)**

## **Coronavirus – latest developments [January 2020]**

**LIVE News Latest – PM to give update as UK deaths exceed. UK government Covid briefing**

### **Summary:**

- Boris Johnson will hold a news conference at 1700, along with Chief Medical Officer Chris Whitty and NHS Chief Simon Stevens (see publication date),
- The UK death toll from coronavirus has passed 100,000, according to government figures,
- The EU warns it will tighten exports of vaccines produced in the bloc, amid a row with AstraZeneca over a cut in planned supplies,



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- The UK is confident it will receive enough doses of coronavirus vaccines to meet its target, the vaccine minister has said
- Ministers are expected to approve a plan to require UK citizens to quarantine in a hotel if they arrive in England from high risk countries,
- They are meeting tonight to discuss the plan – a decision may not be announced until Wednesday (27/01/2021),
- Latin America's richest man Carlos Slim has tested positive for Covid-19

**[Access the BBC News, Latest LIVE Coronavirus news feed](#)****Coronavirus: Why some people want to keep working from home**

- When lockdown started in March 2020, workers across the UK packed up their office equipment and set up workstations in their own homes. Bedrooms, kitchen counter-tops and dining tables became the new way of working for millions of people.

But now it's time to return to those communal workplaces, research from Eskenzi suggests that 91% of the UK's office workers would like work from home at least part of the time. So why are so many office staff keen to keep working from home?

Some of the reasons and case studies provided in this article and include -

- 'It's like getting a pay rise' due to making savings on the commute
- 'We're spending more time together as a family', and
- 'I've seen an improvement in my mental health'

**[Access the BBC News article entitled, 'Coronavirus: Why some people want to keep working from home', in full.](#)****Related Links:****Coronavirus: How to be happier while working from home**

This article from the Royal Institute of British Architects (RIBA) explains what we can do to keep us happier at home and include –

• Let in the light; • Shut out the noise; • Declutter; • Stand up; • Use plants; • and Social contact ... and not just online.

**[Access the BBC News article entitled, 'Coronavirus: How to be happier while working from home', in full.](#)****[Access BBC News > Coronavirus > Coronavirus pandemic > Your Coronavirus Stories and related articles in full.](#)****[Access the BBC News > World article entitled, 'COVID-19 pandemic: Tracking the global coronavirus outbreak' by The Visual and Data Journalism Team in full.](#)**

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**Access GOV.UK (2020) 'Coronavirus (COVID-19): what you need to know' [online]. Available at: [www.GOV.UK](http://www.GOV.UK)**

**More about coronavirus:**

- A SIMPLE GUIDE: [What are the symptoms?](#)
- NEW RESTRICTIONS: [What are they?](#)
- LOOK-UP TOOL: [Check cases in your area](#)
- MAPS AND CHARTS: [Visual guide to the outbreak](#)

**The evolution of building surveying education during COVID-19**

- In January and February 2020, as the pandemic was starting to gain momentum and spreading around the globe, universities in the UK were beginning to consider how to react. As a sector, UK higher education is relatively familiar with web-based methods of communication, teaching and learning.

In fact, the University College of Estate Management (formerly the College of Estate Management) and the traditional home of RICS correspondence courses, operates their business totally online.

A lot of universities operate a Virtual Learning Environment (VLE) which allows them to communicate with their students and provides the opportunity to interact with them in terms of online courses and assessments, and as a depository for learning materials.

This is allowing the students to revisit the materials to embed or reinforce their learning or to catch up if a session was missed. Common VLE's include Blackboard, WebCT, and Moodle. Their functionality and features are all relatively similar.

Although the physical libraries have closed, universities operate electronic libraries which offer access to a large number of electronic databases, and a growing number of books and journals, ensuring that the students and staff, can continue to access the majority of relevant information for their studies and research.

**Further information and access to the article 'The evolution of building surveying education during COVID-19', in full.**

**Access further information about UCEM's Supported Online Learning > e-Library.**

**The Pandemic Has Taken Cars Off Urban Streets. Will It Last?**

- With a sharp drop in auto traffic due to Coronavirus, cities around the globe have closed streets to cars and expanded pedestrian thoroughfares and bikes lanes.

But as life edges back to normal (see publication date), will these initiatives survive, especially if virus-wary citizens shun mass transit?

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[Access this article entitled, 'The Pandemic Has Taken Cars Off Urban Streets. Will It Last' in full.](#)

### **Will COVID-19 accelerate construction's digital transformation?**

- With many industry professionals forced to work remotely, is now the perfect time for construction to get up to speed with all things BIM and digital? *Construction Manager* magazine finds out if the coronavirus will change the way we work forever.

David Philp – Global BIM/MIC consultancy director, AECOM says, **"It's an opportunity to rethink how we can use technology and innovate."** (Philp 2020)

The coronavirus pandemic is forcing us to strive for more innovative and rapid solutions. From increased home working needs, maximising performance of our healthcare estates and ultimately how we can recover from the looming economic challenges, we need to usher in new ways of working.

This crisis will be an opportunity for us to rethink construction priorities, how we can better use technology and innovate in the use of joined-up data to support immediate societal needs and the creation of a more resilient built environment.

Mark Boyle – Global design direct, Robert Bird says, **'Our digital processes lend themselves to remote working.'** (Boyle 2020), and

Gary Fannon – Technology director, Turner and Townsend says, **'Early digital adopters will be reaping the rewards.'** (Fannon 2020)

T&T's technology team have all been set up to work from home for some time and the early adopters will reap the rewards from the coronavirus lockdown. Design teams are able to continue working – creating a fully designed digital model that can be constructed to an excellent quality standard when work is able to begin on site. There are also security questions about home working – we need to educate people and show them how to make home routers more secure. But overall, the enforced lockdown could show the industry how we can use digital technology to be more efficient and productive.

Andrew Gamblen – Digital manager, Willmott Dixon says, **'People will become more comfortable collaborating remotely.'** (Gamblen 2020)

The effect of Covid-19 and social distancing is going to have a long-lasting effect on both the construction sector and the UK as a whole. There has been a huge increase in the use of technology and software that allows individuals and teams to communicate and collaborate remotely.

While this technology has been around for a while, and because we are in a position where we have to use it to keep working,

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people are starting to become a lot more comfortable with it and this is building up simple routines that will have a lasting effect.

Richard Saxon – CBE Chairman of JCT, client adviser at Deploi BIM Strategies says, ‘ **"Wartime scenarios" will push the digital agenda.**’ (Saxon 2020)

The Covid-19 crisis is looking very like a war scenario. Organisations are sending out messages saying they will play their part through staff working from home. It's Keep Calm and Carry on again.

Technology has always developed rapidly in wartime. The Second World War saw the birth of computing radar, jet aircraft and nuclear power. Now we have a design and construction industry in lockdown, starting to rely on tools which only a few firms have used to far.

- Now cloud-based teamwork applications allow staff to work from home or on the move with full access to their firm's common data environment
- The pressure to roll out superfast broadband and 5G will be immense
- Social media apps allow for virtual co-working
- Online meetings are well supported now and soon we will use Virtual Site Visit technology as normal
- Site work will be aided by augmented reality headsets and BIM caves

By the time a vaccine is available (see publication date), a year or more of forced advance in technology use is likely to have passed.

Things will not go back to where they were before: productivity will have improved; flexible working will have become normal; whole life thinking will have advanced.

**[Read the \*Construction Manager\* article ‘Will Covid-19 accelerate construction's digital transformation’, in full.](#)**

**Related links:****What will the post-pandemic office look like?**

- Businesses have been scrambling to adapt their offices more Covid-friendly over the summer. But with remote working seemingly here to stay, anecdotal evidence suggests that firms are looking to cut office space by up to 40%. How is the workplace having to evolve to remain relevant?

**[Read the \*Construction Manager\* article, ‘What will the post-pandemic office look like?’ in full.](#)**

**Coronavirus to weigh on Q1 construction activity, despite recent pick-up**

International construction activity picked-up in the last quarter of 2019, according to the latest findings of RICS' series of international

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Infrastructure and Construction Surveys. However, rising costs remain a drag on the sector, and the impact of the Coronavirus could hamper short-term output.

**[Read the RICS article ‘Coronavirus to weigh on Q1 construction activity, despite recent pick up’, in full.](#)**

**Free content related to Coronavirus, the management of epidemics and the wider impact on society**

- Emerald Publishing, one of the UCEM e-Library subscription services, have brought together a number of research resources related to the Coronavirus group of viruses, and epidemics more broadly.

Emerald collated research and the management of epidemics and made it freely available to assist practitioners and researchers who are working to tackle the current situation and likely consequences. Whilst these materials do not only relate to the current clinical challenges of Novel Coronavirus, they may provide relevant context to how the world reacted to other previous Coronavirus outbreaks (notably SARS) and epidemics.

**[Access Emerald Publishing’s ‘Coronavirus, the management of epidemics and the wider impact on society’](#)**

**[Shoosmiths UK law firm Insights and Articles](#)**

- Read the latest insights, articles, and commentary from Shoosmiths UK law firm or explore their content library, or listen to the latest **Real Estate Podcasts** that include:

**[What 2020 has taught us about digitisation and data](#)**

- The unexpected happened in 2020. The world shut down. Physical human interaction stopped and we had to go digital.

**[The changing development agenda – North West](#)**

- The north west sits high on the UK regional table for foreign investment, with numerous significant developments strengthening the region’s reputation as being one of the UK’s most progressive markets.

**[Councils step up regeneration](#)**

- Shoosmiths and *Property Week* assembled a panel of experts from across the real estate industry to discuss the growing role local authorities are playing in fostering regeneration in partnership with private sector partners.

**The future of build-to-rent podcast series**

**[Podcast – Government policy BTR \(Build to Rent\)](#)** - - Here is the latest podcast from Shoosmiths’ Living team on the future of the BTR market.

**[Podcast series #1 – The future of BTR \(Build to Rent\)](#)**

Issues discussed in this podcast include:

- Performance of the sector

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- Rent collection rates
- Challenges of lockdown restrictions
- How buildings and amenity space will change as a result of the pandemic
- Where the market is going

**Podcast series #2 – The future of BTR (Build to Rent)**

Issues discussed in this podcast include:

- Ongoing attractiveness of the sector
- Top three things to look for in a BTR scheme
- Future challenges for BTR
- The role of technology
- BTR housing

**Podcast series #3 – The future of BTR (Build-to-Rent)**

In this podcast, the last in this series, issues discussed include:

- Planning reforms
- Permitted development rights
- Rise of residential in the high street
- Fire Safety
- Rent controls / regulations

**Cambridge University: All lectures to be online-only until summer of 2021**

- There will be no face-to-face lectures at the University of Cambridge over the course of the next academic year due to coronavirus, it has been announced.

However, lectures will be available to students online and “it may be possible to host smaller teaching groups in person” if they meet social distancing requirements, the university said.

University campuses have been closed this term (see publication date) by the Covid-19 outbreak. Cambridge will review the decision if advice on social distancing changes.

All teaching at the university was moved online in March 2020, while exams are being carried out virtually.

- **Students ‘must be warned if courses taught online’**
- **Online students would still face full tuition fees**
- **Students ‘being ignored’ over fee-refund claim**

It follows a similar move by the University of Manchester, which said its lectures would be online-only for the next term.

The university watchdog said students applying for university places in England must be told with “absolute clarity” how courses will be taught - before they make choices for the autumn. Universities can charge full fees even if courses are taught online. But Nicola Dandridge of the Office for Students warned against

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misleading promises about a “campus experience” if courses are to be taught online.

[Read the article, ‘Cambridge University: All lectures to be online-only until summer of 2021’ in full and related item via the BBC website](#)

**Related topics / subject terms / keywords:**

**CORONAVIRUS**

**SOCIAL DISTANCING**

**UNIVERSITY  
OF CAMBRIDGE**

## **Learning and teaching reimagined: a new dawn for higher education?**

- Exploring the 2020 experience as well as the changing aspirations of the nature and shape of learning and teaching for the future.

### **Summary**

This report is the result of a five-month higher education initiative to understand the response to COVID-19 and explore the future of digital learning and teaching.

It involved high levels of engagement with more than 1,000 sector leaders, staff and students through webinars, roundtables, consultations, focus groups, surveys, interviews and case studies.

In this report the experience of 2020 and changing aspirations of the nature and shape of learning and teaching for the next academic year, 2021/22, and 2030, are explored.

### **Recommendations**

Based on this research the following recommendations for universities, sector agencies and government are made:

1. Universities to use their strategic and structural planning processes to affect the digital transformation of learning and teaching, ensuring that sponsorship is provided by governing bodies and executive teams
2. Universities to review their strategic investment in digital learning and teaching
3. Universities to make investment plans to mitigate the heightened cyber security risks that arise from greater dependence on digital technologies
4. Universities to think radically about the scale and scope of their learning and teaching activities, prioritising blended learning approaches wherever possible
5. Universities to accelerate the adoption of blended learning, with close involvement of students in all aspects from design to delivery



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6. Universities to ensure inclusivity and accessibility are integral considerations in curriculum redesign
7. Universities to ensure their professional development plans include digital training, peer support mechanisms and reward and recognition incentives to encourage upskilling
8. Universities and sector organisations to establish research to remain in step with the changing digital preferences and expectations of prospective in higher education students
9. Universities, government and funders to provide additional funding or means to reduce digital poverty as a barrier to students accessing higher education.

Maguire D, Dale L, and Pauli M (2020) *Learning and teaching reimagined: a new dawn for higher education?* Bristol: JISC

## Construction prepares for Brexit with new working group

- Construction is readying itself for the UK's exit from the European Union at the end of the year (2020), with the creation of a dedicated working group on the issue.

The Construction Leadership Council (CLC) has set up the Brexit Working Group in a bid to produce and signpost business guidance and information to help the construction industry get ready and maintain business continuity at the end of the transition period. The group will also aim to identify critical issues facing the construction industry in the event of no agreement that the government should address before the transition period expires, as well as championing opportunities for the construction sector in the numerous ongoing trade deal negotiations with the EU and the rest of the world.

The work of the group will be split into four workstreams covering:

- **Movement of People:** preparing for the new immigration rules, accessing alternative labour supply and reciprocal arrangements on skills and qualifications in new trade deals
- **Movement of Goods and Materials:** preparing for the new customs regime, guidance on WTO rules in the event of no agreement with the EU and alternative sourcing opportunities in the rest of the world and the domestic market
- **Standards and Alignment:** guidance on the Construction Products Regulation, EU notified bodies, CE marking, UK designated standards, and UKCA marking
- **Data Adequacy:** business awareness of the potential impact and mitigating actions on data flow in the event of no agreement with the EU and no decision by the European Commission on the UK's 'data adequacy'.

In addition, the existing workstreams of the CLC will also take on Brexit – readiness related work, helping to produce guidance on matters including procurement and contracts.

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[Read the Construction Manager article entitled, 'Construction prepares for Brexit with new working group' in full.](#)

## **New guidance from CIRIA - Construction Industry Research and Information Association**

CIRIA is pleased to announce ([January 2020](#)) new practice guidance that include:

[Code of practice for property flood resilience \(C790\)](#) - This new guidance provides confidence on the use of the standards within the code of practice that provides a benchmark for those procuring and delivering property flood resilience (PFR).

[Retrofitting ground gas protection measure \(C795\)](#) - This guide dispels the myth of demolition being the only option for mitigating ground gas ingress into existing UK properties.

[Grouted anchors and soil nails \(C794\)](#) – This guide addresses intrusive inspections beneath the anchor head, typically the critical section in respect of corrosion, outlines specialist techniques such as destructive de-stress and describes options for remediation and repair.

### ***The Management of advanced numerical modelling in geotechnical modelling (C791)***

Numerical modelling is commonly carried out in engineering. Producing a numerical model is complex and if not used properly can be dangerous. However, if use with skill and care there can be enormous benefits. This guide provides a framework for those who oversee the process, provide the information needed for this task and use the results of the numerical modelling.

[Read further information and gain access to \*Management of advanced numerical modelling in geotechnical modelling\*, in full.](#)

### ***Methodology for quantifying the benefits of offsite construction (C792)***

This new guidance proposes a framework for comparing construction approaches, making it possible to keep consistent records across projects and identify all the possible benefits available. This guide also highlights the challenges that can be expected when assessing the performance of construction projects and developing robust benchmarks for comparison.

[Read further information and gain free access to the full published document, entitled, 'Methodology for quantifying the benefits of offsite construction'](#)

## **Grenfell Tower Inquiry – latest developments**

- The Grenfell Tower Inquiry was created to examine the circumstances leading up to and surrounding the fire at Grenfell Tower on the night of 14 June 2017.

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**Phase 2 hearings** – Hearings have been suspended in light of recent developments, and the Inquiry aims to resume with remote hearings on 8 February.

**COVID-19 information** – The Inquiry takes health and safety guidance extremely seriously. Following a full risk assessment, it has put in place arrangements to ensure social distancing is maintained in all parts of its venue. A strict limit on numbers is essential for these arrangements to be effective.

**Drop-in sessions** – In line with current public health guidance on COVID-19, the Inquiry has postponed its monthly drop-in sessions until further notice.

**Phase 1 Report** – The Inquiry has published its report on Phase 1 of its investigations.

**Latest update from the Inquiry [January 2021]** - The Inquiry has published an update on the resumption of hearings. This update provides a digest of:

- **Hearings update** - Hearings are temporarily suspended due to Coronavirus,
- **December 2020 Newsletter** – The Inquiry has published an update on its work.

[Read further information from the 'Grenfell Tower Inquiry' website.](#)

## **Skills Agenda: Concerns for Skills Shortages in the 21<sup>st</sup> 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 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 through Australia.



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[Read the full research report 'Concerns for Skills Shortages in the 21<sup>st</sup> Century.](#)

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## Tomorrow's Engineers



© EngineeringUK (2021)

Tomorrow's Engineers brings together resources and evidence to support the engineering community in getting the most out of their engagement activity. It includes information and guidance on a range of topics curated from across the STEM community. Developed by EngineeringUK, the new website is for anyone who funds or delivers engineering engagement activities and is designed to help improve the engineering community's collective impact.

