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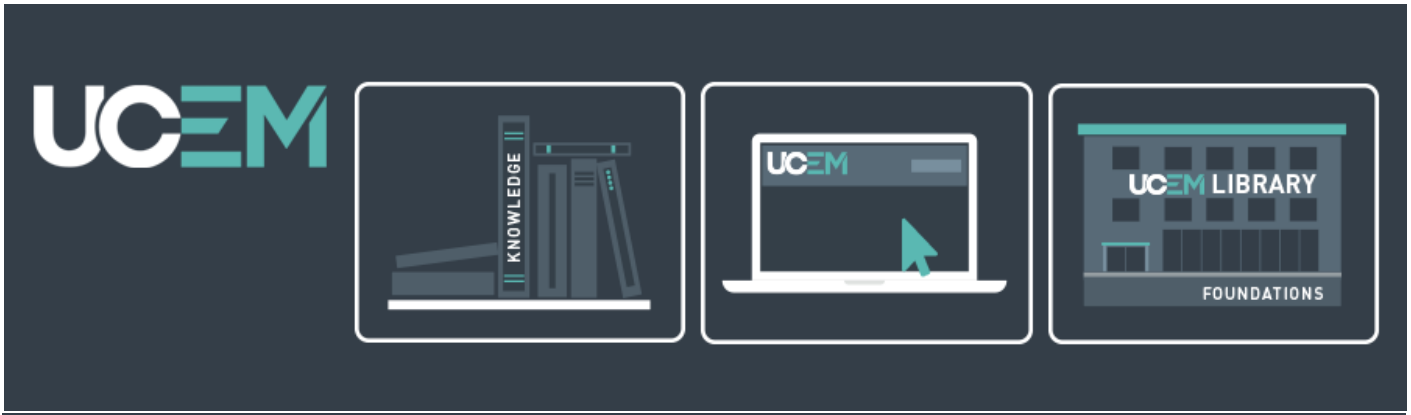

Knowledge Foundations

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What's in this month's issue

- **Latest UCEM News** incl. UCEM Graduation: UCEM's class of 2020 celebrated at Reading Town Hall.
- **Things you need to know this week** – Government allocates £8.6 billion for affordable homes. Allocations to strategic partners are set to deliver almost 120,000 homes, around half of which will be for ownership.
- **Latest Research** from JRF, CABE, CBRE, CIOB, RICS, Savills, SI, and more.

Happy Reading!

Issue 9 – October 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

UCEM's class of 2020 celebrated at Reading Town Hall

Graduates donned mortar boards and gowns at a UCEM graduation on Saturday 4th September – the first such event held by UCEM since 2019.

More than 170 graduates from the class of 2020 were joined by friends and family at Reading Town Hall to celebrate their academic achievements.

A postgraduate ceremony was held in the morning and the undergraduate equivalent was hosted in the afternoon with more than 300 guests in total attending the ceremonies.

Attendees wore masks and graduates doffed their caps when called on stage in lieu of the traditional handshake with UCEM Principal, Ashley Wheaton, with the modifications made to make the event COVID-safe.

Ashley addressed the graduands at both ceremonies with the Chair of the UCEM board of trustees, Amanda Clack, the guest speaker.

Several awards were announced with graduates recognised for their perseverance in completing their studies despite personal challenges, excellence in dissertation-writing themed on sustainability and attaining the highest score in their individual programmes, respectively.

Two honorary fellowships – a highly prestigious award which does to distinguished individuals who have given service or made an exceptional contribution in support of the institution – were awarded. Graham Hough, who served as an academic at UCEM for 20 years, and Peter McCrea, who is Chair of RICS Lionheart and a member of the Upper Tribunal (Lands Chamber) and studied with UCEM, were the new inductees.

Sir James Wates CBE, a former trustee and Chairman of the Wates Group, was awarded an honorary fellowship in absentia.

An honorary degree – which goes to people who have had a transformational influence on the built environment – was awarded to former Savills Chairman, Victoria Mitchell, BRE Group Chief Executive, Gillian Charlesworth, was the second honorary degree recipient in absentia.

UCEM Deputy Principal and University College Secretary, Jane Fawkes, commented: "It was wonderful to be at Reading Town Hall for a graduation ceremony and celebrate with our graduates and their guests again.

"The past 18 months have been incredibly difficult due to the

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COVID-19 pandemic and I am thrilled that we have been able to put on an event for those graduates whose ceremonies were postponed last year. Ideally, this would have been held at a time when our overseas graduates could also join us but hopefully this can occur at the graduation planned for December 2021."

"I am always amazed at the fortitude of our graduates in completing their studies with us, often whilst in full-time employment and with family and other commitments too, and I would like to pay particular tribute to the class of 2020 for being the first cohort to have done this with the additional challenge posted by the COVID-19 pandemic. Their resilience and commitment to their profession is truly inspiring."

Access the article '**UCEM's class of 2020 celebrated at Reading Town Hall**' in full.

UCEM tutors inspire secondary school students with real estate workshop

Young minds were inspired by a taste of working within the real estate industry after two UCEM tutors led an interactive workshop.

UCEM real estate programme leader, David Hourihan, and UCEM real estate and management tutor, Dr Jan Wilcox, tasked students at Bulmershe School with designing a redevelopment scheme within a time limit. Last month's (July 2021) workshop, run over Zoom, saw four groups of students from years 10 and 12 present their scheme to David and Jan, who, as members of a fictional town council, judged the best scheme.

UCEM student outreach manager, Nikki Bulteel, facilitated the opportunity which was organised by the Urban Land Institute as part of its UrbanPlan UK initiative designed to generate interest I real estate for 15-18-year-old students.

David reflected: "It is a really nice example of UCEM promoting the real estate industry to the next generation and of UCEM connecting with secondary school students.

"I am not sure who felt more inspired afterwards, the students or Jan and I! We were both very impressed. They were a great group of students."

Jan added: "For me, despite it having to take place on Zoom, I really enjoyed seeing how fully engaged the students were in their tasks. The sheer energy created in the room as they worked together was inspiring.

"I was particularly impressed with the way they were able to produce such professional presentations in a very tight time period. They were also very quick to answer our questions in a reflective and persuasive way.

"I wish UrbanPlan has been around when I was at school as, if so, I would have gone straight into working in the built environment!"

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For more information visit **UrbanPlan UK**.

Access the article '**UCEM tutors inspire secondary school students with real estate workshop**' in full.

City 2040. The pressures on UK cities: An opportunity for change

© UCEM 2021

- The days of clogged sweaty commutes, ferrying workers into a single city centre could be numbered, according to a new study.

New research released on 13th July 2021, *City 2040*, proposes how UK cities need to change post-pandemic enabling the real estate industry to flourish over the next 20 years, and use these changes to benefit both the environment and the wellbeing of people.

Key elements of this vision include adapting single city centres to broaden their appeal, and the addition of smaller hubs within a city's bounds. This will create more localised areas with unique identities and more widely accessible urban green space, all of which will benefit the environment.

The research, released by international law firm, Taylor Wessing, together with think tank, the Edge, and UCEM, harnesses ideas offered by 600 academics and experts drawing conclusions and new solutions for industry professionals to consider.

The trio of organisations created the research to deliver for the first time a holistic vision, informing best practice for cities across the UK to support government bodies and policy-shapers, property investors and developers, space creators and curators.

City 2040 aims to:

- assist policymakers by setting out a shared vision for UK cities looking ahead to 2040
- recommend a series of innovative approaches and solutions to support well-integrated city-making with lasting benefits for us all, and the industry.

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Research included reviewed literature and also contributions from groups of expert industry leaders who came together to debate views and share ideas pre-launch.

UCEM Principal, Ashley Wheaton, commented: “Not only is UCEM the leading provider of supported online education in the built environment but the institution, under our current leadership group, is increasingly a driver of change in the sector. Where opportunities exist to create a better built environment, we will take them, and the publication of *City 2040*, created alongside Taylor Wessing and the Edge, is a powerful example of this.

“We can’t afford to wait any longer when it comes to driving sustainable change, and this is one of the key features of the publication which we hope will lead to actions taken to ensure UK cities are dynamic places to live and work in.”

Taylor Wessing partner Adam Marks, who led on the project, said: “COVID-19 has acted as a reset for how we think about the way we work and live. Our built environment must reflect this.

“The pandemic has accelerated this change, but it isn’t the only factor influencing how we live and work. We also have a climate crisis, and as we rebuild and reassess our futures, we must use this opportunity to make changes which benefit all of us and our planet.

“By focusing on four of the distinct themes prominent throughout the results of our research together, *City 2040* sets out a vision for how this can be done. Our aim is to provide more clarity to some of the white noise on city development, deliver new solutions and offer alternative options to support how our cities are shaped more effectively to serve our future.”

Simon Foxell, from the Edge, added: “*City 2040* offers a hopeful vision of how cities, including London, could look in 20 years’ time.

“A city built and adapted to this vision could be a welcoming and inclusive place for all. Great cities like London have been known to fail on the equity front, making life harder for our most disadvantaged communities.

“A growth plan, which takes into account the needs of all, is the best way forward.”

To read the research report in full, head to the UCEM **‘Latest publications’ webpage**.

Access the article ‘**New research sets out vision for UK cities in 2040**’ in full.

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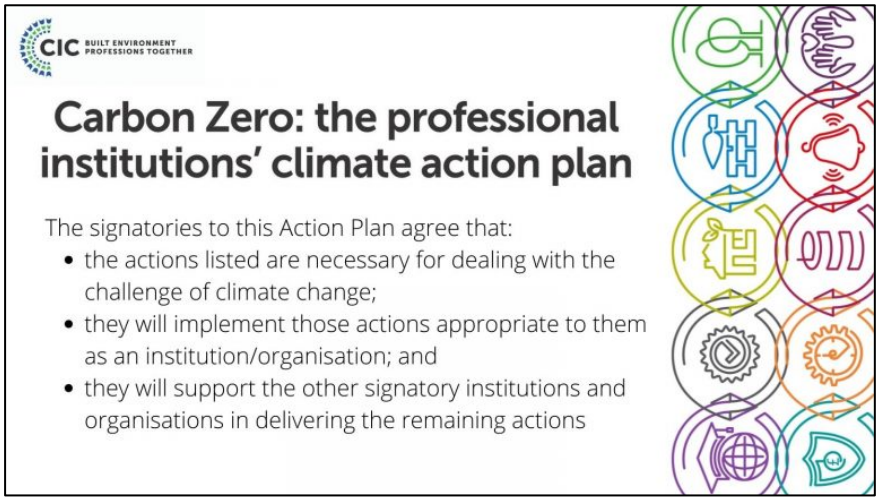
UCEM signs up to CIC's new 'carbon zero' climate action plan

UCEM is one of the institutions which has signed up to the Construction Industry Council's (CIC) new climate action plan.

The document, entitled 'Carbon Zero: the professional institutions' climate action plan', was released last week and coordinates the efforts of built environment institutions in meeting the UK government's 2050 net zero emissions target.

CIC's Climate Change Panel, chaired by its deputy chairman, Stephen Hodder MBE, led on the initiative, with signatories to the plan agreeing that:



© CIC 2021

To read the plan, head to the **CIC news story – 'CIC launches a Carbon Zero climate action plan for Professional Institutions'.**

Access the article 'UCEM signs up to CIC's new 'carbon zero' climate action plan' in full.

UCEM joins campaign to drive better gender balance at board level

UCEM is now a member of the 30% Club – a global campaign with chairs and CEOs of the world's biggest companies committing to better gender balance.

The 30% Club's mission is to reach at least 30% representation of women on all boards and senior leadership teams globally – an objective that aligns with UCEM's strategic objective to widen participation.

As an employer with a Board of Trustees with 50% female representation, UCEM is keen to advocate for greater gender balance, as well as increased diversity and inclusion at board level across organisations.

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UCEM Principal, Ashley Wheaton, and UCEM Chair, Amanda Clack, are the institution's representatives in the 30% Club.

Ashley commented: "Gender balance is just one of the areas covered in our Widening Participation Strategy. We are fully committed to bringing greater diversity to the built environment by increasing the numbers of diverse students we educate. This is not only part of our plan but is a yardstick by which the entire higher education sector is judged.

"Joining the 30% Club, therefore, allies' actions to words and, whilst the campaign's headline mission is related to gender balance, further down the line, there will be efforts to increase diversity and inclusion in other ways. I look forward to working with the organisation to drive change in boardrooms across the UK."

Amanda added: "Diversity and inclusion is something I am very passionate about. I have worked in a male-dominated industry and worked at the highest level, but it isn't commonplace for boardrooms to have even 30% female representation.

"Now, as Chair of a Board of Trustees where the male-to-female ratio is 50:50, we are keen to support initiatives which level the playing field, and the 30% Club is a great example of an organisation attempting to influence widespread change using a top-down approach."

When the 30% Club launched in 2010, the percentage of women on FTSE 100 boards was 12% and this spawned the initial aim to increase this to 30%.

Access further information about the 30% Club,

Access more information on UCEM's diversity and inclusion objectives

Access the article 'UCEM joins campaign to drive better gender balance at board level' in full.

Other UCEM News

COVID-19: UCEM Management response to COVID-19

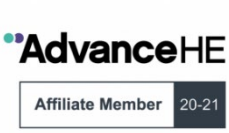
Our sincere thoughts are with those affected by COVID-19 and its impact around the world.

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 😊. 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

UCEM adopts IHRA's definition of antisemitism, and

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 looks at the Institution's *Vision and Strategy* brochure**

Keep abreast of the latest UCEM News and events – and read our blog to keep updated on Building Environment industry nsights, student case studies, and thoughts from UCEM Principal: Ashley Wheaton

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Other News

Things you need to know this week: Government allocates £8.6 billion for affordable homes.

- Allocations to strategic partners are set to deliver almost £120,000 homes, around half of which will be for ownership.

