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# Knowledge Foundations

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## What's in this month's issue

- **Latest UCEM News** incl. - APPG note the 'Statement of Solidarity with librarians and archivists in Ukraine'.
- **Things you need to know this week** – Industry responds to levelling up Secretary Michael Gove's call to commit to remediating fire safety failings in medium rise residential buildings.
- **Latest Research** from Savills, The Smith Institute, RICS, CBRE, Joseph Rowntree Foundation, and more.

**Happy reading!**

## Issue 5 - May 2022

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

The UCEM Library aims to disseminate information, promote current awareness, and share good practice, to assist in the continual professional development of all those working and aspiring to work within the Built Environment/Property and Construction industries.

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

(R. David Lankes)

The initial aim of this UCEM Library current awareness service was to help keep students and staff informed of the education sector and industry specific news, share current and best practice, highlight the latest research, and identify case studies that will support studying and supplement teaching and learning resources. However, over the years and upon request, the readership has now expanded.

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

### Supported Online Learning

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

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

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## UCEM News

### #StandWithUkraine

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Our thoughts and prayers are with the people of Ukraine at this difficult time.

The All-Party Parliamentary Group for Libraries, Information and Knowledge (APPG) noted the '[Statement of Solidarity with librarians, archivists and information professionals in Ukraine](#)', produced by the Chartered Institute of Library and Information Professionals (CILIP) with signatures from more than 800 leading national institutions, including the British Library, the National Library, Wales, National Library Scotland and UCEM e-Library.

Both UCEM and CILIP, the Library and Information Association, and the professional body that I am a member of, have raised targeted resources to where they are most needed, i.e., via the British Red Cross DEC Ukraine Humanitarian Appeal, and International Rescue Committee DEC Ukraine Humanitarian Appeal.

In addition to the above statement CILIP have set up -

#### **Support for Ukrainian information professionals &**

#### **The Ukraine Crisis Hub**

- Ukrainian librarians and information professionals displaced by the invasion who find themselves in the UK are able to join CILIP free of charge and to access professional support including:

- Advice on finding work;
- Access to job listings;
- A one-to-one conversation with a specialist recruiter;
- Support from Specialist Interest Groups, and
- Free access to professional registration and continuing professional development.

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

#### **Also:**

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

- The Chartered Institute of Building (CIOB) and UCEM have teamed up to offer a degree apprenticeship programme which is also a route to chartered status.

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CIOB and UCEM have teamed up to offer a degree apprenticeship programme which is also a route to chartered status as a construction professional.

Apprentices already on the Construction Site Management programme who are due to complete their end-point assessment in September 2022 will be part of the first cohort who can claim their apprenticeship certificate, degree and chartered member status with CIOB.

UCEM launched the Construction Site Management degree apprenticeship in 2020 and the timing of CIOB's acceptance onto the register of end-point assessment organisations in England means all apprentices on the programme will now be able to complete their end-point assessment with CIOB.

The level 6 Apprenticeship standards with CIOB can now deliver end-point assessments for are:

- Construction Site Management
- Construction Quantity Surveyor
- Design and Construction Management

The partnership between UCEM and CIOB will support the first cohort of Level 6 Construction Site Management degree apprentices in 2022. As part of this partnership, CIOB is offering the option of becoming a chartered member, able to use the post-nominal of MCIOB, for all apprentices. The process has been designed to be relatively simple, focusing on mapping evidence of the on-programme journey towards membership requirement.

For more on the apprenticeship, and details of how to apply, head to [UCEM's 'apprenticeship programmes' webpage](#).

For more on CIOB's support for apprenticeships, head to [CIOB's 'end-point assessments' webpage](#).

Access the article '[\*\*CIOB and UCEM team up to deliver an apprenticeship with a route to chartered status\*\*](#)' in full.

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## Other UCEM News



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### **UCEM teams up with built environment peers to deliver largest-ever UrbanPlan workshop**

More than 200 secondary school students grappled with built environment concepts during a day-long workshop in Reading.

The 240 Year 10 and 11 students from UTC Reading were split into 40 teams tasked with completing a complex urban planning project with the help of 50 volunteers and 24 built environment experts, including UCEM's real estate and management tutor, Hazel Lobo. Each team had to develop a low-value site in the made-up town of Elham, considering economic, social, political and environmental issues, to create a financially viable scheme including residential and commercial buildings.

Access the article, '[UCEM teams up with built environment peers to deliver largest-ever UrbanPlan workshop](#)', in full.

### **UCEM's built environment sustainability revolution gathers momentum with short course reaching 1,000 registrations**

The short course – launched in November 2021 – offers an insight into how the built environment professionals can be more sustainable in the workplace, exploring how net zero carbon can be achieved through optimised building design, sustainable material selections, and efficient construction.

It takes an estimated 25 hours to complete the course, which can be started and completed at your convenience and at your own pace. The course comprises an introduction and five topics, namely: (1) carbon in buildings, (2) passive design, (3) active design, (4) sequestration and offsetting, and (5) energy and carbon assessments.

For more about the course, and to sign up, head to the '[Energy and Carbon in the Built Environment](#)' webpage.

Access the article '[UCEM's built environment sustainability revolution gathers momentum with short course reaching 1,000 registrations](#)' in full.

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### Related Links:

[UCEM and the Climate Framework launch free, online, short course to help built environment professionals be more sustainable](#)

[UCEM and The Prince's Foundation launch free toolkit for rapidly growing cities or towns to develop sustainability](#)

### Also:

[UCEM boosts its accessibility credentials with launch of course for staff](#)

[UCEM passes first ever Ofsted inspection with flying colours](#)

[Hong Kong-based UCEM mentors and mentees come together for networking evening](#)

[UCEM and DiverseCity Surveyors launch BAME mentoring scheme](#)

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

- [Access further information about the 30% Club](#),
- [Access more information on UCEM's diversity and inclusion objectives](#)

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

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

### COVID-19: UCEM Management response to COVID-19

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

- Student enquiries – Student Central on our VLE
- Employer enquiries – [businessdevelopment@ucem.ac.uk](mailto:businessdevelopment@ucem.ac.uk)
- Other enquiries –

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

### **Note: [Keep abreast of the latest UCEM News and events](#)**

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

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## Other News

### Things you need to know this week:

#### Housebuilders sign up to Building Safety Pledge.

- Industry responds to levelling up secretary Michael Gove's call to commit to remediating fire safety failings in medium rise residential buildings.

Several major housebuilders have given a commitment to government that they will carry out fire safety works to medium-rise residential buildings that are at possible risk from combustible cladding. Crest Nicholson, Taylor Wimpey, Redrow and MJ Gleeson are among the names that have signed the Building Safety Pledge, which will see developers fund or carry out remediation of affected medium rise housing blocks built in the last three decades. Levelling up Secretary Michael Gove is reported to have asked 53 developers to sign up to the pledge by a deadline of 4 April, as he looks to resolve the cladding crisis following on from the Grenfell Tower fire. James Thomson, chief executive of MJ Gleeson said, "I support the government's efforts to engage the wider industry in remediating buildings made unsafe by life-critical fire-safety issues. The housebuilding sector has responded positively to this initiative and is playing a proactive role and at significant cost."

### Also, this month,

- Housing associations bpha, Future Housing Group and Flagship Group have entered talks about merging to create a 60,000-home partnership spanning central and eastern England.

- Government agency Homes England and HSBC UK are providing a finance package to Poole-based SME housebuilder Wyatt Homes to enable it to deliver more than 1,000 homes on multiple sites across Dorset, Hampshire and Somerset over the next five years. Around 30 Per cent of the homes are expected to be affordable.

- Housing associations Peabody and Catalyst have officially merged, with Catalyst initially becoming a subsidiary of the Peabody Group. The move, which follows the announcement of merger talks last year (2021), means the new-look Peabody Group now has 104,000 homes in management in London and the Home Counties.

- Oxford University Development, a joint venture of the University of Oxford and investor Legal & General Capital, has chosen a team led by architect Hawkins/Brown to masterplan a 190-hectare mixed use innovation district at Begbroke Science Park, to the north of Oxford. The masterplan will expand the science park and include up to 2,000 homes, new schools, a park and nature reserve.

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- A review of health inequalities has highlighted the part industry has to play in levelling up across the UK. **The business of health equity: The Marmot review for industry**, which has been launched by UCL Institute of Healthy Equity in partnership with investor Legal & General, sets out ways in which business can improve people's lives by reducing health inequality.

- Consultant Stantec and DecarboN8, a public-private low carbon transport network for the north of England, have launched a research programme to assess how the planning and design of places and allied infrastructure can support and accelerate the transition to net zero mobility.

**Read the full 'Need to Know: Housebuilders sign up to Building Safety Pledge' article.**

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

### **Case Study: Boosting biodiversity alongside housebuilding**

- Provision of a country park at the new Trumpington Meadows neighbourhood in Cambridge has been good for biodiversity, residents and developers. The author of this article finds out how the park deliver.

After a decade of development activity, the Trumpington Meadows neighbourhood in Cambridge is now a thriving community. The development on the city's southern fringe now has more than 1,000 of its planned 1,200 homes in place – all delivered by Barratt Homes – as well as a primary school and local centre with essential shops. Alongside the new homes and amenities, development has enhanced the natural environment, being accompanied by a new country park that extends to almost 60 hectares.

Master developer Grosvenor and investor Universities Superannuation Scheme (USS) secured outline planning consent for the scheme from Cambridge City Council and South Cambridgeshire District Council in 2009, long before the principle of biodiversity net gain (BNG) entered policy debate. But the approach adopted here serves as a demonstration of the new BNG requirement, now enshrined in the Environment Act, and its potential impacts.

### **Challenges**

Trumpington Meadows' homes and accompanying country park have been constructed on the 154-hectare former site of an agricultural research facility, once containing offices, greenhouses



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and areas of planting. Although brownfield, the site was located in the green belt and had to be removed from it to enable redevelopment. One section of the site, straddling the M11 motorway and following the River Cam, was set aside for green space through the local plan process, because of its environmental characteristics and potential to extend the river's green corridor, connecting to Grantchester Meadows. In all, 80% of consultant Terence O'Rourke's overall masterplan area is open space.

### Solution

While Grosvenor was in the early stages of designing the park, it chose to appoint a partner to inform its design and to manage the end result. "Selecting the right partner was key", says Sharpe. "As well as creating the part, under the Section 106 agreement we have a 125-year obligation to maintain it, so we had to set it up in the right way." Its partner is the Wildlife Trust for Beds, Cambs & Northants (BCA), which is part of the national movement of wildlife trusts.

Having the trust on board early enabled Grosvenor and Terence O'Rourke to tap into its knowledge in areas like plant selection, provision of dog-free zones and long-term stewardship.

The final design for the country part comprises a series of green areas, extending from the north of the overall site, where the new homes are located, to the south, on the other side of the M11, which is accessed via a footbridge. Allotments and a kickabout area for children have been created between the country park and the housing.

The country park includes:

- Wet meadows and wetlands, which are home to a balancing pond, fed by a network of swales. The balancing pond discharges to the River Cam.
- Areas directly flanking the River Cam, where interventions have been kept to a minimum to preserve sensitive habitats. These areas extend further away from the homes and are expected to be less well used by the public.
- Grass meadows, which have been enhanced with wildflower planting. These have a network of paths and are expected to be more extensively used by the public, with one meadow area directly adjoining the homes.
- Woodlands and orchards.

The park also features several public artworks inspired by Saxon finds on the site. **Outcomes and learning** are also covered in this article.

[Read the Case Study entitled, 'Boosting biodiversity alongside housebuilding' in full.](#)

(Please note that you will need to register to access these stories

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in full, although you can 'Register free for limited access.' Visit the website, scroll to the base of the homepage, and note access route within 'Subscription and Registration').

**Analysis: Are our housing policies working for all?**

- Local plans and housing policies are failing to provide homes for older people and the most vulnerable, writes the author of this article.

No one would argue with the fact that there is a housing crisis in the UK, caused by decades of not building enough new homes. Although the government is trying hard to address this, are our housing policies really working? Are we providing all the housing our communities need through local plans and housing policies?

The overheated housing market, with every-growing property prices, certainly impacts heavily on younger people – the lack of affordability of both buying and renting is leading to more young people having to live at home, and for longer. Meanwhile, parents enjoy seeing the value of their homes grow year after year, but are often unable to help their children, as this would mean selling-up to release equity. Even if they wanted to, the options for downsizing are not many or too attractive.

The lack of downsizing is also, itself, a barrier to the market. Family homes are not being released to enable new young families to move. This has a knock-on effect down the property chain, restricting availability and mobility.

"But the housing crisis actually goes far deeper," explains Stuart Garnett, land and planning director at Inspired Villages, a developer and operator of integrated retirement communities (also known as extra care or retirement villages). "This is not just a lack of downsizing options; it is general lack of the right housing provision for older people overall.

**Providing for older people**

Most local plans and housing policies have little or no provision for housing for older people, be it social or private. It is a sector which is huge and only going to grow in the future. Most local plans and housing policies provide for affordable and first homes but do nothing for people at the other end of the demographic spectrum, including those with disabilities and rarely any social housing.

"Local plans and housing policies, in the main, do not provide the housing needed for the entire community they serve," says Councillor Ian Ward, portfolio holder for strategic planning at Rochford District Council. "They often miss out the most vulnerable, and the most in need."

This failing means higher tier councils need to spend millions adapting homes, providing care early, adapting homes and even building their own homes to meet their needs.

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“The white paper, **Planning for the future**, fails to recognise the need for appropriate living space across the whole life span of an individual,” explains Councillor Dale Birch, executive member for adult services, health and housing at Bracknell Forest Council. “Emphasis is given to first time homes when equal priority needs to be given to last time homes, as the number of older people is increasing. The National Planning Policy Framework (NPPF) and many local plans give scant regard to the need for healthy homes and healthy communities, which means homes are built just for the able bodied, with little or no thought that occupiers of those homes may be or become ill or disabled.

“Policies need to look at the social value as well as the social and health impact of building new homes because if you just build first time homes for aspiring younger people all on one estate the pressure on schools and local maternity and health services will be far greater than for a properly balanced and integrated community where wellbeing and healthy living is built in. Housing for older people needs to be close to facilities, which means a reduced pressure on green field sites.”

Currently, local plans provide ‘affordable homes’: 30-40 per cent of homes offered at 80 per cent of market value or 80 per cent of market rent to people on the local council housing list. There is a proportion of shared ownership or ‘intermediate affordable’ homes, which are offered to the wider market for those meeting specific criteria.

Gareth Lyon, head of policy and communications of the Association of Retirement Community Operators, says: “The greatest need is housing with care for older people. This is a huge and growing sector, covering those in their 50s (though mostly from their 70s) onwards and with the flexibility of care provision for different care needs as people’s requirements vary over time. Currently, there is little or no provision for this in local plans, and where there is, it is not very specific.”

Nick Sanderson, chief executive of Audley Group, another integrated retirement community operator, adds:

“By proving these options, we will also release more family homes back onto the market, which will help make the market more mobile.”

Another type of housing popular with the over-50s, in particular, is park homes. “Despite their popularity, they are rarely included within local plans,” explains James Sumner, associate director at Warfield Park in Bracknell, one of the UK’s largest park home locations. “This, even though they are acceptable development outside settlement boundaries and in some cases in the green belt. They are far more affordable than traditional homes and are

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demonstrations of real placemaking; creating real and supportive communities for their residents.”

A further type of housing need, which could easily be included within policies, are specialist adapted housing for those with disabilities, whether physical, mental or learning. The numbers here are very small, but just a trickle coming forward in new developments in each district and borough would avoid councils having to build, buy and adapt their own, and avoid out-of-area placements, separating people from their families and friends.

Housing policies must provide housing for the whole spectrum of needs in our communities. Everyone accepts that we are not building enough homes: the government acknowledges this and has a target of building 300,000 new homes every year over the next decade. There needs to be some radical rethinking of local plan and housing policies to be far more sophisticated, providing a wider variety of homes, which truly meet the needs of the whole community, not just parts of it.