[Access the new Tomorrow's Engineers website](#)

## Women in construction: building a career in a challenging environment

12 case studies of women working in the construction industry and their experiences.

[Access Women in construction: building a career in a challenging environment](#)

## RICS Market surveys – leading indicators in the real estate industry

Market surveys from the Royal Institution of Chartered Surveyors (RICS) include:

- [UK Residential Market Survey](#) – used by government and key institutions, the Resi. Market Survey is a key indicator of conditions in UK residential sales and lettings.
- [RICS/RAU Rural Land Market Survey & Land Prices](#) – The RICS/RAU Rural Land Market Survey is the leading survey on demand, supply and prices in the farmland market.
- [UK Construction and Infrastructure Survey](#) – The leading sentiment indicator of the UK construction and infrastructure markets.
- [Hong Kong Residential Market Survey](#) – The Hong Kong Residential Market Survey is a leading sentiment indicator of conditions in the Hong Kong residential sales and lettings markets.
- [Global Commercial Property Monitor](#) – RICS global commercial property monitors are leading indicators of conditions in commercial property occupier and investor markets around the world.

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- **UK Commercial Market Survey** – A leading indicator of developments in the UK commercial property occupier and investor markets.

## **RICS – The Future of Surveying**

- We know the challenges facing the built environment and the surveying profession – now it's time to act. We know the challenges facing the built environment and the surveying profession – now it's time to tackle them.

For over 150 years, RICS has led our profession through change, enabling our members to take advantage of the opportunities and manage the risks it presents. This change is now happening faster than ever, requiring us to think strategically about how we deploy our expertise and resource. To continue to provide leadership, we are constantly assessing our role as a standard setter, regulator, educator, and global professional body – to deliver confidence to governments, markets, and the public.

**RICS Futures Report 2020** is our action agenda to keep up in a changing world.

Access and download the Futures report to read RICS' full agenda for effecting change and responding to the biggest issues facing the natural and built environment, in full.

**Read the article, 'Future of Surveying' and gain access to the Futures report in full.**

## **GOV.UK, National Statistics - UK House Price Index [**Last updated October 2020**]**

- The UK House Price Index is a National Statistic that shows changes in the value of residential properties in England, Scotland, Wales, and Northern Ireland.

The UK House Price Index (UK HPI) captures changes in the value of residential properties.

The UK HPI uses sales data collected on residential housing transactions, whether for cash or with a mortgage.

Properties have been included:

- In England and Wales since January 1995
- In Scotland since January 2004
- In Northern Ireland since January 2005

Data is available at a national and regional level, as well as counties, local authorities, and London boroughs.

The summary report contains:

- Headline statistics
- The economic statement
- Price changes

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- Sales volumes
- The property status
- The buyer status for Great Britain (excludes Northern Ireland)
- The funding status for Great Britain (excludes Northern Ireland)
- Housing transactions distributions

**[Read the GOV.UK, Guidance: 'House Price Index Summary: June 2020' \(Published 16 September 2020\)' in full.](#)**

## **Tackling mental health and wellbeing within the construction industry**

### **Samaritans to work with roofers on mental health**

- The National Federation of Roofing Contractors (NRF) is working with the Samaritans charity to explore ways of supporting tradesman in construction who may be struggling with mental illness.

The trade body is also supporting a Samaritan's campaign, Real People, Real Stories, which aims to support working-age men suffering from the impacts of the coronavirus lockdown.

The campaign aims to use real-life stories to reach men struggling to cope and encourage them to seek help.

**[Read the \*Construction Manager\* article entitled, 'Samaritans to work with roofers on mental health' in full.](#)**

### **Wellbeing strategy model:**



Source: BSRIA (2019). 'Wellbeing consideration to property managers', Designing Buildings.co.uk Wiki [online], last edited 20 Aug.

### **Understanding Mental Health in the Built Environment**

Access the CIOB's latest report *[Understanding Mental Health in the Built Environment](#)*, including the results from the CIOB survey of over 2,000 professionals.

[Access CIOB online Policy Portal](#)

**[Access CIOB surveys the sector to gather data on mental health and stress](#)**

[Back to top](#)**How can buildings have positive impact on wellbeing?**

BSRIA's Henry Lawson discusses the importance of designing buildings that promote 'Wellbeing.' The theory sound compelling but in practice, creating such building is complex.

**Access and read 'How can buildings have positive impact on wellbeing' in full.**

**Coronavirus and your wellbeing**

You might be worried about coronavirus (also known as COVID-19) and how it could affect your life. This information is here to help. **Access MIND's article, entitled 'Coronavirus and your wellbeing'.**

**Related Link and where to access further information support:**

**BBC Action Line** [online]. Available at: [bbc.co.uk/actionline](http://bbc.co.uk/actionline)

Telephone: 0800 066 066

**UCEM e-Library content to help you look forward to a more positive 2021!**

It has been a hard year for all so as we start 2021, Emerald Publishing (one of the valuable UCEM e-Library subscription services) wanted to look forward to more positive beginnings in 2021.



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Here are some Open Access Journal articles available via Emerald, all around the theme of '**Happiness in the Workplace**'.

**Note:** The following articles are freely available via **Emerald Publishing Open Access**:

**Title:** '[Happiness among higher education academicians: a demographic analysis](#)', **Author:** Arora R G

**Title:** '[Meaning of "employee happiness" within the context of complex organisations? An explanatory review on the UAE labour force](#)', **Authors:** Benuyenah V and Pandya B

**Title:** '[Positive emotion in workplace impact: The case of a work-based learning project utilising appreciative inquiry](#)', **Authors:** Wall T, Russell J and Moore N

**Title:** '[Analysis of a comprehensive wellness program's impact on job satisfaction in the workplace](#)', **Author:** Marshall C

**Title:** '[Disentangling workplace innovation: a systematic literature review](#)', **Authors:** Prus I, Lazazzara A [et al.]



[Back to top](#)**Emerald Insight – the online platform for Emerald Publishing.**

Emerald champions new ideas in advancing the research and practice of business and management, and manages a portfolio of nearly 300 journals, including a 'Property Management and the Built Environment' collection that UCEM subscribes to.

Emerald works in close collaboration with numerous academic (including UCEM) and corporate organisations worldwide. Emerald Publishing endorses the e-Library's tailor-made research reports – a service provided to UCEM tutors to help supplement teaching and learning materials on subject-specific areas.



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**Sustainable outcomes for buildings**

The Royal Institute of British Architects (RIBA) has published guidance on targeting, designing and evaluating sustainable outcomes for buildings, defining concise measurable set of eight sustainable outcomes that correspond to key UN Sustainable Development Goals and can be delivered on building projects of all scales.

**Access the RIBA Sustainable Outcomes Guide****National Trust planning principles**

**National Trust (NT)**, a charity that works to preserve and protect historic places and spaces – for ever for everyone. The National Trust protect historic houses, gardens, mills, coastline, 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.

**Access the National Trust website****National Trust (NT) – “Our planning principles”**

The National Trust principles are used to guide them in their decision-making on the way land is developed and managed and include:

**Seeking to influence** – The NT seek to influence the Planning system at local, regional, and national levels,

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**Supporting spatial planning** – The NT support spatial planning which takes a holistic approach to its environment and its resources,

**Sensible management** – The NT promotes the wise management of the natural environment and built and cultural heritage,

**Protecting our environment** – The NT will seek to protect wild and remote landscapes from built development or urbanisation.

**Using property management plans** – In managing its land through management plans, the NT will support and help to achieve objectives,

**Objecting to proposals, where appropriate** – When proposing development on their land to meet justified needs, the NT 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.

[Read the National Trust Planning Principles](#)

## **The National Trusts' planning procedure**

The National Trust have developed the following criteria to ensure online 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.

**Case studies** are provided.

[Read how the National Trust engage in planning: The NTs' role as a developer.](#)

## **Foster + Partners Projects**

Foster + Partners Projects – 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. By visiting their website, you can gain further

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information about their current and past work, upcoming projects, and gain access to their-

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

[Access Foster + Partners Projects](#)

## **New RIBA Plan of work 2020**

**RIBA Plan of Work 2020.** This blog takes a look at the new RIBA Plan of Work 2020.

**What is the RIBA Plan of Work?** The RIBA Plan of Work was first published by the Royal Institute of British Architects (RIBA) in 1963. It originally provided a matrix to show the roles of participants in the design and construction processes.

It has since been updated in several editions, most recently in 2020. This has allowed it to adapt to the complexity of modern projects, industry demands and legislative and regulatory requirements.

It now provides a shared framework for design and construction, including both a process map and management tool.

**What changed in 2020?** In 2020, key changes were made to reflect the importance of sustainability and Building Information Modelling (BIM) in construction. The Plan of Work now also incorporates issues such as digitisation of the industry, Modern Methods of Construction, ethical issues, the value of aftercare and timing relating to planning applications and procurement.

This has included restructuring and renaming of the work stages from the 2013 Plan of Work:

**0 – Strategic definition** – no change

**1 – Preparation and briefing** – brief amended to briefing

**2 – Concept design** – no change

**3 – Spatial coordination** – formerly Developed design

**4 – Technical design** – no change

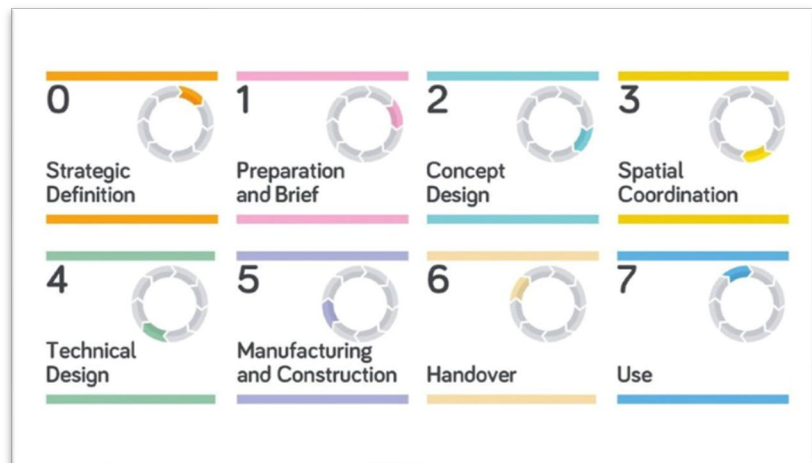
**5 – Manufacturing and construction** – formerly Construction

**6 – Handover** – formerly Handover and close out

**7 – Use** – formerly in use

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## RIBA Plan of Work 2020:



© RIBA 2020

Source: Royal Institute of British Architects (2020) 'RIBA Plan of Work'

**Note:** The author of this blog, Jen Lemen-Hogarth is an Associate Tutor – UCEM and Partner – Property Elite.

[Access Property Elite's, Building Better Property Professionals, 'New RIBA Plan of Work 2020' \[Blog\], in full](#)

## Autodesk and CIOB map the digital construction journey

Autodesk and the Chartered Institute of Building (CIOB) have prepared an infographic to help construction businesses visualise their position on the digital journey.

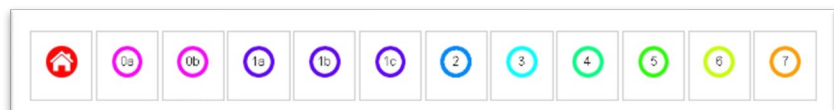
[Access more information, view the infographic and read the article, entitled 'Autodesk and CIOB map the digital construction journey' in full.](#)

[Access further information from CIOB 'Digital Construction'](#)

- Digital technologies are now an integral part of our built environment. The choice is not when or if built assets will use technology, but rather how much will be used.

## Building Information Modelling (BIM)

### Step-by-step guide to using BIM on projects



Source: PCSG (2019) '[Step-by-step guide to using BIM on projects](#)', Designing Buildings Wiki [online] Last edited 5 April.

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.

[Back to top](#)[Access the Step-by-step guide to using BIM on projects](#)**Latest BIM+ News and Projects [January 2021] –**

- **Project:** How BIM drove redevelopment of a Dublin office, 22<sup>nd</sup> January 2021.

A significant redevelopment of an office building in Dublin was helped by BIM software, which the project team used to communicate the design and its challenges to stakeholders, the client, and the supply chain.

**Client:** Aviva Ireland; **Architect:** Lafferty Architects; **Project manager:** Lafferty Project Manager; **Main contractor:** Collen Construction

With views across to Dublin Bay on one side and the Dublin mountains on the other, the Zurich House office building borders the main highway through the Blackrock Estate on the edge of Dublin.

Lafferty Architects was approached by client Aviva Ireland in 2015 with a brief to design the Grade A office building to the highest architectural and environmental standards. Zurich House now stands proudly, making a strong statement with its striking brise soleil on the front elevation, while its brick finish sits comfortably within the context of Blackrock village to its rear.

The original 1980s building, previously known as Enterprise House, was occupied at the time by tenant Zurich Insurance. Zurich needed more space and was looking for a new location.

Three possible options were initially discussed: a light touch upgrade, an extension, or to demolish the existing structure and rebuild. After detailed investigations, the client chose the third option.

- **Project:** D-Day memorial uses 3D Tekla modelling, 11<sup>th</sup> January 2021.

With a cantilevered roof canopy forming an integral part of the new resting place for a unique piece of tank history, Hillcrest Structural used Tekla Structures' 3D model environment to help design, detail, fabricate and erect the steel support structure at the D-Day Story museum in Portsmouth.

**Architect:** Pritchard Architecture and Mann Williams; **Main contractor:** Ascia Construction; **Specialist steelwork contractor:** Hillcrest Structural

**BIM in action: 2020's top five projects**

22 December 2020

- Hospitals, housing, hotels: BIM+ covered case studies of BIM in action in all sorts of construction projects across the world.

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Given what happened in 2020, it's not surprising that three of the most read case studies focus on hospitals.

**2020's top five projects** (and all covered within this and previous issues of *Knowledge Foundations*) incl.

1. **[Sisk reap rewards of high-tech approach at Wembley](#)**
2. **[Finland's Hospital Nova uses VR to involve staff in building](#)**
3. **[NHS Nightingale Hospital, East London – how BIM played its part](#)**
4. **[Mace uses AI tech on Mayfair project to meet covid-19 safety challenges](#)**
5. **[AI tracks work quality at Norway's Stavanger Hospital.](#)**

**[Access BIM+ that include project entitled, 'BIM in action: 2020's top five projects' available in full.](#)**

**Other BIM+ Projects include:**

- **Project: [Digital twin helps University of London track its assets](#), 24<sup>th</sup> November 2020.**
  - The Estates Team at the Royal Holloway, University of London (RHUL) has numerous infrastructure and improvement projects underway. Although the university already has a large volume of asset data – as-built drawings, floor plans, and tree and garden information – each has varying levels of quality, positional accuracy, and age.
  - RHUL hired LandScope Engineering to undertake an integrated PAS 128:2014 utility mapping and topographical survey of the entire campus and provide a single view of all the campus assets, both above ground and below ground. RHUL realised that the best way to house and share this information was by creating a digital twin.
- **Project: [John Sisk relies on BIM best practice to deliver Malmo data centre](#), 2<sup>nd</sup> November 2020.**
  - John Sisk & Son is nearing completion on a data centre project in Malmo, Sweden. Adopting BIM best practice has been crucial to keep construction on programme given a fast-tracked programme amid the Covid-19 pandemic.
  - The Multinational Data Center [sic] in Malmo will house and run a vast array of networks and servers for massive data processing and storage. That means state-of-the-art M&E installations and precise attention to the smallest of details for construction and handover are necessary.
  - The John Sisk & Son team has nearly 40 years of experience in data centre construction and has brought a digital project delivery approach to the Malmo project.

[Back to top](#)**Sisk highlights some significant outcomes:**

- The Sisk team-built dashboards that stored live clash trend reports to track progress weekly, resulting in a 50% efficiency increase in the BIM management process compared to traditional, manual methods of construction coordination without the automating power of the cloud.
- The tight integration between BIM 360 Docs, Microsoft Power BI, and Sisk's own "Design Changes Control" dashboards provided the commercial teams with a faster way to visualise the cost and/or schedule impacts, reducing the overall take-off by a potential 40%
- By using BIM 360, the project continued uninterrupted as construction continued in Sweden during the Covid-19 pandemic.

- **Project: Willmott Dixon takes centre stage on film school fit-out, 12<sup>th</sup> October 2020.**

- Willmot Dixon Interiors' transformation of a former factory in Islington into the London Screen Academy (LSA) film school, completed earlier this year (2020), showcases best practice in the use of BIM on a fit-out project.

The contractor completed the 54-week project for LcatED working in conjunction with the Department for Education. It involved the partial demolition of the central and southern section of the existing four storeys plus basement building, to be replaced by a three-storey plus basement building with an open terrace on the third floor to be used as an amenity space.

One of the customer requirements on this project was to implement a BIM Level 2 process to support the construction plus operation and maintenance stages.

- **Project: Mace use AI tech on Mayfair project to meet Covid-19 safety challenges, 1<sup>st</sup> October 2020**

Balancing the many requirements of a building project – cash flow, cost, quality, and timelines – is always a significant challenge for project leadership. The Covid-19 pandemic made the balancing act even more intense, costing projects valuable time at the start of lockdown and requiring adjustments to ensure the health and safety of all personnel on site as production restarted.

With guidance from the Construction Leadership Council (CLC), recommending 'one metre plus' distancing on sites, it has been a major logistical challenge to keep projects as functional and on schedule as possible, while maintaining safety prerogatives and priorities for all staff.



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- **Project: [BAM responds to Southampton NHS BIM Challenge](#), 11th September 2020**

BAM Construct UK has responded to the BIM challenge issued by its client University Hospital Southampton NHS Foundation Trust on the building of a £21m intense care unit.

BIM is a priority for the trust as it strives to maintain a large and complex estate with multiple projects each year.

The scope of asset data and assets labelling was designed to mesh BIM with the client's computer-aided facilities management systems and required significant fine-tuning.

