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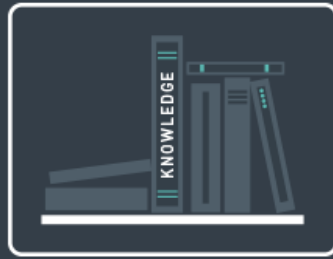
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Knowledge Foundations

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- **Latest UCEM News** incl. UCEM signs up to the CIC - Construction Industry Council's 'carbon zero' climate action plan.
- **Things you need to know this week** – Countryside to deliver London homes and school scheme. Developer seals deal to deliver 1,200-pupil secondary school and 116 homes on a former college site in Ealing.
- **Latest Research** from JRF, CABE, CBRE, CIOB, RICS, Savills, SI, and more.

Happy Reading!

Issue 7 – July 2021

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

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

“The mission of librarians is to improve society through facilitating knowledge creation in their communities.”

(R. David Lankes)

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

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

Supported Online Learning

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

[Visit Supported Online Learning](#)

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UCEM News

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

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

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

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

The graphic features the CIC logo (Built Environment Professions Together) in the top left. The main title is 'Carbon Zero: the professional institutions' climate action plan'. Below the title, it states: 'The signatories to this Action Plan agree that:' followed by a bulleted list of three points. The right side of the graphic is decorated with a grid of colorful icons representing various professional fields and sustainability concepts.

CIC BUILT ENVIRONMENT
PROFESSIONS 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

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

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

UCEM have upgraded their website

From bespoke content for prospective students and employers to information on careers in the built environment and our pioneering online education, [the new UCEM website](#) has it all! Why not visit today and take a look! [#BuiltForLife](#)



© UCEM 2021

UCEM launches mental health strategy

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

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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.
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.

UCEM's disability and wellbeing adviser, Richard Higgins, is the project lead, and comments: "We have been working on this strategy for a few months and I am very pleased to see it launched to coincide with Mental Health Awareness Week.

"According to [mental health charity] Mind, one in four people will experience some form of mental health difficulty each year in England. That is a huge number of people affected by mental health difficulties which signifies how important it is to proactively take steps to promote positive mental health where possible.

"The strategy document is another step in the right direction, supporting the actions of the disability and wellbeing team and mental health first aiders with words which detail how important mental health is to UCEM as an institution. It cements the work we have been doing to support students and staff, rightly identifying mental health as a whole-institution priority and detailing further steps to ensure it remains this way."

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

[**Access the article 'UCEM launches mental health strategy' in full.**](#) Note: See also further articles regarding 'Tackling mental health and wellbeing' within 'Other News' later on.

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UCEM launches competition for school students to present their ideas on the future of Reading prison

UCEM is on the lookout for creative secondary school students to suggest solutions for the future of Reading Prison.

Pupils in Years 9-13 across Berkshire are invited to enter UCEM's competition by submitting a video, written piece, or drawing with their ideas on what to do with the local landmark which is currently for sale.

The best four submissions will be paired with a UCEM tutor who will argue on behalf of their partner on a podcast debate, following which there will be a public vote on social media to find the winner!

The winning student will earn their choice of a scooter, iPad, or a gaming voucher worth £300 and earn their school a careers talk by our real estate programme leader, David Hourihan.

UCEM's senior marketing manager, Lisa Marcham, commented: "The future of Reading Prison is a significant talking point in the town. Since its closure as a prison in 2013, it has operated as a culture hub at various points and repeatedly been the subject of proposed housing schemes but nothing permanent has been secured for its future.

"The only way to solve this issue is to hand it over to the brightest minds in Berkshire – our secondary school students – and I look forward to receiving their entries which we will shortlist for the podcast. There are no limits to what can be achieved in the built environment and this is a wonderful opportunity for entrants to exhibit their creativity for a great prize for themselves and their school."

Students had until 12pm on **Wednesday, 30 June, 2021** to send in their submissions to competition@ucem.ac.uk. Visit [our competition webpage](#) for more details.

For information about the Reading Prison site, head to [JLL's Reading Prison webpage](#).

[Access the article 'UCEM launches competition for school students to present their ideas on the future of Reading Prison' in full.](#)

UCEM joins campaign to drive better gender balance at board level

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

The 30% Club's mission is to reach at least 30% representation of women on all boards and senior leadership teams globally – an

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objective that aligns with UCEM's strategic objective to widen participation.

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

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

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

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

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

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

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

[Access further information about the 30% Club,](#)

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

[Access the article 'UCEM joins campaign to drive better gender balance at board level' in full.](#)

Other UCEM News:

Alumnus named this year's rising star at Government Property Awards

A UCEM alumnus described himself as 'over the moon' after being recognised as the 'rising star' at the Government Property Awards 2021.

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Roy Albert, a lead surveyor from the Valuation Office Agency (VOA), won the Rising Star award at last week's online event.

The award goes to someone in the first five years of their property career who has made outstanding contributions to their area of work, while maintaining progress in growing their knowledge, skills, and experience.

Roy, who studied on our Chartered Surveyor apprenticeship (Real Estate Management pathway) commented: "I am absolutely over the moon and totally proud and excited to have been considered [for the award], never mind winning!"

The award criteria also states that the winner should demonstrate how they have made substantial achievements already and the potential to succeed further.

Roy added: "I believe I was selected due to my journey, including being the first apprentice from the Valuation Office Agency to qualify as a chartered surveyor. I was also part of one of the first cohorts to sit APC online.

"I am an RICS APC assessor, a consultant for Property Elite and an admin for Surveyor's Hub via Facebook. I have been actively helping other graduates and new entrants to the Valuation Office Agency. I am also an ambassador for LionHeart."

The Rising Star award is the second Roy has won already during the early part of his career after winning the VOA's Garner Award for personal achievement last year.

Reflecting on the impact of such recognition, Roy said: "This has further enhanced my objective to help others and increase my knowledge and understanding of the built environment beyond my valuation pathway."

[Access the article 'Alumnus named this year's rising star at Government Property Awards' in full.](#)

COVID-19: University College of Estate Management (UCEM) response to COVID-19

As a responsible employer and educator, UCEM's commitment is to protect the health of all students, staff, clients, and suppliers by adhering strictly to advice offered by Public Health England, The World Health Organisation, Office for Students, local and central government, whilst remaining committed to maintaining our usual excellent standard of student experience.

Please find below the steps we've taken to adhere to current and ongoing advice. As the situation is ever-changing, we fully review the guidelines and our actions daily and will quickly adapt if necessary (**Note** the publication date of this article).

- All staff who are able to work from home are doing so. We have been anticipating this situation and had prepared for it

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full. We have an advanced IT infrastructure in place to enable remote working, so we continue to operate as usual.

- As an online pedagogical institution, we are experts at online teaching and our deliver model will continue as normal.
- The small number of staff remaining in Horizons Head Office have been allocated seating at above the recommended distance away from each other.
- We are operating a policy of no external meetings and no visitors to Horizons Head Office
- All managers and department heads have been briefed with respect to our self-confinement policy and our treatment of any staff member displaying symptoms that may be linked to COVID-19.
- All staff are continually reminded of the importance of following the 20-second guideline for handwashing.

If you have any further questions, please contact:

- Student enquiries – Student Central on our VLE
- Employer enquiries – businessdevelopment@ucem.ac.uk
- Other enquiries – reception@ucem.ac.uk , Tel: +44(0)118 467 2100

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

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

Other UCEM News

[UCEM adopts IHRA's definition of antisemitism](#), and

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

 AdvanceHE

Affiliate Member 20-21

© Advance HE 2021

- UCEM has renewed its Advance HE membership for 2020-21, ensuring continued access to vital resources and supporting valuable partnership across the Higher Education sector.

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

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

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Other News

Things you need to know this week: Countryside to deliver London homes and school scheme.

- Developer seals deal to deliver 1,200-pupil secondary school and 116 homes on a former college site in Ealing.

Developer Countryside has signed an agreement with the Department for Education (DfE) to deliver a scheme in Ealing, west London, combining a secondary school with 116 homes. The developer was selected by arms-length body to the DfE, LocatED, to deliver the Ark Soane project, following a public procurement process. The 1,200-pupil secondary school, Ark Soane Academy, will occupy the first three floors of the six to 12-storey development, which replaces a former college. Above this, there will be 113 apartments, with three separate townhouses located on the site, with 92 apartments being constructed for the Greater London joint venture between build to rent investor Sigma Capital Group and investor EQT Exeter. Three homes will be made available for market sale by Countryside, with the remaining 21 homes being affordable, managed by housing association Network Homes. The scheme is designed by Pollard Thomas Edwards Architects, with Countryside entering a design and build contract with contractor Jerram Falkus Construction to deliver the project.

Other developments include –

- London mayor Sadiq Khan has launched an innovation partnership for social housing providers, which he says could ultimately help deliver up to £10 billion of energy efficiency retrofits and other green upgrading works for homes.
- Developer London Square Partners and housing association Peabody are partnering to deliver a 457-home scheme, close to the Queen Elizabeth Olympic Park in east London.
- Government agency Homes England has agreed a £100 million loan deal with developer British Land to allow it to deliver infrastructure works to drive development of up to 3,000 homes at its Canada Water scheme, in Southwark, south London.
- A partnership between South Cambridgeshire District Council and housebuilder Hill Group has agreed to acquire land in Cambourne, west of Cambridge, with the aim of delivering around 275 new homes.
- The Department for Transport has committed £401 million investment for rail upgrades, including new stations for Leeds and Exeter.
- The government's new national design code for new communities is being tested in 14 areas across England.

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

[Read the full ‘Need to Know: Countryside to deliver London homews and school scheme’ article](#)

Case Study: Engaging with the community to design a neighbourhood

- The latest phases of a housing development in Nottingham are being shaped through an engagement approach that develops input, understanding and support, writes the author of this article.

Design of the latest phases of an emerging neighbourhood beside the River Trent, in Nottingham, is being shaped by the local community through the use of an innovative digital approach. Developer Blueprint, a public private joint venture between Nottingham City Council and PFP Capital and managed by igloo Regeneration, is bringing forward some 200 homes as part of the City’s wider Waterside regeneration area.

Trent Basin is being planned and delivered as a sustainable neighbourhood of around 350 low carbon, energy efficient homes. Two phases of homes have been completed and two more are under construction, while the planning application for the next is in preparation. This upcoming phase is being masterplanned by architect Proctor & Matthews Architects, which has worked with digital agency Deetu to give stakeholders and local people a detailed insight into the proposals via an interactive website.

The digital-first approach has also given local people an opportunity ultimately to influence the design of the planned neighbourhood, through their responses to online consultation surveys. Their views and ideas have fed into a series of design reviews with the project team as well as the pre-application dialogue with stakeholders. The process, described by Deetu associate director Josh Dickerson as “engagement focused design” has informed the planning application, which the project team expects to submit this summer.

Challenges

The pandemic made it essential for Trent Basin’s development team to look to digital routes for early engagement in mid-2020. “The lockdown had an impact on engagement but we were promoting this pre-COVID to try to improve the way stakeholder engagement works,” says Dickerson.

