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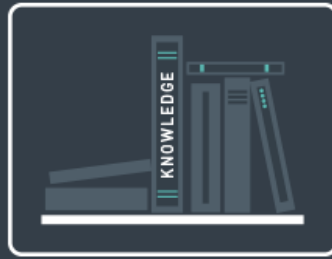
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Knowledge Foundations

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- **Latest UCEM News** incl. The CIOB re-accredits seven UCEM Programmes, and HKICM re-accredits five UCEM Programmes.
- **Things you need to know this week** – Budget focuses on economy rather than environment. Industry bodies say chancellor's budget understandably concentrates on recovery but lacks green action.
- **Latest Research** from JRF, CABE, CBRE, CIOB, RICS, Savills, SI, and more.

Happy Reading!

Issue 4 – April 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

HKICM re-accredits five UCEM Programmes

The Hong Kong Institute of Construction Managers (HKICM) has re-accredited five UCEM programmes.

UCEM's BSc (Hons) programmes in Building Surveying, Construction Management and Quantity Surveying, and the university's MSc programmes in Building Surveying and Quantity Surveying – the only programmes already accredited by HKICM – will be re-accredited for five years from 25 April 2021.

Tim Bennett, UCEM's Dean of School (International) commented: "HKICM is a crucial partner of ours and we are pleased to receive this formal recognition, continuing our ongoing relationship.

"Hong Kong is an important region for us being the location of our Asia-Pacific HQ, so I am delighted that HKICM have accredited the relevant programmes for a further five years.

"I look forward to continuing to work closely with HKICM to benefit the construction industry in Hong Kong."

Cr Daniel Shum, HKICM's Chairman of the Board of Examination, added: "We are pleased to approve the re-accreditation of the programmes.

"We are delighted to strengthen our relationship with UCEM and look forward to supporting each other in nurturing talent for the built environment."

[Access the article 'HKICM re-accredits five UCEM programmes' in full.](#)

Other UCEM News:

The CIOB re-accredits seven UCEM Programmes

Seven UCEM programmes have been re-accredited by the Chartered Institute of Building (CIOB) after a successful accreditation event.

Following the desktop review and virtual visit, the Chartered Institute of Building (CIOB) re-accredited UCEM's BSc (Hons) and MSc programmes in Building Surveying, Construction Management and Quantity Surveying, and its MBA in Construction and Real Estate. UCEM's BSc (Hons) Building Control programme was accredited by the CIOB for the first time. All accreditations are valid until 31 December 2025.

In the Accreditation Panel's final report, UCEM received no conditions, five commendations and two recommendations.

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The five commendations were:

1. Highly responsive to the student voice will clear feedback loop actions
2. Very detailed and good quality feedback to students, both formative and summative
3. The VLE and supporting infrastructure clearly delivers a high-quality learning and student experience
4. The quality of both UCEM's internal review mechanism and the documentation for the reaccreditation event
5. The dedicated staff across all the institution – it was clearly evident from the panel meetings that this is a team event.

The two recommendations were to 'maintain the high standards that you have established' and 'increase the involvement of the local CIOB'.

Tim Bennett, UCEM Dean of School (International), commented: 'I am delighted at the access of the virtual re-accreditation event.'

"It is essential that our programmes meet the criteria of the professional accrediting bodies. Our programmes are mapped to built environment professions and the accreditations signify that our students will be equipped for a successful career in the sector when they complete their studies by the CIOB."

"I was particularly pleased by the commendations given by the CIOB. The event emphasised the importance of our programmes in helping built environment professional boost their career."

[Access the article 'The CIOB re-accredits seven UCEM programmes' in full.](#)

UCEM adopts IHRA's definition of antisemitism

UCEM has adopted the International Holocaust Remembrance Alliance's (IHRA) definition of antisemitism.

There is no place for racism, discrimination or bullying at UCEM, with the adoption of the definition an important step in the university's efforts to be an inclusive place to work and study.

UCEM's Student Disciplinary Policy, External Speaker Policy and Safeguarding Glossary has been updated to reflect the adoption of the IHRA's definition of antisemitism, and awareness events will be organised for staff and students.

UCEM's Deputy Principal, Jane Fawkes commented: "We are firmly committed to ensuring UCEM is an inclusive place to work and study.

"The adoption of the IHRA's definition of antisemitism is part of our continuing efforts to make students and staff aware of the different types of racism, discrimination and bullying which, sadly, exist in society.

"Education is important in helping others understand the discrimination people encounter and promoting treating others as

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you would wish to be treated, regardless of gender, age, ethnic or national origins, race, religion, sexual orientation, gender identification or disability.”

Head to the [IHRA website](#) for the full working definition of antisemitism, and [access the article ‘UCEM adopts IHRA’s definition of antisemitism’ in full.](#)

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.

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.

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.

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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 30th 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.

“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

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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.](#)

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
- 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.

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If you have any further questions, please contact:

- Student enquiries – Student Central on our VLE
- Employer enquiries – businessdevelopment@ucem.ac.uk
- Other enquiries – 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 😊.

Other UCEM News

[UCEM reasserts its commitment to organisational excellence with Advance HE membership](#)



© Advance HE 2021

- 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.

- [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](#)

Further information on [Building People](#) can also be accessed via the **Career services** section later in this issue of **Knowledge Foundations**.

Also - 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: Budget focuses on economy rather than environment

- Industry bodies say chancellor's budget understandably concentrates on recovery, but lacks green action.

Property and construction bodies welcomed measures to drive economic recovery in chancellor Rishi Sunak's spring budget, but highlighted its lack of green focus for buildings. Major budget announcements included more than £1 billion backing for 45 locations under the government's Towns Fund and confirmation of eight locations that are set to be awarded freeport status, making them attractive to business and investment. Melanie Leech, chief executive of the British Property Federation, said, "Recovery will require the government to be bolder over the next year, particularly to meet its ambitions in relation to decarbonisation, but today's budget will have provided confidence to hard-pressed businesses on our high streets that government support is far from over". RIBA president Alan Jones said, "Whilst the chancellor's focus is understandably on mitigating the impact of the pandemic, the measures announced today do little to reassure me of the government's commitment to reach net zero or drive a green economic recovery". But the budget did contain announcements of green finance, with a commitment to create a UK infrastructure bank, based in Leeds, with £12 billion capital and the issue of the UK's first sovereign green bonds this year, which will be worth up to £15 billion.

Other developments include –

- Retailer Marks & Spencer is proposing to redevelop its flagship Marble Arch store and surrounding site on London's Oxford Street.
- Leicester City Council has approved the purchase of 174 units of former nurses' accommodation, which it plans to convert into 154 affordable homes for city residents.
- Developer Amstone Ventures has completed the acquisition of a 1.33 hectare site in Stockport town centre, Greater Manchester, for a build-to-rent led residential development.
- Housing association Tonic Housing is to create the UK's first LGBT+ affirming retirement community, after securing a £5.7 million community housing fund loan from the London mayor.
- London mayor Sadiq Khan has launched a search for a development partner to deliver more than 730 homes on the site of the former Metropolitan Police training centre and driving school in Colindale, north London.

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- Affordable workspace developer Projekt's proposal to create space for the creative economy in east London's Royal Docks has won £2.8 million backing from the Royal Docks good growth fund.

(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: Budget focuses on economy rather than environment' article](#)

Case Study: Establishing a council housing company for Oxford

- Oxford City Council's housing company has completed the first homes in its ten-year delivery programme, and is applying lessons from its early experience, finds the author of this article.

Two new homes in a village to the north of Oxford mark a step change in Oxford City Council's delivery of housing. The houses handed over this month at Harts Close in Kidlington are the first fruits of the council's own housing company, Oxford City Housing (OCHL), and its major new housing delivery programme.

The council has set up OCHL to help to respond to the acute need for more affordable homes in the city. It is making a significant commitment to housebuilding, with a strategy to deliver 1,891 homes for rent and sale in and around Oxford over a decade.

Challenges

"The biggest challenges in the programme have been starting from scratch and having to establish the infrastructure to grow a programme of this scale," says Alan Whyde, housing development and enabling manager for OHCL. It has gone from a standing start to delivering more than the two homes at Harts Close. It is building 144 homes on 12 sites around Oxford and expects to complete more than 50 homes this summer (see publication date). Alongside that, it is preparing to submit planning applications for more than 100 homes to maintain the programme's impetus.