BAM was just a couple of months into the job when Covid-19 struck and non-essential visits to the project were suspended; the decision was made to roll out weekly virtual project walkthroughs, showing works as they progressed, using the 3D scanning system Matterport.

- **Project: [Hard hat cameras ensure Claridge's project runs smoothly](#), 3 September 2020.**

Northern Ireland contractor Mastercraft has been using Oculo's hard hat camera site-scanning equipment to monitor progress on its work at Claridge's Hotel in Mayfair, London.

Oculo's 360-degree video camera is mounted on a hard hat to record progress each week during a usual site inspection. The system creates a virtual copy of the site that is navigable via an online platform, allowing users to zoom in on areas of interest and pin notes in the virtual space, meaning they can log RFIs, snags and notify clients or contractors about specific issues. Mastercraft adopted the technology when the Covid-19 travel ban came into force, meaning its project manager was unable to leave Belfast to visit the site.

Social distancing regulations also meant that other professionals on the project, such as the QS and design team, could carry out inspections and valuations remotely.

**[Access the Chartered Institute of Building's \(CIOB\), BIM+ articles, projects, case studies and more, in full.](#)**

## **Latest BIM news – 10<sup>th</sup> annual BIM report 2020 available**

**[Construction Information Service \(CIS\) Insight 2020](#). The Latest Edition focuses on the latest NBS Report – **NBS 10<sup>th</sup> National BIM Report 2020** that covers -**

- UK BIM Framework,
- New RIBA Plan of work, and
- Importance of classification and going beyond BIM.

The 2020 annual BIM report marks the 10<sup>th</sup> year of recording over 1,000 industry professional's view about BIM. It illustrates how usage and perceptions of BIM have changed since 2011, progress made as an industry, and anticipated changes in the next decade

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## Built Environment Research

### Latest Policy and Research from:

#### 1) Savills *Impacts – The Future of Global Real Estate*

- Market Trends: Savills.com

In-depth research and analysis into property market trends, forecasts from specialist research teams, and market leading commentary to help you make the right property decisions.

More than 10 years on from the global financial crisis (see publication date), Savills explore debt, interest rates and credit cycles. Which real-estate markets were resilient or have since recovered (but may now be vulnerable to a downturn), and which still have prospects for growth? How are tax policies affecting investment? Savills take a look at the prospects for real estate and how changes in the world economy impact it's future.

#### *Impacts: Real estate investment in 2021: global outlook*

- Savills examine the global trends and in-demand assets for 2021

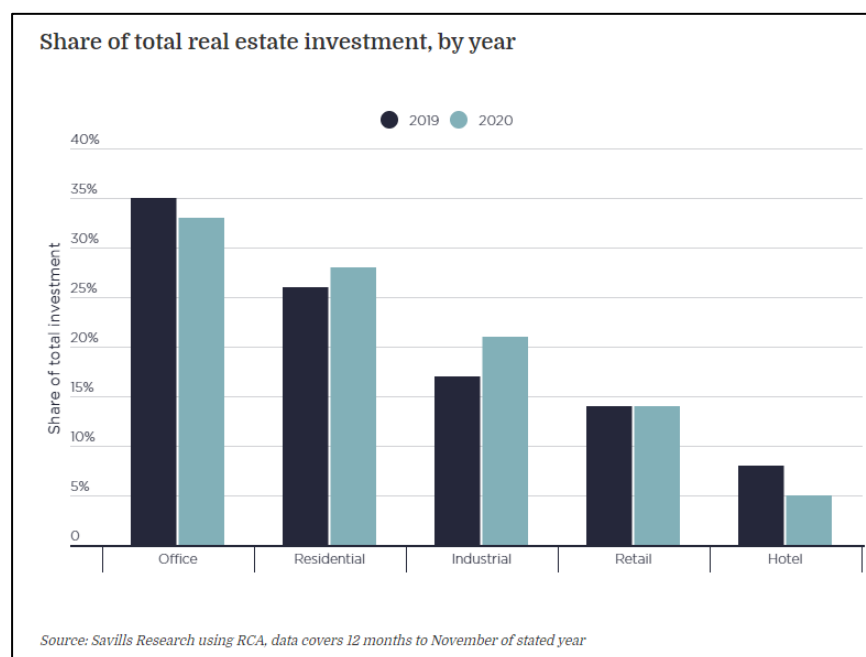
After the exceptional challenges brought by Covid-19, the distribution of a vaccine brings new hope for 2021. Sustained economic recovery is now on the horizons, led by advanced economies where vaccines are being introduced first. This should fuel wider real estate investor confidence.

Global GDP growth in 2021 is forecast to be the fastest in 40 years, according to Oxford Economics, albeit only enough to return global GDP to pre-crisis levels. Many advanced economies have take a 'whatever it takes' approach to supporting economies, with ultra-low interest rates and quantitative easing programmes.

These low interest rates will support real estate investment into 2021. Unlike during the global financial crisis, banks today are less geared, while non-bank lenders have expanded significantly. This provides borrowers with greater options in the recovery. Travel restrictions and broader economic uncertainty led to a fall in deal volumes in 2020. In the 12 months to November 2020, global investment volumes were down by 28% compared to the same period in 2019. Not all sectors felt this equally. The industrial and residential sectors saw more modest falls in volumes, gaining market share to capture 21% and 28% of total investment, respectively, as shown in the graph below:

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## Share of total real estate investment, by year



Source: Savills (2021) *Real estate investment in 2021: global outlook* [online].

The resilience of these sectors that include – Office, Residential, Industrial, Retail and Hotel, in the face of structural change means that's a trend likely to continue to 2021.

In spite of near-term uncertainty, the long-term appeal of real estate has held for investors, and the number of funds targeting it have continued to rise. As of the beginning of Q4 2020, there are more than 1,000 funds in market – more than double the number in January 2016, according to Preqin. Funds are now targeting almost \$300 billion of investments. This suggests investor momentum moving into 2021.

Other areas covered in this research include **The Green Agenda** (covered later within the UCEM Sustainability Hub), and

### SAVILLS Sector investment outlook for 2021

- The Pandemic accelerated a shift to online retail and flexible working patterns. In 2021, logistics is expected to be the major beneficiary, but the challenge for investors will be funding stock.
- Office is forecast to remain the largest sector and the core investment of choice. Emphasis will be placed on lower-risk assets with stable income characteristics in the best locations.
- Residential may attract a growing share of global investment, supported by strong underlying fundamentals and cross-border investors growing and consolidated portfolios.
- Senior housing and healthcare are operational asset classes with long-term income potential. Ageing populations and emphasis on health and wellbeing is expected to support expansion.

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- Data centres are a rising alternative sector and offer opportunity for portfolio diversification. Yields are attractive and pent-up demand is likely to fuel growth in 2021, but barriers to entry are high
- 2020 brought life sciences to the fore. A big increase in capital raising is forecast to spur real estate investment opportunities in a sector resilient to changes in working habits.

[Read the Market Trends – ‘Real estate investment in 2021: global outlook’, in full.](#)

**Read Savills Investment tips and trends by region**

[Read more EMEA tips](#)

[Read more Asia-Pacific tips](#)

[Read more North America tips](#)

**Also:** [Read Savills World cities prime residential forecasts](#)

[Read the latest Issue – 3, 2020 of \*Impacts: The Future of Global Real Estate\*, in full.](#)

In earlier issues (05/20) Savills discuss the potential changes that may be seen across the different sectors. If you prefer to read a specific sector, then select the relevant sections title to go straight there and include: **Office sector**, **Logistics sector**, **Retail sector**, **Hotels sector**, **Institutional residential sector**, **Senior housing and healthcare sectors**, **End-use residential sector**, and **Conclusion**.

[Read the full Savills Impact Publication 'The Impact of Covid-19 on real estate', 2020'](#)

[Savills \(2020\) 'Welcome to Impacts 2020' \*Impacts\*, May, Savills \[online\]. Available at Savills.com](#)

[Savills \(2020\) 'The impacts of the US-China trade war', \*Impacts\*, May, Savills \[online\]. Available at Savills.com](#)

[Savills Covid-19 Resource Hub](#)

## **2) Joseph Rowntree Foundation (JRF) -**

- Inspiring Social Change: The Joseph Rowntree Foundation is an independent social change organisation working to solve UK poverty.

### **UK Poverty 2020/21**

**Related topics** – Housing; Work; Income and benefits

- This is the 2020/21 edition of the JRF's annual report on the nature and scale of poverty across the UK, and how it affects people struggling to stay afloat.

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We are in the midst of the coronavirus storm – a turbulent time when all of us have felt insecurity and instability. But our analysis shows too many of us entered the pandemic already at risk of being cast adrift into poverty, while often lacking secure housing, a reliable income or adequate support. It also shows that those of us already struggling to keep our heads above water have often been hit the hardest. Our response to the pandemic should be measured by how just and compassionate it is to people in poverty, whether they were already experiencing hardship or have been swept into it.

This report highlights early indications of how poverty has changed in our society since the start of the coronavirus outbreak, as well as the situation revealed by the latest poverty data, collected before the outbreak. It examines overall changes to poverty, with sections looking at the impact of work, the social security system and housing. It also benefits from powerful insights from members of our Grassroots Poverty Action Group, who have direct experience of living on a low income.

**Recommendations:**

- We need as many people to be in good jobs. Unemployment is expected to rise in the coming months, and we need to see further bold action to retrain workers and create good quality new jobs
- We need to improve earnings for low-income working families and ensure more people are in secure, good quality work. Government must support people in the lowest-paid jobs, or people working part-time, to move into higher pay and access sufficient and secure working hours, including bringing forward the Employment Bill.
- We need to strengthen the benefits system. At a minimum, we need the temporary £20 per week increase to Universal Credit and Working Tax Credit to be made permanent, extending this same lifeline to people on legacy benefits such as Jobseeker's Allowance and Employment and Support Allowance.
- We need to increase the amount of low-cost housing available for families on low incomes and increase support for households who have high housing costs.

**[Read the JSR report entitled, 'UK Poverty 2020/21' in full](#)**

**Related Links:**

**[Read the JSR Analysis entitled, 'Spending Review: No plan to protect people in poverty' in full](#)**

**[Read the article 'UK Poverty 2019/20 Housing' in full](#)**

**[UK Poverty Statistics from the Joseph Rowntree Foundation](#)**

- The latest UK poverty data, statistics and analysis from JRF's Analysis Unit. This **online toolkit** can be used to find information about poverty rates and related issues in the United Kingdom.

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### **3) 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 their website, the Institute offers a platform for thought leadership on a wide range of topics.

#### **A National Housing Conversion Fund: buying properties to boost affordable housing supply**

September 2020

The Smith Institute's Affordable Housing Commission published a report into the national housing conversion fund. The report examines two main ways a ring-fenced National Housing Conversion Fund could be achieved. The first is targeting funds to purchase homes on the secondary (existing) market. It examines which housing markets – in broad terms – the investment might be best aimed at, factoring in how it could help improve housing condition and support jobs and growth.

This option could be weighted to support weaker housing markets by providing a floor for the market and helping those struggling and desperately needing to sell. Finding could be made contingent on investing in a property to raise standards. By focusing on low demand housing areas, a higher proportion of the investment would target jobs and growth rather than land costs in high demand places, where the economic rationale is weaker.

The second aspect concerns additional funding for social landlords to purchase homes for sale being built by housebuilders and converting them to social and affordable housing. With sites stalled and the prospect of construction workers losing their jobs, this approach would meet the strategic objective of making more housing affordable, as well as the shorter-term goal of supporting the recovery. It would also ensure that capacity and capabilities within the housebuilding industry is not lost due to the downturn but retained for when a recovery materialises.

The overarching case for a National Housing Conversion Fund rests not only on the urgent need to increase social and affordable housing and rebalance the housing system, but also as a quick and cost effective way of supporting the economy as we move forward from – what we hope – is the worst of the pandemic. And, as demonstrated in this report, such a scheme could also improve housing conditions and contribute to the government's strategic ambitions to level up the economy and reduce carbon emissions.

**Read the full piece of research, 'A National Housing Conversion Fund: buying properties to boost affordable housing supply'.**

[Back to top](#)**Falling behind: The impact of Universal Credit (UC) on rent arrears for council tenants in London**

July 2020

This report was commissioned by Southwark Council, with the support of eleven other London local authority landlords and coordinated by London Councils. The research and report focus on two main questions:

- How has the roll-out of Universal Credit (UC) affected rent payment behaviours among residents in local authority-owned housing across London?
- How are identified changes in behaviour – or the absence of behaviour change – affecting the tenancies of those tenants who are receiving housing cost support under the new arrangements?

This research was commissioned against the backdrop of growing evidence of the impact that UC is having on rent payment behaviour and rent arrears, as well as broader concerns about how it is affecting the financial wellbeing of recipients. Much of the previous research in this field has focused on one or two housing providers. The intention of this research was to understand what the overall impact might be across multiple providers and locations. To achieve that objective the research covered 12 participating London boroughs, who collectively own over 210,000 homes – 13% of council housing in England. 1 Including data from these 12 boroughs also offered a larger sample of cases.

The study examined those making a new claim for the housing element of UC during a three-month period (July-September 2019) in the 12 London boroughs with final rental data running until December 2019. This falls after the roll-out of Universal Credit full service to all parts of London, which was completed by December 2018. It also follows a series of reforms made in 2018, including the abolition of the seven-day waiting period and the introduction of a two-week Housing Benefit (HB) run-on.

The report tells this story of financial stress through analysis of tenant rent accounts. The scale of the costs to social landlords is also apparent in escalating arrears after tenants make an effective UC claim.

By examining this impact and tracing rent behaviour over time, the analysis points towards what kind of reforms might be needed to improve UC to the benefit of both tenants and social landlords which are presented in the report.

**[Read the full piece of research, 'Falling behind: The impact of Universal Credit on rent arrears for council tenants in London'.](#)**

**Consumer Rights in the Private Rented Sector**

July 2020

People who rent from a private landlord are at the sharp end of the housing crisis, but the truth is we have often more rights as consumers when we rent a car, buy a fridge-freezer or take out a loan than we do as private renters.



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This has been reinforced during the coronavirus crisis, with people spending more time at home and many realising just how precarious their housing situation is.

This report sets out a new perspective on how we can improve the private rented market: by recognising the consumer gifts we're used to having in other markets, from utilities to financial services, and looking at how we might apply those lessons to the private rented sector.

**Read the full piece of research, 'Consumer Rights in the Private Rented Sector'**

**All things being equal: The final report and recommendations of the Enfield Poverty and Inequality Commission (EPIC)**  
January 2020

- This report presents the findings and recommendations of the Enfield Poverty and Inequality Commission. The Commission, chaired by Baroness Tyler of Enfield, was made up of a mix local and national stakeholders and experts and was supported by the Smith Institute.

To undertake a review of poverty and inequality in Enfield and set out recommendations, the Commission:

- Initiated a 'call for evidence' to understand the views of local people and organisations. A feedback account was set up and promoted and comment boxes were placed in Enfield's four hub libraries for member of the public to submit evidence.
- Considered relevant existing datasets across a range of available evidence bases.
- Engaged directly with local people, service providers, community organisations and businesses, through public meetings, focus groups, and one-to-one interviews.
- Considered best practice that has successfully been taken forward in Enfield and elsewhere that may be replicated or adapted for wider use.
- Held four Commission meetings to hear evidence on the three threads with follow up discussions.
- A deliberative 'solutions workshop' at Green Hall Community Centre in Edmonton, inviting organisations and members of the public who had engaged with the Commission to come together and formulate recommendations.

The Commission's work focussed on three inter-connecting themes. These were:

- Living: To what extent does who we are and where we live affect our life chances and the services we can access?
- Learning: What barriers prevent local people from accessing opportunities through education and training?
- Earning: How can people on low incomes be better supported to secure long-term economic prosperity?

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[Read the full piece of research, 'All things being equal: The final report and recommendations of the Enfield Poverty and Inequality Commission'.](#)

### **Safe as Houses 3: Have government reforms to Universal Credit reduced the rent arrears of Southwark's tenants?**

- This report was commissioned by the London Borough of Southwark. The aim of the report is to better understand the impact that Universal Credit (UC) has had on the rent payment behaviour of the borough's own social housing or "council" tenants.

The report focuses on two main questions: first, whether there has been an improvement in rent payment behaviour since reforms to UC were introduced in 2018; and second, to see what the impact of UC has been long after tenants have transitioned onto the new benefit.

[Read the full piece of research, 'Safe as Houses'.](#)

### **4) CBRE Research Blog: About Real Estate**

The CBRE Research blog showcases a variety of informed viewpoints, spanning all major property sectors that include –

- **Offices** – Discover up to the minute and future looking trends in the Office sector for occupiers, landlords, investors and developers
- **Retail** in detail,
- **Industrial** – CBRE 'shed' light on all things industrial,
- **Residential** – CBRE's 'house' vide on all things residential, and
- **Investment** – addressing the challenges and opportunities facing commercial real estate property investors

[Access the CBRE website and About Real Estate Research Blog](#)

### **5) CIBE – Chartered Institute of Building Engineers**

Two new publication have been launched from the Competence Steering Group (CSG) in 2020 with the view to improving competence and driving culture change throughout the industry.

***Setting the Bar*** – a blueprint to improve competence for those working on higher risk buildings and drive culture change has been set out by a cross-industry group representing more than 150 organisations, including CIBE, in the fire and built environment industries

*Setting the Bar* is the second and final report of the CSG and is an update of its Interim Report, *Raising the Bar* published in August

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2019. The work was initiated by the recommendations in Dame Judith Hackitt's review *Building a Safe Future*.

[Access \*Setting the Bar – Final Report\*](#)

### **Competence Requirements for new role of Building Safety Managers**

The competence requirements for the proposed new role of the Building Safety manager was been set out in a new 2020 report ***Safer people, safer homes: Building Safety Management***.

Under new legislation being introduced in the *Draft Building Safety Bill* published in July 2020, those deemed responsible in law for the safety of higher-risk building, such as the landlord, will be required to appoint a Building Safety Manager.

The role of the Building Safety Manager will be to look after the day-to-day management of fire and structural safety in higher-risk buildings and establish a clear point of contact for residents for fire and safety related issues.

