



Knowledge Foundations

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What's in this month's issue

- **Latest UCEM News** incl. - Education Department implements successful anonymous forum post trial.
- **Things you need to know this week** – London councils buy back 1500 homes under mayor's initiative. Programme helps 14 councils buy back homes lost through right to buy.
- **Latest Research** from Savills, The Smith Institute, RICS, CBRE, Joseph Rowntree Foundation, and more.

Happy reading!

Issue 9 – September 2022

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

Education Department implements successful anonymous forum post trial

Anonymous assignment forum posts could be here to stay after an encouraging pilot scheme led by two members of UCEM's Education Department.

UCEM Real Estate and Management Tutor, Hazel Lobo, enlisted the support of Learning Designer, Sharvari Balagatte Ramesh, after students on the Level 4 'Law for the Built Environment' module fed back that fear of appearing silly or not being sure whether to ask certain questions or not was stopping them from posting on the assignment discussion forum.

Identifying the need to anonymise responses to remove this barrier, Sharvari implemented anonymous assignment forums for the module's autumn 2021 cohort. Comparing responses with the 'People and Organisational Management' module studied at the same time by the cohort revealed that 121 discussions were initiated by students on the law module which had the anonymous function whilst just 51 discussions were initiated by students on the management module which didn't have the anonymous function. In addition to this, 88% of students who responded to a survey on the law module said they would like the anonymous post feature replicated across other UCEM modules.

Hazel comments: "At UCEM, we work really hard to identify and remove barriers to student success. Talking, and listening, to students is key to this.

"Once I had made the original suggestion for anonymous forums, Sharvari was an absolute warrior at getting them implemented. Her persistence and passion paid dividends for students, and she is commended for this."

Sharvari adds: "As a Learning Designer, my job is to make learning simple, engaging and create opportunities for students to be successful in their programmes. The solution was implemented using the Open LMS Open forum and provided students with the opportunity to post queries anonymously. Although the default setting was anonymous, students also had the choice to 'reveal identity' if they wished to see this."

The Digital Education Team at UCEM is exploring further options to enable the incorporation of anonymous forums which, as shown in the pilot study, not only support students but also reduce staff workload. For more information on the project, take a look at [**Sharvari and Hazel's post for the Online Education Team's blog.**](#)

Access the article '[**Education Department implements successful anonymous forum post trial**](#)' in full.

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Other UCEM News



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Current and former UCEM tutors co-author real estate book

All the basic concepts of real estate are available in one place thanks for the publication of a new book.

UCEM Associate Tutor and Module Leader, Jane Forsyth, and former UCEM Tutor and Module Leader, Dr Jan Wilcox, are the co-authors of *Real Estate: The Basics*.

The duo embarked on the project after students identified a gap in the market for a book introducing the core concepts of real estate to those new to the industry. Jane now uses the book – which was published earlier in the year (2022) – as a source for UCEM students, and it is also suitable for peers at other universities, school students, apprentices, those developing their careers or changing their roles within the sector or those looking to change career.

Further information on this book can be found within the 'e-Book review' section of *Knowledge Foundations*.

Access the article '[Current and former UCEM tutors co-author real estate book](#)' in full.

UCEM Research Officer wins prestigious leadership award

A UCEM employee is the proud recipient of a prestigious leadership award for her efforts to push forward the sustainability agenda across the world.

Access the article '[UCEM Research Officer wins prestigious leadership award](#)' in full.

Party atmosphere as first Class of 2022 cohort celebrate at Graduation

Glasses clinked, arms were raised aloft triumphantly, and guests cheered as more than 150 recent students graduated at Reading Town Hall.

Access the article '[Party atmosphere as first Class of 2022 cohort celebrate at Graduation](#)' in full.

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UCEM apprentice becomes Student Trustee and Lead Student Representative

UCEM Chartered Surveyor apprentice, Joe Orrell, is the institution's new Student Trustee and Lead Student Representative. Joe, who is studying on UCEM's BSc (Hons) Building Surveying programme, begins in the dual role in July after being successful in his application for the position.

Access the article '[**UCEM apprentice becomes Student Trustee and Lead Student Representative**](#)' in full.

UCEM alumni co-found development management business

A new development management company has entered the Dublin market after two UCEM alumni joined forces to co-found their business. Cillian Doyle and Steven Cronin, who graduated from UCEM's MSc Real Estate programme in 2020, are directors and co-founders of Kimberlite.

Access the article '[**UCEM alumni co-found development management business**](#)' in full.

#StandWithUkraine

UCEM



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The All-Party Parliamentary Group for Libraries, Information and Knowledge (APPG) noted the '[**Statement of Solidarity with librarians, archivists and information professionals in Ukraine**](#)', produced by the Chartered Institute of Library and Information Professionals (CILIP) with signatures from more than 800 leading national institutions, including the British Library, the National Library, Wales, National Library Scotland and [UCEM e-Library](#). In addition to the above statement CILIP have set up - **Support for Ukrainian information professionals & The Ukraine Crisis Hub** - Ukrainian librarians and information professionals displaced by the invasion who find themselves in the UK are able to join CILIP free of charge and to access professional support including: • Advice on finding work; • Access to job listings; A one-to-one conversation with a specialist recruiter; • Support from Specialist Interest Groups, and • Free access to professional registration and continuing professional development.

[**Access further information on Ukraine Crisis Hub**](#)

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Also:

CIOB and UCEM team up to deliver an apprenticeship with a route to chartered status

UCEM programme leader shares research at prestigious international historic building conference

UCEM programme leader wins seat on RICS Governing Council

UCEM boosts its accessibility credentials with launch of course for staff

UCEM passes first ever Ofsted inspection with flying colours

UCEM and DiverseCity Surveyors launch BAME mentoring scheme

UCEM joins campaign to drive better gender balance at board level, and

- **Access further information about the 30% Club**,
- **Access more information on UCEM's diversity and inclusion objectives**

<https://www.ucem.ac.uk/whats-happening/news/new-research-calls-for-recognition-of-commercial-opportunity-over-obligation-in-delivering-goods-or-services-to-those-with-a-disability>/UCEM reasserts its commitment to organisational excellence with Advance HE membership, and

- **Access further information on Advance HE**.
- **For more on UCEM's ambitions, take a look at the Institution's *Vision and Strategy* brochure**

COVID-19: UCEM Management response to COVID-19

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 –

Email: **reception@ucem.ac.uk**, Tel: +44(0)118 467 2100

Note: Keep abreast of the latest UCEM News and events

– Read our blog to keep updated on Building Environment industry insights, student case studies, and thoughts from UCEM Principal: Ashley Wheaton.

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Other News

Things you need to know this week: London councils buy back 1500 homes under mayor's initiative

- Programme helps 14 councils buy back homes lost through right to buy to meet need for social rented or homeless housing.

An initiative by the London mayor to help councils buy back homes lost to them through right to buy, so that they can make them available for social rent or for homeless accommodation, has seen more than 1,500 homes acquired in its first year. The right to buy back programme was allocated £152 million to 14 boroughs to purchase 1,577 homes, including 908 homes for social rent. Mayor Sadiq Khan said, "These homes were built for the public good and it has been painful to watch them disappear into private portfolios".

Also, this month,

- Birmingham City Council has announced plans to retrofit 300 homes in East Birmingham with energy saving measures as part of a retrofit initiative spanning Birmingham, Coventry and Wolverhampton. The council aims to test approaches to improving thermal efficiency, reducing carbon emissions and saving energy in the homes, as part of the 3 Cities Whole House Retrofit Pilot.

- Developer Ballymore has entered a 50/50 joint venture partnership with the London Legacy Development Corporation (LLDC) to develop two sites at Queen Elizabeth Part in Stratford, east London. The partnership aims to deliver almost 1,200 homes, with 575 planned for the Bridgwater Triangle site, half of which are expected to be affordable, and 600 for Stratford Waterfront, where 35 per cent of homes are expected to be affordable. Development, which will provide a mix of property types, is also set to include ground floor retail space.

- Silbury Finance, the Oaktree Capital Management backed development lender, has backed residential schemes in London and Reading with £100 million of funding in all. It provided developer Avanton with a £68 million stretch facility to help support the redevelopment of a former Carpetright warehouse site to create 262 mixed tenure flats in two towers at it's the Ruby regeneration in Old Kent Road, south east London. In its second transaction, Silbury provided developer Kings Oak Capital with a £28.5 million acquisition and development loan for an office to residential conversion in Reading, Berkshire. The 24-month facility, at 60 per cent loan to gross development value (LTGDV), will enable the conversion of the former UK headquarters of telecoms company Three into 110 apartments.

- Government agency Homes England has appointed a

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Multi-disciplinary team led by Tibbalds Planning and Urban Design as masterplanner and planning consultant for the proposed 355 home Houghton Regis development, on the outskirts of Luton.

- Residential landlord Get Living has signed a £71 million forward deal with build-to-rent developer Watkin Jones, which will see the latter deliver 214 build-to-rent homes in Leatherhead, Surrey. The apartment scheme will provide 36 discount market rent homes plus resident amenity space and landscape gardens. This is Watkin Jones and Get Living's second deal since April, when the pair agreed a £136 million forward funding deal to deliver 551 build-to-rent homes in Birmingham.

- Developer Shearer Property Group (SPG) has named developer Hill Group as its development/funding partner for the City Centre South mixed use regeneration scheme in Coventry city centre. Outline planning permission was granted for City Centre South in January 2022 and SPR will now work with the council to submit a series of detailed planning applications.

- New homes in England are set to be more accessible and adaptable, following a government commitment to raising standards. After publishing the outcome of a consultation on the matter, the government confirmed plans to require newly built homes to achieve an increased level of accessibility and adaptability, incorporating such features as step-free access to all entrance-level rooms.

[Read the full 'Need to Know: London councils buy back 1500 homes under mayor's initiative' 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: Redeveloping a city site into a net-zero workplace

- Developer Quadrum has set ultra-high sustainability targets for its redevelopment of a tired 1950s officer building in London's Victoria.

Recent years have seen a shift in occupiers' expectations of buildings they occupy, driven by growing awareness around the climate crisis and the need for urgent action to meet the UK's net zero targets by 2050. Workplaces are needing to align with environmental, social and governance (ESG) standards to attract and retain businesses and their employees, while the pandemic has resulted in greater emphasis being placed on buildings supporting occupier wellbeing, offering flexibility and promoting collaboration.

These factors informed plans by owner-developer Quadrum to

redevelop 11 Belgrave Road, in London's Victoria, turning a tired 1950s office building into a 150,000 sq. ft net zero workplace by late 2023.

The building is the UK's first to achieve a design-reviewed 5.5 Star target rating under the NABERS UK energy efficiency rating system. It features 108,000 sq. ft of Grade A office space with café and gym, 14,000 sq. ft of communal areas, 13,000 sq. ft of greenery, a private garden and a rooftop with views of the capital's skyline.

As well as achieving the 5.5 Star target rating under NABERS UK, the scheme sits in the top 1 per cent of BREEAM assessed buildings, having attained a design stage BREEAM Outstanding rating, as well as UKGBC Net Zero Carbon in both construction and operation. It has also achieved WELL Pre-certification and is targeting WELL Platinum certification upon completion and on-site testing.

Challenges

Working to several different targets at once presented some challenges, not least in adhering to strict criteria and managing a host of details from the earliest phase of the project. Every decision made at design stage needed to lead to a building that is net zero in construction and also in use.

This challenge was further compounded by the site's prominent location in the middle of a busy central London neighbourhood. The project team needed to minimise disruption, find ways to integrate ample green spaces, and combine beautiful architecture with net zero to give the best possible occupier experience. Achieving the first NABERS UK 5.5-star rating was a learning curve, with no existing UK example to follow.

Solution

Quadrup collaborated with a team comprising Eric Parry Architects, landscape architect Gillespies and construction company BAM. Engineering consultant Max Fordham led on the NABERS UK Design for Performance process, services consultant Delta Green advised on the BREEAM Outstanding rating, and consultant Ekkist supported on the WELL Platinum target.

A top priority was reducing embodied carbon and Max Fordham's modelling – based on the UKGBC net zero carbon buildings framework and RICS whole life carbon analysis – will achieve a whole life carbon level that surpasses the RIBA 2030 Challenge by 38 per cent. In all 35 per cent of the existing structure will be retained, with additional materials being prepared off-site, reducing disruption and waste.

The building is fully electric and high efficiency photovoltaic (PV)

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panels on the roof cut CO2 emissions by 35 per cent and supply renewable energy.

After handover

The project looks to set new standards for the workplace of the future, in its design, sustainability, futureproofing and focus on health and wellbeing and gives major consideration to how the building's operations can be as designed. Quadrom will proactively share knowledge, information and tools so its occupiers can run their building sustainably after handover.

Read the Case Study entitled, 'Redeveloping a city site into a net-zero workplace' 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').

Analysis: When the climate crisis and the energy crisis hit home

- While the cost of energy to heat and cool UK homes soars, progress in driving energy-efficient retrofit and adaptations of homes to our changing climate has been slow, the author of this article reports.

Whether it is record summer temperatures or severe winter weather, the UK's 27 million homes seem ill-equipped for our changing climate and its more extreme conditions, leaving residents bearing the energy costs of heating or cooling and presenting risks to human health.