**Further information and read the article, ‘Analysis: Are out housing policies working for all?’ in full.**

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

### **Advice: Maximising the benefits of the night-time economy on the high street**

- With lockdown lifted, councils and business improvement districts need to attract people back to urban centres with a diverse offer and events to boost night-time economies, finds the author of this article.

The night-time economy can contribute greatly to revitalising the high street. Here are five key issues to consider to maximise the benefits of the night-time economy on the high street:

1. Ensure a diverse night-time offer
2. Encourage retailers to develop night-time uses
3. Promote the reuse of existing buildings for night-time leisure
4. Identify unsafe areas
5. Plan for the night-time economy

**Gain access to more detail information on each of these points, and read the article, ‘Advice: Maximising the benefits of the night time economy on the high street’ in full.**

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

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## **BBC Latest – Climate [April 2022]**

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

[Wind and solar now supply 10% of world electricity](#)

- Wind and solar generated 10% of global electricity for the first time in 2021, a new analysis shows.

Fifty countries get more than a tenth of their power from wind and solar sources, according to [research from Ember](#), a climate and energy think tank.

AS the world's economies rebounded from the Covid-19 pandemic in 2021, demand for energy soared.

Demand for electricity grew at a record pace. This saw a surge in coal power, rising at the fastest rate since 1985.

- [Heatwaves redefined in England over climate change](#)
- [UK's rainfall records rescued by volunteer army](#)
- [Pressure grows for global deal to save nature](#)

The research shows the growth in the need for electricity last year (2021) was the equivalent of adding a new India to the world's grid.

[Access the BBC article, 'Climate change: Wind and solar reach milestone as demand surges' in full and related articles.](#)

**Related Links:**

[Access the BBC article, 'Climate change: Is the UK on track to meet its targets?' in full and related articles.](#)

Areas covered within this article include

- [What does net zero mean?](#)
- [Simple guide to climate change](#)
- [What will climate change look like for you?](#)
- [How extreme weather is linked to climate change?](#)

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

## **BBC Latest - Coronavirus – latest developments [April 2022]**

**Coronavirus pandemic –**

- Why are so many people catching Covid again?
- Covid infections are sky high – why stop testing?
- Ending NHS staff Covid death pay 'disrespectful',
- Rules reveal who will still get free Covid tests,
- Covid closures still affecting 400 million pupils,
- Ros Atkins on ... the UK's rising Covid infections,
- The UK's last remaining Covid restrictions,
- UK Covid-19 infections approach record high

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

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

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

**Also:**

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

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

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

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

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

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

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

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

[Further information and access to the article ‘The evolution of building surveying education during COVID-19’, in full.](#)

[Access further information about UCEM’s Supported Online Learning > e-Library.](#)

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

- With many industry professionals forced to work remotely, is now the perfect time for construction to get up to speed with all

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things BIM and digital? *Construction Manager* magazine finds out if the coronavirus will change the way we work forever.

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

Mark Boyle – Global design direct, Robert Bird says, **‘Our digital processes lend themselves to remote working.’ (Boyle 2020)**, and Gary Fannon – Technology director, Turner and Townsend says, **‘Early digital adopters will be reaping the rewards.’ (Fannon 2020)**

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

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

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

**Related links:**

**What will the post-pandemic office look like? -** With remote working seemingly here to stay, anecdotal evidence suggests that firms are looking to cut office space by up to 40%. How is the workplace having to evolve to remain relevant?

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

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

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

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



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

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

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

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

### Covid-19 and the impact on business

## HSTalks

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

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

### [Latest News: \*Construction Management \(CM\)\* \(formerly \*Construction Manager\*\) \[April 2022\]](#) [Future Homes Standard – a template for construction from 2025](#)

- Housing association Midland Heart is pioneering one of the first Future Homes Standard developments, led by its head of construction Tony Hopkin.

The introduction of the Future Homes Standard (FHS) is one of the significant challenges the housing sector has faced in decades. It demands stringent building fabric requirements, a low-carbon form of heating and hot water, and homes that emit 75%-80% less carbon than homes built under current regulations.

The FHS will become a building regulations requirement from 2025, but one housing associations is already embracing the changes. Midland Heart is building a 12-home development in Handsworth, Birmingham, which will meet the new standard.

**Project team** – Eco Drive, Birmingham. **Value:** £2.2m, **Client:** Midland Heart, **Main contractor:** Tricas Construction, **Architect:** Oakley Architects, **Engineer:** Patrick Parsons, **Cost consultant:** Thornton Firkin; **Clerk of works:** Derek Evans.



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This article covers:

(1) Project scope, (2) Key FHS challenges, (3) Resident engagement, (4) Supply chain challenges, (5) Modelling performance using Standard Assessment Procedure (SAP), (6) Sustainability features on the ECO Drive project, and (7) Inspection apps helps monitor quality.

Access and read the article in full, CM Staff (2022) '[Future Homes Standard – a template for construction from 2025](#)', *Construction Management* [online], 30 March . Available at: <https://constructionmanagement.co.uk/future-homes-standard-a-template-for-construction-from-2025/> [accessed 1 April 2022]

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

#### **Abu Dhabi unveils design for major new natural history museum**

- Abu Dhabi has unveiled plans for its Natural History Museum Abu Dhabi, designed by architects Mecanoo, which will be the new home of 'Stan', a mostly complete 11.7-metre-long fossil of a 67-million-year-old Tyrannosaurus rex.

Due to be completed at the end of 2025, the 35,000-sq-m campus will be built in the Saadiyat Cultural District, joining the Louvre Abu Dhabi, Guggenheim, Abu Dhabi and other notable exhibition spaces.

It will feature "some of the rarest wonders of natural history ever found", taking visitors on a "13.8-billion-year journey through time and space", Abu Dhabi's Department of Culture and Tourism said.

Access and read the article in full, Sweet R (2022) '[Abu Dhabi unveils design for major new natural history museum](#)', *Global Construction Review* [online], 4 March. Available at: [www.globalconstructionreview.com/abu-dhabi-unveils-design-for-major-new-natural-history-museum/](http://www.globalconstructionreview.com/abu-dhabi-unveils-design-for-major-new-natural-history-museum/) [accessed 1 April 2022]

### **Shoosmiths UK law firm Insights and Articles**

- Read the latest insights, articles, and commentary from Shoosmiths UK law firm or explore their content library, or listen to the latest podcasts **[April 2022]** surrounding sectors such as **Real Estate** that include:

#### **2022 predictions: what's on the horizon for construction?**

- As the pandemic persists and the disruption of the previous two years continues to impact projects, the construction industry faces a continued period of uncertainty in 2022.

#### **Then and now – essential learnings from a global pandemic**

- The events of early 2020 cause a huge disruption to the retail industry, but two years on, are we still facing the same challenges? Keywords – Real estate, Employment, Commercial, COVID.

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### **Strategic planning frameworks will be essential to levelling up**

The much-anticipated **levelling up white paper** has finally been published, including 12 legally binding 'missions' to improve health, living standards, transport, crime and wellbeing by the end of the decade.

Keywords – Real estate

### **Overseas Entities: the real estate effect**

- The Economic Crime (Transparency and Enforcement) Act received Royal Assent on 15 March 2022. Its effects will be felt far and wide across the UK real estate industry.

Keywords – Real estate; Sanctions.

### **UK Cities Investor Guide**

- UK cities are poised to make their comeback and the opportunity is there for all of us to capitalise on the tentative signs of recovery.

Keywords – Real estate; ESG; The New How; Coronavirus

### **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.

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

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

CIRIA is pleased to announce [[April 2022](#)] new [free CIRIA practice guidance](#) and publications that include:

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

This guidance provides confidence on the use of the standards within the code of practice that provides a benchmark for those procuring and delivering property flood resilience (PFR).

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

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

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

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

**Other guides include:**

### **[Retrofitting ground gas protection measure \(C795\)](#)**

### **[Grouted anchors and soil nails \(C794\)](#)**

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

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

### **[Latest update](#) [[April 2022](#)]**

**[Phase 2 hearings](#)** – Inquiry hearings will resume on Monday 4<sup>th</sup> April at 10:00.

A timetable of the week is available via the [Grenfell Tower Inquiry website](#).

**Drop-in sessions** – The next monthly drop-in sessions for BSRs and members of the public will be on **Thursday 28<sup>th</sup> April** from 16:30-17:30 at the Inquiry Building

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

**Also: Latest from the Inquiry**

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**Latest update from the Inquiry [April 2022]** – The Inquiry has published an update on the its next community drop-in session. This update provides a digest of:

- **Hearings update**, and
- **March 2022 Newsletter** – The Inquiry has published an update on its work. This update contains information about:
  - Module 6 hearings;
  - Attendance at hearings,
  - Monthly community drop-in sessions,
  - Disclosure,
  - Core Participant numbers,
  - Arrangements for support during hearings, and
  - Contact information.

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

**Related Links:****Cladding: Panels failed fire tests 13 years before Grenfell -**

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

Panels, commonly used on buildings in the UK, failed fire tests carried out in 2004.the Inquiry venue at 13 Bishop’s Bridge Road, London, W2 6BU. The results, marked “Commercial in confidence”, were circulated within an industry advisory group.

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





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

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

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

Symonds T (2021) [‘Cladding: Panels failed fire tests 13 years before Grenfell’](#), *BBC News* [online], 16 September. Available at: [www.bbc.co.uk/news/uk-58584348](http://www.bbc.co.uk/news/uk-58584348) [accessed 23 February 2022]

**Related Topics**

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

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## Government details fire safety-related changes to planning system

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

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

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

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

- involve the Health and Safety Executive (HSE) becoming a statutory consultee before permission is granted for development which involves or is likely to involve a high-rise residential building.
- require relevant applications for planning permission to include a fire statement to ensure applicants have considered fire safety issues as they relate to land use planning matters such as layout and access.
- help inform effective decision-making by local planning authorities or the secretary of state so that those decisions reflect and respond to the needs of the local community.

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

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

[Further information and access to the \*Construction Manager\* article, 'Government details fire safety-related changes to planning system', in full.](#)

## [RIBA Stirling Prize 2021](#)

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

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

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

### **Skills Agenda: Concerns for Skills Shortages in the 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](#).

### **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. Developed by EngineeringUK, the website is for anyone who funds or delivers engineering engagement activities and is designed to help improve the engineering community's collective impact.

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

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

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

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

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

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

- **UK Residential Market Survey** – Used by government and key institutions, the Resi. Market Survey is a key indicator of conditions in UK residential sales and lettings.
- **Hong Kong Residential Market Survey** – The Hong Kong Residential Market Survey is a leading sentiment indicator of conditions in the Hong Kong residential sales and lettings markets.
- **UK & Global Construction Monitor** – The leading sentiment indicator of the construction markets.
- **UK Facilities Management Survey** – The UK Facilities Management survey is a quarterly indicator of activity and sentiment across the facilities management industry.
- **UK & Global Commercial Market Survey** – The global commercial property monitors are leading indicators of conditions in commercial property occupier and investor markets around the world.
- **UK Economy and Property Market Update** – The Economy and Property Market Update is a new quarterly assessment of key macro, real estate and construction trends.
- **RICS/RAU Rural Land Market Survey & Land Prices** – The RICS/RAU Rural Land Market Survey is the leading survey on demand, supply and prices in the farmland market.

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

## **RICS – The Future of Surveying**

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

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

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



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

[Read the article, 'Future of Surveying' and gain access to the Futures report in full.](#)

## **GOV.UK, National Statistics - UK House Price Index [Last updated August 2021]**

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

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

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

Properties have been included:

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

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

The summary report contains:

- Headline statistics
- The economic statement
- 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 summary: June 2021', Published 18 August 2021' in full.](#)

Also:

[Access Collection - UK House Price Index: reports 2021](#)

Related Content:

- UK House Price Index summary: August 2021
- UK House Price Index summary: March 2021
- UK House Price Index England: March 2021
- UK House Price Index Wales: May 2021
- UK House Price Index England: June 2021

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## Tackling mental health and wellbeing within the construction industry



© MHFA England

The construction industry reports some of the highest levels of workplace mental ill health.

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

### [Find out more about the social value of the programme](#)

#### Related Links:

##### **UCEM launches mental health strategy**

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

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

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

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

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

1. to create a supportive whole university community that promotes positive mental health, and ensures mental health is a key strategic priority.
2. to ensure the UCEM community is informed and aware of the importance of good mental health and works to tackle the stigma surrounding mental health.
3. to ensure appropriate and timely support is provided to those who need it.

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4. to develop links with external support services and stakeholders
5. to use data to evaluate and monitor the effectiveness of mental health interventions and inform future strategic development.

For more details, take a look at [UCEM's mental health strategy document](#).

Access the article '[UCEM launches mental health strategy](#)' in full.

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

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

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

Access the CIOB's latest report *Understanding Mental Health in the Built Environment*, including the results from the CIOB survey of over 2,000 professionals. [Access CIOB online Policy Portal, & 'CIOB surveys the sector to gather data on mental health & stress'](#)

### **How can buildings have positive impact on wellbeing?**

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

[Access and read 'How can buildings have positive impact on wellbeing' in full.](#)

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

### **Coronavirus and your wellbeing**

You might be worried about coronavirus (also known as COVID-19) and how it could affect your life. This information is here to help. **Where to access further information support: BBC Action Line** [online]. Available at: [bbc.co.uk/actionline](http://bbc.co.uk/actionline). Telephone: 0800 066 066

[Access MIND's article, entitled 'Coronavirus and your wellbeing'.](#)

### **Sustainable outcomes for buildings**

The Royal Institute of British Architects (RIBA) has published

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

### [Access the RIBA Sustainable Outcomes Guide](#)

## **National Trust planning principles**

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

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

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

### [Access the National Trust website](#)

## **National Trust (NT) – “Our planning principles”**

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

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

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

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

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

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

**Objecting to proposals, where appropriate** – When proposing development on their land to meet justified needs, the NT will use a sustainable construction approach. This will include:

- Minimising resource use and generation of waste,
- Being energy efficient,

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

[Read the National Trust Planning Principles](#)

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

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

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

**Case studies** are provided.

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

## **Foster + Partners Projects**

Foster + Partners Projects – one of the most innovative architecture and integrated design practices in the world. Over the past four decades the practice has pioneered a sustainable approach to architecture through a strikingly wide range of work, from urban masterplans, public infrastructure, airports, civil and cultural buildings, offices and workplaces to private houses and product design. By visiting their website, you can gain further information about their current and past work, upcoming projects, and gain access to their-

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

[Access Foster + Partners Projects](#)

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

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

**What is the RIBA Plan of Work?** The RIBA Plan of Work was first published by the Royal Institute of British Architects (RIBA)

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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

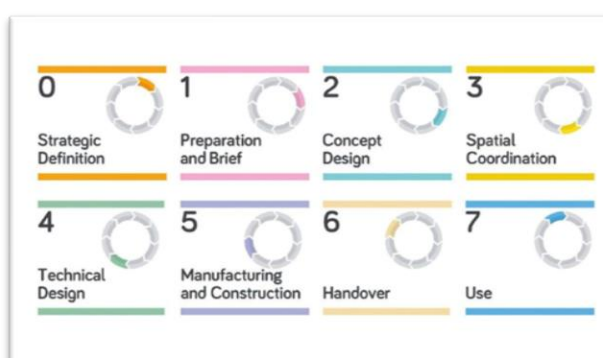
**4 – Technical design** – no change

**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 BIM+ News and Projects](#)

**[April 2022] –**

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

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

In December, the M1 motorway network in Northern Ireland became the first UK project and only one of two in the world to receive a BSI ISO 19650-3 (Asset Management) Kitemark. The Kitemark accredits the project with not only putting in place a process to structure data in a way that adheres to the BIM standard, but also delivers on it.

In practice it means that Amey Roads NI can easily search through huge amounts of data gathered by inspection reports and laser scans, for example, to help predict the condition of the road and gain better insight into accident trends.

