

## Knowledge Foundations

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### What's in this month's issue

- **Latest UCEM News**, incl. - UCEM and DiverseCity Surveyors launch mentoring scheme for ethnic minority students. Also, UCEM and LSA Announce Heads of Terms Agreement for Potential Strategic Merger.
- **Things you need to know this week** – Government commits £1.5bn to neighbourhood revival incl. support for libraries, parks, cultural venues, youth clubs and other amenities.
- **Latest Research** from Savills, RICS, CIOB, CBRE, JRF, The Smith Institute, and more.

Happy reading!

## Issue 4 – April 2025

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 practices, 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's current awareness service was to help keep students and staff informed of the education sector and industry-specific news, share current and best practices, 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.

**UCEM Website > Online Learning > e-Library**

**[Visit Supported Online Learning](#)**

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## UCEM News

### **LATEST** UCEM News

#### **UCEM and DiverseCity Surveyors launch mentoring scheme for ethnic students**

University College of Estate Management (UCEM) launched its fourth year of its Widening Participation mentoring scheme collaboration with DiverseCity Surveyors.

This scheme looks to supporting students from ethnic minority backgrounds. Normally mentoring takes place online, but this inaugural and in-person events was hosted at the Royal Institution of Chartered Surveyors (RICS) Head Office in London.

Access further information and the article, '[UCEM and DiverseCity Surveyors launch mentoring scheme for ethnic minority students](#)' in full.

**Also:**

#### **Other UCEM News**



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#### **New Appointment to UCEM Board of Trustees – March 2025**

UCEM is delighted to announce that Dr Liz Marr has been appointed to its Board as an Independent Trustee for an initial 3-year term of office from 1 March 2025.

Dr Liz Marr was Pro-Vice-Chancellor: Students at The Open University until April 2023. She has around thirty years of experience in teaching and learning in UK higher education with particular interest in social justice and social mobility. She is passionate about opening opportunity for all who wish to participate in learning, both formally and informally, personally mentoring people on their leadership journeys. She was a member of the Milton Keynes College Board for over ten years, serving as Vice Chair for most of those.

Access further information and the article, '[New Appointment to UCEM Board of Trustees – March 2025](#)' in full.

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## Other UCEM News

### **UCEM and LSA Announce Heads of Terms Agreement for Potential Strategic Merger**

The University College of Estate Management (UCEM) and the London School of Architecture (LSA) are pleased to announce exciting plans for the LSA to become a key part of UCEM, in support of our vision to become the centre of excellence for built environment education. Heads of Terms were jointly agreed and signed on 19 February 2025.

Capitalising on the strengths and aligned ambitions of both institutions, this strategic merger will advance and secure both institutions' core missions to widen access to high quality professional education that leads to a more sustainable and equitable built environment.

The name of the 'London School of Architecture' will be retained, recognising the School's well-established and distinctive identity and forward-thinking model for architectural education which is embedded within its Practice Network. The LSA will stay at its new studio at Beechwood Road in Dalston.

Access further information and the article, '[\*\*UCEM and LSA Announce Heads of Terms Agreement for Potential Strategic Merger\*\*](#)' in full.

### **UCEM appoints a new Chair of the Board of Trustees**

- UCEM is delighted to announce that its new Chair of the Board of Trustees will be Peter McCrea OBE with effect from 3 February 2025. Peter takes over the role from Amanda Clack who stands down after 4 years as Chair of the Board and 6 years in total as a Trustee.

Peter joined UCEM's Board of Trustees in May 2024. He is a Chartered Surveyor and salaried full-time Surveyor Member of the Upper Tribunal (Lands Chamber). He has over 20 years' experience in regulation, standards and governance and was selected for the role following tough competition in an independent recruitment process held through Autumn 2024.

Peter was previously Chair of the Board of LionHeart (the surveyors' benevolent charity) for six years. He was awarded an OBE in June 2024 for services to the profession of Chartered Surveyors and in 2024 also received the RICS Lifetime Achievement Award. His connections with UCEM began some 20 years ago when he was awarded a Diploma in Arbitration. He also became a UCEM Honorary Fellow in 2020.

Access further information and the article, '[\*\*UCEM appoints a new Chair of the Board of Trustees\*\*](#)' in full.

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## LATEST UCEM Research News

### UCEM awarded research funding by the British Council for EcoBrazil workshop

In November of 2024, UCEM was awarded £53,200 by the British Council under the International Science Partnerships Fund for an EcoBrazil workshop.

This hybrid workshop, titled: **‘Adapting Ecosystems: Bridging Biodiversity and Climate Resilience in Brazilian Landscapes through capacity building, knowledge exchange and simulation modelling; EcoBrazil’**, aim to gather 20 UK and 20 Brazilian participants from a diverse range of areas.

Access further information and the article, [‘UCEM awarded research funding by the British Council for EcoBrazil workshop’](#) in full.

Also:

- [UCEM research recognised at prestigious academic conferences](#)
- [UCEM hosts Research & Scholarship Engagement Day](#)
- [UCEM awarded research funding from the Royal Academy of Engineering](#)

## LATEST UCEM Sustainability News

### UCEM achieves fourth consecutive SOS-UK Responsible Futures accreditation

- UCEM has again been re-accredited with the [Students Organising for Sustainability UK \(SOS-UK\) Responsible Futures](#) certification, marking its fourth success.

Access further information and the article, [‘UCEM achieves fourth consecutive SOS-UK Responsible Futures accreditation’](#) in full.

Related Link:

- [UCEM takes part in fourth sustainability accreditation audit.](#)

### UCEM Student and Vice Chancellor contribute to major UK sustainability summit

- UCEM is committed to driving sustainability and inclusivity in the built environment forward. [UCEM’s Sustainability Strategy](#) underpins this commitment, providing a clear roadmap to embed sustainability into everything we do.

Access further information and the article, [‘UCEM takes part in fourth sustainability accreditation audit’](#) in full.

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## UCEM celebrates receiving ISO 14001 certification

The awarding of an ISO 14001 certification (an internationally recognised global standard) is just one part of our wider sustainability strategy and fits into the **How we operate** stated of the UCEM's ongoing [Globe initiative](#).

VISIT THE **GLOBE** WEBPAGE 

Access further information and the article, '[UCEM celebrates receiving ISO 14001 certification](#)' in full.

**Also:** Please visit the '[Sustainability Hub](#)' within *Knowledge Foundations* for further supporting information.

### Further UCEM articles:

[UCEM launches website to raise awareness of engineering in schools](#),

[UCEM INSPIRE event brings together sustainability leaders, and related articles](#) – UCEM's 'INSPIRE' series, "INSPIRE - so that we can together INfluence for Skills, Productivity, Industry, Research and Education"

- [Collaboration highlighted as key competency at fourth UCEM INSPIRE conference](#)

[UCEM joins campaign to drive better gender balance at board level](#), and

- [Access more information on UCEM's diversity and inclusion objectives](#).

### **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.

- [For more on UCEM's ambitions, take a look at the Institution's Vision and Strategy brochure](#)
- [Build a better future with UCEM videos](#)

Further information and the latest developments can also 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 for **Student enquiries** – Student Central (via our VLE); **Employer enquiries** – [businessdevelopment@ucem.ac.uk](mailto:businessdevelopment@ucem.ac.uk) and **other enquiries** on [reception@ucem.ac.uk](mailto:reception@ucem.ac.uk).

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## Other News

### **Things you need to know this week: Government commits £1.5bn to neighbourhood revival**

- New government support for neighbourhoods' libraries, parks, cultural venues, youth clubs and other amenities leads this news summary.

Hartlepool, Rhyl and Torquay are among 75 communities across the UK sharing in £1.5 billion of government funding to help safeguard, revive and rebuild their high streets, community hubs and public services. Under the government's Plan for Neighbourhoods initiative, neighbourhoods will each receive up to £20 million of funding and support over the next decade. In each area, the government will help set up a neighbourhood board, bringing together residents, local businesses and grassroots campaigners to draw up and implement their plans. Mayors will have a formal role in town boards. Deputy prime minister and housing secretary, Angela Rayner, said, "Our fully funded Plan for Neighbourhoods puts local people in the driving seat of their potential, having control of where the Whitehall cash goes".

### **Also, this month –**

- The government has pledged to introduce a new single regulator for construction to hold those responsible for building safety to account, as part of its response to the Grenfell Tower Inquiry's final report.

- A joint venture of housebuilder The Hill Group and housing association Peabody has sealed a £116 million deal with developer and investment manager Goodstone Living to deliver 360 build to rent homes at Dagenham Green in east London.

- The government is awarding £67 million to cultural projects across the UK that could help spur broader regeneration. Funding allocations include £15 million for the National Railway Museum in York, to support development of a new building as part of a wider mixed use regeneration plans for former railway lands.

- The Latimer development arm of housing association Clarion Housing Group has partnered with housebuilder Fairview New Homes in a joint venture to deliver the 188-home final phase of an estate regeneration in west London.

- Hull City Council is set to appoint ECF as its development partner for a planned 850-home regeneration project in the city. The council plans to enter into a 15-year development agreement with ECF for the masterplanning, development and construction of East Bank Urban Village, which is earmarked for a brownfield site to the east of the River Hull.

- Stoke on Trent City Council has named Genr8 Kajima



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Regeneration (GKRL) as preferred development partner for a major residential-led mixed use regeneration project.

- Social impact developer Capital&Centric has agreed a £37 million deal with Paragon Bank to finance the restoration of the historic Talbot Mill in Manchester, which is set to repurpose into 190 rental homes. The £55 million plans will see the historic mill revived and a 10-storey apartment block built alongside.

- Construction and housebuilding player Durkan Group has launched a dedicated regeneration business, Durkan Regen, to provide asset regeneration, planned maintenance, compliance services, fire remediation, retrofit and other services.

**[Read the article, Smit, J. \(2025\) 'Need to know: Government commits £1.5bn to neighbourhood revival', 4 March, 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 [PlacemakingResource](#), scroll to the base of the homepage, and access route within 'Subscription and Registration').

### **Case Study: Creating and nurturing a new city quarter**

- The development of Wellington Place in Leeds won't end with the completion of its buildings because for its developer and asset manager "placemaking is never truly finished", finds the author of this article.

Successful, sustainable regeneration of large-scale city sites takes time: that has been a lesson from many long-running projects in UK cities. The achievements at a Leeds city-centre site show that patience and the right approach pay off.

Over more than two decades, a low-grade retail part has been transformed into Wellington Place, a modern office location with more than a million square feet of high-spec office space in a series of buildings set around a new public square. In the square, a mid-nineteenth century wagon lifting tower that is all that remains from the site's railway station heritage has been restored and repurposed by the developer to create a museum that celebrates the site's history and local people's links to it.

The regeneration continues. MEPC, the developer and asset manager behind this new urban quarter, is not upgrading one of Wellington Place's earliest buildings but future proofing its space while bringing forward the scheme's final buildings.

And throughout the redevelopment process, the developer was worked to activate this new place and integrate it into the city. This is a key element of the developer's 'people-first' approach, which looks beyond the duration of construction programmes and the boundaries of the redevelopment site.

**Challenges** – The 21-acre site was part of Leeds Central Station

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until the 1960s, when it became a retail part housing traders in carpets, furniture and electrical goods. By the early 2000s the retail buildings were dated, footfall had fallen significantly and there were several vacant units.

1 and 2 Wellington Place, completed in 2000 and 2006, were forerunners of the broader redevelopment. The retail part's stores were eventually demolished in 2008 and the Wellington Place masterplan took shape and 10 Wellington Place because the first speculative office development in Leeds for over five years on its completion in 2013.

Inevitably given its scale, the development has had to weather economic ups and downs. "The journey from vision to delivery has faced a number of obstacles, including the economic downturn in 2008/9 which delayed development of new offices," says Paul Pavia, head of development at MEPC. Rather than mothball the site, however, the developer initiated meanwhile projects and green space until the financial climate improved, providing the local community with football pitches, allotments, beehives and green seating areas, some of which have been retained.

The developer also had to tackle the restoration of the grade 2 listed lifting tower. The former wagon lifting hoist had been relatively untouched since it was taken out of service in the 1960s, when MEPC took over the management of Wellington Place.

**Solution** – The development now features more than 10 buildings and three more have yet to be constructed to bring it to completion. The development was worked to deliver high standards of sustainability across the estate, with its most recent building at 11 and 12 Wellington Place being the first outside London and the further in the UK to achieve a design reviewed target rating of five stars or above in the NABERS environmental rating scheme.

An early building, 2 Wellington Place is being upgraded to serve as "a first-class example of successful, sustainable refurbishment", says Pavia. Two further buildings – 9 and its surrounding public realm and 14 – are in the planning pipeline. That will leave just one more building to be brought forward, number 15.

**Ongoing stewardship** – Year-round events programmes and partnerships with local schools, charities and social enterprises all help to create that sense of community. "We know that to create a real sense of place, it's essential that an events programme is as varied and inclusive as possible," says Pavia. The events programme includes singing groups, fitness classes, pub quizzes, wellbeing workshops, book clubs and more. "We regularly listen to feedback from our community, to ensure we adapt and refine the programme, ensuring it remains relevant, engaging and welcoming for all," he adds.

Wellington Place is an ambassador of the Child Friendly Leeds scheme and hosts and supports free family friendly activities like



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a recent Monopoly Trail, which brought over half a million visitors to the city. MEPC has gathered feedback on the value of its stewardship.

**Read further information and the Case Study in full. Source: Smith, J (2025) 'Creating and nurturing a new city quarter'.**

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

**Advice: New models for mansion block housing**

- Traditional mansion block housing is attracting renewed interest, but new fire regulations are presenting challenges to design and viability, finds the author of this article.

Mansion blocks were one of the favoured forms of development in Victorian and Edwardian times as London and other major cities sought to house a rapidly growing urban population. More recently as pressure to find homes for the UK's growing population has increased, new models of this form of housing are emerging, "which provide density but on a relatively human scale," says Luke Tozer, director of architect Pitman Tozer. New building regulations have, however, been introduced since the Grenfell fire which are posing challenges for the design and viability of medium-rise housing blocks.

"Mansion blocks are typically between six and 12 storeys, and can achieve high densities," says Andrew Beharrell, senior advisor at architect Pollard Thomas Edwards (PTE). "Mansion block developments are typically around 350 homes to the hectare, but high-rise schemes can deliver three or four times that.

"The advantages are that the form encourages neighbourliness and animates streets with their continuous frontage," says Beharrell.

Below are five key points to consider when designing and planning successful mansion block developments that comply with new building regulations:

**1. Create and active street frontage** – Mansion blocks help to create streets with their long frontages which run along them. However, the blocks have to be designed to create interest. "The ground floor homes can be designed to open out directly on to the street," suggests David Birkbeck, chief executive of housing research foundation Design for Homes.

**2. Create perimeter blocks** – Creating perimeter block of homes with homes on three or all the sides can create safe enclosed spaces for communal gardens and children's play, says Beharrell. On PTE's New Garden Quarter in Tower Hamlets in east London, the parents in the blocks with surround the communal garden can look out over the play areas," he says.

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**3. Locate mansion blocks at the centre of new settlements –** “Mansion blocks can be the focus for new settlements,” suggests Richard Lavington, director at architect Maccleanor Lavington. “Masterplans should identify sites for medium rise blocks on streets coming out of the town centre,” he says.

**4. Address the new building regulation requirement of two staircases –** “The new building regulation requirements since the Grenfell block fire in 2017 have posed new challenges for designers of mansion blocks,” says Design for Homes’ Birkbeck.

**5. Provide deck access –** “Deck access can help with ensuring two staircases,” says HTS’s Derbyshire. “The decks can link two staircases,” he points out. HTA has designed an eight-storey mansion block as part of the redevelopment of the Aylesbury Estate housing in Southwark in south east London that complies with the two-staircase regulation at corners of the perimeter development, he says.

**For further information and access to the article, Kochan, B. (2025), ‘Advice: New models for mansion block housing’, 25 February, in full.**

### **Analysis: Delivering Ox-Cam’s key infrastructure**

- The chancellor says the Oxford-Cambridge corridor could provide a big boost to the UK economy, but realising that ambition requires the delivery of major infrastructure alongside homes and workspace, the author of this article writes.

Two decades after the idea first sparked the interest of policymakers, the Ox-Cam Arc is making a comeback. The ambition to build on the scientific, research, business and academic strengths of an area spanning from Oxford to Cambridge in chancellor Rachel Reeves’ quest for economic growth.

In [a speech in January](#), Reeves said the Oxford-Cambridge Growth Corridor had the potential to be “Europe’s Silicon Valley”, boosting the UK economy by up to £78 billion by 2035. Like previous housing secretary Michael Gove, she spoke of growing its science and technology base, improving transport links and facilitating the housebuilding needed to enable businesses to better access and retain talent. She pointed to the appetite to deliver, with the 100 submissions made to the [government’s new towns initiative](#), which aims to drive the delivery of new 10,000-home settlements, including 18 flanking a new east-west rail route planned to connect Oxford and Cambridge. There was also news of measures to help unlock development, including establishing a Growth Commission for Oxford, mirroring the Cambridge Growth Company now chaired by former Homes England chair Peter Freeman and itself mooted to evolve into a development corporation.