Those impacts are not experienced equally. The UCL Institute of Health Equity (IHE), led by renowned epidemiologist Professor Sir Michael Marmot looked at the issues – and potential solutions – in its 2020 report, **Sustainable health equity: Achieving a net zero UK**, which it produced for government advisory body the UK Committee on Climate Change (CCC). It highlights the link between fuel poverty and poor housing, pointing out "The three main drivers of fuel poverty in the UK are the thermal efficiency of homes, housing incomes and energy prices." Think tank Centre for Cities' latest report, **Out of pocket: The places at the sharp end of the cost-of-living crisis**, puts these drivers into our current economic context.

The report found that households in cities and large towns in the north, Midlands and Wales were likely to face higher inflation rates, Burnley being hardest hit with an inflation rate of 11.5 per cent in May. Much of this is due to energy and vehicle fuel costs, which in areas where incomes are lower make up a higher proportion of overall household spending. These areas also have relatively high levels of poorer quality, poorly insulated – and so more costly to

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heat – homes, with more than 70 per cent of Burnley’s housing recording an Energy Performance Certificate (EPC) level of band C, Centre for Cities reports.

According to the Office for National Statistics, fewer than half of assessed homes in England and Wales have an EPC rating of C or higher, the EPC scale running from the top rate A to the worst performing G. Across the tenure types, social rented homes have the highest energy efficiency levels and private rented homes the lowest, with around 3 million private rented homes in England and Wales having a rating of D or below. The government’s Minimum Energy Efficiency Standard (MEES) for private rented housing requires an EPC rating of E or above, while a government commitment to raise this standard to a C rating by 2030, is “behind schedule”, notes the CCC in its [2022 Progress Report to Parliament](#), published in June 2022.

The CCC’s progress report highlights the slow progress being made in driving energy efficiency improvement in existing homes. The UK government has set the goal for most homes to be brought up to an EPC of at least C by 2035. It states that the government schemes supported energy efficiency upgrades in more than 150,000 homes in 2021 but says the number of homes receiving energy efficiency upgrades needs to increase to 500,000 homes a year by 2025 and 1 million a year by 2030. But at the same time, summer overheating has its own impacts, with a new reports from CCC, [Risks to health, wellbeing and productivity from overheating in buildings](#), citing the Department of Business, Energy and Industrial Strategy commissioned research, which found there is “some evidence to suggest that the prevalence of overheating in living rooms was greater in dwellings with an EPC rating of A to C (13%) compared with dwelling with EPC D or below (10%)”.

[Further information and read the article, ‘Analysis: When the climate crisis and the energy crisis hit home’ 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’).

Review: High density housing development in London

- Oaklands Rise in west London is close to the limit of acceptable density, but its design quality still manages to provide a sufficient level of amenity, writes the author of this article.

June saw the adoption of the Old Part and Park Royal (OOPR) Local Plan in west London, a major step forward for one of the UK’s largest regeneration projects since the development corporation was established there in 2015.

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During this time, extensive study, consultation and engagement has been completed for the 650 hectares of mainly industrial and railway land that was identified as an 'opportunity area' in the updated 2011 London Plan.

One of the most strategically located sites is Oaklands Rise – a 1.18-hectare parcel sitting almost on top of the Old Oak Common 'superhub' that will link the High Speed 2 and Elizabeth train lines. The £175 million scheme is being delivered by a team that includes architect CZWG, planning consultant DP9 and landscape architect Churchman with main contractor Galliford Try, on behalf of Notting Hill Genesis Housing Association and Queens Park Rangers Football Club, which had considered moving to the area in 2013.

Planning permission was secured in 2016, but construction has delayed with the pandemic and the development is now complete and partially occupied.

High density design

The 2015 area development framework identified an unusually high density of 550 dwellings per hectare (dph) for the site. This was twice the maximum density of 240 dph permitted by the London Plan at the time, but it was allowed because of the site's connectivity. The resulting scheme delivers 605 dwellings with 40 per cent affordable housing at 520 dph, slightly below the target density. The mix is mainly two- and three-bedroom homes with no studios. In addition, it provides 3,500 square metres of employment floorspace, 120 car parking spaces and 1,080 cycle spaces.

Accommodation is distributed in three blocks of between 6 and 27 storeys that are at right angles to the canal and separated by an adopted road and a semi-private garden and play area. This arrangement provides greater openness through the site, giving views and natural air to habitable areas. Amazingly, the ground floor plot coverage is approximately 50 per cent. This is achieved through a sub-level deck that unifies the blocks and conceals parking and services.

Brick cladding relates to a local vernacular and two different tones are used to break up the building mass and root the building – the lighter one marries with the hue of columns, paving and planters at ground level.

Further information and read the article, 'Review: Redevelopment of a city square' 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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Education Latest [August 2022]

[Access the latest Education news](#)

[Three top tips on making an apprenticeship work](#)

- Norfolk apprentice shares top tips on making it work. An 18-year-old plumber has shared her top tips for new apprentices on how to make sure it is successful.

Sophie Maguire, from Norwich, said she “jumped at the opportunity” of learning something practical and applied for more than 50 **apprenticeships – [paid schemes which combine practical training in a job with study](#)**.

See also: UCEM student, Turner C (2022) ‘**[Apprentice shares experience as she learns](#)**’, *Built Environment Journal*, London: RICS. #BuiltForApprenticeships #BuildingControl #Apprentice

BBC Latest – Climate [August 2022]

[Access the BBC News, Latest Climate reality check](#)

[California to ban sales of petrol-only vehicles by 2035](#)

- California is to ban the sale of new petrol-only vehicles by 2035, marking a historic step in the state’s attempt to tackle climate change.

The new rules are aimed to force car makers to accelerate the introduction to the market of cleaner vehicles. It comes after Governor Gavin Newsom set a target in 2020 to speed up the shift away from fossil fuels. The move is important as California is the most populous state in the US and one of the world’s biggest economies.

Related article:

- [A really simple guide to climate change](#)

Also: Please visit the ‘**[Sustainability Hub](#)**’ within *Knowledge Foundations* for further information and related articles.

BBC Latest - Coronavirus – latest developments [August 2022]

Coronavirus pandemic

- China outcry after volleyballers don N95 masks,
- Who will get a Covid booster this autumn (2022),
- Hospitals in England to stop routine Covid testing,
- Experts had too much power over lockdowns – Sunak,
- Dr Anthony Fauci to step down after 38 years,
- Covid infections in UK continue to fall,
- Covid booster rollout to start in early September,
- UK Covid-19 infections falling across most of UK.

[Access the BBC News, Latest Coronavirus pandemic news](#)

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Related Link(s): Coronavirus: Why some people want to keep working from home –

[Access the BBC News article entitled, ‘Coronavirus: Why some people want to keep working from home,’ in full.](#)

Also:

[Living with Covid plan to restore our freedom - PM](#)

[What are the UK’s ‘Living with Covid’ plans?](#)

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.](#)

[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

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

Related links:

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 Management* article, ‘What will the post-pandemic office look like?’ in full.](#)

‘Generation Work from Home’ – the impact of default flexible working - The UK government has announced proposals to make flexible working a ‘day one’ right for employees, as part of reforms to the Flexible Working Regulation 2014.

[Read the Shoosmiths article, ‘Generation Work from Home’ – the impact of default flexible working’ in full.](#)

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



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Emerald Publishing, one of the UCEM e-Library subscription services, have brought together a number of research

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resources related to the Coronavirus group of viruses, and epidemics more broadly.

Emerald collated research and the management of epidemics and made it freely available to assist practitioners and researchers who are working to tackle the current situation and likely consequences. Whilst these materials do not only relate to the current clinical challenges of Novel Coronavirus, 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

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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](#)**

[Latest News: *Construction Management \(CM\)* \(formerly *Construction Manager*\) \[August 2022\] Change management culture to fix the skills problem](#)

- The leadership of every construction company needs to take responsibility for the skills crisis, the author of this article says.

In June 2021, the CITB (Construction Industry Training Board) predicted that the industry will need to recruit 266,000 extra people between now and 2026.

But it isn't 'the industry' that will solve the skills problem: that's down to the leadership of every company in it. Consider the drive to attract more women. We know companies struggle to recruit women, but a deeper problem is their difficulty in retaining them. Some 57% of female engineers drop off the professional register by the age of 45 compared to just 17% of male engineers, says the **[Royal Academy of Engineering](#)**.

Retooling recruitment – Companies should retool their recruitment processes to cast the net more widely, but it won't bring real change if the environment new people enter pushes them back out the door.

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Starting conversations – When managers incorporate simple coaching techniques into their management style, they stop giving orders and instead start conversations with their people about how they'll fulfil their responsibilities. This therefore changes the dynamics.

Access and read the article in full, Stitt D (2022) '[Change management culture to fix the skills problem](https://constructionmanagement.co.uk/change-management-culture-to-fix-the-skills-problem/)', *Construction Management* [online], 23 August. Available at: <https://constructionmanagement.co.uk/change-management-culture-to-fix-the-skills-problem/> [accessed 26 August 2022]

Latest News: Global Construction Review (GCR) **[August 2022]**

US construction costs will increase by 14% by end of 2022

- The world's largest real estate company, Coldwell Banker Richard Ellis (CBRE), has predicted a 14.1% year-on-year increase in US construction costs by the close of 2022, citing financial pressures such as inflation, labour shortages, supply chain challenges, Covid-19 and Russia's invasion of Ukraine.

It is the largest jump since CBRE began making cost projections in 2007.

2021 saw a 11.5% rise, which also exceeded the 2-4% increase expected that year.

CBRE predicts that cost inflation will fall to 4.3% in 2023 and 2.9% in 2024, as inflation, as supply chain problems recede.

But it calculates that delays in material deliveries, labour security and semiconductor shortages will endure.

Access and read the article in full, Quirke J (2022) '[US construction costs will increase by 14% by end of 2022](https://www.globalconstructionreview.com/us-construction-costs-will-increase-by-14-by-end-of-2022/)', *Global Construction Review* [online], 26 August. Available at: www.globalconstructionreview.com/us-construction-costs-will-increase-by-14-by-end-of-2022/ [accessed 15 July 2022]

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 **[August 2022]** surrounding sectors such as **Real Estate** that include:

The end of residential ground rents

- The Leasehold Reform (Ground Rent) Act 2022 (the Act) came into force on 30 June 2022. Headlined as one of the 'most significant changes to property law in a generation,' the Act restricts ground rents on newly created long residential leases.

Also- [The top five planning law cases you need to know](#)

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How developers can prepare now for the Building Safety Act series:

How developers can prepare now for the Building Safety Act: Part 1 of 3

The Building Safety Act received Royal Assent on 28 April 2022. With aspect of the new regime unclear, this series of articles looks at what steps developers can take now.

How developers can prepare now for the Building Safety Act: Part 2 of 3

In Part 2, Shoosmiths discuss the dutyholder regime and look at the steps developers can take now to prepare.

How developers can prepare now for the Building Safety Act: Part 3 of 3

In this final part of this series, Shoosmiths take a look at the new gateway regime for higher risk buildings.

Keywords – Real estate, ESG, New How Perspectives, New How,

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.

The Pathway to Lifelong Education: Reforming the UK's Skills System

- The UK has a longstanding skills problems which is impacting on economic growth. Adult participation in learning has declined, particularly among part-time students, while fewer people in work are taking up training to reskill or upskill. More

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generally, there is a shortfall in vocation and higher technical qualifications.

In this first report, with Ashley Wheaton, Principal, University College of Estate Management acknowledged as one of the contributing experts, the Lifelong Education Commission seeks to recommend how the barriers to adult learning can be removed; what future investment is needed to support this; and what change is needed to ensure the maximum flexibility that will benefit learners and deliver on the promise of a whole system change for lifelong education.

The Report makes a series of recommendations for reform, including:

- A single source of careers advice, to 'professionalise' and regulate careers information, advice and guidance
- Means-tested Maintenance Grants for learners over and above the Lifelong Loan Entitlement, in order to subsidise costs and encourage uptake, particularly among those for whom debt is a barrier
- The abolition of the Equivalent or Lower Qualification (ELQ) rules, to support retraining at higher levels
- Extending the Apprenticeship Levy to cover a wide range of high- quality training, including short modular courses, in order to provide additional flexibility and incentivise employer investment in skills training
- Stronger HE-FE partnerships to provide integrated pathways to higher-level skills; and alignment with industry and online providers to enable better coordination between schools, colleges, universities, and employers.
- Reform of the regulatory framework to simplify the jurisdiction between multiple qualification bodies;
- Learning lessons from Scotland, where 'articulation agreements' offer clear routes between FE and HE allowing students with Higher National Certificates and Diplomas to access the second or third years of degree programmes.

Access the summary and report, 'The Pathway to Lifelong Education: Reforming the UK's Skills System' in full.

Related Links:

FE news.co.uk (2021) '[Reforming the UK's Skills System – First Report from the Lifelong Education Commission](https://www.fenews.co.uk/news/2021/09/20/reforming-the-uk-s-skills-system-first-report-from-the-lifelong-education-commission/)'[online]. Available at: www.fenews.co.uk [accessed 8 October 2021]

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

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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 [[August 2022](#)] new [free CIRIA practice guidance](#) and publications that include:

[*Code of practice for property flood resilience \(C790\)*](#) –

This 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).

[*The Management of advanced numerical modelling in geotechnical modelling \(C791\)*](#) -

This guide provides a framework for those who oversee the process, provide the information needed for this task and use the results of the numerical modelling.

[*Methodology for quantifying the benefits of offsite construction \(C792\)*](#) -

This guidance proposes a framework for comparing construction approaches, making it possible to keep consistent records across projects and identify all the possible benefits available.