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### About the project

A special-purpose project company, Amey Roads NI Ltd, was created to manage the overall DBFO Package 2 contract. This 30-year, £250m capital expenditure project began in 2007 with the construction work being undertaken by a joint venture between Ferrovial Agroman Ireland and Lagan Construction. Amey was appointed as operations and maintenance (O&M) contractor for the scheme.

The project formed part of Northern Ireland's £18bn investment strategy, Building a Better Future. The aim of this strategy was to make Northern Ireland a better place to "live, work, learn and grow". Under the strategy, the region's schools, roads, water, waste, health and office infrastructure were to be improved over the following decade.

As part of this development programme, the Northern Ireland Department for Regional Development identified two packages of work to improve the strategic road network across Northern Ireland. These were delivered as public private partnerships. Amey Roads NI is delivering DBFO2.

Melanie Dawson, founder of BIM and digital construction consultancy Origin7, developed the full suite of guidance and process for Amey Roads NI, helping with implementation through to success at audit. In this article, she describes how and why the Kitemark was sought and what benefits implementing BIM processes specifically around the asset management phase of the project brings.

Gain access to further information and full access to the project case study article, entitled '[How a Northern Ireland motorway became a BIM pioneer](#)', BIM+ Projects, Case Study.

### Other BIM+ Projects include:

- Project: [3D visibility key on Piccadilly Lights project](#), 17<sup>th</sup> February 2022.
  - Accuracy and 3D coordination were essential for Swanton Consulting when it was chosen to design the temporary works for a £250m development project that features London's iconic Piccadilly Lights at its core.

**Client:** Landsec; **Architect:** Fletcher Priest; **Principal contractor:** Wates; **Temporary works designer:** Swanton Consulting.
- Project: [Going digital drives East London brownfield development](#), 8 February 2022.
  - Taking a digital approach for the first time helped architecture practice Waugh Thistleton to play a significant part in the successful delivery of a brownfield development near East London's Olympic Park.



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

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

- **Project:** Overcoming the engineering challenge of Grand Designs' Hux Shard, 15 December 2021.

- The Hux Shard – the star of the most recent series of **Channel 4's Grand Designs** – is inspired by large sculptures in the countryside and the rocky outcrops of nearby Dartmoor. Its striking, geometric appearance not only generated debate, but also provided structural engineer, TWP Consulting Engineers, with a significant challenge.

**Client:** Joe Priday; **Architect:** Squirrel Design; **Structural Engineer:** TWP Consulting Engineers

- **Project:** How to implement a common data environment on a budget, 23 November 2021.

- How do you implement a common data environment (CDE) when you're a small business and you've got more than enough on your hands running your business. Toby Adam, director at Gaunt Francis Architects, and author of this article, shares his experience.

- **Project:** How Maber Associates brought a new BIM approach to hospital handover, 1<sup>st</sup> October 2021.

- Maber Associates was brought on board as BIM manager when Balfour Beatty was appointed to finish the construction of the Midland Metropolitan University Hospital near Birmingham after the demise of PFI contractor Carillion. Denise Chevin, the author of this article, spoke to Maber's head of BIM, Josh Chrystal, to hear how the practice refreshed the BIM strategy.

**Client:** Sandwell & West Birmingham NHS Trust; **Contractor:** Balfour Beatty; **BIM manager:** Maber Associates; **BIM tools:** Solibri, BIMcollab, OpenSpace, Glider BIM

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

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

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

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

22 December 2020

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

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

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

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

### **Related BIM+ Projects**

- **(1) Project: [John Sisk relies on BIM best practice to deliver Malmo data centre](#), 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** - The 2020 annual BIM report marks the 10<sup>th</sup> year of recording over 1,000 industry professional's view about BIM. It illustrates how usage and perceptions of BIM have changed since 2011, progress made as an industry, and anticipated changes in the next decade.

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

The latest edition [**April 2022**] of NBS CIS *Insights* focuses on – **Retrofitting and sustainability**, and covers:

- What is sustainable construction?
- Retrofitting and reuse: proactive, adaptive and expansive, and
- Things to consider.

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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 [April 2022]**

#### **UK Economy and Property Market Update, February 2022**

- More interest rates increases on the way, but market sentiment remains upbeat for the time being.

**Summary:** Inflation pressures continue to grow leading to a shift in stance from the Bank of England. Despite the hikes in interest rates seen to date and the prospect of more to come, for now it is anticipated that the economy will remain relatively resilient. Consumers are expected to draw heavily on the built-up savings during the pandemic and business investment is seen picking-up on the back of the tax incentive introduced last year (2021). This is reflected in the feedback provided to recent RICS surveys of the construction sector as well as the commercial and residential markets which generally remain positive.

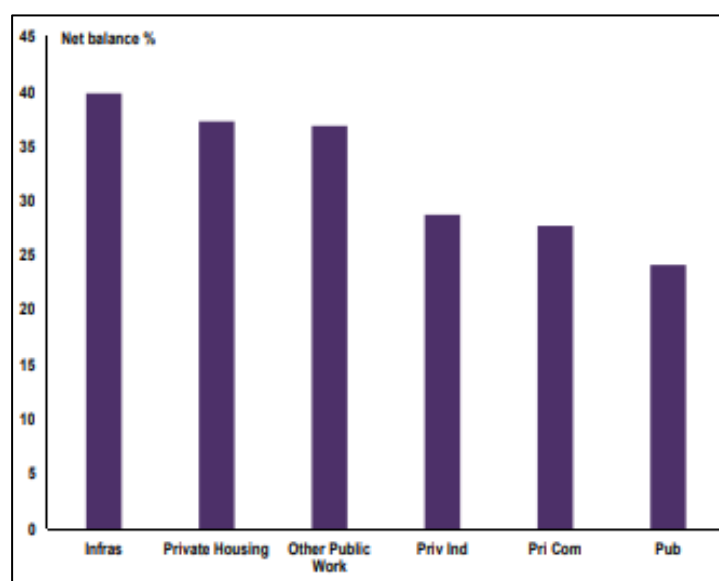
**Construction Sector** – If the feedback to the latest (see publication date) RICS Construction Monitor is anything to go by, sentiment generally remains positive across the sector with workloads rising particularly strongly in infrastructure and private residential. Chart 10 shows the workloads readings by sector and demonstrates the upbeat trend across all parts of the industry. A broadly similar message is evident in the January (2022) IHS Markit/CIPS Construction PMI which recorded its twelfth consecutive positive reading, as the commercial component

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climbed to a six-month high.

Forward looking indicators covered by the RICS survey paint an encouraging picture of the outlook, despite some of the ongoing macro challenges. New business enquiries remain strong while the one year out workload expectations numbers are firmly in positive territory in net balance terms. This broadly chimes with the latest forecasts from the Construction Products Association, which envisages industry output rising by a further 4.3% this year (2022) (following the 13% increase in 2021).

**Chart 10:** The RICS Q4 Construction Monitor shows a broad-based growth in workloads.



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

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

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

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

**UK Residential Market Survey: [March 2022](#)**

- Housing market activity remains resilient in the face of macro headwinds for the time being.

- Buyer demand and sales continue to rise at a modest pace in March,
- New instructions indicator turns positive for the first time in twelve months,
- House price growth remains firm at the headline level.

The March 2022 *RICS UK Residential Survey* results point to a continued moderate rise in housing market activity over the month, with respondents anticipating this picture will remain in place over

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the near-term. That said notwithstanding the general resilience in the latest survey statistics, contributors do appear cautious about the potential impact of macro headwinds on the market, with concerns on issues such as the rising cost of living and higher interest rates highlighted in the comments submitted.

At the national level, a net balance of +9% of respondents noted an increase in new buyer enquiries during March (2022). This marks the seventh consecutive positive monthly reading for this indicator, although the latest reading is a little softer than the figure of +16% returned in the previous iteration of the survey.

Alongside this, respondents cited a rise in the volume of fresh listings coming onto the sales market for the first time since March 2021. As such, while only marginally positive, the current net balance for new instructions of +8% brings the survey's metrics tracking changes in demand and supply more closely into line. Furthermore, contributors have now reported a flat to slightly positive year on year trend in the number of appraisals being undertaken in each of the past three months. That said, despite there being some more encouraging signs on the supply front of late, resulting in a small rise in the average number of properties on estate agents' books, the current level of inventory remains close to historic lows.

Meanwhile, agreed sales rose in March according to a net balance of +9% of contributors. This reading is unchanged from February and remains indicative of a steady upward trend in transaction numbers. Looking ahead, near-term sales expectations remain modestly positive, with the latest net balance coming in at +16% (compared to +11% previously). Further ahead, the twelve-month expectations indicator now points to a broadly stable outlook for residential sales volumes at the national level.

Going forward, respondents across all areas foresee further growth in house prices at both the three- and twelve-month time horizons, posting headlines net balances of +30% and +65% respectively. Over the next five years, contributors to the survey envisage house prices rising by just over 4% per annum, at the national level.

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

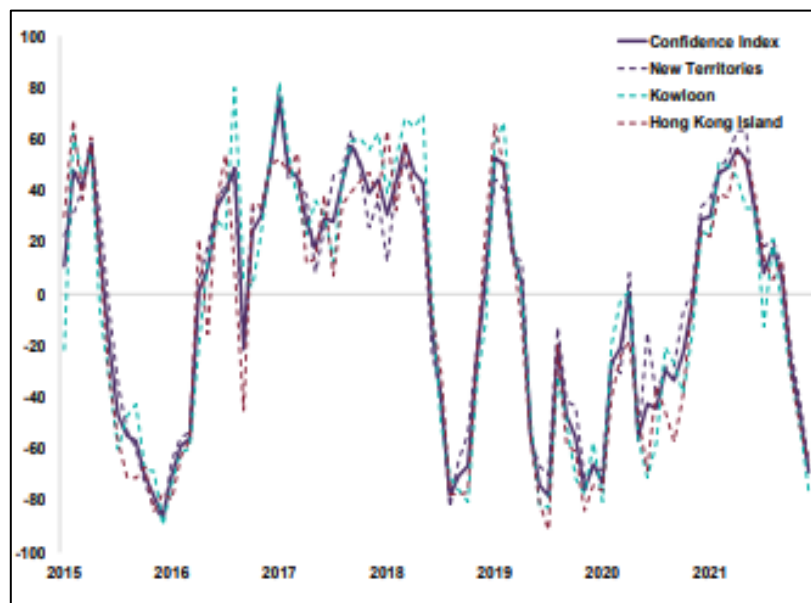
**RICS - SPACIOUS 千居 Hong Kong Residential Monitor / Market Survey: February 2022**

- Sentiment continues to deteriorate across the market.

- Confidence indicator slips for a fourth consecutive month
- Buyers enquiries and agreed sales continue to fall noticeably
- Respondents report declining prices across all regions.

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Chart 1: Confidence Index\*:



© RICS 2022

Source: RICS Economics Research: *RICS Hong Kong Residential Monitor – February 2022*, London: RICS, p1 - Chart 1.

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

The February 2022 *RICS-Spacious Hong Kong Residential Property Monitor* results show a further deterioration in market sentiment over the month, with the worsening pandemic backdrop in recent weeks said to be weighing on conditions significantly. Indeed, the Confidence Index (chart 1) pulled back for the fourth successive month, returning a reading of -69, down from -46 previously. As such, this is the weakest return for the overall confidence metric since January 2020.

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

### Global Commercial Property Monitors, Q4 2021

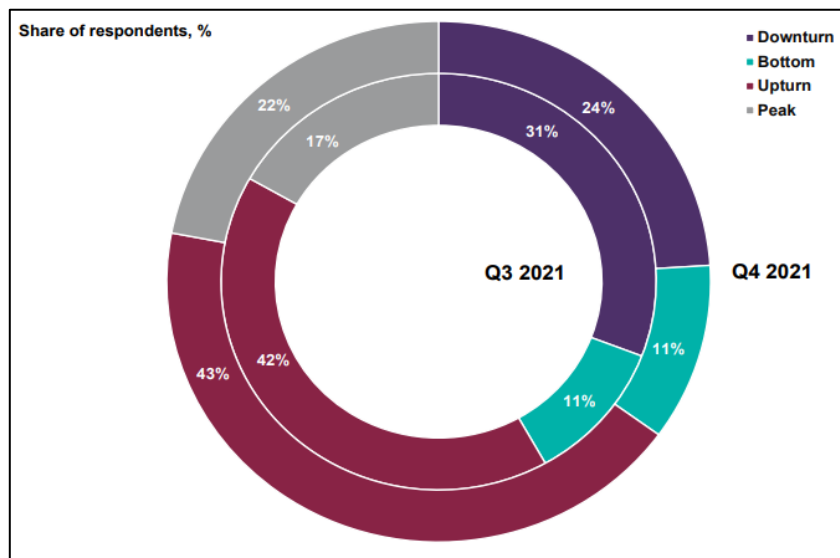
- Sentiment continues to improve into the year-end despite the spread of Omicron.

- Headline Global Property Sentiment Index (CPSI) edges up to best level since Q4 2019,
- Investment Sentiment Index shows stronger rise reflecting more material pickup in investor enquiries,

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- Expectations for rents and capital values at 12-month time horizon firmer compared with Q3.

**Chart 6: Perceptions on Phase of the Cycle:**



© RICS 2022

Source: RICS Economics Research: *RICS Global Property Monitors, Q4 2021*, London: RICS, p3 - Chart 6

The headline results of the Q4 RICS Global Commercial Property Monitor (GCPM) suggest that sentiment among professionals working in the real estate market actually improved in the final three months of last year (2021) despite concerns around the spread of the latest Covid variant. The aggregated (global) Commercial Property Sentiment Index (CPSI) improved for the sixth consecutive quarter returning to positive territory for the first time since the onset of the pandemic.

**Diminishing share of respondents see market in downturn**

One metric that RICS monitor closely is the perception of respondents to where their local market is in the real estate cycle. The global averages are evident in chart 6. The latest responses are not significantly different from the preceding ones and broadly reflect much of the other feedback to the survey. So, the share of contributors who believe the market to still be in a downturn or in the bottom phase of the cycle has dropped from 42% to 35%. By way of contrast, the proportion who view the market to be in an upturn is 43% (42% in Q3) and in the peak phase 22% (as against 17%). For the Americas, the share of respondents who perceive the market to be either in the downturn or bottom phase of the cycle has dropped to its lowest level since the series began in 2015.

[Read the latest RICS Global Commercial Property Monitor, Q4 2021 in full.](#)



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

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

### **Construction Industry highlights include – Construction output in Great Britain: February 2022.**

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

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

- Monthly construction output decreased by 0.1% in volume terms in February 2022, which was the first monthly decrease since October 2021; this follows an upwardly revised 1.6% increase in January 2022.

- Anecdotal evidence from returns received for the Monthly Business Survey for Construction and Allied Trades suggested the storms experienced between 16 and 21 February 2022 resulted in projects being delayed, as more working days were lost on sites and premises than normal for this time of the year.

- The decrease in monthly construction output in February 2022 came from a decrease in repair and maintenance (0.5%) as new work saw a slight increase of 0.1% on the month.

### **Read the full statistical bulletin, 'Construction output in Great Britain: February 2022.'**

#### **Also: Construction statistics, Great Britain: 2020**

- A wide range of statistics that are current available on the construction industry including the value of output, new orders by sector, number of firms and total employment, insolvencies and construction output price indices.