Almost 90 councils, housing associations and developers have been awarded £8.6 billion funding to deliver almost 120,000 homes under the first allocation of the government's Affordable Housing Programme for 2021 to 2026. Around half of the homes set to be delivered by these strategic partners will be for ownership, with just under 30,000 being for social rent and just over 6,000 being affordable rural homes. The allocation is part of the overall Affordable Housing Programme, which has £11.5 billion funding to deliver up to 180,000 homes. Just over £5 billion of the current allocation will go to development outside London. Homes England has named 31 strategic partnerships with 35 organisations that will share in the £5 billion, with the largest allocations – at £250 million – going to Abri, a partnership of Guinness and Stonewater, Hyde Housing, Places for People and Platform. The remaining £3.46 billion is allocated to London, where it will provide just over 29,000 homes.

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Other developments include –

- West Midlands Combined Authority (WMCA) has confirmed an investment package to kickstart the development of nearly 400 homes and new commercial space at three derelict sites, in Coventry, Nuneaton and Wolverhampton.

- Housing provider Notting Hill Genesis has partnered with developer Hill Group to deliver a 780-home scheme in Hounslow, west London.

- Housing association One Housing is pushing ahead with an estate regeneration that is set deliver 280 new homes on the Isle of Dogs, in east London, after 87 per cent of residents voted in favour of the plans in an estate ballot.

- South Ribble Borough Council has announced the design team to help drive the next phase of Leyland's town centre regeneration.

- Housing bodies the Chartered Institute of Housing, National Housing Federation and Shelter are among 14 members of an expert group created by the government to advise on improvements to the social housing sector.

- Southwark Council has appointed architects Farrells and Gbolade Design Studio and landscape architect Exterior Architecture to prepare a design code for an area around the Old Kent Road, in a project that will be part of the government's National Model Design Code (NMDC) pilot.

- Architects and students have been challenged to design a 'post-Covid' town house in a design competition taking place as part of the inaugural Liverpool Architecture Festival.

Read the full 'Need to Know: Government allocates £8.6 billion for affordable homes' article.

(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').

Case Study: Enabling skills training alongside regeneration

- A skills academy has been established to help maximise the employment potential of Thamesmead's 30-year regeneration programme, writes the author of this article.

Developers and contractors today must find ways of bringing value to their work on sites, looking beyond the delivery of much-needed new homes. Engaging and supporting local people is a critical consideration and one that is central to delivering long term sustainable communities and creating places that keep giving back, after the build has finished.

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At Thamesmead, in south east London, a major regeneration led by housing association Peabody which will deliver 20,000 homes over 30 years, one such innovation is starting to bear fruit. Built by construction company Durkan, the Construction Skills Academy is a way to maximise training opportunities for young people, help existing residents into work and add to the workforce on a site that will be a hive of activity for years to come.

Providing training opportunities has been a part of the work in Thamesmead since the regeneration began. While this is a crucial and worthwhile part of any development, the long term and large-scale nature of the Thamesmead project will mean there is a regular pipeline of apprentices and new workers over several decades. With this in mind, the project team saw an opportunity to build a dedicated centre to host those looking to gain skills and qualifications across the development.

Located on Titmuss Avenue, at the heart of Thamesmead, was a former police station. With work already under way on the wider site, the chance to renovate this building provided the project team with an opportunity to find a base for the Construction Skills Academy, where the next generation of staff could be trained.

Police station to academy

Over a 24-week construction process, the disused station on the site was refurbished and transformed for use as the training centre. This required extensive works to bring the building up to scratch, as it had not been used for two years. A full electrical rewire was needed, in addition to the installation of new mechanical equipment, including air conditioning and mechanical ventilation with heat recovery (MVHR) units. The roof also needed to be taken off and replaced completely, and internally a full redecoration and construction of partition walls was undertaken. A further challenge was the presence of asbestos in the ceilings, which had to be carefully removed to ensure the safety of both on-site workers and future students.

The refurbishment, carried out by Durkan, was made possible by the combined expertise of Peabody, Durkan, manufacturer St Gobain and consultant Potter Raper. A scheme had to be devised that was effective, feasible and fitted budget parameters. To avoid any cost barriers to the project, Durkan delivered the site at cost, in addition to carrying out survey work to ensure the safety of the building pro bono.

The team has also worked closely with international not-for-profit training organisation, YouthBuild Ventures UK, to bring forward the training academy. The YouthBuild programme is designed to provide young adults in local communities with the chance to build a career in the construction sector. Already in operation in 23 countries around the world, the company’s work at Thamesmead, including the operation of the academy, was a vital part of its UK rollout.

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Participants spend part of their time on site, carrying out repair and building work around Thamesmead – aiding the regeneration of their local community while picking up valuable construction experience and working towards qualifications. They spend the rest of their time at the Titmuss Avenue building, carrying out the academic training element towards their qualifications.

As well as a training base, the academy also acts as a community centre at the heart of the Thamesmead regeneration. The aim was to create a one stop shop for enterprise, employment, education, and youth programmes. While this relates to construction qualifications it extends to offering employability and life skills – with one-to-one mentoring and counselling available for every trainee coming through the programme. Thamesmead is a project that will take 30 years to complete, meaning that cohorts coming through will also have access to the experience of those who know about the programme in detail or have gone through it themselves. Following the completion of their qualifications, every trainee is considered for further apprenticeships or employment opportunities in the Thamesmead supply chain.

The results

Forty graduates have now completed the training programme since it began in January last year. Ninety per cent of these students have progressed into employment in the construction industry, many now working on the Thamesmead site.

The graduates include 25-year-old Sodiq Saka, a Thamesmead resident who had spent time before the YouthBuild programme trying to start a career in construction but hadn't been able to gain a foothold. As a direct result of the programme, he is now working on the site in a scaffolding traineeship with scaffolding company BMS – his first full time job.

When Saka came on to the programme, his biggest barrier was securing work in the field. A lot of the time, he found he was rejected, despite having qualifications to back him up. Saka then accessed the services of YouthBuild, where he benefitted from more holistic support, gained strong leadership skills, and built confidence. He provides one example of what this programme has achieved in providing opportunities for local people to start a career in construction.

Read the Case Study entitled, 'Enabling skills training alongside regeneration' 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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Analysis: Can government help grow England's self-build sector?

- A government backed review is the latest in a series of interventions to help grow custom and self-build housing. The author of this article takes a look at the sector's progress.

There is the potential for self-builders to boost the UK's housebuilding total by delivering up to 40,000 homes a year. That is the vision put forward by the government in its **Self and custom build action plan** this spring and confirmed by the independent review into scaling up self and custom housebuilding carried out by MP Richard Bacon for the government.

The prime minister asked Bacon to assess the opportunities and barriers in growing the sector, as part of its drive to bring greater competition and innovation to a UK housebuilding industry dominated by a small number of big businesses offering limited product choice. Bacon's conclusions, published in August 2021, have already been welcomed by housing secretary Robert Jenrick.

This is not the first time the government has intervened to try to expand the custom and self-build sector. Legislation introduced five years ago requires England's local authorities to keep and publicise a register of people and associations wanting to build homes in their area and to consider their needs. This has resulted in significant numbers of people signing up to registers – estimated to total around 50,000 by 2020 - but still no more than 10 per cent of England's total completions are delivered via this route, at around 13,000 homes a year. These numbers are dwarfed by some European countries where custom and self-build accounts for up to 60 per cent of new homes.

"The number of homes delivered via this route is increasing slowly, but not as fast as other forms of housebuilding in the UK, and most people are still not thinking of it as an option," acknowledges Andrew Baddeley-Chappell, chief executive officer of the National Custom and Self Build Association (NaCSBA), a body promoting custom and self-build in the UK. "The real challenge in the UK is access to permissioned land and that has become increasingly hard."

In April the government launched a Help to Build scheme, providing more than £150 million of equity loan funding to help self-builders overcome the barrier presented by upfront costs. Bacon's **Independent review into scaling up self-build and custom housebuilding: report** seeks to address challenges of land access and lack of public awareness through its six recommendations. They are to:

1. Create a custom and self-build housing delivery unit in Homes England, to support the creation of serviced plots on small and large sites and delivery at scale

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2. Raise public awareness, notably by creating a show park of home designs, to be delivered by Homes England in partnership with industry
3. Support community, diversity and levelling up through the Community Housing Fund. The government has already acted on that, introducing a grant funding pot of £4 million to help communities meet essential costs in administration, design, and planning
4. Promote greener homes and increased use of modern methods of construction
5. Align custom and self-build changes with planning reform, particularly in maximising opportunities for access to permissioned land for custom and self-build
6. Iron out tax disadvantages to level the playing field between custom and self-build and speculatively built homes.

Baddeley-Chappell, who was involved in the review's genesis, says its findings are, "balanced and sensible". He continues: "It is not asking for a lot of money or preferential treatment; it recommends a series of changes that could make a real difference". Its findings have also been welcomed by others. Federation of Master Builders (FMB) chief executive Brian Berry has said, "Fifty-six per cent of FMB house builder members build only as contractors, and the majority build to the designs and specifications of a consumer. The biggest constraint they face is access to viable small sites on which to build. So, I welcome the review's focus on the supply of land". Alan Jones, president of the Royal Institute of British Architects, has said, "By supporting more people to design and construct their own home, we will not only boost supply, but grow the proportion of bespoke homes that support higher levels of wellbeing and contribute more positively to local areas".

But will the latest set of recommendations really deliver the step up in numbers the government wants? "Some countries are delivering 100,000 homes, so on that measure 30,000 to 40,000 is quite conservative," says Baddeley-Chappell, adding, "It is going to take time for the market to respond, so it will take a number of years for the market to grow to that level." And if it can, then it stands to benefit the wider housebuilding sector, he points out. "At some point housebuilders will need to respond with more choice and the lines between self and custom build and housebuilding will be blurred," he says. "All of this must be about diversity and choice."

Further information and read the article,'Analysis: How town deals are taking shape' 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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Also:

UK sets 'most ambitious' climate target to cut emissions by 78% by 2035

[Image: courtesy Ed Hawkins]

(Climate stripes as shown is this image are sometimes referred to as warming stripes, or climate timelines and are data visualization graphics that use a series of coloured stripes chronologically ordered to visually portray long-term temperature trends.)

- The UK government has set the 'world's most ambitious' climate change target into law to slash emissions by 78% by 2035 compared to 1990 levels.

Access further information and the *PBC Today* article, 'UK sets 'most ambitious' climate target to cut emissions by 78% by 2035', in full.

Please visit the 'Sustainability Hub' within ***Knowledge Foundations*** for further information and related articles that include '**Countdown to COP26' - the UN Climate Change Conference UK 2021.**

Coronavirus – latest developments [September 2021]

LIVE News Latest – Covid-19: Most restrictions lift in England as cases rise

Summary (Note: see publication date)**:**

- A further 37,622 coronavirus cases have been recorded in the UK, according to the latest statistics,
- Another 147 deaths within 28 days of a positive test have also been recorded,
- The scientist behind the Oxford vaccine says there is evidence of "strong maintenance" of immune response in vaccinated people,
- But she says it is "too simplistic" to ask whether booster jabs should be given in the UK over giving doses to other countries,
- The UK can both give boosters and help other nations vaccinate, the prime minister's spokesman says,
- The competition watchdog says the government needs to apply tougher standards to its list of approved Covid test providers,
- US President Biden says employees at large companies must be vaccinated or face weekly testing,
- Customer in Northern Ireland will be allowed to order at the bar again later, as Covid rules ease,

Access the BBC News, Latest LIVE Coronavirus news feed

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Related Links: 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 to 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.

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 were 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.

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

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)**

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)**

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

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

Read the *Construction Manager* article 'Will Covid-19 accelerate construction's digital transformation', in full.

Related link:

What will the post-pandemic office look like?

- 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. *'*

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

© Emerald Publishing 2021

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

Emerald collated research and the management of epidemics and made it freely available to assist practitioners and researchers who

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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**

The impact of Covid-19 on tourism

Latest News: *Construction Manager* (CM) [September 2021]

Grenfell: 'Insufficient' information for cladding warning after 2009 Lakanal fire

- A government advisor told fire and rescue services that there was "insufficient information" to warrant an alert to housing authorities over the risks of certain types of cladding following the 2009 Lakanal House fire in London.

The Grenfell Tower Inquiry heard that in 2009, following the death of six people at the blaze in Camberwell, the London Fire Brigade (LFB) commissioner Rob Dobson wrote to the chief fire and rescue adviser to the Department for Communities and Local Government Sir Ken Knight about the issue.

Access and read the article in full,

Gerrard, N (2021) 'Grenfell: "Insufficient' information for cladding warning after 2009 Lakanal fire', *Construction Manager* [online], 24 September. Available at: https://constructionmanagermagazine.com/grenfell-insufficient-information-for-cladding-warning-after-2009-lakanal-fire/ [accessed 27 September 2021]

Latest News: *Global Construction Review* (GCR) [September 2021]

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Hard rock hotel: Saudia Red Sea developer unveils resort dug into mountain

- The developer behind Saudi Arabia's vast Red Sea tourism scheme has unveiled designs for its first inland destination, a 60-key resort with hotel rooms built inside a mountain and villas embedded into crevices on its side.

Designed by Oppenheim Architecture, the Desert Rock resort sims to honour and respect the striking desert landscape.

Access and read the article in full,

Sweet, R (2021) 'Hardrock hotel: Saudi Red Sea developer unveils resort dug into mountain', *Global Construction Review* [online], 27 September. Available at: www.globalconstructionreview.com/hard-rock-hotel-saudi-red-sea-developer-unveils-resort-dug-into-mountain/ [accessed 27 September 2021]

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 podcasts **[September 2021]** surrounding sectors such as **Real Estate** that include:

Hydrogen – producing the future?
- On 17 August 2021, the UK Government presented its Hydrogen Strategy (the "Strategy") to Parliament. The 120-page document sets out the Government's ambition to develop a thriving hydrogen sector in the UK. What does it say and how might hydrogen feature in the future? Keywords – **Real estate, Cross-sector, COP26**

Nottingham – creating a sustainable city
- Nottingham is set to become an international beacon for green development as it undergoes a multi-billion-pound transformation. But how will this benefit business?