For both Proctor & Matthews and Deetu, the creation of the platform generated its own challenges in distilling design drawings and a wealth of information and ideas into a coherent and engaging digital narrative. The architect provided the raw material, drawing on its building information modelling (BIM) based designs.

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“We had to go further than we ordinarily would in the creation of the digital model and 3D walk-throughs,” says Andrew Matthews, director of Proctor & Matthews. “In order to exploit the technology, you find you’re doing quite a lot to sell the development as a place.” Deetu had the challenge of shaping the raw material, says Dickerson: “We had to create a narrative from a vast array of information, turning three years of work into something that the public could digest in two minutes.”

Solutions

The interactive website allowed stakeholders and the public to explore the location and proposed development through 3D visualisations. Both groups were able to tour an overall digital model of the proposal, guided by Matthews’ audio narration, and take 360° walk-throughs of key areas, including the waterside, basin park, courtyards and an apartment.

“What was interesting to us was that normally you would talk to planners about information that would possibly be more detailed than it would be for the community,” says Matthews. “Here the platform, with its narration and digital systems work, actually used the same material to present to both stakeholders and the public. So the public saw the same narration and storyline as the planners, which isn’t what usually happens.” The only difference between stakeholder and public tools was the language, which was made more accessible for the general public.

A series of surveys allowed the public to give their feedback on the overall proposal, as well as the focus areas of people-friendly space, basin park, and courtyard and waterside living.

“The surveys were less about getting public support and more about influencing the design,” says Dickerson. They presented the opportunity to explore options, gather evidence to inform design evolution and challenge preconceptions. Matthews gives one example: “The planners challenged us on whether the relatively high density proposed would be attractive to families. That was converted to a question for the public survey and 70 per cent of respondents turned out to be in favour.”

Views were also sought on such questions as public willingness to walk from car park to home, as the consultation explored the potential to locate parking in a barn around five minutes’ walk from front doors. This earned the support of around 90 per cent of respondents, providing confidence for the design team that this approach to parking would work, says Matthews. The public’s feedback has also led to the design team going ahead with increasing the size of the pocket park and greening the waterside edge.

Local people were made aware of the consultation via a traditional flyer, distributed to 1,500 households, Facebook groups and

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other social media activity and press promotion. A phone number was provided on the flyer for those not wanting or able to engage via the website, which just one person called. The website was visited by more than 1,000 people, a 1,500 per cent increase in participation, compared to the engagement levels on previous development phases. Deetu analysed responses, so that additional marketing could be targeted at under-represented groups, also gathering a snapshot of the proposal's attractiveness to potential markets. The platform has recently been used to engage with younger people, and Matthews says the findings have been revealing. "You realise that their mental map of the city is different because they occupy public space so much more," he says. "We got really good engagement and ideas."

This engagement focused design approach is, says Dickerson, "quite an iterative process of engage, respond, review and update" but he argues that it ultimately increases productivity. Jim Rae, senior principal planning officer at Nottingham City Council confirms this, saying, "It not only saved us time, but gave us a lot more information to determine our views than a typical application".

At Trent Basin, it has helped develop public understanding of and support for the development, says Matthews. "People realise you are interested in the character of a place. They see that a proposal is not being dumped on them but is evolving out of an understanding of place and that you care. People don't think that of a lot of housebuilding."

He says his practice's first use of the approach has been "an eye-opener" and sees its potential to help deliver on the aspirations of the National Planning Policy Framework (NPPF). He explains, "The NPPF is about mobilising communities to engage with development. I was sceptical about that, but this shows it is possible to engage with communities in a different way. This shows that you can empower the application by presenting a scheme in a much better light. There is less Nimbyism and the ability to see community buy-in should help planning committees."

[Read the Case Study entitled, 'Engaging with the community to design a neighbourhood' in full.](#)

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

Review: Redevelopment of an industrial site for housing

- The first phase of Port Loop, near Birmingham, takes advantage of its Canalside location, but sustainable lifestyles could have been more actively encouraged, says author, Katie Kershaw, director of urban design, landscape and heritage consultancy, Node. At the time of writing, she was a resident at Port Loop.in this review.

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Port Loop Phase 1a is the first step in an ambitious long-term vision to regenerate a 43-acre former industrial site, a couple of miles west of Birmingham city centre, to provide more than 1,000 homes and supporting uses. This first phase comprises 40 homes that were constructed off-site by developer Urban Splash in the company's 'House By US' factory, together with a public park. The wider partnership includes the housing association Places for People, Birmingham City Council and the Canal and River Trust, with designs by architects Glenn Howells, Shed KM and Grant Associates.

Urban Splash set out a bold manifesto, a 'ten commandments' for the Port Loop development. Some are largely inherent to the nature of the site and its location, such as 'live well by accident'. Others are achieved by the design such as 'love thy neighbourhood', which is facilitated by communal rear gardens. This arrangement allows residents a modest private area and a shared garden maintained by a management company. This shared space allows residents to get to know one another organically. Children and pets have safe space to roam – and no-one has to do any gardening.

Galvanised by Front Room, a community-led organisation, residents have brought more of the manifesto's ideas to life. Events including 'Play out 'til tea' and 'Floating front room' have provided a focus that has allowed the community to flourish.

Embracing the water - The 'island' of Port Loop is enclosed by a 1-kilometre length of canal. This is a huge asset, which has been seized upon by the masterplan and in Port Loop's marketing.

Phase 1a has however, somewhat compromised this opportunity through the design of homes with private space extending up to the canal edge. This is disappointing, as an accessible Canalside path would have provided a significant public realm asset. It would have simultaneously enabled a better understanding of the canal's 'loop', which is somewhat lost.

Green credentials - One of the manifesto's commandments is to 'be green without trying'. With its location, with canal access directly into Birmingham city centre, active travel is a realistic possibility for day-to-day living. This is supported by shared-surface streets that already host rollerblading, cycling, skateboarding, and running in the city centre. Somewhat surprisingly, there is no cycle storage or electric vehicle charging in phase 1a, which is a limiting factor in achieving a truly sustainable lifestyle.

At well over 100 per cent, parking provision runs counter to this objective. With phase 2's provision even greater, there is a risk that in spite of its sustainable location, Port Loop could still become car-dominated.

Port Loop's public park is attractive with its gentle slopes, a network of paths, a Canalside plaza and raised planting and

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seating. Including a public park within the first phase of development is to be commended. Publicly accessible space is particularly important in the context of regeneration sites. Port Loop's Park provides a place for the new residents and the wider existing community to come together, promoting better integration.

Modular housing - The benefits of modular housing are manifold, including quality assurance and energy and time efficiencies. Port Loop's modular homes are constructed in the factory as fully formed storeys that are transported to site and craned into place, creating a consistent and reliable housing product. The internal layout of the homes can be customised to the needs of the purchasers and have generous floor to ceiling heights, creating quality internal living space.

Opinion is more divided on the external appearance. Criticism could be levelled that their uniform, somewhat stark appearance does not provide a bespoke response to context.

Port Loop is a successful example of contemporary master planning that employs sustainable, community-led principles and strong design concepts.

[Further information and read the article, 'Review: Redevelopment of an industrial site for housing' 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').

Budget 2021 - A Summary from the Heritage Alliance

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

Business Support

- **The Job Retention Scheme** - or furlough - will be extended until the end of September. **From July**, the government will introduce an employer contribution of **10%** towards the cost of unworked hours in July, and **20% in August & September**.
- **Self-Employment Income Support Scheme**
- **Further 100% relief from business rates**
- **VAT rate for tourism and hospitality**
- **Restart Grants**
- **Additional Restrictions Grants**
- **Recovery Loan Scheme**

[Access further information from the Heritage Alliance 'Budget 2021 – A summary', in full.](#)

Related Links: **[Joseph Rowntree Foundation \(JRF\) Spring Budget 2021 analysis](#)**

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Related Links continued:

Government launches £7.1bn National Homebuilding fund

- The government will create a £7.1bn National Homebuilding Fund to unlock the development of 860,000 new homes.

It was one of a number of spending pledges from the Chancellor to help kickstart the post-Covid economy, which also included a £4bn 'levelling up' fund which will allow local authorities across England to compete for investment in a range of schemes up to £20m to improve the local area.

And the government renewed its commitment to build or rebuild 500 schools across the UK over the next five years, as well as to build 40 new hospitals over the next 10 years.

Meanwhile the government has published its delayed **National Infrastructure Strategy**, entitled 'Fairer, faster, greener', which aims to deliver improvements to UK infrastructure while putting the UK on the path to net zero emissions by 2050.

Within the document, the government pledged to accelerate and improve delivery of projects through reforms to the planning system, as well as improvements to the way projects are procured, and the greater use of construction technology.

[Access further information and the *Construction Manager* article, 'Government launches £7.1bn National Homebuilding fund', in full.](#)

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.

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

Please visit the '**Sustainability Hub**' within *Knowledge Foundations* for further information and related articles.

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Coronavirus – latest developments [June 2021]

LIVE News Latest – Covid-19: Final push as all adults can book jabs

Summary:

- All adults in England can book a coronavirus jab from today (see publication date),
- The NHS will send about 1.5 million texts to people aged 18 to 20 later,
- It is a “watershed moment”, according to NHS boss Sir Simon Stevens,
- Case rates are up across England with much of the rise driven by young people, a Public Health England study shows,
- Professor Chris Whitty says we are seeing a further surge but the height of it is “uncertain”,
- A decision to vaccinate all 12 to 17-year-olds is unlikely to be recommended by the JCVI imminently, the BBC understands.

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

(Note: see publication date)

Related Links:

Coronavirus: Why some people want to keep working from home

When lockdown started in March 2020, workers across the UK packed up their office equipment and set up workstations in their own homes. Bedrooms, kitchen counter-tops and dining tables became the new way of working for millions of people. But now it's time to return to those communal workplaces, research from Eskenzi suggests that 91% of the UK's office workers would like to work from home at least part of the time. So why are so many office staff keen to keep working from home?

Some of the reasons and case studies provided in this article and include -

- 'It's like getting a pay rise' due to making savings on the commute.
- 'We're spending more time together as a family', and
- 'I've seen an improvement in my mental health'.

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

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Coronavirus: How to be happier while working from home

This article from the Royal Institute of British Architects (RIBA) explains what we can do to keep us happier at home and include –

• Let in the light; • Shut out the noise; • Declutter; • Stand up; • Use plants; • and Social contact ... and not just online.

[Access the BBC News article entitled, 'Coronavirus: How to be happier while working from home', in full.](#)

[Access BBC News > Coronavirus > Coronavirus pandemic > Your Coronavirus Stories and related articles in full.](#)

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

More about coronavirus:

- A SIMPLE GUIDE: **[What are the symptoms?](#)**
- LOOK-UP TOOL: **[Check cases in your area](#)**
- MAPS AND CHARTS: **[Visual guide to the outbreak](#)**

The evolution of building surveying education during COVID-19

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

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

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

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

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

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

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

Will COVID-19 accelerate construction's digital transformation?

- With many industry professionals forced to work remotely, is now the perfect time for construction to get up to speed with all things BIM and digital? *Construction Manager* magazine finds out if the coronavirus will change the way we work forever.

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

The coronavirus pandemic is forcing us to strive for more innovative and rapid solutions. From increased home working needs, maximising performance of our healthcare estates and ultimately how we can recover from the looming economic challenges, we need to usher in new ways of working.