## Latest Statistics from HSE – Health and Safety Executive

### **Latest Key figures for Great Britain (2020/21)**

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

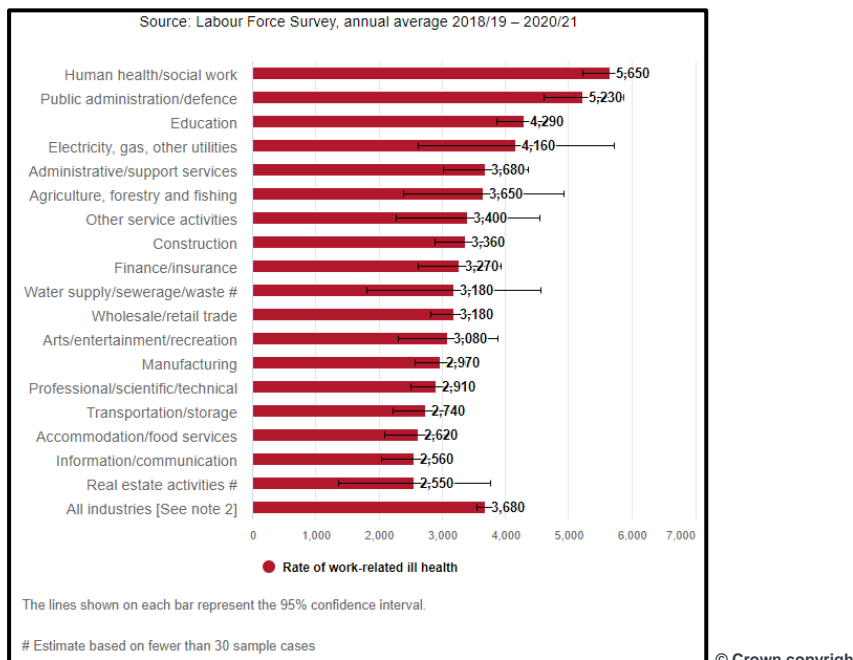
The chart below shows how the overall rates of self-reported work-related ill health and workplace injury vary between industry groups.

- While the chart shows the overall picture for each industry group, this may be masking differences at more detailed levels (for example, illness type or more detailed industry sub-groups).

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**From the Health and Safety Executive (HSE), ‘Self-reported work-related ill health’, and covering ‘Construction’:**

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



2022

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

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

**Access further information on health and safety statistics from HSE – Health and Safety Executive.**

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## Built Environment Research

### Latest Policy and Research from:

**1) Savills Impacts – Real estate investment in 2022: global outlook**

**- Market Trends: Savills.com, January 2022**

Savills examine the global trends and in-demand assets for 2022

### Sector investment outlook for 2022

- 2022 will be a turning point for retail, with repricing of recent years making the sector more competitive, at a time when retailers have better adapted to new ways of shopping. In much of Asia and in emerging markets, retail remains very much a core opportunity.

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- There is a potential in logistics in places where onshoring brings supply chains closer to home. Niches such as last mile have further to run.
- In the liquid and established office sector, the flight to quality will continue. Competition will be focused on assets that meet emerging environmental standards, while there is potential to redevelop or repurpose those that do not.
- Residential's rise will endure, a shortage of suitable stock driving forward funding strategies. There is potential in secondary cities as occupiers seek more affordable, liveable places.
- Ageing populations and an emphasis on health and wellbeing will support expansion in healthcare and senior housing, benefitting from long-term income potential.
- Data centres offer opportunity for portfolio diversification and there remains room for growth. Investors will be increasingly mindful of this sector's substantial environmental footprint, however.
- Life sciences offers significant potential for those with the know-how, with halo benefits for surrounding uses in knowledge hubs.

Decarbonising the real estate sector is an urgent and pressing need, a challenge that COP26 brought to attention. Consequently, Environmental, Social and Governance (ESG) considerations will increasingly define the investor agenda in 2022, and this year's COP27, held in Egypt, will only focus further on the issue.

More than ever before, cross-border investors in Europe are focusing on meeting ESG targets, with 'social', and 'governance' considerations driving investment decisions. This approach will only become more mainstream in 2022. In Europe, ESG is already actively shaping the assets and geographies in demand, a trend set to spread globally.

The looming challenge of bringing office stock up to new environmental standards is only one way we'll see this play out. Driven by both investors and occupiers, there will be opportunity to redevelop, reconfigure and repurpose stock that doesn't meet requirements.

### **Investment volumes**

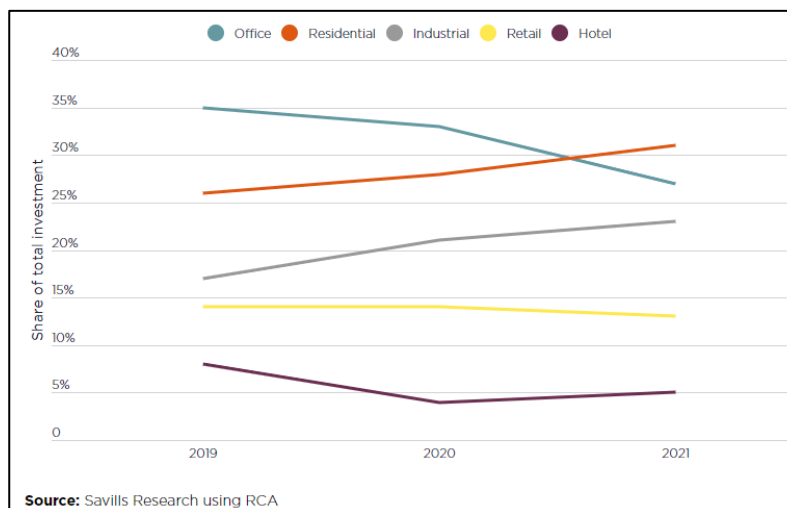
Real estate investment has shown resilience in the face of the pandemic. Global real estate investment volumes bounced back in 2021. Attractive among investors seeking diversified income streams, funds targeting real estate reached new highs last year, with more than 1,250 funds targeting \$365bn in capital between them, according to Preqin.

In the 12 months to November (2021), total real estate investment volumes were up by 38% on the same period the previous year. While office investment remains below pre-pandemic levels,

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volumes in the highly sought-after industrial sector are up 54%. We expect to see the strong performance of industrial to continue in 2022.

The big story for global real estate investment last year (2021) was that residential (namely multifamily, but also encompassing student and senior housing) became the largest sector for investment globally, overtaking offices for the first time (see chart, below – Share of total global real estate investment, by year).

**Share of total global real estate investment, by year**

Source: Savills (2022) *Market Trends: Real estate investment in 2022: global outlook* [online]. Available at: [www.savills.com/impacts/market-trends/real-estate-investment-in-2022-global-outlook.html](http://www.savills.com/impacts/market-trends/real-estate-investment-in-2022-global-outlook.html) [accessed 25 February 2022]

Investors are attracted to its secure, income generating qualities, underlying demand and resilience against technological disintermediation. Strong demand is likely to continue in 2022, but a dearth of standing stock means that development will be the entry point for many.

**Read the Market Trends – ‘The total value of global real estate’, in full.**

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

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

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

**Read Savills World cities prime residential forecasts**

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

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

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

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

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

### **UK Poverty 2022: The essential guide to understanding poverty in the UK**

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

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

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

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

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

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

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

**Also gain access to the following free downloads that include:**

**Findings:**

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

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**and the Full Report:**

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

**Related Links:**

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

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

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

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

**[JRF Spring Budget 2021 analysis](#)**

**[JRF Analysis of the 2020 Spending Review](#)**

### **3) The Smith Institute**

- The Smith Institute is a leading independent 'think tank' which promotes progressive policies for a fairer society. They provide a high-level forum for new thinking and debate on public policy and politics. Through research, reports, briefings, monographs, events, lecturers, education, and their website, the Institute offers a platform for thought leadership on a wide range of topics.

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

The Smith Institute (2021)

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

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

#### **What is just transition?**

A just transition is broadly interpreted as a policy approach to climate action which seeks to ensure that the benefits

The following components of a just transition to a net zero carbon economy were described to the inquiry:

- It is about moving to a net zero carbon economy in a just way for society – and thus combines environmental and social considerations.

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- It is about the fair distribution of climate 'goods' (such as new jobs and cleaner air) and climate 'bads' (such as higher costs associated with decarbonisation and job losses in certain sectors and places).
- It is about maximising the opportunities of a green economy and mitigating the risks.
- The social dimension is about workers, consumers, supply chains and communities.
- It is about both the process and the outcome: engaging and involving stakeholders to ensure that all social groups have support and opportunities in transitioning to a net zero carbon economy.
- It involves a planned and orderly transition.
- It is a global issue, affecting UK and international communities and supply chains.

Also covered in this research:

- The financial materiality of a just transition
- What can investors do? and
- What can government do?

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

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

Hunter P (2021)

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

This report seeks to take forward the work of the Foundation's 'Living Wage Places' initiative, focusing on how to maximise the benefits of the Living Wage in towns, cities and city-regions across the UK. Using evidence-based assumptions, the report examines and quantifies how much individuals gain, how that wage uplift is paid for and what the local economic impact is likely to be based on moving 25% of low paid workers up to the Living Wage.

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

**Planning for the recovery and the shift towards homeworking: implications for poverty in outer London**

Hunter P (2021)

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

The report acknowledges the devastating impact that the pandemic has had on the lives of outer London's five million residents – not least on people's health and well-being – but seeks mainly to understand the after-effects and explore the options for change.

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

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

September 2020

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

[Read the full piece of research, 'A National Housing Conversion Fund: buying properties to boost affordable housing supply'.](#)

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

July 2020

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

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

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

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



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### **Consumer Rights in the Private Rented Sector**

July 2020

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

[Read the full piece of research, 'Consumer Rights in the Private Rented Sector'.](#)

### **Making Housing Affordable after Covid-19: A follow up report from the Affordable Housing Commission**

Affordable Housing Commission (2020)

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

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

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

March 2020

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

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

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

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

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

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

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

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

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

*Setting the Bar* is the second and final report of the CSG and is an update of its Interim Report, *Raising the Bar* published in August 2019. The work was initiated by the recommendations in Dame Judith Hackitt's review *Building a Safe Future*.

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

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

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

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

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

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

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

**[Access \*Building Engineer\* website](#)**

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

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

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

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

- [RICS Fire Safety Hub](#) – read the latest guidance and development from RICS in the area of fire safety,
- [The future of BIM](#) – An overview of what BIM is and how it is evolving,
- **Data shared is a problem halved in cost management and project controls** – How are clients’ perspectives of the value of project cost management and project controls evolving?
- **Improving energy performance in both commercial and residential properties** – What kind of data and technology is now available to identify the best interventions for residential and commercial property?
- **Technology and data are enabling the adoption of IBOS and ESG** – How will stakeholders benefit from RICS’ new International Building Operation Standard (IBOS)
- **Valuing flexible workspace** – With more populations engaging with hybrid working, there is higher demand for flexible workspaces,

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

The quality of the built environment affects every member of society. As a professional body that represents the leaders and managers who work at every stage of the lifecycle of a construction project, The CIOB seek to influence government, industry and other stakeholders around the world with the aim of promoting the construction management discipline and addressing the challenges that the sector faces.

As of **April 2022**, the latest CIOB Policy and Research include:

- **Future of Construction research** – *Aiming the Construction Industry for the Future: Recruiting from the military into construction*. Also access the latest Future of Construction - [CIOB Policy Team Newsletter – January 2022](#) (4<sup>th</sup> February 2022)
- **Ethics research** – *Understanding Mental Health in the Built Environment; Construction and the Modern Slavery Act: Tackling Exploitation in the UK; The State of Well-being in the Construction Industry, and Building a Fairer System: Tackling modern slavery in construction supply chains,*
- **Economics and social impact research** – *The Real Face of Construction 2020: Socio-Economic Analysis of The True Value of The Built Environment*
- *Job Quality in the Irish Construction Sector* (22<sup>nd</sup> April 2021)
- **Education and skills research** – *Exploring the impact of the ageing population on the workforce and built environment*
- **The Wider Built Environment** – *Understanding the Value of Professionals and Professional Bodies.*

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

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

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

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

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

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

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

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

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

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

As of **April 2022**, the latest House of Commons Library, **Research publications** incl.

1. The crisis in Ukraines,
2. Manufacturing: Key Economic Indicators, and
3. National Insurance Constructions (Increase of Thresholds) Bill 2021-22.

### **Review House of Commons Library, Research for this week**

As of **April 2022** the latest **House of Commons Research:**

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

1. Skills and Post-16 Education Bill [HL]: Progress of the Bill,
2. Home education in England,
3. School buildings and capital funding (England),
4. University Strikes FAQs,
5. Universities Superannuation Scheme,
6. Professional Qualifications Bill [HL] 2021-22,
7. High education student numbers,
8. What could reforms to student finance mean for teachers and nurses? and
9. Estimates Day debate: Education.

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

1. The UK Shared Prosperity Fund
2. UK Shared Prosperity Fund: design and development,
3. Does the law set a minimum bedroom size in England?
4. Housing Market: Key Economic Indicators
5. Constituency data: house prices,
6. What is affordable housing?
7. Local growth funds,
8. General practice capacity for large-scale housing developments,
9. Leasehold reform in England and Wales: What's happening and when?
10. Freeholders' estate and service charges.

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

1. Food security,
2. Ukraine Crisis,
3. Rising cost of living in the UK,
4. COP26: Briefings for the 2021 conference, what were the outcomes of COP26?; and Wellbeing Economic approach to meeting climate change goals.

[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 (April 2022)**, 'What makes large housing projects successful?' – From Madrid to South Bronx, *Modus* explores seven of the world's most impressive housing estates to find the recipe for success.

Subject Terms/Keywords: Building control; Cities and placemaking; Economics; Facilities management; Housing; and Residential.

#### Latest articles within *Modus*:

- **Construction and COVID-19: how did the industry recover? –** Two years since the first national lockdowns were implemented, *Modus* asks experts from four continents how their region responded.

Subject Terms/Keywords: Building surveying; Economics; Health and safety; Project management; Running your business.

- **Fusion energy: nuclear but not as we know it –** Generating energy from the fusion process would be revolutionary – sustainable, renewable and carbon-neutral. Is it finally without our grasp?

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Subject Terms/Keywords: Energy; Land and resources; Project management; Research; Sustainability; Technology.

- **Can the EV revolution be kept on the road?** – Electric vehicles will hugely contribute to emission cuts but very few countries have the infrastructure in place to keep them charged.

Subject Terms/Keywords: Cities and placemaking; Energy; Facilities management; Infrastructure; Infrastructure and services; Residential.

- **Credit check: the problem with carbon offsetting** – Carbon credits were meant to mitigate pollution, but many schemes have few environmental benefits and disincentivise people from reducing their footprints. Can new regulations tackle greenwashing?

Subject Terms/Keywords: Environmental management; Environmental surveying; Ethical practice; Land and resources; Project management; Sustainability.

- **Building the future: young talent debate the need for change**  
- In the second part of *Modus's* podcast conversation, four RICS emerging talents discuss affordability, sustainability and new technology and innovations that the industry must embrace.

Subject Terms/Keywords: Commercial property; Corporate real estate; Learning and development; Project management; Quantity surveying and construction.

- **3D printed homes: how concrete went digital** – The speed and flexibility of 3D printing means that it is becoming an increasingly viable construction method. Could its low cost and flexibility help to solve the world's housing shortage?

Subject Terms/Keywords: Building surveying; Housing; Materials and resources; Residential; Technology.

- **How 'YIMBYism' can solve the housing shortage** – Campaigns to block developments are common but what if builders and residents could agree on plans? YIMBYs believe that everyone can benefit from a building boom.

Subject Terms/Keywords: Cities and placemaking; Dispute management

- **Buildings that elevated cities: The Pompidou Centre** – Does Paris' innovative 'inside out' building provide a ground-breaking arts playground or is it a grotesquely attention-seeking eyesore?

Subject Terms/Keywords: Building conservation; Building surveying; Cities and placemaking; Heritage and conservation.

- **Changing construction's throwaway culture** – Construction generates waste on an unprecedented scale, so how can the sector drop its unhealthy reliance on incineration and adopt

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more circular approaches such as upcycling?

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

- **Combining motherhood with a demanding job in property** – *Modus* speaks to Karen Ching MRICS, assistant director at Deloitte, about the challenges she's faced aiming for the top in her career while raising children.