How real estate can make smart use of smart tech
- As a smart city pioneer, Leeds has led the charge in developing new technologies in recent years to improve and enhance the experience of people visiting, living, and working in the city, giving it a fantastic platform from which to grow.

The city centre and the road to net zero
- The unexpected happened in 2020. The world shut down. Physical human interaction stopped and we had to go digital.

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.

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

The future of build-to-rent market Real Estate 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; and 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, and 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; and Rent controls / regulations.

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

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

Summary - 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

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3. Universities to make investment plans to mitigate the heightened cyber security risks that arise from greater dependence on digital technologies

4. Universities to think radically about the scale and scope of their learning and teaching activities, prioritising blended learning approaches wherever possible

5. Universities to accelerate the adoption of blended learning, with close involvement of students in all aspects from design to delivery

6. Universities to ensure inclusivity and accessibilty 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

New guidance from CIRIA - Construction Industry Research and Information Association

CIRIA is pleased to announce **[**September 2021**]** 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 natils **(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

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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.

Grenfell Tower Inquiry – latest developments

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

Latest update [September 2021]

Phase 2 hearings – Hearings will resume on Thursday 9 September at 10:00.

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 – The next monthly drop-in sessions for BSRs and members of the public will be on **Thursday 23 September** from 16:30-18:00 at the Inquiry venue at 13 Bishop's Bridge Road, London, W2 6BU.

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

Latest update from the Inquiry [September 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, • **August 2021 Newsletter –** The Inquiry has published an update on its work.

Read further information from the 'Grenfell Tower Inquiry' website.

Related Links:

Cladding: Panels failed fire tests 13 years before Grenfell

- Leaked test results suggest the government and costruction industry had early evidence of the dangers posed by cladding, 13 years before the Grenfell Tower fire.

Panels, commonly used on buildings in the UK, failed fire tests carried out in 2004.the Inquiry venue at 13 Bishop's Bridge Road, London, W2 6BU.

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The results, marked “Commercial in confidence”, were circulated within an industry advisory group.

They were recently passed to the BBC (see publication date) and, until now, neve made public.

Hundreds of thousands of flat owners are now threatened with large bills because of construction materials which pose a risk in fires.

The 2004 results were among the first from a British test of full-scale building systems, developed in the late 1990s when there were growing concerns in Parliament about the risks of cladding.

The tests were part of research commissioned the then Labour government to determine what standards building systems should have to meet.

Symonds T (2021) ‘Cladding: Panels failed fire tests 13 years before Grenfell’, *BBC News* [online], 16 September. Available at: www.bbc.co.uk/news/uk-58584348 [accessed 17 September 2021]

Related Topics

Construction industry

UK fire safety

Grenfell Tower fire

Grenfell Tower Inquiry

Government details fire safety-related changes to planning system

- The government has released details of new requirements in the planning system to bolster fire safety in high-rise residential buildings, in response to the Grenfell Tower Fire.

The changes come in the Ministry for Housing, Communities and Local Government’s (MHCLG) plans to introduce ‘**planning gateway one**’, which it said would deliver on one of Dame Judith Hackitt’s recommendations following her independent review of Building Regulations and fire safety.

The new requirements aim to ensure fire safety matters as they relate to land use planning are incorporated at the planning stage for schemes that involve high-rise residential buildings.

The changes, which come into effect from **1 August 2021** will:

- involve the Health and Safety Executive (HSE) becoming a statutory consultee before permission is granted for development which involves or is likely to involve a high-rise residential building.
- require relevant applications for planning permission to include a fire statement to ensure applicants have considered fire

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safety issues as they relate to land use planning matters such as layout and access.

- help inform effective decision-making by local planning authorities or the secretary of state so that those decisions reflect and respond to the needs of the local community.

The new requirements will be introduced by making amendments to the Town and Country Planning (Development Management Procedure) (England) Order 2015.

Planning gateway one is the first of three gateways through which developments and buildings must pass. Gateway two will bolster the current building control deposit of plans with the Building Safety Regulator as the only option of building control body for in-scope buildings. Construction will not be allowed to begin until the Regulator has approved the building control application. Gateway three will provide a 'hard stop' at which the Building Safety Regulator undertakes final inspections and issues a completion certificate. All three gateways apply to multi-occupied residential buildings of 18m or more in height, or seven or more storeys (whichever is reached first).

As announced in the Queen's Speech (11 May), the Building Safety Bill is also expected to be introduced this year, which will establish a new building safety regime in England.

Further information and access to the *Construction Manager* article, 'Government details fire safety-related changes to planning system', 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. 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.

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.

UTS ePRESS is Open Access and licensed under **Creative Commons Attribution 4.0 International Licence**.

Read the full research report 'Concerns for Skills Shortages in the 21st Century.

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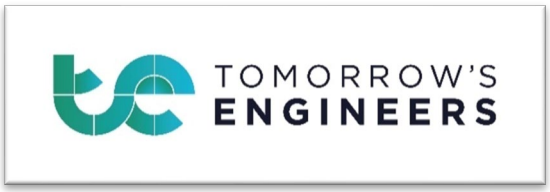
Tomorrow's Engineers



© EngineeringUK 2021

Tomorrow's Engineers brings together resources and evidence to support the engineering community in getting the most out of their engagement activity. It includes information and guidance on a range of topics curated from across the STEM community. Developed by EngineeringUK, the 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 Tomorrow's Engineers website

Women in construction: building a career in a challenging environment

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

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

RICS Market surveys – leading indicators in the real estate industry

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

- **UK Residential Market Survey** – used by government and key institutions, the Resi. Market Survey is a key indicator of conditions in UK residential sales and lettings.

- **RICS/RAU Rural Land Market Survey & Land Prices** – The RICS/RAU Rural Land Market Survey is the leading survey on demand, supply and prices in the farmland market.

- **UK Construction and Infrastructure Survey** – The leading sentiment indicator of the UK construction and infrastructure markets.

- **Hong Kong Residential Market Survey** – The Hong Kong Residential Market Survey is a leading sentiment indicator of conditions in the Hong Kong residential sales and lettings markets.

- **Global Commercial Property Monitor** – RICS global commercial property monitors are leading indicators of conditions in commercial property occupier and investor markets around the world.

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

RICS – The Future of Surveying

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

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

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

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

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

GOV.UK, National Statistics - UK House Price Index [Last updated August 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 case or with a mortgage.

Properties have been included:

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

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

The summary report contains:

- Headline statistics
- The economic statement
- Price changes

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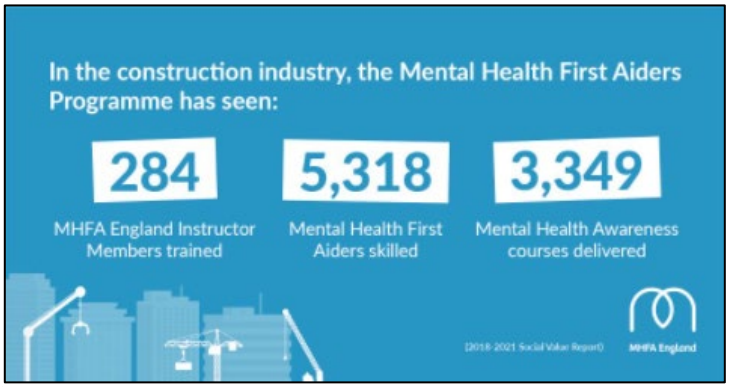
- Sales volumes
- The property status
- The buyer status for Great Britain (excludes Northern Ireland)
- The funding status for Great Britain (excludes Northern Ireland)
- Housing transactions distributions

Read the GOV.UK, National Statistics: 'House Price Index summary: June 2021', Published 18 August 2021' in full.

Tackling mental health and wellbeing within the construction industry



© MHFA England

The construction industry reports some of the highest levels of workplace mental ill health.
Over the last three years (see publication date) Mental Health First Aid (MHFA) England has been working with Building Mental Health, the Construction Industry Training Board (CITB) and the Lighthouse Club Construction Industry Charity to create a freely available, industry-wide framework and charter to tackle the mental health crisis in the construction industry.

Find out more about the social value of the programme

Related Links:

UCEM launches mental health strategy

UCEM published its first mental health strategy on 10 May 2021.

The strategy is designed to benefit both UCEM students and staff, having been written with input from both stakeholder groups.

At the core of the document is the vision which states: 'UCEM will take a whole institution approach to develop one community that enables students of all levels along with staff to prioritise mental health and wellbeing.

'The UCEM community will be an open, supportive, healthy, and well-informed environment. It will work to tackle stigma, promote positive mental health, and provide appropriate, timely and easily accessible support to those who need it.'

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There are five strategic aims supporting this vision which are:

1. to create a supportive whole university community that promotes positive mental health, and ensures mental health is a key strategic priority.
2. to ensure the UCEM community is informed and aware of the importance of good mental health and works to tackle the stigma surrounding mental health.
3. to ensure appropriate and timely support is provided to those who need it.
4. to develop links with external support services and stakeholders
5. to use data to evaluate and monitor the effectiveness of mental health interventions and inform future strategic development.

For more details, take a look at **UCEM's mental health strategy document**.

Access the article '**UCEM launches mental health strategy**' in full.

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, & 'CIOB surveys the sector to gather data on mental health & stress'

How can buildings have positive impact on wellbeing?

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

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

Read the *Construction Manager* article entitled, 'Samaritans to work with roofers on mental health' 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. **Where to access further information support**: **BBC Action Line** [online]. Available at: bbc.co.uk/actionline. Telephone: 0800 066 066
Access MIND's article, entitled 'Coronavirus and your wellbeing'.

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

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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,

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,

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- 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 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.

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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

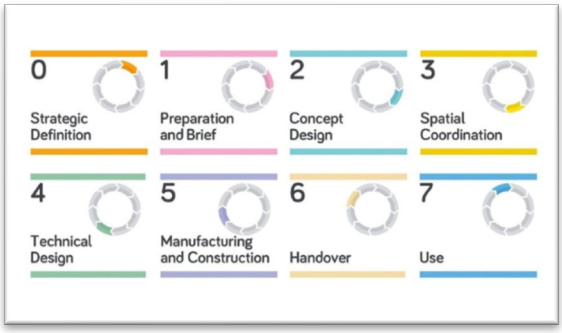
4 – Technical design – no change

5 – Manufacturing and construction – formerly Construction

6 – Handover – formerly Handover and close out

7 – Use – formerly in use

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'

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- 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)

UK BIM Framework – BIM Standards, Guides and Resources - the overarching approach to implementing BIM in the UK, brought together by UK BIM Alliance, BSI and CDBB. The guidance is structured as indicated below:

Guidance Part 1 and **Guidance Parts A-F** support the implementation of the overall published ISO 19650 series. **Guidance Part 2 and 3** pick up on content specific to ISO 19650-2 and ISO 19650-3 respectively. Additional **guidance** is also available as part of the **UK BIM Framework** to support the transition to ISO 19650 and Government Soft Landings

Access UK BIM Framework - Resources

Latest BIM+ News and Projects [September 2021] –

- **Project: BIM software drives net zero social housing retrofit,** 23rd August 2021.

  - Wide and varied use of BIM software from Graphisoft has played a key role in architecture practice Constructive Thinking's part in the net zero retrofitting of social housing stock for Nottingham City Council.

  Client: Nottingham City Council; **Main contractor:** Constructive Thinking; **Consultant:** EnergieSprong

  Retrofitting existing homes to make them more energy efficient has been identified as a key factor in helping the UK to meet its net zero targets by 2050. As a result, councils and social housing providers are working to identify the most efficient and effective ways to retrofit their vast and varied housing stock.

  In line with the government's plans to decarbonise the UK's housing, the Department for Business, Energy, and Industrial Strategy (BEIS) has released grant funding to support research into innovative solutions to tackle this challenge.

  Using Graphisoft's Archicad, architecture practice Constructive Thinking has worked with a number of councils around the UK and Ireland to develop and test whole-house retrofit schemes across numerous housing projects. There were designed to efficiently scale up to improve housing standards and energy efficiency, effectively delivering much broader benefits than a reduction in carbon emissions.

  Pilot projects in Ireland and on Merseyside resulted in an average 5oC increase in a typical home's internal temperature, a reduction in fuel poverty, less illness and fewer GP visits, and reduced incidence in people moving home, thereby reducing the cost of rehoming residents borne by housing providers.

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Also covered within this article are the following subject areas:

- **Working through lockdown –** In January 2020, just before the covid-19 pandemic hit and the UK went into lockdown, Constructive Thinking started work on a BEIS-funded project with Nottingham City Council and net zero retrofit specialist EnergieSprong to develop solutions for the whole-house retrofit of 96 homes.
- **Automating design –** The properties refurbished for this project had been constructed from a cross-wall housing system, a form of prefabricated construction used through the UK during the 1950s, 60s and 70s. The properties were built from pre-cast concrete, with timber infill panels.
- **Improving communications –** Despite the covid-19 pandemic, with the help of Graphisoft's technologies, Constructive Thinking was able to work remotely and collaborate effectively. For client meetings, the team shared Archicad screens using Zoom or Teams and was able to talk through the building descriptions with groups of people involved.
- **Better client engagement –** In addition, Constructive Thinking used Graphisoft's virtual reality software to show the client at Nottingham City Council the designs. BIMx is accessible via a desktop, tablet, or mobile device, so models can easily be viewed on-site and remotely.
- **Calculating energy performance –** EcoDesignerSTAR is an add-on to Archicad that performs energy assessments and simulations such as thermal bridge calculations and building energy performance ratings to inform decision-making. Users can take multiple reports from the same model and compare changes and revisions to help inform and explain design decision.
- **From model to factory –** Once the model was complete, Constructive Thinking sent the designs to the insulation company for panel manufacture. By scanning the properties and modelling in Archicad, Constructive Thinking was able to send the exact dimensions for each panel electronically by IFC to the factory.
- **The next steps –** Following the success of the pilot at Nottingham City Council, the council has secured further funding from BEIS to retrofit more properties using the solutions and processes developed by Constructive Thinking using Archicad.