Other guides include:

[*Retrofitting ground gas protection measure \(C795\)*](#) [*Grouted anchors and soil nails \(C794\)*](#)

Grenfell Tower Inquiry – latest developments

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

[Latest update](#) [[August 2022](#)]

[End of Phase 2](#) – The inquiry has concluded hearings for Phase 2 and is closed to the public. The Inquiry Panel will now be preparing the final report.

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

July 2022 newsletter – The Inquiry has published an update on its work.

Also: Latest from the Inquiry

Latest update from the Inquiry [[August 2022](#)] – The Inquiry has published an update on its next community drop-in session.

This update provides a digest of:

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- **July 2022 Newsletter** – The Inquiry has published an update on its work.
- **Closing remarks from the chair** – The Inquiry has published the transcript of the Chair's closing remarks for the end of Phase 2 hearings.
- **End of Phase 2 Hearings** - The Inquiry has published an update on the end of Phase 2 hearings.

[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 construction 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. 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, never 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 23 February 2022]

Related Topics

-  [Construction industry](#)
-  [UK fire safety](#)
-  [Grenfell Tower fire](#)
-  [Grenfell Tower Inquiry](#)

Also:

[RICS Fire safety Hub \[online\]](#) - containing advice for the public, building owners, landlords, corporate occupiers and RICS professionals and information on fire safety on buildings with external wall systems.

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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 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.

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.](#)

RIBA Stirling Prize 2021

The RIBA Stirling Prize is the UK's most prestigious architecture award. The award is given to the architect of the building thought to be the most significant of the year for the evolution of architecture and the built environment.

RIBA Stirling Prize shortlist 2021 included: (i) [15 Clerkenwell Close](#), (ii) [Cambridge Central Mosque](#), (iii) [Key Work Housing, Eddington, Cambridge](#), (iv) [Tintagel Castle Footbridge](#), and (v) [Windermere Jetty](#), and the **WINNER**,

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announced on 14th October 2021 was (vi) [Kingston University London – Town House](#), - essentially a library, but designed as a building for the whole community with cafés, an outdoor reading room roof terrace and a performance space. @KingstonUniLib by @graftonarchs

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



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

Tomorrow's Engineers



© EngineeringUK 2021

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

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

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

Also: Access - RICS President Clement Lau's article, entitled, ['Women are not equally represented in our sector'](#), RICS *Modus* [online].

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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.
- **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.
- **UK & Global Construction Monitor** – The leading sentiment indicator of the construction markets.
- **UK Facilities Management Survey** – The UK Facilities Management survey is a quarterly indicator of activity and sentiment across the facilities management industry.
- **UK & Global Commercial Market Survey** – The global commercial property monitors are leading indicators of conditions in commercial property occupier and investor markets around the world.
- **UK Economy and Property Market Update** – The Economy and Property Market Update is a new quarterly assessment of key macro, real estate and construction trends.
- **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.

Note: Further updates are provided within the 'Latest Property and Construction Statistics' section of *Knowledge Foundations*.

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.

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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 2022]

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

The UK House Price Index (UK HPI) captures changes in the value of residential properties. The UK HPI uses sales data collected on residential housing transactions, whether for cash or with a mortgage.

Properties have been included:

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

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

The summary report contains:

- Headline statistics
- The economic statement
- Price changes
- 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: reports', Last Updated 17 August 2022' in full.](#)

Contents:

- June 2022
- About the UK HPI, and
- Archived reports and data.

Related Content:

- UK House Price Index: data downloads April 2022
- UK House Price Index for April 2022
- UK House Price Index: data downloads February 2022
- UK House Price Index: reports 2022
- UK House Price Index

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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.'

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.

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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

In May 2020, the CIOB published their report on Understanding Mental Health in the Built Environment. The report, which surveyed people across the globe, presented harrowing statistics of high numbers of workers experiencing extreme levels of stress over a prolonged period, with many people reporting that they had considered taking their own life in 2019.

The report calls on professional bodies to do more to encourage mental health and wellbeing awareness among members, to develop globally applicable mental health resources that will increase understanding and reduce stigma within the construction industry.

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](https://www.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

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guidance on targeting, designing, and evaluating sustainable outcomes for buildings, defining concise measurable set of eight sustainable outcomes that correspond to key UN Sustainable Development Goals and can be delivered on building projects of all scales.

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

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

The National Trust protect historic houses, gardens, mills, coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages, and pubs. While they are very passionate about open spaces and historic places, they also work hard in other areas too, including the environment, food, farming, transport, and heritage – to name but a few.

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

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

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

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

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,

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- Minimising or preventing all types of pollution and risk of flooding,
- Safeguarding important wildlife, landscape, and historic interests,
- Respecting local/regional distinctiveness, supporting local sources for goods and services where practical, and - Encouraging community involvement and access.

[Read the National Trust Planning Principles](#)

The National Trusts' planning procedure

The National Trust have developed the following criteria to ensure online suitable projects proceed:

- Adhere to the policies in the relevant local plan,
- Deliver energy efficiency and reduce carbon dioxide emissions,
- Build in harmony with the local environment, built and natural,
- Involve the local community throughout the process.

Case studies are provided.

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

Foster + Partners Projects

Foster + Partners Projects – one of the most innovative architecture and integrated design practices in the world. Over the past four decades the practice has pioneered a sustainable approach to architecture through a strikingly wide range of work, from urban masterplans, public infrastructure, airports, civil and cultural buildings, offices and workplaces to private houses and product design. By visiting their website, you can gain further 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 Royal Institute of British Architects (RIBA) first published the RIBA Plan of Work.

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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.

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

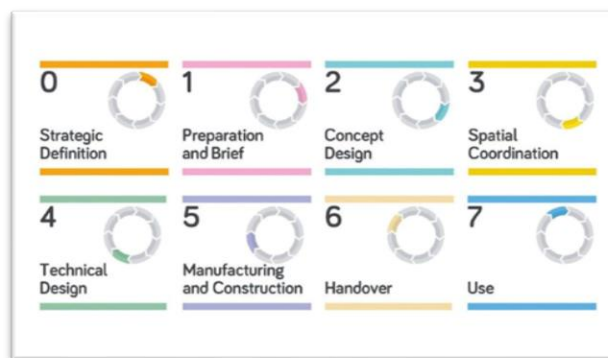
4 – Technical design – no change

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](#)

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Autodesk and CIOB map the digital construction journey

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

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

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

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

Building Information Modelling (BIM)

[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 BIMPlus News and Projects](#)

[August 2022] –

- **Projects – BMW: the ultimate driving machine meets the digital twin**, 25 August 2022.

- Automotive giant BMW plans to have digital scans of all its vehicle plants worldwide completed by early 2023 as part of its digital twin plans.

To digitise its existing plants, BMW has turned to site scanning specialist NavVis. BMW is using NavVis's mobile 3D laser scanners to create photo-realistic panoramic images, floorplans and scatter plots of all its plants, including all building structures, facilities and outdoor areas.

Since November 2020, around 4m sq. m of indoor space and 9m sq. m of outdoor space at BMW plants have been scanned.

Around 15,000 BMW employees are already working with this data, using a cloud-based platform, BMW Factory Viewer (based on NavVis's IVION Enterprise platform, part of its

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so-called Digital Factory Solution). Via the viewer, existing plants can be virtually inspected, specific points in production found via points of interest, and precise measurements carried out.

The system also allows individual sections of the 3D scans to be cut out and made available to external suppliers. This saves time and effort during production planning, improves collaboration with internal and external interfaces and eliminates planning errors, BMW claims.

Michele Melchiorre, head of production system, planning, tool shop and plant construction at the BMW Group, says: "This opens up entirely new possibilities for us to implement both extensive new planning and smaller-scale remodelling of existing structures in a highly efficient, precise and flexible manner."

Virtual planning – Virtual planning is a core element in BMW's strategic vision for the digitalisation of production: the so-called iFACTORY. BMW's aim is to make planning and simulation of all processes and the entire production system 100% virtual.

The 3D scanning technology also allows both smaller and larger-scale remodelling projects at BMW plants to be transferred into the digital world, using the so-called re-scan process. BMW is developing its own autonomous scanning robots to keep the digital master data current, thus avoiding the need for continuing human resource.

Twinning future production plants – And it's not just about existing facilities: for new production plants, BMW will work with NVIDIA and its Omniverse software platform.

Melchiorre concludes: "Partnerships like those with NVIDIA and NavVis allows us to combine our pioneering spirit and process know-how with cutting-edge technologies."

Gain access to further information and full access to the project case study article, entitled '[BMW: the ultimate driving machine meets the digital twin](#)', BIMPLUS Projects.

Other BIMPLUS Projects include:

- **Projects – Maber uses Archicad to aid collaboration on medical research facility**, 8 July 2022.
- Maber used Archicad to engage with the client and to collaborate effectively with the supply chain on the development of a medical research facility at Nottingham Trent University.
- **Projects – [Communicating and solving design changes with technology](#)**, 17 May 2022.

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- 80 Goodhall Street is a mixed-use development in west London. Architect airc.design had to respond to some challenging design changes that affected the project in RIBA stages 3 to 5, so it leaned on Archicad to help communicate the changes.

- **Projects – BIM crucial to redevelopment of Bristol's historic print works**, 29 April 2022.

- The £35m mixed-use redevelopment of the iconic Everard's Printing Works in the historic quarter of Bristol into a four-star, 255-bedroom hotel, alongside new apartments and commercial premises, came with many conditions and considerations. BIM was the only option for the scheme's architect, Edinburgh-based AMA Studio.

- **Projects - Case Study: How a Northern Ireland motorway became a BIM pioneer**, 27 January 2022.

- Applying the new BIM ISO 19650-3 standard to digitise asset information about a design-build-finance-operate (DBFO) road built 15 years earlier is paying dividends for the Amey Road NI team.

- **Project: 3D visibility key on Piccadilly Lights project**, 17th February 2022.

- Accuracy and 3D coordination were essential for Swanton Consulting when it was chosen to design the temporary works for a £250m development project that features London's iconic Piccadilly Lights at its core.

Client: Landsec; **Architect:** Fletcher Priest; **Principal contractor:** Wates; **Temporary works designer:** Swanton Consulting.

- **Project: Going digital drives East London brownfield development**, 8 February 2022.

- Taking a digital approach for the first time helped architecture practice Waugh Thistleton to play a significant part in the successful delivery of a brownfield development near East London's Olympic Park.

Client: Vastint; **Architect:** Waugh Thistleton; **Main contractors:** Henrys Construction and then Copper Projects; **Structural engineer:** eHRW; **Timber engineer:** Euban; **Mechanical engineers:** Peter Brett Associates (design stage).

GBE (construction); Planning consultant: GL Hearn; **Groundworks & civils (construction):** John F Hunt; **Landscape architects:** Planit-IE.

[Back to top](#)**BIM in action: 2020's top five projects**

22 December 2020

- Hospitals, housing, hotels: **BIMPLUS** covered case studies of BIM in action in all sorts of construction projects across the world. Given what happened in 2020, it's not surprising that three of the most read case studies focus on hospitals.

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

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

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

Related BIM+ Projects

- **(1) Project:** [John Sisk relies on BIM best practice to deliver Malmo data centre](#), 2nd November 2020.

- John Sisk & Son is nearing completion on a data centre project in Malmo, Sweden. Adopting BIM best practice has been crucial to keep construction on programme given a fast-tracked programme amid the Covid-19 pandemic.

The 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.

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- **(2) Project: Finland's Hospital Nova uses VR to involve staff in building, 28th April 2020.**

Lead Contractor: The Central Finland Health Care District
BIM Tools: Tridify

- Innovative processes have been used in the co-design of Finland's new Hospital Nova using BIM models and involving more than 350 staff.

- **(3) Project: NHS Nightingale Hospital, East London – how BIM played its part, 5th May 2020.**

Client: Barts Health NHS Trust, Royal Free London NHS Foundation Trust

Lead Contractor: Lead Designer: BDF

BIM Tools: Autodesk Revit

- The UK's newest (see publication date) and largest hospital, based at the ExCel conference centre in London's Docklands, is designed to care for up to 4,000 people affected by Covid-19. The hospital is now in standby mode and will be used should cases in the London area rise again.

- **(4) Project: Mace use AI tech on Mayfair project to meet Covid-19 safety challenges, 1st October 2020**

- Work was already underway on Lodha's No 1 Grosvenor Square flagship project when the lockdown and then social distancing added to the normal construction challenges.

Client: Lodha; Main contractor: Mace

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

- **(5) Project: AI tracks work quality at Norway's Stavanger Hospital, 21st June 2020.**

Client: Stavanger University Hospital

BIM Tools: 100% International open standards, compatible with Revit, ArchiCAD, Solibri and others

- Oslo-based BIM developer Imerso has been given responsibility to monitor work progress in one of the biggest public construction projects in Scandinavia.

[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 [**August 2022**] of NBS CIS *Insights* focuses on – **Moving from linear to circular: incorporating circular economy thinking into the built environment**, and covers:

- What is a circular economy?
- Moving from linear to circular thinking, and
- Issues, challenges, and where do you fit in?.

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Property and Construction Statistics

Latest Property and Construction Statistics from RICS:

- Input from RICS Professionals ensure RICS surveys are leading indicators in the real estate industry.

Latest: Market Surveys - RICS [**August 2022**]

UK Economy and Property Market Update, August 2022

- Further deterioration in macro outlook clouds prospects for real estate.