Every individual site presents its challenges. "On site, we've encountered the normal issues you would find on any brownfield sites in terms of ground conditions, contamination and archaeology," says Whyde. "The latter has been a particular focus on some sites, as you might expect in a city with such a long history."

Solutions

Homes in the programme are for a mix of tenures including social rent, shared ownership and other affordable tenures. The programme includes market sales homes to support the delivery of affordable homes and council homes.

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The scale of developments currently coming through the programme range from single houses to a scheme of 38 homes, which is being developed on the site of a former petrol station. Site issues have been overcome through close work with construction partners professional teams and the council's own planning team, says Wylde, but he acknowledges, "This intense work to overcome ground issues does cost both time and money".

As a result, the council plans a move to modular housebuilding approaches, for which it is in the process of creating a procurement framework to help address that by allowing a twin track approach to substructure and superstructure works, leading to a quicker delivery of sites," explains Wylde. "It will also allow Oxford to accelerate our progress towards zero carbon homes by setting out clear, challenging sustainability targets for contractors and ensuring we work with delivery partners, who are capable of delivering our ambitious carbon reduction agenda." OCHL has committed to delivering homes that get at least 40 per cent beyond current government carbon reduction targets and to targeting zero carbon by 2030.

The Harts Close homes, which are designed by architect Levitt Bernstein, have solar panels, and, unusually three bedrooms to accommodate larger families. The semi-detached homes are being made available on different tenures: one for affordable rent, at 80 per cent or market average, and the other for social rent. Levitt Bernstein's design for the former petrol station site on Between Towns Road combines a curved apartment building with mews houses, incorporating such sustainable features as mechanical ventilation with heat recovery and photovoltaic panels.

The move to modular is not the only learning emerging from the programme's early stages. Wylde says, "Something that is clear is the need to better coordinate planning and delivery phases and to avoid baking in problems later by bringing delivery partners into design conversations as early as possible.

With their tenure mix, Sustainable objectives and future modular construction, the programme's homes, "will benefit everyone in our city," says councillor Alex Hollingsworth, cabinet member for planning and housing delivery. The programme is, Hollingsworth adds, "an investment in Oxford's future".

[Read the full 'Establishing a council housing company for Oxford' 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').

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Analysis: Making housing a force for social good

- Building more homes is not enough to address the housing crisis, argues a commission established by the Archbishops of Canterbury and York. The commission has set out an alternative, the author of this article writes.

Two years ago, the Archbishops of Canterbury and York launched an independent commission to look at the housing crisis. The commission's 126-page report was published this week, with the pandemic adding further urgency to its subject.

The commission has looked at both how the Church of England can play its part in alleviating the current crisis, and at broader recommendations for government, the housebuilding sector, and communities to promote affordable homes and stronger communities.

Central to the commission's report, ***Coming Home***, is the belief that simply building more houses "is not sufficient to address the prolonged housing issues this country continues to face". It argues that the housing market needs to refocus on the greater good, with government, landowners, landlords, developers, and others bearing "their share of sacrifice to ensure a better future for all". It says: "We believe homeowners should not necessarily expect the value of their housing asset to rise every year and should resist the temptation to oppose new developments in their area." It calls for developers to "balance the environmental and social, as well as the financial benefits, of new development". The report sets out five core values that define good and equitable housing, summed up as: sustainable, safe, stable, sociable and satisfying.

Action and recommendations - The Church of England aims to lead by example, by putting its own land to good use with new housing that aligns with its five core values. To do that, it will encourage dioceses and parishes to become more involved in meeting housing need and building community and could deploy some of the £8.7 billion of assets managed by the Church Commissioners, the body that manages much of the Church's land and other assets. Approximately 15 per cent of these assets are in landholdings, with 3 per cent – or 2428 hectares – being strategic land suitable for housing.

A collective effort - The commission's report has won endorsement from such industry players as investor Legal & General and affordable housing providers Home Group, Paradigm and L&Q.

[Further information and read the article, 'Analysis: Making housing a force for social good' 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').

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Budget 2021 - A Summary from the Heritage Alliance

[Budget 2021](#) took place on 3 March 2021. Here the Heritage Alliance summarises some of the key outcomes:

Business Support

- **The Job Retention Scheme** - or furlough - will be extended until the end of September. From July, the government will introduce an employer contribution towards the cost of unworked hours of 10% in July, 20% in August and 20% in September.
- **Self-Employment Income Support Scheme**
 - People whose turnover has fallen by 30% or more will continue to receive the full 80% grant.
 - People whose turnover has fallen by less than 30% will therefore have less need of taxpayer support, and will receive a 30% grant.
 - The 4th grant will cover February to April, worth 80% of average trading profits up to £7,500.
 - A 5th grant will be available from July.
- **Further 100% relief from business rates** to 30th June and 66% reduction in rates for the rest of the 2021/22 financial year for businesses closed in the latest lockdown. The 66% relief is capped at a total of £2million for any one business. When combined with Small Business Rates Relief, this means 750,000 retail, hospitality and leisure properties in England will pay no business rates for 3 months from 1 April 2021, with the vast majority of eligible businesses receiving 75% relief across the year.
- **VAT rate for tourism and hospitality**, kept down to 5% until 30th September and then 12.5% to 31st March 2022 before going back up to 20%.
- **Restart Grants**
 - Non-essential retail businesses will receive grants of up to £6,000 per premises.
 - Hospitality, accommodation and leisure businesses will get grants of up to £18,000.
- **Additional Restrictions Grants**
 - An additional £425 million of discretionary business grant funding, on top of the £1.6 billion already allocated.
- **Recovery Loan Scheme**
 - Recovery Loan Scheme will provide lenders with a guarantee of 80% on eligible loans between £25,000 and £10 million to give them confidence in continuing to provide finance to UK businesses. The scheme will be open to all businesses, including those who have already received support under the existing COVID-19 guaranteed loan schemes.

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Other areas covered include: **Arts, Culture and Heritage Funding**; and **Other Funds** incl. Levelling Up Fund prospectus launch; UK Community Renewal Fund prospectus launch; Community Ownership Fund; Heritage Fuels – Red Diesel; Across the Creative Industries; Tax Reliefs and Exemptions; Help to Grow: Digital; and

- **Traineeships**

- Additional £126 million for high quality work placements and training for 16–24-year-olds. Employers who provide trainees with work experience will continue to be funded at a rate of £1,000 per trainee.
- Payments for employers who hire new apprentices between 1 April 2021 and 30 September 2021 will receive £3,000 per new hire. This is in addition to the existing £1,000 payment the government provides for all new 16–18-year-old apprentices.
- The government will introduce a £7 million fund from July 2021 to help employers in England set up and expand portable apprenticeships. This will enable people who need to work across multiple projects with different employers to benefit from the high-quality long-term training that an apprenticeship provides.

[Access further information from the Heritage Alliance ‘Budget 2021 – A summary’, 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.

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.

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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 [March 2021]

LIVE News Latest – COVID infections levelling off in the UK.

Summary:

- The number testing positive for coronavirus is levelling off in England, Wales, and Northern Ireland, and has risen in Scotland, official figures suggest,
- Infection levels in secondary school-age children rose slightly in England although they fell in older teenagers, according to the Office for National Statistics,
- The UK's R number has narrowed slightly to 0.7-0.9 from 0.6-0.9 last week - it shows the epidemic is still shrinking because it remains below 1,
- The UK's daily figures show another 6,187 confirmed cases and 70 deaths within 28 days of a positive Covid test,
- France has accused the UK of "blackmail" over its handling of coronavirus vaccine exports, amid continuing tensions over supply chains,
- Germany's disease control agency says there are very clear signs the third Covid-19 wave could be much worse than the previous two,

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- "Stay-local" rules will lift in Wales from Saturday and unrestricted travel within Wales will be allowed,
- The US has passed 30 million recorded coronavirus cases, the highest number of cases in the world.

[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.](#)[Access GOV.UK \(2021\) 'Coronavirus \(COVID-19\): what you need to know' \[online\]. Available at: \[www.GOV.UK\]\(http://www.GOV.UK\)](#)

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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?