Subject Terms/Keywords: Corporate real estate; Diversity and inclusion; Ethical practice; Planning and development; Project management; Projects and people.

- **The most-read stories of 2021 on *Modus*** – While COVID-19 has dominated the agenda, topics such as land reclamation have also proved very popular.

Subject Terms/Keywords: Marine environments; Cities and placemaking; Projects and people.

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, **April 2022 - Issue 466** focusing on – Levelling Up Fund Round 2 – Application Guidance; UK Shared Prosperity Fund details announced; Looking Ahead to The Queen's Speech. Also: **Engaging Digital Audiences**, available on the **HA project portal** - access webinars on diversifying digital audiences, how to plan great webinars, how to use exceptions to copyright in



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your digital activities & how to encourage your audience to create user-generated content.

**Institute of Workplace and Facilities Management (IWFM)**

*Facilitate*, the latest **March/April 2022** edition focus is on 'We are agents of change' – Cities can be opportunities for growth. As Covid-19 moves from pandemic to endemic, 'growing pains' are inevitable as we seek answers to multiple common challenges. And now, an altogether different crisis has emerged in the plight of Ukraine. As we hold those affected in our thoughts, we will consider how as individuals and as a profession we can respond.

**Contractors World International**,

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

**Subscriptions available via the VLE e-Library include:**

**Construction Information Service (CIS) Insight 2022**. The Latest Edition [**April 2022**] focuses on – **Retrofitting and Sustainability**, and covers -

- **What is sustainability construction?**
- **Retrofitting and reuse: proactive, adaptive, expansive, and**
- **Things to consider.**

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

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

**Henry Stewart Publications** and include the following e-Journals:

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

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

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

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

**Editorial:** Safeguarding social wellbeing in the foreseen future of hybrid working.

**Editorial thought pieces**

1. The end of corporate real estate - revisited
2. The workplace post-COVID-19: Embrace the new normal or back to the future?
3. Diversity, inclusion, and effective business transactions

**Practice papers**

4. Workforce segmentation: Connecting workplace supply and demand,
5. Corporate headquarters leasing: Key considerations for a post-pandemic workplace,
6. New data sources in the age of hybrid work
7. Real estate-as-a-service: The servitisation-led transformation of corporate real estate
8. Change from crisis: CRE and smart building technology – the power duo supporting the hybrid work model
9. The innovation deficit: The importance of the physical office post-COVID-19.

**Book review:**

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

**Other articles from *Corporate Real Estate Journal* (2021)**

11. Information strategy in view of FM-futures: The evolving role of information systems in FM,
12. Why and how Skanska applied for a WELL Health Safety Rating,
13. Future proofing legal workplace strategies and real estate footprint,
14. Strategy and portfolio planning and whether a hub and spoke model is realistic,
15. A real estate investment perspective on value-added tools for corporate real executives,
16. Hybrid space making: Rethinking the bank branch experience for the digital age,
17. Corporate headquarters leasing: Key considerations for a post-pandemic workplace,
18. Ways to turn uncertainty into opportunity in corporate real estate,
19. Experiences of work from home: The future of distributed work locations – A comparative empirical analysis between the U.S. and Germany,

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- 20. How data analytics and change management are transforming the future of workplace,
  - 21. Strategies for employee happiness and real estate optimisation in the post COVID office,
  - 22. Best practices of commercial management of parking assets for corporate real estate investors, and
- The innovation deficit: The importance of the physical office post COVID-19.

**Vol 11 (1) (2021-22)** of ***Corporate Real Estate Journal***  
**Vol 10 (4) (2020-21)** of ***Corporate Real Estate Journal***  
**Vol 10 (3) (2020-21)** of ***Corporate Real Estate Journal***.  
**Vol 10 (2) (2020-21)** of ***Corporate Real Estate Journal***, and  
**Vol 10 (1) (2020-21)** **Special issue: COVID-19, CRE and workplace response**

## HSTalks

© Henry Stewart Talks Ltd 2022

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

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

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

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



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This latest *Open Praxis* issue includes eight articles: seven research papers and one book review, authored by 21 researchers from six different countries: Brazil, South Africa, Austria, USA, Turkey, and Malaysia. Keywords: open education; distance education; OER, MOOC, e-learning; online education.

**Vol 13(3)**, that includes 7 research papers –

The first two papers present two qualitative studies developed in courses or modules taught at distance education universities. The next two papers are related to MOOCs, and then two research papers are tied to the COVID-19 pandemic and its impact on education.

Finally, the latest contribution is a book review undertaken by NorHafizah Ashar and M. Khalid M. Nasir (*Book Review of Evaluating Online Teaching: Implementing Best Practices*). The book was published in 2015 but gains relevance now that online education has become widespread.

**Research articles include:**

1. 'Assessment, Interaction and Technology in Distance Education: A Netnographic Study at a Brazilian Virtual University,
2. 'Fostering Symbiosis Between e-tutors and Lecturers of an English Studies Module at an Open Distance Learning University in South Africa,
3. 'OER Certification of Individuals and Organisation in Higher Education: Implementations Worldwide',
4. 'Systemic Tensions in the MOOC Design Cycle: An Activity Systems Analysis upon Implementing edX for Latin America and the Caribbean',
5. 'Surfing on Three Waves of MOOCs: An Examination and Snapshot of Research in Massive Open Online Courses',
6. 'A Classification Approach with Machine Learning Methods for Technical Problems of Distance Education: Turkey Example',
7. 'Faculty Support in Higher Education Provided by University Administration during Emergency Remote Teaching: A Case Study'.

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

(EURODL), an electronic, multi-media, open access journal. It publishes the accounts of research and presents scholarly work and solid information about open, distance, online and e-learning in technology-enhanced education and training in its most inclusive definition.

Published in the **Latest Issue of EURODL**, **Vol. 23 (2021): Issue 2 (Jan 2021)**, article titles include:

- 'Building Digital Capacity for Higher Education Teachers: Recognising Professional Development Through a National Peer Triad Digital Badge Ecosystem',
- 'Cultivating Self-Regulated Learning in Flipped EFL Courses: A Model for Course Design',

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- 'Transcript and Accessibility: Student Views from Using Webinars in Built Environment Education', by UCEM's Tharindu R. Liyanagunawardena
- 'Vector AR3-APP – A Good-Practice Example of Learning with Augmented Reality',
- 'Educators' Digital Competence in Swedish Rural Schools',
- 'Proposition for the Introduction of the Concept Telemathesis in Videoconferencing in Distance Education',
- 'Developing E-Authentication for E-Assessment'
- 'Diversity of Students Testing the System in Higher Education'.

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

The **Online Learning Consortium's** premier journal dedicated to the development and dissemination of new knowledge at the intersection of pedagogy, emerging technology, policy, and practice in online environments.

The OLC **Online Learning Journal**, latest edition, **OLJ 2022 Vol 26(1)**. This special issue is the first in OLC's 26<sup>th</sup> volume and contains a selection of papers advancing understanding of the Community of Inquiry (Col) model. Specifically, this special issue includes seven papers that develop new perspectives on conceptualizations and processes related to *cognitive presence*.

The first paper, by the pioneer of the Col framework, Dr. Randy Garrison, is a theoretical analysis on shared metacognition and its function within the community of inquiry theoretical framework. The next five papers in the issue are focused on empirical research that identify strategies to facilitate or analyse cognitive presence. These strategies include

1. self-regulation and co-regulation reflection strategies (Villanueva et al.),
2. case-based discussions and project-based collaborative learning (Ozogul et al.),
3. machine learning models and learning analytics (Lee et al.),
4. learning analytic-based elaboration feedback (Alwafi), and
5. a structured online peer evaluation system (Wilkinson).

The seventh and final paper in the special issue is focused on a systematic review that synthesized empirical research on ways to develop cognitive presence in online courses (Moore & Miller).

In addition to the special issue section, this issue of *Online Learning* also contains a series of articles accepted through our regular submission process. These articles examine MOOCs, blended learning, online instruction, remote education, and include additional research on other facets of Community of Inquiry framework.

Some of the articles include:

- 'Advances in Cognitive Presence: Introduction to OLJ Special Issue',
- 'Perceived and Actual Cognitive Presence: A Case Study of an Intentionally-Designed Asynchronous Online Course',
- 'Designing an Online Discussion Strategy with Learning Analytics Feedback on the Level of Cognitive Presence and Student Interaction in an Online Learning Community',
- "Simplicity is Key": Literacy Graduate Students' Perceptions of Online Learning.
- 'Fostering Cognitive Presence in Online Courses: A Systematic Review (2008-2020).

[ISSN: 2472 – 5730]

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

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

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

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## e-Book Review

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

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

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

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

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

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## Real Estate: The Basics

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

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

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

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

## Studying at a Distance

Talbot C (2010) *Studying at a Distance* [e-book]. Maidenhead: Open University Press, e-ISBN-13: 9780335238057

This essential guide provides practical help and support for those who have not previously studied at a distance and is ideal for students returning to study after a break. It covers fundamental issues such as motivation, goal setting, time management and coping strategies. Additional coverage in this edition includes specific information on the use of new technologies in distance learning; detailed coverage of referencing, citation, and plagiarism; description of using mind maps and other techniques for planning and writing essays or reports; support for disabled students, particularly those with dyslexia; and a further resources section.

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

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

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

## Directory of Open Access Books (DOAB)

The primary aim of DOAB is to increase discoverability of Open Access books.

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

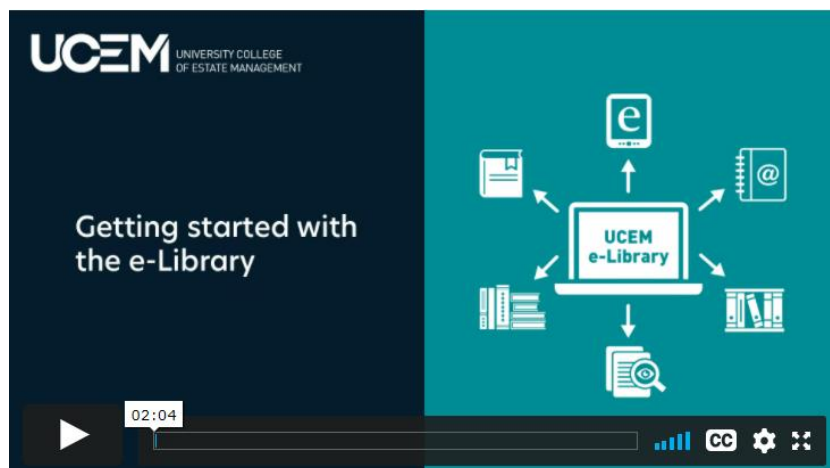
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## UCEM e-Library Portrait

### The aim of the e-Library

The aim of the e-Library is to:

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



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Source: UCEM (2022) *Getting started with the e-Library* [video], YouTube. Available at: [www.youtube.com/watch?v=iEg8DFUFiY&t=5s](https://www.youtube.com/watch?v=iEg8DFUFiY&t=5s) [accessed 31 March 2022].

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

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

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

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

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



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



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

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

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

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

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

The e-Library is here to help make finding up-to-date, credible, and relevant information easier. Access the [2022 e-Library interactive brochure](#) for further information.

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### **Emerald Insight – the online platform for Emerald Publishing**

Emerald champions new ideas in advancing the research and practice of business and management, and manages a portfolio of nearly 300 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.

**[April 2022]** - Here are some Open Access Journal articles available via Emerald, all around the theme of '**Online Teaching Pedagogy**'. **Note:** The following article examples are freely available via **Emerald Publishing Open Access:**

1. Mehta, R. and Aguilera, E (2020), 'A critical approach to humanizing pedagogies in online teaching and learning', **International Journal of Information and Learning Technology**, Vol. 37 No. 3, pp. 109-120. Emerald Publishing.
2. Nousheen, A. and Kalsoom, Q. (2022), 'Education for sustainable development amidst COVID-19 pandemic: role of sustainability pedagogies in development students' sustainability consciousness', **International Journal of Sustainability in Higher Education**, Vol. and No. ahead of print. Emerald Publishing Ltd.
3. Adi Badiozaman, I.F., Leong, H.J. and Wong, W. (2022), 'Embracing educational disruption: a case study in making the shift to a remote learning environment', **Journal of Applied Research in Higher Education**, Vol. 14 No. 1, pp. 1-15. Emerald Publishing Ltd.



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**Remember:**

“A Librarian is a powerful search engine with a heart, that listens and understands the library and information requirements of others and provides a response in a format that suits their needs” says Lucy Roper, UCEM Information Governance Manager and who can be contacted on the [library@ucem.ac.uk](mailto:library@ucem.ac.uk) email address

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## Student Career Services

### UCEM Career Services

UCEM Career Services is part of the Student Outreach Team and Student Services. They offer careers Information, Advice and Guidance (IAG) to potential, current and past students. The service is confidential, non-judgmental, and impartial.

[Access and read the UCEM Careers interactive brochure](#)

[Access UCEM Career Services](#)

### Building Better Property Professionals



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

[Property Elite](#) provides training and CPD services for property professionals, including students, APC candidates and corporate clients.

Their Hot Topic Highlight blog posts will arm you with the information on the hottest topics – ready to tackle an important client meeting or begin revising for your RICS APC final assessment.

[Back to top](#)**This month [April 2022] the Hot Top Highlight – RICS Responsible Business Framework**

In this latest blog article, Property Elite take a look at the RICS *Responsible Business Framework*. Note: This is essential reading for RICS APC and AssocRICS candidates in relation to Sustainability competency, as well as any candidates on the Facilities Management pathway.

**What is responsible business?** RICS define responsible business as '*operating efficiently and responsibly. It meets and exceeds legislation and always considers its impact on people (the workforce, community and society at large) and the environment*'.

**What is the Responsible Business Framework?** The RICS published the *Responsible Business Framework* in December 2021, leading on from their *Responsible Business Report* in 2019. The Framework is not mandatory guidance, but instead provides best practice guidance on responsible business for organisations of all sizes.

**What are the aims of the Framework?**

- To highlight best practice and provide useful content for the real estate management industry on how it should operate in a more responsible and ethical manner,
- To influence clients, landlords and owners/occupiers in their thinking, planning and expectations on services required,
- To provide clarity on the relationship with all stakeholders for improved engagement across the supply chain,
- To provide a global approach towards embedding environmental, social and governance (ESG), considerations into the management of real estate,
- To provide clarity on the terminology and definitions for responsible business and ESG,
- To highlight the important role that property, and the people and organisations involved in its management, can play in the creation of lasting social value.

**Further details and access to the Property Elite Hot Topic Highlight blog: RICS Responsible Business Framework.**

Also: [Property Elite Hot Topic Highlight blog: RICS Red Book Global 2022 Update](#), and [Access Property Elite's 'Building Better Property Professionals', Latest Blogs](#)

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

**Lucy's Top Tips** – If you are planning to sit your RICS APC/AssocRICS, make sure you are aware of Property Elite's APC Support services, including submission reviews, question

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packs, revision quizzes and e-mock interviews (available via the e-Library). You can also download this blog [in audio format](#) and listen whilst on the move. When you're done, you can request further information and a free CPD certificate.

### **Other related web-links**

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

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

[TARGETjobs](#) – All TARGETjobs graduate career guides and directories are available for you to view online and download for future reference and include [Explore Property](#), [Explore Engineering](#), [Engineering 2021](#), and [Careers Survival Pack](#).