Other BIM+ Projects include:

- **Project: BIM approach helps Stoke Council get utility project back on track,** 25th June 2021.

  - A local authority, and in line with public sector requirements to be carbon net-zero by 2050, Stoke-on-Trent City Council embarked on the construction of a city-wide low carbon heat network in 2017, which includes 18km of underground pipes.

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Client: Stoke-on-Trent City Council; **Main contractor:** Vital Energi Utilities; **Consultant: 3**D Technical Design

- **Project: How 4D helped Mott MacDonald Bentley save 20 days on major pipeline project,** 16th June 2021.

  - 4D modelling was crucial on a major civils project for United Utilities in Cumbria, proving and improving upon a challenging construction programme that was 20 days quicker than the original plan.

  Client: United Utilities; **Main contractor:** Mott MacDonald Benley; **4D consultant:** 4D Freeform

- **Project: 8 Bishopsgate: BIM and Hololens aid riser safety,** 3rd June 2021.

  - Digital technology and an innovative riser zone product helped make M&E installation safer on the City of London's latest skyscraper. BIMplus reports.

  Client: Mitsubishi Estate London; **Main contractor:** Lendlease; **Specialist contractors:** AT. Clarke, MJL, Hall & Kay, Gardener & Co. Keltbray Structure, William Hare; **Architect:** Wilkindon Eyre

- **Project: Digital tech fundamental to Luton DART delivery,** 27th May 2021.

  Client: London Luton Airport; **Main contractor:** VolkerFitzpatrick Kier JV; **Transit system:** Doppelamyr; **Structural designer:** Hewson Consulting Engineers

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.

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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 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-

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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 Stavenger 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.

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 **[September 2021]** of NBS CIS *Insights* focuses on – **Inclusive design and the RIBA Plan of Work, and covers**:

- What is inclusive design?
- Legislation and protected characteristics, and
- Inclusivity and the RIBA Plan of Work 2020.

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Built Environment Research

Latest Policy and Research from:

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

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- 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.

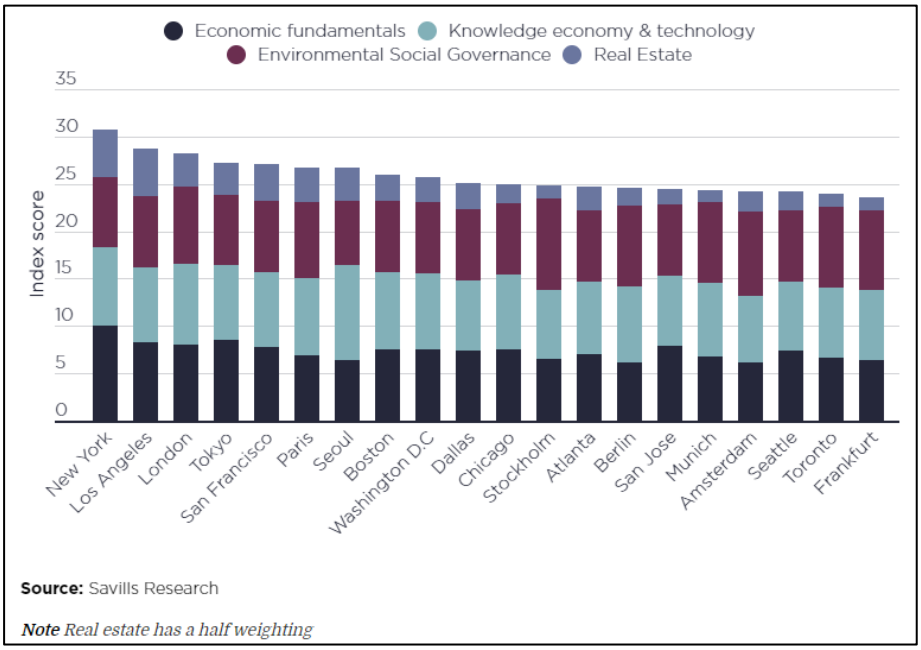
[Latest: June 2021] - *Impacts: Saills Resilient Cities 2021*

- The Savills Resilient Cities Index identifies the cities best placed to adapt to change

A city's ability to evolve is crucial. But which ones are best positioned to succeed? Savills Resilient Cities Index assesses 500 cities based on their economic strength, their knowledge economy and technology, environmental resilience, and real estate. We explain how gateway cities such as New York, Tokyo and London maintain their status, and why ESG, investment and education are helping cities such as Stockholm, Seoul and Amsterdam climb our top 20 ranking.

Global megacities dominate the top of the index thanks to strong economies and real estate markets. Cities that score highly on education and ESG are climbing the ranking.

Savills Resilient Cities Index, top 20



Source: Savills (2021) *Savills Resilient Cities 2021* [online].

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Our (Savills) Metrics for What Makes a Resilient City

1. **Economic fundamentals**:
   An economy of scale, with high personal wealth and strong demographics.
2. **The knowledge economy and technology**:
   High value-add employment, quality education and innovation in business.
3. **Environment, Social and Governance (ESG)**:
   A society which values sustainable environmental practices, has access to good healthcare, and is inclusive and fair.
4. **Real estate**:
   A liquid and readily invested real estate market.

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

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

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Read the latest Issue – 3, 2020 of *Impacts: The Future of Global Real Estate',* in full.

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

Read the full Savills Impact Publication 'The Impact of Covid-19 on real estate', 2020'

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

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

Savills **Covid-19 Resource Hub**

2) Joseph Rowntree Foundation (JRF) -

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

UK Poverty 2020/21

Related topics – Housing; Work; Income and benefits

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

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 out 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.

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

Read the JSR report entitled, 'UK Poverty 2020/21' in full

Related Links:

Read the 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.

JRF Spring Budget 2021 analysis

JRF Analysis of the 2020 Spending Review

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, lecturers, education, and their website, the Institute offers a platform for thought leadership on a wide range of topics.

Planning for the recovery and the shift towards homeworking: implications for poverty in outer London
Hunter P (2021)

This report, supported by Trust for London, examines the short and long-term implications of Covid on poverty and inequality in outer London, with a particular focus on employment, low pay, housing, and the shift towards homeworking.

The report acknowledges the devastating impact that the pandemic has had on the lives of outer London's five million residents – not least on people's health and well-being – but seeks

mainly to understand the after-effects and explore the options for change.

The findings complement previous research by the Smith Institute on poverty in outer London and other London-wide studies supported by the Trust for London.

The research was undertaken in the first half of 2021 and is based on desk research, data analysis, one-to-one interviews, and roundtable discussions with the GLA, outer London boroughs and other stakeholders.

The report sets the scene regarding poverty in London and outer London and then divides into two main sections: section one considers the effects of Covid and the immediate crisis, and section two explores the longer-term implications of Covid, with particular regard to homeworking and planning for change.

The report makes a series of recommendations, which are listed in full after the conclusion.

Read the full piece of research, 'Planning for the recovery and the shift towards homeworking: implications for poverty in outer London'.

A National Housing Conversion Fund: buying properties to boost affordable housing supply
September 2020

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

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

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

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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 one or two housing providers. The intention of this research was to understand what the overall impact might be across multiple providers and locations. To achieve that objective the research covered 12 participating London boroughs, who collectively own over 210,000 homes – 13% of council housing in England. 1 Including data from these 12 boroughs also offered a larger sample of cases.

The study examined those making a new claim for the housing element of UC during a three-month period (July-September 2019) in the 12 London boroughs with final rental data running until December 2019. This falls after the roll-out of Universal Credit full service to all parts of London, which was completed by December 2018. It also follows a series of reforms made in 2018, including the abolition of the seven-day waiting period and the introduction of a two-week Housing Benefit (HB) run-on.
The report tells this story of financial stress through analysis of tenant rent accounts. The scale of the costs to social landlords is also apparent in escalating arrears after tenants make an effective UC claim.
By examining this impact and tracing rent behaviour over time, the analysis points towards what kind of reforms might be needed to improve UC to the benefit of both tenants and social landlords which are presented in the report.

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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 gifts we're used to having in other markets, from utilities to financial services, and looking at how we might apply those lessons to the private rented sector.

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

Making Housing Affordable after Covid-19: A follow up report from the Affordable Housing Commission
Affordable Housing Commission (2020)

- The Smith Institute's Affordable Housing Commission published a report into making affordable housing after Covid-19.

Read the full piece of research, 'Making Housing Affordable after Covid-19: A follow up report from the Affordable Housing Commission'.

Making Housing Affordable Again: Rebalancing the Nation's Housing System: The final report of the Affordable Housing Commission
March 2020

- The Smith Institute's Affordable Housing Commission published its final report and recommendations: making housing affordable again.

Read the full piece of research, 'Making Housing Affordable Again: Rebalancing the Nation's Housing System: The final report of the Affordable Housing Commission'.

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

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- **Retail** in detail,
- **Industrial** – CBRE 'shed' light on all things industrial,
- **Residential** – CBRE's 'house' vide on all things residential, and
- **Investment** – addressing the challenges and opportunities facing commercial real estate property investors

Access the CBRE website and About Real Estate Research Blog

5) 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 building, such as the landlord, will be required to appoint a Building Safety Manager.

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

Access *Safer people, safer homes: Building Safety Management*

Access the Chartered Association of Building Engineers for further information.

Access *Building Engineer* website

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

- Welsh pupils to benefit from new Built Environment GCSE,
- Delivering future-fit support for the whole profession,
- Vision for Smart Cities,
- How will FM Professionals successfully manage office space post-COVID?
- **BCIS five-year forecast,**
- **UK guidance note on residential properties with cladding**
- **Celebrating the contribution of female surveyors to 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 **September 2021**, the latest CIOB Policy and Research include:

- **Future of Construction research** – *Aiming the Construction Industry for the Future: Recruiting from the military into construction.* Also access the latest Future of Construction - ***CIOB Policy Team Newsletter – July 2021*** (9th Aug. 2021)
- **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*
- *Job Quality in the Irish Construction Sector* (22nd April 2021)
- **Education and skills research** – *Exploring the impact of the ageing population on the workforce and built environment*

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- **The Wider Built Environment** – *Understanding the Value of Professionals and Professional Bodies.*

Access the Chartered Institute of Building's Policy and Research website

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

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

Watch this quick video to find out how the House of Commons Library works
Source: UK Parliament (2020) 'How the House of Commons Library works', YouTube [video]. Available at: youtube.com.

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

Services that include Research, Resources, Training & Events,

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

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

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 **September 2021**, the latest House of Commons Library, **Research publications** incl.

1. Public spending: a brief introduction,
2. Coronavirus timeline: End of hybrid proceedings in the House of Commons, and **3.** Ministers in the Conservative Governments: 2015, 2017, and 2019 Parliaments.

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Review House of Commons Library, Research for this week

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

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

1. Education (Careers Guidance in Schools) Bill,
2. Early intervention: policy and provision, and a background paper,
3. Universities Superannuation Scheme,
4. Level 3 qualifications reform: What's happening to BTECs? and
5. Coronavirus: HE/FE return to campus in England 2021.

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

1. Disabled adaptations in leasehold flats and common parts,
2. Future of the East Midlands economy,
3. Housing Market: Key Economic Indicators,
4. Households in temporary accommodation (England), and
5. Calculating housing need in the planning system (England).

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

1. Global Britain, human rights, and climate change,
2. Oil prices, Petrol and diesel prices, and fuel poverty,
3. Electric vehicles and infrastructure; Transport decarbonisation plan,
4. COP26: the international climate change conference, Glasgow, UK,
5. Climate change: an overview, 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 Update, August 2021
- Stronger economy underpinning better tone to both construction and real estate (see publication date).

Summary:

The economy is expected to continue to grow strongly through the course of this year and next. Higher inflation becoming embedded in expectations is the key risk, but for now, markets and the Bank of England remain relatively sanguine. Construction activity is benefiting from a number of big infrastructure projects and the strength in the housing market. Meanwhile, sentiment towards commercial real estate is improving but there remains a significant divergence in performance between highly prized industrial units and out of favour retail.

Construction Sector –

The latest ONS construction data shows that output is now pretty much back to where it was prior to the onset of the pandemic. However, sector level numbers demonstrate a clear divergence between infrastructure and private housing including R&M (which are well above pre-COVID levels) and commercial and industrial (which remain someway lower). The key projects during infrastructure work at present are Thames Tideway, Hinkley Point C and HS2.

A key obstacle for the construction industry is addressing ongoing challenges in securing building materials. Chart 10 shows that

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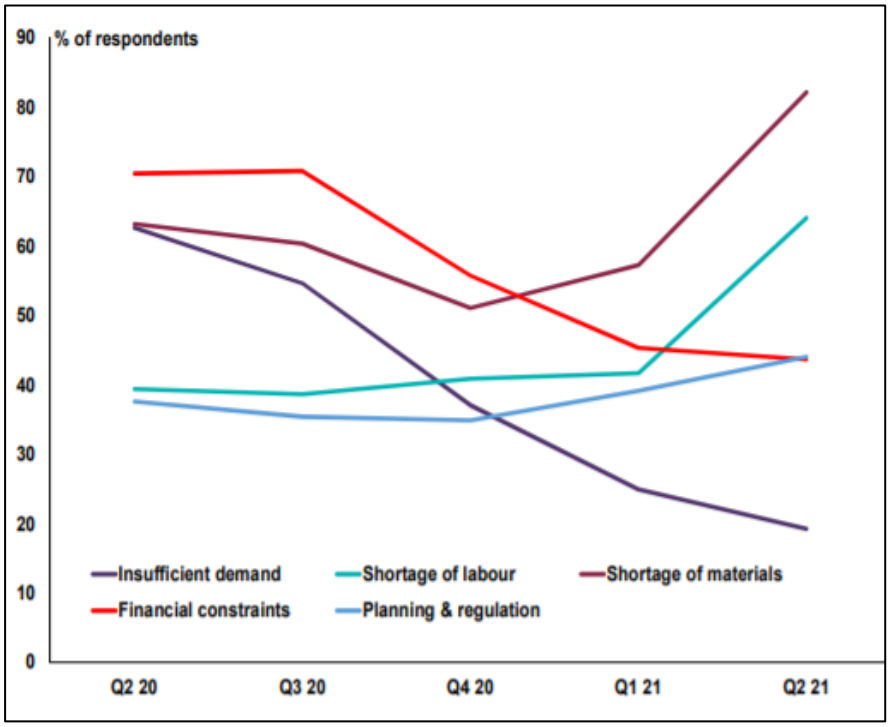
shortages in this area are the main concern at the present time (cited by over 80% of respondents to the *Q2 RICS and Infrastructure Monitor*). However, issues around the labour are also on the rise (64% report shortages) with skilled trades like bricklayers and carpenters topping the list. Although a little lower than this in terms of responses, finding qualified professionals such as quantity surveyors is also becoming more problematic.