[Access \*Safer people, safer homes: Building Safety Management\*](#)[Access the Chartered Association of Building Engineers for further information.](#)[Access \*Building Engineer website\*](#)

## **6) RICS – Royal Institution of Chartered Surveyors**

- RICS 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 profession and raise the profile of the industry.

Note: Latest research published by RICS is covered earlier within *Knowledge Foundations* and under **Other News > RICS Market Surveys**.

As of **January 2021**, the **latest news & insights** include:

- European construction costs compared
- BCIS five-year civil engineering forecast
- 2020 Quarter 4 estimate of Tender Price Inflation
- [\*\*The effect of Brexit on UK construction\*\*](#)
- Housebuilders' costs uncertainty
- Black Lives: has property and construction progressed?
- Supporting commercial landlords and tenants through COVID-19 rent crisis

## **7) CIOB – Chartered Institute of Building**

The quality of the built environment effects every member of society. As a professional body that represents the leaders and managers who work at every stage of the lifecycle of a

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construction project, The Chartered Institute of Building (CIOB) 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.

As of **January 2021**, the latest CIOB Policy and Research include:

- **Ethics research** – *Understanding Mental Health in the Built Environment,*
- *Construction and the Modern Slavery Act: Tackling Exploitation in the UK,*
- *The State of Well-being in the Construction Industry,*
- *Building a Fairer System: Tackling modern slavery in construction supply chains,*
- **Economics and social impact research** – *The Real Face of Construction 2020*
- **Future of Construction research** – *Aiming the Construction Industry for the Future: Recruiting from the military into construction.*
- **Education and skills research** – *Exploring the impact of the ageing population on the workforce and built environment*
- **The Wider Built Environment** – *Understanding the Value of Professionals and Professional Bodies.*

[Access the Chartered Institute of Building's Policy and Research website](#)

## **8) [House of Commons Library](#), 9) the House of Lords Library and 10) the Parliamentary Office of Science and Technology (POST)**

**About the House of Commons Library** - The House of Commons Library is a research and information service based in the UK Parliament. Their impartial analysis, statistical research and resources help MPs and their staff scrutinise legislation, develop policy, and support constituents.

[Watch this quick video to find out how the House of Commons Library works](#)

Source: UK Parliament (2020) 'How the House of Commons Library works', YouTube [video]. Available at: youtube.com

As of **January 2021**, the House of Commons Library has recently updated their website that is now broken down into the following sections or subject areas:

**Services** that include Research, Resources, Training & Events,

**Brexit** that covers Legislation, Negotiations, Policy, The EU, and Brexit explainer videos,

**Coronavirus** – read the latest Coronavirus (COVID-19) research and analysis from UK Parliament.

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**Economy, Business and Transport** that include Business, Economy, Economic Updates, Transport, and Work & Incomes,

**Home Affairs** incl. Communities, Crime, Family & Civil Law, Justice, Immigration, Security, and Culture, Media & Sport,

**Parliament & Elections** that include Devolution, Elections, Government, Parliament, and Local Government,

**Science, Environment and Technology** that include **Energy, Environment, Climate Change**, Sciences, **Local Data**

**Social Policy** that include **Education**, Families & Social Services, Health, **Housing & Planning**, and Welfare & Pensions,

**World Affairs** that is broken down into Africa, Americas, Asia Pacific, Defence, Europe, Institutions, and Middle East, and more.

As of **January 2021**, the latest House of Commons, **Research Briefings** incl.

1. Service industries: Key Economic Indicators
2. Coronavirus: Long Covid
3. Gross Domestic Product (GDP): Key Economic Indicators
4. Coronavirus: Financial Impact on higher education
5. Coronavirus: enforcing restrictions

Under '**Education**' and within 'Social policy', the top research briefings incl.

1. Coronavirus: Financial Impact on higher education
2. Opposition Day Debate: Access to Remote Education and the Quality of Free School Meals
3. Support for pupils' education during school closures
4. Coronavirus: Childcare FAQs
5. Debate on an e-petition relating to the rollout of Covid019 vaccinations.

Under '**Housing and Planning**' and within 'Social policy', the top research briefings incl.

1. The Cladding External Wall System (EWS)
2. Tackling the under-supply of housing in England
3. Housing Market: Key Economic Indicators
4. Coronavirus: Support for rough sleepers (England)
5. Coronavirus: Advice on home moves

Under '**Energy**', '**environment**' and '**Climate change**', and within 'Science, Environment and Technology' include:

1. The UK-EU Trade and Cooperation Agreement: (a) summary and implementation, and (b) the path to the deal,
2. The UK's contribution to the EU budget
3. Energy policy: an overview
4. Plastic Waste, and Tree Planting in the UK
5. Household flood insurance: Flood Re

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6. Reading list of UK and devolved Parliament and Assembly publications on the UK's withdrawal from the European Union and UK-EU future relations.

[House of Commons Library search](#) on 'construction industry' identifies 18 key documents, that incl. 'Taxation in the construction industry', 'CITB – Construction Industry Training Board Levy', and '**The construction industry: statistics and policy, December 2019**' -

Abstract: Construction industry – employment, new orders, output. [Construction 2025](#), [The Farmer Review](#) and the [Construction Sector Deal](#) (part of the government's [Industrial Strategy](#)).

**Key statistics** – In 2018, the construction industry contributed £117 billion to the UK economy, 6% of the total.

Economic output in 2018 was slightly down on 2017, the first fall since 2013.

There are 2.4 million construction industry jobs in the UK in Q2 2019, 6.6% of all jobs. There are more constructions jobs now than at any time since 2007, although throughout this period, roughly the same proportion of jobs have been in construction.

The construction industry is unusual because of the high proportion of self-employment in the sector – 36% in Q2 2019, compared to the average for the whole economy of 13%.

New orders to the construction industry were worth £61.7 billion in 2017. This is 13% down in 2017, the first fall since 2011. New housing orders accounted for 35% of all construction orders, commercial orders accounted for 25% and infrastructure orders accounted for 19%.

[Access and download the full report, 'Construction industry: statistics and policy](#)

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## Property and Construction Statistics

### Latest Property and Construction Statistics from RICS:

**UK Economy and Property Market Chart Book, Q4 2020**

- Output is likely to drop again in the last quarter of the year.

**Following a pick-up in Q3, GDP is likely to drop again in Q4 –** Output across the UK economy recovered by 15% in Q3 according to the latest estimates from the Office for National Statistics (ONS). Despite this being a record quarterly increase in GDP, aided by an easing of lockdown measure over the summer (2020), it still leaves the total level of output 8.3% below where it stood prior to the

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pandemic back in February. Moreover, with England entering a second lockdown at the start of November, the economy will undoubtedly suffer a further setback on its road to recovery this month (see publication date). That being said, current restrictions are not quite as stringent as those imposed back in March (schools will remain open for instance), meaning the contraction in economic activity this time round is expected to be much smaller than that seen during Q2.

Also covered in this **Q4, 2020 UK Economy and Property Market Chart Book**

- To soften the blow, the bank has launched further stimulus
- While fiscal support has also risen
- Still, unemployment is likely to rise further
- **Recovery in the housing market will run out of steam further ahead** - Activity across the UK housing market remain firm which appears to be at-odds with the subdued economic picture. Housing transactions have continued to rebound while mortgage approvals in September 2020 reached their highest level in thirteen years. However, feedback to the *RICS UK Residential Market Survey* (also covered in this issue of *Knowledge Foundations*) suggests that this trend is unlikely to be sustained further ahead. Average twelve-month sales expectations point to momentum slowing with the difficult economic backdrop expected to weigh on activity next year as the Stamp Duty holiday comes to end. Meanwhile, the Q3 results for the RICS UK Commercial Property Market Survey (also covered in this issue of *Knowledge Foundations*) suggest that the office and retail segments of the market are continuing to struggle against the challenges posed by the ongoing pandemic while activity across the industrial sector seems to be relatively more resilient. Over the course of the next twelve months (see publication date), rents are envisaged to decline sharply in both the retail and office sectors. In contrast, contributors envisage industrial rental values rising by around 1.5% in the coming year.
- **Government policies are likely to support activity in the construction sector** - Turning to the construction sector, the government's commitment to increase infrastructure spending is likely to help support activity across the industry in the coming years. A net balance of +35% of respondents to the RICS Q3 2020 survey (covered in previous issues of *Knowledge Foundations* available within the UCEM e-Library) anticipate workloads rising in the infrastructure sector over the course of the next twelve months. Output is also seen rising across the private housing sector supported by new permitted residential development rights and reforms to England's planning system.

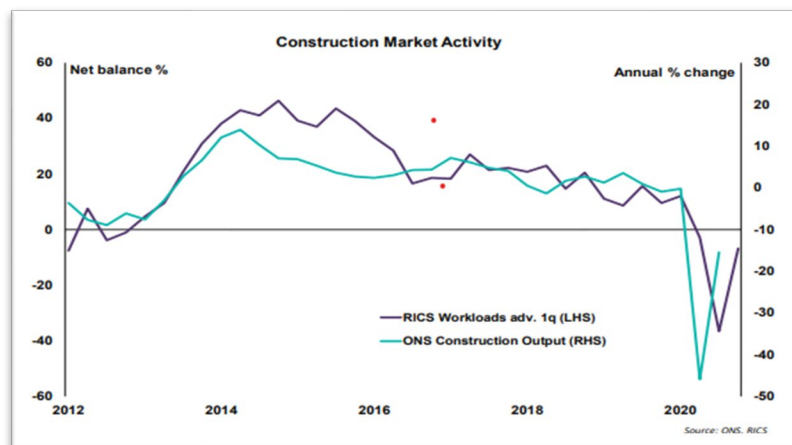
**Construction Sector** – In the RICS UK Construction Market Survey, the headline workloads net balance registered a reading of -7% in Q3 2020 up from -37% in Q2. Although this suggests that activity is beginning to recover somewhat across the sector, it is



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probably that construction output will remain down on a year-on-year basis, at least in the near term (see Chart 20).

**Chart 20: Output is unlikely to reach pre-Covid levels in near term:**



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q4 2020), London: RICS, p11 - Chart 20.

**Read the full piece of research 'RICS UK Property and Market Chart Book, Q4 2020'**

**UK Residential Market Survey: December 2020**

- Sales market activity indicators remain positive albeit momentum continues to ease.

- Indicators on enquiries, sales, and instructions still positive, although impetus has cooled recently
- House price inflation remains elevated across most part of the UK, with the exception of London
- Near term expectations suggest sales market momentum will fade further in the coming months.

The December 2020 RICS UK Residential Survey results continue to point to rising activity across the market, even if the pace of growth has softened noticeably compare with earlier in H2. That said, sales expectations have retreated according to the most recent feedback, with respondents anticipating the latest lockdown restrictions (and the related economic challenges), coupled with the ending of the Stamp Duty holiday, to weigh on activity going forward.

In terms of new buyer demand, a headline net balance of +15% of survey participants saw an increase in enquiries during December 2020. Although still positive and therefore indicative of some degree of uplift in demand, this latest reading is down from +26% last time out and has now moderated in five successive reports.

Meanwhile, the flow of new instructions being listed onto the sales market continued to pick-up over the month, albeit modestly, evidenced by a national net balance of +7% of respondents reporting an increase. Alongside this, the number of appraisals

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being undertaken remains higher than in the comparable period of 2019, with the December net balance also coming in at +7%. Nevertheless, in both cases these indications have softened over recent months in another sign that momentum has eased of late.

The survey's indicator on agreed sales returned a net balance reading of +18% in December, compared with +24% previously. As such, this represents the seventh consecutive positive monthly reading, albeit growth has clearly softened relative the summer and autumn periods (during which the net balance hit a high of +60%).

**[Read the latest RICS UK Residential Market Survey: December 2020 in full.](#)**

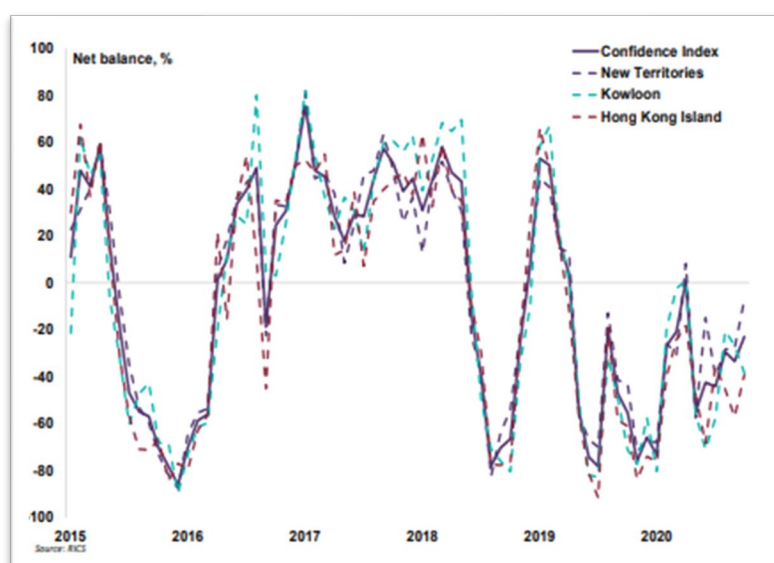
**RICS - SPACIOUS 千居 Hong Kong Residential Market Survey: December 2020**

- Outlook for sales volumes improves while rent expectations deteriorate

- Aggregate sales volumes expected to rise nearly 1% over the next 12 months
- Rents remain under pressure amid tepid demand
- Outlook for price growth over the next five years still sluggish

Although sentiment surrounding the housing market remained negative to end 2020, data from the latest RICS Spacious Hong Kong Residential Monitor suggests that the downside pressure may be easing. The Confidence Index\* (CI), shown in Chart 1, rose to -23 in December from -33 in November. Although a negative reading continues to indicate a contraction in market activity, -23 is the least negative return since June.

**Chart 1: Confidence Index\*:**



Source: RICS Economics Research: *RICS Hong Kong Residential Monitor – December 2020*, London: RICS, p1 - Chart 1.

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\* The Confidence Index is a composite measure capturing overall market momentum, encompassing variables on short-term.

As depicted in Chart 1, the dispersion in sentiment between Hong Kong's regions appears to have widened of late. In December, the CI for the New Territories moved to -7 from -28 previously. Meanwhile, the CI for Kowloon and Hong Kong Island were significantly more negative, at -38 and -39 respectively. Of note, throughout this period, Hong Kong Island has tended to be the negative outlier, while sentiment towards Kowloon's housing market has been more volatile.

**[Read the latest RICS HK Residential Monitor: September 2020 in full.](#)**

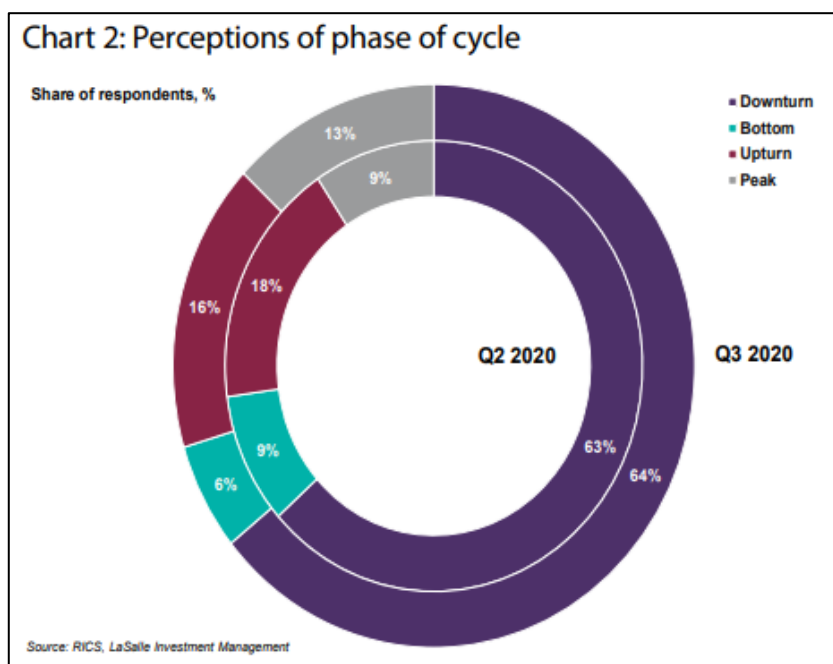
### **Global Commercial Property Monitors, Q3 2020**

- Headline rents and capital values expected to soften amid gloomy economic backdrop.

- Commercial property sentiment indices still stuck in negative territory around the world
- Retail and office sectors facing significant disruption while industrials show resilience
- 64% of respondents see their market turning down, with just 6% sensing conditions have reached a floor.

### **Majority of respondents see their market turning down**

As shown within the Chart – Perceptions of Phase of Cycle, 64% of respondents worldwide currently view their local market to be in a downturn phase of the property cycle. This is more or less unchanged from 63% back in Q2.



Source: RICS Economics Research: *RICS Global Property Monitors, Q3 2020*, London: RICS, p2 - Chart 2.

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Meanwhile, only 6% of contributors feel the bottom of the cycle has been reached, slightly less than the 9% of contributors who held this view in Q3.

[Read the latest RICS Global Commercial Property Monitor, Q3 2020 in full.](#)

## **Latest Statistics from the Office for National Statistics (ONS)**

### **Construction Industry highlights include – Construction output in Great Britain: November 2020**

Short-term measures of output by the construction industry and contracts awarded for new construction work in Great Britain.

#### **What's covered in the latest bulletin?**

- Construction output grew by 1.9% in the month on-month all work series in November 2020, because of a 3.5% increase in new work that more than offset the 0.6% fall in repair and maintenance; this was the seventh consecutive month of growth since the record decline (40.7%) in April 2020.
- The level of construction output in November 2020 was 0.6% above the February 2020; with repair and maintenance work 7.4% above and new work 3.1% below its pre-pandemic level.
- The monthly increase in new work (3.5%) in November 2020 was because of growth in all new work sectors apart from public new housing and public other new work, which fell by 2.4% and 2.8% respectively.