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

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

### **Building People**

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



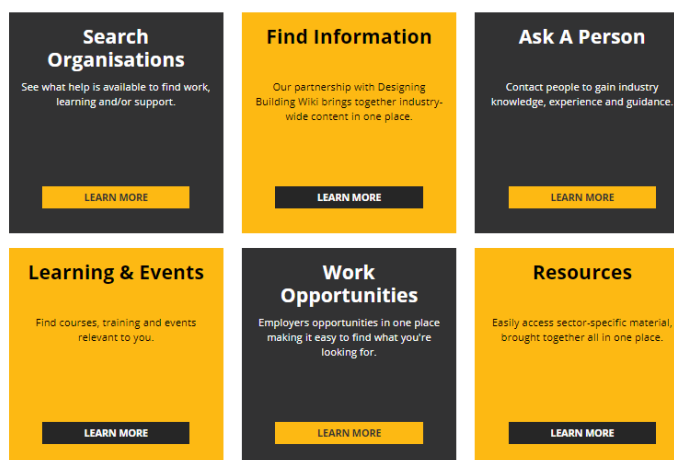
© UCEM 2021

The aim of 'Building People' was to create a technology platform and collaborative network, that enables connections and seeks to reduce the skills shortages across the Built Environment. 'Building People', a social enterprise that aims to connect people traditionally not involved in the Built Environment sector with employers seeking to plug the skills gap via an online platform.

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## People Wiki:

### What are you looking for?



© Building People 2021

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

People Wiki (a free, open access knowledge sharing platform for diversity and inclusion, skills and careers, and social value.) is a crucial part of Building People's ambition to create a single platform that brings together a multitude of previously fragmented information, knowledge, resources, opportunities, and needs focused on diversity and inclusion, skills and careers, and social value.

#### **Related Link:**

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

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

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

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

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

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

Access the article '[\*\*UCEM incubated social enterprise, Building People, becomes a fully-fledged success story\*\*](#)' in full.

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## UCEM Sustainability Hub

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

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

### Building Research Establishment (BRE) Sustainability

- Access BRE Sustainability: Practical guidance and support for delivering genuine sustainability benefits.

Greater sustainability and its many benefits can be achieved for all buildings, homes, organisations, and communities. The BRE provides leading edge information and advice on all aspects of sustainable that include – Sustainable construction of buildings, Communities, Infrastructure, Sustainable organisations, Materials, products and services, Waste management, Energy management services, and Training and publications.

[Access BRE Sustainability](#)

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## The Routledge Sustainability Hub

The Routledge Sustainability Hub is an innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability.

[Access the Routledge Sustainability Hub](#)

## The Green Agenda

Within the Savills Market Trends – ‘Real estate investment in 2021: global outlook’ (mentioned earlier within this issue of *Knowledge Foundations*) they covered ‘The Green Agenda’ Despite the challenges of 2020, the rising importance of environmental, social and governance (ESG) credentials for investors has continued to grow.

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

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

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

## UCEM signs up to CIC’s new ‘carbon zero’ climate action plan

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

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



**CIC** BUILT ENVIRONMENT PROFESSIONALS TOGETHER

### Carbon Zero: the professional institutions' climate action plan

The signatories to this Action Plan agree that:

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

© CIC 2021



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

To read the plan, head to the [CIC news story – 'CIC launches a Carbon Zero climate action plan for Professional Institutions'](#).

[Access the article 'UCEM signs up to CIC's new 'carbon zero' climate action plan' in full.](#)

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



[Image: courtesy Ed Hawkins]

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

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

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

The government is already working towards its commitment to reduce emissions in 2030 by at least 68% through the UK's latest Nationally Determined Contribution. The latest announcement builds on this goal to achieve a 78% reduction by 2035. The new target will become enshrined in law by the end of June 2021.

- **Raising the bar on tackling climate change**
- **Government must clearly map out how it plans to tackle the carbon emissions'**

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

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

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

[Access China Dialogue reports online.](#)

## QSAND and the Sustainability Goals

The UN Sustainable Development Agenda, adopted by world leaders in 2015, maps out a 15-year plan to fight inequality, end poverty and tackle climate change challenges.

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

### Libraries' contribution to SDGs

**Agenda Vision:** Universal literacy

**Goal 3:** Good health and wellbeing

**Goal 4:** Contribution to quality education

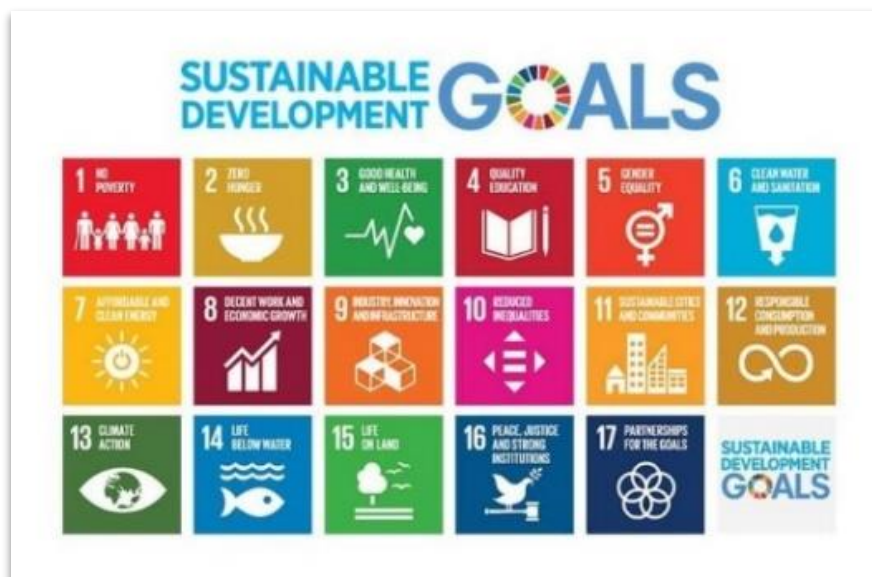
**Goal 5:** Culture

**Goals 5, 9, 7:** ICT skills and access

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

**Goal 16:** Access to information

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



([UN.org](#) 2022)

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

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

This can be avoided by following two simple rules:

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

(Connors State College 2022)

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

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

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

This book takes an unflinching look at climate change, drawing upon the latest data to analyse what the next decades hold in store. With atmospheric CO<sub>2</sub> at unprecedented levels and insufficient action being taken to prevent a rise in temperatures above 2 degrees centigrade, we are not just looking at significant disruption but the possibility of societal collapse. For the first time ever, the magnitude of this challenge is faced head on, with avenues to truly address it presented. Case studies and models from 16 authors around the world show ways that we can build adaptation and resilience, as well as what 'zero emissions' really mean. The book also provides a platform for those from a range of diverse backgrounds, whose unique experience and knowledge brings vital new perspectives.

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

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## Information Governance

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

### Information Governance:



© 2020 iStockphoto LP. Royalty free

[image](#)

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

### Data Protection

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

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

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

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

### Latest Data Protection News [April 2022]

#### **BBC News: Island children's details sent out in data breach**

- Personal data identifying dozens of children has been shared by a council in an email. The Isle of Wight Council email included an attachment with personal details of 90 families. **Keywords** include – [Data Breaches](#).

[Access the BBC News article, 'Isle of Wight children's details sent out in data breach', in full.](#)

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

31 March 2022 – **ICO fines company for sending thousands of spam text messages during the pandemic.** ICO has fine a company £80,000 for sending hundreds of thousands of unsolicited direct marketing text messages to people who had not consented to receive them.

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

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

**Access the Information Commissioner’s Office, ‘News, blogs, and speeches’ section of their website**

**Further information, advice, and guidance (IAG) provided by the ICO**

The ICO publish detailed IAG on:

- **Guidance on direct marketing and the public sector** (ICO, August 2021)
- **Sharing personal data with law enforcement authorities,**
- **Data sharing and reuse of data by competent authorities for non-law enforcement purposes,**
- **The Accountability Framework.** (ICO, September 2020),
- **Codes of conduct and certification schemes.**(ICO, February 2020)
- When using data analytics on personal data, the ICO is urging all organisations to look at its toolkit. It can be found at **ICO > For Organisations > Toolkit for organisations considering using data analytics**. (ICO, February 2021)
- **Freedom of Information Self-assessment toolkit** launched in 2020 helps identify gaps in compliance.
- Further updates have been made to **guidance for handling Subject Access Requests** including a **step-by-step guide for small businesses**
- **Building a controller-to-controller contract** + template contract with guidance

**ICO What’s new? [April 2022]**

The Information Commissioner’s Office (ICO) website has a ‘What’s new’ section that is updated on a regular basis to highlight and link to any changes in their **ICO Guide to Data Protection** as they occur, for example: In April 2021 – The ICO have published guidance on the **National Security Provisions** in Part 3 of the DPA18 and updated the **Guide to Intelligence Services Processing**.

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The ICO have published:

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

**January 2021** - Updated BCR communication following the EU-UK Trade and Co-operation Agreement to the [International transfers after the UK exit from the EU Implementation Period](#).

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

**Further guidance provided by the ICO.**

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

## Copyright



© iStock (2021)

“It is important to remember that Copyright material in digital form is protected in exactly the same way as Copyright material in any other format. For example, text and images on a website are protected by copyright in the same way as printed material. Please note: if there is something you really want to use for learning materials and someone else owns the copyright ... [permission must be sought!](#)”

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

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

***Introducing Copyright: A plain language guide to Copyright in the 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'**

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

### **CLA Title Search tool**

The [CLA Title Search tool](#) is an online search tool that lets you quickly find out what you can copy under your organisation's CLA licence. Whether you'd like to photocopy and distribute an article to colleagues or upload a report to an intranet or VLE, the CLA Title Search simplifies the steps required to ensure compliance.

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

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

### **Latest Copyright News [April 2022]**

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

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

Several companies have criticised the law, which would hold them accountable for not removing copyrighted content uploaded by users if it is passed. EU member states had until 7 June 2021 to implement the new reforms, with UK having left the EU by then.

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

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

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

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

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[Access the GOV.UK 'Changes to copyright law from 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](#), held in November 2021. *Source:* CLA (2021) [UCEM e-Library: Our story so far](#), a presentation given at the Winter 2021 CITE Forum [video], YouTube. Available at: [www.youtube.com/watch?v=GmuENZHeGO0&feature=youtu.be](http://www.youtube.com/watch?v=GmuENZHeGO0&feature=youtu.be) [accessed 26 April 2022]. **Ref: From 58:05 until 1.28:41.**

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

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

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

### CILIP's National Copyright Conference 2021

This national conference was held on 10<sup>th</sup> May and in association with Naomi Korn Associates, as well as great speakers and further experts in the field in attendance. This conference provided an opportunity to delve deeper into copyright issues and gain a better.



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understanding of how policy impacts on libraries and the information sector and covered the following:

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

Sessions covered broad copyright impact for the profession incl.

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

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

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

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

- **Exceptions to Copyright**

In this talk, *Dr Jane Secker*: Senior Lecturer in Educational Development, City, University of London, and *Chris Morrison*: Copyright and Licensing Manager, University of Kent spoke about the ways in which educational establishments have addressed copyright issues associated with the shift to online learning. They discussed the importance of educational exceptions as a vital supplement to the use of licensed resources to enable the use of images, printed materials, and audio-visual content to teach online.

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- **Open Access and Plan S**

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

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

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

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

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

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

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

Europeana aggregates and displays digital cultural heritage from across Europe and beyond, and as such, is in touch with the diverse copyright challenges faced at the national level by cultural heritage institutions. During this session, **Ariadna Matas**: *Policy*

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*Advisor, Europeana Foundation.* will briefly introduce how Europeana showcases and uses digital cultural heritage, its central licensing system, the standardised tools that Europeana relies on, what the coming changes such as the CDSM Directive might bring to challenges that are left to be solved.

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

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

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

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

**Note:** [CILIP National Copyright Conference 2022 – 18<sup>th</sup> May 2022](#)

[#CILIPCopy22 / #copyright](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

Please note: There are regular updates -

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

**#BE Informed**

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

**“Perseverance will get you anywhere.”**

@NASAPersevere / #NASAPersevere

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### A

**Advance HE** (Previously HEA – Higher Education Academy) is dedicated to helping higher education shape its future. Providing insight, enhancing organisational performance, developing, and connecting people, and accrediting achievements. Advance HE [online]. Further information is available at: [www.advance-he.ac.uk](http://www.advance-he.ac.uk) [accessed 26 April 2022]

**American Society of Civil Engineers** (ASCE) Civil Engineering database provides free access to over 80 thousand abstracts taken from ASCE publications since 1973. ASCE [online]. Further information is available at: [www.asce.org](http://www.asce.org) [accessed 26 April 2022]

**Association of Researchers in Construction Management** (ARCOM) brings together all those interested in construction management research. It aims to further the advancement of knowledge in all aspects of management in construction by support education, dissemination, and research. ARCOM [online]. Further information available at: [www.arcom.ac.uk](http://www.arcom.ac.uk) [accessed 26 April 2022]

**AJ Buildings Library** (AJBL) – The AJ Buildings Library showcases thousands of exemplar projects, most from the last 20 years but including major projects back to 1900. Available at: [www.ajbuildingslibrary.co.uk](http://www.ajbuildingslibrary.co.uk) [accessed 26 April 2022] (This valuable resource is just one part of the *Architects' Journal* subscription, available via the VLE e-Library > OpenAthens Library login > Construction Information Service (CIS) and/or EBSCO Business Source Premier).

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

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

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### B

**BBC Education** [online]. Further information available at: [www.bbc.co.uk/news/education](http://www.bbc.co.uk/news/education) [accessed 26 April 2022]

**BBC Search** [online]. Further information available at: [www.bbc.co.uk/search](http://www.bbc.co.uk/search) [accessed 26 April 2022]

**BIDSTATS** [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: <https://bidstats.uk/> [accessed 26 April 2022]

**BIM Task Group** – The Building Information Modelling (BIM) Task Group support and develop the objectives of the Government Construction Strategy and the requirement to strengthen the public sector's capability in BIM implementation [online]. **N.B.** This group and programme are now part of the University of Cambridge, **Centre for Digital Built Britain (CDBB)** [online]. Further

information is available at: [www.cdbb.cam.ac.uk/AboutDBB/FAQs](http://www.cdbb.cam.ac.uk/AboutDBB/FAQs) [accessed 26 April 2022]. Please refer to question 9 – What is the Digital Built Britain Programme? specifically.