Summary: Interest rates are now being hiked aggressively with more to come to combat accelerating inflation. A likely resulting recession could see the economy shrink by more than two per cent according to the Bank of England. A shift in sentiment is beginning to filter into real estate markets although pricing generally remains resilient for now despite the uplift in borrowing costs. Meanwhile, in the construction sector, the immediate challenge remains the availability and cost of both building materials and labour rather than a drop in demand. That said, growth in workloads could be slowing towards the back end of the year if projections for economy prove accurate.

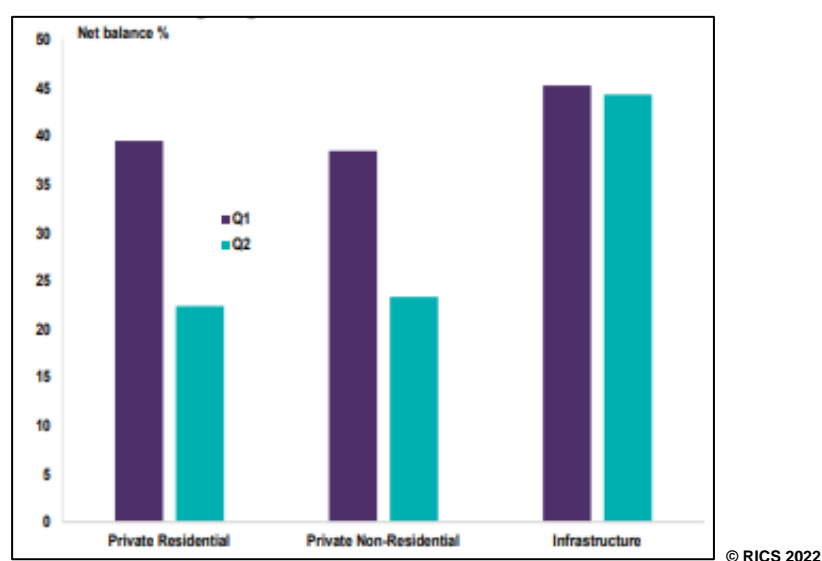
Construction Sector – The most recent official data for the sector (May) shows output some 5% up over the past twelve months and around 3.5% higher than in January 2020 (pre pandemic level). Inevitably, there is considerable volatility on a month-by-month basis particularly at a sector level. Nevertheless, when looked at over the last two and a half years (see publication date), the key drivers of the growth in output have been private housing (+20%), industrial (+18%), and infrastructure (+13.5%).

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By the way of contrast, commercial output has fallen (-21%) over the same period.

In terms of forward-looking indicators, the Q2 RICS Construction Monitor suggests that workloads will continue to grow over the next twelve months albeit at a somewhat lesser pace than currently (chart 10) in response to the more downbeat economic climate. Within this, infrastructure is viewed as likely to see the fastest momentum on the back of a number of significant projects that are currently under way (HS2, Thames Tideway Tunnel and Hinkley Point C).

Chart 10: The RICS Q2 Monitor suggests infrastructure workloads will see the strongest growth over the next 12 months



Source: RICS Economics Research: *RICS UK Economy and Property Market Update* (August 2022), London: RICS, p5 - Chart 10.

[Read the full piece of research 'RICS UK Economy and Property Market Update, August 2022'](#)

Also: [UK Economy and Property Market Chart Book, Q4 2020](#)

- Agreed sales rise over the month with expectations modestly positive regarding the near-term outlook

UK Residential Market Survey: [July 2022](#)

- New buyer demands edges down again but limited supply continues to underpin market pricing.

- New buyer enquiries continue to decline at a steady pace,
- New instructions remain stagnant and stock levels are still close to all-time lows, and
- Respondents across all parts of the UK report rising prices even if the pace of growth appears more moderate than earlier in the year.

The July 2022 *RICS UK Residential Survey* results are indicative of a continued easing in sales market activity, with metrics on demand and sales remaining in modestly negative territory over

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the month. Higher interest rates and a weakening macroeconomic landscape are widely cited by contributors to be causing this softening in momentum, although it's important to note that the survey sample was largely gathered prior to the Bank of England's latest 50 basis point rate hike. For the time being at least, underpinned by low levels of supply available for purchase, prices continue to rise across all parts of the UK.

Looking at new buyer enquiries, the headline net balance came in at -25% in July, broadly in-line with a reading of -27% posted last month (see publication date). As such, this marks the third successive report in which this indicator has been in negative territory, thereby representing the longest stretch of falling demand seen since the early stages of the pandemic. Moreover, when disaggregated, all UK regions/countries saw a dip in new buyer enquiries over the latest survey period.

Alongside this, agreed sales also edged down, with the latest net balance remaining modestly negative at -13% (compared to a reading of -14% previously). Looking ahead, near-term sales expectations slipped a little deeper into negative territory, posting a net balance reading of -20% relative to a figure of -11% beforehand. At the twelve-month time horizon, the sales expectations net balance fell to -36%, down from a reading of -21% last time and the most downbeat figure returned since March 2020.

With respect to new instructions, the latest net balance of -5% is pointing to a largely stagnant trend in the flow of fresh listings coming onto the sales market.

Moreover, average stock levels on estate agents books (36 per branch) remain close to an all-time low. Meanwhile, respondents have seen little change in the volume of market appraisals being undertaken in relation to the trend observed twelve months ago, suggesting a material pick-up in the supply backdrop is unlikely to emerge in the immediate future.

This lack of supply remains a crucial factor in underpinning continued growth in house prices.

[Read the latest RICS UK Residential Market Survey: July 2022 in full.](#)

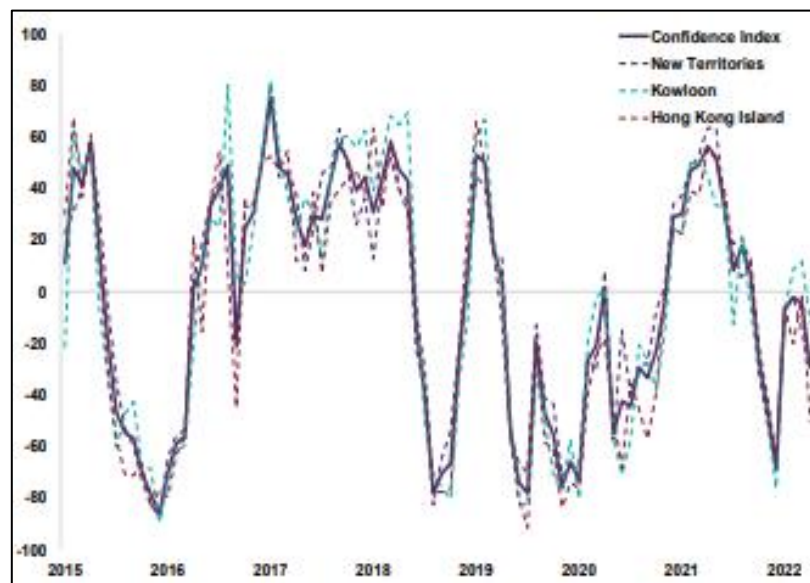
RICS - SPACIOUS 千居 Hong Kong Residential Monitor / Market Survey: [June 2022](#)

- Recovery paused for both sales and rental markets.

- Confidence Index retreats from rebound earlier this year,
- Activity across the sales and rental market loses momentum, and
- 12-month expectations show slide in optimism on the outlook.

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Chart 1: Confidence Index*:



© RICS 2022

Source: RICS Economics Research: *RICS Hong Kong Residential Monitor – June 2022*, 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.

The June 2022 *RICS-Spacious Hong Kong Residential Property Monitor* results reflect a turning point in market sentiment with rising interest rate continuing to test the market resilience. The headline confidence index (as shown in Chart 1) has dropped from -4 to -29, back to the level of last December (2021).

[Read the latest RICS HK Residential Monitor: June 2022 in full.](#)

- *RICS-Spacious HK Residential Monitor* is a monthly guide to the trends in HK's housing market. The report is available from the [RICS website](#) along with other surveys covering global housing, commercial and land markets, as well as construction industry.

Global Commercial Property Monitors, Q2 2022

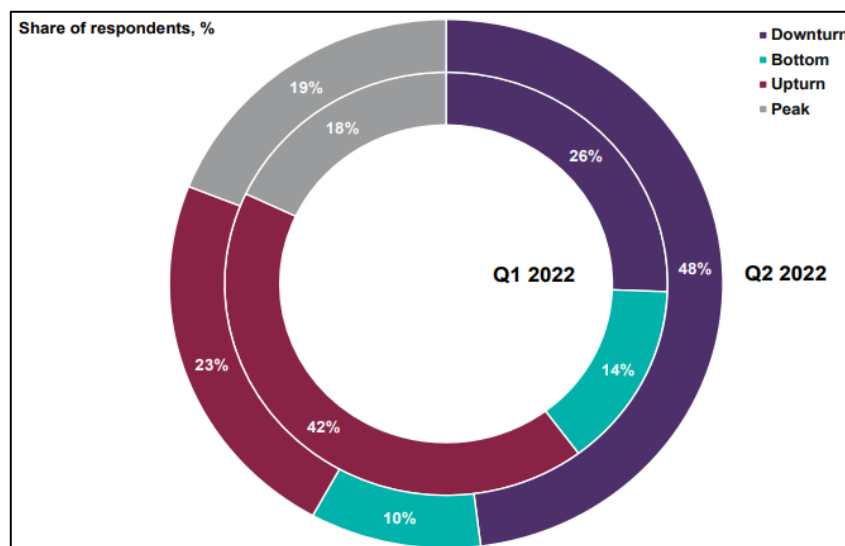
- Real estate sentiment loses some momentum amidst increasing macro challenges

- Increasing share of respondents view the real estate market to be in a downturn to some extent,
- Occupier demand indicator remains positive for now, albeit less so than previously,

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Datacentres, multifamily and prime industrials likely to show strongest returns over the next year.

Chart 6: Perceptions on Phase of the Cycle:



© RICS 2022

Source: RICS Economics Research: *RICS Global Commercial Property Monitors*, Q2 2022, London: RICS, p3 - Chart 6

The evidence of an improvement in sentiment amongst professionals working in the real estate sector over recent quarters appears to have stalled at a global level according to the results of the Q2 *RICS Commercial Property Monitor*. The headline Global Property Sentiment Index (CPSI) edged back marginally into negative territory in the latest survey (-6 as against +3 previously). Although this does not imply a major shift in tone, it is reflective on the ongoing tightening in monetary policy by key central banks (led by the US Federal Reserve) and the acceleration in inflation which does not, as yet, appear to have run its course.

More contributors focus on a downturn - Alongside the composite measure of sentiment which is drawn from a number of the individual series contained in the survey, we (RICS) also closely monitor (particularly at potential turning points) the perceptions of respondents regarding where the market is in the cycle. Chart 6 (as usual) shows the global feedback to this question for the most recent quarter and the preceding one. It suggests that the proportion of respondents who view their market to be in the early stage of a downturn has climbed from 11% to 30% while the share seeing their market in the middle of a downturn has risen from 15% to 18%. In all, around one-half of respondents now view real estate as being in a downturn phase (the highest share since Q4 2020) with a further 10% suggesting this market is at the bottom of the cycle.

[Read the latest RICS Global Commercial Property Monitor, Q2 2022 in full.](#)

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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: June 2022, new orders and Construction Output Price Indices: April to June 2022**

- Short-term measures of output by the construction industry.

What's covered in the latest bulletin?

- Monthly construction output decreased 1.4% in volume terms in June 2022, following an upwardly revised 1.8% increase in May 2022, with both months affected by the timing of the Jubilee bank holiday; this is the first decrease since October 2021 (0.9%) following seven consecutive months of growth.
- The decrease in monthly construction output in June 2022 came from falls in both new work (2.0%) and repair and maintenance (0.2%).
- At the sector level, the main contributors to the decrease in June 2022 were private new housing and private commercial new work, which decreased 6.1% and 4.5%, respectively.

Read the full statistical bulletin, 'Construction output in Great Britain: June 2022, new orders and Construction Output Price Indices: April to June 2022.'

Also: Construction statistics, Great Britain: 2020 - A wide range of statistics that are currently available on the construction industry including the value of output, new orders by sector, number of firms and total employment, insolvencies and construction output price indices.

Latest Statistics from HSE – Health and Safety Executive

Latest Key figures for Great Britain (2020/21)

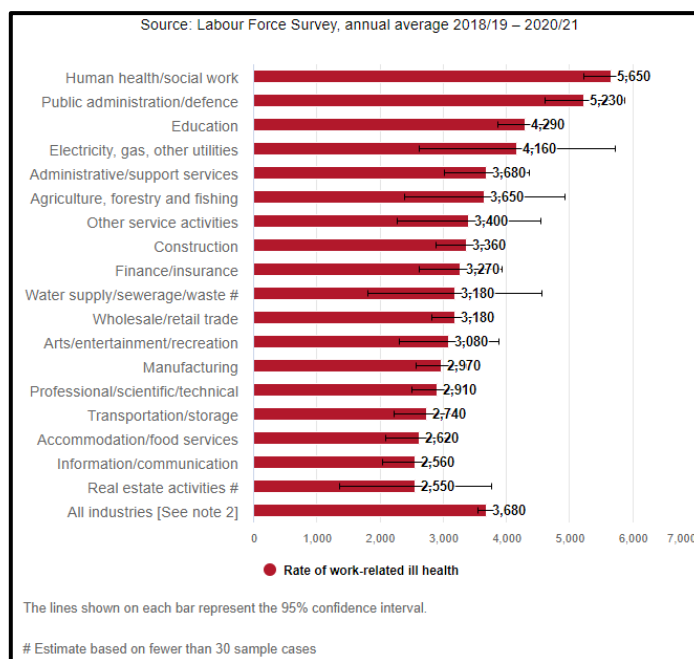
In 2020/21 an estimated 1.7 million workers were suffering from an illness they believed was caused or made worse by their work and 441,000 workers sustained a non-fatal injury at work. [Source: Self-reports from the Labour Force Survey]. However, the risk of injury and work-related ill health varies across industry, being more likely in some industries than others.