The rise in new business enquiries highlighted in the latest RICS Monitor (with the net balance indicator climbing from +29% to +50%) suggests that the growth in workloads will remain firm running into 2022.

Chart 10: Shortage of materials and labour are the two key challenges for the industry according to the RICS C&I Monitor



© RICS 2021

Source: RICS Economics Research: *RICS UK Economy and Property Market Update* (August 2021), London: RICS, p5 - Chart 10.

Read the full piece of research 'RICS UK Economy and Property Market Update, August 2021

Also: UK Economy and Property Market Chart Book, Q4 2020
- Output is likely to drop again in the last quarter of the year.

UK Residential Market Survey: August 2021
- Demand again softens slightly over the month as new instructions continue to fall

- Flow of fresh listings coming onto the sales market continues to deteriorate,

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- Sales slip for a second month running but are expected to stabilise going forward, and
- House prices continue to rise albeit the pace of growth now appears to be easing somewhat.

The August 2021 RICS UK Residential Survey results again point to a slight softening in activity over the month, with the market seemingly taking a breather following the surge in sales recorded prior to the phasing out of the Stamp Duty holiday. Nevertheless, respondents expect activity to stabilise in the near team and foresee a modestly positive trend returning over the twelve-month time horizon.

At the national level, new buyer enquiries fell for a second month in succession, with the latest net balance slipping a little deeper into negative territory at -14% (down from a reading of -9% in July). When disaggregated, demand trends were either flat or negative across virtually all parts of the UK over the month. At the same time, agreed sales also declined for a second consecutive report, evidenced by a net balance of -18% of respondents citing a fall (which compares to a reading of -22% previously).

Looking ahead, survey participants still foresee a generally steady sales picture emerging over the near term, as the three-month expectations net balance remained unchanged at +4%. Further out, respondents now envisage transaction levels edging up slightly over the twelve-month horizon, with the longer-term expectations net balance posting a reading of 7% (improving from a flat return of =2% beforehand). Drilling beneath the national figures show sales expectations for the year ahead are most positive across London, Northern Ireland and the South East of England.

Read the latest RICS UK Residential Market Survey: August 2021 in full.

RICS - SPACIOUS 千居 Hong Kong Residential Monitor / Market Survey: July 2021
- Activity metrics remain in firmly positive territory

- Demand, sales, and new instructions all reported to have picked-up again over the month,
- House prices continue to rise across each region, and
- Rental growth expectations raised on the back of stronger tenant demand.

The results of the July 2021 RICS-Spacious Hong Kong Residential Monitor remain consistent with a solid sales market backdrop at present. The Confidence Index* (CI), shown in Chart 1, registered a figure of +52, which is little changed from the reading of +56 in June. Consequently, this measure continues to point to sales market activity expanding at a robust pace across Hong Kong.

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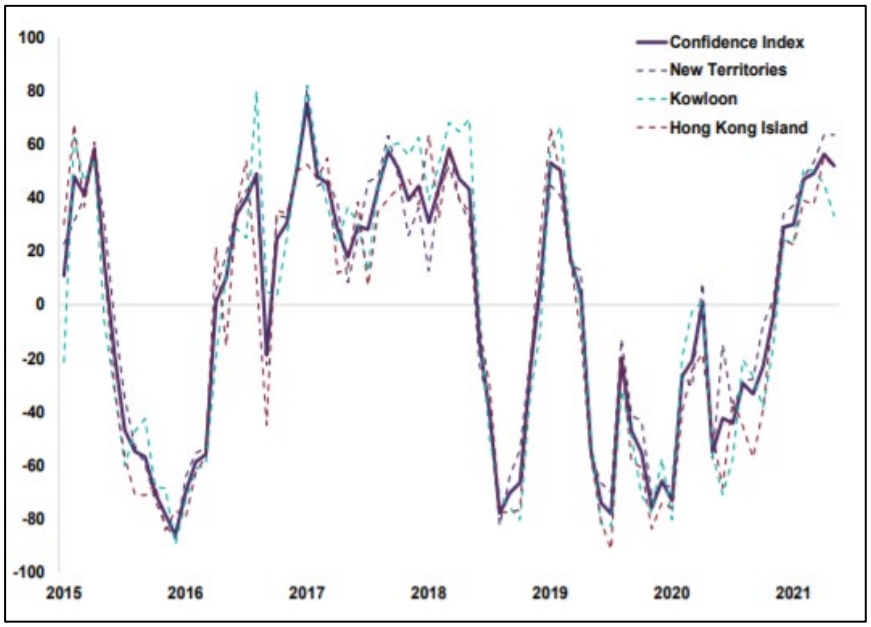
Chart 1: Confidence Index*:



© RICS 2021

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

***** The Confidence Index is a composite measure capturing overall market momentum, encompassing variables on short-term price and sales expectations. The Home Price Perceptions Index measures the perceived monthly change in home prices as reported by survey participants, where March 2015=100. The Rent Perceptions Index measures the perceived monthly change in rents as reported by survey respondents, where March 2019=100.

Read the latest RICS HK Residential Monitor: July 2021 in full.

Global Commercial Property Monitors, Q2 2021
- More positive trend beginning to emerge in both investor and occupier markets.

- Real estate sentiment edged up again in Q2, led by the Americas and Europe,
- Industrials remains the strongest sector followed by data centres and multifamily,
- Concerns over valuation persist with around 50% of respondents viewing real estate as expensive.

The results of the Q2 RICS Commercial Property Monitor (GCPM) are consistent with a further improvement in sentiment among professionals working the real estate market. The headline Commercial Property Sentiment Index (CPSI) rose for the fourth consecutive quarter and, while still negative, it now stands at its best level (-4%) since Q4 2019 (+3%). Significantly, the firmer tone in the responses to the survey is visible both on the occupier and

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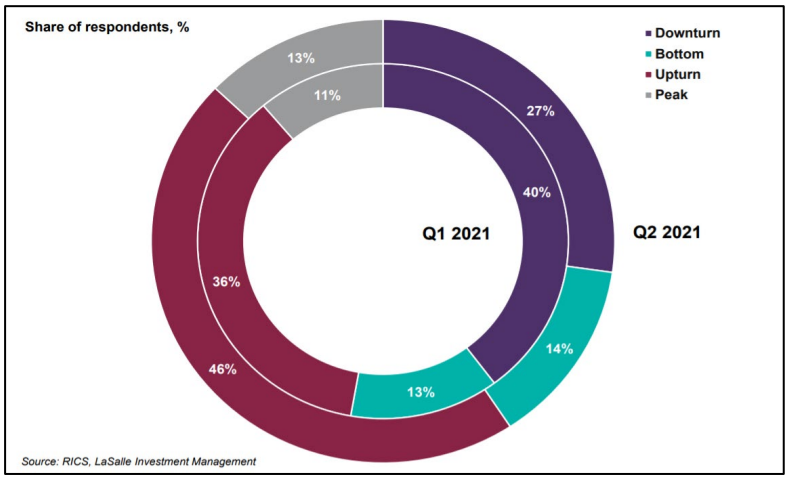
Investor sides of the market. The global reading of the former rose from -26% to -10% while for the latter, it climbed from -10% to +1%.

Chart 6: Perceptions on Phase of the Cycle:



© RICS 2021

Source: RICS Economics Research: *RICS Global Property Monitors, Q2 2021*, London: RICS, p3 - Chart 6

Perceptions shift towards recovery phase of cycle – Reinforcing the more positive mood is the sense from contributors to the survey that they now view global real estate as edging away from the downturn phase of the cycle (Chart 6). In Q1, just over 50% of responses suggested the market was in a downturn phase or at the bottom of the cycle. This has dropped to just over 40% this time around with 46% viewing the market in an upturn phase compared to 36% in the last report. Consistent with other feedback, this trend is more evident in the Americas and Europe and a little less so in APAC and MEA. Unsurprisingly within the Americas, this pattern is particularly pronounced in the US with the share of respondents suggesting the real estate market is in the early or mid-upturn phase of the cycle jumping from 39% to 55%.

Read the latest RICS Global Commercial Property Monitor, Q2 2021 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: July 2021

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

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What's covered in the latest bulletin?

- Construction output fell by 1.6% in July 2021, with the level of output now below its pre-coronavirus (COVID-19) pandemic February 2020 level; new work, and repair and maintenance both contributed to the monthly decline in July 2021, with anecdotal evidence from businesses suggesting that price increases and product shortages caused by supply chain issues were the main reasons for the decline.

- The level of construction output in July 2021 was 1.8% (£257 million) below the February 2020 pre-pandemic level, while new work was 3.2% (£285 million) below the February 2020 level, repair and maintenance work was 0.6% (£27 million) above the February 2020 level.

- The recovery to date is mixed at a sector level, with infrastructure the best performing sector over the pandemic at 35.7% (£649 million) above its February 2020 level and private commercial the worst performing sector over the pandemic at 20.3% (£481 million) below their respective February 2020 levels in July 2021.

Read the full statistical bulletin, 'Construction output in Great Britain: July 2021.

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)

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**'.

From the Health and Safety Executive (HES), 'Rate of self-reported work-related health and non-fatal injury by industry**'**

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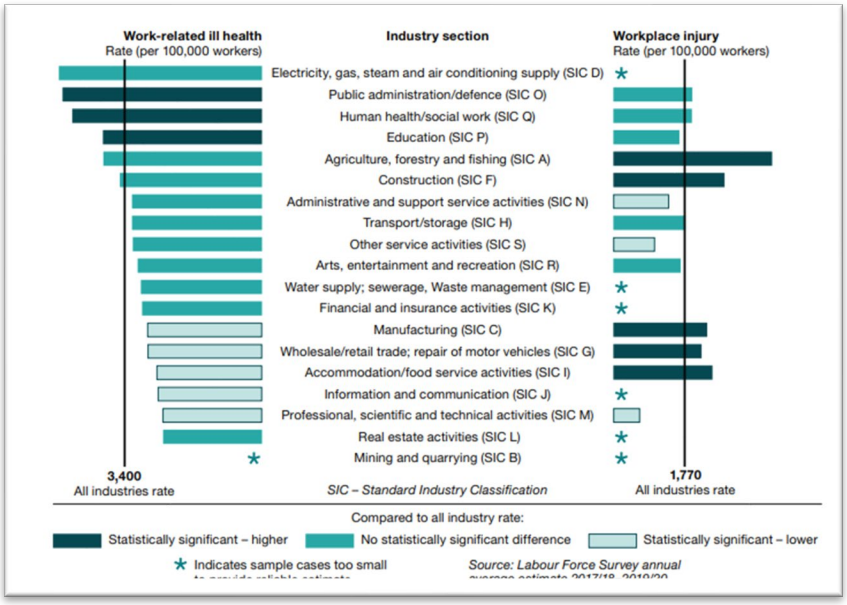
For 'Rate of self-reported work-related health and non-fatal injury by industry'



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

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*** (**September 2021**), RICS takes a look at 'The 75 per cent problem: making greener glass' – In the final part of a series about decarbonising materials, *Modus* focuses on flat glass, which involves one of the highest temperature industrial processes.

Subject Terms/Keywords: Materials and resources; Technology; Sustainability.

Latest articles within *Modus*:

- **Can our homes generate more energy than they consume? –** *Modus* meets Melanie Ross, who leads the Green Building Technologies (GBT) research group and advocates for a green future, one building at a time.

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Subject Terms/Keywords: Energy; Technology; Sustainability.

- 7 suburbs to inspire urban planners – What makes a great suburb? Is it inch-perfect geometric design, outdoor space, or excellent amenities? With the aid of spectacular aerial photography, *Modus* explores suburbs from around the world.

Subject Terms/Keywords: Cities and placemaking; Housing.

- **Suburban sprawl: Is it time to leave the city behind?** *Modus* catches up with the urbanism specialist Johnathan Manns FRICS to discuss his work with the UK government's Suburban Taskforce.

Subject Terms/Keywords: Cities and placemaking; Housing.

- 11 September 2001: the day that changed the world – The world watched in disbelief as a terrorist attack destroyed the World Trade Center. *Modus* speaks to four industry figures about how those events 20 years ago affected New York.

Subject Terms/Keywords: Maintenance and repair; Cities and placemaking; Health and safety.

- **3 ways surveyors can mitigate the climate catastrophe –** The built environment sector must pull together if we are to achieve net zero targets and avoid an environmental catastrophe, says RICS President Kath Fontana.

Subject Terms/Keywords: RICS standards and guidance; Environmental management; Sustainability.

- **Can high-energy data centres ever be carbon neutral?** – Global data centres are being given ambitious environmental targets but it will take more than 'blue sky thinking' to turn the cloud green.

Subject Terms/Keywords: Data management; Technology; Sustainability.

- **No limit: the insatiable demand for data centres –** *Modus* explores how COVID-19 has exacerbated global demand for data centres, in the final part of a series on post-pandemic building typologies.

Subject Terms/Keywords: Data management; Technology; Instructions and services.