**BIMForum** – The BIMForum’s mission is to facilitate and accelerate the adoption of building information modelling (BIM) in the AEC (Architecture, Engineering and Construction) industry. Further information is available via the BIMForum Website [online] and at: <http://bimforum.org> [accessed 26 April 2022]

**BOMA International** (Building Owners and Managers Association International) – a federation of 91 BOMA U.S. associations and 17 international affiliates. Founded in 1907, BOMA’s mission is to advance a vibrant commercial real estate industry through advocacy, influence, and knowledge. **BOMA Research and Resources** [online] and available at: [www.boma.org/BOMA/Research-Resources](http://www.boma.org/BOMA/Research-Resources) [accessed 26 April 2022]

**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 26 April 2022]

**British Council of Shopping Centres** (BCSC) was the professional body and authoritative voice for retail-led regeneration and for the management of and investment in shopping places [online]. Note: BCSC has changed and is now **REVO – Retail. Property. Community.**

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

**British Property Federation** (BPF) – The British Property Federation is a membership organisation devoted to representing the interests of all those involved in real estate ownership and investment. BPF [online]. Further information available at: <https://bpf.org.uk> [accessed 26 April 2022]

**Building Conservation.com** [online] – Information resources for conservation, restoration, and repairs. Further information is available at: [www.buildingconservation.com](http://www.buildingconservation.com) [accessed 26 April 2022]

**Building Conservation.com Articles directory by subject** [online]. Available at: [www.buildingconservation.com/articles/articles.htm](http://www.buildingconservation.com/articles/articles.htm) [accessed 26 April 2022]

**Building Design Directory** [online] – provides construction and environmental products / services / information for Architects, Engineers and Facility Managers. Further information is available at: [www.buildingdesign.co.uk](http://www.buildingdesign.co.uk) [accessed 26 April 2022]

**Building Engineer** [online] – Building Engineer website covers news and insights from the following topics: Building & Fire Safety; Business & Management; Construction & Building Materials; Energy & Sustainability; Health, Safety & Wellbeing; Policy & Regulations; Refurbishment; Technology & Digital Construction. Further information is available at: [www.buildingengineer.org.uk/](http://www.buildingengineer.org.uk/) [accessed 26 April 2022]

**Building People** - a technology platform and collaborative network, that enables connections and seeks to reduce the skills shortages across the Built Environment. Building People [online]. Further information is available at: [www.buildingpeople.org.uk](http://www.buildingpeople.org.uk) [accessed 26 April 2022]

**Building Research Establishment** (BRE) [online] is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries. Further information available at: <https://bregroup.com/about-us> [accessed 26 April 2022]

**BRE A-Z of BRE Services** (from Accreditation to Zero Carbon) [online]. Further information is available at: [www.bregroup.com/a-z](http://www.bregroup.com/a-z) [accessed 26 April 2022]

**BRE Case Studies** [online]. Further information is available at: [www.bre.co.uk/podpage.jsp?id=1744](http://www.bre.co.uk/podpage.jsp?id=1744) [accessed 26 April 2022]

**Building Services Research and Information Association** (BSRIA) [online]. BSRIA is a test, instrumentation, research, and consultancy organisation, providing specialist services in construction and building services. Available at: [www.bsria.co.uk](http://www.bsria.co.uk) [accessed 26 April 2022]

**Building talk** [online]. Available at: [www.buildingtalk.com](http://www.buildingtalk.com) [accessed 26 April 2022] *Building Talk* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

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## C

**Campaign to Protect Rural England** (CPRE) campaign for a beautiful and living countryside. They work to protect, promote, and enhance our towns and countryside to make them better places to live, work and enjoy, and to ensure the countryside is protected for now and future generations. CPRE [online]. Available at: [www.cpre.org.uk](http://www.cpre.org.uk) [accessed 26 April 2022]

**CBRE Research and Resources** - CBRE sets the standard for global real estate research by providing clients with accurate and insightful market knowledge. CBRE [online]. Available at: [www.cbre.com/research-and-reports](http://www.cbre.com/research-and-reports) [accessed 26 April 2022]

**CPRE Resources** provides the latest news articles, policy guidance notes, published reports and research surrounding the following - Countryside, Farming and food, Housing and planning, Energy and Waste, and Transport. CPRE Resources [online]. Available at: [www.cpre.org.uk/resources](http://www.cpre.org.uk/resources) [accessed 26 April 2022]

**Centre for Architecture and Built Environment Research** (CABER) seeks to develop innovative approaches, procedures, technologies, and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric, and the environments they create. Note: CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online] and available at: [www1.uwe.ac.uk/et/research/caber.aspx](http://www1.uwe.ac.uk/et/research/caber.aspx) [accessed 26 April 2022]

**The Center for Construction Research and Training** (CPWR) is dedicated to reducing occupational injuries, illnesses, and fatalities in the construction industry through research, training, and service programs. CPWR [online] and available at: [www.cpwr.com](http://www.cpwr.com) [accessed 26 April 2022]

**Centre for Digital Built Britain** (CDBB) is a partnership between the Department of Business, Energy & Industrial Strategy, and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain, and use our social and economic infrastructure. CDBB [online]. Available at: [www.cdbb.cam.ac.uk/AboutDBB](http://www.cdbb.cam.ac.uk/AboutDBB) [accessed 26 April 2022]

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

**CSE Resources** [online] include - Reports & publications, Toolkits, Advice leaflets, Websites, *Energise* newsletter, Videos on The fundamentals, Improving your community building, Community-wide energy saving projects, Neighbourhood and low carbon planning, Renewable energy projects, and further Resources for schools and educators. Available at: [www.cse.org.uk/local-energy/resources](http://www.cse.org.uk/local-energy/resources) [accessed 26 April 2022]



**Chartered Association of Building Engineers** (CABE) is a member-focused non-profit organisation. CABE shares knowledge, raises standards, and develops professionals, enabling a professional construction sector that works to create better, safer, and more sustainable buildings that enhance people's lives. CABE [online]. Available at: <https://cbuide.com/> [accessed 26 April 2022]

**Chartered Institute of Building** (CIOB) [online]. The Chartered Institute of Building is the international voice of the building professional, representing an unequalled body of knowledge concerning the management of the total building process. Available at: [www.ciob.org](http://www.ciob.org) [accessed 26 April 2022]

**Chartered Institution of Building Services Engineers** (CIBSE) – the prime source of expertise in the Building Services Industry. CIBSE [online]. Available at: [www.cibse.org](http://www.cibse.org) [accessed 26 April 2022]. N.B. Within the CIBSE website you can '**CIBSE - Search the Knowledge Portal**' covering themes such as BIM, Building Regulations, FM, Facades, Fire Safety, Lighting and Heating, Management, and project management, Residential, Sustainability, and more.

**China Dialogue** [online] – China and the world discuss the environment. Available at: [www.chinadialogue.net](http://www.chinadialogue.net) [accessed 26 April 2022]

**CIBSE Journal** [online]. Available at: [www.cibsejournal.com](http://www.cibsejournal.com) [accessed 26 April 2022].

**CIOB Library** Incl. Library and Information Services [online]. Available at: [www.ciob.org/library](http://www.ciob.org/library) [accessed 26 April 2022]

**CIOB BIM+** online newsletter [online]. Available at: [www.bimplus.co.uk](http://www.bimplus.co.uk) [accessed 26 April 2022]

**CIOB's Construction Management journal** (formerly *Construction Manager*) [online]. Available at: <https://constructionmanagement.co.uk/> [accessed 26 April 2022]

**CIOB's Global Construction Review journal** [online]. Available at: [www.globalconstructionreview.com/](http://www.globalconstructionreview.com/) [accessed 26 April 2022]

**CIOB's Policy and Public Affairs portal** [online]. Available at: [www.ciob.org/industry/policy-research](http://www.ciob.org/industry/policy-research) [accessed 26 April 2022]

**The CIT-eA Project Creating Innovative Technology – Enhanced Assessments** – a research project that explored ways to increase the number of assessments in Further and Higher Education using technology. The CIT-eA Project [online]. Available at: <http://citea.digitalinsite.co.uk> [accessed 26 April 2022]

**Cities / buildings images database** [online]. Available at: [www.washington.edu/ark2](http://www.washington.edu/ark2) [accessed 26 April 2022] is a collection of images of buildings and cities from around the world aimed at students, researchers, and educators.

**C-Link** is a procurement software company who also provide resources (incl. guides, eBooks, and other materials) created to help you make more money on your construction project. C-Link [online]. Available at: [www.C-Link.com](http://www.C-Link.com) [accessed 26 April 2022]

**Commercial Real Estate Services** (CBRE) is the world's largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally. CBRE [online]. Available at: [www.cbre.co.uk](http://www.cbre.co.uk) [accessed 26 April 2022]

**Community-Led Housing** (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 26 April 2022]. This Toolkit provides a wealth of technical and non-technical information on a broad range of issues relevant to CLH. There are five Toolboxes, covering (i) Housing (ii) Communities (iii) Legal (iv) Planning and (v) Finance.

**Confederation of British Industry** (CBI) is the UK's premier business lobbying organisation, providing a voice for employers at a national and international level. CBI [online]. Available at: [www.cbi.org.uk](http://www.cbi.org.uk) [accessed 26 April 2022]

**Conference on Training in Architectural Conservation** (COTAC) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals, and homeowners. COTAC [online]. Available at: <http://ihbconline.co.uk/cotac2> [accessed 26 April 2022]

**COTAC Digital Bibliography** [online]. Available at: [http://cotac.global/digital\\_bib/](http://cotac.global/digital_bib/) [accessed 26 April 2022]

**Constructing Excellence** (delivered with **bre**) is a platform for industry improvement to deliver excellence through clients, industry, and users through collaborative working. Resources include publications, tools, and newsletter. Constructing Excellence [online]. Available at: <http://constructingexcellence.org.uk/> [accessed 26 April 2022]

**Construction Enquirer** is a news website in construction. Construction Enquirer [online]. Available at: [www.constructionenquirer.com](http://www.constructionenquirer.com) [accessed 26 April 2022]

The **Construction Index** [online] provides a wide range of information services for the UK construction industry, that include a search engine of construction companies, daily construction news, market data, email newspaper letter, and Case Law analysis and legal commentary. Further information is available at: [www.theconstructionindex.co.uk](http://www.theconstructionindex.co.uk) [accessed 26 April 2022].

**Construction Industry Council** (CIC) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry. CIC [online] and available at: <http://cic.org.uk> [accessed 26 April 2022]

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 26 April 2022]

**Construction Industry Training Board** (CITB) is the training board for the construction industry and partner in Construction Skills, the Sector Skills Council. CITB [online]. Available at: [www.citb.co.uk](http://www.citb.co.uk) [accessed 26 April 2022]

**Construction Manager** is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: [www.constructionmanagemagazine.com/](http://www.constructionmanagemagazine.com/) [accessed 26 April 2022]

**Construction News** [online]. Available at: [www.constructionnews.co.uk](http://www.constructionnews.co.uk) [accessed 26 April 2022]

**Construction Products Association** (CPA) represents the UK's manufacturers and distributors of construction products and materials. Construction Products Association [online]. Further information is available at: [www.constructionproducts.org.uk](http://www.constructionproducts.org.uk) [accessed 26 April 2022]

**Construction Project Information Committee** (CPIC), responsible for providing best practice guidance on the content, form, and preparation of construction production information, and making sure this best practice is disseminated throughout the UK construction industry. CPIC [online]. Available at: [www.cpic.org.uk](http://www.cpic.org.uk) [accessed 26 April 2022]

**Construction and Property Research Centre** (CPRC), University of the West of England (UWE) – the CPRC's research activity is focused around the three inter-related stages of the built environment lifecycle, namely design, construction, and maintenance. Note: The UWE **Centre for Architecture and Built Environment Research** (CABER) now incorporates the CPRC.

**Contractors World** magazines (incl. *Contractors World International* and *Contractors World UK & Ireland*) are the leading international digital publications. Delivering site reports, equipment

reviews and comments of interest on the construction, mining, quarrying and related industries. Contractors World [online]. Available at: <http://cwmags.com/> [accessed 26 April 2022].

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

**Copyright Licensing Agency (CLA)** [online]. The CLA are a licensing body as defined by the Copyright, Designs and Patents Act 1988 c.48 (as amended) ["CDPA"]. The CLA licence organisations to copy and re-use extracts from print and digital publications on behalf of copyright owners. Available at: [www.cla.co.uk](http://www.cla.co.uk) [accessed 26 April 2022]

**Council for British Archaeology (CBA)** is an independent charity bringing together members, supporters, and partners to give archaeology a voice and safeguard it for future generations. Archaeology for all [online]. Available at: <http://new.archaeologyuk.org> [accessed 26 April 2022]

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## D

**Delta T** [online] is the Building Services Research and Information Association's quarterly journal.

**Designing Buildings Wiki** [online] and available at: [www.designingbuildings.co.uk/wiki/Home](http://www.designingbuildings.co.uk/wiki/Home) [accessed 26 April 2022] is an industry-wide, cross-discipline forum for finding and sharing information.

**Designing Buildings Wiki – Student resources** [online] and available at: [www.designingbuildings.co.uk/wiki/Student\\_resources](http://www.designingbuildings.co.uk/wiki/Student_resources) [accessed 26 April 2022] has a wide range of resources aimed at students of the built environment, as shown here.

**Designing Buildings Wiki – Construction industry acronyms** [online] and available at: [www.designingbuildings.co.uk/wiki/Construction\\_industry\\_acronyms](http://www.designingbuildings.co.uk/wiki/Construction_industry_acronyms) [accessed 26 April 2022] providing a list of commonly used construction industry acronyms.

The **Design Council** [online] champions great design that improves lives and makes things better and available: [www.designcouncil.org.uk](http://www.designcouncil.org.uk) [accessed 26 April 2022]. See also [Inclusive Design Hub for the Built Environment](#) (a project of The Design Council).

**Directory of Open Access Books (DOAB)** is a service which harvests details of academic and mainly peer-reviewed books published on open access. DOAB [online]. Available at: [www.doabooks.org/doab](http://www.doabooks.org/doab) [accessed 26 April 2022]

**Directory of Open Access Journals (DOAJ)** covers all open access scientific and scholarly journals, using a quality control system to guarantee the content. DOAJ [online]. Available at: <https://doaj.org> [accessed 26 April 2022]

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## E

**Education and Employers Research** - Online research library marks its tenth anniversary. This online library provides a comprehensive repository of different and effective approaches to employer engagement and careers education. It brings together the latest thinking with selected research published over the past 40 years. Education and Employers [online]. Available at: [www.educationandemployers.org/research-type/research-library](http://www.educationandemployers.org/research-type/research-library) [accessed 26 April 2022]

**The Economics Network** [online] provides publications, events, and other resources to support university teachers of economics throughout the UK and worldwide. Available at: [www.economicsnetwork.ac.uk](http://www.economicsnetwork.ac.uk) [accessed 26 April 2022]

**EngineeringUK** is a not-for-profit organisation, which works in partnership with the engineering community to inspire tomorrow's engineers and increase the number and diversity of young people choosing academic and vocational pathways into engineering. EngineeringUK [online]. Available at: [www.engineeringuk.com](http://www.engineeringuk.com) [accessed 26 April 2022]

**Engineering and Physical Sciences Research Council** (EPSRC) is the main UK government agency for funding research and training in engineering and the physical sciences, investing more than £800 million a year in a broad range of subjects – from mathematics to materials science, and from information technology to structural engineering. EPSRC [online]. Available at: [www.epsrc.ac.uk](http://www.epsrc.ac.uk) [accessed 26 April 2022]

**English Heritage** cares for over 400 historic buildings, monuments, and sites – from world-famous prehistoric sites to grand medieval castles, from Roman forts on the edges of the empire to a Cold War bunker. English Heritage [online]. Further information is available at: [www.english-heritage.org.uk](http://www.english-heritage.org.uk) [accessed 26 April 2022]. Note: English Heritage has now separated into two organisations. If you are looking for information on listing, planning, grants or heritage research and advice, please visit **Historic England**.

**Estates Gazette** The UK's largest commercial property news team. *Estates Gazette Interactive* [online]. Available at: [www.egi.co.uk](http://www.egi.co.uk) [accessed 26 April 2022] incl. ***Estate Gazette, News from the nationals*** – Round-up of the top property stories with quick links.

**European Real Estate Society** (ERES) was established in 1994 to create an international real estate network between academics and professionals across Europe. ERES [online]. Further information is available at: [www.eres.org](http://www.eres.org) [accessed 26 April 2022].

**ERES Digital Library** [online] and available at: [www.eres.org/index.php/activities/libraryeres](http://www.eres.org/index.php/activities/libraryeres) [accessed 26 April 2022]

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## G

**Great Buildings** [online]. Available at: [www.greatbuildings.com](http://www.greatbuildings.com) [accessed 26 April 2022] provides a database of buildings around the world and across all historic periods. You can search the database by building names, place, or architect name. It provides access to 3D models, photographic images, and architectural drawings.