The chart overleaf shows how the overall rates of self-reported work-related ill health and workplace injury vary between industry groups. While the chart shows the overall picture for each industry group, this may be masking differences at more detailed levels (for example, illness type or more detailed industry sub-groups).

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From the Health and Safety Executive (HSE), '[Self-reported work-related ill health](#)', and covering '[Construction](#)':

[Rate of self-reported work-related health by industry for people working in the last 12 months \(per 100,000 workers\)](#)
[Note 1], [Note 3]



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Note 1: Industry groupings based on the section level of the 2007 Standard Industrial Classification (SIC) & **Note 3:** These estimates are based on results from a survey and are subject to sampling error.

Source: HSE (2022) 'Self-reported work-related ill health', Bootle: HSE [online]. Available at: www.gov.uk/statistics/industry [accessed 11 March 2022]

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

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Built Environment Research

Latest Policy and Research from:

[1\) Savills Market Trends – Four trends shaping global retail real estate](#)

- Market Trends: Savills.com, May 2022

From creative experiences to emerging markets, the author of this article examines four global trends that will shape the future of prime retail destination cities.

The pandemic undoubtedly created major challenges for prime retail spots in cities all over the world. Grappling with a series of domestic lockdowns and international travel bans, many

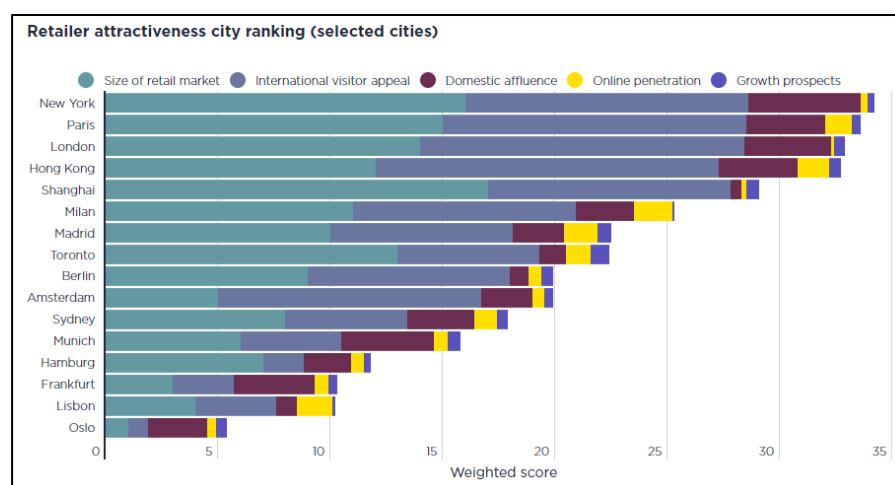
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destination cities struggled to sustain demand throughout 2020 and 2021. Footfall fell. Retailers took a close look at existing store networks. And rising vacancies led landlords to reconsider rental terms in some markets.

But with 2022 being the year that the world seems to be reopening (see publication date), as restrictions lift and tourists return, how might we see these prime retail destinations recover?

As our retailer attractiveness city ranking illustrates both the pace and shape of how destination cities recover is deeply nuanced. Those destination cities that benefit from a strong domestic market, such as New York and Shanghai, have already demonstrated far higher levels of resilience in the past 18 months, and look set for a far quicker bounce back.

Retailer attractiveness city ranking (selected cities)



Source: Savills (2022) *Market Trends: Four trends shaping global retail real estate* [online]. Available at: www.savills.com/impacts/market-trends/four-trends-shaping-global-retail-real-estate.html [accessed 15 July 2022]

Take New York, where the combination of the scale of its retail market and the affluence of its domestic consumers have pushed it to the top of the ranking, narrowly ahead of Paris and London.

In contrast, those cities dependent on a steady stream of inbound tourism have faced sharper declines, and are likely to face a longer road to recovery. In Hong Kong, for example, where tourism forms a key pillar of the city's economy, rents fell steeply from Q4 2019 to Q3 2021.

By sparking this mixed recovery among key destination cities, the pandemic has highlighted a number of emerging markets that present exciting opportunities for retailers in the years ahead, primarily across the Middle East and China.

Despite the migration to e-commerce in many markets, the resilience of many of these destination cities serves to illustrate a broader point: that physical retail remains a key tool for both

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brands and retailers when it comes to reconnecting with their consumers, enhancing exposure and ultimately driving retail sales.

Yes, Covid-19 created inevitable challenges. But rather than result in a material shift in prime retail areas, it served more to accelerate previous trends – the rationalisation of store footprints by mass-market fashion brands, the emergence of experiential brand spaces, and a refocusing on key streets and city centres – rather than diminish the critical role played by physical retail.

Here are the four global trends that Savills predict will shape the future outlook of key retail destination cities:

- Trend 1: Prime global cities will retain their status – Though all major global cities faced challenges as a result of the pandemic, the key fundamentals of a successful prime retail destination don't look set to change.

- Trend 2: Key emerging markets set to create expansion opportunities for retailers – For those retailers looking to expand their global footprints, the new normal also looks set to elevate some key emerging markets up the ranking,

- Trend 3: Retailers that sustained growth during the pandemic will fuel future demand – While those retail sectors that struggled during the pandemic will likely use the next year to recalibrate and reconsider store expansion strategies, those that sustained or even grew sales during the same period look set to accelerate store expansion, benefiting from a rebasing in rents in some markets, and

- Trend 4: From transactional to experiential stores – A trend prior to the pandemic – and one set to continue – is the evolution of physical retail from a transactional space into an experimental, brand-building one.

[Read the Market Trends – 'Four trends shaping global retail real estate', in full.](#)

Also: [Read the Market Trends – 'The total value of global real estate', in full.](#)

Read Savills Investment tips and trends by region -

- [Read more EMEA tips](#), ○ [Read more Asia-Pacific tips](#)
- [Read more North America tips](#)

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

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

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

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

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 2022: The essential guide to understanding poverty in the UK

Related topics – Housing; Work; Income and benefits

- This is the first issue of the JRF's new-style *UK Poverty* report, which looks comprehensively at trends in poverty across all its characteristics and impacts.

What is the picture of poverty at the start of 2022, coming up to two years after a global pandemic struck? To an extent the picture is unclear: we don't yet have official poverty data covering the pandemic period, and we know that the quality of the very surveys we rely on for this information were affected by the onset of the pandemic.

But many sources make it clear that while some groups have been well supported and face better prospects as we enter 2022 (see publication date), others face deep and persistent poverty. In a way this is much better than might be expected given the economic and social shock the country has been through.

We know poverty at any stage in life can lead to negative impacts and so it is critical to scrutinise the data thoroughly to work out who is worst affected, determine how trends are changing over time and see what future prospects are.

This report gives a clear statement, agreed by JRF's Grassroots Poverty Action Group (GPAC), that we need coordinated commitment, effort and action on the intersecting issues and challenges identified in this report. This can turn back the tide of poverty, and offer security for the many people experiencing hardship across the UK.

[Read the JSR article entitled, 'UK Poverty 2022: The essential guide to understanding poverty in the UK' in full](#)

Also gain access to the following free downloads that include:

Findings:

[JRF \(2022\) *UK Poverty 2022: The essential guide to understanding poverty in the UK* \(148.85 KB\),](#)

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and the Full Report:

[JRF \(2022\) UK Poverty 2022: The essential guide to understanding poverty in the UK \(3.71 MB\).](#)

Related Links:

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

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

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

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

[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.

Pulling at the Roots: A report by the Southwark Council Housing Resident's Working Part on understanding and mitigating the economic and financial impacts of Covid for residents of council housing in Southwark

Southwark Council Housing Residents' Working Party (2021)

The Smith Institute provided support for the Southwark Council Housing Residents' Working Part on understanding and mitigating the economic and financial impacts of Covid for residents of council housing in Southwark.

This Covid pandemic has not only been a public health crisis, but results in a major economic shock, with its impacts falling most heavily on those with the lowest and most unstable incomes. In turn, significant number of households have fallen behind with their bills, including their largest outgoing – housing costs.

Problem debt and rent arrears are not new to households in Southwark. However, the Council wanted to know about how the pandemic had changed things and how it had specifically impacted council housing residents (both tenants and homeowners/leaseholders).

To get a better understanding the Council helped establish a Council Housing Residents' Working Party (RWP), comprising tenants and homeowners in June 2021. The Working Party was tasked to examine the economic and financial impacts of the COVID pandemic, including paying special attention to who has been

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worst affected, what support the Borough's council housing residents have had, and what is needed to improve this morning forwards.

The RWP took oral and written evidence from Council officers, housing and debt experts, and representatives from the community and voluntary sector, considered government and Council held data on rent arrears and the impact of Covid; and conducted its own survey of over 1,800 tenants and leaseholders.

[Read the full piece of research, 'Pulling at the roots: A report by the Southwark Council Housing Residents' Working Party on understanding and mitigating the economic and financial impacts of Covid for residents of council housing in Southwark.'](#)

A Just Transition: Ensuring responsible investment for a just transition to net zero.

The Smith Institute (2021)

The Smith Institute supported the All-Party Parliamentary Group for Local Authority Pension Funds inquiry into 'Responsible investment for a just transition.'

This report is based on evidence sessions and written submissions to that inquiry from investors, industry, academics, community groups, trade unions, and other non-government organisations. The inquiry report seeks to inform politicians, policymakers, stakeholders and the public on the roles and responsibilities that investors can play, with the support of their members and government, in enabling a just transition to net zero carbon emissions.

[Read the full piece of research, 'A Just Transition: Ensuring responsible investment for a just transition to net zero.'](#)

The Living Wage Dividend: maximising the local economic benefits of paying a living wage.

Hunter P (2021)

The economic fall-out from Covid has been substantial. However, it has not been evenly felt. This is especially true for the labour market with low paid workers more likely to see their hours and pay fall and more likely to be made unemployed or furloughed. Indeed, the pandemic has placed the spotlight on low pay and in-work poverty. Recent polling for the TUC, for example, showed how low-income workers have borne the brunt of the pandemic.

This report seeks to take forward the work of the Foundation's 'Living Wage Places' initiative, focusing on how to maximise the benefits of the Living Wage in towns, cities and city-regions across the UK. Using evidence-based assumptions, the report examines and quantifies how much individuals gain, how that wage uplift is

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paid for and what the local economic impact is likely to be based on moving 25% of low paid workers up to the Living Wage.

[Read the full piece of research, 'The Living Wage Dividend: maximising the local economic benefits of paying a living wage.'](#)

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.

[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.

[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 on rent arrears for council tenants in London.

The Smith Institute (2020)

This 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.

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

[Back to top](#)**Consumer Rights in the Private Rented Sector**

July 2020

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
- **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](#)

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5) CABE – Chartered Institute of Building Engineers

Latest news: Fire Safety Act and Regulations

- **Changes to Building Regulations for fire safety in specific types of buildings**
 - On 1 June 2022, the Department for Levelling Up Housing and Communities (DLUHC) announced the outcome of its consultation on extending controls on use of combustible materials, and additional fire safety measures in higher risk buildings. These will come into force on 1 December 2022.
 - [Further information on the Changes to the Building Regulations](#) and
 - [More details can be found in the Amendment Document issued by DLUHC](#)
- **Coming into force of Schedule 1 of the Fire Safety Act relating to Fire Risk Assessments**
 - The Fire Safety Act 2021 will come into force in 2023, but ahead of this Section 1 – Premises to which the Regulatory Reform (Fire Safety) Order (FSO) applies and Section 3 – Risk-based guidance about the discharge of duties under the FSO of the Act commenced on 16 May 2022.
 - [Fire Safety Act Commencement Prioritisation Advice](#)
 - [Information on commencement of Section 1 and 3 of the Fire Safety Act](#)
 - [Fire Risk Assessment Prioritisation Tool](#)

Key publications from CABE

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

Also: [Access *Safer people, safer homes: Building Safety Management*](#)

[Access the Chartered Association of Building Engineers for further information.](#) and [Access *Building Engineer* website](#)

6) RICS – Royal Institution of Chartered Surveyors

- RICS recognise the huge importance of property, land, construction and the built environment. Through their market surveys and research, they aim to advance the thinking of the profession and raise the profile of the industry.

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

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As of **August 2022**, the [latest news & insights](#) include:

- **[RICS Fire Safety Hub](#)** – read the latest guidance and development from RICS in the area of fire safety,
- **[The future of BIM](#)** – An overview of what BIM is and how it is evolving,
- **Richard RICS Review – have your say on the new Professional Groups Panels**, and
- **Update on the implementation of the Richard RICS Review Recommendations**,
- **Business Rates: Change is coming** – Against a backdrop of a volatile economic environment, upcoming changes to business rates in England and Wales will bring them firmly into line with other businesses taxes.
- **RICS calls for industry and government to futureproof UK construction** – access via the above link an article that sets out an overview of ongoing RICS work streams, as well as detailing RICS calls to action for governments across the UK.