Delivering the infrastructure needed to support growth has become a critical issue for the sub-region. “It is true that issues associated

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With water infrastructure have held up significant strategic developments at the Cambridge end of the Ox-Cam Arc for several years,” says Matt Clarke, director of planning consultancy Boyer. “With regards to water scarcity, as recently as last March (see publication date) the government acknowledged that over 9000 homes and 300,000 square metres of commercial space were unable to proceed through the planning system due to the Environment Agency’s intervention.”

**Addressing water scarcity**

Over the past year the majority, if not all, of this capacity has been released. That has followed a number of different interventions, notes Clarke, “including secretary of state’s appeal decisions, and positive multi-agency actions, such as the [Water Scarcity Group](#), announcements on funding of water supply infrastructure and a proposed water credits system”. This led to outline planning consent being issued last December for 4500 homes at Waterbeach Development Company, following withdrawal of the Environment Agency’s previous objection.

“It does appear that the biggest recent obstacle to progression of the allocations in the adopted local plans in the Cambridge area at least – the water scarcity issue and the associated stance of the Environment Agency – appears to have been overcome,” says Clarke. Beyond this, the government’s efforts, he says, appear to have “established a framework – through a varied package of measures – for future development”. Clarke sees the establishment of Cambridge Growth Company – as positive, “as long as its remit and powers are clearly defined” and “does not simply add a further tier, and certainly no additional bureaucracy to an already congested structure”.

But Richard Seamark, partner with property consultancy Carter Jonas in Cambridge, believes that the picture differs according to timescales. Over a 10–15-year timeframe, water supply options including proposals for a new reservoir, efficiency measures to reduce demand and steps to improve the resilience of water courses, are helping to enable major applications to progress in the city, he says. But he continues, “The bigger challenge will be delivering a sustainable water supply for the longer term – 2040 onwards, one that can match the significant development aspirations for Cambridgeshire and the chancellor’s growth plans for the water Oxford and Cambridge area”.

**[Speculation and unknowns, further information and read the article, Smit, J., ‘Analysis: Delivering Ox-Cam’s key infrastructure’ 26 February, 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 [PlacemakingResource](#), scroll to the base of the homepage, and access route within ‘Subscription and Registration’).

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## Education Latest [March 2024]

### [Access the latest Education news](#)

Bourne, N. (2025), ['Plans to cut uni jobs and courses lead to 'toxic culture'](#) – A “toxic” culture has been created by Cardiff University’s plan to cut 400 jobs and axe courses, according to a former education minister.

Leighton Andrews, a professor at Cardiff Business School, said there was a “climate of fear in the university about speaking out” with staff morale “through the floor” since it announced plans in January to address a £31m budget gap.

**Also:**

**For Education sector-related articles, see also:** UCEM student, Turner C (2022) ['Apprentice shares experience as she learns'](#), *Built Environment Journal*, London: RICS. #Apprentice

[School forced into daily Raac inspection](#), and UCEM article (2023) ['The concrete crisis: what's being done to address RAAC risks'](#), 13<sup>th</sup> September. Reading: UCEM.

## BBC Latest – Climate [March 2025]

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

#### [Data, waves and wind to be counted in the economy](#)

- Wind and waves are set to be included in calculations of the size of countries’ economies for the first time, as part of changes approved at the United Nations.

Assets like oilfields were already factored in under the rules – last update in 2008. This update aims to capture areas that have grown since then, such as the cost of using up natural resources and the value of data. The changes come into force in 2030, and could mean an increase in estimates of the size of the UK economy making promises to spend a fixed share of the economy on defence or aid more expensive.

Access [BBC News – Climate](#) [online].

**Also:** - [A really simple guide to climate change.](#) In addition, please visit the ['Sustainability Hub'](#) within **Knowledge Foundations** for further information and related articles.

## BBC Latest - Coronavirus – latest developments [March 2025]

### **Paving art marks Covid-19 Day of Reflections**

- The Covid-19 National Day of Reflection was marked in Coventry on Sunday (9<sup>th</sup> March) with a large floor mural at the city’s Cathedral Ruins. The artwork was produced by street artist Katie O, who said the lockdown period had shown how the arts could help bring people together.

- [Access the BBC Health News, incl. Latest Coronavirus pandemic news](#)

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### Related Link(s):

[Access the BBC News article entitled, 'AstraZeneca to withdraw Covid vaccine,' 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

**Case Study: UCEM** - 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 allowed 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.

**Note:** Further information and the **UCEM e-Library Portrait** is provided later within *Knowledge Foundations*.

[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.](#)

### Lessons Learned - Did 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 discusses if the coronavirus changed 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**

**HS**Talks

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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*) [March 2025]**

#### **Careers: 'I'm working with construction SMEs to boost their innovation'**

- Dr Graeme Larson FCIOB, associate dean (sustainability) at the University College of Estate Management, on opening up the current discourse around healthy communities.

**What are you working on at present?** I am working on a number of initiatives, with the key focus being strategic and operational sustainability. This relates to the development of new taught programmes at the **University College of Estate Management** (UCEM), along with research projects, publications and the organisation of the International Council for Research and Innovation in Building and Construction (CIB) Tri-Annual World Building Congress.

With my core team, I recently developed and launched an innovative new MSc programme, entitled Innovation in Sustainability Built Environments (iSBE). That programme is IMEA accredited and can also be undertaken through an apprenticeship route. It looks to really challenge the way professionals think about sustainability. We are now working on the development of other programmes to further meet the needs of the sector around sustainability.

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Further information, as well as access to read the article in full – Larsen G (2025) 'I'm working with construction SMEs to boost their innovation', *Construction Management* [online], 13 January 2025. Available at: <https://constructionmanagement.co.uk/ucem-graeme-larsen-construction-smes-innovation/> [accessed 20 January 2025]

**Also: RAAC Guidance**

- [Reinforced autoclaved aerated concrete \(RAAC\): key questions answered](#) *Construction Management*
- [Institution for Structural Engineers: RAAC investigation and assessment guidance page.](#)
- [Office of Government Property: RAAC safety briefing notice.](#)
- [The concrete crisis: what's being done to address RAAC risks](#), 13<sup>th</sup> September. Reading: UCEM.

**Latest News: Global Construction Review (GCR) [March 2025]****Skanska wins contracts in Sweden, Norway and California worth \$139m**

– Skanska has announced three contract wins: a \$47m office in Sweden, a \$37m school in Norway and a clinic in California worth \$55m. In Sweden, the company will build a nine-storey structure with 16,000 sq m of leasable space, along with a gym, conference rooms, lounge, restaurant, café and bicycle area. As well as the construction contract, Skanska has invested \$99m in the first phase of a larger office project, under way at Solna Station in northern Stockholm.

Further information, as well as access to read the article in full – Sweet, R., (2025) '[Skanska wins contracts in Sweden, Norway and California worth \\$139m](#)', *Global Construction Review* [online], 7<sup>th</sup> March. Available at: [www.globalconstructionreview.com/skanska-wins-contracts-in-sweden-norway-and-california-worth-139m/](http://www.globalconstructionreview.com/skanska-wins-contracts-in-sweden-norway-and-california-worth-139m/) [accessed 10 March 2025]

**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 **[March 2025]** surrounding sectors such as **Living (Sector) incl. Commercial, Corporate, Real estate, Dispute resolution & litigation**, covering:

- [A look ahead at building safety for the construction industry](#) (01/25) – Getting to grips with the major legislative changes brought about by the [Building Safety Act 2022 \(BSA 2022\)](#) has been a significant challenge for the construction industry, particularly against a backdrop of political and economic uncertainty.

Also: ▪ [UK real estate eyes potential market rebound in 2025](#) (12/24), and ▪ [Landlord and Tenant Act 1954 – a consultation](#) (11/24)

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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 duty holder 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](#)'[online]. Available at: [www.fenews.co.uk](http://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.

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

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

**Latest update [March 2025]** CIRIA is pleased to announce 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 and resources include:**

#### **Retrofitting ground gas protection measure (C795)**

#### **Grouted anchors and soil nails (C794)**

#### **CIRIA Resources (incl. Case Studies)**

**Note:** CIRIA Resources can be accessed via the [VLE e-Library > OpenAthens Library login & Construction Information Service](#).

## **Grenfell Tower Inquiry – Final report published**

- 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 [March 2025]**

**Statement from the Panel** – [The Inquiry statement as the final report is published. Watch](#) - Panel statement on the publication of the Grenfell Tower Inquiry Phase 2 report

**Phase 2 Report** – The Inquiry has published its report on Phase 2 of its investigations. **Phase 1 Report** – The Inquiry has published its report on Phase 1 of its investigations.

**Also:** Seventh anniversary statement – The Inquiry Panel made a statement for the 7<sup>th</sup> anniversary of the fire at Grenfell Tower.

- **December 2024 Newsletter** – The Inquiry has published an update on its [closure plans](#).

**Read further information from the ‘Grenfell Tower Inquiry’ website.**

[Back to top](#)**Related Links:**

By visiting the 'Built Environment Research' section of *Knowledge Foundations* and House of Commons Library, you will note under 'Housing and Planning' and within 'Social policy,' the top research briefings include - **The Cladding External Wall System (EWS)**.

**Also:****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](http://www.bbc.co.uk/news/uk-58584348) [accessed 3 February 2025]

**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.

**[Shoosmiths Insights](#)** [online] - **[Lessons from Grenfell: New fire safety responsibilities](#)**

Amendments to the Regulatory Reform (Fire Safety) Order 2005 will add to the existing responsibilities of Responsible Persons under the Order which were expanded earlier this year (2023) by The Fire Safety (England) Regulations 2021[1].



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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 came 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 2024](#)

The Royal Institute of British Architects (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 winner 2024: The Elizabeth Line.** [The Elizabeth Line](#) by Grimshaw, Maynard, Equation and AtkinsRéalis **Award** RIBA London Award 2024, RIBA London Building of the Year, RIBA National Award 2024, and RIBA Stirling Prize 2024.

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Founded in 1695, Modern College is a charity dedicated to providing older people in need with a home for life, including the provision of residential and nursing care. Further information (including a video of the project) is available via RIBA, [Architecture.com](#) [online].

### **Skills Agenda: Concerns for Skills Shortages in the 21<sup>st</sup> 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 21<sup>st</sup> Century.'](#)

**Related Link:** Sellers K (2024) '[Talent: where will tomorrow's skilled workers come from?](#)' [accessed at 18 September 2024]

### **Tomorrow's Engineers**



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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. It includes information and guidance on a range of topics curated from across the STEM community.

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

### **RICS insight report: [Women in surveying](#)**

- Women in surveying and the wider built environment sector face recurring challenges through their careers due to discrimination, bias (whether unconscious or intentional) and inequity in opportunities and systemic practices. This '23 [Women in Survey insight report](#) analyses existing RICS membership data and the results of their flagship 2022 Survey of women in the profession.

RICS's aim is to offer insights on why women are not progressing in their careers and remaining in the profession. This will enable individuals, teams and organisations to reflect and further examine their own behaviours, policies and practices, and more importantly, begin their journey in taking positive action to deliver change with lasting impact.

Also: [Access Women in construction: building a career in a challenging environment.](#) Twelve case studies of women working in the construction industry and their experiences.

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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 Property Monitors** – 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.
- **Market Surveys and Economic Analysis** – Used by governments, central banks, investors and other key stakeholders across the built environment, RICS market surveys provide a source of market intelligence.

**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: reports [[Last updated February 2025](#)]**

- The **[UK House Price Index](#)** is a National Statistic.

The **[Northern Ireland House Price Index](#)** is calculated and published quarterly.

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.

### **Contents include the following:**

- Northern Ireland sales volumes
- Data revisions
- Methodology change for new build property
- December 2024
- About the UK HPI
- Archived reports and data

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 19 February' in full.](#)**

### **Related Content:**

1. UK House Price Index: data downloads September 2022
2. UK House Price Index: reports 2022
3. UK House Price Index: data downloads October 2022
4. UK House Price Index for October 2022
5. UK House Price Index

### **Collection:**

[Land registration: Data](#)

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## Tackling mental health and wellbeing within the construction industry



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:

#### **Q&A with Harold Samuel Research Prize (HSRP) recipient, Dr Katharine van Someren**

Research is a fundamental aspect of university life. It is used to gain a further understanding for assignments and dissertations and by academics to explore topics that will broaden our understanding of society and the world around us. The HSRP is an annual opportunity for those interested in the building environment to submit a research proposal on a topic that could offer sector-changing insights.

What is the relationship between job and financial security and mental health in the construction workplace? UCEM spoke with HSRP recipient Dr Katharine van Someren, about her research on UK construction workplace poverty. You can access [UK construction workplace poverty: the impact of financial and job insecurity on mental health](#) on UCEM's publication page to learn more about Katharine's research.

Access the article '[Q&A Harold Samuel Research Prize \(HSRP\) recipient, Dr Katharine van Someren](#)' in full.

### **UCEM 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.

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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.

**There are five strategic aims supporting this vision which are:**

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

For more details, take a look at [UCEM's mental health strategy document](#). Access the article '[UCEM launches mental health strategy](#)' in full.

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

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.

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 Construction Manager article\(s\) entitled, 'Samaritans to work with roofers on mental health' in full,](#) and

[Banner artwork highlights construction suicides](#)

### **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.

## **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:

1. **Seeking to influence** – The NT seek to influence the planning system at local, regional, and national levels,
2. **Supporting spatial planning** – The NT support spatial planning which takes a holistic approach to its environment and its resources,
3. **Sensible management** – The NT promotes the wise management of the natural environment and built and cultural heritage,
4. **Protecting our environment** – The NT will seek to protect wild and remote landscapes from built development or urbanisation.
5. **Using property management plans** – In managing its land through management plans, the NT will support and help to achieve objectives,
6. **Objecting to proposals, where appropriate** – The NT object to land use or marine-based proposals that have a significant adverse impact on its properties and their settings and context, or in its wider interests.
7. **Using a sustainable construction approach** – When proposing development on their land to meet justified needs, the NT will use a sustainable construction approach. This will include the following:

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

### **The National Trusts' conservation process**

The NT 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.

#### **Read the National Trust Land use and planning.**

**Access the National Trust website and our cause** (including Nature and climate, History and heritage, and Communities).

### **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

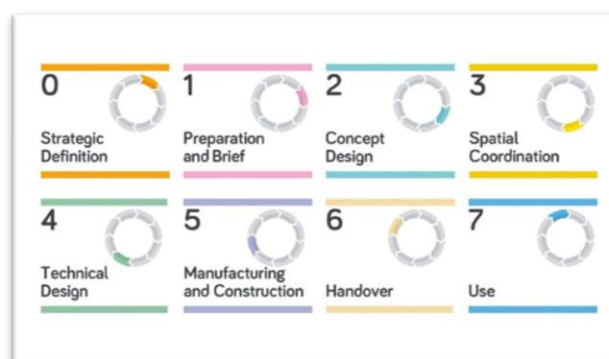
**4 – Technical design** – no change

**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](#)

**[March 2025] –**

- **Projects – Welcome home, planetarium, 5 December 2024**
  - Digital solutions were important not only in the construction of a new planetarium in Nottinghamshire, but also in its funding.
  - Mansfield and Sutton Astronomical Society (MSAS) had long-held ambitions to transform its site at [Sherwood Observatory](#) in Sutton-in-Ashfield into a science discovery centre and planetarium with teaching space, meeting rooms and a café. The site sits on a derelict Victorian subterranean reservoir.
  - As a charity, MSAS sought funding from local government grants, including the Towns Fund and Levelling Up Fund, as well as match funding from local organisations and businesses, donations and direct fundraising.
  - To support the fundraising initiative, project architect [Anotherkind](#) invited the public, stakeholders and investors to view the proposed designs of the planetarium within Archicad in 3D. Using VR headsets, users were able to walk around the

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planned building.

Anotherkind architect Dan Kilsarski-marlow explained: “The project was so complex, so being able to get people who aren’t familiar with the designs to explore the **Archicad** model and understand the complexity was great, especially with the project being so important for the region.”

### **Underground challenges**

One of the main challenges Anotherkind faced was the subterranean Victorian structure. The reservoir is a large, underground brick chamber approximately 7m high and 25m in diameter. From the outset in conservation projects and, using Archicad’s renovation filter, it was able to model the site using the 2D topographical information, and control how the proposed elements merged into the existing context with both the demolition and proposed filter options.

To produce the complex structure that formed part of the existing site model, a combination of meshes and morphs were sculpted to the required forms with the Solid Element Operations command.