[Read the full statistical bulletin, 'Construction output in Great Britain: November 2020](#)

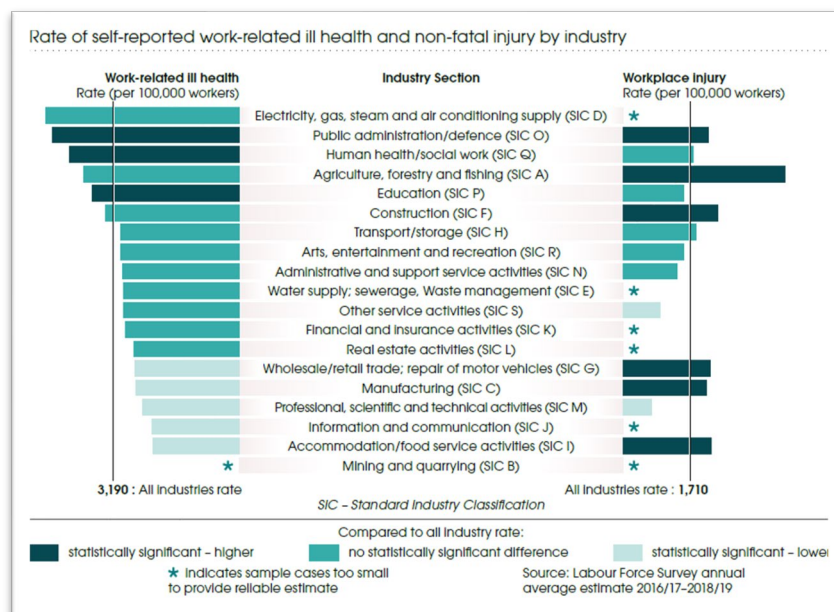
## **Latest Statistics from HSE – Health and Safety Executive**

In 2018/19 an estimated 1.4 million workers were suffering from an illness they believed was caused or made worse by their work and 581,000 workers sustained a non-fatal injury at work. However, the risk of injury and work-related illness varies across industry, being more likely in some industries than others. The chart that follows shows how the overall **rates** of self-reported work-related illness and workplace injury vary between industry groups.

- The industries for which the rate is statistically significantly higher than the average is generally not the same for work-related ill health and workplace injury.
- While the chart shows the overall picture for each industry group (that includes 'construction'), this may be masking differences at more detailed levels (for example illness type or more detailed industry sub-groups).

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### For 'Rate of self-reported work-related health and non-fatal injury by industry'



© Crown copyright 2019

Source: HSE (2019) 'Health and safety at work: Summary statistics for Great Britain 2019', Bootle: HSE, p9.

more detailed statistics on selected industry groups (that include 'construction' can be found from [the suite of health and safety statistics tables](#).

[Access further information on health and safety statistics from HSE – Health and Safety Executive.](#)

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## e-Journal Review

### Built Environment Industry Journal titles reviewed by UCEM e-Library

**Modus** - the RICS magazine that brings you the latest news and views, expert advice and in-depth features spanning the breadth of the surveying profession around the world.

In the latest digital **MODUS** (January 2021), RICS takes a look at 'Five skills every surveyor should be developing in 2021. With COVID-19 putting unprecedented pressure on our businesses, and repeated lockdowns leaving us with more time at home, now is a great time to build up your skill sets in some crucial areas.

Latest articles:

- **How to cool homes without heating the climate:** As global temperatures rise, so does the demand for air for air-conditioning,

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which guzzles energy and emits greenhouse gases. The race is on to find alternatives – which could be refreshingly low-tech.

**- Future leader Q&A: Young Surveyor of the Year – Giles**

Heather's long list of achievement include setting up a wellbeing initiative, advising a youth charity, and becoming an APC lead. He tells us how he manages it all.

**- Why it's time for renewal for RICS professionals –** In her first column as RICS president Kath Fontana looks back with pride at the resilience shown by chartered surveyors in the past year (see publication date) and looks forward to a year of building back better.

**- Q&A with Lifetime Achievement winner Stephen Hill –**

Stephen Hill MRICS is the first winner of the RICS Social Impact Lifetime Achievement Award. He reflects on his 50-year career and on the communities, he empowered to build their own futures.

**- RICS Awards 2020 Hong Kong: celebrating excellence –**

From the most inspiring project management team to the sustainability achievement of the year, the RICS Awards celebrate the best in Hong Kong's built environment.

**- RICS Awards 2020 Southeast Asia: Inspiring achievements –**

With a 60% increase in submissions this year, the awards recognise the most outstanding and impactful achievements in the built environment.

**- RICS Regulatory Tribunal hearings, Q4 2020**

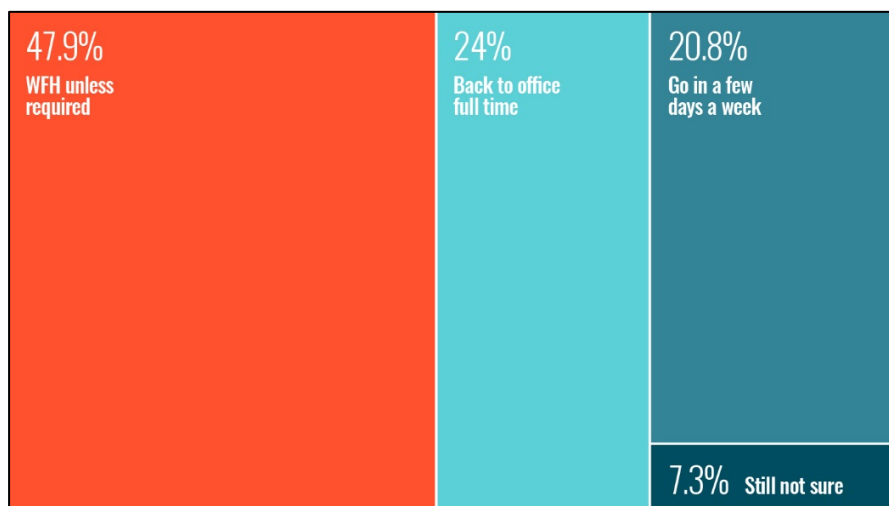
**- New president, new vision for infrastructure –** There hasn't been a major infrastructure bill passed in the US for 20 years, with most funding going towards maintaining ageing assets. Will Joe Biden's big Infrastructure Plan turn things around?

**- Black Lives: has property and construction progressed?** The Black Lives Matter protests of 2020 made headlines and forced business to question their approach to diversity. Has the built environment become more inclusive?

**- Working from home: how was it for you?** Companies are calling for staff to get back to the office but the data (as shown overleaf) suggests that employees aren't all ready to return to the commute just yet:

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### Working from home: how was it for you?



Source: RICS (2020) 'The results of the RICS Modus Twitter poll on home working', *Modus*, 1 October, London: RICS.

Please note: In addition to *MODUS*, RICS publishes other journals that are free to view online incl.

1. **Construction Journal** - The journal helps **quantity surveyors** and project managers with the technical and professional aspects of their day jobs and keep up to date with developments and practical matters in the profession. It covers topics including contracts, cost management, procurement, construction law and regulations, communication, and project management skills.
2. **Built Environment Journal** (incl. Building Surveying, Building Conservation, and Building Control) - Coverage keeps practitioners in the disciplines of building surveying, building control, and building conservation up to date on the latest developments, products, standards, and guidance.
3. **Land Journal** - The journal emphasises the crossovers in these practice areas and their global nature, with articles contributed by experts from all over the world.
4. **Property Journal** - The journal contains high-quality technical material in clearly defined sections, as well as some material that crosses professional groups to reach a wider audience.

Further information can be accessed via the RICS Website, Home > News & Insights > **RICS Publications** [online].

The Heritage Alliance's **Heritage Update**, the latest edition, **January 2021 – Issue 434** focusing on **2020: Our Year in review**. In responding to challenges 2020 brought to the Heritage Sector, The Heritage Alliance team focused efforts on advocacy, programmes, and resources to support members in managing the impacts of the COVID-19 pandemic and successive lockdowns across the sector.

Institute of Workplace and Facilities Management (IWFM) **Facilitate**, the latest **January/February '21** edition focusing on



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'Getting what we value' – Value. It's a shape-shifting concept. We come across it everywhere. It signifies the importance, worth or usefulness of something. Our values are what we call the principles or standards of behaviour that represent our judgement of what's important. Valuing is when we judge something to be worthy or good. To value is also to determine how much money a thing is worth.

**Contractors World International,**

**Construction Manager** is the magazine of the Chartered Institute of Building (CIOB) who also publish the **Global Construction Review** (GCR).

**Construction Information Service (CIS) Insight 2020.** The Latest Edition focuses on – **What is environmentally conscious building?** that covers -

- **Improving construction methods,**
- **Environmentally friendly techniques, and**
- **The project lifecycle and future of building.**

**Taylor and Francis Online** incl.

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

**Henry Stewart Publications** incl.

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

In-depth articles and case studies scheduled for the new volume, **Vol 10 (2020-21)** of **Corporate Real Estate Journal** incl.

1. **COVID-19 – Implications for Real Estate**
2. **Workplace Strategy & Scenario Planning: Moving beyond the tangible to understand the future of work and place in a post pandemic world**
3. **Recognising the socio-technical opportunity of workplace: an analysis of early responses to COVID-19**
4. **How will the Covid-19 pandemic lead to a complete reinvention of our workplaces and offices?**
5. **Global-Warming and a new way to go to work, accelerated by Covid-19**
6. **COVID-19: Reimagine: How and where the work differently**
7. **New Demands for Resilience in Real Estate – Consequences of the Covid-19 pandemic**
8. **After the lockdowns – will we need less office space?**
9. **My home is my castle – An experiment-based home office analysis during COVID-19**

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10. Telia and Veolia: A Case Study of Shifting from Supplier to Strategic Partner
11. Energy Optimization and the Future: The Next Meaningful Cost Savings Frontier
12. Data Analytics and the Future of CRE Blockchain
13. Gen Z and the workplace: can we all get along?
14. The future role of Corporate Real Estate in delivering 'place'
15. CRE Leadership: Crisis Demands Transition to a Digital Ecosystem
16. Changing Priorities Have Accelerated Trends and Fundamental Shifts in the Supply and Demand Models for Corporate Real Estate Outsourcing
17. Managing Global Property Portfolios, Transactions and Teams: Essays for Corporate Real Estate Executives:
  - Part 1: Starting afresh,
  - Part 2: Communications,
  - Part 3: Assembling and Managing In-Market Teams,
  - and Part 4: Transactional Risk Management in Multinational Context

### Educational Journal titles and Open Educational Resources (OERs) reviewed by UCEM e-Library

*OpenPraxis* – peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.



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The latest edition, **Vol 12(3)** and third *Open Praxis* in 2020 includes six research papers and two innovative practice papers:

#### Research articles include:

1. 'Forty Years of Distance Education: Challenges and Implications at the Open University of Sri Lanka'
2. 'Implementation of Learning Management System: A Way Ahead on the Digital Journey in Distance Learning'
3. 'Examining eLearning system self-efficacy amongst instructors at the University of Dodoma, Tanzania'

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4. 'Determining needs and priorities of learners with special needs for support services in an open and distance learning context in Turkey'
5. 'A case study of work-based learning through the design of edX MOOCs for Latin America and the Caribbean'
6. 'Academic Librarians Examination of University students' and Faculty's Perceptions of Open Educational Resources'

**Innovative practice articles include:**

1. 'Academic e-tandems as a strategy for English language learning in a Mexican university'
2. 'If at First You Don't Succeed, Try Closing Another Assessment Loop: Implementing Online Co-Curricular Assessment.'

**European Journal of Open, Distance and E-Learning**

(EURODL), 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.

Published in the latest issue, **Vol. 23 (2021): Issue 2 (Jan 2021)**, article titles include:

- 'Building Digital Capacity for Higher Education Teachers: Recognising Professional Development Through a National Peer Triad Digital Badge Ecosystem',
- 'Cultivating Self-Regulated Learning in Flipped EFL Courses: A Model for Course Design',
- **'Transcript and Accessibility: Student Views from Using Webinars in Built Environment Education', by UCEM's Tharindu R. Liyanagunawardena**
- 'Vector AR3-APP – A Good-Practice Example of Learning with Augmented Reality',
- 'Educators' Digital Competence in Swedish Rural Schools',
- 'Proposition for the Introduction of the Concept Telemathesis in Videoconferencing in Distance Education',
- 'Developing E-Authentication for E-Assessment'
- 'Diversity of Students Testing the System in Higher Education'.

**Online Learning Journal (OLJ), the official journal of the Online Learning Consortium (OLC)**

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.

The OLC **Online Learning Journal**, latest edition, **Vol 24(4)**. This special issue of *Online Learning* (OLJ) features a selection of papers submitted to the American Educational Research Association (AERA) comprises an international membership spanning more than 96 countries. AERA's mission is to advance

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knowledge, scholarly inquiry, and the use of research to improve education practice and policy. The organisation's more than 25,000 members work in fields such as higher education, research institutes, schools, government agencies, corporations, and non-profit organisation.

**Table of Contents****Special Conference Issue: AERA Online Teaching and Learning SIG - Special Interest Group**

- 'Introduction to the Special Issue: Highlighting AERA's Online Teaching and Learning SIG 2020'
- 'Virtually Authentic: Graduate students' Perspective Changes toward Authentic Learning while Collaborating in a Virtual World'
- 'Exploring Student Perception of Flip-grid in Online Courses'
- 'Exploring the Use of Digital Technologies from the Perspective of Diverse Learners in Online Learning Environments'
- 'Asynchronous Online Discussions During Case-Based Learning: A Problem-Solving Process'
- 'Emotional Presence in Building and Online Learning Community Among Non-traditional Graduate Students'
- 'Academic Family Integration: How Do Men and Women in Distance education and Residential Doctoral Programs Integrate Their Degree and Family?'
- 'Identifying At-Risk Online Learning by Psychological Variables Using Machine Learning Techniques'
- 'Evaluating Online Course Quality: A Study on Implementation of Course Quality Standards'

**Section II**

- 'A State-wide Study Perceptions of Directors on the Availability of Online Student Support Services of Postsecondary Institutions'
- 'The Development and Validation of the Distance Doctoral Program Integration Scale'
- 'A Synopsis of Online Testing Integrity in a General Education Math Course: A Conventional Study.'
- 'A Multi-Institutional Study of Factors Influencing Faculty Satisfaction with Online Teaching and Learning'
- 'Provisional Development for Online Teaching: A Literature Review'.

[ISSN: 2472 – 5730]

**Henry Stewart Publications**, Management e-Journal collection incl. *Journal of Education Advancement & Marketing*.

**The Open Education Research Hub** (OER Hub), and

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

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## e-Book Review

### **Managing Diversity and Inclusion in the Real Estate Sector**

Clack A and Gabler J (2019) *Managing diversity and inclusion in the real estate sector* [e-book], Oxon: Routledge. e-ISBN-13: 9780429428975

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

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

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

### **Adding some Tec-Variety: 100+ Activities for Motivating and Retaining Learners Online**

Bonk C J, and Khoo E R (2014) *Adding some Tec-Variety: 100+ Activities for Motivating and Retaining Learners Online* [e-book]. CreateSpace Independent Publishing Platform, e-ISBN-13: 9781496162724

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 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.

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### [Access the free online book \*Adding Some TEC-VARIETY\*](#)

Please note: The authors have made an online version of this work available under a [Creative Commons Attribution-Non-commercial-Share-Alike 3.0 Licence](#).

## **Studying at a Distance**

Talbot C (2010) *Studying at a Distance* [e-book]. Maidenhead: 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.

## **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 book to DOAB

### [Access the Directory of Open Access Books \(DOAB\)](#)

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## **UCEM e-Library Portrait**



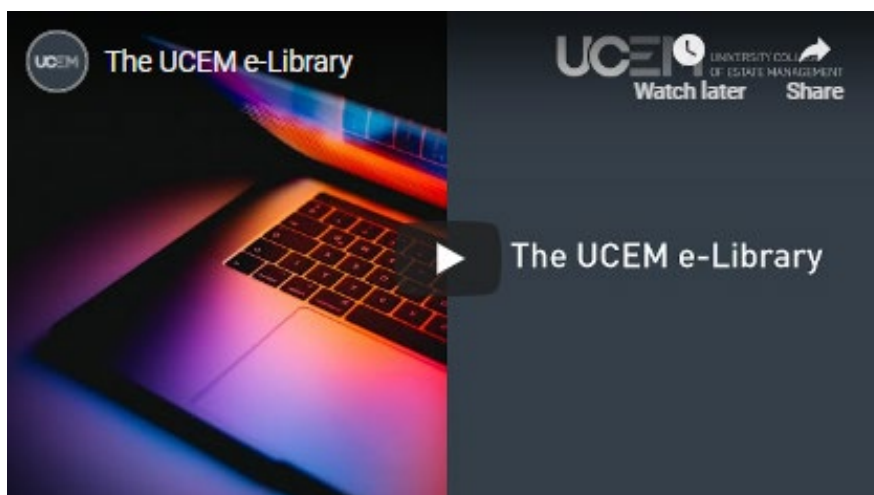
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At UCEM, we recognise that in an information-rich age and when everyone is pressed for time, it can be a challenge to find good-quality information when you need it.

Whether you are obtaining a qualification, undertaking CPD or researching a particular field, having access to a well-equipped library is essential.



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The UCEM e-Library (accessed through the Virtual Learning Environment - VLE) is a comprehensive and valuable online resource, enabling students to access a wealth of subject-specific and credible information to support them throughout their studies and career development.

### The aim of the e-Library

The aim of the e-Library is to:

- disseminate information, share good practice, and promote current awareness to assist in underpinning written work,
- add value and depth to our students' study experience, and
- support the continuing professional development of all those working and aspiring to work in the built environment.

### What resources are available in the UCEM e-Library?

The e-Library is made up of 11 sections and provides students with around the clock access to online searchable databases from key industry and educational sources, thousands of journals, books, and resources, UCEM's entire collection of study materials and published work and UCEM's dissertation library.