- **Close to the edge is bigger always better in data –** A new trend towards micro data centres that enable super-fast edge computing could slow the rapid rise in scale of this building typology.

Subject Terms/Keywords: Energy; Technology; Infrastructure and services.

- **Small is beautiful: tiny homes shelter people in need –**

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Quick to build, inexpensive and requiring very little space, tiny homes are providing temporary housing for people experiencing homelessness.

Subject Terms/Keywords: Housing; Infrastructure and services.

- **Work reboot: welcome to the hybrid office –** Are we at our best when working from home or office? The answer lies somewhere in the middle.

Subject Terms/Keywords: Wellbeing; Health and Safety; Running your business.

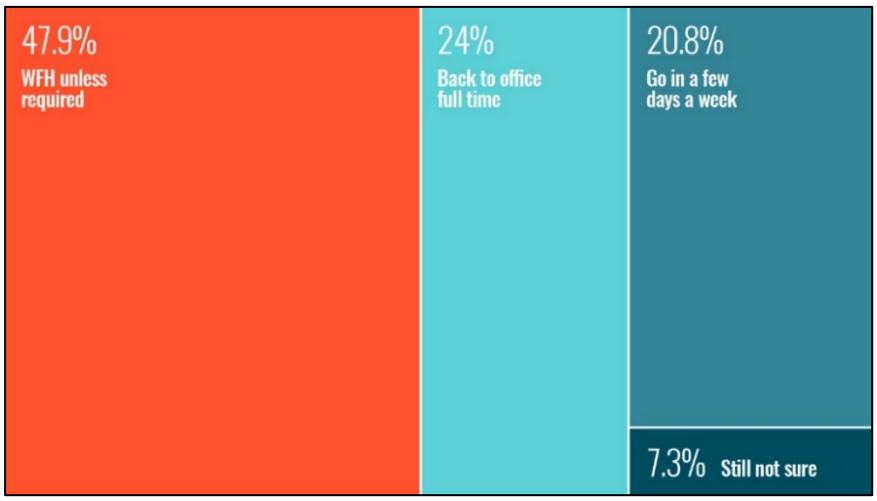
Related Links:

BBC Worklife (2020) 'Coronavirus: How the world of work may change forever' *BBC Worklife* [online]. Available at: www.bbc.com/worklife/article/20201023-coronavirus-how-will-the-pandemic-change-the-way-we-work [accessed 17 September 2021]

- **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.

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, communications, and project

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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 ..
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 (HA) ***Heritage Update***, the latest edition, **August 2021 - Issue 450** focusing on – Record Bids for UK City of Culture 2020; "Strong positive shift" in public appetite for visiting attractions; Tell us your policy priorities. Also: **Engaging Digital Audiences,** available on the **HA project portal** - access webinars on diversifying digital audiences, how to plan great webinars, how to use exceptions to copyright in your digital activities & how to encourage your audience to create user-generated content.

Institute of Workplace and Facilities Management (IWFM) ***Facilitate,*** the latest **July/August '21** edition focusing on 'Climbing the ladder' – Professional development is at the core of IWFM and a fundamental reason for their being. Meanwhile, professionalising the workplace and facilities management, recognised for its ability to enable people to transform organisations and their performance, is a key aspiration of the institute.

Contractors World International,

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

Subscriptions available via the VLE e-Library include:

Construction Information Service (CIS) ***Insight 2021.*** The Latest Edition (**September 2021**) focuses on – **Inclusive design and the RIBA Plan of Work,** and covers -

- **What is inclusive design?**
- **Legislation and protected characteristics,** and
- **Inclusivity and the RIBA Plan of Work 2020.**

Taylor and Francis Online and include the following e-Journals:

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

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Henry Stewart Publications and include the following e-Journals:

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

Corporate Real Estate Journal is the essential peer-reviewed, professional journal for corporate real estate executives.

Each quarterly 100-page issue publishes high quality articles and real case studies on new thinking, strategies, and techniques in corporate real estate. It cuts through the deluge of information facing corporate real estate professionals to deliver content, which is authoritative, practical, and relevant by providing a blend of genuine thought-leadership – which expands what can be achieved with corporate real estate – with detailed, actionable advice and 'lessons learned' from industry peers.

In-depth articles and case studies scheduled for the new volume, **Vol 11 (2021)** of ***Corporate Real Estate Journal*** **incl**

1. Redefining the workplace post COVID and how corporate real estate professionals can meet the resulting challenges,
2. Anticipating the next recession: What should corporate real estate do to prepare?
3. Resurrecting real estate acquisition and leasing and what this means for corporate real estate professionals,
4. The future of work and horizontal integration of HR/technology/risk: The critical role of corporate real estate and how the management of supply and demand is evolving,
5. The challenges and opportunities presented by hybrid workplaces and how to balance business requirements and employee expectations,
6. Building and leading the right (internal and external) site selection team for your project,
7. The need for more flexibility and adaptability in corporate real estate portfolios while enhancing the employee experience through the workplace,
8. Taking a capital market – investment banking approach to corporate real estate portfolios to maximise value to the company,
9. How the 'new normal' is changing the office environment,
10. Why and how corporate real estate professionals should adopt PropTech,
11. Information strategy in view of FM-futures: The evolving role of information systems in FM,
12. Why and how Skanska applied for a WELL Health Safety Rating,

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13. Future proofing legal workplace strategies and real estate footprint,
14. Strategy and portfolio planning and whether a hub and spoke model is realistic,
15. A real estate investment perspective on value-added tools for corporate real executives,
16. Hybrid space making: Rethinking the bank branch experience for the digital age,
17. Corporate headquarters leasing: Key considerations for a post-pandemic workplace,
18. Ways to turn uncertainty into opportunity in corporate real estate,
19. Experiences of work from home: The future of distributed work locations – A comparative empirical analysis between the U.S. and Germany,
20. How data analytics and change management are transforming the future of workplace,
21. A practical approach to transforming the workplace,
22. Formal relational contracts: Why you should consider using them for your next outsourcing deal
23. Strategies for employee happiness and real estate optimisation in the post COVID office,
24. Best practices of commercial management of parking assets for corporate real estate investors, and
The innovation deficit: The importance of the physical office post COVID-19.

Vol 10 (4) (2020-21) of ***Corporate Real Estate Journal***
Vol 10 (3) (2020-21) of ***Corporate Real Estate Journal*.**
Vol 10 (2) (2020-21) of ***Corporate Real Estate Journal*, and**
Vol 10 (1) (2020-21) Special issue: COVID-19, CRE and workplace response

HSTalks

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HSTalks is a member of the Henry Stewart Group which has been a leader in providing graduate and continuing professional education in science, business, and management for over 40 years through peer reviewed vocational journals (such as the *Corporate Real Estate Journal),* conferences and online education for medical schools, business schools, universities, government, and commercial enterprises in over 60 countries around the world.

Henry Stewart Talks Ltd (HSTalks) provides specially prepared, animated, online, audio-visual lectures, seminar-style talks and case studies that accompany the 'Business & Management Collection' of e-Journals that the UCEM e-Library subscribes to.

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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.

This work is licensed under a Creative Commons Attribution 3.0 Unported License (CC BY 3.0).

This first Open Praxis issue in 2021 (January – March) presents a brief report on the Open Praxis progress since 2013, with a special focus on volume 12, published in 2020. It also introduces -

Vol 13(1), that includes 7 research papers and 2 innovative practice papers.

Research articles include:

1. Exploration of China Africa Cooperation in Higher Education: Opportunities and Challenges in Open Distance Learning',
2. 'Evaluating student support provision in a hybrid teacher education programme using Tait's framework of practice',
3. 'Student support service excellence evaluation: Balancing the Iron Triangle of accessibility, cost-effectiveness and quality?'
4. 'Exploring Student Perceptions as Co-authors of Course Material',
5. 'Inequitable Impacts of Textbooks Costs at a Small, Private College: Results from a Textbook Survey at Gettysburg College',
6. 'A global crash-course in teaching and learning online: A thematic review of empirical Emergency Remote Teaching (ERT) studies in higher education during Year 1 of COVID-19',
7. 'Exploring Learners' Attitude toward Facebook as a Medium of Learners' Engagement'.

Innovative practice articles:

1. 'Does Virtual Field Experience Deliver? An Examination into Virtual Field Experience during the Pandemic and its Implications for Teacher Education Programs,
2. Lessons learned developing a massive open online come in implementation research in infectious diseases of poverty in-and middle-income countries.

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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, **OLJ September 2021 Vol 25(3).**

2021 OLC Conference Special Issue
Table of Contents –
Introduction to Volume 25, Issue 3

- 'Introduction to the Special Issue: Select Papers Presented at the 2020 OLC Accelerate Conference and the 2021 OLC Innovate Conference',
- 'Does Mode of Access Make a Difference? Mobile Learning and online student engagement'.
- 'Student Performance in Online Classes at a Hispanic-Servig Institution: A Study of the Impact of Student Characteristics in Online Learning',
- 'Connections Before Curriculum: The Role of Social Presence During COVID-19 Emergency Remote Learning for Students',
- 'The Story is in the Structure: A Multi-Case Study of Instructional Design Teams',

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- ‘Troublesome Knowledge: Identifying Barriers to Innovate for Breakthroughs in Learning to Teach Online’.

Section II

- ‘Introduction to Section II’
- ‘Development and Testing of a Roleplaying Gamification Module to Enhance Deeper Learning of Case Studies in an Accelerated Online Management Theory Course’,
- ‘The Effects of E-Learning on Students’ Motivation to Learn in Higher Education’,
- ‘Student Self-Disclosure and Faculty Compassion in Online Classrooms’,
- ‘How Can We Improve Online Learning at Community Colleges? Voices from Online Instructors and Students’,
- ‘A content analysis of change management strategies used in technological transitions in higher education institutions from the lens of a strategic alignment framework’,
- ‘Parents’ Use of Digital Literacies to Support their Children with Disabilities in Online Learning Environments’,
- ‘Student Initiative Empowers Engagement for Learning Online’,
- ‘Catching lightning in a bottle: Surveying plagiarism futures’,
- ‘Supporting Student-Initiated Mobile Device Use in Online Learning’,
- ‘Hybrid Flexible Instruction: Exploring Faculty Preparedness’,
- ‘Developing Peer Review of Instruction in an Online Master Course Model’.

[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

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organisation, serving clients as best we can, and playing an important leadership role in communities.

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

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

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

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

As this book states, “Motivation is central to all things human” and Online teaching and learning are no different. The authors of this free online book propose the TEC-VARIETY framework as a solution to the lack of meaningful engagement.

It can shift learners from nearly comatose states to actively engaged ones. *Adding Some TEC-VARIETY* helps instructors focus on how to motivate online learners and renew their own passion for teaching. Using 10 theoretically driven and proven motivational principles, TEC-VARIETY offers over 100 practical yet innovative ideas based on decades of author experience teaching in a variety of educational settings.

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.
Access the Directory of Open Access Books (DOAB)

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UCEM e-Library Portrait

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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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.

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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

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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?

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.

The e-Library is here to help make finding up-to-date, credible, and relevant information easier.

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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.

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[September 2021] - Here are some Open Access Journal articles available via Emerald, all around the theme of **'COVID-19 and the impact on the workplace**'.

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

1. Herold D M, Nowicka K, Pluta-Zaremba A, and Kummer S (2021), 'COVID-19 and the pursuit of supply chain resilience: reactions and "lessons learned" from logistics service providers (LSPs)', ***Supply Chain Management***, Vol. 26(6), pp702-714, Emerald Publishing Ltd, and.

2. Rožman M and Tominc P (2021), 'The physical, emotional and behavioral symptoms of health problems among employees before and during the COVID-19 epidemic', ***Employee Relations***, Vol. (No) ahead-of-print, Emerald Publishing Ltd.

3. Tagliaro C and Migliore A (2021), '"Covid-working": what to keep and what to leave? Evidence from an Italian company', ***Journal of Corporate Real Estate***, Vol. (No) ahead-of-print, Emerald Publishing Ltd.

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.

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Student Career Services

UCEM Career Services

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

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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.

This month **[September 2021]** the **Hot Top Highlight – RICS Guidance Note: *Land Measurement for Planning and Development Purposes***

In this latest blog article, Property Elite take a look at the new RICS Guidance Note: ***Land Measurement for Planning and Development Purposes*** (available via the RICS Website).

This blog is, therefore, essential reading for candidates pursuing the Measurement competency, as well as Planning and Development pathway candidates.

Why was the Guidance Note published?

The new guidance provides much needed clarity on the measurement of land for planning and development purposes. This will enable areas to be accurately described at each stage of the development process.

The guidance should be read in conjunction with RICS *Professional Statement Property Measurement* (2nd edition) and the *International Land Measurement Standard* (ILMS)

When considering boundaries, surveyors should also refer to the RICS Guidance Note, *Boundaries: Procedures for Boundary Identification, Demarcation and Dispute Resolution.*

When does the Guidance Note take effect?

24 August 2021

Areas covered within this blog incl.

1) **What are the new bases of measurement?** There are four bases of measurement in current use, with a new term, Land Ownership Area (LOA), introduced in the Guidance Note and are explained in more detail. The application of each bases is defined in section 3 of the Guidance Note.
2) **How accurate do my measurements need to be?** and
3) **Where can I get extra help and advice?**

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Further details and access to the Property Elite Hot Topic Highlight blog and RICS Guidance Note: RICS (2021) *Land measurement for planning and development purposes*, Global 1st edition, May.

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

Note: The author of most of these blogs, Jen Lemen-Hogarth is an Associate Tutor – UCEM and Partner – Property Elite.

You can also download this blog **in audio format** and listen whilst on the move. When you're done, you can request further information and a free CPD certificate.