“One of the most challenging components of the project is managing the environmental conditions of two completely contrasting spaces, which are designed and constructed to suit their period, but behave differently,” Kilarski-Marlow said. “With the help of the Archicad BIM model in collaboration with the consultant team, we were able to build complex geometries, navigate the interfaces between old and new and coordinate the structural and services information through clash detection.”

### **Other area(s) covered in this article include the following:**

**3D interrogation** – Main contractor on the project was GF Tomlinson. Its team used **BIMx** on a tablet PC to virtually walk around the design while on site. This eliminated the need to print the plans and meant they could conduct onsite meetings with the site manager.

#### **Also:**

- [Digital collaboration drives Altu and Elliott on Dublin project](#)
- [Maber user Archicad to aid collaboration on medical research facility, and](#)
- [Communicating and solving design changes with technology.](#)

Gain access to further information and full access to the project case study article by BIMplus Author (2024), entitled, [‘Welcome home, planetarium’](#), 5 December, **BIMPLUS** Projects.

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

- **Projects – Dublin university uses campus twin to test smart city tech**, 10 September 2024

- Dublin City University is using a digital twin of its campus to test smart city technology, bringing AI and a digital twin together.

Gain access to further information and full access to the project case study article by Gawde P (2024), entitled, '[Dublin university uses campus twin to test smart city tech](#)', BIMPLUS Projects.

- **Projects – Digital collaboration drives Altu and Elliott on Dublin project**, 10 September 2024

- ALTU Architects and Elliott Group worked together to deliver the Eglington Place residential scheme in Dublin, with Archicad and BIMx driving their digital collaboration.

Gain access to further information and full access to the project case study article by BIMplus Author (2024), entitled, '[Digital collaboration drives Altu and Elliott on Dublin project](#)', BIMPLUS Projects.

- **Projects – Sir Robert McAlpine's role in the world's smartest museum**, 31 May 2024.

- Can a heritage museum be smart too? That's the plan for the new Museum of London in London's historic Smithfield market, opening in 2026 under the name of London Museum.

Gain access to further information and full access to the project case study article by Smith, K., (2024), entitled, '[Sir Robert McAlpine's role in the world's smartest museum](#)', BIMPLUS Projects.

- **Projects – Airedale hospital tackles RAAC with GIS-based digital twin**, 25 March 2024.

- West Yorkshire-based Airedale General Hospital is saving time monitoring its issues with reinforced autoclaved aerated concrete (RAAC) thanks to a digital twin developed by BIS Consult.

- **Projects – The digital transformation of Auckland's water works**, 25 March 2024.

- The agency tasked with surveying 45,000 bridges in France in just 18 months turned to Esri's ArcGIS platform to facilitate its work.

Gain access to further information and full access to the project case study article by Farkadi, F. and Webster, S. (2024), entitled, '[The digital transformation of Auckland's water works](#)', BIMPLUS Projects.



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## **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](#), 2<sup>nd</sup> November 2020.

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

The 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](#), 28<sup>th</sup> 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](#), 1<sup>st</sup> 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](#), 21<sup>st</sup> 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 – 10<sup>th</sup> annual BIM report 2020 available**  
**NBS 10<sup>th</sup> National BIM Report 2020** - It illustrates how usage and perceptions of BIM have changed since 2011, progress made as an industry, and anticipated changes in the next decade.

### **Construction Information Service (CIS) Insights**

The latest edition [**March 2025**] of NBS CIS *Insights* focuses on – **Sustainable Futures UK Report 2024**, and covers -

- Insights from industry professionals' perspective, ▪ Sustainable outcomes and the barriers we face, and ▪ The future of sustainability policy and the role of specification and project information.

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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** [**March 2025**]

#### **UK Economy and Property Market Update, February 2025**

- Uncertain macro picture continues to impede real estate and construction recovery.

**Summary:** A weak macro environment has led to downgrades to GDP projections for 2025. Interest rates are seen as likely to fall further in response, but long-term borrowing costs will remain somewhat more elevated. This is not helping the mood in the commercial real estate market, notwithstanding the jump in activity at the back end of last year (2024). Meanwhile, the housing market faces a near term challenge with the expiry of the stamp duty breaks at the end of March. Construction workloads remain flat for now but are expected to pick up modestly through the year with infrastructure activity seen as continuing to have the strongest momentum.

**Construction Sector** – Official data points to a flat picture in construction activity with a monthly increase in output of 0.4% in November, following October's drop of 0.3%. The feedback from the Q4 2024 iteration of the RICS *UK Construction Monitor* echoes this sentiment with the latest workloads net balance reading coming in at -1%. Chart 10 shown overleaf displays a sectoral breakdown of activity within the industry based on feedback to the RICS survey. Infrastructure remains the most buoyant sector, albeit that sentiment is slightly less positive than in Q3 (+12% net balance vs +17%).

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Somewhat ominously, the responses from contributors are most cautious when it comes to private and public housing.

**Note:** Previous quarters have been covered extensively within *Knowledge Foundations*. Current and archived copies are available via section 6 of the VLE e-Library as well as the Research Repository.



Source: RICS Economics Research: *RICS UK Economy and Property Market Update* (February 2025), London: RICS, p5 - Chart 10.

**[Read the full piece of research 'RICS UK Economy and Property Market Update, February 2025](#)**

**Also:**

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

- Buyer demand broadly flat in January but sales volumes are still expected to rise gently over the months ahead.

**[UK Residential Market Survey: January 2025](#)**

- Buyer demand broadly flat in January but sales volumes are still expected to rise gently over the months ahead.

- Sales market activity appears to level-off,
- House prices continue to rise steadily at the national level,
- Further pick-up reported in new instructions to sell.

The January 2025 *RICS Residential Survey* results signal a broadly flat monthly picture for sales market activity, with measures of demand and sales both easing slightly to now sit in neutral territory. Nevertheless, despite the slight stalling in momentum of late, respondents continue to envisage a modest expansion in sales volumes as the year progresses.

During January, the new buyer enquiries indicator returned a net balance of zero at the headline level, which is now indicative of a broadly flat trend over the monthly. What's more, this series has

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continued to moderate gradually in each of the past five reports having hit a recent high of +16% back in August (suggesting demand growth has lost impetus).

With regards to the survey's tracker of agreed sales, the latest net balance reading of +3% is also consistent with a more or less static picture, having eased from a marginally stronger figure of +7% in the December 2024 results. Looking ahead, near-term sales expectations are still slightly positive, evidenced by a net balance of +10% of respondents anticipating an increase in volumes. Over the coming twelve months (see publication date), a net balance of +30% of contributors foresee an increase in sales activity, even if this is a little less optimistic than the reading of +37% last time.

Turning to new instructions, a net balance of +25% of respondents reported an increase in the volume of new listings coming onto the market in January. Furthermore, this measure has now been in positive territory for nine consecutive months. Accompanying this, there has been a noticeable recovery in average inventory levels across estate agency branches (from 41 to 45 since July last year), albeit current stock numbers are still relatively low when viewed in a longer-term context. Alongside this, a net balance of +24% of contributors noted that the number of market appraisals undertaken over the month was higher than seen over the comparable period of 2024.

**[Read the latest RICS UK Residential Market Survey: January 2025 in full.](#)**

**RICS - SPACIOUS 千居 Hong Kong Residential Monitor / Market Survey: [January 2024](#)**

- Sales market remains subdued amid weak demand.

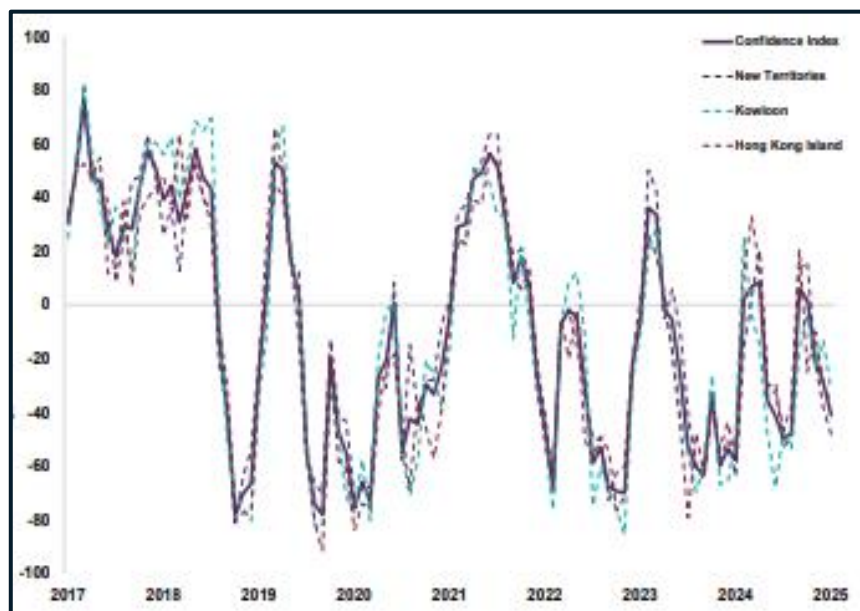
- Headline confidence index falls further on selling pressure,
- Buyer demand weakens declining prices, and
- Lettings market remains resilient.

The results from the January 2025 *RICS-Spacious Hong Kong Residential Property Monitor* point to divergent trends between the sales and lettings market. Chart 1 (as illustrated overleaf) shows subdued sentiment in the sales market with the headline confidence index falling further from -29 to -41 during the holiday season, the lowest since August 2024. The negative feedback continues to be seen across all districts in terms of the residential sales market. Meanwhile, the lettings market has entered the New Year with a positive outlook, bolstered by stable tenant demand.

**Sales market confidence continues to decline** – Overall sales volumes showed no signs of improvement in January. The reading of the agreed sales series remains in negative territory, with a net balance of -32% (similar to -29% in December). Moreover, the sales picture is not anticipated to improve in the

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near term, as indicated by the muted three-month sales expectations indicator (net balance -30%). However, willingness to sell continues to edge higher, as reflected by a marginally positive net balance of +6% for the instructions-to-sell series. Unsurprisingly, this greater selling pressure vs buyer demand has sustained the downward trend in the headline price indicator.

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

© RICS 2025

Source: RICS Economics Research: *RICS Hong Kong Residential Monitor – January 2025*, 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.

**Read the latest RICS HK Residential Monitor: January 2025 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 Monitor (GCPM), Q4 2024**

- Headline sentiment index flat to end the year but the investor enquiries metric did rise slightly in several markets.

- The headline RICS Commercial Property Sentiment Index (CPSI) was little changed in Q4,
- Credit conditions continue to improve, albeit more modestly, despite the rise in bond yields,
- Investor enquiries metric generally turned more positive, and
- Data centres likely to deliver strongest returns over the next twelve with prime assets more generally continued to be favoured.



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## The Global Commercial Property Monitor (GCPM) Q4 2024 continued.

At a headline level, it could be argued that the tentative signs of an improvement in global real estate sentiment in the third quarter of last year (see publication date) appeared to stall as 2024 drew to a close. The reading designed to capture confidence amongst respondents to the RICS Global Commercial Property Monitor (GCPM) came in at -8 compared with -7 previously and -11 in Q2. To be clear, the fieldwork for the Q4 survey actually closed on Thursday 16<sup>th</sup> January so responses (at least in some markets) are likely to have been influenced by the deleterious trend in major bond markets that continued into the early part of the New Year.

**Perceptions regarding market cycle provide further reassurance** – Although the headline sentiment metrics may not have followed through on the Q3 improvement, other results that form part of the survey are, on balance, suggestive of a modest positive shift in the mood music. The aggregated global feedback as to where in the cycle respondents perceive their local market to be is depicted in Chart 6. As in Q3, just under one-third of contributors suggest real estate is still in the downturn phase with a little over one-third contending that it is not in an upturn. Disaggregating the results, however, provides more interesting reading.

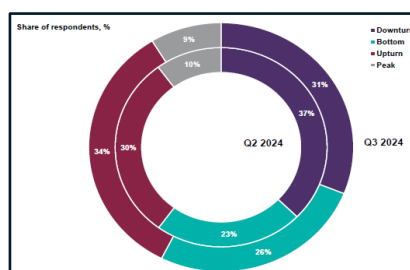
The proportion of respondents who view the real estate market to be in a downturn globally now stands at 32% (compared to 31% in Q3, 2024), as shown in Chart 6 (b), with a further 25% (compared with 26% in Q3, 2024) perceiving it to be at the bottom of the cycle.

**Chart 6: Global Perceptions Regarding Point in Cycle**

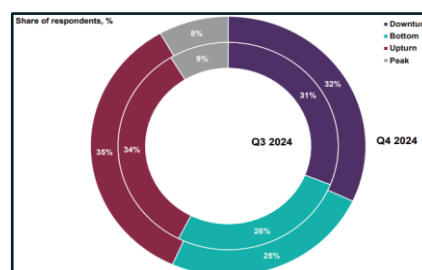
Share of respondents, %



**(a) Q2, 2024 and Q3, 2024**



**(b) Q3, 2024 and Q4, 2024**



© RICS 2024

Source(s): RICS Economics Research: RICS Global Commercial Property Monitors, (a) Q3 2024, London: RICS, p4 - Chart 6, and (b) Q4 2024, London: RICS, p4 - Chart 6.

**[Read the latest RICS Global Commercial Property Monitor, Q4 2024 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

**Construction Industry highlights include** – Construction output in Great Britain: **December 2024, new orders and Construction Output Price Indices, October to December 2024.**

- Short-term measures of output by construction industry in December 2024, new orders and Construction Output Price Indices, October to December 2024.

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

- Construction output is estimated to have increased by 0.5% in Quarter 4 (Oct to Dec) 2024 compared with Quarter 3 (July to Sept) 2024; this came solely from an increase in new work (1.2%) as repair and maintenance fell by 0.4%.
- Monthly construction output is estimated to have fallen by 0.2% in volume terms in December 2024; this came solely from a fall in repair and maintenance (1.8%) as new work grew by 1.1%.
- At the sector level, five out of the nine sectors fell in December 2024; the main contributors to the monthly decrease were non-housing repair and maintenance, and private housing repair and maintenance, which fell by 1.8% and 1.4%, respectively.

**Read the full statistical bulletin, 'Construction output in Great Britain: December 2024, new orders and Construction Output Price Indices, October to December 2024.'**

#### Also:

**Latest release - Construction statistics, Great Britain: 2021** - A wide range of statistics on the construction industry. including the value of output, new orders by sector, number of firms and total employment, insolvencies and Output Price Indices.

## Latest Statistics from HSE – Health and Safety Executive

### **Latest Key figures for Great Britain (2023/24)**

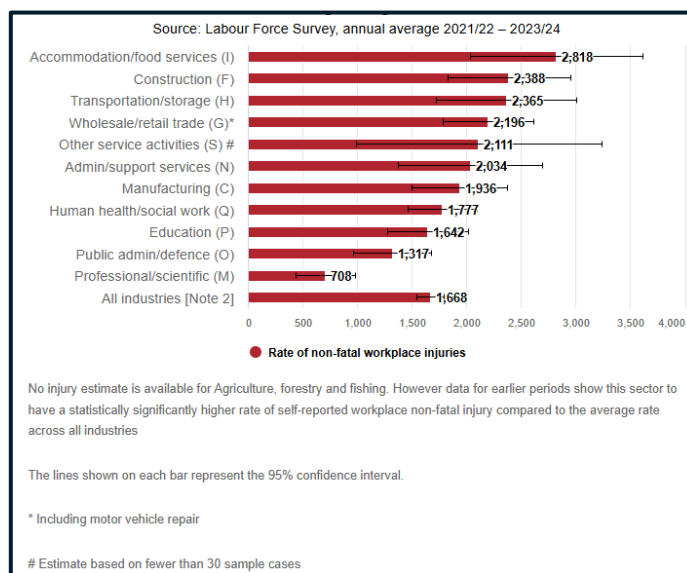
In 2023/24 an estimated 1.7 million workers were suffering from an illness they believed was caused or made worse by their work and 604,000 workers sustained (N.B. **561,000** in **2022/23** and **441,000** in **2020/21**) a non-fatal injury at work [Source: Self-reports from the Labour Force Survey]. 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 2], [Note 3]**



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**Note 1:** Industry groupings based on the section level of the 2007 Standard Industrial Classification (SIC), **Note 2:** Restricted to injuries/ill health in current or most recent job.  
**Note 3:** These estimates are based on results from a survey and are subject to sampling error.

Source: HSE (2025) 'Self-reported work-related ill health', Bootle: HSE [online]. Available at: [www.gov.uk/statistics/industry](https://www.gov.uk/statistics/industry) [accessed 10 March 2025]

**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**

- LATEST: Market Trends: Savills.com [**March 2025**]

### Prime residential price forecasts 2025

**Savills Market Trends** – Global capital values are set for more muted growth in 2025, but some sunnier climes are likely to shine. In spite of the economic turbulence of recent years, prime residential markets have provided remarkably resilient. With 2024 dubbed the “year of elections”, 2025 looks set to be a year which these new governments start to make changes.