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

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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.](#)

[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

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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, but they may also 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'](#)

Covid-19 and the impact on business

HSTalks

© Henry Stewart Talks Ltd 2021

HS Talks - Interviews with academics and experts from the business community, on the impact of the Covid-19 pandemic, are now available in the HS Talks 'Business & Management' collection that UCEM subscribes to.

1. [The impact of Covid-19 on organisations](#)
2. [The impact of Covid-19 on psychological safety in the workplace](#)
3. [The impact of Covid-19 on cybersecurity and data privacy](#)
4. [The impact of Covid-19 on tourism](#)

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:

VAT Reverse Charge to apply from 1 March 2021

- The VAT domestic reverse charge is a major change to the way VAT will be collected in the building and construction industry.

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

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local authorities are playing in fostering regeneration in partnership with private sector partners.

The future of build-to-rent market podcast series
Podcast – Government policy BTR (Build to Rent)

The future of the BTR market from Shoosmiths' Living team:

Podcast series #1 – The future of BTR (Build to Rent)

Issues discussed in this podcast include:

- Performance of the sector
- 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**

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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 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 reimaged: 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

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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
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 prepared for Brexit with new working group

- Construction prepared itself for the UK's exit from the European Union (at the end of 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

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- **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.

[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 (March 2020) new [free CIRIA 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.

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.

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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.

Phase 2 hearings – Hearings have been suspended in light of recent developments, and the Inquiry aims to resume with remote hearings on 9 January.

Remote Hearings / 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. Full guidance can be accessed via the [Grenfell Tower Inquiry website](#).

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

- **Hearings update** - The Inquiry has published an update on its plans to return to limited attendance hearings, • **February 2021 Newsletter** – The Inquiry has published an update on its work.

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

Government’s £3.5bn cladding proposals ‘unacceptable’

- The extra £3.5bn promised by the government to remove unsafe cladding from high-rise buildings over 18m — or above six storeys — in England is ‘unacceptable’ in its current form, the Chartered Institute of Building (CIOB) has warned.

Housing secretary Robert Jenrick said the investment was the government’s “largest ever” in building safety.

The funding is in addition to a pot of £1.6bn announced last year and Jenrick told the House of Commons that no leaseholder would pay more than £50 a month if cladding on their building needed to be removed.

A new levy will be placed on future developments to pay for the fund. Jenrick also announced plans to introduce a new tax on the residential property sector from 2022 to help pay for the removal of cladding. It is expected to raise £2bn over a decade.

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But the CIOB said more detail was still required and said it had already highlighted concerns about the impact of the proposals on leaseholders — particularly those in living in buildings under 18m.

The CIOB issued a call last week (see publication date) to the government to commit to acting immediately on finding a funding solution which does not penalise leaseholders and leave them “burdened with paying, even in part, for historical building safety remediation works”, while also ensuring that these costs are excluded from the proposed building safety charge.

The CIOB submitted evidence to the Housing, Communities and Local Government Committee’s pre-legislative scrutiny of the Draft Building Safety Bill last year and its recommendations were incorporated in the Committee’s final report. The government has not yet formally responded to this report.

Meanwhile, Jonathan O’Neill, managing director of the Fire Protection Association (FPA) criticised the government’s announcement and said funding should be put in place for all affected buildings – regardless of their height.

“The government must act now and support all leaseholders, in all affected buildings regardless of their height, with grants to bring this debacle to a close. It should then be on the government to pursue those responsible through the courts to ensure the money is fully repaid.”

[Further information and access to the *Construction Manager* article, ‘Government’s £3.5bn cladding proposals ‘unacceptable’, in full.](#)

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

The Australian Construction Industry is now facing skills shortages in all trades. As an industry focused on the skills of its workforce, there is now concern the Australian standard in quality, workmanship, and productivity will inhibit both 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 21st Century'.](#)

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

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in commercial property occupier and investor markets around the world.

- [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 February 2021]

- 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

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- Price changes
- 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', Published 14 June \(Last updated 15 February 2021\)' 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](#)

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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
Telephone: 0800 066 066

UCEM e-Library content to help you look forward more positively in 2021!

2020 was a hard year for all so Emerald Publishing (one of the valuable UCEM e-Library subscription services) wanted to look forward more positively 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.]

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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

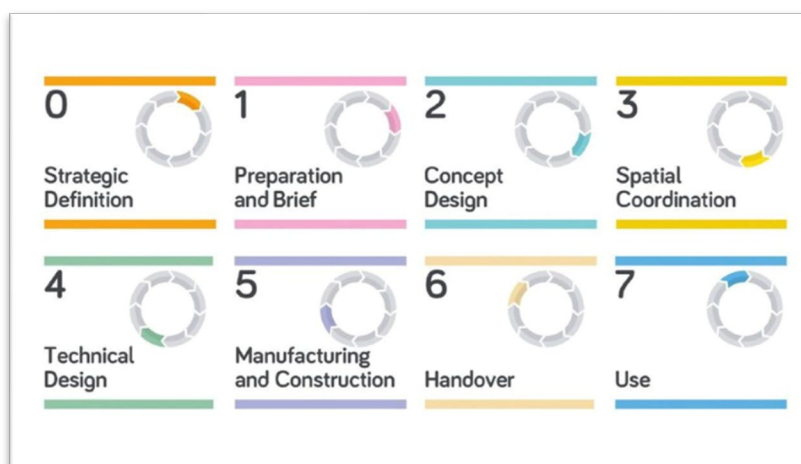
5 – Manufacturing and construction – formerly Construction

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.

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[Access the Step-by-step guide to using BIM on projects](#)

Latest BIM+ News and Projects [March 2021] –

- **Project:** [How Wates maintained progress on Nottingham college project](#), 31st January 2021.

- Among the 50 live Wates Construction sites shut down by the first covid-19 lockdown was the Nottingham College City Hub. Once allowed to re-open the site, Wates turned to cloud-based project management software to help maintain progress once work could continue on site.

Client: Nottingham College; **Architect:** Bond Bryan; **Main contractor:** Wates Construction

When the first covid-19 forced projects to shut down at a moment's notice, construction businesses were forced to find views ways of operating and keeping workers safe. For Wates Construction, which had 50 live sites across England, this was a business-critical moment.

With work halted, a team began working around the clock to analyse all aspects of Wates' operating procedures and establish a model that would allow projects to continue moving forward while protecting the health and wellbeing of those working on site. Two days later, the company's project was up and running again, including The Nottingham City Hub, which was one of the company's flagship projects for the Midlands.

Resuming site operations – Intended to revitalise the area, The Nottingham City Hub is a £58.5m educational facility procured via Major Works — UK, part of the Scape National Construction framework. It is designed to offer state-of-the-art facilities and resources for college students, as well as amenities including a restaurant, café & performing arts centre. Throughout the project, Wates engaged the local supply chain and provided training and employment opportunities for local workers, in order to ensure that the project would deliver a social, skills and economic boost to the city.

Increased productivity – Field View enables Wates managers to spend between two and three hours extra on site per day vs having to constantly go back to the office to complete paperwork, This saved the company in the region of £40,000 throughout the remainder of the project.

Covid-19 pending, Nottingham City Hub will welcome students this Spring (2021), providing new opportunities for students and the city at large. Not only will the project help revitalise the college and surrounding area, but it has also helped to illuminate the role that technology can and will likely continue to play in helping sustain construction operations in light of the pandemic.

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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. 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 Stavenger Hospital.](#)

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

Related BIM+ Projects

- **(1) Project: [John Sisk relies on BIM best practice to deliver Malmo data centre](#), 2nd 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.