This crisis will be an opportunity for us to rethink construction priorities, how we can better use technology and innovate in the use of joined-up data to support immediate societal needs and the creation of a more resilient built environment.

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

T&T’s technology team have all been set up to work from home for some time and the early adopters will reap the rewards from the coronavirus lockdown. Design teams are able to continue working – creating a fully designed digital model that can be constructed to an excellent quality standard when work is able to begin on site. There are also security questions about home working – we need to educate people and show them how to make home routers more secure. But overall, the enforced lockdown could show the industry how we can use digital technology to be more efficient and productive.

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

The effect of Covid-19 and social distancing is going to have a long-lasting effect on both the construction sector and the UK as a whole. There has been a huge increase in the use of technology and software that allows individuals and teams to communicate and collaborate remotely.

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While this technology has been around for a while, and because we are in a position where we have to use it to keep working, people are starting to become a lot more comfortable with it and this is building up simple routines that will have a lasting effect.

Richard Saxon – CBE Chairman of JCT, client adviser at Deploi BIM Strategies says, **“Wartime scenarios” will push the digital agenda.’ (Saxon 2020)** The Covid-19 crisis is looking very like a war scenario. Organisations are sending out messages saying they will play their part through staff working from home. It’s Keep Calm and Carry on again.

Technology has always developed rapidly in wartime. The Second World War saw the birth of computing radar, jet aircraft and nuclear power. Now we have a design and construction industry in lockdown, starting to rely on tools which only a few firms have used to far.

- Now cloud-based teamwork applications allow staff to work from home or on the move with full access to their firm’s common data environment
- The pressure to roll out superfast broadband and 5G will be immense
- Social media apps allow for virtual co-working
- Online meetings are well supported now and soon we will use Virtual Site Visit technology as normal
- Site work will be aided by augmented reality headsets and BIM caves

By the time a vaccine is available (see publication date), a year or more of forced advance in technology use is likely to have passed.

Things will not go back to where they were before: productivity will have improved; flexible working will have become normal; whole life thinking will have advanced.

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

Related links:**What will the post-pandemic office look like?**

- Businesses have been scrambling to adapt their offices more Covid-friendly over the summer. But with remote working seemingly here to stay, anecdotal evidence suggests that firms are looking to cut office space by up to 40%. How is the workplace having to evolve to remain relevant?

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

[Read the RICS article ‘Coronavirus to weigh on Q1 construction activity, despite recent pick up’, in full.](#)

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



© Emerald Publishing 2021

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

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

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

Covid-19 and the impact on business

HSTalks

© Henry Stewart Talks Ltd 2021

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

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

[Shoosmiths UK law firm Insights and Articles](#)

- Read the latest insights, articles, and commentary from Shoosmiths UK law firm or explore their content library, or listen to the latest **[June 2021] Real Estate Podcasts** that include:

[The city centre and the road to net zero](#)

- The unexpected happened in 2020. The world shut down. Physical human interaction stopped and we had to go digital.

[Queen's speech – what next for planning?](#)

- The Queen's speech has signalled changes to the planning system but is light on detail.

[VAT Reverse Charge to apply from 1 March 2021](#)

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

[Back to top](#)**What 2020 has taught us about digitisation and data**

- The unexpected happened in 2020. The world shut down. Physical human interaction stopped and we had to go digital.

Councils step up regeneration

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

The future of build-to-rent market 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.

Cambridge University: All lectures to be online-only until summer of 2021

- There will be no face-to-face lectures at the University of Cambridge over the course of the next academic year due to coronavirus, it has been announced.

However, lectures will be available to students online and “it may be possible to host smaller teaching groups in person” if they meet social distancing requirements, the university said.

- **Students ‘must be warned if courses taught online’**
- **Online students would still face full tuition fees**

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The university watchdog said students applying for university places in England must be told with “absolute clarity” how courses will be taught - before they make choices. Universities can charge full fees even if courses are taught online. But Nicola Dandridge of the Office for Students warned against misleading promises about a “campus experience” if courses are to be taught online.

[Read the article, ‘Cambridge University: All lectures to be online-only until summer of 2021’ in full and related item via the BBC website](#)

Related topics / subject terms / keywords:

CORONAVIRUS

SOCIAL DISTANCING

UNIVERSITY
OF CAMBRIDGE

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

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

Summary - In this report the experience of 2020 and changing aspirations of the nature and shape of learning and teaching for the next academic year, 2021/22, and 2030, are explored.

Recommendations - Based on this research the following recommendations for universities, sector agencies and government are made:

1. Universities to use their strategic and structural planning processes to affect the digital transformation of learning and teaching, ensuring that sponsorship is provided by governing bodies and executive teams
2. Universities to review their strategic investment in digital learning and teaching
3. Universities to make investment plans to mitigate the heightened cyber security risks that arise from greater dependence on digital technologies
4. Universities to think radically about the scale and scope of their learning and teaching activities, prioritising blended learning approaches wherever possible
5. Universities to accelerate the adoption of blended learning, with close involvement of students in all aspects from design to delivery
6. Universities to ensure inclusivity and accessibility are integral considerations in curriculum redesign

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7. Universities to ensure their professional development plans include digital training, peer support mechanisms and reward and recognition incentives to encourage upskilling

8. Universities and sector organisations to establish research to remain in step with the changing digital preferences and expectations of prospective in higher education students

9. Universities, government and funders to provide additional funding or means to reduce digital poverty as a barrier to students accessing higher education.

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

New guidance from CIRIA - Construction Industry Research and Information Association

CIRIA is pleased to announce (June 2020) new [free CIRIA practice guidance](#) that include:

Code of practice for property flood resilience (C790) –

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

Retrofitting ground gas protection measure (C795) –

This guide dispels the myth of demolition being the only option for mitigating ground gas ingress into existing UK properties.

Grouted anchors and soil nails (C794) –

This guide addresses intrusive inspections beneath the anchor head, typically the critical section in respect of corrosion, outlines specialist techniques such as destructive de-stress and describes options for remediation and repair.

The Management of advanced numerical modelling in geotechnical modelling (C791) -

Numerical modelling is commonly carried out in engineering. Producing a numerical model is complex and if not used properly can be dangerous. However, if use with skill and care there can be enormous benefits. This guide provides a framework for those who oversee the process, provide the information needed for this task and use the results of the numerical modelling.

Methodology for quantifying the benefits of offsite construction (C792) -

This new guidance proposes a framework for comparing construction approaches, making it possible to keep consistent records across projects and identify all the possible benefits available. This guide also highlights the challenges that can be expected when assessing the performance of construction projects and developing robust benchmarks for comparison.

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Grenfell Tower Inquiry – latest developments

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

Phase 2 hearings – Hearings will resume on Tuesday 10 June at 10:00.

Remote Hearings / COVID-19 information – The Inquiry takes health and safety guidance extremely seriously. Following a full risk assessment, it has put in place arrangements to ensure social distancing is maintained in all parts of its venue. Full guidance can be accessed via the [Grenfell Tower Inquiry website](#).

Drop-in sessions – In line with current public health guidance on COVID-19, the Inquiry has postponed its monthly drop-in sessions until further notice.

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

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

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

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

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;

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- 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.

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

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

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

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

The Australian Construction Industry is now facing skills shortages in all trades. As an industry focused on the skills of its workforce, there is now concern the Australian standard in quality, workmanship, and productivity will inhibit both national and international level. Given the reference to skills shortages within the industry, and documented in related literature if skills shortages are to continue to exist their effect will impact upon the overall performance of construction companies through Australia.

This research paper addresses the underlying, influential factors concerning skills shortages in the Australian construction industry. The influential factors addressed include funding, training statistics, employer expectations, financial limitations, Industrial Relations and immigration.



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

Tomorrow's Engineers



© EngineeringUK (2021)

Tomorrow's Engineers brings together resources and evidence to support the engineering community in getting the most out of their engagement activity. It includes information and guidance on a range of topics curated from across the STEM community. Developed by EngineeringUK, the new website is for anyone who funds or delivers engineering engagement activities and is designed to help improve the engineering community's collective impact.

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

Women in construction: building a career in a challenging environment

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

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

RICS Market surveys – leading indicators in the real estate industry

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

- [UK Residential Market Survey](#) – used by government and key institutions, the Resi. Market Survey is a key indicator of conditions in UK residential sales and lettings.
- [RICS/RAU Rural Land Market Survey & Land Prices](#) – The RICS/RAU Rural Land Market Survey is the leading survey on demand, supply and prices in the farmland market.
- [UK Construction and Infrastructure Survey](#) – The leading sentiment indicator of the UK construction and infrastructure markets.
- [Hong Kong Residential Market Survey](#) – The Hong Kong Residential Market Survey is a leading sentiment indicator of conditions in the Hong Kong residential sales and lettings markets.
- [Global Commercial Property Monitor](#) – RICS global commercial property monitors are leading indicators of conditions in commercial property occupier and investor markets around the world.

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

RICS – The Future of Surveying

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

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

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

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

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

GOV.UK, National Statistics - UK House Price Index [Published April 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:

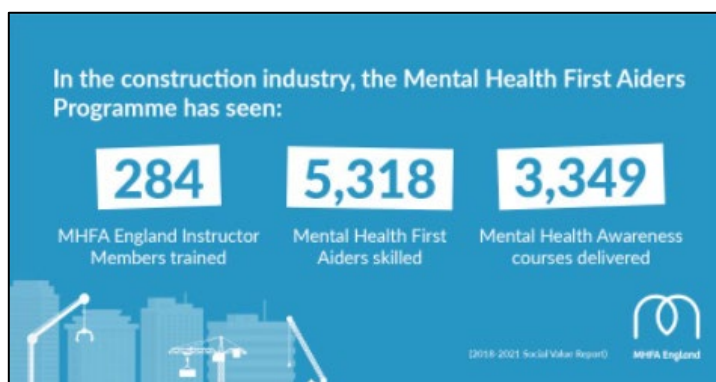
- Headline statistics
- The economic statement
- Price changes
- Sales volumes

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- 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', Published 21 April 2021 \(Last updated 15 February 2021\)' in full.](#)

Tackling mental health and wellbeing within the construction industry



© MHFA England

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

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

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

Related Links:

Understanding Mental Health in the Built Environment

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

Note: Within **UCEM News**, at the start of *Knowledge Foundations* - **'UCEM launches mental health strategy'**, +

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.](#)

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

Coronavirus and your wellbeing

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

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

Sustainable outcomes for buildings

The Royal Institute of British Architects (RIBA) has published guidance on targeting, designing, and evaluating sustainable outcomes for buildings, defining concise measurable set of eight sustainable outcomes that correspond to key UN Sustainable 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,

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

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

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

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

[Read the National Trust Planning Principles](#)

The National Trusts' planning procedure

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

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

Case studies are provided.

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

Foster + Partners Projects

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

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New RIBA Plan of work 2020

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

What is the RIBA Plan of Work? The RIBA Plan of Work was first published by the Royal Institute of British Architects (RIBA) in 1963. It originally provided a matrix to show the roles of participants in the design and construction processes.