Source: Sellers K (2025) 'Prime residential price forecasts 2025' [online], February 2025. Available at: [www.savills.com/impacts/market-trends/prime-residential-price-forecasts-2025.html](https://www.savills.com/impacts/market-trends/prime-residential-price-forecasts-2025.html) [accessed 3 March 2025]

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**Also: [Market Trends 2025](#)**

- [Offices in equilibrium: Spotlight on London](#)
- [Offices in equilibrium: Spotlight on New York City](#)
- [Europe and Middle East investment outlook and tips](#)
- [US investment outlook and tips 2024](#), and
- [Asia Pacific investment outlook and tips 2024](#).

## **2025 Forecasts- Global real estate investment: 2025 and beyond**

- After a sharp downturn in real estate capital markets, sentiment is starting to turn. But how quickly will recovery follow? Savills project global real estate investment will rise by 7% to US\$747 billion in 2024, with further growth to US\$952 billion forecast for 2025.



© Savills *Market Trends*, 2024

The past 18 months (see publication date) has been notably quiet for global real estate capital markets. In 2023, investment fell to US\$699 billion, the lowest level since 2012, with the first half of 2024 following a similar trend. Much of this downturn is due to cyclical factors, particularly a generational shift in interest rates in most major markets.

But these cyclical factors are starting to reverse. Central banks across major economies have begun to cut policy rates, fears of a global recession have largely been quelled and occupational markets remain resilient. The fundamentals of real estate **continue to attract institutional investors**.

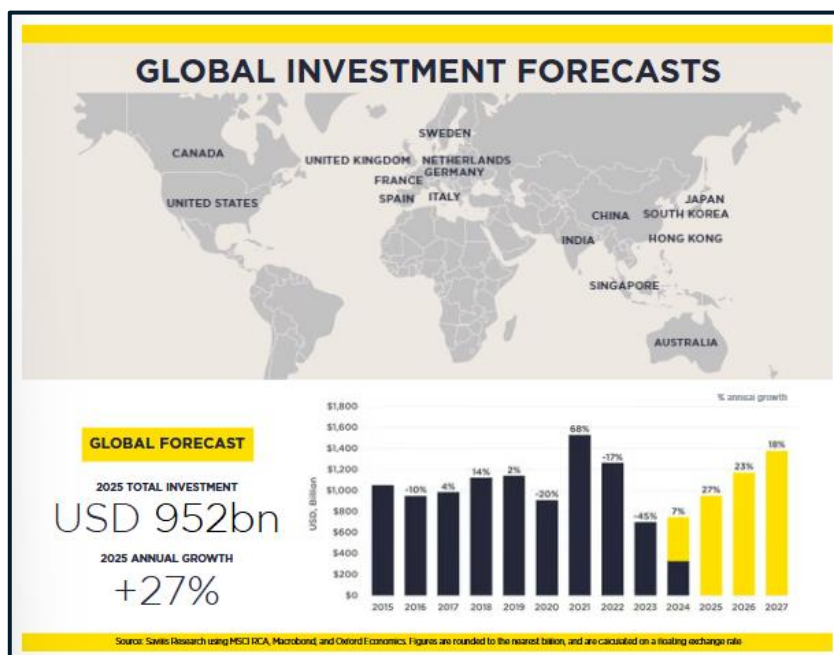
### **So what do these positive signs mean for future global real estate investment?**

We've already seen some early signs of this optimism coming through capital markets. Investment turnover has stabilised, with institutional investors starting to return to the market, increasing their market share to the highest level since 2021.

Savill's forecasts, which cover over 90% of the global market, expect turnover to increase by 7% by the end of 2024, reaching US\$747 billion. This recovery is anticipated to gather momentum in 2025, with investment forecast to rise by 27% to US\$952 billion. By 2026, global activity is expected to surpass the US\$1 trillion mark for the first time since 2022.

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### Future global real estate investment



© Savills Market Trends, 2024

**Source:** Savills Research using MSCI RCA, Macrobond, and Oxford Economics.

Global investment throughout this article refers to investment in Australia, Canada, China, France, Germany, Hong Kong, India, Italy, Japan, Netherlands, Singapore, South Korea, Spain, Sweden, United Kingdom, and United States. In total, this represents over 90% of global investment.

**Regional investment forecasts** – Much of this initial growth is supported by a recovery in Europe. With all major central banks in the region having started rate cutting cycles in the summer, commercial real estate is looking a lot more attractive. Pricing plays a role here too – values across Europe have corrected quickly, allowing buyer expectations to be met. However, it is important to take base effects into account for context; Europe experienced the largest decline in investment in 2023.

**Access further information and the article ‘[Global real estate investment: 2025 and beyond](#)’, in full.**

**Source:** Rushton, C., and Salmon, O, (2024) *Global real estate investment: 2025 and beyond*, Savills [online]. Available at: [www.savills.com/impacts/market-trends/global-real-estate-investment-2025-and-beyond.html](https://www.savills.com/impacts/market-trends/global-real-estate-investment-2025-and-beyond.html) [accessed 12 November 2024]

**Also:** [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](#)

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

## **2) CBRE Insights and Research**

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' view on all things residential, and
- **Investment** – addressing the challenges and opportunities facing commercial real estate property investors

**LATEST:** [Access the CBRE website: Insights and Research](#)

**Also:** [Sustainability in real estate decision-making: views from the coal face'](#)

**CBRE** [UK Real Estate Market Outlook 2025](#)  
[UK Real Estate Market Outlook 2024](#)

## **Other commercial real estate market reports –**

**Carter Jones** - [Commercial Market outlook 2025](#)

**JLL** - [Trends and Insights incl. Global Real Estate Outlook 2025](#) and [Property Perspectives 2025](#)

**Knight Frank** - [The Key Trends Shaping Commercial Real Estate in 2025](#)

**Lambert Smith Hampton** - [UK Investment Transactions \(UKIT\) Report. Q4 2024](#) Note: Select Solutions: Property Investment

**Note:** Further reports are available via: **VLE e-Library > Section 5 > INFABODE** – the daily resource for Real Estate professionals.

## **Built Environment Research continued –**

### **3) Joseph Rowntree Foundation (JRF) –**

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

[UK Poverty 2025: The essential guide to understanding poverty in the UK](#)

**Keywords and related topics:** Report; Child poverty; Housing; Social security; and Work.



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- This report sets out the nature of poverty in the UK in the run-up to 2024's General Election. It also sets out the scale of action necessary for the Government to deliver the change it has promised.

This is the first UK Poverty report to be released under the new Labour Government. Much of the latest data on which this report is based ends before the election. However, using JRF's cost of living tracker, we see the unacceptably high levels of poverty we referred to in last year's report persist, with economic security out of reach for millions of people. This is an urgent problem that the new Government needs to address. There were some helpful pledges in its manifesto on child poverty and ending the need for emergency food parcels, but much more will be needed if they are to be successful in 'Driving down poverty in every part of the country.'

**Access the JRF(2025) '[UK Poverty 2025](#)', in full.**

**Also gain access to the following free downloads that include: Research Findings and Related Links surrounding:**

- **Community and place**
  - [Climate change](#),
  - [Housing](#),
  - [Imagination infrastructures](#),
  - [Neighbourhoods and communities](#),
  - [Race and ethnicity](#)
- **Changing society**
  - [AI for public good](#),
  - [Narrative change](#),
- **Living Standards**
  - [Cost of Living](#),
- **People**
  - [Child poverty](#), and
  - [UK Poverty](#).

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

**[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](#)**

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#### **4) 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.

#### **Making retirement living affordable: the role of shared ownership for older people**

APPG on Housing and Care for Older People (2023)

*The Smith Institute supported the All-Party Parliamentary Group (APPG) on Housing and Care for Older People inquiry and report into the role of shared ownership housing for older people.*

The report from the Inquiry Panel highlights and evaluates the key issues concerning the development of the market for shared ownership for older people, with particular regard to the government’s current Older People’s Shared Ownership (OPSO) scheme. It then, in respective sections on the key issues, comments on the current situation and set out recommendations for improving the offer and supporting the growth of the sector.

**[Read the full piece of research, ‘Making retirement living affordable: the role of shared ownership housing for older people.’](#)**

#### **Temporary accommodation at crisis point: Frontline perspectives from London and Greater Manchester**

Farrelly, M., and Hackett, P, The Smith Institute (2022)

- This report examines statutory homelessness and temporary accommodation (TA) in London and Greater Manchester.

It is a public policy facing report to shed light on what is currently happening with the supply and demand of TA and to open up a wider discussion around what can be done to improve the situation going forward. It is not intended as an academic or technical comparative analysis of the different boroughs homelessness activities.

The findings and evaluations are based on extensive desk research and one to one interviews with housing officers and other housing professionals, housing providers, investors, politicians, experts, homelessness charities and campaigners. We also hosted two virtual roundtable discussions in the Spring of 2022 on Greater Manchester, chaired by Paul Dennett, Salford City Mayor and Deputy Mayor for Greater Manchester, and on London,

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chaired by Tom Copley, London Deputy Mayor for Housing and Residential Development.

Where relevant we have highlighted what specific boroughs are doing and have included examples of best practice and new ideas and approaches. We have laced the report with anonymised quotes from the interviews and made reference to the work of the GLA, London Councils, GMCA and other relevant organisations. We have evaluated the data and opinions and on the basis of what we've offered a series of talking points and policy recommendations. The concept of a TA system as used in this report combines the boroughs' statutory duties under the Homelessness Reduction Act (2017) and their responsibilities under relevant housing legislation and regulations.

The report covers the GLA and the 32 Greater London boroughs and the GMCA and its boroughs (Bolton, Bury, City of Manchester, Oldham, Rochdale, Salford, Stockport, Tameside, Trafford, Wigan). The data was drawn mainly from DLUHC, GLA, GMCA and other official statistics, as well as information collated by the boroughs, housing charities and professional bodies.

**[Read the full piece of research, 'Temporary accommodation at crisis point: Frontline perspectives from London and Greater Manchester.'](#)**

**Understanding the impact of almshouse charities in the pandemic.**

Hunter, P., The Smith Institute (2022)

- This independent study, commissioned by The Almshouse Association, seeks to understand the impact of the pandemic on almshouse charities and their residents, examine the difference almshouse charities have made, identify the lessons that can be drawn from the past two years; and highlight challenges the sector faces going forward.

**[Read the full piece of research, 'Understanding the impact of almshouse charities in the pandemic.'](#)**

**Housing allocations and the vacancy chain: how coordinating chains can better meet housing needs and tenant choice.**

The Smith Institute (2022)

- This report is an exploration into the factors influencing vacancy chains in London's social housing, covering general needs stock held by councils, ALMOs and housing associations, with interplays from supported and specialist housing. The report is in five sections, including a set of recommendations.

**[Read the full piece of research, 'Housing allocations and the vacancy chain: how coordinating chains can better meet housing needs and tenant choice.'](#)**

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**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.*

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 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.'**

## **Other Publications – The Smith Institute**

**- 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.'**

**- 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.**

**- Falling behind: The impact of Universal Credit on rent arrears for council tenants in London.**

**- 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.**

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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 **March 2025**, the [latest news & insights](#) include:

- **News, Insights & Opinion –**
  - [Rates Ease, Keys, Please: UK Housing Market shows promise moving into Q4](#) (09/24)
  - [Building Safety Act FAQs and Information](#) (07/24)
- **Digital Transformation / Tech Partner Programme –**
  - [AI and Automation in Residential Property Valuation \(03/25\)](#). Related link - [Wicked problems in construction: managing risk posed by using AI](#),
  - [Flood Risk Impact on UK Commercial Properties](#)
- **Urbanisation –**
  - [The planet of cities: peak population and urbanisation in the next 100 years](#) (11/24)
- **Fire Safety –**
  - [Cladding External Wall System \(EWS\) FAQs \(3/25\)](#),
  - [RICS Fire Safety Hub](#) – read the latest guidance and development from RICS in the area of fire safety,
- **Also: [The future of BIM](#)** – An overview of what BIM is and how it is evolving.

## **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.

**LATEST** - NEW [CIOB Client Guide, 2<sup>nd</sup> edition](#), with Christine Gausden RD FCIOB, UCEM Academic Delivery Manager L7 and Programme Leader for MSc Construction Management, acknowledged for her dedication and technical expertise in reviewing this work.

As of **March 2025**, the latest CIOB Policy and [Research](#) incl.

### **Future of Construction**

**Latest Research: [Attitudes Towards Construction Careers](#)** – A CIOB survey of young people and parents' attitudes, perceptions and views towards construction careers in 2025 (03/25). **Also,**

- *CIOB Artificial Intelligence (AI) Playbook 2024* (06/24)
- *Modern Methods of Construction: barriers and benefits for Irish housing* (01/24)

### **Quality**

- Research: New-build housing – how regulation can improve the consumer journal (12/23)

### **Economic and Social Impact**

- Research: *Balancing the tax system with climate goals* (10/23)

### **Ethics research**

- *Understanding Mental Health in the Built Environment*; and *The State of Well-being in the Construction Industry*.

**[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 November 2022, the House of Commons Library updated their website that is now broken down into the following sections or subject areas:

**Services** that include [Research](#), Resources, Training & Events,

**Brexit and UK-EU relations** – Research covering key Brexit moments negotiations the EU and its institutions and UK-EU relations after Brexit.

**Coronavirus** – Research relating to Covid-19 from the Commons Library and other parliamentary research services.

**Economy, Business and Transport** – Research on the economy, business transport and work and incomes. Also includes Economic Indicators and monthly economics updates.

**Home Affairs** incl. Research on communities, crime, family & civil law, justice, immigration, security, and culture, media & sport,

**Parliament & Elections** that include devolution, elections, government, parliament, and local government,

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

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

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

As of **March 2025**, the latest House of Commons Library, [Research publications](#) incl.

1. Research for Commons business,
2. Autumn Budget 2024 and Finance Bill 2024-25: Progress of the Bill, and
3. VAT on private school fees.

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

As of **March 2025** the latest [House of Commons Research](#):

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

1. **Degree apprenticeships** – This briefing explains what degree apprenticeships are, how they are regulated and funded, and how many people start one.

**Also:**

2. **Universities and the Teachers' Pension Scheme,**
3. **Institute for Apprenticeships and Technical Education (Transfer of Functions etc) Bill [HL]** – The bill would abolish the Institute for Apprenticeships and Technical Education and transfer its functions to the Department for Education.
4. **Finding funding for a master's degree,**
5. **Local area data: Special educational needs and disabilities (SEND),**
6. **Financial support for higher education students, and**
7. **Higher education around the world: comparing international approaches and performance in the UK.**

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

1. Housing market: Economic Indicators,
2. The cultural heritage of market towns,
3. Heathrow airport expansion: 2025 proposals,
4. Government policy on high street rental auctions,
5. Leasehold reform in England and Wales: What's happening and when?
6. General debate on government support for coalfield communities, and
7. Debate on housing targets in rural areas.

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

1. Debate on bathing water regulations,
2. Energy efficiency of UK homes,
3. Crown Estate Bill [HL] 2024-25, and
4. Clean power targets.

[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 (**March 2025**),

#### **Marianne Suhr MRICS: 'we need more specialist surveyors' –**

The author, broadcaster and chartered surveyor says there is a shortage of professionals with the right skills to work on historic or listed buildings.

Subject Terms/Keywords: Building conservation; Building pathology; Building surveying; Heritage and conservation; Housing; and Residential.

#### **Latest articles within *Modus*:**

#### **'When dams fall, rivers flow: balancing heritage and habit' –**

The obstruction of American rivers had huge repercussions for the environment and indigenous peoples. Now many of those rivers are flowing free again. *Modus* follows the epic story of the Klamath.

Subject Terms/Keywords: Environmental surveying; Land and resources; Land rights; Rural; Sustainability; and Water management.

- **'The Phoenix: affordable rents, shared spaces and no cars' –**  
On a former industrial estate in the south of England, an ambitious

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new housing project is aiming to set new standards in low carbon living.

**Also:**

- **'Return to the office or head for the door?'**. – The pandemic made working from home a sensible default but getting employees back to the office has proved a challenge. Why does management want workers to return – and what's in it for them?

- **From runway to work, rest and play – reimagining**

**Singapore's airport** – Singapore is running out of land. Could the redevelopment of an old air base not only provide crucial new homes and commercial spaces, but reset the culture of the city state?

- **Taking in the sea air: why pleasure piers prevailed** – Many Victorian-era UK piers are still standing strong and remain viable commercial assets, even though leisure habits have changed enormously in the past 150 years.

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**The most shared articles on Modus this year.** – Profiles of chartered surveyors with fascinating jobs were a big hit this year (2024), highlighting the wide of career paths out there for those entering the profession.

Subject Terms/Keywords: Building surveying; Cities and placemaking; Facilities management; Housing; Projects and people; and Valuation.

**What were the most-read Modus articles of 2024?** – As another eventful year in the built environment draws to a close, *Modus* brings a roundup of the most popular features RICS published in the last 12 months.