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

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- 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.
- **(2) Project: Finland's Hospital Nova uses VR to involve staff in building, 28th April 2020.**
Lead Contractor: The Central Finland Health Care District
BIM Tools: Tridify
 - Innovative processes have been used in the co-design of Finland's new Hospital Nova using BIM models and involving more than 350 staff.
- **(3) Project: NHS Nightingale Hospital, East London – how BIM played its part, 5th May 2020.**
Client: Barts Health NHS Trust, Royal Free London NHS Foundation Trust
Lead Contractor: Lead Designer: BDF
BIM Tools: Autodesk Revit
 - The UK's newest (see publication date) and largest hospital, based at the ExCel conference centre in London's Docklands, is designed to care for up to 4,000 people affected by Covid-19. The hospital is now in standby mode and will be used should cases in the London area rise again.
- **(4) Project: Mace use AI tech on Mayfair project to meet Covid-19 safety challenges, 1st October 2020**
 - Work was already underway on Lodha's No 1 Grosvenor Square flagship project when the lockdown and then social distancing added to the normal construction challenges.Client: Lodha
Main contractor: Mace
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.
- **(5) Project: AI tracks work quality at Norway's Stavanger Hospital, 21st June 2020.**
Client: Stavanger University Hospital
BIM Tools: 100% International open standards, compatible with Revit, ArchiCAD, Solibri and others
 - Oslo-based BIM developer Imerso has been given responsibility to monitor work progress in one of the biggest public construction projects in Scandinavia.

[Back to top](#)**Other BIM+ Projects include:**

- **Project: How BIM drove redevelopment of a Dublin office, 22nd 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, 11th 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

- **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.

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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 – 10th annual BIM report 2020 available

NBS 10th National BIM Report 2020 - The 2020 annual BIM report marks the 10th 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.

Construction Information Service (CIS) Insights

The latest edition [**March 2021**] of NBS CIS *Insights* focuses on – **Post-Brexit conformity marking and designated standards; how the new rules affect you and covers:**

- Understanding new terminology,
- How CE, UKA and UKNI marking works, and
- UK Designated Standards and hENs

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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.

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Impacts: Real estate investment in 2021: global outlook
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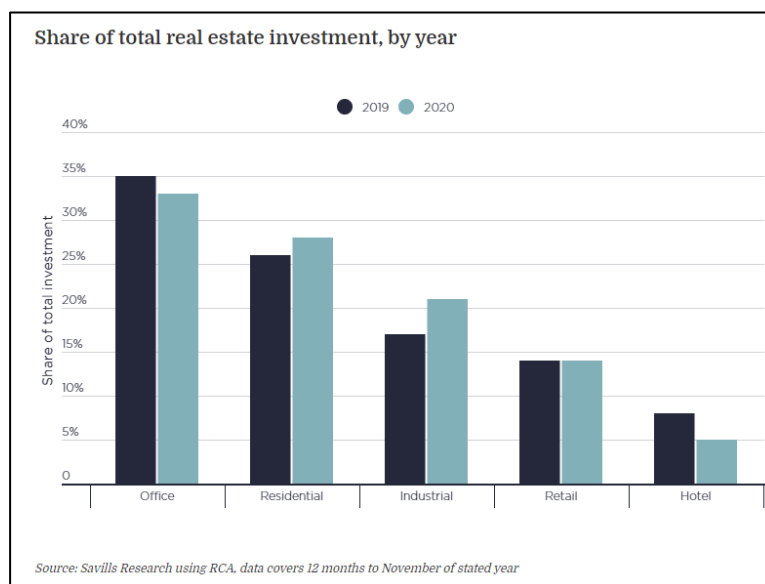
- Savills examine the global trends and in-demand assets for 2021

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 economics 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 economics 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 on the next page.

Share of total real estate investment, by year



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

The resilience of these sectors, from left to right and include – **Office, Residential, Industrial, Retail and Hotel**, in the face of structural change means that is 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

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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.
- 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](#).**

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[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.

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.

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- 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.

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. Funding 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

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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'](#).

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.

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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.

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 rights 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.

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- 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?

[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,

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- **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) CABE – Chartered Institute of Building Engineers

Two new publications 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 CABE, 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 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 has 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 buildings, 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](#)

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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 **March 2021**, the **latest news & insights** include:

- 1Q21 estimate of Tender Price Inflation
- **Go to the new UK guidance note on residential properties with cladding**
- BCIS forecasts for the FM sector
- Identify, representation and diversity
- New ways you can define the future of RICS
- RICS recognised by CSCS – Construction Skills Certification Scheme
- **The effect of Brexit on UK construction**

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 construction project, The 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 **March 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: Socio-Economic Analysis of The True Value of The Built Environment*
- **Future of Construction research** – *Aiming the Construction Industry for the Future: Recruiting from the military into construction*. Also access the latest Future of construction NEWS - **CIOB Policy Team Newsletter – February 2021**
- **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*.

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[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 **March 2020**, 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.

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 **March 2021**, the latest House of Commons Library, [Research publications](#) incl.

1. Integrated Review 2021: Increasing the cap on the UK's nuclear stockpile
2. The Liaison Committee: taking evidence from the Prime Minister
3. Counter-Terrorism and Sentencing Bill: Lords amendments

[Review House of Commons Library, Research for this week](#)

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As of **March 2021** the latest **House of Commons Research**:

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

1. Free speech in universities: What are the issues?
2. Science and Discovery Centres' support for education in science and careers in STEM subjects
3. Part-time undergraduate students in England
4. Higher education student numbers
5. Learning Disability

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

1. Fire Safety Bill 2019-2021
2. Freeports
3. Housing Market: Key Economic Indicators
4. Coronavirus: Support for landlords and tenants
5. The Cladding External Wall System (EWS)

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

1. Green Homes Grants
2. Energy bills and tariff caps
3. Environmental Bill 2019-21: Report on Committee Stage
4. Integrated Review 2021: summary,
5. The UK-EU Trade and Cooperation Agreement: Fisheries; and Summary and implementation, and
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 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

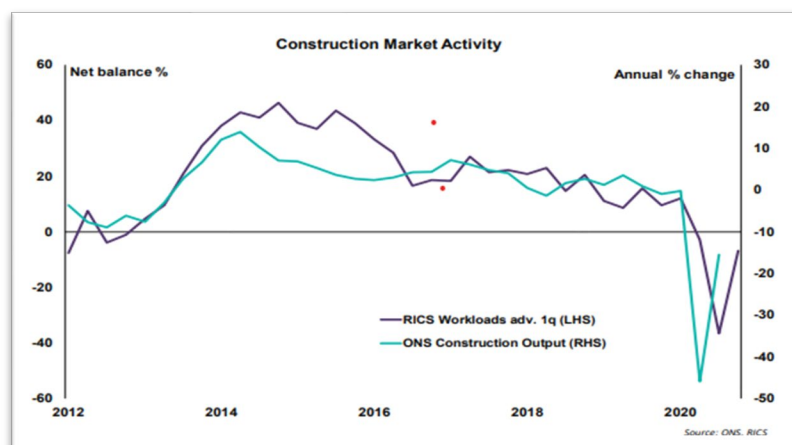
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expectations point to momentum slowing with the difficult economic backdrop expected to weigh on activity next year as the Stamp Duty holiday comes to end. Meanwhile, the Q3 results for the RICS UK Commercial Property Market Survey (also covered in 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 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](#)

[Back to top](#)**UK Residential Market Survey: February 2021**

- Lockdown still weighing on sales market activity somewhat, but forward-looking indicators improve

- New vendors deterred given current restrictions, with demand metrics also slightly negative,
- Upward pressure on house prices shows no sign of easing,
- Near term sales expectations move into positive territory.

The February 2021 RICS UK Residential Survey results point to another slightly softer month for sales market activity, albeit this is following an especially strong second half of 2020. In particular, current lockdown restrictions appear to be deterring new vendors putting their homes up for sale. However, forward looking metrics have shown some improvement, with sales expected to rise modestly over the coming three months. What's more, it is important to note that over three-quarters of the survey sample was gathered prior to the Chancellor confirming that the Stamp Duty holiday would be extended until the end of June (and then tapered through to October) in the recent Budget.

At the national level, the net balance for new buyer enquiries came in at -9% in February. Although this is the second consecutive negative monthly figure, it is noticeably less downbeat than the reading of -29% posted in January. Meanwhile, new instructions also fell for a second month in succession, evidenced by a net balance of -29% of contributors reporting a decline (which compares to a reading of -40% recorded in the January figures, and reported on in *Knowledge Foundations* last month.)

With regards to house prices, the survey's headline gauge of price growth registered a net balance of +52% in February (little changed from +49% returned last month). As such, this measure is indicative of house price inflation maintaining strong momentum, even if the latest reading is a touch softer than the recent high of +66% seen back in October last year (2020). At the regional level, respondents across all parts of the UK noted some degree of price growth in the latest results, with Wales, the North of England and Northern Ireland all exhibiting particularly strong readings.