7) CIOB – Chartered Institute of Building

The quality of the built environment affects every member of society. As a professional body that represents the leaders and managers who work at every stage of the lifecycle of a construction project, The 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 **August 2022**, 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 – January 2022](#)** (4th Feb 2022)
- **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, and 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*
- **The Wider Built Environment** – *Overcoming the Barriers to Housebuilding in Ireland* (Feb '22); and *Understanding the Value of Professionals and Professional Bodies*.

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

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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 **August 2022**, 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 **August 2022**, the latest House of Commons Library, **[Research publications](#)** incl.

1. The crisis in Ukraine,
2. Financial Indicators: Key Economic Indicators,
3. Two new UK Supreme Court justices, and
4. Northern Powerhouse Rail.

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

As of **August 2022** the latest **[House of Commons Research](#)**:

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

1. A levels, Scottish Highers, and university admissions 2022,
2. The Privy Council: history, functions and membership,
3. Coronavirus: GCSEs, A Levels and equivalents in 2022,
4. Careers guidance in schools, colleges and universities (England), and
5. Higher Education (Freedom of Speech) Bill: Progress of the Bill.

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

1. Leasehold and commonhold reform
2. New-build housing: construction defects – issues and solutions (England)
3. Housing Market: Key Economic Indicators,
4. Research on the increasing cost of living and inflation,
5. Social rented housing (England): past trends and prospects,
6. Rent setting: social housing (England),
7. The future of coastal communities,
8. Help with paying for historical fire safety work: high-rise blocks (England)
9. Freeholders' estate and service charges,
10. Can private landlords refuse to let to Housing Benefit claimants?

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

1. Research on the increasing cost of living and inflation,
2. Rising cost of living in the UK,
3. Ukraine crisis, and The effect of the war in Ukraine on UK farming and food protection,
4. Brexit and the UK's Overseas Territories,
5. Air quality: policies, proposals and concerns,
6. British Energy Security Strategy, and
7. Q&A: Energy efficiency in old houses.

[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, Dec. 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 construction 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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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* (**August 2022**), 'Can the 15-minute city conquer America? – The idea of living a 15-minute walk or bike ride of everything you need for daily life is yet to be fully embraced in the US, where the car is king. But that could be about to change ...

Subject Terms/Keywords: Cities and placemaking; Infrastructure; Infrastructure and services; Planning and Development; Project management; and Sustainability.

Latest articles within *Modus*:

- The navigation app making construction sites safe –
Pinpointing any location on the planet is made simply by What3Words, but is the system versatile enough to meet the needs of surveyors?

Subject Terms/Keywords: Building control; Geomatics; Land and resources; Running your business; and Technology.

- Is build to rent the best way to create more homes – During the pandemic, families living in apartments wanted outdoor space and single-family rental housing was the answer. Now that trend is continuing to grow, backed by big investors.

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Subject Terms/Keywords: Building surveying; Finance and lending; Housing; Property finance and investment; Residential; and Residential valuation.

- **Is co-housing a better way of living?** – The community-led approach to home design incorporates shared spaces for residents to meet, eat and share collective decision-making.

Subject Terms/Keywords: Building control; Housing; Projects and people; Residential; and Wellbeing.

- **Converting wartime structures into peacetime profits** – The practice of adaptive reuse gives abandoned buildings a new lease of life and can make them socially and financially beneficial once more.

Subject Terms/Keywords: Building conservation; Cities and placemaking; Commercial property; Dilapidations; Heritage and conservation; and Land and resources.

- **Sounding off: how quiet should an office be?** – Deaden the noise completely and it can feel oppressively silent. But a loud office can be very distracting. Is it possible to design a perfect office that pleases everyone?

Subject Terms/Keywords: Commercial property; Facilities management; Health and safety; Running your business; and Wellbeing.

- **Remember the Alamo: preserving America's past** – The historic site in Texas is “a very sick patient” and before any repairs are carried out, there must be testing, analysis and data collection.

Subject Terms/Keywords: Building conservation; Building pathology; Heritage and conservation; and Maintenance and repair.

- **Placing members at the heart of the institution** – RICS President Clement Lau discusses the progress being made on the findings of the Bichard Review and the industry's global economic outlook.

Subject Terms/Keywords: RICS standards and guidance; Running your business; and Sustainability.

- **Buildings that elevated cities: Miami's Atlantis** – The residential high-rise helped pull Miami out of the doldrums and, with the help of 1980s TV series Miami Vice, launched the city on the international stage.

Subject Terms/Keywords: Building control; Cities and placemaking; Heritage and conservation; Housing; and Residential.

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- **Is commercial real estate at the start of the downturn** – The latest RICS Global Property Monitor suggests investors in commercial property are showing signs of caution.

Subject Terms/Keywords: Commercial property; Commercial valuation; Economics; Finance and lending; and Property finance and investment.

- **Are we entering a new age of urban farming** – From subterranean salad to floating dairy farms, unused spaces in cities are being repurposed to feed the population and supplement traditional rural farming.

Subject Terms/Keywords: Environmental surveying; Land and resources; Materials and resources; Rural; Rural economy; and Sustainability.

- **The cities creating new jobs to fight climate change** – How does a chief heat officer keep Miami cool and how do you incentivise building managers to make low carbon choices?

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 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 2022 - Issue 474** focusing on – £44.2 million Investment to Expand Woodlands; UK-wide Levelling Up Parks Fund; Recover Loan Extension Scheme: 2-year extension. 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

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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 2022** edition focus is on 'Stepping up in hard times' – Many expected that we would be busy 'building back better' at this time (see publication date), but instead we find ourselves in a punishing cost-of-living crisis. The IWFM Conference is also covered incl.- the importance of social value as an essential tool to boost local communities and improve lives.

Read more related articles on the [IWFM Insight webpage](#).

[Contractors World International](#),

[Construction Management](#) (formerly *Construction Manager*) is the magazine of the Chartered Institute of Building (CIOB) who also publish the **[Global Construction Review](#)** (GCR). Note: Latest articles from both journals are covered earlier within this issue of *Knowledge Foundations*.

Subscriptions available via the VLE e-Library include:

[Construction Information Service \(CIS\) Insight 2022](#). The Latest Edition [**August 2022**] focuses on – **Moving from linear to circular: incorporating circular economy thinking into the built environment**, and covers -

- **What is a circular economy?**
- **Moving from linear to circular thinking**, and
- **Issues, challenges, and where do you fit in.**

[Taylor and Francis Online](#) and include the following e-Journals:

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

[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.

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In-depth articles and case studies scheduled for the new volume, **Vol 11, Number 3 (2021-2022)** of **Corporate Real Estate Journal** incl.

Editorial.**Practice papers**

1. Turning disruption into opportunity: Leading corporate real estate in a post-COVID-19 world,
2. Trust, flexibility and technology: The keys to creating a more mature workplace,
3. How to turn uncertainty into a corporate real estate opportunity,
4. How companies can create a winning site selection process,
5. New journeys in change: A 'hybrid' primer – Part 2
6. The great office evolution: Reimagining the workplace,
7. Indian real estate in the post-COVID-19 era,
8. Work experience from home: hybrid work and the future of distributed work locations: A comparative empirical analysis between the US and Germany

Book review:

Elemental Change: Making stuff happen when nothing stands still by Neil User.

Other articles from *Corporate Real Estate Journal* (2021-22), Volume 11, Number 2:**Practice papers**

9. Why a hybrid office needs to understand and support employee commutes with transportation information
10. Data analytics and change management are transforming the future of the workplace: The opportunity to create value driven harmony between people, place and technology
11. The great workplace reset: Pivoting to the human experience in the war for talent
12. Information strategy in view of enterprise real estate futures: The evolving role of information systems in corporate real estate and facility management
13. Liberated work: Responding to the unshackling of 'work' from 'place'
14. Why and how formal relational contracts will improve your next corporate real estate outsourcing deal
15. India's transforming post-pandemic workplace: The emerging role of the hybrid work model

Other articles from *Corporate Real Estate Journal* (2021-22), Volume 11, Number 1:**Editorial though pieces**

16. The end of corporate real estate – revisited
17. The workplace post-COVID-19: Embrace the new normal or

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back to the future?

18. Diversity, inclusion and effective business transactions

Practice paper example:

19. The importance of the physical office post-COVID-19

20. New data sources in the age of hybrid work

Book Review – *Elemental Change: Making stuff happen when nothing stands still* by Neil Usher.

Vol 11 (2) (2021-22) of [Corporate Real Estate Journal](#)

Vol 11 (1) (2021-22) of [Corporate Real Estate Journal](#)

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 sixty 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.

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. It is published by the [International Council for Open and Distance Education – ICDE](#).



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This latest *Open Praxis* special issue **Vol 13(4)** compiles six selected papers derived from contributions presented at the 2021 ICDE Virtual global Conference Week that took place online in October, including two articles that received the Best Paper Awards in the two conference tracks: innovation and open education, respectively. The issue includes three more research papers and one innovative practice article from the conference. Finally, the issue includes one book review.

Keywords: open education, innovation, higher education, distance learning, OER, assessment, teacher education, international education.

Editorial:

1. Upskilling and Upscaling for Quality Open, Flexible and Distance Learning. Introduction to Selected Contributions from the 2021 ICDE Virtual Global Conference week

Research articles include:

1. 'Innovative Application & Enrolment Processes for More Informed Students: Reflections on the Benefits of this innovative Process through the Analytical Lens of Behavioural Science',
2. 'How to Promote the Use of Open Educational Resources (OER) in Higher Education. A Parley with OER Experienced Teachers,'
3. 'Towards Digital Thinking and Practices: Experiences of Sri Lankan Teachers and Students',
4. 'Developing Student Behaviours that Support Academic Integrity in Distance Learning',
5. 'A Formative Assessment Design Suitable for Online Learning Environments and its Impact on Students' Learning',

Innovative practice articles:

1. 'Integrating Metaliteracy into the Design of a Collaborative Online International Learning (COIL) Course in Digital Storytelling',

Book review(s):

1. 'Book Review of *Reimagining Digital Learning for Sustainable Development*'.

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,'

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- '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 2022 Vol 26(2)**. This second issue in OLC's 26th volume contains a collection of articles groups into four sections. The first group of papers relate to faculty and professional development, followed by a group of empirical studies on a range of issues. This issue also features two qualitative studies, a book review and a review of literature. These new studies provide guidance for researchers and practitioners working to better understand how students and faculty learn, teach and assess in online environments.

Faculty, Professional Development, and Online Teaching

1. Improving Retention Factors and Student Success Online Utilising the Community of Inquiry Framework's Instructor Presence Model (Rosser-Majors, M. L. et al.), and
2. Online Presentations with PowerPoint Present Live real-Time Automated Captions and Subtitles: Perceptions of Faculty and Administrators (Orellana, A. et al.)

Empirical Studies

Some of the articles include:

3. The Impact of Attitudes, Beliefs, and Cognitive Reflection on the Development of Critical Thinking Skills in Online Students (Simonovic, B., Vione, K. et al.),
4. Facilitating Cognitive Presence Online Perception and Design (McCarrol, J., and Hartwick, P.)

Qualitative Perspectives

5. Understanding the Lived Experience of Online Learners: Towards a Framework for Phenomenological Research on Distance Education (Becker, J., and Schad, M.,)

6. A Case Study Approach to Exploring Resilient Pedagogy During Times of Crisis (Clum, K., et al.)

Book Review

- 'Book Review: Leading the eLearning Transformation of Higher Education: Leadership Strategies for the New Generation, 2nd ed. Gary E. Miller and Kathleen S. Ives (eds).

Review of Literature

- 'Community of Inquiry Framework: Research Trends Between 2000-2020' (Olpak, Y. Z.)

[ISSN: 2472 – 5730]

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

[Henry Stewart Publications](#), Management e-Journal collection incl. *Journal of Education Advancement & Marketing*.

[The Open Education Research Hub](#) (OER Hub), and

[The Directory of Open Access Journals](#) (DOAJ)

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e-Book Review

Managing Diversity and Inclusion in the Real Estate Sector

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

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

Managing diversity and inclusion in the real estate sector is the first to place D&I at the centre of successful real estate and construction organisations. It provides guidance to, and most importantly, actions for professionals in the sector who want to make D&I an inherent part of the culture of their organisation. This book has been written to bring the sector up to speed with what D&I is all about and how a D&I strategy can be implemented to secure future success.

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

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Real Estate: The Basics

Forsyth, J. and Wilcox, J. (2022) *Real Estate: The Basics*, Oxon: Routledge. ISBN-13: 9780367725433

Real Estate: The Basics provides an easy-to-read introduction to the core concepts of the industry to students new to the subject or professionals changing direction within the sector. Note: This book would not have been written if it were not for some students on UCEM's 'Property Transactions' module –some of them are anonymously quoted in the Introduction.

The book encapsulates the key 'need to know' aspects of Real Estate including the 'language' of real estate; its value and contribution to countries' GDP; its primary purpose, whether as an asset or as a resource; valuation concepts; asset classes; basic concepts of land law, and of landlord and tenant law; the increased role and importance of sustainability and technology; and an overview of the wide range of professionals involved in the industry.

Note: Introductory offer 25% off *Real Estate The Basics* for a limited period. Go to [Routledge.com](https://www.routledge.com) and use the code **REB25**.

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 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 a further resources section.

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. [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](#).