- This year *Modus* has covered topics spanning the built and natural environment, ranging from staircase design to spaceport construction and even surveying shipwrecks.

1. How much are you paid – and should you get more?
2. Sphere, Las Vegas: how green is that screen?,
3. Building Everton's new stadium: 'the people's project',
4. Boring tunnels: the Las Vegas loop,
5. How Luton Town revamped its stadium in just three months,
6. Could filling empty homes solve the housing crisis?,
7. Stephen Radford MRICS: the pub surveyor,
8. Why AssocRICS paves the way for a career in surveying,
9. Could 3D printed houses transform the built environment?, and
10. Preserving a national treasure: the Royal Albert Hall.

**And as a comparison ...****What were the most popular stories of 2023 on Modus? –**

Topics related to climate change and architecture have it into our top 10 most-read articles in 2023.

[Back to top](#)**The Top ten most read articles include the following:**

11. Which real estate sector pays the most?,
12. Future-proof: retrofitting commercial property,
13. Brutal or beautiful? The Barbican Estate,
14. Alexandra Revell MRICS: renovating the Royal Albert Hall,
15. At your convenience: the importance of good toilets,
16. From soldier to surveyor,
17. Alan Bainbridge FRICS: transforming the BBC's estate,
18. Buildings that elevated cities: The Shard, London,
19. What are the most important features of office design?, and
20. How to ensure biodiversity net gain in developments.

Subject Terms/Keywords: Commercial property; Commercial valuation; Corporate real estate; Economics; Residential; and Sustainability,

and more.

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, **March 2025 - Issue 538** focusing on – Heritage Day 2025 Shows How Heritage Creates; **Heritage Creates Refresh Published**; £1.5 Billion Announced for Community Regeneration; **Historic England New Homes from Vacant Historic Buildings Research Published**, and more.

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*, - This latest **January/February 2025** edition of *Facilitate* focuses on 'The compliance conundrum.' It's such a good headline that you're likely to have seen it many times in the past to headline an article about this biggest of facilities management challenges. Read more related articles on the [IWFM Insight webpage](#).

*Construction Management* (CM) and *Global Construction Review* (GCR) are magazines of the Chartered Institute of Building (CIOB). **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 2024**. The Latest Edition [**March 2025**] focuses on – NBS Article 09/2024, **Sustainable Futures UK Report 2024**, and covers: ▪ Insights from industry professionals' perspectives, ▪ Sustainable outcomes and the barriers we face, and ▪ The future of sustainability policy and the role of specification and project information.

- The *Sustainable Futures UK Report 2024* results from a comprehensive survey conducted by NBS in association with the Sustainable Energy Association and supported by organisations such as Glenigan and RIBA.

**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.

In-depth articles and case studies scheduled for the new volume of *Corporate Real Estate Journal* are provided overleaf.

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In-depth articles and case studies scheduled for the new volume, **Vol 14, Number 2 (2024-2025)** of **Corporate Real Estate Journal** incl.

**Vol 14, Number 2 (2024-2025)****Case Study**

1. A blueprint for great workplaces: Integrating brand identity, regional diversity and inclusive design.

**Practice Papers**

1. Transforming hybrid office management with an overarching dynamic delivery model.
2. Market research for a volatile industrial sector: Actionable methods for occupiers.
3. Unifying real estate facilities data in a single repository to improve data quality and drive more informed decisions.
4. ESG and CRE? Impact of ESG on commercially leased real estate and considerations for landlords and tenants.
5. US manufacturing resurgence: How site selectors can unlock the potential of US locations.
6. Making hybrid work through an agile portfolio approach.
7. How can decarbonisation planning for existing a large offices create value and co-benefits for corporate occupiers and owners?

**Vol 14, Number 1 (2024-2025)****Case Study**

1. Creating dynamic environments for the hybrid work experience: A case study of repositioning the Cambridge Consultants Boston office.

**Practice Papers**

1. More than one way to peel an orange: A fresh approach to building an effective lease administration function.
2. Piloting: Adopting a prototype mindset for today's workplace.
3. How AI and ML can help reduce energy usage and carbon emissions in buildings.
4. Data synergy in integrated facilities management: The key to clearer insights, smarter decision and optimised operation.
5. Agile technology planning: Embracing change to improve the hybrid workplace experience.

**Vol 13, Number 3 (2023-2024)****Example practice papers include:**

1. Reshaping the corporate landscape: Navigating changes in real estate strategies.
2. Integrating cyber into new construction and commissioning across asset classes.
3. Best practices for supplier debriefs.



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### Vol 13, Number 3 (2023-2024) continued.

#### Case Studies

1. Funding and implementing a lease compliance programme.
2. Tripple bottom line, environmental, social and governance and net zero in commercial real estate.
3. The Colorado State Government 'Reduce Our Footprint' initiative.

#### Also:

Vol 13 (2023-24) of [\*Corporate Real Estate Journal\*](#)

Vol 12 (2022-23) of [\*Corporate Real Estate Journal\*](#)

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

Vol 10 (2020-21) of [\*Corporate Real Estate Journal\*](#)

Vol 10 (1) (2020-21) Special issue: COVID-19, CRE and workplace response

Vol 9 (2019-20) of [\*Corporate Real Estate Journal\*](#)

## 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 16(4)** includes nine research papers, two innovate practice articles and one book review.

**Keywords:** open education, distance education, e-learning, online education, quality, internationalisation, autonomy, personality traits, scale, textbook, engagement, accessibility, inclusion.

**Editorial:** Introduction to *Open Praxis* **Vol 16(4)**

'The Manifesto for Teaching and Learning in a Time of Generative AI: A Critical Collective Stance to Better Navigate the future'.

**Research articles include:**

1. 'Renewable Assignments: Comparing Faculty and Student Perceptions'.
2. 'Understanding Innovation Vectors in the Use of Open Educational Resources'.
3. 'Self-Efficacy in Distances Education: A Framework to Measure its Academic, Learning, and Social Dimension',
4. 'The Role of Open Education and Faculty Gender in Shaping Student Perceptions',
5. 'Online Assessment and Artificial Intelligence: Beyond the False Dilemma of Heaven or Hell',
6. 'Understanding the Application of AI in Higher Education Systems: Global Perspectives From a Local AI Ecosystem.'

**Innovative practice articles**

1. 'Global Understanding of Smart Education in the Context of Digital Transformation'.
2. 'Enhancing Inclusion, Diversity, Equity and Accessibility (IDEA) in Open Textbook Publishing: The Development of a Guide'.

**Book review(s):**

1. 'Book Review of [Active Learning Online: Five Principles that Make Online Learning Come Alive](#) - by Intelicato, J.

Source: Kosslyn, S. M. (2021). *Active learning online: Five principles that make online courses come alive*. Alinea Knowledge LLC. ISBN 978-1-7358107-0-6.

<https://openpraxis.org/articles/10.55982/openpraxis.16.4.628>

**Keywords:** Active learning, synchronous learning, asynchronous learning, online learning, science of learning.

[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. 27 (2025): Issue S1 (January 2025)**, article titles include:

- 'Flipped Classroom Combined with Drama in Education: A Case Study.' (**03/2025**)
- 'Exploring the Use of Generative AI in Computer Science Education in a Technological University in Ireland.' (**02/2025**)

[Back to top](#)**Also, in EURODL – Articles by UCEM staff, incl.**

- 'Transcript and Accessibility: Student Views from Using Webinars in Built Environment Education,' Vol 23(2), and
- 'Massive Open Online Courses and Economic Sustainability,' by Liyanagunawardena, T.R. [et al.] UCEM, Vol 18(2). Also,
- 'Open Badges: A Systematic Review of Peer-Reviewed Published Literature (2011 – 2015)', by Liyanagunawardena, T. R., Scalzavara, S [et al.], UCEM, Vol 20(2)

**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. **Note:** OLJ is indexed in the **Web of Science** (ESCI) with a **Journal Citation Indicator** of 1.32, and **Scopus** citesscore of 5.7 for 2021, ranking it in the 93<sup>rd</sup> percentile of all journals in **Education**. OLJ is ranked among the top 3% of all open-access journals in the field of Education.

The OLC **Online Learning Journal**, latest edition,

**OLJ 2024, Vol 29(1)**

**Published: 2025-03-01**

**Editorial** - Introduction to OLJ Volume 29(1).

**Empirical Studies include:**

1. Active learning and the development of 21<sup>st</sup> century skills in online STEM education – a large-scale survey.
2. Development of Computer-Assisted Language Learning Literacy Framework for Foreign Language Teachers.
3. Sequentially Structured Dissertation Model: Implications for Timely Student Completion among Online Psychology Doctoral Students.

**Blended Learning include:**

4. Investing the Effects of Direct Instruction and Facilitating Discourse on Social and Cognitive Presence in Blended learning.
5. Predictive Model to Analyse Real and Synthetic Data for Learners' Performance Prediction Using Regression Techniques.
6. What is the De facto? Implementation of the Flipped Classroom Method in Higher Education: Veteran Professors Share Their Experience over Multiple Years.
7. The Greek Version of the Blended Teaching Readiness Instrument (BTRI).

**EADTU-Conference** – Written assignments in technology

Enhanced Post Graduate courses in TESOL.

### **Students, Community, and Online Learning**

8. Elementary STEM Teachers' Open Educational Resources and TPACK in a Professional Learning Network: A Case Study.
9. Setting the Stage for Success: Readiness and Connectedness as Antecedents of Learning Continuance Intention in Online Learning.
10. Social capital in online environments: Effects of Social Structure on Academic Performance in an Online University.
11. Encouraging Self-Regulation in an Online University Course for Preservice Teachers: An Intervention Study, and more.

[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

*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.

### **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. 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

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importance of sustainability and technology; and an overview of the wide range of professionals involved in the industry.

### **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](#).

### **The Solo Librarian: A Practical Handbook**

Roper, L. (2024) *The Solo Librarian: A Practical Handbook* [print book and eBook], Cambridge MA: Chandos [online]. Further information is available at: <https://shop.elsevier.com/books/the-solo-librarian/roper/978-0-443-15795-0> [accessed 7 January 2025]

Actively diversifying the content to increase its relevance to an international audience, this practical handbook provides a single point of reference with accompanying time-saving templates that can be easily adapted to help aid the daily activities and processes often faced by those working in information, knowledge, libraries and related disciplines.

### **Benchmarking Library, Information, and Education Services**

Roper, L. (2023) 'Benchmarking the impact, quality, and value of an academic online e-Library', in Baker, D., Ellis, L., Williams, C. and Wragg, C. (eds) *Benchmarking Library, Information, And Education Services* [print book], Cambridge MA: Chandos

### **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 \(DOAB\)](#)

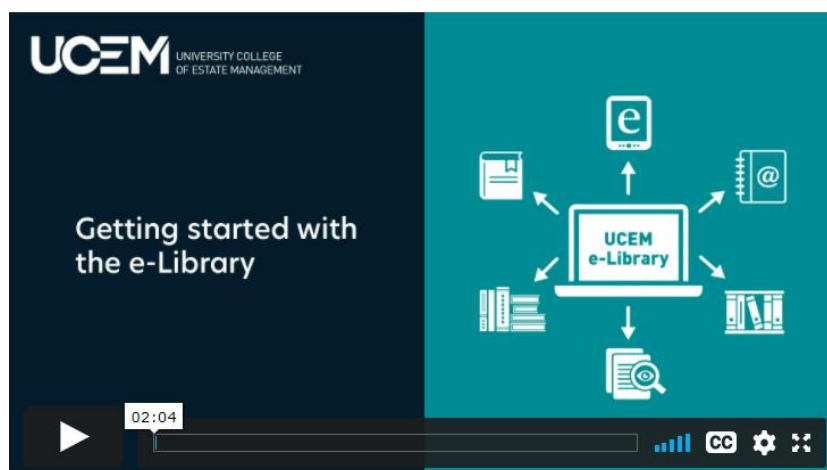
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## UCEM e-Library Portrait

### 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.



© UCEM 2024

Source: UCEM (2023) *Getting started with the e-Library* [video], YouTube. Available at: [www.youtube.com/watch?v=iEg8DFUFIfY&t=5s](https://www.youtube.com/watch?v=iEg8DFUFIfY&t=5s) [accessed 3 March 2025].

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 Ultimate, 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*, BCIS – Building Cost Information Service and RICS's ISURV online information service, NEC (New Engineering Contracts) 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 [2023 e-Library interactive brochure](#) for further information.



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



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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.

**[March 2025]** - Here are some Open Access Journal articles available via Emerald, all around the theme of

### **'The use of Artificial Intelligence in Higher Education'**

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

1. Chen, L., Ifenthaler, D., Yau, J.Y.-K. and Sun, W. (2024), 'Artificial intelligence in entrepreneurship education: a scoping review', *Education + Training*, Leeds: Emerald Publishing Ltd [online]. Vol 66 No. 6, pp. 589-608. Available at: <https://doi.org/10.1108/ET-05-2023-0169> [accessed 10 March 2025]
2. Kumar, A., Kumar, A., Bhoyar, S. and Mishra, A.K. (2024), 'Does ChatGPT foster academic misconduct in the future?', *Public Administration and Policy: An Asia-Pacific Journal*, Leeds: Emerald Publishing Ltd, Vol. 27 No. 2, pp. 140-153. Available at: <https://doi.org/10.1108/PAP-05-2023-0061> [accessed 10 March 2025]

**Note:** Access further **Emerald Insight Open Access** articles.



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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](mailto:library@ucem.ac.uk) email address

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## Student Career Services

### UCEM Career Service

UCEM Career Services 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** and **Access UCEM Career Services**

### LATEST: UCEM Careers Week 2025

- The UCEM annual Careers Event took place (3<sup>rd</sup> to 7<sup>th</sup> March 2025) with a week of live speakers and workshops on topics from business and finance strategy to networking and managing your social media professionally.



Sessions covered the following:

- Around the World in 5 days: International Student Podcast,
- How does the world see me: Professional Identity and Social Media,
- Connecting with the Future: Trends and Innovation,
- Navigating University and launching your career, and more.

**Note:** To gain further information, visit the **UCEM Careers Service and VLE Careers Pages – Careers Week, Inform, Connect, Inspire**, via the UCEM secure VLE.

Related link:

- **Build a better future with UCEM videos**

### Building Better Property Professionals

Property Elite's sole aim is to build better property professionals – supporting your career every step of the way, whether you are completing a RICS accredited degree course, your RICS Assessment of Professional Competence (APC) or simply seeking engaging Continuing Professional Development (CPD).

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© 2022 — Property Elite LLP

**Property Elite** provides training and CPD services for property professionals, including students, APC candidates and corporate clients. Their Hot Topic Highlight blog posts will arm you with the information on the hottest topics – ready to tackle an important client meeting or begin revising for your RICS APC final assessment.

This month [**March 2025**] the **Hot Topic Highlight/Blog – Property Partners Recruitment – 2024 Salary Survey**

In this week's blog, the author looks at the **Property Partners Recruitment (PPR) Salary Survey 2024**. This is relevant to both Land & Property and Built Environment professionals.

This **PPR Salary Survey** is a great example of the content and tools that are out there to assess your market worth (note: always an opportunity to mention valuation!).

Understanding the market context, your current firm's dynamics and potential opportunities will help you to make the right career decisions. This could be seeking a pay rise, asking for better benefits, rotating through departments or moving firms altogether. Asking for professional advice is key, as it speaking to your existing employer if you are facing challenges. **Note:** Property Elite do not receive any financial incentive or referral fee to share this report or to feature PPR. They do so only because they believe it is helpful for surveyors to read. There are other reports and recruitment firms that you can find out about online. **The article covers** – What are the key findings?, and What else will the report tell me?

**Access further information, register for a webinar, and Hot Topic Highlight/Blog – 'PPR – 2024 Salary Survey'**

**Access the Property Elite blog**

**Also – RICS Property Journal Article on An A-Z of the Landlord & Tenant Act 1954 for APC', and An A-Z of Inclusive Environments.**

**Estates Gazette – APC Series -**

- **RICS APC Pathways, & APC Lifeline 2024 Update**
- **Rent Reviews and Calderbank Offers.**

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

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**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 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



© EGi 2023

**Note:** *Estates Gazette* regularly publishes a yearly supplement to support EG including a yearly special issue entitled '**Starting out in Real Estate**'.

This publication highlights the many varied and interesting career opportunities in real estate and has a number of contributions from UCEM. It's an interesting and informative read, covering areas such as:

- **What is Real Estate?** The asset classes, sectors and careers in the industry explained
- **A Day In The Life** – EG ask 19 professionals about their roles and skill sets
- **In Conversation with..** For example, Crown Estate CEO on how young people can change the world for the better, &
- **All About Apprenticeships** – How a degree apprenticeship works and why one could be right for you.

**GoConstruct.org** website highlights the many career opportunities available in construction & the built environment.

**TARGETjobs** (incl. **Construction and Property**) include graduate career guides and directories available for you to view online and download for future reference covering: **Explore Property**, **Explore Engineering**, and **Careers Survival Pack**.