[Read the latest RICS UK Residential Market Survey: February 2021 in full.](#)

RICS - SPACIOUS 千居 Hong Kong Residential Market Survey: January 2021

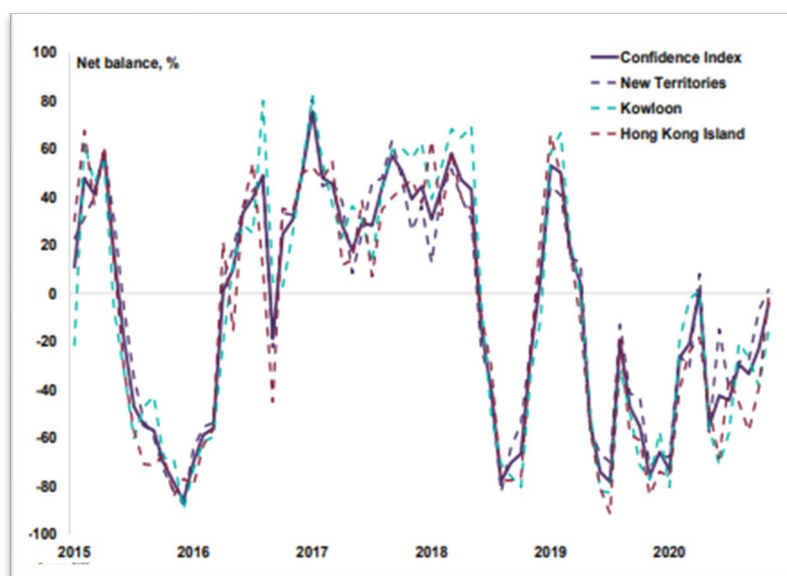
- Expectations for sales and rental markets continue to diverge

- Downward pressure on prices and sales volume appears to be easing,
- That said, the 12-month outlook for prices is highly disparate,
- Rents remain under pressure as some respondents mention BNO passport applications are set to open.

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Responses to the January 2021 RICS-Spacious Hong Kong Residential Monitor appear to indicate a degree of stabilization in the sales market. The Confidence Index* (CI), shown in Chart 1, rose to -4 in January from -23 in December. The reading was also the highest since June 2020 (+1). Although sentiment appears to have improved in all three of Hong Kong's regions, it seems to be slightly stronger in the New Territories (+2) and Hong Kong Island (-1) than it is in Kowloon (-16).

Chart 1: Confidence Index*:



Source: RICS Economics Research: *RICS Hong Kong Residential Monitor – January 2021*, London: RICS, p1 - Chart 1.

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

The share of survey participants who noted a decline in prices over the past three months fell from 60% in December to 49% in January. This roughly corresponds to a 1.1% observed decline in prices over the period, vs an approximate 1.5% decline reported in December (2020).

Sales market fundamentals also appear to have improved.

[Read the latest RICS HK Residential Monitor: January 2021 in full.](#)

Global Commercial Property Monitors, Q4 2020

- Sentiment metrics edge upwards in Q4 but still reflect virus uncertainty and macro scarring.

- Real estate sentiment remains negative albeit less so than previously,
- Logistics/Industrial continue to outperform alongside some alternatives such as data centres,

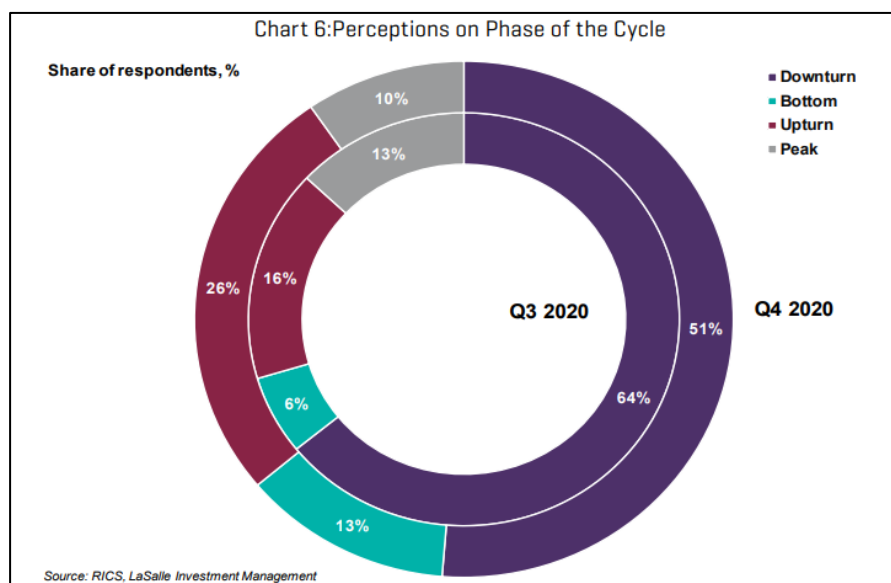
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- Cross-border investment enquiries indicator reflects ongoing concerns about the outlook.

Opinions divided on the current stage of the cycle

35% of respondents still view the market to be in a downturn phase of the cycle collectively across the Middle East and Africa, significantly below the 60% who were of this opinion previously. At the same time, there was a rise from 16% to 25% in the proportion of survey participants sensing the market has reached a floor.

Chart 6: Perceptions on Phase of the Cycle:



Source: RICS Economics Research: *RICS Global Property Monitors, Q4 2020*, London: RICS, p3 - Chart 6

Even so, the largest share of contributors in South Africa and Nigeria still perceives the market to be turning down. Conversely, a strong majority of respondents in Saudi Arabia feel a recovery is already underway in the market.

[Read the latest RICS Global Commercial Property Monitor, Q4 2020 in full.](#)

Latest Statistics from the Office for National Statistics (ONS)

UK economy latest – A roundup of the latest data and analysis on the UK economy, business and jobs following Brexit and during the coronavirus (COVID-19) pandemic.

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

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

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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.

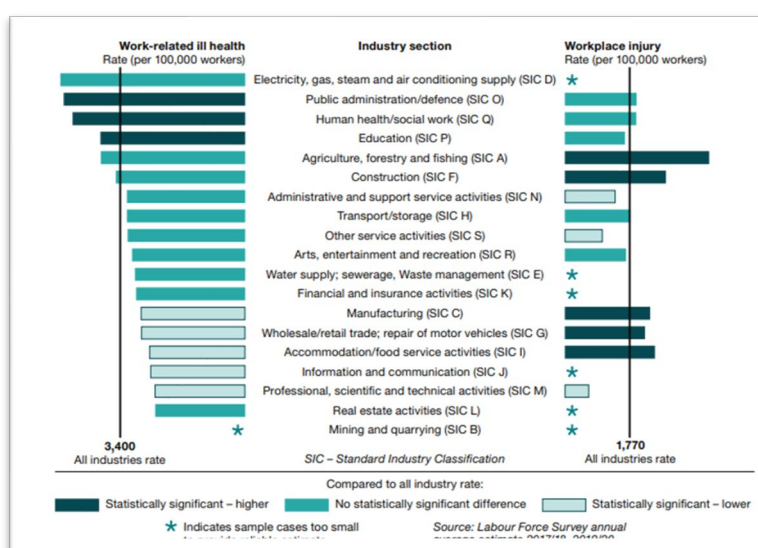
[Read the full statistical bulletin, 'Construction output in Great Britain: November 2020'](#)

Latest Statistics from HSE – Health and Safety Executive

Latest Key figures for Great Britain (2019/20)

- **1.6 million** working people suffering from a work-related illness
- **2,446** mesothelioma deaths due to past asbestos exposures (2018)
- **111** workers killed at work
- **693,000** working people sustain an injury at work according to the Labour Force Survey
- **65,427** injuries to employees reported under RIDDOR
- **38.8 million** working days lost due to work-related illness and workplace injury
- **£16.2 billion** estimated cost of injuries and ill health from current working conditions (2018/19)

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



© Crown copyright 2021

Source: HSE (2020) 'Health and safety at work: Summary statistics for Great Britain 2020', Bottle: HSE, p9.