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 \(DOAB\)](#)

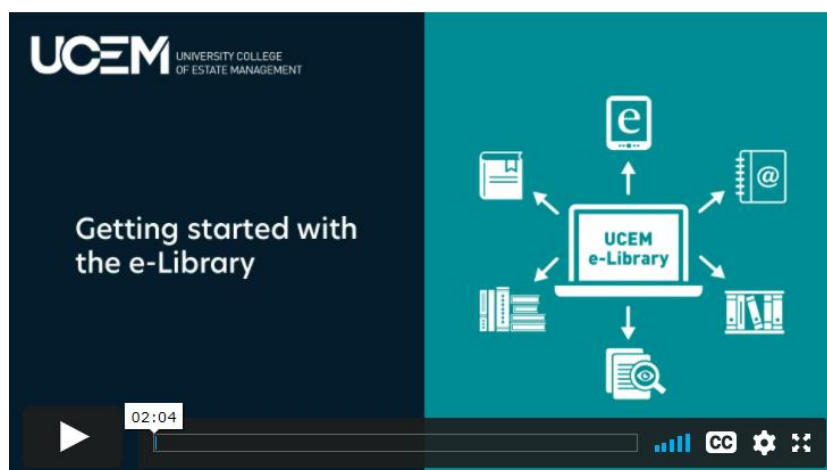
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UCEM e-Library Portrait

The aim of the e-Library

The aim of the e-Library is to:

- disseminate information, share good practices, 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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Source: UCEM (2022) *Getting started with the e-Library* [video], YouTube. Available at: www.youtube.com/watch?v=iEg8DFUFIfY&t=5s [accessed 15 July 2022].

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.

What resources are available in the UCEM e-Library?

The e-Library is made up of eleven 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.

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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, vLex | Justis, Westlaw EDGE UK, EBSCO Business Source Premier, Emerald Insight - access to around 2600 e-Book titles and their entire 'Property Management and the Built Environment' collection of journals, and

Industry-specific sources that include- IHS's Construction Information Service, *Estates Gazette* (EG) digital journal and EG Radius, *Property Week*, 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. Access the [2022 e-Library interactive brochure](#) for further information.

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Emerald Insight – the online platform for Emerald Publishing. Emerald champions new ideas in advancing the research and practice of business and management, and manages a portfolio of nearly three hundred journals, including a 'Property Management and the Built Environment' collection that UCEM subscribes to.



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

[August 2022] - Here are some Open Access Journal articles available via Emerald, all around the theme of '**Digital literacy and the education sector**'.

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

1. Nikou, S., De Reuver, M., and Mahboob Kanafir, M., (2022), 'Workplace literacy skills – how information and digital literacy affect adoption of digital technology', ***Journal of Documentation***, Vol. 78, No. 7, pp.371-391. Emerald Publishing Ltd.
2. Saib, M. O., [et al.] (2022), 'Digital pedagogies for librarians in higher education: a systematic review of the literature', ***Information Discovery and Delivery***, Vol. ahead-of-print, No. ahead-of-print. Emerald Publishing Ltd.
3. Rizvi, U. S., and Nabi, A. (2021), 'Transformation of learning from real to virtual: an exploratory descriptive analysis of issues and challenges', ***Journal of Research in Innovative Teaching and Learning***, Vol. 14, No. 1, pp. 5-17. Emerald Publishing Ltd.



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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 and read the UCEM Careers interactive brochure](#)

[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.

[Back to top](#)**This month [[August 2022](#)] the Hot Top Highlight – What About Those Vacant Commercial Units?**

In this latest blog article, Jonathan Roth MRICS writes about the implications of vacant commercial units and how you can consider these within your RICS APC competencies. In this article, focus is on vacancy from an APC perspective and its implications. Vacancy is relevant to many Commercial Real Estate competencies:

This week's blog will explore:

- Inspection
- Leasing & Letting and how to avoid vacancy
- Purchase & Sale and understanding the implications for a prospective purchaser
- Valuation and understanding how vacancy impacts value
- Sustainability in relation to the Minimum Energy Efficiency Standard (MEES) and EPCs, and
- Planning-related competencies.

What About Those Vacant Commercial Units?

This blog discusses how as a result of the internet and more recently Covid, if landlords want to attract demand to their spaces, then they must offer a unique proposition. Whether that be on pricing, quality, or even the simple proposition of collaboration and networking opportunities.

Those not able to offer this, are likely to have their spaces remain vacant. Covid has taught us that most things can be achieved from home and so if a unique proposition cannot be offered then people will do it from home.

So, what to do about those vacant spaces? Landlords must be encouraged to let the space in its existing use, convert it to much needed residential use, or even consider more radical approaches such as urban farms.

Further details and access to the Property Elite Hot Topic Highlight blog: What About Those Vacant Commercial Units?

Also: **Property Elite Hot Topic Highlight blog: A-Z of Investment Terms**, and **Access Property Elite's 'Building Better Property Professionals', Latest Blogs**

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

Lucy's Top Tips – 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

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packs, revision quizzes and e-mock interviews (available via the e-Library). 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.

Other related web-links

Gerrard N (2022) '[CM reader survey: 'We're creating people's dreams'](#)', *Construction Management*, 3 January - What CM readers like most about a career in construction management.

[GoConstruct.org](#) website highlights the many career opportunities available in construction and the built environment. The website helps to meet the future skills needs of the industry.

[TARGETjobs](#) – All TARGETjobs graduate career guides and directories are available for you to view online and download for future reference and include [Explore Property](#), [Explore Engineering](#), [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

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



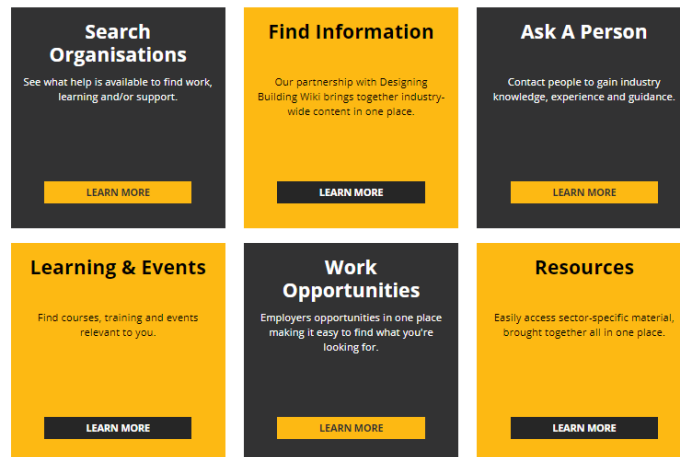
© UCEM 2021

The aim of 'Building People' was to create a technology platform and collaborative network, which 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.

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People Wiki:

What are you looking for?



© Building People 2021

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.

People Wiki (a free, open access knowledge sharing platform for diversity and inclusion, skills and careers, and social value.) 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.

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

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.

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.

Building Research Establishment (BRE) Sustainability

- Access 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](#)

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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 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.](#)

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.

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



Carbon Zero: the professional institutions' climate action plan

The signatories to this Action Plan agree that:

- the actions listed are necessary for dealing with the challenge of climate change;
- they will implement those actions appropriate to them as an institution/organisation; and
- they will support the other signatory institutions and organisations in delivering the remaining actions

© CIC 2021

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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.

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.](#)

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



[Image: courtesy Ed Hawkins]

(Climate stripes as shown in 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)** the then 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 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**
- **Government must clearly map out how it plans to tackle the carbon emissions'**

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

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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:

Libraries' contribution to SDGs

Agenda Vision: Universal literacy

Goal 3: Good health and wellbeing

Goal 4: Contribution to quality education

Goal 5: Culture

Goals 5, 9, 7: ICT skills and access

Goals 8 & 10: Decent work, economic growth, reducing inequality

Goal 16: Access to information

Note: Information plays a vital role in just about everything we do.



(UN.org 2022)

Source: Designing Buildings .co.uk Wiki (2021) '[Forgetting the big picture when considering sustainability](#)' [online], last edited 19 January. Note: "The Sustainable Development Goals icons and colour wheel are free to use" (UN.org 2021)

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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:

- 1) Remember that an encyclopaedia (which includes Wikipedia and any other Wiki) can be a good starting point for research and not an ending point.
- 2) An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, 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.

(Connors State College 2022)

Book Review:

Climate Adaptation: accounts of resilience, self-sufficiency and systems change

Thakore, Dr. R., Barinaga E [et al.] *Climate Adaptation: accounts of resilience, self-sufficiency and systems change* [print book], Arkbound Foundation, ISBN: 9781912092123

- Where is the world really heading, and what can we do about it?

This book takes an unflinching look at climate change, drawing upon the latest data to analyse what the next decades hold in store. With atmospheric CO₂ at unprecedented levels and insufficient action being taken to prevent a rise in temperatures above 2 degrees centigrade, we are not just looking at significant disruption but the possibility of societal collapse. For the first time ever, the magnitude of this challenge is faced head on, with avenues to truly address it presented. Case studies and models from sixteen authors around the world show ways that we can build adaptation and resilience, as well as what 'zero emissions' really mean. The book also provides a platform for those from a range of diverse backgrounds, whose unique experience and knowledge brings vital new perspectives.

Please note: Further information is also available later in *Knowledge Foundations* and can be found within the **UCEM e-Library Sustainability Hub**.

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Information Governance

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

Information Governance:



© 2020 iStockphoto LP. Royalty free

[image](#)

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

Data Protection

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

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

Further information, advice, and guidance on Data protection, GDPR and more can be found at the Information Commissioner's 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 [August 2022]

BBC News: Japanese man loses USB memory stick with entire city's personal details

- For many, after-work drinks are a common way of relaxing after a busy week. But one worker in Japan lost a USB stick following a night out with colleagues. **Keywords** include – [Data Breaches](#).

[Access the BBC News article, 'Japanese man loses USB stick with entire city's personal details,' in full.](#)

[Back to top](#)**ICO Latest News [August 2022] -**

14 July 2022 – **UK Information Commissioner sets out focus on empowering people through information** – The ICO has set out a commitment to safeguard the information rights of the most vulnerable people, including regulatory work around e.g., children's privacy, AI-driven discrimination, the use of algorithms.

23 May 2022 – **ICO fines facial recognition database company Clearview AI Inc more than £7.5m and orders UK data to be deleted.**

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

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

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? [August 2022]

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: In 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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The ICO have published:

March 2021 – Guidance on the [national security exemption](#) in Part 2 of the DPA18.

January 2021 - 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 - [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



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“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. This book 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 & (iv) copyright protection for works of traditional knowledge.

Source: 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 [August 2022]

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'](#)

[Latest 'BBC Copyright News' incl. Ed Sheeran Copyright case.](#)

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.

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[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 presented on- '[UCEM's e-Library: Our Story So Far](#)', at the [CITE Winter 2021 Forum](#), held in November 2021. *Source:* CLA (2021) [UCEM e-Library: Our story so far](#), a presentation given at the Winter 2021 CITE Forum [video], YouTube. Available at: www.youtube.com/watch?v=GmuENzHeGO0&feature=youtu.be [accessed 26 April 2022]. **Ref: From 58:05 until 1.28:41.**

- Copyright Licensing Agency (2019) '[CITE – 2020 Vision](#)', [CITE Magazine, Winter 2019, No. 3](#) [online].
- Copyright Licensing Agency (2019) '[A CITE to behold](#)', [CITE Magazine, Summer 2019, No. 2](#) [online].
- Copyright Licensing Agency (2018) [CITE Magazine - A biannual magazine for the CITE Community, Winter 2018, No. 1](#) [online].

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

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

CILIP's National Copyright Conference 2022

This national conference was held on 18th May and in association with Naomi Korn Associates, as well as great speakers and further experts in the field in attendance.

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The Annual CILIP Copyright Conference provided a unique and important chance to update knowledge about the crucial copyright and licensing related issues and developments. It also provides an invaluable forum for in-depth presentations by UK experts, informed debate and opportunities to ask questions.

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:

- Intellectual Property in AI and Information Management
- Government Copyright Policy following Brexit
- eBooks and copyright
- Copyright Licensing Agency update
- Controlled digital lending and the UK legislative framework
- Use of the Quotation Exception.

Sessions covered broad copyright impact for the profession incl.

- **Keynote: NFTs and its Implications for Copyright Law, Libraries and Information Organisations**

Non-fungible tokens (NFTs) captured the imagination of creators and information organisation in March 2020, when an artwork titled 'First Thousand Days' sold for \$69 million. It has since been seen as an effective means selling digital assets, particularly those which form part of a limited edition or collection.

It has the potential to transform libraries and information organisations and this talk questions how NFTs can be useful and beneficial for these organisations? Based on research conducted by *Professor **Dinusha Mendis***: Professor of Intellectual Property & Innovation Law, Bournemouth University, the paper takes a leap forward into the future in presenting the various opportunities NFTs offer for libraries and information organisations.

At the same time, NFTs are not without challenges. There have been many questions raised in relation to intellectual property (IP) and ownership. A string of recent IP cases has shone a light on just how challenging NFTs can be for the IP framework, which we have at present.

- **Exceptions to Copyright**

In this talk ***Margaret Haig***: Head of Copyright Operations, The Intellectual Property Office (IPO) raises the question – How can the existing copyright framework help or hinder cultural heritage organisations in their work? This presentation highlighted some of the copyright issues and update on the latest relevant developments.

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- **The question of #ebookSIS: is copyright reform the answer?**

The Covid-19 pandemic highlighted the tensions and dysfunction of the academic publishing industry as never before, issues that had been bubbling under the surface for years were brought to a head by the sudden closure of universities and libraries and resulting pivot to entirely digital learning provision. The unavailability of many ebooks, the high prices, restrictive licences and building practice of many publishers meant that librarians were hamstrung by the impossibility of providing all the required resources for our users digitally.