#### The sections that make up the UCEM e-Library:



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**Resources available within the UCEM e-Library include:** Up-to-date information and online searchable databases from-

**Key educational sources** that include- Taylor and Francis Online, Ingenta Connect, Henry Stewart Publications and HS Talks, JustisOne, Westlaw EDGE UK, EBSCO Business Source Premier, Emerald Insight - access to around 2600 eBook titles and their entire 'Property Management and the Built Environment' collection of journals, and

**Industry-specific sources** that include- IHS's Construction Information Service, *Estates Gazette* digital journal and Estates Gazette Interactive (EGi), RICS's BCIS – Building Cost Information Service and ISURV online information service, NEC - New Engineering Contract Academia, BSRIA – Building Services Research and Information Association, and more;

### **Where to find help - Overwhelmed by the sheer amount of information out there?**

The e-Library is here to help make finding up-to-date, credible, and relevant information easier. Remember: "A Librarian is a powerful search engine with a heart, that listens and understands the library and information requirements of others and provides a response in a format that suits their needs", say Lucy Roper, UCEM Information Governance Manager and who can be contacted on the [library@ucem.ac.uk](mailto:library@ucem.ac.uk) email address.

Not only do libraries provide us with books to read, but they are valuable tools and resources. The UCEM e-Library is continually striving for improvement and changing to meet the demands of today's technology and ever-expanding volumes of knowledge creation.

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## **Student Career Services**

### **The UCEM Career Services**

The UCEM Career Services 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-judgmental and impartial.

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## **Building Better Property Professionals**

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.

### **This month ([January 2021](#)) the Hot Top Highlight – RICS Update Spring 2021 – The Independent Review of Real Estate Investment Valuations**

In this latest blog, Property Elite take at three key RICS updates for the Spring 2021 RICS APC and AssocRICS assessments. These are

- RICS independent review of real estate investment valuations – candidates undertaking the Valuation competency should be aware of this.
- RICS Covid-19 Recovery Business Plan 2020-2021 – all candidates should be aware of this in relation to the Business Planning and Ethics, Rules of Conduct and Professional Competencies.
- Changes to RICS governance structure – all candidates should be aware of this in relation to Ethics, Rules of Conduct and Professional Competency.

This is essential reading for all RICS APC and AssocRICS candidates, irrespective of region, route, or pathway.

**What is the RICS independent review of real estate investment valuations?** The RICS have launched their independent review of real estate investment valuations. This is in response to 'structural shifts in investor and occupier demand for real estate- many accelerated by the impacts of COVID-19 – resulting in changing market, public and regulatory expectation of valuers.'

### **Further details of the RICS Independent Review of Real Estate Investment and Valuations are available on the RICS Website.**

### **What is the RICS Covid-19 Recovery Business Plan 2020-2021?**

In response to the Covid-19 pandemic, RICS have published their Recovery Business Plan 2020-2021: A global professional body fit for the 21<sup>st</sup> century shaping the built and natural environments.

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**This RICS Covid-19 Recovery Business Plan 2020-2021 updates the former RICS Business Plan 2018-2021 and can be downloaded via the RICS website.**

**What changes have been made to RICS governance structure?**

2020 saw changes to the structure of governance at RICS. The aim of the changes was to streamline governance and public trust in the procession, through 'introducing more diverse and global expertise, alongside increased independent-led oversight of our standards and their enforcement.'

**Lucy's Top Tip** – If you are planning to sit your RICS APC/AssocRICS, make sure you are aware of Property Elite's APC Support services, including submission reviews, question packs, revision quizzes and e-mock interviews.

**Note:** The author of most of these blogs, 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.

**Access Property Elite's 'Building Better Property Professionals', Latest Blogs**

**Other related web-links**

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

**TARGETjobs** – All TARGETjobs graduate career guides and directories are available for you to view online and download for future reference and include **Property 2020**, **Engineering 2020**, and **Careers Survival Pack**.

**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.

**Access to: RICS Careers** – What is surveying? See how surveyors shape our communities and tackle global issues like climate change – and discover how you can improve the world around you.

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## Building People



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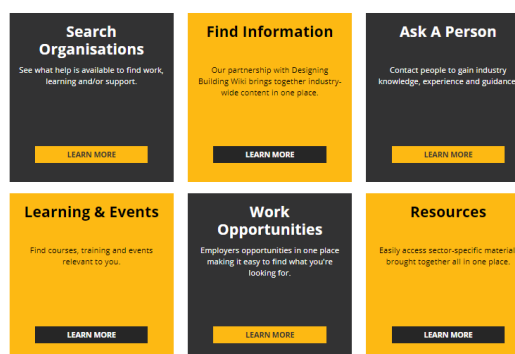
### Enabling connections for a competent, diverse, and valued built environment workforce

The aim of 'Building People' was to create a technology platform and collaborative network, that enables connections and seeks to reduce the skills shortages across the Built Environment.

In 2018 UCEM's widening participation ambitions were boosted after acquiring the 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 the skills gap via an online platform, is now a subsidiary of UCEM.

### People Wiki

#### What are you looking for?



© Building People 2020

Building People and Designing Buildings Wiki have launched People Wiki, a free, open access knowledge sharing platform for diversity and inclusion, skills and careers, and social value.

The UK needs to build, but there is a shortage of competent and experienced workers, and the workforce we have lacks diversity. Building People joins the dots to help people find employers, opportunities, and resources, and to help employers engage with a more diverse range of talent.

The launch of People Wiki is a crucial part of Building People's ambition to create a single platform that brings together a multitude of previously fragmented information, knowledge, resources, opportunities and needs focused on diversity and inclusion, skills

and careers, and social value. This platform is now live and provides users with options to find organisations that can support them with built environment careers, as well as access to information and resources. In September the platform will expand to include directories that bring together events, courses, and work vacancies (with an initial prototype focus on the surveying profession).

People Wiki has been created as part of Designing Buildings Wiki and is fully linked to its 10,000 existing articles and easily accessible by its 7.5 million annual users. This collaboration with an established and respected industry knowledge base will help Building People achieve its vision of a built environment that improves social and economic value by being better connected, more diverse and more inclusive

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## UCEM Sustainability Hub

UCEM has a Sustainability Hub within the VLE e-Library where you will find interesting resources, news, articles, projects and publications which support and information 'future skills' for sustainability within the construction, surveying, and property industries.

Sustainability supports UCEM vision and core purpose to provide truly accessible, relevant, and cost-effective education, enabling students to enhance careers, increase professionalism and contribute to a better built environment.

### 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. The BRE provides leading edge information and advice on all aspects of sustainable that include – Sustainable construction of buildings, Communities, Infrastructure, Sustainable organisations, Materials, products and services, Waste management, Energy management services, and Training and publications.

[Access BRE Sustainability](#)

### 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.

[Access the Routledge Sustainability Hub](#)

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## **The Green Agenda**

Within the Savills Market Trends – ‘Real estate investment in 2021: global outlook’ (mentioned earlier within this issue of *Knowledge Foundations*) they covered ‘The Green Agenda’ –

Despite the challenges of 2020, the rising importance of environmental, social and governance (ESG) credentials for investors has continued to grow.

Across the globe, governments are making ‘climate emergency’ declaration and commitments to meeting net zero carbon in certain timeframes. To honour these commitments, new investment into green technology, energy and much more has been announced but also an increasing amount of regulation.

Real estate is under the spotlight as the built environment accounts for 40% of carbon emissions across the world. This will present challenges but it’s also an opportunity for real estate investors to make a significant difference.

[Read the Market Trends – ‘Real estate investment in 2021: global outlook’, in full.](#)

## **China Dialogue – Policy briefing: EU-China climate engagement**

- This briefing examines the policies driving decarbonisation in the EU and China, and the synergies and gaps that are shaping their cooperation.

[Access China Dialogue reports online.](#)

## **QSAND and the Sustainability Goals**

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. Quantifying Sustainability in the Aftermath of Natural Disasters (QSAND) is a self-assessment tool to promote sustainable approaches and contributing to aid the achievement of several of these 17 goals in disaster affected global communities.

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## QSAND and the Sustainability Goals



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

### **Note: Use of Wikis 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 an encyclopaedia (which include 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 subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journals 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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## Information Governance

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



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## Information Governance:



© 2020 iStockphoto LP, Royalty free image

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

## Data Protection

With new technologies constantly emerging and us finding ourselves moving further into an ever more digital direction, our personal data, how it is used and who has access to it becomes a growing and global concern for all.

The General Data Protection Regulation (GDPR) was the first legislative change in recent years to address these concerns, with a broad aim to invoke a cultural shift in the way organisations manage personal data.

Further information, advice and guidance on Data protection, GDPR and more can be found at the Information Commissioner's Office (ICO), the UK's independent authority set up to uphold information rights in the public interest, promoting openness by public bodies and data privacy for individuals.

[Access the Information Commissioner's Office website](#)

## Latest Data Protection News

### GDPR – What's new?

The Information Commissioner's Office (ICO) website has a 'What's new' section that is updated on a regular basis to highlight and link to any changes as they occur, for example:

**GDPR – What's new? [January 2021]** – The ICO have published an Updated BCR communication following the EU-UK Trade and Co-operation Agreement to the International transfers after the UK exit from the EU Implementation Period.

December 2020 - The ICO published the new [Data Sharing Code of Practice](#), alongside a [data sharing information hub](#) with further resources and support.

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In addition, the ICO published detailed guidance on [sharing personal data with law enforcement authorities](#), and detailed guidance on [data sharing and reuse of data by competent authorities for non-law enforcement purposes](#).

November 2020 - The ICO published detailed guidance on [criminal offence data](#).

September 2020 - The [ICO published the Accountability Framework](#), which provides detailed guidance on complying with the accountability principle.

February 2020 – The ICO published detailed guidance on [codes of conduct](#) and [certification schemes](#).

[Access the Information Commissioner's Office 'What's new?' section of their website](#)

**ICO Latest News [January 2020] -**

**January 2021 – Information Commissioner looks ahead to 2021**

The ICO's immediate focus remains supporting organisations through the impacts of COVID-19. The ICO have prioritised providing [advice and support on data protection related aspects of the pandemic](#) since the start, and will continue to do so, adjusting and responding to the new challenges the country will face until, well, 'all this is finished'. That work includes protecting people's rights and making sure data protecting is considered at the earliest stage of any innovations.

[Maintaining data flows for a digital world](#) – Information Commissioner Elizabeth Denham looks at the data protection aspects of the recently agreed UK-EU trade agreement.

**December 2020 – ICO calls on UK businesses to prepare to keep data flowing at the end of the transition period.**

The Information Commissioner (ICO) is calling on the UK's businesses to check whether they are impacted by data protection law before the end of the UK's transition period with the EU on 31 December 2020.

[Read the article, 'ICO calls on UK businesses to prepare to keep data flowing at the end of the transition period', in full](#)

**November 2020 - UK political parties must improve data protection practices**

The ICO has set out how seven of the UK's political parties need to improve the way they handle people's personal data after assessing how they manage data protection.

[Read the article, 'UK political parties must improve data protection practices', in full](#)

**August 2020 - Global privacy expectations of video teleconference providers**

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Data protection and privacy authorities from around the world have [published on 21 July 2020 an open letter](#) to video teleconferencing companies, reminding them of their obligations to comply with the law and handle people's information responsibly.

The Covid-19 pandemic has resulted in a sharp uptake in the use of video teleconferencing software, increasing risks around the collection and use of personal information. The open letter provides video teleconferencing companies with principles to help them identify and address some of the key privacy risks, and better protect people's personal information.

[Read the article, 'Global privacy expectations of video teleconference providers', in full](#)

**Further guidance provided by the ICO.**

- [Freedom of Information Self-assessment toolkit](#) launched in 2020 helps identify gaps in compliance
- Further updates have been made to [guidance for handling Subject Access Requests](#) including
- a [step-by-step guide for small businesses](#)
- [Building a controller to controller contract](#) + template contract with guidance

[Read the Blog: 'Access to information: driving change through education, engagement and enforcement', in full](#)

## Copyright

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

Please note: if there is something you really want to use for learning materials and someone else owns the copyright ... [permission must be sought!](#)

The copyright owner may wish to charge you, but often they just appreciate you asking them if they are happy for you to acknowledge their work and inform them of how the information will be used and who it will be circulated to".

*Source:* Salmon, Prof. G., (2013), *E-tivities*, London: Routledge

## 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 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.

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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.

**Note:** UCEM holds a CLA 'Higher Education Photocopying and Scanning Licence'

[Access the Copyright Licensing Agency website for further information](#)

### **CLA Title Search tool**

The [CLA Title Search tool](#) 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

[Check permission at CLA Higher Education Licence.](#)

[Introducing a new CLA Step-by-Step Guide and Interactive Toolkit for those checking permissions within their licence.](#)

### **Latest Copyright News**

#### **Article 13: UK will not implement EU copyright law**

- Universities and Science Minister Chris Skidmore has said that the UK will not implement the EU Copyright Directive after the country leaves the EU.

Several companies have criticised the law, which would hold them accountable for not removing copyrighted content uploaded by users if it is passed.

**EU member states have until 7 June 2021 to implement the new reforms, but the UK will have left the EU by then.**

Copyright is the legal right that allows an artist to protect how their original work is used.

[Read the full BBC Technology news item 'Article 13: UK will not implement EU copyright law'](#)

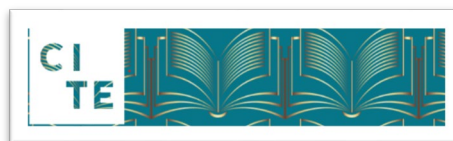
#### **Government Guidance – Changes to copyright law from 1 January 2021**

- This guidance covers the impacts on UK right holders, businesses, cultural heritage institutions and consumers.  
Note: It is not legal advice.

[Access the GOV.UK 'Changes to copyright law from 1<sup>st</sup> January 2021', in full.](#)

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## Keeping abreast of the latest developments in Information Governance



© CLA 2020

As UCEM Information Governance Manager I regularly attend the Copyright Licensing Agency (CLA) Copyright & Information Technologies in Education (CITE) Forum.

The CITE Forum is a place to discuss the CLA's technology and licence offerings (such as the Digital Content Store) but also an opportunity for Higher Education Institute's to network, share and disseminate relevant copyright information. The Forum meets twice a year and publishes a biannual magazine for the CITE community containing the latest developments.

Copyright Licensing Agency (2019) '[CITE – 2020 Vision](#)', [CITE Magazine, Winter 2019, No. 3](#) [online].

Copyright Licensing Agency (2019) '[A CITE to behold](#)', [CITE Magazine, Summer 2019, No. 2](#) [online].

Copyright Licensing Agency (2018) [CITE Magazine - A biannual magazine for the CITE Community, Winter 2018, No. 1](#) [online].

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

Part of my role as involves keeping abreast of the latest developments and benchmarking the work I do against that of others. I also undertake regular Continuing Professional Development (CPD), and an element of this is attending the CITE Forum attending events and conferences provided through my professional body, CILIP – The Library and Information Association, and others.

### **CILIP's National Copyright Conference 2020**

Despite the current lockdown due to COVID-19, CILIP in association with Naomi Korn Associates, as well as great speakers and further experts in the field in attendance, made it happen albeit online. The national annual Copyright Conference provided an opportunity to delve deeper into copyright issues and gain a better understanding of how policy impacts on libraries and the information sector.

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Sessions covered broad copyright impact for the profession incl.

- **Taking Rights Away? - Reconsidering obstacles to copyright reform.**

In policy debates in copyright, it is often argued that changes to the copyright legislation which may be favourable to librarians, information professionals and the users of their services, would deprive rights holders of established property rights. Such arguments were used to prevent the resolution of the '2039 problem' in unpublished works. In this keynote paper, Jonathan Griffiths, Professor of Intellectual Property Law, Queen Mary University of London argues that, when scrutinised carefully, these claims are often less convincing than they initially appear.

- **The EU Directive: Ground-breaking, Clarifying or Pointless**

The EU Copyright Directive: What does this mean for libraries and the cultural heritage sector? Positioning new directive in the context of existing EU legislation and case law Dr Andrea Wallace, Lecturer in IP, Exeter University, and Anthony Misquitta, General Counsel V&A discussed how the new Directive will affect libraries and cultural heritage organisations.

- **Copyright Risk Assessment Framework**

The National Libraries of Wales and Scotland have jointly developed and adopted a copyright risk acceptance framework. The framework is a pragmatic risk assessment and decision-making tool to aid the digitisation of collection material (Original Objects) and the making available of digitisations (Digital Surrogates). Fred Saunderson, Rights and Information Manager, National Library of Scotland.

- **Plan S from a Publishers Perspective: The benefits for Librarians and Academics**

The push to Open Access has created a huge change within the industry, as well as opportunities, for academics, publishers, and librarians. Sarah Greaves, PhD, will discuss Plan S from an Open Access publisher's perspective.

- **Copyright in the Courts**

The session will consider a selection of recent, and not so recent judgements on copyright from UK courts, the Court of Justice of the EU and elsewhere as they affect librarians, archivists, and other information professionals. Tim Padfield, Author, *Copyright for Archivists and Records Managers*

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- **Ensuring every pound and every licence advances Open Access: Transformative agreements,**

Libraries entering into transformative agreements with publishers changes the business model underlying scholarly journal publishing, enabling more open access. In this session Lorraine Estelle, Director, Information Power Limited (IPL) shared a free transformative agreement toolkit, and insight into how these can be implemented by a wide array of libraries.

- **CLA Licensing Update for Librarians and Information Professionals**

James Bennett, Head of Rights and Licensing, Copyright Licensing Agency updated attendees on the latest enhancements to the licences (esp. over this COVID-19 pandemic period and extending limits for licence holders) and workflow tools offered by the CLA and CLA Licence Plus.

During the day we were also updated about pertinent copyright issues incl. Unlocking sound heritage; Exploiting your library and information assets; Copyright Life Hacks for Librarians, in 'quick fire' five- minute lightening talks.