More detailed statistics on selected industry groups (that include 'construction' can be found from [the suite of health and safety statistics tables](#) and '[Summary Statistics 2020](#)'.

[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

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** (**March 2021**), RICS takes a look at 'Building back, building better' – The pandemic has shaken us all but RICS is determined to use the disruption as an opportunity to improve.

Subject Terms/Keywords: RICS standards and guidance.

Latest articles within *Modus*:

- **Construction counts the cost of COVID-19** – What can the latest RICS research tell us about the impact of the pandemic on local construction markets – particularly when it comes to predicting costs.

Subject Terms/Keywords: Quantity surveying and construction; and Cost management.

- **Flooding – Can we turn the tide** – Flood prevention and repairs cost the UK billions of pounds each year, but simple, small-scale solutions can be remarkably effective.

Subject Terms/Keywords: Housing.

- **Mind the funding gap: public transport's COVID19 bill** – Underused and underfunded, most urban transport systems have remained open during lockdown. But how will they survive their debts and could the pandemic provide an opportunity for reorganisation?

Subject Terms/Keywords: Infrastructure and services; Infrastructure; Public sector.

- **Texas Blackout: What went wrong in the Lone Star State?** – When the lights went out in Texas during the ice storms, some people believed it was an accident waiting to happen. Was it underinvestment rather than the weather that caused the power cuts?

Subject Terms/Keywords: Natural disasters; Infrastructure.

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- **Work shift: how will COVID-19 affect office space?** – What do the huge changes in the way we work mean for the office sector and those who value it? *Modus* asks RICS experts to predict the post-pandemic global trends.

Subject Terms/Keywords: Commercial valuation; Commercial property; Valuation.

- **Building a more inclusive environment** – To champion diversity in our industry, *Modus* asks six RICS professionals from different ethnic, professional, and geographic backgrounds about representation and their hopes for 2021.

Subject Terms/Keywords: Diversity and inclusion; Ethical practice; Learning and Development.

- **You're hired: the advantages of employing an apprentice:** After almost a year of coping with the financial challenges resulting from the COVID-19 pandemic, the last thing many small-to-medium sized (SME) business owners might be tempted to do is spend money on staffing. But there is a compelling argument to invest in your business' future now.

Subject Terms/Keywords: Running your business; Learning and Development

- **Slumdog billionaire: turning rubbish into rupees** – What can India's building industry learn from a Mumbai Slum when it comes to adopting circular principles?

Subject Terms/Keywords: Environmental management; Materials and resources; Minerals and Waste management.

- **A star in the east: meet RICS Young Surveyor of 2020** – Hong Kong's Ryan Ip is no ordinary surveyor, having worked for the region's central bank and advised its government. He talks about the island's problems, protests, and the secrets of his success.

Subject Terms/Keywords: Commercial property; Housing

- **Another day at the (home) office** - As lockdowns continue for the foreseeable future, stay motivated and mentally resilient while WFH with tips from the professionals who've been doing it for years.

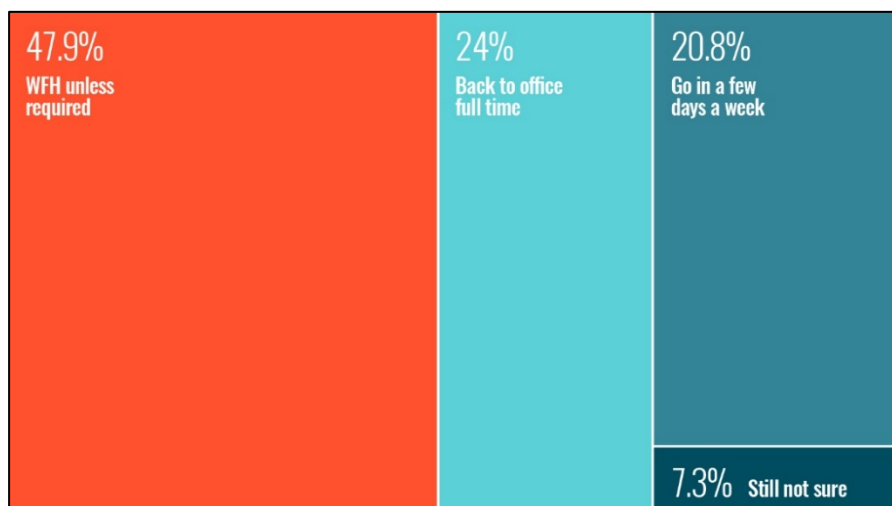
Subject Terms/Keywords: Wellbeing; Running your business; Learning and development.

- **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.

Subject Terms/Keywords: Running your business.

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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, **March 2021 – Issue 438** focusing on the Budget 2021. Responding to the Budget 2021, The Heritage Alliance summarises key outcomes (covered earlier in this issue of *Knowledge Foundations*). Also covered within this issue – Funding Boost for Culture & Heritage; Historic Environment Forum publishes **Heritage Recovery Plan**; & Visit the heritage Alliance "**Virtual Programme**" for Heritage Day.

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

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'AI: An invisible revolution in Workplace Learning'. A technology revolution driven by AI will transform the way we plan learning and manage knowledge at work. The only thing holding it back will be the humans working alongside it, argues David Sharp, CEO of International Workplace, within the cover article.

[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 2021](#). The Latest Edition focuses on – **Post-Brexit conformity marking and designated standards; how the new rules affect you**, and covers -

- **Understanding new terminology,**
- **How CE, UKCA and UKNI marking works, and**
- **UK Designated Standards and hENs.**

[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

Open Praxis – 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(4)** and third *Open Praxis* in 2020 includes six research papers and two innovative practice papers:

Research articles include:

1. 'Exploring the impacts of distance higher education on adult learners' lives are reclaiming lifelong learning as a human development process'
2. 'Tutoring support as a predictor of student retention in distance learning: The case of a University in Ghana'
3. 'Open and Distance Learner Engagement with Online Mediation Tools: An Activity Theory Analysis'
4. 'The Influence of Social Presence on Students' Satisfaction toward Online Course'

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5. 'Evaluation and Improvement of Students' satisfaction in Online Learning during COVID-19'
6. 'An Evaluation of Online Proctoring Tools'
7. 'What About Reuse? A Study on the Use of Open Educational Resources in Dutch Higher Education'
8. 'Impact of OER in Teacher Education'
9. 'Student Perceptions of Textbooks: Prior Behaviours and belief Can Influence Zero Textbook Cost (ZTC) Adoption Impact'.

Book Review:

1. 'Book Review of Teaching and Learning with Technology: Pushing boundaries and breaking down walls'

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 of EURODL**, **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 25(1)**. You probably know that the Online Learning Consortium publishes a peer-reviewed scholarly journal called Online Learning (OLJ). But did you know that this journal is entering its 25th year of publication? First published in 1997 as the Journal of Asynchronous Learning Networks (JALN), the journal changed

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names (and merged with MERLOT's Journal of Online Learning and Teaching) in 2014. To celebrate twenty-five years of excellence in systematic investigations of online education we will present a special issue in March 2021 edited by Dr. Shanna Smith Jaggars.

Table of Contents – Introduction to the 25th Anniversary Issue of Online Learning

Special Issue on COVID-19 – Introduction to the Special Issue on the COVID-19 Emergency Transition to Remote Learning

Section I: Investigating Teaching, Learning and Student Support in the U.S.

- 'Teaching and Learning in the Time of COVID-19: The Student Perspective',
- 'Remote Student Support During COVID-19: Perspectives of Chief Online Officers in Higher Education',
- 'COVID-19 and Community College Instructional Responses'
- 'A Pandemic of Busywork: Increased Online Coursework Following the Transition to Remote Instruction is Associated with Reduced Academic Achievement',
- 'Profiles of Instructor Responses to Emergency Distance Learning',
- 'A Light in Students' Lives: K-12 Teachers' Experiences (Re)Building Caring Relationships During Remote Learning',
- 'Instructor Social Presence and Connectedness in a Quick Shift from Face-to-Face to Online Instruction',
- 'Using an Ethos of Care to Bridge the Digital Divide: Exploring Faculty Narratives During a Global Pandemic',
- 'Preparing Doctoral Students to Teach in an Increasingly Virtual World: A Response to COVID-19 and Beyond'.