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

Other related web-links

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

TARGETjobs – All TARGETjobs graduate career guides and directories are available for you to view online and download for future reference and include **Property 2020**, **Engineering 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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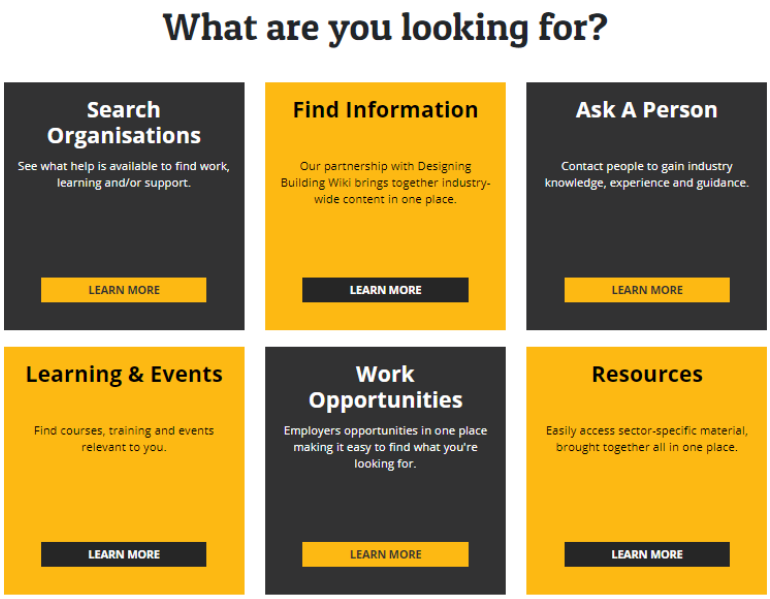
Enabling connections for a competent, diverse, and valued built environment workforce

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.

‘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.

People Wiki:



‘© 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

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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.

Related Link:

UCEM incubate social enterprise, Building People, becomes a fully-fledged success story

Building People, whose mission is to improve equality, diversity, and inclusion in the built environment, is now an independent entity.

Since its inception in 2018, UCEM has provided the enterprise with office space, founder job security and donations totalling £150,000. This gave Building People the perfect platform to deliver its collaborative 'dot-joining' activity, connecting people to opportunities across the built environment and enabling employers to engage with a more diverse range of talent.

With strong levels of support coming in from across the sector, both parties are in agreement that now is the time for Building People to fledge the nest and become a separate entity.

It is an exciting time for the social enterprise as it announces its three-year plan, which focuses on five key areas:

1. **Profile:** Positioning Building People as the go-to source for equality, diversity and inclusion best practice and activities, and though leadership in the built environment,
2. **Partnerships:** Delivering maximum joined-up impact through the growth and development of Building People's supply and demand networks,
3. **People:** Enabling equality of opportunity through the provision of a simpler and more supported user experience in a fragmented careers landscape,
4. **Policy:** Aligning with and supporting the achievement and enhancement of relevant national sector policy and activity, and
5. **Planning:** Establishing a secure future of Building People as a sector-backed movement for collaborative change across the built environment.

Access the article '**UCEM incubated social enterprise, Building People, becomes a fully-fledged success story**' in full.

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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.

Real estate is under the spotlight as the built environment accounts for 40% of carbon emissions across the world. This will

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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.

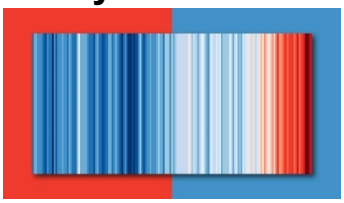
Countdown to COP26 – What can the Construction Industry do?

- The next UN Climate Change Conference, COP26, is being held in Glasgow at the beginning of November. This is an opportunity for action. Not just for the countries and delegates attending. But for all of us to challenge what we do, and what the construction industry, can do.

Stride Treglown in England and Wales, TODD Architects in Northern Ireland and Ireland, and Keppie in Scotland have joined forces to host an eight-week programme of free events counting down to COP26.

Access further information on 'Climate Action Relay – Countdown to COP26'.

UK sets 'most ambitious' climate target to cut emissions by 78% by 2035



[Image: courtesy Ed Hawkins]

(Climate stripes as shown is this image are sometimes referred to as warming stripes, or climate timelines and are data visualization graphics that use a series of coloured stripes chronologically ordered to visually portray long-term temperature trends.)

The UK government has set the 'world's most ambitious' climate change target into law to slash emissions by 78% by 2035 compared to 1990 levels. In line with the recommendation from the independent **Climate Change Committee**, this sixth Carbon Budget limits the volume of greenhouse gases emitted over a 5-year period from 2033 to 2037, taking the UK more than three-quarters of the way to reaching **net zero by 2050**. For the first time, this Carbon Budget will incorporate the UK's share of international aviation and shipping emissions.

On **Earth Day (22 April 2021)** Prime minister Boris Johnson urged countries to raise ambition on **tackling climate change** and join the UK in setting stretching targets for reducing emissions by 2030 to align with net zero.

The government is already working towards its commitment to reduce emissions in 2030 by at least 68% through the UK's latest Nationally Determined Contribution. The latest announcement

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builds on this goal to achieve a 78% reduction by 2035. The new target will become enshrined in law by the end of June 2021.

'Raising the bar on tackling climate change'

Prime minister Boris Johnson said: "We want to continue to raise the bar on tackling climate change, and that's why we're setting the most ambitious target to cut emissions in the world.

"The UK will be home to pioneering businesses, new technologies and green innovation as we make progress to **net zero emissions**, laying the foundations for decades of economic growth in a way that creates thousands of jobs.

"We want to see world leaders follow our lead and match our ambition in the run up to the crucial **climate summit COP26**, as we will only build back greener and protect our planet if we come together to take action."

'Government must clearly map out how it plans to tackle the carbon emissions'

Ben Harris, UK climate change & sustainability director at Arcadis, and Catherine Greaves, managing director of environment, safety & industry, said: "We welcome the news from the UK Government this morning on the adoption of the 78% reduction in carbon emissions by 2035 on the advice of the Committee on Climate Change.

"If we are to take this new target seriously, Government must clearly map out how it plans to tackle the carbon emissions attributable to the built environment, which account for approximately 40% of UK emissions."

Access further information and the *PBC Today* article, 'UK sets 'most ambitious' climate target to cut emissions by 78% by 2035', in full.

China Dialogue – Policy briefing: EU-China climate engagement

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

Access China Dialogue reports online.

QSAND and the Sustainability Goals

The UN Sustainable Development Agenda, adopted by world leaders in 2015, maps out a 15-year plan to fight inequality, end poverty and tackle climate change challenges. Quantifying Sustainability in the Aftermath of Natural Disasters (QSAND) is a self-assessment tool to promote sustainable approaches and contributing to aid the achievement of several of these 17 goals in disaster affected global communities:

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Source: Designing Buildings .co.uk Wiki (2019) 'Forgetting the big picture when considering sustainability' [online], last edited 31 March. Note: "The Sustainable Development Goals icons and colour wheel are free to use" (UN.org 2021)

Note: Use of Wikis as a reference site

Wikipedia and use of other Wikis are increasingly being used by people in the academic community, as an easy source of information about anything and everything. However, citation of Wikipedia may not be considered acceptable, because Wikipedia is not a creditable source. It is important to note that whilst Wikipedia may be one of the Web's most popular reference sites, it is not classed as a credible resource because anyone can be a contributor to the website.

This can be avoided by following two simple rules:

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

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Information Governance

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

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Information Governance:

© 2020 iStockphoto LP, Royalty free image

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

Data Protection

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

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

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

Access the Information Commissioner's Office website

Latest Data Protection News [September 2021]

BBC News: Second email data breach by MoD uncovered

- A second data breach (see publication date) by the Ministry of Defence, potentially compromising the safety of Afghans who may be eligible to relocate to the UK, has been uncovered by the BBC.

Access the BBC News article, 'Afghanistan: Second email data breach by MoD uncovered', in full.

ICO Latest News [September 2021] -
14 September 2021 - ICO Blog: **Sharing personal data in an emergency – a guide for universities and colleges**.

G7 data protection and privacy authorities' meeting: communiqué and **ICO to call on G7 countries to tackle cookie pop-ups challenge** (ICO, September 2021)

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11 August 2021 – **ICO consults on how organisations can continue to protect people's personal data when it's transferred outside of the UK**

6 May 2021 – **Five things we learned from DPPC 2021** – The ICO's Data Protection Practitioners' Conference 2021 brought together more than 3,000 data protection professionals from across the country. Here are the five headlines from the day:

1. UK SCCs (standard contract clauses) to go out for consultation in the summer,
2. A challenging year has brought positives,
3. Data protection can be a balancing act,
4. Data protection made easy for SMRs, and
5. Unlocking the benefits of data sharing.

Access the Information Commissioner's Office, 'News, blogs, and speeches' section of their website

Further information, advice, and guidance (IAG) provided by the ICO
The ICO publish detailed IAG on:

- **Guidance on direct marketing and the public sector** (ICO, August 2021)
- **Sharing personal data with law enforcement authorities**,
- **Data sharing and reuse of data by competent authorities for non-law enforcement purposes**,
- The **Accountability Framework.** (ICO, September 2020),
- **Codes of conduct** and **certification schemes**.(ICO, February 2020)
- When using data analytics on personal data, the ICO is urging all organisations to look at its toolkit. It can be found at **ICO > For Organisations > Toolkit for organisations considering using data analytics** (ICO, February 2021
- **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

ICO What's new? [**September 2021**]
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 in their ***ICO Guide to Data Protection*** as they occur, for example:

April 2021 – The ICO have published guidance on the **National Security Provisions** in Part 3 of the DPA18 and updated the **Guide to Intelligence Services Processing**.

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March 2021 – The ICO have published new guidance on the **national security exemption** in Part 2 of the DPA18.

January 2021 - The ICO have published an Updated BCR communication following the EU-UK Trade and Co-operation Agreement to the **International transfers after the UK exit from the EU Implementation Period**.
December 2020 - The ICO published the new **Data Sharing Code of Practice**, alongside a **data sharing information hub** with further resources and support.

Further guidance provided by the ICO.

Read the Blog: 'Access to information: driving change through education, engagement and enforcement', in full

Copyright

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

Please note: if there is something you really want to use for learning materials and someone else owns the copyright … permission must be sought!

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

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

Introducing Copyright: A plain language guide to Copyright in the 21st Century

Computers and the Internet have transformed the way we produce and distribute information and entertainment. And copyright is struggling to keep pace with these changes. This book was written for those who want to learn about copyright in the 21st century. It explains copyright protection and what it means for copyright holders and copyright users. It also introduces readers to contemporary topics: (i) digital rights management, (ii) open licences, (iii) software patents and (iv) copyright protection for works of traditional knowledge.

Hofman J (2009) *Introducing Copyright: A plain language guide to Copyright in the 21st Century* [e-book], Vancouver: The Commonwealth of Learning.

creative commons **CC-BY-NC-ND**

Access free copies of this book (in PDF and EPUB formats)

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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 the CLA Step-by-Step Guide and Interactive Toolkit for those checking permissions within their licence.

Latest Copyright News

Article 13: UK will not implement EU copyright law.

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

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

EU member states had until 7 June 2021 to implement the new reforms, with UK having left the EU by then.

Read the full BBC Technology news item 'Article 13: UK will not implement EU copyright law'

Read the latest 'BBC Copyright News'

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Government Guidance – Changes to copyright law from 1 January 2021

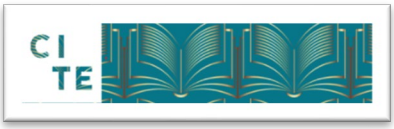
- This guidance covers the impacts on UK right holders, businesses, cultural heritage institutions and consumers. Note: It is not legal advice.

Access the GOV.UK 'Changes to copyright law from 1st January 2021', in full.

Keeping abreast of the latest developments in Information Governance:

Copyright Resources – Naomi Korn Associates has developed free and openly licensed copyright, licensing and data protection help resources.

Copyright & Information Technologies in Education (CITE)



© CLA 2020

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.

As UCEM Information Governance Manager I regularly attend the Copyright Licensing Agency (CLA) CITE Forum, and will be presenting, '**UCEM's e-Library: Our Story So Far**', at the next CITE Forum meeting in November 2021.

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

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

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

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

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

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CILIP's National Copyright Conference 2021

This national conference was held on 10th May and in association with Naomi Korn Associates, as well as great speakers and further experts in the field in attendance. This 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 and covered the following:

- The impact of Brexit on the copyright law in the UK.
- Responses to Covid in the provision of access and use of copyright resources.
- The crucial role of the copyright exceptions.
- Familiarised with key issues on the horizon such as Plan S.
- Current legislative, licensing and publishing related landscape and the latest copyright research and how these might impact your day-to-day work.

Sessions covered broad copyright impact for the profession incl.

- **Keynote: Who's afraid of the copyright wolf: research, access, and respect**

Much of the digitisation landscape is dictated by copyright, particularly for 20th century content. For researchers, this can create complex barriers to access to either individual collections item, or aggregated collections data, that are often confusing to navigate. For researchers working in the Digital Humanities, access to materials can dictate project direction, or the questions that can be asked via digital methods. In this talk, *Professor Melissa Terras*: Professor of Digital Cultural Heritage, University of Edinburgh reflected on how copyright has shaped her research projects - and also, how the perceived boundaries of copyright affect the research environment. The fear of copyright affects both researchers and institutions: Terras asks if the framing of forceful copyright restrictions can also be replaced with stressing the contribution institutions make to safeguarding and stewarding collections for ongoing research access.

- **Brexit, orphan works, and your next steps**

Naomi Korn: Naomi Korn Associates analyses the UK Government response to leaving the EU and its position on orphan works. Based on key questions Naomi is answering as part of her part-time Phd research at the University of Edinburgh, Naomi will outline next steps and suggest what you might want to think about doing next.

- **Exceptions to Copyright**

In this talk, ***Dr Jane Secker****: Senior Lecturer in Educational Development, City, University of London,* and ***Chris Morrison****: Copyright and Licensing Manager, University of Kent* spoke about the ways in which educational establishments have addressed

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copyright issues associated with the shift to online learning. They discussed the importance of educational exceptions as a vital supplement to the use of licensed resources to enable the use of images, printed materials, and audio-visual content to teach online.