**House Building Careers** – Part of Home Builders Federation (HBF), here you will be able to learn about the home building industry and how it benefits you, your community, and the country as a whole.

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

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## Building People

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

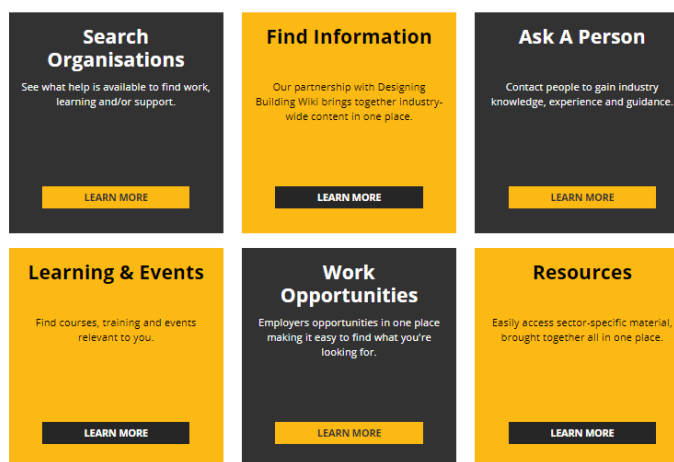


© UCEM 2021

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.

### 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 incubated social enterprise, Building People, becomes a fully-fledged success story**

- It is an exciting time for Building People 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.

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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 sustainable built environment. **Note:** 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.

### **LATEST: UCEM staff and students can now access the Supply Chain Sustainability School**

SUPPLY CHAIN SUSTAINABILITY



Reproduced with permission

The Supply Chain Sustainability School represents a common approach to developing sustainability competence in the supply chain and is part of a continued commitment to lead the industry into a brighter, more sustainable future.



(**Note:** UCEM staff/students can freely register with their UCEM email address)

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## 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.)

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

## Water Quality and work of The Rivers Trust

[Raw Sewage in our rivers](#) - A map showing an amazing representation of the extent of the sewage problem

## Building Research Establishment (BRE) Sustainability

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](#): Practical guidance and support for delivering genuine sustainability benefits.

## Building Cost Information Service (BCIS)

The BCIS has launched a free-to-access benchmark tool – [Built Environment Carbon Database \(BECD\)](#), for infrastructure carbon assessment in the UK construction industry.

## 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](#)

## QSAND and the Sustainability Goals

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



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### 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)

#### \* **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)

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## UCEM BE Sustainable articles

### 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:



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.](#)

### 5 practical tips for saving energy costs

- The cost-of-living crisis has spread across the globe. Significant increases to the cost of food and energy have outstripped worker's salaries, and spiralling inflation has plunged countless into poverty. While the tenth day of COP27 focussed on the decarbonising our energy systems, UCEM looked at practical ways to save energy that can be actioned without spending too much money.

**1. Avoid leaving appliances on standby** - The average UK household spends around £65 a year on appliances that are left on standby. This is the energy consumed by an appliance when it is not in use and not switched off at the socket. You may not think about the devices that have low-level usage when not in use, such as broadband, smart speakers and telephones, but these are the ones that are usually turned on for 24 hours a day and the amount of electricity they consume adds up.. By remembering to switch off devices more often or buying a standby saver, you could be saving yourself electricity you didn't even know you were consuming.

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**2. Draught-proofing windows and doors** - Draught-proofing is one of the most affordable and effective ways to save energy costs. It allows you to keep the warm air in your home by blocking out unwanted gaps that let cold air in – ultimately requiring less energy to heat up your home. By draught-proofing your windows and doors, you could save around £60 a year in a semi-detached house. Similarly, you could also save around £90 a year by draught-proofing an open chimney when not in use. A lot of draught-proofing can be done through simple DIY tasks at home, or professional draught-proofing can cost a bit more but last you longer.

**3. Use your thermostat effectively** – A large portion of your heating bills are absorbed by heating and hot water costs. By doing something as simple as turning down your central heating by just one degree, you could be saving up to £80 a year. You could also invest in a smart thermometer, which will heat your home more efficiently by only warming the room in use. They can be controlled by your phone and adapt to how long it takes to warm a certain temperature, so it can be set at exactly the right time.

**4. Monitor your water usage** - Water waste is something we may not realise is happening in our homes, but they add up and result in a large amount of total energy and water use. A dropping tap can waste more than 5,300 litres of water a year, so it's important to keep an eye on even the smallest amounts of water waster in the homes. By spending one minute less in the shower each day, a family of four could save up to £75 a year on energy and water bills. Similarly, turning off a running tap while you brush your teeth or wash your face can save more than 6 litres of water a minute!

**5. Invest in energy saving appliances, like an air fryer** – While it's good to buy home appliances based on their energy ratings, it's also good to research alternative types of appliances you can buy. One big change you can make is switching to an air fryer for day-to-day cooking rather than using a gas or electric cooker. Research by Utilita showed that on average they run at £55.91 a year, as opposed to a gas cooker on £121.06 per year and electric cooker on £335.57 per year.

[Access the article '5 practical tips for saving energy costs', in full.](#)

**Further 'Sustainability' information and articles:**

UCEM's ambition – To be the world's most sustainable university [online]. Available at: [www.ucem.ac.uk/sustainability/](http://www.ucem.ac.uk/sustainability/)

**Also: CIOB - [A Guide to Sustainability in the Built Environment](#)**, offering practical tools and strategies to help professionals embrace sustainable practices during the planning, construction and ongoing operation of a building. Note: This book is also available via the [UCEM e-Library](#).

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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:



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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 \(ICO\) website](#)

### Latest Data Protection News [March 2025]

#### **BBC News: Institutional abuse victims awarded £30,000 after data breach**

- Three victims of historical institutional abuse (HIA) in Northern Ireland who were exposed in a **major data breach** are each to receive £30,000 in damages, the High Court heard on Wednesday 27<sup>th</sup> November 2024. The settlements were announced in claims against the body, which was set up to champion their cause, and The Executive Office. **Keywords** include – [Data Breaches](#).

[Access the BBC News article, \(2024\) 'Institutional abuse victims awarded £30,000 after data breach', 27 Nov., in full.](#)

[Back to top](#)**ICO Latest News [March 2025] -**

**New year, new you – 2025 is the year to tighten up your data privacy** (01/25)

28 October 2024 – **Information Commissioner: Organisations need to do more to help people affected by data breaches.**

**ICO reassures employers they can share staff data in a mental health emergency** (03/24), and Related Link: ICO Blog: **Sharing personal data in an emergency – a guide for universities and colleges.** (09/21)

**Also:** UK Information Commissioner warns against 2024 becoming the year people lose trust in AI

**ICO publishes guidance to ensure lawful monitoring in the workplace** (10/23)

**ICO urges organisations to harness the power of data safely by using privacy enhancing technologies** (06/23)

**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,**
- **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? [March 2025]**

The Information Commissioner's Office (ICO) website has a 'What's new' section to highlight and link to any changes in their **ICO Guide to Data Protection** as they occur, for example: The ICO have updated their guidance on **Regulation 13** (when personal information is exempt from disclosure under these access regimes when certain conditions are met. (12/23).

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The ICO have published:

Guidance on the [national security exemption](#) in Part 2 of the DPA18. (03/21)

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](#). (01/21)

[Data Sharing Code of Practice](#), alongside a [data sharing information hub](#) with further resources and support. (12/20)

**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 to whom it will be circulated.”

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

***Introducing Copyright: A plain language guide to Copyright in the 21<sup>st</sup> 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 21<sup>st</sup> 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'**

**LATEST: Access the newly upgraded Copyright Licensing Agency (CLA) website for further information**

## **CLA Check Permissions tool**

The **CLA Check Permissions 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 [March 2025]**

**How an AI-written book shows why the tech 'terrifies' creatives**

- For Christmas I received an interesting gift from a friend – my very own "best-selling" book. "Tech-Splaining for Dummies" (great title) bears my name and my photo on its cover, and it has glowing reviews. Yet it was entirely written by AI, with a few simple prompts about me supplied by my friend.

**Access further information and the articles, 'How an AI written book shows why the tech 'terrifies' creatives', in full.**

**Also: New AI systems collide with copyright law, and What is artificial intelligence, and will it take jobs?**

**Latest 'BBC Copyright News' incl. Banksy 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 1<sup>st</sup> 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](#). 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](https://www.youtube.com/watch?v=GmuENZHeGO0&feature=youtu.be) [accessed 27 January 2025]. Ref: From 58:05 until 1.28:41.

### **Further information - Copyright Licensing Agency, CITE**

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

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**. **Note:** In 2024 the UCEM e-Library, in collaboration with UCL, produced a short [Copyright Essentials e-learning course](#) (accessed via the UCEM secure Virtual Learning Environment). This e-learning will help staff and students better understand copyright and how to apply this understanding to studies, research and other activities.

Another 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 2025**

This year's national & virtual conference is to be held on 22<sup>nd</sup> May.

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It has once again been programmed in association with Naomi Korn Associates.

### #CILIPCopy25 / #copyright

The Annual CILIP Online Copyright Conference is an ideal and unique opportunity for all librarians, archivists and information professionals to update their knowledge and professional practice in this crucial area. Additionally, it appeals to those who want to update their general copyright, licensing and publishing knowledge, and provides an invaluable forum for in-depth presentations by UK experts, informed debate and opportunities.

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**2025's Copyright conference** explores the latest updates in copyright and licensing. The programme explores different relationships, such as those between [copyright and ethics](#), [copyright and licensing](#), [copyright and creators](#), AI and IP – and all shades in-between. The programme and further information can be accessed via the [\*\*Copyright Conference Programme 2025 webpage\*\*](#)

Sessions covered broad copyright impact for the profession incl.

- **Keynote: Impact of copyright on teaching and research in Higher Education.**

**Cristina Rusu**, *Loughborough University*, will discuss whether reform is needed to support academics to be able to use copyright works lawfully as well as understand how copyright protects their research outputs.

**Also:**

- **Keynote: Artificial Inventors and Authors**

**Professor Ryan Abbotts**, *Professor of Law and Health Sciences, University of Surrey School of Law*

Over the last few years, artificial intelligence (AI) has begun to step into the shoes of human content generators and make creative works at scale. Before the end of the decade, a significant amount of art, literature, music, software, and web content will likely be created by AI rather than traditional human authors. How should copyright law deal with this phenomenon?

One narrative argues that even if AI can automate creativity, this activity is not the right sort of thing to protect, and that protection would even harm human artists. Another narrative argues that protection will encourage people to develop and use creative AI which will result in the production and dissemination of new works. AI-generated works challenge beliefs about human exceptionalism and the normative foundations of copyright law, which until now have offered something for everyone.

Copyright can be about ethics and authors and protecting the sweat of a brow and personality rights. Copyright can also be about the public interest and offering incentives to create and disseminate content. But copyright cannot have it all with AI authors – there is commercially valuable output being generated, but by authors with no interest to protect.

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- **Never a blank slate: culturally-informed copyright services for international library users**

**Caitlin Mannion**, *Head of Reference and Instruction Services, NYU Shanghai*

Academic libraries serve heterogeneous user populations whose needs are shaped by factors ranging from chosen disciplines to identities including gender, race, class, ability, culture, and country of origin. In supporting such a diverse group of users, academic librarians at colleges and universities must consider these nuances and tailor our services accordingly. This is particularly critical when engaging with international users, who comprise a significant and growing portion of our academic communities. These globally mobile users have unique needs and perspectives shaped by their cultural backgrounds and transnational experiences, with implications for their research methods, information literacy skills, and preferred modes of library engagement.

Despite their increasing presences, international students remain underrepresented in library literature and services. This is particularly true when it comes to their need for specialised librarian support in navigating the complexities of copyright law, which may diverge from the norms & attitudes around intellectual property that were shaped by their experiences in other cultural contexts. These are users who may also be collaborating across borders, publishing internationally, or finding themselves navigating unfamiliar copyright regimes and international law.

This presentation describes original empirical research undertaken by the speakers which explores this phenomenon. Our primary research question was “What copyright & copyright literacy services are provided at major universities & music conservatories in Mainland China?” Through surveys and follow-up interviews, our research explores the baseline of copyright knowledge that many graduate and postgraduate students, as well as early-career scholars, may bring from their prior experience in Mainland China to studying abroad in foreign copyright regimes. Our discussion of these research results is grounded in a review of scholarly literature in library services for international users, information technology, and copyright law. This is part of a larger ongoing research project to develop a paradigm for culturally-aware copyright services for international library users.

**Other highlights:**

- **IPO Update** – *Margaret Haig, Head of Copyright Delivery, Intellectual Property Office*
- **CLA Licensing & Technology Updates** – *Catherine Stephen, Head of Renewals & Growth, Education & Public Sector, Copyright Licensing Agency*. This session will provide an update on the Copyright Licensing Agency’s latest licensing

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initiatives, including developments around AI and text and data mining.

- **Lightning Talks on The Copyright Toolkit: A scenarios-based approach to providing copyright guidance** – *Diane Crawford-Leighton, Copyright Librarian, University of Exeter, & Predatory AI and its prey: Copyright IP and DP* – *Agnes Kozłowska, Head of Knowledge and Information Management, Medicines and Healthcare products Regulatory Agency.*

Presentations at the [2024 Conference](#) covered the following areas:

- Copyright, ethics and creator's rights;
- Regulatory updates in the context of the new Labour Government;
- Rights retention;
- AI and IP;
- Licensing, AI and TDM (Text & Data Mining).

**Also:**

- **How do we achieve success as Solo Librarians?**

**Lucy Roper**, Information Governance Manager, UCEM

Being a solo librarian or librarian in a small team with limited help can be daunting. Librarianship is multi-faceted, and while plenty of books cover library work in detail, few provide a single point of reference from the perspective of a solo librarian who must juggle multiple tasks at one time and deal with all aspects of library provision on their own.

AI is creeping increasingly into our lives, and libraries have undoubtedly witnessed a rapid transformation due to AI. As we strive for continual improvement, we must keep abreast of the latest developments and follow the ever-changing library landscapes and popularity of information systems and services, online library tools and technological advancements.

I, therefore, took it upon myself to write a practical handbook providing a one-stop-shop with accompanying time-saving templates (easily downloadable via the eBook version and companion website) that can be adapted to help aid the daily activities and processes (including the effective use of copyrighted material and undertaking yearly copyright reporting) often faced by those working in information, knowledge, libraries and related disciplines.

I follow the year in the life of a solo librarian, providing a yearly planner and timeline of activities, with supporting guidance to aid each step of the way. This guidance can then be applied, adapted and tailored to other working practices. In this lightning talk, I will share the foundations of the book, identify some of the lessons I have learned, and provide examples of the types of guidance available.

Further information is available at: CILIP (2024 '[CILIP Copyright Conference 2024 programme](#)'). [CILIP.org.uk](https://www.cilip.org.uk/events), Events.

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## The Challenges of Remote Working

- The challenges of remote working and points 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 seem sensible at present] in line with experience and how staff report it is working.
5. **Reissue and emphasis your usual security arrangements –** Virus and password protection, not leaving data visible to others, having a PIN code, or not sharing their device with others in their family or household.
6. **Take care to be aware where data is being stored**, even if temporary so that the security risk is managed and assessed.
7. For the **weekly reviews** – have your Senior Leadership Team note the number of staff using personal devices, any queries, or issues they are finding and demonstrate that you are monitoring the situation and are flexible in closing it down if any specific concerns arise.
8. Choose your **collaboration tool of choice** and consider recording online meetings and note actions especially where team members are geographically spread out and where broadband speeds and kit may vary in quality.
9. You might also consider having a **standard introduction for homeworking staff** to explain that they are homeworking and not in the office, so callers understand the position.
10. This is where a nominated **Data Protection Office (DPO)** or Data Officer can support the senior team in the messaging to colleagues.

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](#). (Source overleaf).

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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



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

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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](http://www.advance-he.ac.uk) [accessed 21 March 2025]

**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](http://www.asce.org) [accessed 21 March 2025]

**Association of Researchers in Construction Management** (ARCOM) brings together all those interested in construction management research. It aims to further the advancement of knowledge in all aspects of management in construction by support education, dissemination, and research. ARCOM [online]. Further information available at: [www.arcom.ac.uk](http://www.arcom.ac.uk) [accessed 21 March 2025]

**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.

**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/](http://www.ajbuildingslibrary.co.uk/) [accessed 21 March 2025] (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 Ultimate).