[\*\*#CILIPCopy20 / #copyright\*\*](#)

## **The Challenges of Remote Working at Present**

For those who work remotely all or part of the time already, you or your employer [depending on whether you are self-employed / freelancer or an employee] will have safeguards in place that enable you to operate securely when handling commercially sensitive or others' third party data. The difference, in March 2020, is that at very short notice, organisations are having to move staff to homeworking often with literally hours' notice as the Government COVID-19 instructions are issued.

There are growing numbers of tips and survival guides online that include: Information Commissioner's Office (ICO) [Data protection and coronavirus: what you need to know](#).

### **The challenges of remote working at present and point to consider from a data privacy perspective**

Provided within this article are points to consider from a data privacy perspective that include:

**Have a clear statement to all staff** stressing that "The protection of personal data that we hold, and use is important to us and must be handled at all time in a way that is compliant with data protection law and our Data Protection and Privacy policies. While we have to adapt to comply with the official guidance, we will adjust our working processes to allow us to deliver our services. These are time limited instruction that will be kept under review. At the end of the period then all data that is held temporarily on



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personal devices as a direct result of this exceptional times, will be deleted.” (Tullo 2020)

**The challenges of remote working at present and points to consider from a data privacy perspective cont.**

1. **Set out what use of data**, contact lists, customer documents are being allowed.
2. As part of this exceptional response to homeworking **keep a full record of where staff are working from and what equipment they are using.**
3. **State that you have assessed the best way of ensuring homeworking efficiency** and are proposing that personal devices and mobile phones can be used. That you will review this [weekly seem sensible at present] in line with experience and how staff report it is working.
4. **Reissue and emphasis your usual security arrangements –** Virus and password protection, not leaving data visible to others, having a PIN code, or not sharing their device with others in their family or household
5. **Take care to be aware where data is being stored**, even if temporary so that the security risk is managed and assessed. For the **weekly reviews** – have your Senior Leadership Team note the number of staff using personal devices, any queries or issues they are finding and demonstrate that you are monitoring the situation and are flexible in closing it down if any specific concerns arise.
6. Choose your collaboration tool of choice and consider recording online meetings and note actions especially where team members are geographically spread out and where broadband speeds and kit may vary in quality.
7. You might also consider having a standard introduction for homeworking staff to explain that they are homeworking and not in the office, so callers understand the position.
8. This is where a nominated Data Protection Officer [DPO] or Data Officer can support the senior team in the messaging to colleagues.

*Source:* Tullo C, OBE (2020) '[The Challenges of Remote Working at Present](#)'. © [Naomi Korn Associates](#), 2020. Some Rights Reserved. The text is licensed for use under the Creative Commons Attribution Share Alike Licence (CC BY SA).

**Regarding UCEM we have followed these pointers:**

(i) A clear statement went to staff, and UCEM has a designated area within their central SharePoint site for Business Continuity Planning (BCP) that has the following folders containing

- Official Communications [Internal and External]
- Human Resources (HR) guidance and support
- Information Technology (IT) technical support, guidance, and documents

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Data Protection guidance (incl. a new guidance note entitled, 'Processing Personal data when remote working'.

- The **UCEM Data Protection and Privacy Policies** have been updated and should be read in conjunction with IT Policies).
- & Hints and tips for working from home.

(ii) A retention and destruction schedule is in place that collates lists of data used within respective teams and departments; (iii) A register is kept of where staff are working from and equipment used; (iv) Regular online meetings and weekly All-staff keep everyone updated and ensuring regular communication; (v) IT provide regular updates and guidance; (vi) GDPR 2020 training has been launched to re-enforce the importance of knowing how data is used and where it is being stored, even if temporary so that risk is managed and assessed; (vii and viii) online equipment and collaboration tools are well established at UCEM as an online education provider, but are regularly monitored; (ix) As mentioned above, hints and tips for working from home are provided, & (x) UCEM has a designated Data Protection Officer (DPO).

Please note: There are regular updates -

- On the **UCEM Website**,
- **VLE Help Page** (for students), and for all
- within the **Supported Online Learning > e-Library** current awareness services, incl.
  - Information blog and
  - ***Knowledge Foundations***.

## #BE Informed

- A short **UCEM e-Library video** (used within UCEM Marketing, **Social Media business channels i.e. LinkedIn** to promote the e-Library, *Knowledge Foundations*, regular information blogs, and more).

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## A to Z of useful references and web-links:

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**N - O - P - Q - R - S - T - U - V - W - X - Y - Z**

### A

**Advance HE** (Previously HEA – Higher Education Academy) is dedicated to helping higher education shape its future. Providing insight, enhancing organisational performance, developing, and connecting people, and accrediting achievements. Advance HE [online]. Further information is available at: [www.advance-he.ac.uk](http://www.advance-he.ac.uk) [accessed 23 January 2021]

**American Society of Civil Engineers** (ASCE) Civil Engineering database provides free access to over 80 thousand abstracts taken from ASCE publications since 1973. ASCE [online]. Further information is available at: [www.asce.org](http://www.asce.org) [accessed 23 January 2021]

**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. ARCOM [online]. Further information available at: [www.arcom.ac.uk](http://www.arcom.ac.uk) [accessed 23 January 2021]

**ARCOM Abstracts database** – contains open access of every ARCOM conference paper since 1997 and is now a major resource for all active researchers.

**ARCOM Newsletters** - contains the latest news from the industry.

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### B

**BBC Education** [online]. Further information available at: [www.bbc.co.uk/news/education](http://www.bbc.co.uk/news/education) [accessed 23 January 2021]

**BBC Search** [online]. Further information available at: [www.bbc.co.uk/search](http://www.bbc.co.uk/search) [accessed 23 January 2021]

**BIDSTATS** [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: <https://bidstats.uk/> [accessed 23 January 2021]

**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 University of Cambridge, **Centre for Digital Built Britain (CDBB)** [online]. Further information is available at: [www.cdbb.cam.ac.uk/AboutDBB/FAQs](http://www.cdbb.cam.ac.uk/AboutDBB/FAQs) [accessed 23 January 2021]. 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 at: <http://bimforum.org> [accessed 23 January 2021]

**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/BOMA/Research-Resources](http://www.boma.org/BOMA/Research-Resources) [accessed 23 January 2021]

**British and Irish Legal Information Institute** (BAILLI) Case Law Search [online]. Further information available at: [www.bailii.org/form/search\\_cases.html](http://www.bailii.org/form/search_cases.html) [accessed 23 January 2021]

**British Council of Shopping Centres** (BCSC) 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.**

**British Institute of Facilities Management (BIFM)** – The BIFM is now the Institute of Workplace and Facilities Management (IWFM).

**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. BPF [online]. Further information available at: [www.bpf.org.uk/en/index.php](http://www.bpf.org.uk/en/index.php) [accessed 23 January 2021]

**Building Conservation.com** [online] – Information resources for conservation, restoration, and repairs. Further information is available at: [www.buildingconservation.com](http://www.buildingconservation.com) [accessed 23 January 2021]

**Building Conservation.com Articles directory by subject** [online]. Available at: [www.buildingconservation.com/articles/articles.htm](http://www.buildingconservation.com/articles/articles.htm) [accessed 23 January 2021]

**Building Design Directory** [online] – provides construction and environmental products / services / information for Architects, Engineers and Facility Managers. Further information is available at: [www.buildingdesign.co.uk](http://www.buildingdesign.co.uk) [accessed 23 January 2021]

**Building Engineer** [online] – Building Engineer website covers news and insights from the following topics: Building & Fire Safety; Business & Management; Construction & Building Materials; Energy & Sustainability; Health, Safety & Wellbeing; Policy & Regulations; Refurbishment; Technology & Digital Construction. Further information is available at: [www.buildingengineer.org.uk/](http://www.buildingengineer.org.uk/) [accessed 23 January 2021]

**Building People** - a technology platform and collaborative network, that enables connections and seeks to reduce the skills shortages across the Built Environment. Building People [online]. Further information is available at: [www.buildingpeople.org.uk](http://www.buildingpeople.org.uk) [accessed 23 January 2021]

**Building Research Establishment** (BRE) [online] is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries. Further information available at: <https://bregroup.com/about-us> [accessed 23 January 2021]

**BRE A-Z of BRE Services** (from Accreditation to Zero Carbon) [online]. Further information is available at: [www.bregroup.com/a-z](http://www.bregroup.com/a-z) [accessed 23 January 2021]

**BRE Case Studies** [online]. Further information is available at: [www.bre.co.uk/podpage.jsp?id=1744](http://www.bre.co.uk/podpage.jsp?id=1744) [accessed 23 January 2021]

**Building Services Research and Information Association** (BSRIA) [online]. BSRIA is a test, instrumentation, research, and consultancy organisation, providing specialist services in construction and building services. Available at: [www.bsria.co.uk](http://www.bsria.co.uk) [accessed 23 January 2021]

**Building talk** [online]. Available at: [www.buildingtalk.com](http://www.buildingtalk.com) [accessed 23 January 2021] *Building Talk* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

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## C

**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. CPRE [online]. Available at: [www.cpre.org.uk](http://www.cpre.org.uk) [accessed 23 January 2021]

**CBRE Research and Resources** - CBRE sets the standard for global real estate research by providing clients with accurate and insightful market knowledge. CBRE [online]. Available at: [www.cbre.com/research-and-reports](http://www.cbre.com/research-and-reports) [accessed 23 January 2021]

**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. CPRE Resources [online]. Available at: [www.cpre.org.uk/resources](http://www.cpre.org.uk/resources) [accessed 23 January 2021]

**Centre for Architecture and Built Environment Research** (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] and available at: [www1.uwe.ac.uk/et/research/caber.aspx](http://www1.uwe.ac.uk/et/research/caber.aspx) [accessed 23 January 2021]

**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](http://www.cpwr.com) [accessed 23 January 2021]

**Centre for Digital Built Britain** (CDBB) 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](http://www.cdbb.cam.ac.uk/AboutDBB) [accessed 23 January 2021]

**Chartered Association of Building Engineers** (CABE) is a member-focused non-profit organisation that brings like-minded professionals together. CABE shows knowledge, raises standards and developments professionals enabling a professional construction sector that works to create better, safer, and more sustainable buildings that enhance people's lives. CABE [online]. Available at: <https://cbuide.com/> [accessed 23 January 2021]

**Chartered Institute of Building** (CIOB) [online]. 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. Available at: [www.ciob.org](http://www.ciob.org) [accessed 23 January 2021]

**China Dialogue** [online] – China and the world discuss the environment. Available at: [www.chinadialogue.net](http://www.chinadialogue.net) [accessed 23 January 2021]

**CIOB Library** Incl. Library and Information Services [online]. Available at: [www.ciob.org/media-centre/library](http://www.ciob.org/media-centre/library) [accessed 23 January 2021]

**CIOB's Construction Manager journal** [online]. Available at: [www.constructionmanagemagazine.com](http://www.constructionmanagemagazine.com) [accessed 23 January 2021]

**CIOB's Global Construction Review journal** [online]. Available at: [www.globalconstructionreview.com/](http://www.globalconstructionreview.com/) [accessed 23 January 2021]

**CIOB's Policy and Public Affairs portal** [online]. Available at: <http://policy.ciob.org> [accessed 23 January 2021]

**The CIT-eA Project Creating Innovative Technology – Enhanced Assessments** – a research project that explored ways to increase the amount of assessments in Further and Higher Education using technology. The CIT-eA Project [online]. Available at: <http://citea.digitalinsite.co.uk> [accessed 23 January 2021]

**Cities / buildings images database** [online]. Available at: [www.washington.edu/ark2](http://www.washington.edu/ark2) [accessed 23 January 2021] is a collection of images of buildings and cities from around the world aimed at students, researchers and educators.

**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](http://www.C-Link.com) [accessed 23 January 2021]

**College of Estate Management (CEM)** – See University College of Estate Management (UCEM)

**Commercial Real Estate Services** (CBRE) is the world's largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally. CBRE [online]. Available at: [www.cbre.co.uk](http://www.cbre.co.uk) [accessed 23 January 2021]

**Community-Led Housing** (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 23 January 2021]. 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.

**Confederation of British Industry** (CBI) is the UK's premier business lobbying organisation, providing a voice for employers at a national and international level. CBI [online]. Available at: [www.cbi.org.uk](http://www.cbi.org.uk) [accessed 23 January 2021]

**Conference on Training in Architectural Conservation** (COTAC) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals, and homeowners. COTAC [online]. Available at: <http://ihbconline.co.uk/cotac2> [accessed 23 January 2021]

**COTAC Digital Bibliography** [online]. Available at: [http://cotac.global/digital\\_bib/](http://cotac.global/digital_bib/) [accessed 23 January 2021]

**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. Constructing Excellence [online]. Available at: <http://constructingexcellence.org.uk/> [accessed 23 January 2021]

**Construction Enquirer** is a news website in construction. Construction Enquirer [online]. Available at: [www.constructionenquirer.com](http://www.constructionenquirer.com) [accessed 23 January 2021]

The **Construction Index** [online] provides a wide range of information services for the UK construction industry, that include a 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](http://www.theconstructionindex.co.uk) [accessed 23 January 2021].



**Construction Industry Council** (CIC) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry. CIC [online] and available at: <http://cic.org.uk> [accessed 23 January 2021]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: [www.ciria.org/default.aspx](http://www.ciria.org/default.aspx) [accessed 23 January 2021]

**Construction Industry Training Board** (CITB) is the training board for the construction industry and partner in Construction Skills, the Sector Skills Council. CITB [online]. Available at: [www.citb.co.uk](http://www.citb.co.uk) [accessed 23 January 2021]

**Construction Manager** is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: [www.constructionmanagemagazine.com/](http://www.constructionmanagemagazine.com/) [accessed 23 December 2020]

**Construction News** [online]. Available at: [www.constructionnews.co.uk](http://www.constructionnews.co.uk) [accessed 23 January 2021]

**Construction Products Association** (CPA) represents the UK's manufacturers and distributors of construction products and materials. Construction Products Association [online]. Further information is available at: [www.constructionproducts.org.uk](http://www.constructionproducts.org.uk) [accessed 23 January 2021]

**Construction Project Information Committee** (CPIC), 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. CPIC [online]. Available at: [www.cpic.org.uk](http://www.cpic.org.uk) [accessed 23 January 2021]

**Construction and Property Research Centre** (CPRC), University of the West of England (UWE) – the CPRC's research activity is focused around the three inter-related stages of the built environment lifecycle, namely design, construction, and maintenance. Note: The UWE **Centre for Architecture and Built Environment Research** (CABER) now incorporates the CPRC.

**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. Contractors World [online]. Available at: <http://cwmags.com/> [accessed 23 January 2021].

**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. Note: From August 2019 Copac was replaced by **Jisc's Library Hub Discover**.

**Council for British Archaeology** (CBA) is an independent charity bringing together members, supporters, and partners to give archaeology a voice and safeguard it for future generations. Archaeology for all [online]. Available at: <http://new.archaeologyuk.org> [accessed 23 January 2021]

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## D

**Delta T** [online] is the Building Services Research and Information Association's quarterly journal.

**Designing Buildings Wiki** [online] and available at: [www.designingbuildings.co.uk/wiki/Home](http://www.designingbuildings.co.uk/wiki/Home) [accessed 23 January 2021] is 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](http://www.designingbuildings.co.uk/wiki/Student_resources) [accessed 23 January 2021] has a wide range of resources aimed at students of the built environment, as shown here.

**Designing Buildings Wiki – Construction industry acronyms** [online] and available at: [www.designingbuildings.co.uk/wiki/Construction\\_industry\\_acronyms](http://www.designingbuildings.co.uk/wiki/Construction_industry_acronyms) [accessed 23 January 2021] providing a list of commonly used construction industry acronyms.

The **Design Council** [online] champions great design that improves lives and makes things better and available: [www.designcouncil.org.uk](http://www.designcouncil.org.uk) [accessed 23 January 2021]. See also **Inclusive Design Hub for the Built Environment** (a project of The Design Council).

**Directory of Open Access Books** (DOAB) is a service which harvests details of academic and mainly peer-reviewed books published on open access. DOAB [online]. Available at: [www.doabooks.org/doab](http://www.doabooks.org/doab) [accessed 23 January 2021]

**Directory of Open Access Journals** (DOAJ) covers all open access scientific and scholarly journals, using a quality control system to guarantee the content. DOAJ [online]. Available at: <https://doaj.org> [accessed 23 January 2021]

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## E

**Education and Employers Research** - Online research library marks its tenth anniversary. This online library provides a comprehensive repository of different and effective approaches to employer engagement and careers education. It brings together the latest thinking with selected research published over the past 40 years. Education and Employers [online]. Available at: [www.educationandemployers.org/research-type/research-library](http://www.educationandemployers.org/research-type/research-library) [accessed 23 January 2021]

**The Economics Network** [online] provides publications, events, and other resources to support university teachers of economics throughout the UK and worldwide. Available at: [www.economicsnetwork.ac.uk](http://www.economicsnetwork.ac.uk) [accessed 23 January 2021]

**EngineeringUK** is a not-for-profit organisation, which works in partnership with the engineering community to inspire tomorrow's engineers and increase the number and diversity of young people choosing academic and vocational pathways into engineering. EngineeringUK [online]. Available at: [www.engineeringuk.com](http://www.engineeringuk.com) [accessed 23 January 2021]

**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. EPSRC [online]. Available at: [www.epsrc.ac.uk](http://www.epsrc.ac.uk) [accessed 23 January 2021]

**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. English Heritage [online]. Further information is available at: [www.english-heritage.org.uk](http://www.english-heritage.org.uk) [accessed 23 January 2021]. 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**.

**Estates Gazette** The UK's largest commercial property news team. *Estates Gazette Interactive* [online]. Available at: [www.egi.co.uk](http://www.egi.co.uk) [accessed 23 January 2021] incl. ***Estate Gazette, News from the nationals*** – Round-up of the top property stories with quick links.

**European Real Estate Society** (ERES) was established in 1994 to create an international real estate network between academics and professionals across Europe. ERES [online]. Further information is available at: [www.eres.org](http://www.eres.org) [accessed 23 January 2021].