The #ebookSOS campaign was born out of this situation and has been campaigning on several fronts for an investigation into the practice of academic publishers, wider awareness for staff and students on the impact of these issues, Open Access alternatives, and for copyright reform that will prioritise educational and research uses over corporate profit margins, via controlled digital lending, the reduction of restrictive licences to control use, and moves to allow libraries to own content, rather than merely licence access. These issues are not unique to the UK or indeed unique to academic libraries.

The #ebookSOS campaign has partnered with LibraryFutures (USA) and Knowledge21 (Europe) to raise awareness and coordinate international pressure to force change and make libraries more equal partners in our relationship with publishers.

Caroline Ball: Academic Librarian, University of Derby

- **An Act for the Encouragement of Lending? UK Copyright Law and Access to Digitised Collections in Libraries**

The ongoing pandemic has brought into sharp focus the difficulties faced by libraries in trying to meet the needs of their users through online provision of library resources. The cost of commercially available ebooks is one difficulty and gaps in availability of electronic versions of vital resources is another. One possible solution to the latter issue is Controlled Digital Lending, this is lending digitised copies of items in library collections under controlled conditions.

The aim is to provide access to items already owned by libraries without compromising the right to control use and income for rights holders. Lending of copyright works is a restricted act under UK copyright law. While copyright law provides for library lending, the legal bases for controlled digital lending are uncertain and current licensing schemes do not fully meet CDL needs. **Dr Adrienne Muir:** Senior Consultant, Naomi Korn Associates explored these issues and possible solutions further.

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- **The quotation exception in education and scholarly contexts**

In this presentation, **Professor Tanya Aplin**: Professor of Intellectual Property Law, King's College London, will consider the ways in which the quotation exception in s.30(1ZA) of the CPDA 1988 can allow for various uses of copyright works for educational and scholarly purposes.

- **CLA Licensing and Product Innovation**

James Bennett: Head of Rights and Licensing, Copyright Licensing Agency provided an update on new developments in CLA licensing and technology solutions for the education, corporate and public sectors.

Other talks included:

- **License to View: Copyright & Films in the Age of Covid at a Canadian University – Amy Lorenz**: Metadata and Copyright Librarian, Saint Mary's University – Halifax, Canada
- **The Trouble with TDM – Matthew Lamber**: Head of Copyright, Policy & Assurances
- **Towards Better Sharing of Cultural Heritage – Creative Commons' Agenda for Copyright Reform – Brigitte Vézina**: Director of Policy, Open Culture and GLAM, Creative Commons

Lightning talks included

- **Copyright and Research Data - Dr Hina Zahid**: Senior Research Data Services Officer, University of Essex
- **Going Ape! NFTS and ownership issues in Web3 – Eilish McLaughlin**: Sales and Marketing Consultant, PRFS Europe
- **The Modernist Archives Publishing Project (MAPP) and Copyright – Helena Clarkson**: Project Archivist, University of Reading

Further information is available at: CILIP (2022) '[CILIP Copyright Conference 2022 programme](https://www.cilip.org.uk/events/cilip-copyright-conference-2022-programme)'. CILIP.org.uk, Events.

#CILIPCopy22 / #copyright

The Challenges of Remote Working at Present

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

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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 always handled in a way that is compliant with data protection law and our Data Protection and Privacy policies. While we must adapt to comply with the official guidance, we will adjust our working processes to allow us to deliver our services. These are time limited instructions that will be kept under review. At the end of the period then all data that is held temporarily on personal devices as a direct result of this exceptional times, will be deleted." (Tullo 2020)
2. **Set out what use of data**, contact lists, customer documents are being allowed.
3. As part of this exceptional response to homeworking **keep a full record of where staff are working from and what equipment they are using**.
4. **State that you have assessed the best way of ensuring homeworking efficiency** and are proposing that personal devices and mobile phones can be used. That you will review this [weekly seems sensible at present] in line with experience and how staff report it is working.
5. **Reissue and emphasise your usual security arrangements –** Virus and password protection, not leaving data visible to others, having a PIN code, or not sharing their device with others in their family or household.
6. **Take care to be aware where data is being stored**, even if temporary so that the security risk is managed and assessed.
7. For the **weekly reviews** – have your Senior Leadership Team note the number of staff using personal devices, any queries, or issues they are finding and demonstrate that you are monitoring the situation and are flexible in closing it down if any specific concerns arise.
8. Choose your collaboration tool of choice and consider recording online meetings and note actions especially where team members are geographically spread out and where broadband speeds and kit may vary in quality.
9. You might also consider having a standard introduction for homeworking staff to explain that they are homeworking and not in the office, so callers understand the position.
10. This is where a nominated Data Protection Officer (DPO) or Data Officer can support the senior team in the messaging to colleagues.

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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) within the **[UCEM Website Home > Supported Online Learning > e-Library](#)** current awareness services, incl. Information blog and ***Knowledge Foundations*** (for all).

#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 / #NASAPersevere

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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 30 August 2022]

American Society of Civil Engineers (ASCE) Civil Engineering database provides free access to over eighty thousand abstracts taken from ASCE publications since 1973. ASCE [online]. Further information is available at: www.asce.org [accessed 30 August 2022]

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 30 August 2022]

AJ Buildings Library (AJBL) – The AJ Buildings Library highlights thousands of exemplar projects, most from the last 20 years but including major projects back to 1900. Available at: www.ajbuildingslibrary.co.uk [accessed 30 August 2022] (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 30 August 2022]

BBC Search [online]. Further information available at: www.bbc.co.uk/search [accessed 30 August 2022]

BIDSTATS [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: <https://bidstats.uk/> [accessed 30 August 2022]

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.cdabb.cam.ac.uk/AboutDBB/FAQs [accessed 30 August 2022]. 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 30 August 2022]

BOMA International (Building Owners and Managers Association International) – a federation of 91 BOMA U.S. associations and seventeen 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 30 August 2022]

British and Irish Legal Information Institute (BAILLI) Case Law Search [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 30 August 2022]

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 30 August 2022]

Building Conservation.com [online] – Information resources for conservation, restoration, and repairs. Further information is available at: www.buildingconservation.com [accessed 30 August 2022]

Building Conservation.com Articles directory by subject [online]. Available at: www.buildingconservation.com/articles/articles.htm [accessed 30 August 2022]

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 30 August 2022]

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 30 August 2022]

Building People - a technology platform and collaborative network, which 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 30 August 2022]

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 30 August 2022]

BRE A-Z of BRE Services (from Accreditation to Zero Carbon) [online]. Further information is available at: www.bregroup.com/a-z [accessed 30 August 2022]

BRE Case Studies [online]. Further information is available at: www.bre.co.uk/podpage.jsp?id=1744 [accessed 30 August 2022]

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 30 August 2022]

Building talk [online]. Available at: www.buildingtalk.com [accessed 30 August 2022] *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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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.cdabb.cam.ac.uk/AboutDBB [accessed 30 August 2022]

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 30 August 2022]

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://cbuide.com/> [accessed 30 August 2022]

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 30 August 2022]

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 28 July 2022]. 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 30 August 2022]

CIBSE Journal [online]. Available at: www.cibsejournal.com [accessed 30 August 2022].

CIOB Library Incl. Library and Information Services [online]. Available at: www.ciob.org/library [accessed 30 August 2022]

CIOB BIM+ online newsletter [online]. Available at: www.bimplus.co.uk [accessed 30 August 2022]

CIOB's Construction Management journal (formerly *Construction Manager*) [online]. Available at: <https://constructionmanagement.co.uk/> [accessed 30 August 2022]

CIOB's Global Construction Review journal [online]. Available at: www.globalconstructionreview.com/ [accessed 30 August 2022]

CIOB's Policy and Public Affairs portal [online]. Available at: www.ciob.org/industry/policy-research [accessed 30 August 2022]

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 30 August 2022]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 30 August 2022] 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 30 August 2022]

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 30 August 2022]

Community-Led Housing (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 28 June 2022]. 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 30 August 2022]

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 30 August 2022]

COTAC Digital Bibliography [online]. Available at: http://cotac.global/digital_bib/ [accessed 30 August 2022]

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 30 August 2022]

Construction Enquirer is a news website in construction. Construction Enquirer [online]. Available at: www.constructionenquirer.com [accessed 30 August 2022]

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 30 August 2022].

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 30 August 2022]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: www.ciria.org/default.aspx [accessed 30 August 2022]

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 30 August 2022]

Construction Manager is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: www.constructionmanagemagazine.com/ [accessed 30 August 2022]

Construction News [online]. Available at: www.constructionnews.co.uk [accessed 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022].

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**.

Copyright Licensing Agency (CLA) [online]. 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. Available at: www.cla.co.uk [accessed 30 August 2022]

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 30 August 2022]

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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 30 August 2022] 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 30 August 2022] 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 30 August 2022] 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 30 August 2022]. 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 30 August 2022]

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 30 August 2022]

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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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

English Heritage cares for over four hundred 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 30 August 2022]. 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 30 August 2022] 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 30 August 2022].

ERES Digital Library [online] and available at: www.eres.org/index.php/activities/libraryeres [accessed 30 August 2022]

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G

Great Buildings [online]. Available at: www.greatbuildings.com [accessed 30 August 2022] 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 30 August 2022] 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 30 August 2022]

Global Construction Review – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at www.globalconstructionreview.com [accessed 30 August 2022]

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 30 August 2022]

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 30 August 2022]

The Guardian, Higher Education / Universities [online]. Further information is available at: www.guardian.co.uk/higher-education-network [accessed 30 August 2022]

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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 30 August 2022]

HSE, Health & Safety in the construction industry [online]. Further information is available at: www.hse.gov.uk/construction [accessed 30 August 2022]

HSE Publications [online]. Available at: www.hse.gov.uk/pubns/index.htm [accessed 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022].

Home Builders Federation (HBF) represents and serves its members in a range of ways that include 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 30 August 2022]

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 30 August 2022]

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Inclusive Design Hub for the Built Environment is a collection of the latest guidance and best practice on inclusive design in the built environment and a project of **The Design Council** [online]. Available at: www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment [accessed 30 August 2022]

INFABODE connects its community of users with industry information from the Real Estate sector on one customisable online platform. Infabode reduces the amount of time people spend trying to access key information from the Real Estate industry. **INFABODE** [online]. Available at: www.infabode.com [accessed 30 August 2022]

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 30 August 2022]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 30 August 2022] 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 30 August 2022]

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 Ireland. IHBC [online]. Available at: www.ihbc.org.uk [accessed 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

IWFM Digital Magazine, facilitate - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: www.facilitatemagazine.com/ [accessed 30 August 2022]

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 30 August 2022]

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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 30 August 2022].

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 30 August 2022] 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 30 August 2022]

JSTOR Open Content - a digital library for scholars, researchers and students, JSTOR provides access to academic journal articles, books, and primary sources in seventy-five disciplines. Note: UCL Press publishes peer-reviewed scholarly monographs, edited collections, textbooks and journals. All of its books are available on: (a) **UCL Press**, and (b) **JSTOR** websites
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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 30 August 2022]

Leeds Beckett University's - Leeds Sustainability Institute [online]. Further Information is available at: www.leedsbeckett.ac.uk/leeds-sustainability-institute [accessed 30 August 2022]

Leeds Beckett University – The Library [online]. Available at: <http://libguides.leedsbeckett.ac.uk/home> [accessed 30 August 2022]

Lexology is a comprehensive source of international legal updates, analysis, and insights. Lexology publish more than 450 articles every day from over 1,100 law firms and service providers worldwide across fifty work areas in twenty-five languages. Lexology [online]. Available at: www.lexology.com [accessed 30 August 2022]

Local Government Association (LGA) is the national voice of local government. They work with councils to support, promote, and improve local government. LGA [online]. Available at: www.local.gov.uk [accessed 30 August 2022]

LGA Knowledge Hub - Knowledge Hub is the public sector's professional social network which helps people in local government connect and share online in a secure environment [online]. Available at: <https://khub.net> [accessed 30 August 2022]

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M

Multimedia Educational Resource for Learning and Online Teaching (MERLOT). The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) developed and provided free access to MERLOT [online]. Available at: www.merlot.org/merlot [accessed 30 August 2022]. MERLOT is a curated collection of free and open online teaching, learning, and faculty development services contributed and used by an international education community.

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N

Naomi Korn Associates – Copyright Resources has developed free and openly licensed copyright, licensing and data protection help resources. Naomi Korn Associates [online]. Available at: <https://naomikorn.com> [accessed 30 August 2022]

National Building Information Modelling (BIM) Library, the construction industry's free-to-use resource of the NBS (trading name of RIBA Enterprises Ltd) standard BIM content [online]. Available at: www.thenbs.com/our-tools/nbs-national-bim-library [accessed 30 August 2022]

National Building Specification (NBS) is an integrated global platform for everyone involved in the design, supply, and construction of the built environment. NBS [online]. Available at: www.thenbs.com [accessed 30 August 2022]

NBS Knowledge [online] is available at: www.thenbs.com/knowledge [accessed 30 August 2022]

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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 30 August 2022]

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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 30 August 2022]

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 30 August 2022]

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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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 30 August 2022]

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 one hundred years. ERBE Construction Films [online]. Further information is available at: www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx [accessed 30 August 2022]

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 30 August 2022]

UWE, Library, Search for things: A-Z [online]. Available at: www1.uwe.ac.uk/library/searchforthingsa-z.aspx [accessed 30 August 2022]

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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**.

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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 30 August 2022]

Z

Zetoc: Informing Research - The monitoring and search service for global research publications, providing access to over 36,000 journals and more than fifty-nine 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 30 August 2022]

(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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