Section II: Brief Case Studies on the Pivot to Emergency Remote Teaching

- 'Without Crossing a Border: Exploring the Impact of Shifting Study Abroad Online on Students' Learning and Intercultural Competence Development during the COVID-19 Pandemic',
- 'Motivating Students to Learn AI Through Social Networking Sites: A Case Study in Hong Kong',
- 'Moving Hands on Mechanical Engineers Experiences Online: Course Redesigns and Student Perspectives',
- 'Maintaining Academic Performance and Student Satisfaction during the Remote Transition of a Nursing Obstetrics Course to Online Instruction',
- 'Using Telehealth to Enhance Paediatric Psychiatric Clinical Simulation: Rising to Meet the COVID-19 Challenge',
- 'Adapting a Classroom Simulation Experience to an Online Escape Room in Nutrition Education',
- 'Moving Assessment Online: Experiences within a School of Pharmacy'.

Section III: International Perspectives

- 'The Forgotten Ones: How Rural Teachers in Mexico are Facing the COVID-19 Pandemic',
- 'The Hidden Shadow of Coronavirus on Education in Developing Countries',
- 'Jordanian University Students' Views on Emergency Online Learning During COVID-19',
- 'Teachers' Engagement in and Coping with Emergency Remote Instruction During COVID-19 Induced School Closures: A Multinational Contextual Perspective'.

[ISSN: 2472 – 5730]

[Higher Education Pedagogies](#), an Open Access Journal.

[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.

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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.

[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.

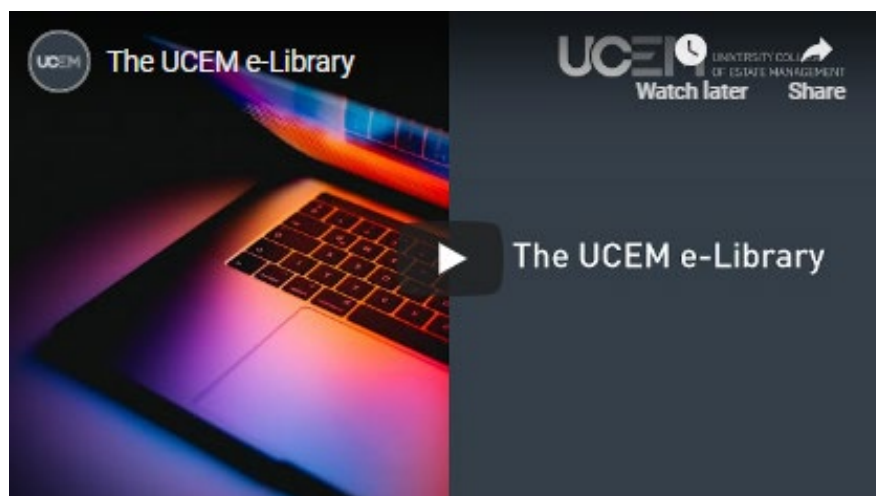
Directory of Open Access Books (DOAB)

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



© UCEM 2021

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.

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.



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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", says Lucy Roper, UCEM Information Governance Manager and who can be contacted on the library@ucem.ac.uk email address.

Supported by: The work of the UCEM e-Library is endorsed by Emerald Publishing Ltd:



© Emerald Publishing 2021

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.

[Access UCEM Career Services](#)

Building Better Property Professionals



© 2021 — Property Elite LLP

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 Assessment of Professional Competence (APC) or simply seeking engaging Continuing Professional Development (CPD).

Property Elite provides training and 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.

[Back to top](#)**This month (March 2021) the Hot Top Highlight – Measurement Tools**

In this latest blog, Property Elite discusses the Measurement technical competency, which relate to the data capture and measurement of land and property. Specifically, they look at measurement tools, limitations and how to measure accurately.

Areas covered in this blog include:

- What measuring tools are there?
- What are the limitations and sources of errors when using these tools?
- How can I calibrate my laser disto? and
- How can I measure accurately?

This is essential reading for all RICS APC and AssocRICS candidates on a wide range of pathways, including Environmental Surveying, Geomatics, Planning & Development, Land & Resources, Commercial Real Estate, Facilities Management, Residential, Valuation, Building Control and Building Surveying.

Measurement is most likely to be a core or optional technical competency on the above pathways to either levels 1 or 2. Level 3 is recommended by RICS only for 'candidates with specialist knowledge and experience or sophisticated measurement and data capture practice', e.g., candidates on the Geomatics pathway.

Further details and access to the Property Elite blog entitled, 'Measurement Tools'.**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 21st century shaping the built and natural environments.

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.

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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 2021](#), 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.

Building People



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[Enabling connections for a competent, diverse, and valued built environment workforce](#)

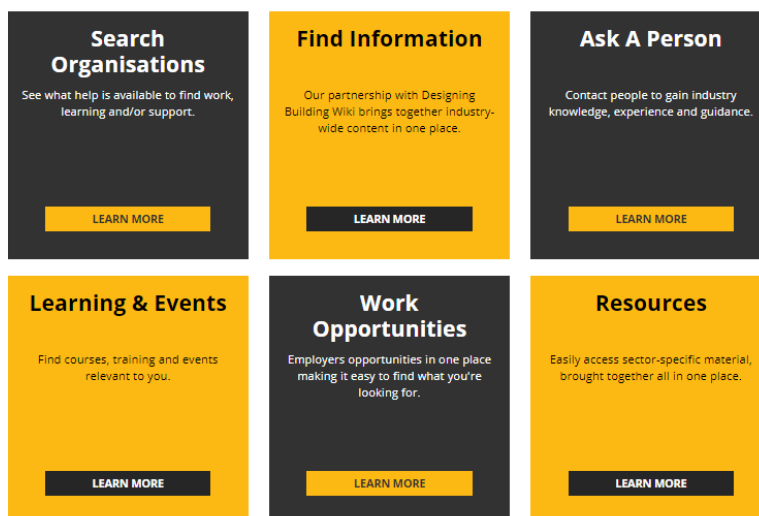
The aim of 'Building People' was to create a technology platform and collaborative network, that enables connections and seeks to reduce the skills shortages across the Built Environment.

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.

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People Wiki:

What are you looking for?



© Building People 2021

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](#)

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.

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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:



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.

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

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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? [March 2021] -

March 21 – The ICO have published new guidance on the [national security exemption](#) in Part 2 of the DPA18.

January 21 - 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.

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](#), and 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 [March 2021] -

February 2021 – The Information Commissioner's Office (ICO) is urging all organisations considering using data analytics on personal data to look at its new toolkit.

It can be found at [ICO > For Organisations > Toolkit for organisations considering using data analytics](#)

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

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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.](#)**

[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.](#)**

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

August 2020 - **[Global privacy expectations of video teleconference providers](#)**

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.

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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.

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.

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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

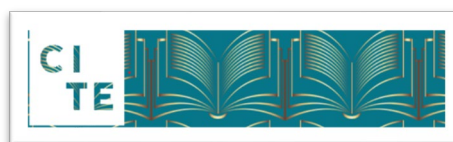
- This guidance covers the impacts on UK right holders, businesses, cultural heritage institutions and consumers.

Note: It is not legal advice.

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

Keeping abreast of the latest developments in Information Governance

Copyright & Information Technologies in Education (CITE)



© CLA 2020

As UCEM Information Governance Manager I regularly attend the Copyright Licensing Agency (CLA) 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

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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.

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.

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- **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*

- **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.

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](#).

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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:

1. **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 instructions that will be kept under review. At the end of the period then all data that is held temporarily on personal devices as a direct result of this exceptional times, will be deleted.” (Tullo 2020)
2. **Set out what use of data**, contact lists, customer documents are being allowed.
3. As part of this exceptional response to homeworking **keep a full record of where staff are working from and what equipment they are using.**
4. **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.
5. **Reissue and emphasize 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.
6. **Take care to be aware where data is being stored**, even if temporary so that the security risk is managed and assessed.
7. 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.
8. 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.
9. 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.
10. 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).

[Back to top](#)**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

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 **UCEM Website Home > 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)

“Perseverance will get you anywhere.”