It has since been updated in several editions, most recently in 2020. This has allowed it to adapt to the complexity of modern projects, industry demands and legislative and regulatory requirements.

It now provides a shared framework for design and construction, including both a process map and management tool.

What changed in 2020? In 2020, key changes were made to reflect the importance of sustainability and Building Information Modelling (BIM) in construction. The Plan of Work now also incorporates issues such as digitisation of the industry, Modern Methods of Construction, ethical issues, the value of aftercare and timing relating to planning applications and procurement.

This has included restructuring and renaming of the work stages from the 2013 Plan of Work:

0 – Strategic definition – no change

1 – Preparation and briefing – brief amended to briefing

2 – Concept design – no change

3 – Spatial coordination – formerly Developed design

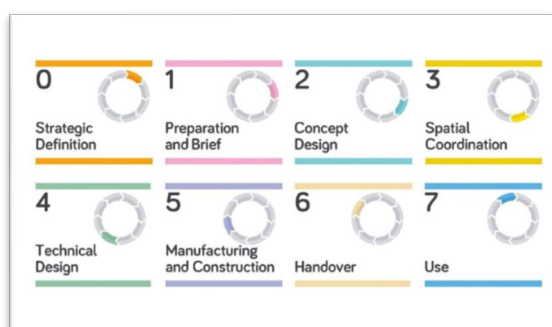
4 – Technical design – no change

5 – Manufacturing and construction – formerly Construction

6 – Handover – formerly Handover and close out

7 – Use – formerly in use

RIBA Plan of Work 2020:



© RIBA 2020

Source: Royal Institute of British Architects (2020) 'RIBA Plan of Work'

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

[Access Property Elite's, Building Better Property Professionals, 'New RIBA Plan of Work 2020' \[Blog\], in full](#)

Autodesk and CIOB map the digital construction journey

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

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

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

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

Building Information Modelling (BIM)

[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 [June 2021] –

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

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

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

The Haweswater Aqueduct is one of the large pipes in United Utilities' (UU) water supply network, delivering 570 million litres of water every day to 2.5 million customers in Cumbria, Lancashire, and Greater Manchester. A £1bn resilience programme is overhauling the 65-year-old structure and ensuring its future.

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As part of that programme, Mott MacDonald Bentley (MMB) designed and constructed a new 2.5km section for the Hallbank Tunnel in Cumbria, comprising four 1.6m diameter pipes, to replace a section of the existing aqueduct. Each pipe was made up of 200 pieces and each piece was 14m long.

After nearly two years constructing the pipelines, UU allowed a short autumn shutdown of the aqueduct for MMB to connect the new pipes at either end. At its peak, 90 engineers were working around-the-clock on socially distanced shifts. The site was handed back to UU, after just 7 days 22 hours and 46 minutes - 20 days quicker than the original plan.

And that improvement against plan couldn't have happened without the use of 4D models, created by consultant Freeform 4D.

Also covered within this article are the following subject areas:

- **Right time for 4D** – MMB engaged Freeform 4D in December 2019, 10 months before work was due to commence on site in October 2020. The 4D models were to be used to develop the programme and logistics for the two major pipeline connections. According to MMB design lead Declan Mawson and Freeform 4D founder James Bowles, the timing of Freeform's involvement was just about right.
- **Driving engagement with 4D** - In February 2020, Mawson staged a half-day face-to-face workshop with representatives from the project team, including subcontractors and suppliers, in order to secure their engagement with the 4D approach.
- **The future of 4D models and customer interaction** – Bowles states, 'It would be nice to hand more ownership of the modelling tweaking to our customer, and there are new tools coming that will allow that on mobiles or tablets. Rather than needing Synchro on your desktop and someone with 10 years' experience of the software, I think we're getting into a world of handing something over to the customer who can then play Minecraft with it a little bit, move the equipment around for themselves.' (Bowles 2021). Mawson states, 'I know as a company that we are pushing 4D more and more. In the future, if I was to do any type of critical work or tightly constrained work like this, I would consider 4D a necessity.' (Mawson 2021).

Other BIM+ Projects include:

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

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

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

- **Project:** [Digital tech fundamental to Luton DART delivery](#), 27th May 2021.

- Designed to provide travellers with a speedier, greener, and more efficient journey to the UK's fifth busiest airport, the Luton DART marks a significant investment in the town's civil infrastructure by Luton Council's airport company London Luton Airport Ltd, with BIM and digital technology at the heart of its delivery.

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

- **Project:** [AI tech key to Mace's £225m City project](#), 14th May 2021.

- Mace had a challenge on its hand build One Crown Place, a large mixed-use scheme in the City of London – and digital tools were the answer.

Client: AlloyMTD; **Development Manager:** CBRE; **Architect:** Kohn Pederson Fox; **Main contractor:** Mace; **Start on site:** April 2018; **Completion:** May 2021

- **Project:** [Modelling key to Boeing's new maintenance hangar at Gatwick](#), 19th April 2021.

- Forming part of Boeing's strategic plans to expand its Global Fleet Care Service, the construction of a new Boeing hangar at Gatwick was a significant project, with digital technology and BIM at the heart of its successful delivery.

Client: Boeing; **Architect:** D5 Architects; **Lead design consultant:** Matt MacDonald; **Structural steelwork contractor:** JD Pierce

- **Project:** [BIM the best solutions for historic chapel relocation](#), 31st March 2021.

- Relocating a Victoria chapel from its current position in a hospital building due for demolition to its position in a new building would be tough enough, but the 50mm tolerances making the challenge tougher, contractor DBR turned to technology.

Client: Brighton and Sussex University Hospitals NHS Trust; **Chapel project contractor:** DBR (London); **Main contractor:** Laing O'Rourke; **Conservation architect:** Cowan Architects; **Conservation engineer:** SFK Consulting; **Principal architect:** BDP; **BIM specialist:** Murphy Geospatial.

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BIM in action: 2020's top five projects

22 December 2020

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

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

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

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

Related BIM+ Projects

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

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

The Multinational Data Center [sic] in Malmo will house and run a vast array of networks and servers for massive data processing and storage. That means state-of-the-art M&E installations and precise attention to the smallest of details for construction and handover are necessary.

The John Sisk & Son team has nearly 40 years of experience in data centre construction and has brought a digital project delivery approach to the Malmo project.

Sisk highlights some significant outcomes:

- The Sisk team-built dashboards that stored live clash trend reports to track progress weekly, resulting in a 50% efficiency increase in the BIM management process compared to traditional, manual methods of construction coordination without the automating power of the cloud.
- The tight integration between BIM 360 Docs, Microsoft Power BI, and Sisk's own "Design Changes Control" dashboards provided the commercial teams with a faster

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- way to visualise the cost and/or schedule impacts, reducing the overall take-off by a potential 40%
- By using BIM 360, the project continued uninterrupted as construction continued in Sweden during the Covid-19 pandemic.
- **(2) Project: [Finland's Hospital Nova uses VR to involve staff in building](#), 28th April 2020.**
Lead Contractor: The Central Finland Health Care District
BIM Tools: Tridify
- Innovative processes have been used in the co-design of Finland's new Hospital Nova using BIM models and involving more than 350 staff.
- **(3) Project: [NHS Nightingale Hospital, East London – how BIM played its part](#), 5th May 2020.**
Client: Barts Health NHS Trust, Royal Free London NHS Foundation Trust
Lead Contractor: Lead Designer: BDF
BIM Tools: Autodesk Revit
- The UK's newest (see publication date) and largest hospital, based at the ExCel conference centre in London's Docklands, is designed to care for up to 4,000 people affected by Covid-19. The hospital is now in standby mode and will be used should cases in the London area rise again.
- **(4) Project: [Mace use AI tech on Mayfair project to meet Covid-19 safety challenges](#), 1st October 2020**
- Work was already underway on Lodha's No 1 Grosvenor Square flagship project when the lockdown and then social distancing added to the normal construction challenges.
Client: Lodha; Main contractor: Mace
Balancing the many requirements of a building project – cash flow, cost, quality, and timelines – is always a significant challenge for project leadership. The Covid-19 pandemic made the balancing act even more intense, costing projects valuable time at the start of lockdown and requiring adjustments to ensure the health and safety of all personnel on site as production restarted.
- **(5) Project: [AI tracks work quality at Norway's Stavanger Hospital](#), 21st June 2020.**
Client: Stavanger University Hospital
BIM Tools: 100% International open standards, compatible with Revit, ArchiCAD, Solibri and others
- Oslo-based BIM developer Imero has been given responsibility to monitor work progress in one of the biggest public construction projects in Scandinavia.

[Access the Chartered Institute of Building's \(CIOB\), BIM+ articles, projects, case studies and more, in full.](#)

Latest BIM news – 10th annual BIM report 2020 available

NBS 10th National BIM Report 2020 - The 2020 annual BIM report marks the 10th year of recording over 1,000 industry professional's view about BIM. It illustrates how usage and perceptions of BIM have changed since 2011, progress made as an industry, and anticipated changes in the next decade.

Construction Information Service (CIS) Insights

The latest edition [**June 2021**] of NBS CIS *Insights* focuses on – **The 2021 NBS guide to collaborative construction, and covers:**

- Construction and the new normal,
- The benefits of collaborative digital working, and
- Six reasons to embrace collaborative construction now.

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Built Environment Research

Latest Policy and Research from:

1) Savills Impacts – The Future of Global Real Estate

- Market Trends: Savills.com

In-depth research and analysis into property market trends, forecasts from specialist research teams, and market leading commentary to help you make the right property decisions.

More than 10 years on from the global financial crisis (see publication date), Savills explore debt, interest rates and credit cycles. Which real-estate markets were resilient or have since recovered (but may now be vulnerable to a downturn), and which still have prospects for growth? How are tax policies affecting investment? Savills take a look at the prospects for real estate and how changes in the world economy impact it's future.

Impacts: Real estate investment in 2021: global outlook

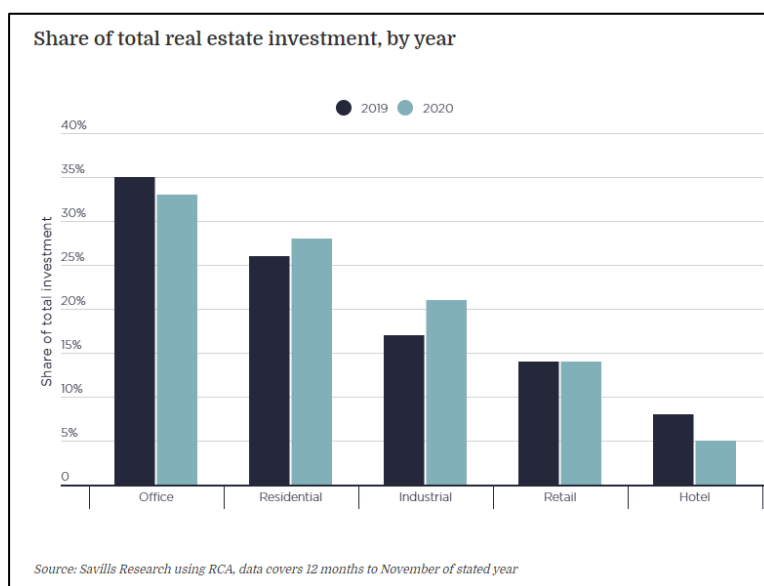
- Savills examine the global trends and in-demand assets for 2021

After the exceptional challenges brought by Covid-19, the distribution of a vaccine brings new hope for 2021. Sustained economic recovery is now on the horizons, led by advanced economics where vaccines are being introduced first. This should fuel wider real estate investor confidence.