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### B

**Barbour ABI** [online]. Explore the latest Construction Market Analysis Reports, for free. Further information available at: <https://barbour-abi.com/resources/reports/> [accessed 21 March 2025]

**BBC Search and BBC Education** [online]. Further information available at: [www.bbc.co.uk/search](http://www.bbc.co.uk/search) and [www.bbc.co.uk/news/education](http://www.bbc.co.uk/news/education) [accessed 21 March 2025]

**BIDSTATS** [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: <https://bidstats.uk/> [accessed 21 March 2025]

**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](http://www.cdabb.cam.ac.uk/AboutDBB/FAQs) [accessed 21 March 2025]. 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 21 March 2025]

**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](http://www.boma.org/BOMA/Research-Resources) [accessed 21 March 2025]

**British and Irish Legal Information Institute** (BAILLI) Case Law Search [online]. Further information available at: [www.bailii.org/form/search\\_cases.html](http://www.bailii.org/form/search_cases.html) [accessed 21 March 2025]

**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 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 21 March 2025]

**Building Conservation.com** [online] – Information resources for conservation, restoration, and repairs. Further information is available at: [www.buildingconservation.com](http://www.buildingconservation.com) accessed [accessed 21 March 2025]

**Building Conservation.com Articles directory by subject** [online]. Available at: [www.buildingconservation.com/articles/articles.htm](http://www.buildingconservation.com/articles/articles.htm) [accessed 21 March 2025]

**Building Engineer** [online] – Building Engineer website covers news and insights from the following topics: Building & Fire Safety; Business & Management; Construction & Building Materials; Energy & Sustainability; Health, Safety & Wellbeing; Policy & Regulations; Refurbishment; Technology & Digital Construction. Further information is available at: [www.buildingengineer.org.uk/](http://www.buildingengineer.org.uk/) [accessed 21 March 2025]

**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](http://www.buildingpeople.org.uk) [accessed 21 March 2025]

**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 21 March 2025]

**BRE A-Z of BRE Services** (from Accreditation to Zero Carbon) [online]. Further information is available at: <https://bregroup.com/a-z/> [accessed 21 March 2025]

**BRE Case Studies** [online]. Further information is available at: <https://bregroup.com/expertise/case-studies/> [accessed 21 March 2025]

**Building Services Research and Information Association** (BSRIA) [online]. BSRIA is a test, instrumentation, research, and consultancy organisation, providing specialist services in construction and building services. Available at: [www.bsria.co.uk](http://www.bsria.co.uk) [accessed 21 March 2025]

**Building talk** [online]. Available at: [www.buildingtalk.com](http://www.buildingtalk.com) [accessed 21 March 2025] *Building Talk* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

**Built Environment Carbon Database** (BECD) is a free-to-use repository of whole-life carbon assessments of built assets and product LCA data. BECD [online]. Available at: <https://carbon.becd.co.uk/> [accessed 21 March 2025]

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## C

**Campaign to Protect Rural England** (CPRE) campaign for a beautiful and living countryside. They work to protect, promote, and enhance our towns and countryside to make them better places to live, work and enjoy, and to ensure the countryside is protected for now and future generations. CPRE [online]. Available at: [www.cpre.org.uk](http://www.cpre.org.uk) [accessed 21 March 2025]

**CPRE Resources** provides the latest news articles, policy guidance notes, published reports and research surrounding the following - Countryside, Farming and food, Housing and planning, Energy and Waste, and Transport. CPRE Resources [online]. Available at: [www.cpre.org.uk/resources](http://www.cpre.org.uk/resources) [accessed 21 March 2025]

**CBRE** – With more than 100,000 professionals in over 100 countries, CBRE is the global leader in commercial real estate services and investment. CBRE [online]. Available at: [www.cbre.co.uk](http://www.cbre.co.uk) [accessed 21 March 2025]

**CBRE Insights and Research** - CBRE sets the standard for global real estate research by providing clients with accurate and insightful market knowledge. CBRE [online]. Available at: [www.cbre.co.uk/insights](http://www.cbre.co.uk/insights) [accessed 21 March 2025]

**Centre for Architecture and Built Environment Research** (CABER) seeks to develop innovative approaches, procedures, technologies, and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric, and the environments they create. **Note:** CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online] and available at: [www1.uwe.ac.uk/et/research/caber.aspx](http://www1.uwe.ac.uk/et/research/caber.aspx) [accessed 21 March 2025]

**The Center for Construction Research and Training** (CPWR) is dedicated to reducing occupational injuries, illnesses, and fatalities in the construction industry through research, training, and service programs. CPWR [online] and available at: [www.cpwr.com](http://www.cpwr.com) [accessed 21 March 2025]

**Centre for Digital Built Britain** (CDBB) is a partnership between the Department of Business, Energy & Industrial Strategy, and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain, and use our social and economic infrastructure. CDBB [online]. Available at: [www.cdbb.cam.ac.uk/AboutDBB](http://www.cdbb.cam.ac.uk/AboutDBB) [accessed 21 March 2025]

**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](http://www.cse.org.uk/local-energy/resources) [accessed 21 March 2025]

**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 21 March 2025]

**Chartered Institute of Building** (CIOB) [online]. The Chartered Institute of Building is the international voice of the building professional, representing an unequalled body of knowledge concerning the management of the total building process. Available at: [www.ciob.org](http://www.ciob.org) [accessed 21 March 2025]

**CIOB Library** Incl. Library and Information Services [online]. Available at: [www.ciob.org/learning/library](http://www.ciob.org/learning/library) [accessed 21 March 2025]

**CIOB People** - construction's new people development resource, reaching 55,000 industry professionals. [online]. Available at: <https://ciobpeople.com/> [accessed 21 March 2025]

**CIOB's Construction Management journal** (formerly *Construction Manager*) [online]. Available at: <https://constructionmanagement.co.uk/> [accessed 21 March 2025]

**CIOB's Global Construction Review journal** [online]. Available at: [www.globalconstructionreview.com/](http://www.globalconstructionreview.com/) [accessed 21 March 2025]

**CIOB BIM+** online newsletter [online]. Available at: [www.bimplus.co.uk](http://www.bimplus.co.uk) [accessed 21 March 2025]

**Chartered Institution of Building Services Engineers** (CIBSE) – the prime source of expertise in the Building Services Industry. CIBSE [online]. Available at: [www.cibse.org](http://www.cibse.org) [accessed 21 March 2025]. 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](http://www.chinadialogue.net) [accessed 21 March 2025]

**CIBSE Journal** [online]. Available at: [www.cibsejournal.com](http://www.cibsejournal.com) [accessed 21 March 2025].

**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 21 March 2025]

**Cities / buildings images database** [online]. Available at: [www.washington.edu/ark2](http://www.washington.edu/ark2) [accessed 21 March 2025] is a collection of images of buildings and cities from around the world aimed at students, researchers, and educators.

**C-Link** is a procurement software company who also provide resources (incl. guides, eBooks, and other materials) created to help you make more money on your construction project. C-Link [online]. Available at: [www.C-Link.com](http://www.C-Link.com) [accessed 21 March 2025]

**Commercial Real Estate Services** (CBRE) is the world's largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally. CBRE [online]. Available at: [www.cbre.co.uk](http://www.cbre.co.uk) [accessed 21 March 2025]

**Community-Led Housing** (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: [www.communityledhomes.org.uk/community-led-housing-toolkit](http://www.communityledhomes.org.uk/community-led-housing-toolkit) [accessed 21 March 2025]. This Toolkit provides a wealth of technical and non-technical information on a

broad range of issues relevant to CLH. There are five Toolboxes, covering (i) Housing (ii) Communities (iii) Legal (iv) Planning and (v) Finance.

**Confederation of British Industry** (CBI) is the UK's premier business lobbying organisation, providing a voice for employers at a national and international level. CBI [online]. Available at: [www.cbi.org.uk](http://www.cbi.org.uk) [accessed 21 March 2025]

**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 21 March 2025]

**COTAC Digital Bibliography** [online]. Available at: [http://cotac.global/digital\\_bib/](http://cotac.global/digital_bib/) [accessed 21 March 2025]

**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 21 March 2025]

**Construction Enquirer** is a news website in construction. Construction Enquirer [online]. Available at: [www.constructionenquirer.com](http://www.constructionenquirer.com) [accessed 21 March 2025]

The **Construction Index** [online] provides a wide range of information services for the UK construction industry, that include a search engine of construction companies, daily construction news, market data, email newspaper letter, and Case Law analysis and legal commentary. Further information is available at: [www.theconstructionindex.co.uk](http://www.theconstructionindex.co.uk) [accessed 21 March 2025].

**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 21 March 2025]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: [www.ciria.org/default.aspx](http://www.ciria.org/default.aspx) [accessed 21 March 2025]

**Construction Industry Training Board** (CITB) is the training board for the construction industry and partner in Construction Skills, the Sector Skills Council. CITB [online]. Available at: [www.citb.co.uk](http://www.citb.co.uk) [accessed 21 March 2025]

**Construction Manager** is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: [www.constructionmanagemagazine.com/](http://www.constructionmanagemagazine.com/) [accessed 21 March 2025]

**Construction News** [online]. Available at: [www.constructionnews.co.uk](http://www.constructionnews.co.uk) [accessed 21 March 2025]

**Construction Products Association** (CPA) represents the UK's manufacturers and distributors of construction products and materials. Construction Products Association [online]. Further information is available at: [www.constructionproducts.org.uk](http://www.constructionproducts.org.uk) [accessed 21 March 2025]

**Construction Project Information Committee** (CPIC), responsible for providing best practice guidance on the content, form, and preparation of construction production information, and making sure this best practice is disseminated throughout the UK construction industry. CPIC [online]. Available at: [www.cpic.org.uk](http://www.cpic.org.uk) [accessed 21 March 2025]

**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.



**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](http://www.cla.co.uk) [accessed 21 March 2025]

**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 21 March 2025]

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## D

**Delta T** [online] is the Building Services Research and Information Association's quarterly journal. Bracknell: BSRIA [online]. Available at: [www.bsria.com/uk/knowledge/bookshop/delta\\_t/](http://www.bsria.com/uk/knowledge/bookshop/delta_t/) [accessed 21 March 2025]

**Designing Buildings Wiki** [online] and available at: [www.designingbuildings.co.uk/wiki/Home](http://www.designingbuildings.co.uk/wiki/Home) [accessed 21 March 2025] is an industry-wide, cross-discipline forum for finding and sharing information.

**Designing Buildings Wiki – Student resources** [online] and available at: [www.designingbuildings.co.uk/wiki/Student\\_resources](http://www.designingbuildings.co.uk/wiki/Student_resources) [accessed 21 March 2025] has a wide range of resources aimed at students of the built environment, as shown here.

**Designing Buildings Wiki – Construction industry acronyms** [online] and available at: [www.designingbuildings.co.uk/wiki/Construction\\_industry\\_acronyms](http://www.designingbuildings.co.uk/wiki/Construction_industry_acronyms) [accessed 21 March 2025] providing a list of commonly used construction industry acronyms.

The **Design Council** [online] champions great design that improves lives and makes things better and available: [www.designcouncil.org.uk](http://www.designcouncil.org.uk) [accessed 21 March 2025]. See also **Inclusive Design Hub for the Built Environment** (a project of The Design Council).

**Directory of Open Access Books** (DOAB) is a service which harvests details of academic and mainly peer-reviewed books published on open access. DOAB [online]. Available at: [www.doabooks.org/doab](http://www.doabooks.org/doab) [accessed 21 March 2025]

**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 21 March 2025]

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## E

**Education and Employers Research** - Online research library marks its tenth anniversary. This online library provides a comprehensive repository of different and effective approaches to employer engagement and careers education. It brings together the latest thinking with selected research published over the past 40 years. Education and Employers [online]. Available at: [www.educationandemployers.org/research-type/research-library](http://www.educationandemployers.org/research-type/research-library) [accessed 21 March 2025]

**The Economics Network** [online] provides publications, events, and other resources to support university teachers of economics throughout the UK and worldwide. Available at: [www.economicsnetwork.ac.uk](http://www.economicsnetwork.ac.uk) [accessed 21 March 2025]

**EngineeringUK** is a not-for-profit organisation, which works in partnership with the engineering community to inspire tomorrow's engineers and increase the number and diversity of young people choosing academic and vocational pathways into engineering. EngineeringUK [online]. Available at: [www.engineeringuk.com](http://www.engineeringuk.com) [accessed 21 March 2025]

**Engineering and Physical Sciences Research Council** (EPSRC) is the main UK government agency for funding research and training in engineering and the physical sciences, investing more than £800 million a year in a broad range of subjects – from mathematics to materials science, and from information technology to structural engineering. EPSRC [online]. Available at: [www.epsrc.ac.uk](http://www.epsrc.ac.uk) [accessed 21 March 2025]

**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](http://www.english-heritage.org.uk) [accessed 21 March 2025]. Note: English Heritage has now separated into two organisations. If you are looking for information on listing, planning, grants or heritage research and advice, please visit **Historic England**.

**Estates Gazette** The UK's largest commercial property news team. *Estates Gazette Interactive* [online]. Available at: [www.egi.co.uk](http://www.egi.co.uk) [accessed 21 March 2025] incl. ***Estate Gazette, News from the nationals*** – Round-up of the top property stories with quick links.

**European Real Estate Society** (ERES) was established in 1994 to create an international real estate network between academics and professionals across Europe. ERES [online]. Further information is available at: [www.eres.org](http://www.eres.org) [accessed 21 March 2025].

**ERES Digital Library** [online] and available at: [www.eres.org/index.php/activities/libraryeres](http://www.eres.org/index.php/activities/libraryeres) [accessed 21 March 2025]

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## G

**Great Buildings Online** [online]. Available at: [www.architectureweek.com/search.html](http://www.architectureweek.com/search.html) [accessed 27 February 2025] provides a database of buildings around the world and across all historic periods. You can search the database by building names, place, or architect name. It provides access to 3D models, photographic images, and architectural drawings.

**Glenigan** [online]. Available at: [www.glenigan.com](http://www.glenigan.com) [accessed 21 March 2025] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

**Global Research Gateway**: CBRE's online Insights and Research – a resource for real estate research and reports. CBRE Global Research Gateway [online]. Available at: [www.cbre.com/insights](http://www.cbre.com/insights) [accessed 21 March 2025]

**Global Construction Review** – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at [www.globalconstructionreview.com](http://www.globalconstructionreview.com) [accessed 21 March 2025]

**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 21 March 2025]

**The Guardian, Housing network** – providing insight, advice, and best practice from your community. The Guardian, Housing network [online]. Further information is available at: [www.guardian.co.uk/housing-network](http://www.guardian.co.uk/housing-network) [accessed 21 March 2025]

**The Guardian, Higher Education / Universities** [online]. Further information is available at: [www.guardian.co.uk/higher-education-network](http://www.guardian.co.uk/higher-education-network) [accessed 21 March 2025]

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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 50,642,372 records created from 142,932,638 records contributed by 192 institutions. Jisc Library Hub Discover [online]. Available at: <https://discover.libraryhub.jisc.ac.uk> [accessed 21 March 2025].

**JORUM Archive** – After 13 years delivering and sharing content across the higher education, further education and skills sectors the Jorum service and website was retired on 30 September 2016. However, many of the open education resources (OER) that were available in Jorum, access to their Jorum Archive can be accessed via the JISC website [online]. Available at: [www.jisc.ac.uk/website/legacy/jorum](http://www.jisc.ac.uk/website/legacy/jorum) [accessed 21 March 2025] 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.journaltoocs.ac.uk/index.php](http://www.journaltoocs.ac.uk/index.php) [accessed 21 March 2025]

**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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## H

**Health and Safety Executive (HSE)** is the national independent watchdog for work-related health, safety, and illness. HSE are an independent regulator and act in the public interest to reduce work-related death and serious injury across Great Britain's workplaces. HSE [online]. Available at: [www.hse.gov.uk/index.htm](http://www.hse.gov.uk/index.htm) [accessed 21 March 2025]

**HSE, Health & Safety in the construction industry** [online]. Further information is available at: [www.hse.gov.uk/construction](http://www.hse.gov.uk/construction) [accessed 21 March 2025]

**HSE Publications** [online]. Available at: [www.hse.gov.uk/pubns/index.htm](http://www.hse.gov.uk/pubns/index.htm) [accessed 21 March 2025]

**Heritage Alliance** - The largest coalition of heritage interests in England, the Heritage Alliance is the umbrella body for national and major regional Heritage NGOs. Heritage Alliance [online]. Available at: [www.theheritagealliance.org.uk](http://www.theheritagealliance.org.uk) [accessed 21 March 2025]

**Heritage Update: the online edition** of the fortnightly Heritage Alliance's **Heritage Update** e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update](http://www.theheritagealliance.org.uk/update) [accessed 21 March 2025]



**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 21 March 2025]

**Historic England** is the public body that looks after England's historic environment. Historic England champion historic places, helping people understand, value and care for them. Further information is available at: [www.historicengland.org.uk](http://www.historicengland.org.uk) [accessed 21 March 2025]

**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 21 March 2025].

**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](http://www.hbf.co.uk) [accessed 21 March 2025]

**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 21 March 2025]

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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](http://www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment) [accessed 21 March 2025]

**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](http://www.infabode.com) [accessed 21 March 2025]

**Institution of Civil Engineers** (ICE) is a registered charity that strives to promote and progress civil engineering. ICE [online]. Available at: [www.ice.org.uk](http://www.ice.org.uk) [accessed 21 March 2025]

**ICE Virtual Library** [online]. Available at: [www.icevirtuallibrary.com](http://www.icevirtuallibrary.com) [accessed 21 March 2025] is a free database that indexes all ICE journals.