@NASAPersevere / #NASAPersevere

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A to Z of useful references and web-links:

A - B - C - D - E - F - G - H - I - J - K - L - M

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

A

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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021]

BBC Search [online]. Further information available at: www.bbc.co.uk/search [accessed 25 March 2021]

BIDSTATS [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: <https://bidstats.uk/> [accessed 25 March 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 [accessed 25 March 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 25 March 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 [accessed 25 March 2021]

British and Irish Legal Information Institute (BAILLI) Case Law Search [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 25 March 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: <https://bpf.org.uk> [accessed 25 March 2021]

Building Conservation.com [online] – Information resources for conservation, restoration, and repairs. Further information is available at: www.buildingconservation.com [accessed 25 March 2021]

Building Conservation.com Articles directory by subject [online]. Available at: www.buildingconservation.com/articles/articles.htm [accessed 25 March 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 [accessed 25 March 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/ [accessed 25 March 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 [accessed 25 March 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 25 March 2021]

BRE A-Z of BRE Services (from Accreditation to Zero Carbon) [online]. Further information is available at: www.bregroup.com/a-z [accessed 25 March 2021]

BRE Case Studies [online]. Further information is available at: www.bre.co.uk/podpage.jsp?id=1744 [accessed 25 March 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 [accessed 25 March 2021]

Building talk [online]. Available at: www.buildingtalk.com [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021]

Centre for Sustainable Energy (CSE) is an independent national charity that shares our knowledge and experience to help people change the way they think and act on energy.

CSE Resources [online] include - Reports & publications, Toolkits, Advice leaflets, Websites, *Energise* newsletter, Videos on The fundamentals, Improving your community building, Community-wide energy saving projects, Neighbourhood and low carbon planning, Renewable energy projects, and further Resources for schools and educators. Available at: www.cse.org.uk/local-energy/resources [accessed 25 March 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 25 March 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 [accessed 25 March 2021]

China Dialogue [online] – China and the world discuss the environment. Available at: www.chinadialogue.net [accessed 25 March 2021]

CIOB Library Incl. Library and Information Services [online]. Available at: www.ciob.org/library [accessed 25 March 2021]

CIOB's Construction Manager journal [online]. Available at: www.constructionmanagemagazine.com [accessed 25 March 2021]

CIOB's Global Construction Review journal [online]. Available at: www.globalconstructionreview.com/ [accessed 25 March 2021]

CIOB's Policy and Public Affairs portal [online]. Available at: www.ciob.org/industry/policy-research [accessed 25 March 2021]

The CIT-eA Project Creating Innovative Technology – Enhanced Assessments – a research project that explored ways to increase the number of assessments in Further and Higher Education using technology. The CIT-eA Project [online]. Available at: <http://citea.digitalinsite.co.uk> [accessed 25 March 2021]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 23 February 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 [accessed 25 March 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 [accessed 25 March 2021]

Community-Led Housing (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 25 March 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 [accessed 25 March 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 25 March 2021]

COTAC Digital Bibliography [online]. Available at: http://cotac.global/digital_bib/ [accessed 25 March 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 25 March 2021]

Construction Enquirer is a news website in construction. Construction Enquirer [online]. Available at: www.constructionenquirer.com [accessed 25 March 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 [accessed 25 March 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 25 March 2021]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: www.ciria.org/default.aspx [accessed 25 March 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 [accessed 25 March 2021]

Construction Manager is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: www.constructionmanagemagazine.com/ [accessed 25 March 2021]

Construction News [online]. Available at: www.constructionnews.co.uk [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 25 March 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 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021].

ERES Digital Library [online] and available at: www.eres.org/index.php/activities/libraryeres [accessed 25 March 2021]

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G

Great Buildings [online]. Available at: www.greatbuildings.com [accessed 25 March 2021] provides a database of buildings around the world and across all historic periods. You can search the database by building names, place, or architect name. It provides access to 3D models, photographic images, and architectural drawings.

Glenigan [online]. Available at: www.glenigan.com [accessed 25 March 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 [accessed 25 March 2021]

Global Construction Review – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at www.globalconstructionreview.com [accessed 25 March 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: <https://cic.org.uk/projects/project.php?s=green-construction-board> [accessed 25 March 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 [accessed 25 March 2021]

The Guardian, Higher Education / Universities [online]. Further information is available at: www.guardian.co.uk/higher-education-network [accessed 25 March 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 [accessed 25 March 2021]

HSE, Health & Safety in the construction industry [online]. Further information is available at: www.hse.gov.uk/construction [accessed 25 March 2021]

HSE Publications [online]. Available at: www.hse.gov.uk/pubns/index.htm [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 25 March 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: www.srhe.ac.uk/links/higher_education_statistics_and_research.asp [accessed 25 March 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 [accessed 25 March 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 25 March 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 [accessed 25 March 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 25 March 2021]

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Inclusive Design Hub for the Built Environment is a collection of the latest guidance and best practice on inclusive design in the built environment and a project of **The Design Council** [online]. Available at: www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021]

IWFM Digital Magazine, *facilitate* - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: www.facilitatemagazine.com/ [accessed 25 March 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 [accessed 25 March 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 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021]

Leeds Beckett University's - Leeds Sustainability Institute [online]. Further Information is available at: www.leedsbeckett.ac.uk/leeds-sustainability-institute [accessed 25 March 2021]

Leeds Beckett University – The Library [online]. Available at: <http://libguides.leedsbeckett.ac.uk/home> [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021]

NBS Knowledge [online] is available at: www.thenbs.com/knowledge [accessed 25 March 2021]

NBS Publication Index [online] - this index provides information about key industry documents which are or have been available in The Construction Information Service (CIS), or cited in NBS Guidance. Further information is available at: www.thenbs.com/Publicationindex [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021]

National Trust's Land & landscape [online]. Available at: www.nationaltrust.org.uk/land-and-landscape [accessed 25 March 2021]

New Civil Engineer (NCE) a weekly magazine published for the Institution of Civil Engineers (ICE). NCE [online]. Available at: www.nce.co.uk [accessed 25 March 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 25 March 2021]

OLC's Online Learning – the official journal of the Online Learning Consortium. *Online Learning* [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 25 March 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 25 March 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 25 March 2021]

Open University (OU) UK [online] and available at: www.open.ac.uk [accessed 25 March 2021]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main [accessed 25 March 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 [accessed 25 March 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 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 25 March 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.ucem.ac.uk/student-community/property-peoples-network [accessed 25 March 2021]

Property Week – Commercial property news. *Property Week* [online]. Available at: www.propertyweek.com [accessed 25 March 2021]

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R

Regeneration and Renewal – Placemaking Resource incorporating Regeneration & Renewal magazine [online]. Available at: www.placemakingresource.com [accessed 25 March 2021]

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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021]

RIBA Library – Visit the RIBA Library [online]. Available at: www.architecture.com/contact-and-visit/riba-library [accessed 25 March 2021]

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 [accessed 25 March 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 [accessed 25 March 2021]

RICS > News & Insights [online]. Available at: www.rics.org/uk/news-insight [accessed 25 March 2021]

RICS > Upholding Professional Standards [online]. Available at: www.rics.org/uk/upholding-professional-standards [accessed 25 March 2021]

RICS Publications - RICS publishes a range of journals that are **free** to view online. Available at: www.rics.org/uk/news-insight/publications/ [accessed 25 March 2021]

RICS Library Services and Online catalogue - 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at: <https://library.rics.org/> [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 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 [accessed 25 March 2021]

UWE, Library, Search for things: A-Z [online]. Available at: www1.uwe.ac.uk/library/searchforthingsa-z.aspx [accessed 25 March 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 [accessed 25 March 2021]

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V

Virtual Training Suite - The Virtual Training Suite is a national eLearning service for Higher and Further Education in the UK, offering FREE "teach yourself" tutorials delivered over the Web, for students, lecturers and researchers who want to learn what the Internet can offer in their subject. This is a public service from **JISC**.

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 25 March 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 25 March 2021]

(Note: The web-links provided were correct at time of compilation.)

UCEM e-Library - The UCEM e-Library has a searchable database ([e-Library > section 9](#)) containing circa 1,000 [Useful web-links to e-Resources](#) for all subject areas covered within our programme of studies, pertaining to the built environment profession and the education sector.

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