Global GDP growth in 2021 is forecast to be the fastest in 40 years, according to Oxford Economics, albeit only enough to return global GDP to pre-crisis levels. Many advanced economics have take a 'whatever it takes' approach to supporting economies, with ultra-low interest rates and quantitative easing programmes.

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These low interest rates will support real estate investment into 2021. Unlike during the global financial crisis, banks today are less geared, while non-bank lenders have expanded significantly. This provides borrowers with greater options in the recovery. Travel restrictions and broader economic uncertainty led to a fall in deal volumes in 2020. In the 12 months to November 2020, global investment volumes were down by 28% compared to the same period in 2019. Not all sectors felt this equally. The industrial and residential sectors saw more modest falls in volumes, gaining market share to capture 21% and 28% of total investment, respectively, as shown in the graph on the next page.

Share of total real estate investment, by year

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

The resilience of these sectors, from left to right and include – **Office, Residential, Industrial, Retail and Hotel**, in the face of structural change means that is a trend likely to continue to 2021.

In spite of near-term uncertainty, the long-term appeal of real estate has held for investors, and the number of funds targeting it have continued to rise. As of the beginning of Q4 2020, there are more than 1,000 funds in market – more than double the number in January 2016, according to Preqin. Funds are now targeting almost \$300 billion of investments. This suggests investor momentum moving into 2021.

Other areas covered in this research include **The Green Agenda** (covered later within the UCEM Sustainability Hub), and

SAVILLS Sector investment outlook for 2021

- The Pandemic accelerated a shift to online retail and flexible working patterns. In 2021, logistics is expected to be the major beneficiary, but the challenge for investors will be funding stock.

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- Office is forecast to remain the largest sector and the core investment of choice. Emphasis will be placed on lower-risk assets with stable income characteristics in the best locations.
- Residential may attract a growing share of global investment, supported by strong underlying fundamentals and cross-border investors growing and consolidated portfolios.
- Senior housing and healthcare are operational asset classes with long-term income potential. Ageing populations and emphasis on health and wellbeing is expected to support expansion.
- Data centres are a rising alternative sector and offer opportunity for portfolio diversification. Yields are attractive and pent-up demand is likely to fuel growth in 2021, but barriers to entry are high.
- 2020 brought life sciences to the fore. A big increase in capital raising is forecast to spur real estate investment opportunities in a sector resilient to changes in working habits.

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

Read Savills Investment tips and trends by region -

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

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

[Read the latest Issue – 3, 2020 of *Impacts: The Future of Global Real Estate*, in full.](#)

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

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

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

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

[Savills Covid-19 Resource Hub](#)

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2) Joseph Rowntree Foundation (JRF) -

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

UK Poverty 2020/21

Related topics – Housing; Work; Income and benefits

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

We are in the midst of the coronavirus storm – a turbulent time when all of us have felt insecurity and instability. But our analysis shows too many of us entered the pandemic already at risk of being cast adrift into poverty, while often lacking secure housing, a reliable income or adequate support. It also shows that those of us already struggling to keep our heads above water have often been hit the hardest. Our response to the pandemic should be measured by how just and compassionate it is to people in poverty, whether they were already experiencing hardship or have been swept into it.

This report highlights early indications of how poverty has changed in our society since the start of the coronavirus outbreak, as well as the situation revealed by the latest poverty data, collected before the outbreak. It examines overall changes to poverty, with sections looking at the impact of work, the social security system and housing. It also benefits from powerful insights from members of our Grassroots Poverty Action Group, who have direct experience of living on a low income.

Recommendations:

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

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

Related Links:

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

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

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

[JRF Spring Budget 2021 analysis](#)

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

3) The Smith Institute

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

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

September 2020

The Smith Institute's Affordable Housing Commission published a report into the national housing conversion fund.

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

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

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

The overarching case for a National Housing Conversion Fund rests not only on the urgent need to increase social and affordable

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housing and rebalance the housing system, but also as a quick and cost-effective way of supporting the economy as we move forward from – what we hope – is the worst of the pandemic. And, as demonstrated in this report, such a scheme could also improve housing conditions and contribute to the government's strategic ambitions to level up the economy and reduce carbon emissions.

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

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

July 2020

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

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

This research was commissioned against the backdrop of growing evidence of the impact that UC is having on rent payment behaviour and rent arrears, as well as broader concerns about how it is affecting the financial wellbeing of recipients. Much of the previous research in this field has focused on one or two housing providers. The intention of this research was to understand what the overall impact might be across multiple providers and locations. To achieve that objective the research covered 12 participating London boroughs, who collectively own over 210,000 homes – 13% of council housing in England. 1 Including data from these 12 boroughs also offered a larger sample of cases.

The study examined those making a new claim for the housing element of UC during a three-month period (July-September 2019) in the 12 London boroughs with final rental data running until December 2019. This falls after the roll-out of Universal Credit full service to all parts of London, which was completed by December 2018. It also follows a series of reforms made in 2018, including the abolition of the seven-day waiting period and the introduction of a two-week Housing Benefit (HB) run-on.

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

By examining this impact and tracing rent behaviour over time, the analysis points towards what kind of reforms might be needed to improve UC to the benefit of both tenants and social landlords which are presented in the report.

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

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Consumer Rights in the Private Rented Sector

July 2020

People who rent from a private landlord are at the sharp end of the housing crisis, but the truth is we have often more rights as consumers when we rent a car, buy a fridge-freezer, or take out a loan than we do as private renters.

This has been reinforced during the coronavirus crisis, with people spending more time at home and many realising just how precarious their housing situation is.

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

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

All things being equal: The final report and recommendations of the Enfield Poverty and Inequality Commission (EPIC)

January 2020

- This report presents the findings and recommendations of the Enfield Poverty and Inequality Commission. The Commission, chaired by Baroness Tyler of Enfield, was made up of a mix local and national stakeholders and experts and was supported by the Smith Institute.

To undertake a review of poverty and inequality in Enfield and set out recommendations, the Commission:

- Initiated a 'call for evidence' to understand the views of local people and organisations. A feedback account was set up and promoted and comment boxes were placed in Enfield's four hub libraries for member of the public to submit evidence.
- Considered relevant existing datasets across a range of available evidence bases.
- Engaged directly with local people, service providers, community organisations and businesses, through public meetings, focus groups, and one-to-one interviews.
- Considered best practice that has successfully been taken forward in Enfield and elsewhere that may be replicated or adapted for wider use.
- Held four Commission meetings to hear evidence on the three threads with follow up discussions.
- A deliberative 'solutions workshop' at Green Hall Community Centre in Edmonton, inviting organisations and members of the public who had engaged with the Commission to come together and formulate recommendations.

The Commission's work focussed on three inter-connecting themes.

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These were:

- **Living:** To what extent does who we are and where we live affect our life chances and the services we can access?
- **Learning:** What barriers prevent local people from accessing opportunities through education and training?
- **Earning:** How can people on low incomes be better supported to secure long-term economic prosperity?

[Read the full piece of research, 'All things being equal: The final report and recommendations of the Enfield Poverty and Inequality Commission'.](#)

Safe as Houses 3: Have government reforms to Universal Credit reduced the rent arrears of Southwark's tenants?

- This report was commissioned by the London Borough of Southwark. The aim of the report is to better understand the impact that Universal Credit (UC) has had on the rent payment behaviour of the borough's own social housing or "council" tenants.

The report focuses on two main questions: first, whether there has been an improvement in rent payment behaviour since reforms to UC were introduced in 2018; and second, to see what the impact of UC has been long after tenants have transitioned onto the new benefit.

[Read the full piece of research, 'Safe as Houses'.](#)

4) CBRE Research Blog: About Real Estate

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

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

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

5) CIBE – Chartered Institute of Building Engineers

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

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

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

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

Competence Requirements for new role of Building Safety Managers

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

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

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

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

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

[Access *Building Engineer* website](#)

6) RICS – Royal Institution of Chartered Surveyors

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

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

As of **June 2021**, the **latest news & insights** include:

- LGBTQ+ intergenerational living in Berlin: Lebensort Vielfalt,
- RICS leadership to create greener houses,
- Global ESG guidance for valuation – a practical approach,
- BCIS five-year forecast,
- [Celebrating the contribution of female surveyors to construction](#)

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- [Go to the new UK guidance note on residential properties with cladding](#)
- [The effect of Brexit on UK construction.](#)

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 **June 2021**, the latest CIOB Policy and Research include:

- **Future of Construction research** – *Aiming the Construction Industry for the Future: Recruiting from the military into construction.* Also access the latest Future of Construction - [CIOB Policy Team Newsletter – April 2021](#) (7th May 2021)
- **Ethics research** – *Understanding Mental Health in the Built Environment,*
- *Construction and the Modern Slavery Act: Tackling Exploitation in the UK,*
- *The State of Well-being in the Construction Industry,*
- *Building a Fairer System: Tackling modern slavery in construction supply chains,*
- **Economics and social impact research** – *The Real Face of Construction 2020: Socio-Economic Analysis of The True Value of The Built Environment*
- *Job Quality in the Irish Construction Sector* (22nd April 2021)
- **Education and skills research** – *Exploring the impact of the ageing population on the workforce and built environment*
- **The Wider Built Environment** – *Understanding the Value of Professionals and Professional Bodies.*

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

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

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

[Watch this quick video to find out how the House of Commons Library works](#)

Source: UK Parliament (2020) 'How the House of Commons Library works', YouTube [video]. Available at: youtube.com

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

Services that include Research, Resources, Training & Events,

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

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

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

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

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

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

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

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

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

1. Service industries: Key Economic Indicators
2. Tax strategy and government policy
3. Reducing the UK's aid spending in 2021

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

As of **June 2021** the latest [House of Commons Research](#):

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

1. Equality of access and outcomes in higher education in England,
2. Sexual harassment in education,
3. Further education funding in England,
4. Higher Education (Freedom of Speech) Bill 2021,
5. Oxbridge 'elitism'.

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

1. Housing an ageing population: a reading list,
2. Social rented housing (England): past trends and prospects,
3. Town centre regeneration,
4. Local authority data: housing supply, and
5. Environment Bill 2019-2021 and 2021-22:

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Under '**Housing and Planning**' and within 'Social policy', the top research briefings continued -

5 cont. Report on Committee and Remaining stages in the Commons.

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

1. Green Homes Grant,
2. The UK Emissions Trading Scheme,
3. UK and global emissions and temperature trends,
4. Climate change: an overview,
5. The UK-EU Trade and Cooperation Agreement: Level playing field, and
6. Reading list of UK and devolved Parliament and Assembly publications on the UK's withdrawal from the European Union and UK-EU future relations.