- **Open Access and Plan S**

The open access debate of the past two decades has raised issues around long-standing assumptions regarding copyright in scholarly journal articles. This has intensified as funders have looked to using rights as a way to promote greater open access. This talk by ***David Prosser****: Executive Director, RLUK* looked at the current state of the debate through the lens of recent policy from cOAlition S.

- **Bumps in the road: copyright responses to COVID in Higher Education**

Many aspects of our daily lives have been disrupted in some way over the course of the pandemic and copyright services are no exception. For those of us working in higher education institutions the sudden shift to online resource provision has meant that we need to work to adapt and enhance our provision in response to the lack of access to physical materials. At the same time, we need to manage expectations in terms of the availability of online materials and educate both users and staff in a constantly changing environment.

This talk by ***Claire Sewell:*** *Research Support Librarian for Physical Sciences, Cambridge University,* and *Kate Faulkner: Law Faculty Librarian, Cambridge University,* looked at the copyright journey taken by Cambridge University Libraries over the course of the last year. It will highlight how the initial response to the emergency was developed into a successful service, the challenges we faced as a university library with legal deposit responsibilities and the potential legacy of these changes for our copyright service. It will conclude with some of the lessons learnt and planned next steps to ensure that we build a copyright service useful to all.

- **Share Copies Not COVID: Update on CLA Developments**

James Bennett: *Head of Rights and Licensing, Copyright Licensing Agency* provided an overview of CLA's latest initiatives in response to the pandemic, looking at developments since the 2020 CILIP Copyright Conference, including licence enhancements to help with online teaching in schools and universities, and CLA and PLS's support for the process of REF submission by HEIs.

- **Europeana's licensing framework: a standardised approach to deal with unharmonised copyright frameworks**

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Europeana aggregates and displays digital cultural heritage from across Europe and beyond, and as such, is in touch with the diverse copyright challenges faced at the national level by cultural heritage institutions. During this session, ***Ariadna Matas:*** *Policy Advisor, Europeana Foundation.* will briefly introduce how Europeana showcases and uses digital cultural heritage, its central licensing system, the standardised tools that Europeana relies on, what the coming changes such as the CDSM Directive might bring to challenges that are left to be solved.

- **Brexit and Copyright - what does the future hold?**

In 2020, the UK was in a holding pattern with respect to Brexit. Although it had left the EU, the transition period meant that EU law continued to apply. With the expiry of the transition period on 31 December 2020, copyright stakeholders and policymakers are now experiencing the full implications of Brexit, both in terms of day-to-day practices and the longer-term vision for copyright law in this country. This presentation by *Dr Emily Hudson: Reader in Law, King's College London* does not seek to reventilate questions about whether Brexit was desirable. Rather, it asks what the future of copyright might look like. To answer this, it starts by explaining the current legal position in relation to the status of EU instruments and case law in the UK. It then identifies areas where EU harmonisation has been particularly significant and makes some predictions about the likely direction of UK copyright law over the coming years. Finally, it offers some views about the sort of copyright reforms that the UK should consider.

- **The Open University - challenges and opportunities with copyright and licensing**

In this talk *Priya Haria: Content, Licencing, and Intellectual Property Assistant, The Open University* will talk about the opportunities and challenges to The Open University in relation copyright and licencing. The effect of Covid19 has led other organisations to consider delivering courses online. Priya will be able to provide a unique perspective in this area because, The Open University is a worldwide leader in teaching and delivering courses online for a number of years. Priya will also discuss how copyright and licencing opportunities allow an organisation like The Open University to expand their reach in delivering courses.

#CILIPCopy21 / #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

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staff to homeworking often with literally hours' notice as the Government COVID-19 instructions are issued.

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

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

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

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 times 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 out working processes to allow us to deliver our services. These are time limited instruction that will be kept under review. At the end of the period then all data that is held temporarily on 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 emphasis your usual security arrangements –** Virus and password protection, not leaving data visible to others, having a PIN code, or not sharing their device with others in their family or household.
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.

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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).

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 -

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

#BE Informed

(iv) 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 / #NASAPerserver

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A to Z of useful references and web-links:

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

A

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

AJ Buildings Library (AJBL) – The AJ Buildings Library showcases thousands of exemplar projects, most from the last 20 years but including major projects back to 1900. Available at: www.ajbuildingslibrary.co.uk [accessed 25 June 2021] (This valuable resource is just one part of the *Architects' Journal* subscription, available via the VLE e-Library > OpenAthens Library login > Construction Information Service (CIS) and/or EBSCO Business Source Premier).

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 23 September 2021]

BBC Search [online]. Further information available at: www.bbc.co.uk/search [accessed 23 September 2021]

BIDSTATS [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: https://bidstats.uk/ [accessed 23 September 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 23 September 2021]. Please refer to question 9 – What is the Digital Built Britain Programme? specifically.

BIMForum – The BIMForum's mission is to facilitate and accelerate the adoption of building information modelling (BIM) in the AEC (Architecture, Engineering and Construction) industry. Further information is available via the BIMForum Website [online] and at: http://bimforum.org [accessed 23 September 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 23 September 2021]

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

Building Conservation. com [online] – Information resources for conservation, restoration, and repairs. Further information is available at: www.buildingconservation.com [accessed 23 September 2021]

Building Conservation.com Articles directory by subject [online]. Available at: www.buildingconservation.com/articles/articles.htm [accessed 23 September 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 23 September 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 23 September 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 23 September 2021]

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

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

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

Building talk [online]. Available at: www.buildingtalk.com [accessed 23 September 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 23 September 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 23 September 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 23 September 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 23 September 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 23 September 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 23 September 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 23 September 2021]

Chartered Association of Building Engineers (CABE) is a member-focused non-profit organisation. CABE shares knowledge, raises standards, and develops 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://cbuilde.com/ [accessed 23 September 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 23 September 2021]

Chartered Institution of Building Services Engineers (CIBSE) – the prime source of expertise in the Building Services Industry. CIBSE [online]. Available at: www.cibse.org [accessed 23 September 2021]. N.B. Within the CIBSE website you can '**CIBSE - Search the Knowledge Portal**' covering themes such as BIM, Building Regulations, FM, Facades, Fire Safety, Lighting and Heating, Management, and project management, Residential, Sustainability, and more.

China Dialogue [online] – China and the world discuss the environment. Available at: www.chinadialogue.net [accessed 23 September 2021]

CIBSE Journal [online]. Available at: www.cibsejournal.com [accessed 23 September 2021].

CIOB Library Incl. Library and Information Services [online]. Available at: www.ciob.org/library [accessed 23 September 2021]

CIOB *BIM+* online newsletter [online]. Available at: www.bimplus.co.uk [accessed 23 September 2021]

CIOB's *Construction Manager* journal [online]. Available at: www.constructionmanagermagazine.com [accessed 23 September 2021]

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

CIOB's Policy and Public Affairs portal [online]. Available at: www.ciob.org/industry/policy-research [accessed 23 September 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 23 September 2021]

Cities / buildings images database [online]. Available at: **www.washington.edu/ark2** [accessed 23 September 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 23 September 2021]

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 23 September 2021]

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

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

COTAC Digital Bibliography [online]. Available at: http://cotac.global/digital_bib/ [accessed 23 September 2021]

Constructing Excellence (delivered with **bre**) is a platform for industry improvement to deliver excellence through clients, industry, and users through collaborative working. Resources include publications, tools, and newsletter. Constructing Excellence [online]. Available at: http://constructingexcellence.org.uk/ [accessed 23 September 2021]

Construction Enquirer is a news website in construction. Construction Enquirer [online]. Available at: www.constructionenquirer.com [accessed 23 September 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 23 September 2021].

Construction Industry Council (CIC) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry. CIC [online] and available at: http://cic.org.uk [accessed 23 September 2021]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: www.ciria.org/default.aspx [accessed 23 September 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 23 September 2021]

Construction Manager is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: www.constructionmanagermagazine.com/ [accessed 23 September 2021]

Construction News [online]. Available at: www.constructionnews.co.uk [accessed 23 September 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 23 September 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 23 September 2021]

Construction and Property Research Centre (CPRC), University of the West of England (UWE) – the CPRC's research activity is focused around the three inter-related stages of the built

environment lifecycle, namely design, construction, and maintenance. Note: The UWE **Centre for Architecture and Built Environment Research** (CABER) now incorporates the CPRC.

Contractors World magazines (incl. *Contractors World International* and *Contractors World UK & Ireland*) are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries. Contractors World [online]. Available at: http://cwmags.com/ [accessed 23 September 2021].

COPAC* exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search you can discover the holdings of the UK's national libraries (including the British Library), many University libraries, and specialist libraries. Note: From August 2019 Copac was replaced by **Jisc's Library Hub Discover**.

Council for British Archaeology (CBA) is an independent charity bringing together members, supporters, and partners to give archaeology a voice and safeguard it for future generations. Archaeology for all [online]. Available at: http://new.archaeologyuk.org [accessed 23 September 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 23 September 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 23 September 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 23 September 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 23 September 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 23 September 2021]

Directory of Open Access Journals (DOAJ) covers all open access scientific and scholarly journals, using a quality control system to guarantee the content. DOAJ [online]. Available at: https://doaj.org [accessed 23 September 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 23 September 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 23 September 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 23 September 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 23 September 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 23 September 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 23 September 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 23 September 2021].

ERES Digital Library [online] and available at: www.eres.org/index.php/activities/libraryeres [accessed 23 September 2021]

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G

Great Buildings [online]. Available at: www.greatbuildings.com [accessed 23 September 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 23 September 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 23 September 2021]

Global Construction Review – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at www.globalconstructionreview.com [accessed 23 September 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 23 September 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 23 September 2021]

The Guardian, Higher Education / Universities [online]. Further information is available at: www.guardian.co.uk/higher-education-network [accessed 23 September 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 23 September 2021]

HSE, Health & Safety in the construction industry [online]. Further information is available at: www.hse.gov.uk/construction [accessed 23 September 2021]

HSE Publications [online]. Available at: www.hse.gov.uk/pubns/index.htm [accessed 23 September 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 23 September 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 23 September 2021]

Heritage Help - Created by the Joint Committee of the National Amenity Societies, Heritage Help offers information and advice on matters related to the management and protection of local historic environments. Heritage Help [online]. Available at: http://heritagehelp.org.uk [accessed 23 September 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 23 September 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 23 September 2021]

Historic Environment Local Management (HELM) - provides accessible information, training, and guidance to decision makers in local authorities, regional agencies, and national organisations whose actions affect the historic environment. Note: All HELM web content on the Historic England website [online] and available at: https://historicengland.org.uk/services-skills/training-skills/helmtraining [accessed 23 September 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 23 September 2021]

House Building Careers (part of HBF). Here you will be able to learn about the home building industry and how it benefits you, your community, and the country as a whole [online]. Further information available at: http://housebuildingcareers.org.uk [accessed 23 September 2021]

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I

Inclusive Design Hub for the Built Environment is a collection of the latest guidance and best practice on inclusive design in the built environment and a project of **The Design Council** [online]. Available at: www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment [accessed 23 September 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. INFA**BODE** [online]. Available at: www.infabode.com [accessed 23 September 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 23 September 2021]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 23 September 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 23 September 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 23 September 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 23 September 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 23 September 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 23 September 2021]

IWFM Digital Magazine, *facilitate* - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: www.facilitatemagazine.com/ [accessed 23 July 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 23 September 2021]

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J

JISC Library Hub Discover – Library Hub Discover replaces COPAC* and SUNCAT, offering increased coverage of university libraries along with new facilities and improved response times. Library Hub Discover currently contains 42,397,777 records created from 106,833,532 records contributed by 144 institutions. Jisc Library Hub Discover [online]. Available at: https://discover.libraryhub.jisc.ac.uk [accessed 23 September 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 23 September 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 23 September 2021]

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L

Leeds Beckett University's – School of the Built Environment, Engineering and Computing

[online]. Further information that includes 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 23 September 2021]

Leeds Beckett University's - Leeds Sustainability Institute [online]. Further Information is available at: www.leedsbeckett.ac.uk/leeds-sustainability-institute [accessed 23 September 2021]

Leeds Beckett University – The Library [online]. Available at: http://libguides.leedsbeckett.ac.uk/home [accessed 23 September 2021]

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R

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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 23 September 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 23 September 2021]

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S

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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 23 September 2021]

Specification Online – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at: http://specificationonline.co.uk [accessed 23 September 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 23 September 2021]

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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 23 September 2021]

Trust in Digital Repositories (TrustDR) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit. TrustDR [online]. Available at: https://trustdr.digitalinsite.co.uk [accessed 23 September 2021]

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U

UK BIM Framework – The overarching approach to implementing BIM in the UK. Further information on BIM Standards, Guides and Resources. UK BIM Framework [online]. Available at: www.ukbimframework.org [accessed 23 September 2021]

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 23 September 2021]

UCEM e-Library is a comprehensive and valuable online resource, supplementing teaching and learning materials and enabling students to access a wealth of subject-specific and credible information to support them throughout their studies. UCEM e-Library [online]. Available at: www.ucem.ac.uk/e-library [accessed 23 September 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 23 September 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 23 September 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 23 September 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 23 September 2021]

UWE, Library, Search for things: A-Z [online]. Available at: www1.uwe.ac.uk/library/searchforthingsa-z.aspx [accessed 23 September 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 23 September 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 23 September 2021]

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Z

Zetoc: Informing Research - The monitoring and search service for global research publications, providing access to over 36,000 journals and more than 59 million article citations and conference papers through the British Library's electronic table of contents and over 875,000 Open Access (OA) article citations and conference papers from PubMed. Zetoc [online]. Available at: http://zetoc.jisc.ac.uk// [accessed 23 September 2021]

(**Note**: *The web links provided were correct at the 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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UCEM Social media: Facebook, Twitter, LinkedIn, YouTube

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