**International Council for Open and Distance Education** (ICDE) is the leading global membership organisation for enhancing the quality of open, distance, flexible and online education, including e-Learning. ICDE [online]. Available at: [www.icde.org](http://www.icde.org) [accessed 21 March 2025]

**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](http://www.ihbc.org.uk) [accessed 21 March 2025]

**Institute of Workplace and Facilities Management** (IWFM) – Formerly the British Institute of Facilities Management, BIFM is now the IWFM. The workplace has been incorporated into their

new brand so that the status of the professional can help take careers further, regardless of specialism. IWFM [online]. Further information is available at: [www.iwfm.org.uk](http://www.iwfm.org.uk) [accessed 21 March 2025]

**IWFM Digital Magazine, *facilitate*** - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: [www.facilitatemagazine.com/](http://www.facilitatemagazine.com/) [accessed 21 March 2025]

**Investment Property Forum (IPF)** - The IPF is the leading UK property investment organisation for individual members. It comprises an influential network of senior professionals all active in the property investment market.

**Accessing IPF Research** - All reports are held in the **Resource Library**. Summary reports, Short Papers and At a Glance synopses can be downloaded by non-members.

**Note:** Following an initial three-month exclusivity period, all full reports are available to download by non-members free of charge.

Investment Property Forum (IPF) Resources [online]. Available at: [www.ipf.org.uk/resourcelibrary.html](http://www.ipf.org.uk/resourcelibrary.html) [accessed 18 March 2025]

**ITcon** – The **Journal of Information Technology in Construction** is a peer-reviewed scholarly journal on the use of IT in architecture, civil engineering, and facility management. *ITcon* [online]. Available at: [www.itcon.org](http://www.itcon.org) [accessed 21 March 2025]

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## K

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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](http://www.leedsbeckett.ac.uk/school-of-built-environment-engineering-and-computing) [accessed 21 March 2025]

**Leeds Beckett University's - Sustainability** [online]. Further Information is available at: [www.leedsbeckett.ac.uk/leeds-sustainability-institute](http://www.leedsbeckett.ac.uk/leeds-sustainability-institute) [accessed 21 March 2025]

**Leeds Beckett University – The Library** [online]. Available at: <http://libguides.leedsbeckett.ac.uk/home> [accessed 21 March 2025]

**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](http://www.lexology.com) [accessed 21 March 2025]

**Local Government Association** (LGA) is the national voice of local government. They work with councils to support, promote, and improve local government. LGA [online]. Available at: [www.local.gov.uk](http://www.local.gov.uk) [accessed 21 March 2025]

**LGA Building Safety Knowledge Hub** - The Local Government Association and the National Housing Federation are co-hosting an online social housing building owner network across England, to provide information, and develop and share good practice, on building safety. LGA [online]. Available at: [www.local.gov.uk/topics/community-safety/building-safety-knowledge-hub](http://www.local.gov.uk/topics/community-safety/building-safety-knowledge-hub) [accessed 21 March 2025]

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## M

**Multimedia Educational Resource for Learning and Online Teaching** (MERLOT). The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) developed and provided free access to MERLOT [online]. Available at: [www.merlot.org/merlot](http://www.merlot.org/merlot) [accessed 21 March 2025]. 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 21 March 2025]

**National Building Information Modelling (BIM) Library**, the construction industry's free-to-use resource of the NBS (trading name of RIBA Enterprises Ltd) standard BIM content [online]. Available at: [www.thenbs.com/our-tools/nbs-national-bim-library](http://www.thenbs.com/our-tools/nbs-national-bim-library) [accessed 21 March 2025]

**National Building Specification** (NBS) is an integrated global platform for everyone involved in the design, supply, and construction of the built environment. NBS [online]. Available at: [www.thenbs.com](http://www.thenbs.com) [accessed 21 March 2025]

**NBS Knowledge** [online] is available at: [www.thenbs.com/knowledge](http://www.thenbs.com/knowledge) [accessed 21 March 2025]

**NBS Publication Index** [online] - this index provides information about key industry documents which are or have been available in The Construction Information Service (CIS), or cited in NBS Guidance. Further information is available at: [www.thenbs.com/Publicationindex](http://www.thenbs.com/Publicationindex) [accessed 21 March 2025]

**NBS Digital Construction Conversations podcasts** – New to 2021, NBS are talking to inspirational industry leaders about the trends and technologies impacting the construction industry – from sustainability to regulations to change management. NBS Digital Construction Conversations [online]. Available at: [www.thenbs.com/podcast](http://www.thenbs.com/podcast) [accessed 21 March 2025]

**National Skills Academy for Construction** (NSAfC) is an industry-led framework supporting clients and contractors to identify, develop and realise employment and skills solutions across construction projects. CITB, NSAfC [online]. Available at: [www.citb.co.uk/national-skills-academy-for-construction](http://www.citb.co.uk/national-skills-academy-for-construction) [accessed 21 March 2025]. Note: It is facilitated by the Construction Industry Training Board (CITB).

**The National Trust** protect historic houses, gardens, mills, coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages, and pubs. The National Trust [online]. Available at: [www.nationaltrust.org.uk](http://www.nationaltrust.org.uk) [accessed 21 March 2025]

**National Trust's Nature & Climate** [online]. Available at: [www.nationaltrust.org.uk/our-cause/nature-climate](http://www.nationaltrust.org.uk/our-cause/nature-climate) [accessed 21 March 2025]

**New Civil Engineer** (NCE) a weekly magazine published for the Institution of Civil Engineers (ICE). NCE [online]. Available at: [www.nce.co.uk](http://www.nce.co.uk) [accessed 21 March 2025]

**We Are Nima – nima** – nima's ultimate vision is a thriving and sustainable built and natural environment transformed by exploiting purpose- driven data. nima [online]. Available at: <https://wearenima.im/> [accessed 21 March 2025]

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## O

**Online Learning Consortium** (OLC) is devoted to advanced quality online learning by providing professional development, instruction, best practice publications and guidance to educators, online learning professionals and organisations around the world. Online Learning Consortium [online] and further information is available at: <http://onlinelearningconsortium.org/> [accessed 21 March 2025]

**OLC's Online Learning** – the official journal of the Online Learning Consortium. *Online Learning* [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 21 March 2025]

**Open Education Resources, Research Hub** – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices. OER Hub [online]. Further information is available at: <http://oerhub.net/> <http://oerresearchhub.org/> [accessed 21 March 2025]

**Open Praxis** – published by the International Council for Open and Distance Education – ICDE, *Open Praxis* is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education. *Open Praxis* [online]. Available at: <https://openpraxis.org/> [accessed 21 March 2025]

**Open University (OU) UK** [online] and available at: [www.open.ac.uk](http://www.open.ac.uk) [accessed 21 March 2025]

**Open University (OU) UK, Institute of Education Technology** [online] and available at: [www.open.ac.uk/iet/main](http://www.open.ac.uk/iet/main) [accessed 21 March 2025]

**Organisation for Economic Cooperation and Development (OECD) iLibrary** is the online library of the OECD, featuring its books, papers and statistics and is the gateway to OECD's analysis and data. Note: It replaced SourceOECD. OECD iLibrary [online]. Available at: [www.oecd-ilibrary.org](http://www.oecd-ilibrary.org) [accessed 21 March 2025]

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## P

**Parliament.uk, Research briefings** produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). Parliament, Parliamentary business, Publications and records, Research briefings. Parliament.UK [online]. Further information is available at: <http://researchbriefings.parliament.uk> [accessed 21 March 2025]

**Planning, BIM & Construction Today** – The PBC Today website has compelling and informative features, news and products for a diverse audience serving a wide construction sector. PBC Today [online]. Available at: [www.pbctoday.co.uk/news](http://www.pbctoday.co.uk/news) [accessed 21 March 2025]

**Planning Advisory Service** (PAS) provide consultancy and peer support, training sessions and online resources to help local authorities understand and respond to planning reform. PAS [online]. Available at: [www.local.gov.uk/pas](http://www.local.gov.uk/pas) [accessed 21 March 2025].

**Planning Officers Society** (POS) is the voice for public sector planning practitioners, pursuing good and effective planning practice within local government [online]. Available at: [www.planningofficers.org.uk](http://www.planningofficers.org.uk) [accessed 21 March 2025]

**The Planning Portal** is the UK Government's online planning and building regulations resource for England and Wales [online]. Available at: [www.planningportal.co.uk](http://www.planningportal.co.uk) [accessed 21 March 2025]

**The Prince's Foundation** was created by the merging of The Prince's Foundation for Building Community, The Prince's Regeneration Trust, The Great Steward of Scotland's Dumfries House Trust and The Prince's School of Traditional Arts in 2018. This combined force enables the charity to achieve HRH's goal of creating harmonious communities, through three core tiers. The Prince's Foundation [online]. Available at: <https://princes-foundation.org> [accessed 21 March 2025]

**Property People's Network** (PPN) is open to all interested in land and property and provides a forum to network through a range of social activities and visits [online]. Available at: [www.ucem.ac.uk/product/corporate-ppn-membership/](http://www.ucem.ac.uk/product/corporate-ppn-membership/) [accessed 21 March 2025]

**Property Week** – Commercial property news. *Property Week* [online]. Available at: [www.propertyweek.com](http://www.propertyweek.com) [accessed 21 March 2025]

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## R

**Regeneration and Renewal – Placemaking Resource incorporating Regeneration & Renewal magazine** [online]. Available at: [www.placemakingresource.com](http://www.placemakingresource.com) [accessed 21 March 2025]

**Registry of Open Access Repositories** - ROAR is hosted at the University of Southampton, UK and is made possible by funding from the JISC. ROAR is part of the EPrints.org network and promotes the development of open access by providing timely information about the growth and status of repositories throughout the world. ROAR [online]. Available at: <http://roar.eprints.org/> [accessed 21 March 2025]

**Residential Landlord** – an online resource providing Landlord Resources, a Document Download Centre (containing templates and free tenancy agreements to amend and use as required), news and views, advice, and guidance [online]. Further information is available at: <https://residentiallandlord.co.uk/> [accessed 21 March 2025]

**The Royal Institute of British Architects** (RIBA) is a global professional membership body driving excellence in architecture [online]. Further information is available at: [www.architecture.com](http://www.architecture.com) [accessed 21 March 2025]

**RIBA Library** – Visit the RIBA Library [online]. Available at: [www.architecture.com/contact-and-visit/riba-library](http://www.architecture.com/contact-and-visit/riba-library) [accessed 21 March 2025]

**RIBA Home > Knowledge and resources > Resources > RIBA Plan of Work** [online]. Further information is available at: [www.architecture.com/knowledge-and-resources/resources-landing-page/riba-plan-of-work](http://www.architecture.com/knowledge-and-resources/resources-landing-page/riba-plan-of-work) [accessed 21 March 2025]

**Royal Institution of Chartered Surveyors** (RICS) is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property, and construction. RICS [online]. Available at: [www.rics.org](http://www.rics.org) [accessed 21 March 2025]

**RICS > News & Insights** [online]. Available at: [www.rics.org/news-insights](http://www.rics.org/news-insights) [accessed 21 March 2025]

**RICS > Upholding Professional Standards** [online]. Available at: <https://www.rics.org/profession-standards> [accessed 21 March 2025]

**RICS Publications (Modus and journals)** - RICS publishes a range of journals that are **free** to view online. Available at: [www.rics.org/news-insights/modus-and-journals](http://www.rics.org/news-insights/modus-and-journals) [accessed 21 March 2025]



**RICS Knowledge and Information Services** – The aim is to combine the best of RICS's traditional library service (**RICS library catalogue**) and space with an enquiry and resource service, RICS Knowledge and Information Service [online]. Available at: [www.rics.org/profession-standards/knowledge-and-information-services](http://www.rics.org/profession-standards/knowledge-and-information-services) [accessed 21 March 2025]

**Royal Town and Planning Institute** (RTPI) is the UK's leading planning body for spatial, sustainable, and inclusive planning and is the largest planning institute in Europe with over 23,000 members. In 2014 they celebrate their Centenary. RTPI [online]. Available at: [www.rtpi.org.uk](http://www.rtpi.org.uk) [accessed 21 March 2025]

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## S

**Savills Research** – Savills Research, Insight & Opinion provides advice and analysis to clients across the UK, with specialists in commercial, residential, and rural property research [online] and available at: [www.savills.co.uk/insight-and-opinion/research.aspx](http://www.savills.co.uk/insight-and-opinion/research.aspx) [accessed 21 March 2025]

**Shoosmiths Insights & articles** – Shoosmiths is a major UK law firm with a network of offices working together as one team. Read the latest insights, articles, and commentary from Shoosmiths or explore their content library that include – Placemaking; Real estate; Diversity & Inclusion; Litigation & disputes; Governance; Employment, and more. Shoosmiths [online]. Available at: [www.shoosmiths.co.uk/insights](http://www.shoosmiths.co.uk/insights) [accessed 21 March 2025]

**Specification Online** – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at: <http://specificationonline.co.uk> [accessed 21 March 2025]

**Supply Chain Sustainability School** represents a common approach to developing sustainability competence in the supply chain. It is a free resource available to any supplier and is part of their continued commitment to lead the industry into a brighter, more sustainable future. Supply Chain Sustainability School [online]. Further information is available at: [www.supplychainschool.co.uk/uk/default-home-main.aspx](http://www.supplychainschool.co.uk/uk/default-home-main.aspx) [accessed 21 March 2025]

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## T

**The Telegraph – Property and construction industry** - The latest news, analysis and share prices on Britain's biggest construction and property companies. The Telegraph, Property and Construction Industry [online]. Available at: [www.telegraph.co.uk/property-and-construction-industry](http://www.telegraph.co.uk/property-and-construction-industry) [accessed 21 March 2025]

**Tomorrow's Engineers** brings together resources and evidence to support the engineering community in getting the most out of their engagement activity. Tomorrow's Engineer [online]. Available at: [www.tomorrowsengineers.org.uk](http://www.tomorrowsengineers.org.uk) [accessed 21 March 2025]

**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 21 March 2025]

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## U

**University College London (UCL) Press** – UCL Press publishes peer-reviewed scholarly monographs, edited collections, textbooks and journals. All its books are available on: (a) UCL Press, and (b) JSTOR (see above).

**UK BIM Alliance** - here to help the built environment sector to take the first fundamental step in your journey to digital transformation. UK BIM Alliance [online]. Available at: <https://ukbimalliance.co.uk/> [accessed 21 March 2025]

**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](http://www.ukbimframework.org) [accessed 21 March 2025]

**University College of Estate Management (UCEM)** is the leading provider of supported distance learning for real estate and construction professionals. UCEM [online]. Available at: [www.ucem.ac.uk](http://www.ucem.ac.uk) [accessed 21 March 2025]

**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](http://www.ucem.ac.uk/e-library) [accessed 21 March 2025]

**UCEM Research repository** – a digital online archive which will allow free access to UCEM-produced outputs, including but not limited to research publications, podcasts etc. UCEM Research repository [online]. Available at: <https://ucem.repository.guildhe.ac.uk/> [accessed 21 March 2025]

**University of the West of England (UWE), Centre for Architecture and Built Environment Research** (CABER) seeks to develop innovative approaches, procedures, technologies, and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric, and the environments they create. Note: CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online]. Available at: [www1.uwe.ac.uk/et/research/caber.aspx](http://www1.uwe.ac.uk/et/research/caber.aspx) [accessed 21 March 2025]

**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: [www.uwe.ac.uk/about/colleges-and-schools/arts-technology-and-environment/architecture-and-built-environment/erbe](http://www.uwe.ac.uk/about/colleges-and-schools/arts-technology-and-environment/architecture-and-built-environment/erbe) [accessed 21 March 2025]

- **UWE Construction and conservation films**
- **UWE Construction website**

**UWE, Library, Search for things: A-Z** [online]. Available at: [www1.uwe.ac.uk/library/searchforthingsa-z.aspx](http://www1.uwe.ac.uk/library/searchforthingsa-z.aspx) [accessed 21 March 2025]

**UWE, Research publications and reports** – Providing immediate world-wide open access to all UWE's research output. Research at UWE Bristol [online]. Available at: [www1.uwe.ac.uk/research.aspx](http://www1.uwe.ac.uk/research.aspx) [accessed 21 March 2025]

## 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 21 March 2025]

## Z

**[Zotero](#)** – Your personal research assistant. Zotero is a free, easy-to-use tool to help you organise, annotate, cite, and share research. Zotero [online]. Available at: [www.zotero.org/](http://www.zotero.org/) [accessed 21 March 2025]

(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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