**ERES Digital Library** [online] and available at: [www.eres.org/index.php/activities/libraryeres](http://www.eres.org/index.php/activities/libraryeres) [accessed 23 January 2021]

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## G

**Great Buildings** [online]. Available at: [www.greatbuildings.com](http://www.greatbuildings.com) [accessed 23 December 2020] 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](http://www.glenigan.com) [accessed 23 January 2021] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

**Global Research Gateway**: CBRE's online resource for real estate research and reports. CBRE Global Research Gateway [online]. Available at: [www.cbre.com/research-and-reports](http://www.cbre.com/research-and-reports) [accessed 23 January 2021]

**Global Construction Review** – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at [www.globalconstructionreview.com](http://www.globalconstructionreview.com) [accessed 23 January 2021]

**The Green Construction Board** (GCB) is a consultative forum consisting of key members of UK construction and property industry. GCB [online]. Further information is available at: [www.constructionleadershipcouncil.co.uk/workstream/sustainability](http://www.constructionleadershipcouncil.co.uk/workstream/sustainability) [accessed 23 January 2021]

**The Guardian, Housing network** – providing insight, advice, and best practice from your community. The Guardian, Housing network [online]. Further information is available at: [www.guardian.co.uk/housing-network](http://www.guardian.co.uk/housing-network) [accessed 23 January 2021]

**The Guardian, Higher Education / Universities** [online]. Further information is available at: [www.guardian.co.uk/higher-education-network](http://www.guardian.co.uk/higher-education-network) [accessed 23 January 2021]

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## H

**Health and Safety Executive** (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. HSE [online]. Available at: [www.hse.gov.uk/index.htm](http://www.hse.gov.uk/index.htm) [accessed 23 January 2021]

**HSE, Health & Safety in the construction industry** [online]. Further information is available at: [www.hse.gov.uk/construction](http://www.hse.gov.uk/construction) [accessed 23 January 2021]

**Heritage Alliance** - The largest coalition of heritage interests in England, the Heritage Alliance is the umbrella body for national and major regional Heritage NGOs. Heritage Alliance [online]. Available at: [www.theheritagealliance.org.uk](http://www.theheritagealliance.org.uk) [accessed 23 January 2021]

**Heritage Update: the online edition** of the fortnightly Heritage Alliance's *Heritage Update* e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update](http://www.theheritagealliance.org.uk/update) [accessed 23 January 2021]

**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. Heritage Help [online]. Available at: <http://heritagehelp.org.uk> [accessed 23 January 2021]

**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 Higher Education funding bodies and by subscriptions and grants. Note: HEA is now **Advance HE**.

**Higher Education Empirical Research (HEER)** Database comprises summaries of the latest published research on a range of topics related to higher education. HEER [online]. Available at: <http://heer.qaa.ac.uk/> [accessed 23 January 2021]

**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](http://www.historicengland.org.uk) [accessed 23 January 2021]

**Historic Environment Local Management (HELM)** - provides accessible information, training, and guidance to decision makers in local authorities, regional agencies, and national organisations whose actions affect the historic environment. Note: All HELM web content on the Historic England website [online] and available at: <https://historicengland.org.uk/services-skills/training-skills/helmtraining> [accessed 23 January 2021].

**Home Builders Federation (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](http://www.hbf.co.uk) [accessed 23 January 2021]

**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 23 January 2021]

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## I

**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](http://www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment) [accessed 23 January 2021]

**INFABODE** connects its community of users with industry information from the Real Estate sector on one customisable online platform. Infabode reduces the amount of time people spend trying to access key information from the Real Estate industry. **INFABODE** [online]. Available at: [www.infabode.com/dashboard](http://www.infabode.com/dashboard) [accessed 23 January 2021]

**Institution of Civil Engineers (ICE)** is a registered charity that strives to promote and progress civil engineering. ICE [online]. Available at: [www.ice.org.uk](http://www.ice.org.uk) [accessed 23 January 2021]

**ICE Virtual Library** [online]. Available at: [www.icevirtuallibrary.com](http://www.icevirtuallibrary.com) [accessed 23 January 2021] is a free database that indexes all ICE journals.

**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. ICDE [online]. Available at: [www.icde.org](http://www.icde.org) [accessed 23 January 2021]

**Institute of Historic Building Conservation** (IHBC) 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. IHBC [online]. Available at: [www.ihbc.org.uk](http://www.ihbc.org.uk) [accessed 23 January 2021]

**Institute of Workplace and Facilities Management** (IWFM) – 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](http://www.iwfm.org.uk) [accessed 23 January 2021]

**IWFM Insight** – discover leading research and resources for the workplace and facilities management profession. IWFM Insight [online]. Available at: [www.iwfm.org.uk/insight](http://www.iwfm.org.uk/insight) [accessed 23 January 2021]

**IWFM News** – discover the latest news affecting the profession and gain expert insight and advice. IWFM News [online] Available at: [www.iwfm.org.uk/news](http://www.iwfm.org.uk/news) [accessed 23 January 2021]

**IWFM Digital Magazine, facilitate** - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: [www.facilitatemagazine.com](http://www.facilitatemagazine.com) [accessed 23 January 2021]

**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. *ITcon* [online]. Available at: [www.itcon.org](http://www.itcon.org) [accessed 23 January 2021]

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## J

**JISC Library Hub Discover** – Library Hub Discover replaces COPAC\* and SUNCAT, offering increased coverage of university libraries along with new facilities and improved response times. Library Hub Discover currently contains 42,397,777 records created from 106,833,532 records contributed by 144 institutions. Jisc Library Hub Discover [online]. Available at: <https://discover.libraryhub.jisc.ac.uk> [accessed 23 January 2021].

**JORUM Archive** – 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 Jorum Archive can be accessed via the JISC website [online]. Available at: [www.jisc.ac.uk/website/legacy/jorum](http://www.jisc.ac.uk/website/legacy/jorum) [accessed 23 January 2021] where you can also gain access to JISC's full digital resources offer.

**Journal of Online Learning and Teaching** (JOLT) - 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.

**JournalTOCs** is the largest, free collection of scholarly Journal Title of Contents (TOCs) [online]. Available at: [www.journaltocs.ac.uk/index.php](http://www.journaltocs.ac.uk/index.php) [accessed 23 January 2021]

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## L

**Leeds Beckett University's – School of the Built Environment, Engineering and Computing** [online]. Further information that include Subject Area Research – 1) Civil Engineering and Building Services Engineering, 2) Planning, Housing and Human Geography, and 3) Surveying,

Construction and Project Management is available at: [www.leedsbeckett.ac.uk/school-of-built-environment-engineering-and-computing/research](http://www.leedsbeckett.ac.uk/school-of-built-environment-engineering-and-computing/research) [accessed 23 January 2021]

**Leeds Beckett University's - Leeds Sustainability Institute** [online]. Further Information is available at: [www.leedsbeckett.ac.uk/leeds-sustainability-institute](http://www.leedsbeckett.ac.uk/leeds-sustainability-institute) [accessed 23 January 2021]

**Leeds Beckett University – The Library** [online]. Available at: <http://libguides.leedsbeckett.ac.uk/home> [accessed 23 January 2021]

**Lexology** is 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](http://www.lexology.com) [accessed 23 January 2021]

**Local Government Association** (LGA) is the national voice of local government. They work with councils to support, promote, and improve local government. LGA [online]. Available at: [www.local.gov.uk](http://www.local.gov.uk) [accessed 23 January 2021]

**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 23 January 2021]

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## M

**Multimedia Educational Resource for Learning and Online Teaching** (MERLOT). The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) developed and provided free access to MERLOT [online]. Available at: [www.merlot.org/merlot](http://www.merlot.org/merlot) [accessed 23 January 2021]. MERLOT is a curated collection of free and open online teaching, learning, and faculty development services contributed and used by an international education community.

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## N

**National Building Information Modelling (BIM) 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/our-tools/nbs-national-bim-library](http://www.thenbs.com/our-tools/nbs-national-bim-library) [accessed 23 January 2021]

**National Building Specification** (NBS) is an integrated global platform for everyone involved in the design, supply, and construction of the built environment. NBS [online]. Available at: [www.thenbs.com](http://www.thenbs.com) [accessed 23 January 2021]

**NBS Knowledge** [online] is available at: [www.thenbs.com/knowledge](http://www.thenbs.com/knowledge) [accessed 23 January 2021]

**National Skills Academy for Construction** (NSAfc) is an industry-led framework supporting clients and contractors to identify, develop and realise employment and skills solutions across construction projects. CITB, NSAfc [online]. Available at: [www.citb.co.uk/national-skills-academy-for-construction](http://www.citb.co.uk/national-skills-academy-for-construction) [accessed 23 January 2021]. Note: It is facilitated by the Construction Industry Training Board (CITB).

**The National Trust** protect historic houses, gardens, mills, coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages, and pubs. The National Trust [online]. Available at: [www.nationaltrust.org.uk](http://www.nationaltrust.org.uk) [accessed 23 January 2021]



**National Trust's Land & landscape** [online]. Available at: [www.nationaltrust.org.uk/land-and-landscape](http://www.nationaltrust.org.uk/land-and-landscape) [accessed 23 January 2021]

**New Civil Engineer** (NCE) a weekly magazine published for the Institution of Civil Engineers (ICE). NCE [online]. Available at: [www.nce.co.uk](http://www.nce.co.uk) [accessed 23 January 2021]

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## O

**Online Learning Consortium** (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. Online Learning Consortium [online] and further information is available at: <http://onlinelearningconsortium.org/> [accessed 23 January 2021]

**OLC's Online Learning** – the official journal of the Online Learning Consortium. *Online Learning* [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 23 January 2021]

**Open Education Resources, Research Hub** – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices. OER Hub [online]. Further information is available at: <http://oerhub.net/> [accessed 23 January 2021]

**Open Praxis** – published by the International Council for Open and Distance Education – ICDE, *Open Praxis* is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education. *Open Praxis* [online]. Available at: <http://openpraxis.org/index.php/OpenPraxis/index> [accessed 23 January 2021]

**Open University (OU) UK** [online] and available at: [www.open.ac.uk](http://www.open.ac.uk) [accessed 23 January 2021]

**Open University (OU) UK, Institute of Education Technology** [online] and available at: [www.open.ac.uk/iet/main](http://www.open.ac.uk/iet/main) [accessed 23 January 2021]

**Organisation for Economic Cooperation and Development (OECD) iLibrary** is the online library of the OECD, featuring its books, papers and statistics and is the gateway to OECD's analysis and data. Note: It replaced SourceOECD. OECD iLibrary [online]. Available at: [www.oecd-ilibrary.org](http://www.oecd-ilibrary.org) [accessed 23 January 2021]

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## P

**Parliament.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. Parliament.UK [online]. Further information is available at: <http://researchbriefings.parliament.uk> [accessed 23 January 2021]

**Planning Advisory Service** (PAS) provide consultancy and peer support, training sessions and online resources to help local authorities understand and respond to planning reform. PAS [online]. Available at: [www.local.gov.uk/pas](http://www.local.gov.uk/pas) [accessed 23 January 2021].

**Planning Officers Society** (POS) is the voice for public sector planning practitioners, pursuing good and effective planning practice within local government [online]. Available at: [www.planningofficers.org.uk](http://www.planningofficers.org.uk) [accessed 23 January 2021]

**The Planning Portal** is the UK Government's online planning and building regulations resource for England and Wales [online]. Available at: [www.planningportal.co.uk](http://www.planningportal.co.uk) [accessed 23 January 2021]

**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. The Prince's Foundation [online]. Available at: <https://princes-foundation.org> [accessed 23 January 2021]

**Property People's Network** (PPN) 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](http://www.ppnonline.co.uk) [accessed 23 January 2021]

**Property Week** – Commercial property news. *Property Week* [online]. Available at: [www.propertyweek.com](http://www.propertyweek.com) [accessed 23 January 2021]

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## R

**Regeneration and Renewal – Placemaking Resource incorporating Regeneration & Renewal magazine** [online]. Available at: [www.placemakingresource.com](http://www.placemakingresource.com) [accessed 23 December 2020]

**Residential Landlord** – an online resource providing Landlord Resources, a Document Download Centre (containing templates and free tenancy agreements to amend and use as required), news and views, advice, and guidance [online]. Further information is available at: [residentiallandlord.com](http://residentiallandlord.com) [accessed 23 January 2021]

**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 is available at: [www.revocommunity.org](http://www.revocommunity.org) [accessed 23 January 2021]

**The Royal Institute of British Architects** (RIBA) is a global professional membership body driving excellence in architecture [online]. Further information is available at: [www.architecture.com](http://www.architecture.com) [accessed 23 January 2021]

**RIBA Library** – Visit the RIBA Library [online]. Available at: [www.architecture.com/contact-and-visit/riba-library](http://www.architecture.com/contact-and-visit/riba-library) [accessed 23 December 2020]

**RIBA Home > Knowledge and resources > Resources > RIBA Plan of Work** [online]. Further information is available at: [www.architecture.com/knowledge-and-resources/resources-landing-page/riba-plan-of-work](http://www.architecture.com/knowledge-and-resources/resources-landing-page/riba-plan-of-work) [accessed 23 January 2021]

**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. RICS [online]. Available at: [www.rics.org/uk](http://www.rics.org/uk) [accessed 23 January 2021]

**RICS > News & Insights** [online]. Available at: [www.rics.org/uk/news-insight](http://www.rics.org/uk/news-insight) [accessed 23 January 2021]

**RICS > Upholding Professional Standards** [online]. Available at: [www.rics.org/uk/upholding-professional-standards](http://www.rics.org/uk/upholding-professional-standards) [accessed 23 January 2021]

**RICS Publications** - RICS publishes a range of journals that are **free** to view online. Available at: [www.rics.org/uk/news-insight/publications/](http://www.rics.org/uk/news-insight/publications/) [accessed 23 January 2021]



**RICS Library services** [online]. Available at: [www.rics.org/uk/footer/library-services](http://www.rics.org/uk/footer/library-services) [accessed 23 January 2021]

**RICS Library Online catalogue** - 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at: <https://library.rics.org/> [accessed 23 January 2021]

**Royal Town and Planning Institute** (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. RTPI [online]. Available at: [www.rtpi.org.uk](http://www.rtpi.org.uk) [accessed 23 January 2021]

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## S

**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](http://www.savills.co.uk/insight-and-opinion/research.aspx) [accessed 23 January 2021]

**Shoosmiths Insights & articles** – Shoosmiths is a major UK law firm with a network of offices working together as one team. Read the latest insights, articles, and commentary from Shoosmiths or explore their content library that include – Placemaking; Real estate; Diversity & Inclusion; Litigation & disputes; Governance; Employment, and more. Shoosmiths [online]. Available at: [www.shoosmiths.co.uk/insights](http://www.shoosmiths.co.uk/insights) [accessed 23 January 2021]

**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 23 January 2021]

**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](http://www.supplychainschool.co.uk/uk/default-home-main.aspx) [accessed 23 January 2021]

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## T

**The Telegraph – Property and construction industry** - The latest news, analysis and share prices on Britain's biggest construction and property companies. The Telegraph, Property and Construction Industry [online]. Available at: [www.telegraph.co.uk/property-and-construction-industry](http://www.telegraph.co.uk/property-and-construction-industry) [accessed 23 January 2021]

**Tomorrow's Engineers** brings together resources and evidence to support the engineering community in getting the most out of their engagement activity. Tomorrow's Engineer [online]. Available at: [www.tomorrowsengineers.org.uk](http://www.tomorrowsengineers.org.uk) [accessed 23 January 2021]

**Trust in Digital Repositories** (TrustDR) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit. TrustDR [online]. Available at: <https://trustdr.digitalinsite.co.uk> [accessed 23 January 2021]

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## U

**University College of Estate Management (UCEM)** is the leading provider of supported distance learning for real estate and construction professionals. UCEM [online]. Available at: [www.ucem.ac.uk](http://www.ucem.ac.uk) [accessed 23 January 2021]

**University of the West of England (UWE), Centre for Architecture and Built Environment Research** (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/caber.aspx](http://www1.uwe.ac.uk/et/research/caber.aspx) [accessed 23 January 2021]

**UWE Educational Resources for the Built Environment** (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](http://www1.uwe.ac.uk/et/cp/erbe.aspx) [accessed 23 January 2021]

**UWE, ERBE, Construction Films** concentrate on domestic building construction. The films explain the principles of modern construction and, where appropriate, trace its evolution over the last 100 years. ERBE Construction Films [online]. Further information is available at: [www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx](http://www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx) [accessed 23 January 2021]

**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](http://www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx) [accessed 23 January 2021]

**UWE, Library, Search for things: A-Z** [online]. Available at: [www1.uwe.ac.uk/library/searchforthingsa-z.aspx](http://www1.uwe.ac.uk/library/searchforthingsa-z.aspx) [accessed 23 January 2021]

**UWE, Research publications and reports** – Providing immediate world-wide open access to all UWE's research output. Research at UWE Bristol [online]. Available at: [www1.uwe.ac.uk/research.aspx](http://www1.uwe.ac.uk/research.aspx) [accessed 23 January 2021]

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## V

**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. Virtual Training Suite [online]. Available at: [www.vtstutorials.co.uk](http://www.vtstutorials.co.uk) [accessed 23 January 2021]

## Y

**Yale Environment 360** - an online magazine offering opinion, analysis, reporting, and debate on global environmental issues. We feature original articles by scientists, journalists, environmentalists, academics, policy makers, and business people, as well as multimedia content and a daily digest of major environmental news. *Yale Environment 360* [online]. Available at: <https://e360.yale.edu/> [accessed 23 January 2021]

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## Z

**Zetoc: Informing Research** - The monitoring and search service for global research publications, providing access to over 36,000 journals and more than 59 million article citations and conference papers through the British Library's electronic table of contents and over 875,000 Open Access (OA) article citations and conference papers from PubMed. Zetoc [online]. Available at: <http://zetoc.jisc.ac.uk/> [accessed 23 January 2021]

**Note:** *The web-links provided were correct at time of compilation.*

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