[House of Commons Library search](#) on '**construction industry**' identifies 18 key documents, that incl. 'Taxation in the construction industry', 'CITB – Construction Industry Training Board Levy', and '**The construction industry: statistics and policy, December 2019**' -

Abstract: Construction industry – employment, new orders, output. [Construction 2025](#), [The Farmer Review](#) and the [Construction Sector Deal](#) (part of the government's [Industrial Strategy](#)).

Key statistics – In 2018, the construction industry contributed £117 billion to the UK economy, 6% of the total.

Economic output in 2018 was slightly down on 2017, the first fall since 2013.

There are 2.4 million construction industry jobs in the UK in Q2 2019, 6.6% of all jobs. There are more 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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Property and Construction Statistics

Latest Property and Construction Statistics from RICS:

UK Economy and Property Market Update, May 2021

- Sharp rebound in economy expected to gather pace over coming months (see publication date).

Summary:

The economy is set to grow by somewhere between 5 and 7.5% this year (2021) creating a generally favourable environment for real estate as interest rates remain at rock bottom levels into 2022. Structural challenges will continue to depress some parts of the commercial property market but investment activity elsewhere will gain further momentum. Private housing and infrastructure will lead the acceleration in output growth in the construction sector.

Construction Sector –

The latest ONS construction data shows that output is now picking up smartly with the March number 5.8% higher than February and 6% up on the same month in 2020.

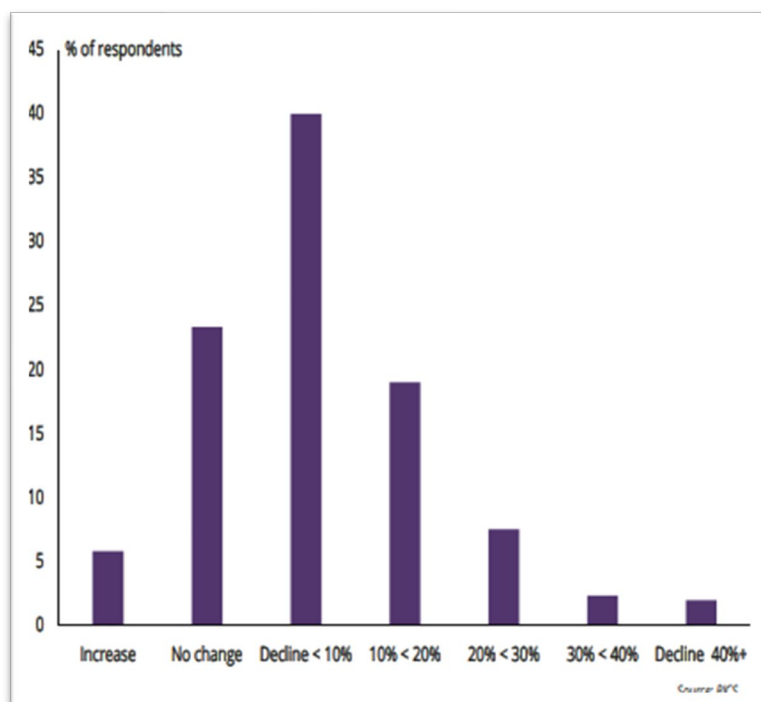
Significantly, the 12 months expectations data shows workloads are anticipated gathering momentum across all sectors although the net balance readings point to private residential leading the way. Updated forecasts from the Construction Products Association (CPA) suggest industry output may grow by close to 13% this year followed by around 5% expansion in 2022. Within this, the CPA are envisaging infrastructure output climbing by almost 30% over 2021 and even the laggardly private commercial sector to post a gain.

Critically, the fear of a race to the bottom in terms of pricing does not appear to be manifesting itself in the results to the RICS Monitor. More than 80% of respondents indicated that they are not receiving tenders/bids below realistically prepared cost estimates. In addition, where there was any evidence of this behaviour, contributors typically suggested the pricing was within 5% of costs.

Alongside this, the RICS survey also sought to gauge the potential hit to productivity from any change in work practices linked to COVID. When this question was asked in the wake of the onset of the pandemic (Q2 2020), the average loss of productivity was viewed at being around 16%. It is evident that the industry has quickly learnt to adapt to the new environment with the latest results putting the loss at just 5% (chart 12).

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Chart 12: The hit to productivity as a result of changing work practices in response to COVID is now put on average at 5%



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book (Q4 2020)*, London: RICS, p11 - Chart 20.

[Read the full piece of research 'RICS UK Property and Market Chart Book, Q4 2020'](#)

UK Economy and Property Market Chart Book, Q4 2020

- Output is likely to drop again in the last quarter of the year.

UK Residential Market Survey: April 2021

- Strong demand and a lack of new instructions driving prices higher.

- Demand growth increasingly outstripping supply,
- House price inflation accelerates further across the UK,
- Lack of supply also evident across the letting market.

The April 2021 RICS UK Residential Survey results point to buyer demand remaining firm across the market, while the flow of properties being listed for sale has lost impetus of late.

As a result, respondents to the survey frequently highlight this mismatch between supply and demand to be a critical factor in driving up house prices, with growth reportedly accelerating further across all parts of the UK.

In terms of new buyer demand, a headline net balance of +44% of contributors cited a pick-up in enquiries during April (see publication date). This is virtually unchanged from a reading of +43% previously and therefore remains indicative of a solid uptick in buyer demand. What's more, the new buyer enquiries series is

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positive, to a greater or lesser degree, across all areas of the UK. Alongside this, newly agreed sales also rose over the month, evidenced by a net balance of +34% of respondents noting an increase (a slight easing on +48% last time). Looking ahead, near term sales expectations remain comfortably positive at the national level, posting a net balance of +23%. With regards to the twelve-month view, contributors anticipate a cooling in sales growth further ahead, with the headline net balance standing at just +12%. When disaggregated, sales expectations for the coming year are significantly stronger than the national average in Northern Ireland, Scotland and London.

The survey's headline measure of house price growth rose again over the month, with a net balance of +75% of respondents noting an increase in prices during April. This is up from a reading of +62% back in March (reported previously within *Knowledge Foundations*) and has now become successively more elevated in each of the last three reports. Furthermore, all UK regions/countries are now seeing a sharp pick-up in house price inflation.

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

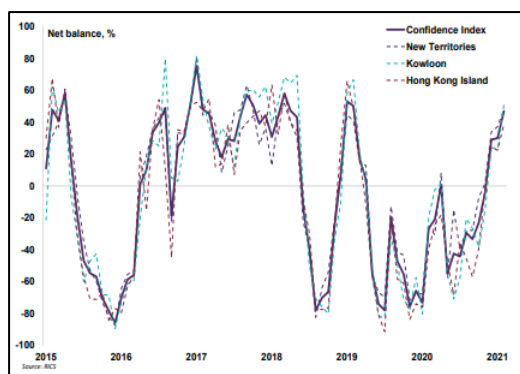
RICS - SPACIOUS 千居 Hong Kong Residential Monitor / Market Survey: April 2021

- Rents stabilize as housing sentiment maintains positive trajectory

- Confidence Index rises to highest level since April 2019,
- Prices seen to have risen, expected to continue to rise over the next year as sales volumes increase,
- Rents stabilize, expected to pick up for the first time in two years.

Hong Kong's housing market recovery continues to gain speed according to responses to the RICS-Spacious Hong Kong Residential Monitor in April 2021. The Confidence Index* (CI), shown in Chart 1, rose to +47 in April (vs +30 in March), a level not reached since April 2019. Robust fundamentals continue to underpin the housing market's strength.

Chart 1: Confidence Index*:



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

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

Demand from both owner-occupiers and investors is increasing, while demand from residents of mainland China has stabilized to a degree. The increase in demand is also being observed across all three of Hong Kong's regions tracked by this survey (New Territories, Kowloon, Hong Kong Island). Finally, although the supply of properties for sale continues to rise, in net balance terms this appears to be doing so at a slower pace than demand is increasing.

Given these supply-demand dynamics, it is perhaps unsurprising that a majority of respondents noted that home prices increased over the past three months (72% in April, 65% in March).

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

Global Commercial Property Monitors, Q1 2021

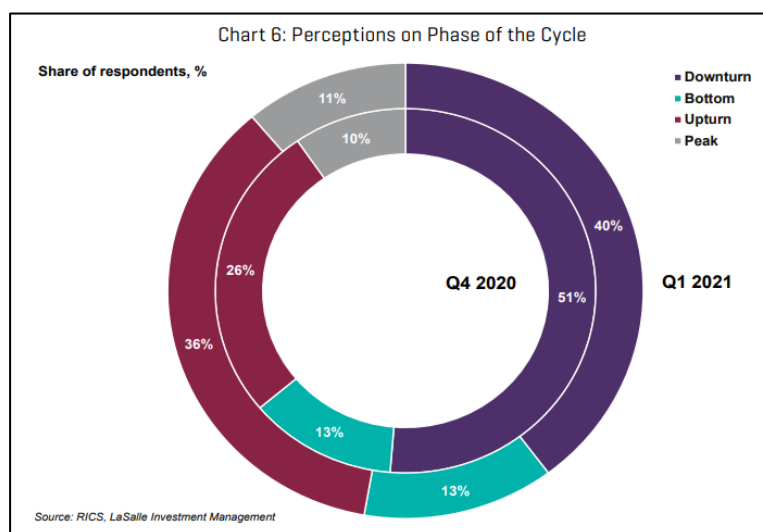
- Sentiment continues to gradually recover but sector divergence remains pronounced.

- Real estate sentiment edged up in Q1, albeit still remaining in negative territory on key metrics,
- Industrials to remain strongest part of market followed by multi-family and data centres,
- Concerns over valuation persist but respondents view real estate edging towards upturn phase of cycle.

Valuation concerns ease a little further

A striking feature of the feedback received in the Q1 Monitor is that the responses to the question about where markets are in the real estate cycle (Chart 6) are consistent with the gradual turnaround in sentiment highlighted previously.

Chart 6: Perceptions on Phase of the Cycle:



Source: RICS Economics Research: *RICS Global Property Monitors, Q1 2021*, London: RICS, p3 - Chart 6

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At a global level, 39% of respondents now view the market as being in a downturn phase compared with 51% in the previous quarter. In addition, both periods saw 13% of respondents with the view that the market was at the bottom of cycle. Significantly, the share seeing the market as being in the upturn phase has climbed from just over one-quarter to more than one-third.

[Read the latest RICS Global Commercial Property Monitor, Q1 2021 in full.](#)

Latest Statistics from the Office for National Statistics (ONS)

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

Construction Industry highlights include – Construction output in Great Britain: **March 2021**, new orders and Construction Output Price Indices, **January to March 2021: March 2021**

- Short-term measures of output by the construction industry, contracts awarded for new construction work in Great Britain and a summary of the Construction Output Price Indices (OPIs) in the UK for Quarter 1 (January to March) 2021.

What's covered in the latest bulletin?

- Monthly construction output grew by 5.8% in March 2021 because of growth in both new work (6.7%) and repair and maintenance (4.4%).

- Construction output in March 2021 was 2.4% (£334 million) above the February 2020 pre-pandemic level: new work was 0.5% (£44 million) below this level and repair and maintenance work was 7.7% (£377 million) above.

- Quarterly construction output grew by 2.6% in Quarter 1 (Jan to Mar) 2021 compared with Quarter 4 (Oct to Dec) 2020, this was driven in both new work (2.8%) and repair and maintenance.