**Glenigan** [online]. Available at: [www.glenigan.com](http://www.glenigan.com) [accessed 26 April 2022] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

**Global Research Gateway**: CBRE's online resource for real estate research and reports. CBRE Global Research Gateway [online]. Available at: [www.cbre.com/research-and-reports](http://www.cbre.com/research-and-reports) [accessed 26 April 2022]

**Global Construction Review** – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at [www.globalconstructionreview.com](http://www.globalconstructionreview.com) [accessed 26 April 2022]

**The Green Construction Board** (GCB) is a consultative forum consisting of key members of UK construction and property industry. GCB [online]. Further information is available at: <https://cic.org.uk/projects/project.php?s=green-construction-board> [accessed 26 April 2022]

**The Guardian, Housing network** – providing insight, advice, and best practice from your community. The Guardian, Housing network [online]. Further information is available at: [www.guardian.co.uk/housing-network](http://www.guardian.co.uk/housing-network) [accessed 26 April 2022]

**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 26 April 2022]

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## H

**Health and Safety Executive (HSE)** is the national independent watchdog for work-related health, safety, and illness. HSE are an independent regulator and act in the public interest to reduce work-related death and serious injury across Great Britain's workplaces. HSE [online]. Available at: [www.hse.gov.uk/index.htm](http://www.hse.gov.uk/index.htm) [accessed 26 April 2022]

**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 26 April 2022]

**HSE Publications** [online]. Available at: [www.hse.gov.uk/pubns/index.htm](http://www.hse.gov.uk/pubns/index.htm) [accessed 26 April 2022]

**Heritage Alliance** - The largest coalition of heritage interests in England, the Heritage Alliance is the umbrella body for national and major regional Heritage NGOs. Heritage Alliance [online]. Available at: [www.theheritagealliance.org.uk](http://www.theheritagealliance.org.uk) [accessed 26 April 2022]

**Heritage Update: the online edition** of the fortnightly Heritage Alliance's **Heritage Update** e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update](http://www.theheritagealliance.org.uk/update) [accessed 26 April 2022]

**Heritage Help** - Created by the Joint Committee of the National Amenity Societies, Heritage Help offers information and advice on matters related to the management and protection of local historic environments. Heritage Help [online]. Available at: <http://heritagehelp.org.uk> [accessed 26 April 2022]

**Higher Education Academy (HEA)** – The Higher Education Academy champions excellent learning and teaching in higher education. The HEA are a national and independent organisation, funded by the four UK Higher Education funding bodies and by subscriptions and grants. Note: HEA is now **Advance HE**.

**Higher Education Empirical Research (HEER)** Database comprises summaries of the latest published research on a range of topics related to higher education. HEER [online]. Available at: [www.srhe.ac.uk/links/higher\\_education\\_statistics\\_and\\_research.asp](http://www.srhe.ac.uk/links/higher_education_statistics_and_research.asp) [accessed 26 April 2022]

**Historic England** is the public body that looks after England's historic environment. Historic England champion historic places, helping people understand, value and care for them. Further information is available at: [www.historicengland.org.uk](http://www.historicengland.org.uk) [accessed 26 April 2022]

**Historic Environment Local Management (HELM)** - provides accessible information, training, and guidance to decision makers in local authorities, regional agencies, and national organisations whose actions affect the historic environment. Note: All HELM web content on the Historic England website [online] and available at: <https://historicengland.org.uk/services-skills/training-skills/helmtraining> [accessed 26 April 2022].

**Home Builders Federation (HBF)** represents and serves its members in a range of ways that include Ensuring senior politicians and government officials are aware of housing issues and the challenges faced by our members; and working with Government officials to ensure housing policies are introduced that facilitate housing supply, in a way that is workable for the industry [online]. Available at: [www.hbf.co.uk](http://www.hbf.co.uk) [accessed 26 April 2022]

**House Building Careers** (part of HBF). Here you will be able to learn about the home building industry and how it benefits you, your community, and the country as a whole [online]. Further information available at: <http://housebuildingcareers.org.uk> [accessed 26 April 2022]

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**Inclusive Design Hub for the Built Environment** is a collection of the latest guidance and best practice on inclusive design in the built environment and a project of **The Design Council** [online]. Available at: [www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment](http://www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment) [accessed 26 April 2022]

**INFABODE** connects its community of users with industry information from the Real Estate sector on one customisable online platform. Infabode reduces the amount of time people spend trying to access key information from the Real Estate industry. **INFABODE** [online]. Available at: [www.infabode.com](http://www.infabode.com) [accessed 26 April 2022]

**Institution of Civil Engineers** (ICE) is a registered charity that strives to promote and progress civil engineering. ICE [online]. Available at: [www.ice.org.uk](http://www.ice.org.uk) [accessed 26 April 2022]

**ICE Virtual Library** [online]. Available at: [www.icevirtuallibrary.com](http://www.icevirtuallibrary.com) [accessed 26 April 2022] is a free database that indexes all ICE journals.

**International Council for Open and Distance Education** (ICDE) is the leading global membership organisation for enhancing the quality of open, distance, flexible and online education, including e-Learning. ICDE [online]. Available at: [www.icde.org](http://www.icde.org) [accessed 26 April 2022]

**Institute of Historic Building Conservation** (IHBC) is the principal professional body for building conservation practitioners and historic environment specialists working in England, Northern Ireland, Scotland, and Wales, with connections to the Republic of Ireland. IHBC [online]. Available at: [www.ihbc.org.uk](http://www.ihbc.org.uk) [accessed 26 April 2022]

**Institute of Workplace and Facilities Management** (IWFM) – Formerly the British Institute of Facilities Management, BIFM is now the IWFM. The workplace has been incorporated into their new brand so that the status of the professional can help take careers further, regardless of specialism. IWFM [online]. Further information is available at: [www.iwfm.org.uk](http://www.iwfm.org.uk) [accessed 26 April 2022]

**IWFM Insight** – discover leading research and resources for the workplace and facilities management profession. IWFM Insight [online]. Available at: [www.iwfm.org.uk/insight](http://www.iwfm.org.uk/insight) [accessed 26 April 2022]

**IWFM News** – discover the latest news affecting the profession and gain expert insight and advice. IWFM News [online] Available at: [www.iwfm.org.uk/news](http://www.iwfm.org.uk/news) [accessed 26 April 2022]

**IWFM Digital Magazine, *facilitate*** - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: [www.facilitatemagazine.com/](http://www.facilitatemagazine.com/) [accessed 26 April 2022]

**ITcon** – The **Journal of Information Technology in Construction** is a peer-reviewed scholarly journal on the use of IT in architecture, civil engineering, and facility management. *ITcon* [online]. Available at: [www.itcon.org](http://www.itcon.org) [accessed 26 April 2022]

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## J

**JISC Library Hub Discover** – Library Hub Discover replaces COPAC\* and SUNCAT, offering increased coverage of university libraries along with new facilities and improved response times. Library Hub Discover currently contains 42,397,777 records created from 106,833,532 records contributed by 144 institutions. Jisc Library Hub Discover [online]. Available at: <https://discover.libraryhub.jisc.ac.uk> [accessed 26 April 2022].

**JORUM Archive** – After 13 years delivering and sharing content across the higher education, further education and skills sectors the Jorum service and website was retired on 30 September 2016. However, many of the open education resources (OER) that were available in Jorum, access to their Jorum Archive can be accessed via the JISC website [online]. Available at: [www.jisc.ac.uk/website/legacy/jorum](http://www.jisc.ac.uk/website/legacy/jorum) [accessed 26 April 2022] where you can also gain access to JISC's full digital resources offer.

**Journal of Online Learning and Teaching (JOLT)** - The **MERLOT Journal of Online Learning and Teaching** is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education.

**JournalTOCs** is the largest, free collection of scholarly Journal Title of Contents (TOCs) [online]. Available at: [www.journaltocs.ac.uk/index.php](http://www.journaltocs.ac.uk/index.php) [accessed 26 April 2022]

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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/research](http://www.leedsbeckett.ac.uk/school-of-built-environment-engineering-and-computing/research) [accessed 26 April 2022]

**Leeds Beckett University's - Leeds Sustainability Institute** [online]. Further Information is available at: [www.leedsbeckett.ac.uk/leeds-sustainability-institute](http://www.leedsbeckett.ac.uk/leeds-sustainability-institute) [accessed 26 April 2022]

**Leeds Beckett University – The Library** [online]. Available at: <http://libguides.leedsbeckett.ac.uk/home> [accessed 26 April 2022]

**Lexology** is a comprehensive source of international legal updates, analysis, and insights. Lexology publish in excess of 450 articles every day from over 1,100 law firms and service providers worldwide across 50 work areas in 25 languages. Lexology [online]. Available at: [www.lexology.com](http://www.lexology.com) [accessed 26 April 2022]

**Local Government Association** (LGA) is the national voice of local government. They work with councils to support, promote, and improve local government. LGA [online]. Available at: [www.local.gov.uk](http://www.local.gov.uk) [accessed 26 April 2022]

**LGA Knowledge Hub** - Knowledge Hub is the public sector's professional social network which helps people in local government connect and share online in a secure environment [online]. Available at: <https://khub.net> [accessed 26 April 2022]

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## M

**Multimedia Educational Resource for Learning and Online Teaching** (MERLOT). The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) developed and provided free access to MERLOT [online]. Available at: [www.merlot.org/merlot](http://www.merlot.org/merlot) [accessed 26 April 2022]. MERLOT is a curated collection of free and open online teaching, learning, and faculty development services contributed and used by an international education community.

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## N

**Naomi Korn Associates – Copyright Resources** has developed free and openly licensed copyright, licensing and data protection help resources. Naomi Korn Associates [online]. Available at: <https://naomikorn.com> [accessed 26 April 2022]

**National Building Information Modelling (BIM) Library**, the construction industry's free-to-use resource of the NBS (trading name of RIBA Enterprises Ltd) standard BIM content [online]. Available at: [www.thenbs.com/our-tools/nbs-national-bim-library](http://www.thenbs.com/our-tools/nbs-national-bim-library) [accessed 26 April 2022]

**National Building Specification** (NBS) is an integrated global platform for everyone involved in the design, supply, and construction of the built environment. NBS [online]. Available at: [www.thenbs.com](http://www.thenbs.com) [accessed 26 April 2022]

**NBS Knowledge** [online] is available at: [www.thenbs.com/knowledge](http://www.thenbs.com/knowledge) [accessed 26 April 2022]

**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 26 April 2022]

**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 26 April 2022]

**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 26 April 2022]. 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 26 April 2022]

**National Trust's Land & landscape** [online]. Available at: [www.nationaltrust.org.uk/land-and-landscape](http://www.nationaltrust.org.uk/land-and-landscape) [accessed 26 April 2022]

**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 26 April 2022]

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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 26 April 2022]

**OLC's Online Learning** – the official journal of the Online Learning Consortium. *Online Learning* [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 26 April 2022]

**Open Education Resources, Research Hub** – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices. OER Hub [online]. Further information is available at: <http://oerhub.net/> [accessed 26 April 2022]

**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 26 April 2022]

**Open University (OU) UK** [online] and available at: [www.open.ac.uk](http://www.open.ac.uk) [accessed 26 April 2022]

**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 26 April 2022]

**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 26 April 2022]

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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 26 April 2022]

**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 26 April 2022]

**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 26 April 2022].

**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 26 April 2022]

**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 26 April 2022]

**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 26 April 2022]

**Property People's Network** (PPN) is open to all interested in land and property and provides a forum to network through a range of social activities and visits [online]. Available at: [www.ucem.ac.uk/student-community/property-peoples-network](http://www.ucem.ac.uk/student-community/property-peoples-network) [accessed 26 April 2022]

**Property Week** – Commercial property news. *Property Week* [online]. Available at: [www.propertyweek.com](http://www.propertyweek.com) [accessed 26 April 2022]

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## R

**Regeneration and Renewal – Placemaking Resource incorporating Regeneration & Renewal magazine** [online]. Available at: [www.placemakingresource.com](http://www.placemakingresource.com) [accessed 23 February 2022]

**Residential Landlord** – an online resource providing Landlord Resources, a Document Download Centre (containing templates and free tenancy agreements to amend and use as required), news and views, advice, and guidance [online]. Further information is available at: [residentiallandlord.com](http://residentiallandlord.com) [accessed 26 April 2022]

**Revo – Retail. Property. Community** (formerly BCSC (British Council of Shopping Centres) is the professional body and authoritative voice for retail property and placemaking-led regeneration and for the management of and investment in shopping places [online]. Further information is available at: [www.revocommunity.org](http://www.revocommunity.org) [accessed 26 April 2022]

**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 26 April 2022]

**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 26 April 2022]

**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 26 April 2022]

**Royal Institution of Chartered Surveyors** (RICS) is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property, and construction. RICS [online]. Available at: [www.rics.org/uk](http://www.rics.org/uk) [accessed 26 April 2022]

**RICS > News & Insights** [online]. Available at: [www.rics.org/uk/news-insight](http://www.rics.org/uk/news-insight) [accessed 26 April 2022]

**RICS > Upholding Professional Standards** [online]. Available at: [www.rics.org/uk/upholding-professional-standards](http://www.rics.org/uk/upholding-professional-standards) [accessed 26 April 2022]

**RICS Publications** - RICS publishes a range of journals that are **free** to view online. Available at: [www.rics.org/uk/news-insight/publications/](http://www.rics.org/uk/news-insight/publications/) [accessed 26 April 2022]

**RICS Library Services and Online catalogue** - 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at: <https://library.rics.org/> [accessed 26 April 2022]

**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 26 April 2022]

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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 26 April 2022]

**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 26 April 2022]

**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 26 April 2022]

**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 26 April 2022]

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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 26 April 2022]

**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 26 April 2022]

**Trust in Digital Repositories** (TrustDR) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit. TrustDR [online]. Available at: <https://trustdr.digitalinsite.co.uk> [accessed 26 April 2022]

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## U

**UK BIM Framework** – The overarching approach to implementing BIM in the UK. Further information on BIM Standards, Guides and Resources. UK BIM Framework [online]. Available at: [www.ukbimframework.org](http://www.ukbimframework.org) [accessed 26 April 2022]

**University College of Estate Management** (UCEM) is the leading provider of supported distance learning for real estate and construction professionals. UCEM [online]. Available at: [www.ucem.ac.uk](http://www.ucem.ac.uk) [accessed 26 April 2022]

**UCEM e-Library** is a comprehensive and valuable online resource, supplementing teaching and learning materials and enabling students to access a wealth of subject-specific and credible

information to support them throughout their studies. UCEM e-Library [online]. Available at: [www.ucem.ac.uk/e-library](http://www.ucem.ac.uk/e-library) [accessed 26 April 2022]

**University of the West of England (UWE), Centre for Architecture and Built Environment Research** (CABER) seeks to develop innovative approaches, procedures, technologies, and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric, and the environments they create. Note: CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online]. Available at: [www1.uwe.ac.uk/et/research/caber.aspx](http://www1.uwe.ac.uk/et/research/caber.aspx) [accessed 26 April 2022]

**UWE Educational Resources for the Built Environment** (ERBE) produces unique and highly respected educational resources for academic and professional use and incorporates the **Video Project** and the **Construction Website**. Further information can be found on the ERBE website [online] and available at: [www1.uwe.ac.uk/et/cp/erbe.aspx](http://www1.uwe.ac.uk/et/cp/erbe.aspx) [accessed 26 April 2022]

**UWE, ERBE, Construction Films** concentrate on domestic building construction. The films explain the principles of modern construction and, where appropriate, trace its evolution over the last 100 years. ERBE Construction Films [online]. Further information is available at: [www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx](http://www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx) [accessed 26 April 2022]

**UWE, ERBE, The Construction Website** is an interactive encyclopaedia covering construction, conservation and building history. It is expanded and revised on an annual basis [online]. Further information is available at: [www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx](http://www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx) [accessed 26 April 2022]

**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 26 April 2022]

**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 26 April 2022]

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## V

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

## 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 26 April 2022]

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## Z

**Zetoc: Informing Research** - The monitoring and search service for global research publications, providing access to over 36,000 journals and more than 59 million article citations and conference

papers through the British Library's electronic table of contents and over 875,000 Open Access (OA) article citations and conference papers from PubMed. Zetoc [online]. Available at: <http://zetoc.jisc.ac.uk/> [accessed 26 April 2022]

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

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

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**Please note:** support for Internet Explorer is being removed by Microsoft and a number of platforms will no longer work on it, therefore you may need to use a **PC** with **Google Chrome**, Mozilla **Firefox**, Microsoft **Edge**, or **other browsers**.

**University College of Estate Management** (UCEM), Horizons, 60 Queen's Road, RG1 4BS, UK – UK (Free): 0800 019 9697, International: +44 (0)118 921 4696, Email: [library@ucem.ac.uk](mailto:library@ucem.ac.uk)

**UCEM Social media:** [Facebook](#), [Twitter](#), [LinkedIn](#), [YouTube](#)

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