[Read the full statistical bulletin, 'Construction output in Great Britain: March 2021, new orders and Construction Output Price Indices, January to March 2021: March 2021](#)

Latest Statistics from HSE – Health and Safety Executive

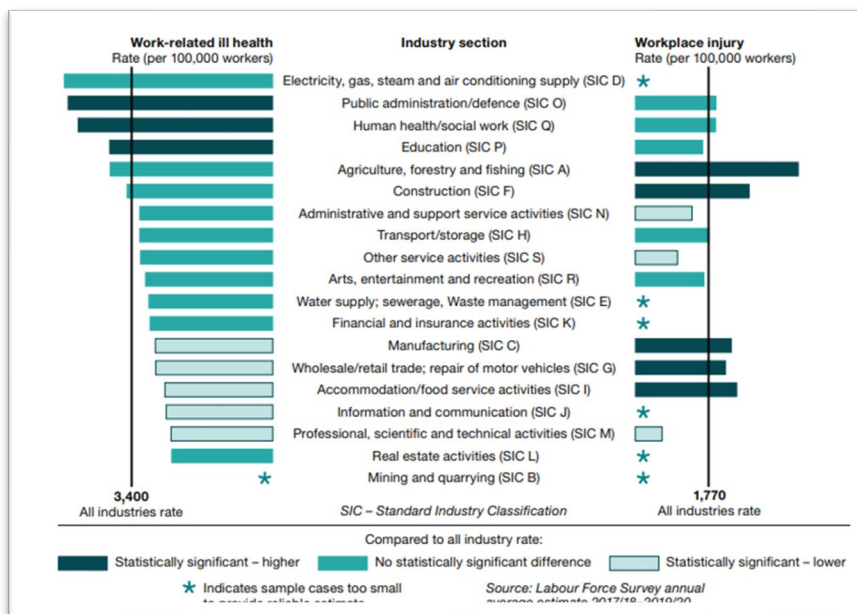
Latest Key figures for Great Britain (2019/20)

- **1.6 million** working people suffering from a work-related illness.
- **2,446** mesothelioma deaths due to past asbestos exposures (2018)
- **111** workers killed at work.

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- **693,000** working people sustain an injury at work according to the Labour Force Survey
- **65,427** injuries to employees reported under RIDDOR.
- **38.8 million** working days lost due to work-related illness and workplace injury.
- **£16.2 billion** estimated cost of injuries and ill health from current working conditions (2018/19)

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



© Crown copyright 2021

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

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

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

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e-Journal Review

Built Environment Industry Journal titles reviewed by UCEM e-Library

MODUS

MODUS - the RICS magazine that brings you the latest news and views, expert advice and in-depth features spanning the breadth of the surveying profession around the world.

In the latest digital **MODUS (June 2021)**, RICS takes a look at ‘Defining our future’ – To attract the best talent you must create an

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inclusive environment. RICS is marking Price Month (June) in a number of ways.

Subject Terms/Keywords: RICS standards and guidance; Diversity and inclusion; Projects and people

Latest articles within *Modus*:

- **RICS Regulatory Tribunal hearings Q1 2021** – The Regulatory Tribunal (which includes an appeal panel) operates independently of RICS. It provides the profession with a body that can reach effective, fair and independent decisions on a range of disciplinary, registration and appeals matters. These matters can include decisions on cases of alleged misconduct or lack of competence. The Tribunal sits as panels of three to consider and hear cases in accordance with the powers in the RICS byelaws, regulations and relevant rules.

Subject Terms/Keywords: Ethical practice.

- **Should there be a wealth tax on property?** – Economist Arun Advani explains why a tax on the equity held within a property would be a big step towards greater social equality.

Subject Terms/Keywords: Economics; Residential valuation

- **Make mine ... cathedral in the rocks** – Mineral extraction has a poor reputation – often deservedly so – among conservationists, but once the heavy plant and workers move away, the old sites can be transformed.

Subject Terms/Keywords: Cities and placemaking; Environmental management

- **Mine how you go: beware the sustainability gap** – Creating some of the greenest energy can involve some of the polluting industries – mining is crucial to many renewable technologies. As our appetite for all things eco grows, how can we improve the way we source the minerals it depends upon?

Subject Terms/Keywords: Cities and placemaking; Environmental management.

- **6 green giant mega-sites generating renewable energy** – Renewable energy projects have become truly super-sized in recent years, making large-scale provision increasingly viable – here are the six of the biggest.

Subject Terms/Keywords: Sustainability.

- **Firefighting – saving the world's forests** – The pandemic overshadowed the fact that 2020 might be the worst year on record for wildfires; can new technology help the areas that have been ravaged?

Subject Terms/Keywords: Natural disasters; Environmental management; Sustainability

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- **Out of the Ashes** – Wildfires are growing in number and strength, tearing across regions where they had never been imagined before. Around the world, they are causing destruction and environmental chaos.

Subject Terms/Keywords: Natural disasters

- **Women on top: making surveying more female- friendly** – Three RICS presidents talk about how the industry has become more inclusive over the course of their careers – and how it can be improved still further.

Subject Terms/Keywords: Diversity and inclusion; Learning and development.

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

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

Related Links:

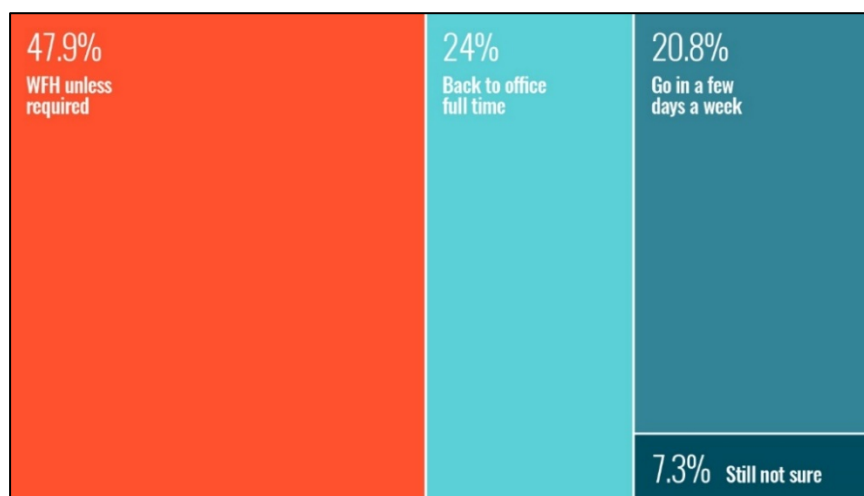
- **Another day at the (home) office** - As lockdowns continue for the foreseeable future (see publication date), stay motivated and mentally resilient while WFH with tips from the professionals who've been doing it for years.

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

- **Working from home: how was it for you?** Companies are calling for staff to get back to the office but the data (as shown overleaf) suggests that employees aren't all ready to return to the commute just yet.

Subject Terms/Keywords: Running your business.

Working from home, how was it for you?



Source: RICS (2020) 'The results of the RICS Modus Twitter poll on home working', *Modus*, 1 October, London: RICS.

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Please note: In addition to *MODUS*, RICS publishes other journals that are free to view online incl.

1. **[Construction Journal](#)** - The journal helps **quantity surveyors** and project managers with the technical and professional aspects of their day jobs and keep up to date with developments and practical matters in the profession. It covers topics including contracts, cost management, procurement, construction law and regulations, communication, and project management skills.
2. **[Built Environment Journal](#)** (incl. Building Surveying, Building Conservation, and Building Control) - Coverage keeps practitioners in the disciplines of building surveying, building control, and building conservation up to date on the latest developments, products, standards, and guidance.
3. **[Land Journal](#)** - The journal emphasises the crossovers in these practice areas and their global nature, with articles contributed by experts from all over the world.
4. **[Property Journal](#)** - The journal contains high-quality technical material in clearly defined sections, as well as some material that crosses professional groups to reach a wider audience.

Further information can be accessed via the RICS Website, Home > News & Insights > **[RICS Publications](#)** [online].

The Heritage Alliance's (HA) **[Heritage Update](#)**, the latest edition, **June 2021 – Issue 444** focusing on – A round-up of a busy policy fortnight; The impact of COVID-19 on Heritage. Also: Recordings from the **#HeritageDigitalNow** event on **Engaging Digital Audiences**, available on the **[HA project portal](#)** - access webinars on diversifying digital audiences, how to plan great webinars, how to use exceptions to copyright in your digital activities & how to encourage your audience to create user-generated content.

Institute of Workplace and Facilities Management (IWFM) **[Facilitate](#)**, the latest **May/June '21** edition focusing on the IWFM *Market Outlook 2021* report released April '21 and highlighted that while most in the FM profession felt optimistic about the next year, some had legitimate concerns such as a potentially lower demand for services as organisations reduce their occupied spaces.

[Contractors World International](#),

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

Subscriptions available via the VLE e-Library include:

[Construction Information Service \(CIS\) Insight 2021](#). The Latest Edition focuses on – **The 2021 NBS guide to collaborative construction**, and covers -

- **Construction and the new normal,**
- **The benefits of collaborative digital working,** and
- **Six reasons to embrace collaborative construction now.**

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

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

Henry Stewart Publications and include the following e-Journals:

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

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

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

In-depth articles and case studies scheduled for the new volume, **Vol 10 (3) (2020-21)** of **Corporate Real Estate Journal** incl.

- 1. Managing global property portfolios, transactions, and teams: A primer for corporate real estate executives – Part 2: Communications**
- 2. Managing global property portfolios, transactions, and teams: A primer for corporate real estate executives - Part 3: Assembling and managing in-market teams**
- 3. Fresh perspectives on the future of the office: A way forward**
- 4. Rapidly changing landscape: Commercial real estate and the new perspective**
- 5. An environmental, social and governance programme for corporate real estate and facilities departments**
- 6. Portfolio management and occupancy planning in a post-pandemic world**
- 7. COVID-19 and the economic implications for office occupiers**
- 8. Book review – Where is My Office? Reimagining the Workplace for the 21st Century**

Vol 10 (2) (2020-21) of **Corporate Real Estate Journal** incl.

- 1. The importance of community in public-private partnerships and development**

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2. Managing global property portfolios, transactions, and teams: A primer for corporate real estate executives – Part 1
3. Tokenisation of corporate real estate on the blockchain: New strategies for corporate ownership and financial management
4. Telia and Veolia: A case study of shifting from supplier to strategic partner
5. Back to the future: Changing business priorities have accelerated trends in the structure and approach to corporate real estate outsourcing
6. The United States civil engineer transformation initiative: A case study of successfully leading CRE organisational change management

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

1. COVID-19: Reimagine: how and where the world will work differently
 2. Global Warming, COVID-19, and a new world for conducting business
 3. Gen Z and the workplace: Can we all get along?
 4. Recognising the socio-technical opportunity of workplace: An analysis of early responses to COVID-19
 5. The technology-enabled future of real estate? A present-day necessity
 6. Workplace strategy and scenario planning: Moving beyond the tangible to understand the future of work and place in a post COVID-19 world
 7. Exploring the meaning of 'workplace' in a post-pandemic world: The future of corporate real estate in delivering 'place'
 8. New demands for resilience in real estate: Resilience and adaptability after the COVID-19 pandemic
 9. Editorial thought pieces
- CRE leadership: Crisis demands transition to a digital ecosystem-based home office analysis during COVID-19**
10. COVID-19: Implications for real estate.

HSTalks

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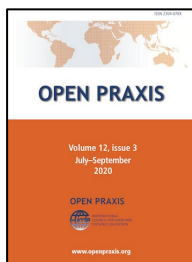
HSTalks is a member of the Henry Stewart Group which has been a leader in providing graduate and continuing professional education in science, business, and management for over 40 years through peer reviewed vocational journals (such as the *Corporate Real Estate Journal*), conferences and online education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

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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.



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

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

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

Research articles include:

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

Innovative practice articles:

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

[Back to top](#)**European Journal of Open, Distance and E-Learning**

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

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

- 'Building Digital Capacity for Higher Education Teachers: Recognising Professional Development Through a National Peer Triad Digital Badge Ecosystem',
- 'Cultivating Self-Regulated Learning in Flipped EFL Courses: A Model for Course Design',
- **'Transcript and Accessibility: Student Views from Using Webinars in Built Environment Education'**, by **UCEM's Tharindu R. Liyanagunawardena**
- 'Vector AR3-APP – A Good-Practice Example of Learning with Augmented Reality',
- 'Educators' Digital Competence in Swedish Rural Schools',
- 'Proposition for the Introduction of the Concept Telemathesis in Videoconferencing in Distance Education',
- 'Developing E-Authentication for E-Assessment'
- 'Diversity of Students Testing the System in Higher Education'.

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

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

The OLC **Online Learning Journal**, latest edition, **Vol 25(2)**. As OLC celebrate the 25th anniversary of *Online Learning* they are committed to publishing high quality studies in the broad field of online learning.

This second issue of 2021 contains 16 papers on a wide range of topics. This research is organized into sections on:

- Faculty development,
- Empirical studies,
- Blended learning,
- Massive Open Online Courses (MOOC) research,
- k-12 education, and
- student issues.

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- 'Professional Development and ICT: English Language Teachers' Voices'.

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- 'Moderating Relationships: Non-Designer Instructors Teaching Presence and Distance Learners' Cognitive Presence',
- 'The Community of Inquiry in Writing Studies Survey: Interpreting Social Presence in Disciplinary Contexts',
- 'Learner Presence Matters: A Learner-Centered Exploration into the Community of Enquiry Framework',
- 'Powerful or Powerless? Chief Online Education Officers' Legitimate Power over Online Program Quality in U.S. Higher Education Institutions'.

Blended Learning

- 'Taking Away Excuses to Quit: The Role of Structural Supports in Completion and Learning within Online Professional Development'.

K-12 Education

- 'Motivation among Special Education Students and their Parents for Switching to an Online School: Survey Responses and Emergent Themes'.

Student Issues, Pedagogy, Tools, and Support

- 'Functionality, Impact, and Satisfaction of a Web-Based and Mobile Application Support Program for Students with Autism Spectrum Disorder',

Student Issues, Pedagogy, Tools, and Support cont.

- 'Realistic Job Preview as an Alternative Tool to Improve Student Readiness for Online Learning',
- 'Examining Students' Online Course Perceptions and Comparing Student Performance Outcomes in Online and Face to Face Classrooms',
- 'Investigating E-Learning Motivational Strategies of Higher Education Learners against Online Distractors',
- 'Designing Educational Videos for University Websites Based on Students' Preferences',
- 'Exploring the Impact of an Open Access Mindfulness Course with Online Graduate Students: A Mixed Methods Explanatory Sequential Study',
- 'Piloting Learning Analytics in a Multidisciplinary Online Program'.

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

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

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

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

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e-Book Review

Managing Diversity and Inclusion in the Real Estate Sector

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

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

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

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

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

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

As this book states, “Motivation is central to all things human” and Online teaching and learning are no different. The authors of this

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free online book propose the TEC-VARIETY framework as a solution to the lack of meaningful engagement.

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

[Access the free online book *Adding Some TEC-VARIETY*](#)

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

Studying at a Distance

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

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

Directory of Open Access Books (DOAB)

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

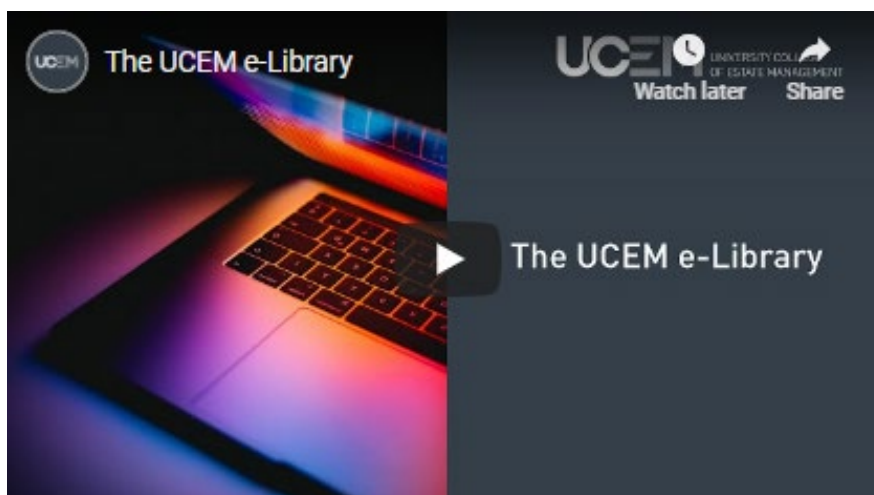
[Access the Directory of Open Access Books \(DOAB\)](#)[Back to top](#)**UCEM e-Library Portrait****The aim of the e-Library**

The aim of the e-Library is to:

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



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

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

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

What resources are available in the UCEM e-Library?

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

The sections that make up the UCEM e-Library:



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

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

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

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

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.

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



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Emerald Insight – the online platform for Emerald Publishing

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

[June 2021] - Here are some Open Access Journal articles available via Emerald, all around the theme of '**COVID-19 and impact on Universities and the shift to online learning**'.

Note: The following article examples are freely available via [Emerald Publishing Open Access](#):

1. Ratten V (2020) 'Coronavirus (Covid-19) and the entrepreneurship education community', *Journal of Enterprising Communities: People and Places in the Global Economy*, Vol 14(5), pp753-764, Emerald Publishing Ltd, and
2. Nanath, K, Sajjad, A, and Kaitheri, S (2021) 'Decision-making system for higher education university selection: comparison of priorities pre- and post-covid', *Journal of Applied Research in Higher Education*, Vol(No): ahead of print, Emerald Publishing Ltd.

Remember:

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

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Student Career Services

UCEM Career Services

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

[Access UCEM Career Services](#)

Building Better Property Professionals



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

Property Elite provides training and CPD services for property professionals, including students, APC candidates and corporate clients.

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

This month (**June 2021**) the **Hot Top Highlight – Valuation Duty of Care Caselaw**

In this latest blog article, Property Elite refers to RICS Standards and Guidance: **Risk, liability and insurance in valuation**, 2nd edn., January 2018.

In this week's blog, Property Elite takes a look at caselaw relating to a valuer's duty of care. In future blogs, they will look at other areas of valuation caselaw, such as the margin of acceptable error.

Always remember that claims are a complex area. Legal advice should always be sought if in doubt or in the event of a claim.

This blog is, therefore, essential reading for all candidates pursuing Valuation as a technical competency, irrespective of your pathway.

What is a duty of care?

Valuers owe a duty of care towards their clients, both in contract and in tort (for negligence). They may also owe a duty of care towards third parties, in certain circumstances.

In a claim (for breach of contract or negligence), the Court will ask whether the 'valuation given was one that no reasonable valuer in the actual valuer's position could have given' (**RICS**)

A claim for breach of contract can only be brought by a party to the contract, i.e. the client. However, if the valuer expressly accepts a duty of care (or is assumed to have done so) then they may also be liable to third parties (who were not party to the valuation contract or Terms of Engagement).

What caselaw is relevant?

There is a myriad of caselaw of relevance to valuers. However, in this blog we will take a look at five cases of particular relevance to RICS APC and AssocRICS candidates incl.

- 1) **Smith v Bush (1990)**
- 2) **Harris v Wyre Forest (1989)**

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- 3) **Scullion v Bank of Scotland (2011)**
- 4) **Freemont (Denbigh) Ltd v Knight Frank LLP (2014)**
- 5) **Hubbard v Bank of Scotland Plc (2014)**

[Further details and access to RICS \(2018\) Risk, liability and insurance in valuation, and the Property Elite blog entitled, 'Valuation Duty of Care Caselaw'.](#)

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

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

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

[Access Property Elite's 'Building Better Property Professionals', Latest Blogs](#)

Other related web-links

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

[TARGETjobs](#) – All TARGETjobs graduate career guides and directories are available for you to view online and download for future reference and include **[Property 2020](#)**, **[Engineering 2021](#)**, and **[Careers Survival Pack](#)**.

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

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

Building People



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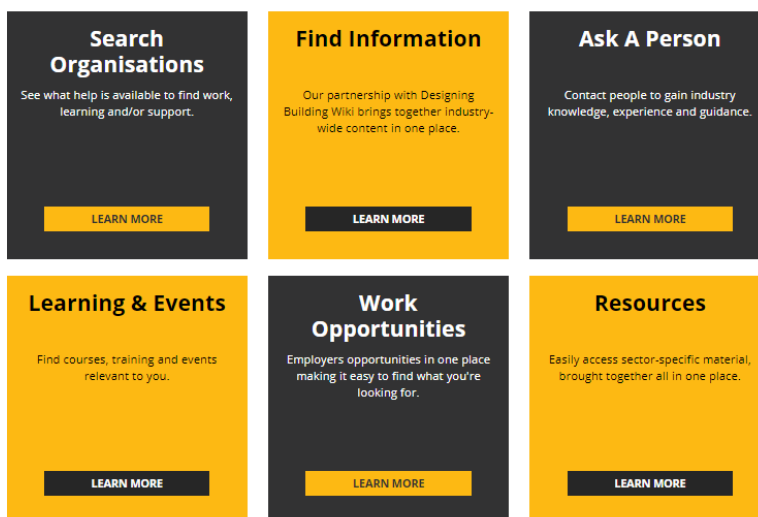
Enabling connections for a competent, diverse, and valued built environment workforce

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

In 2018 UCEM’s widening participation ambitions were boosted after acquiring the innovative Built Environment digital network. ‘Building People’, a social enterprise that aims to connect people traditionally not involved in the Built Environment sector with employers seeking to plug the skills gap via an online platform, is now a subsidiary of UCEM.

People Wiki:

What are you looking for?



© Building People 2021

Building People and Designing Buildings Wiki have launched People Wiki, a free, open access knowledge sharing platform for diversity and inclusion, skills and careers, and social value.

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

The launch of People Wiki is a crucial part of Building People's ambition to create a single platform that brings together a multitude of previously fragmented information, knowledge, resources, opportunities, and needs focused on diversity and inclusion, skills and careers, and social value. This platform is now live and provides users with options to find organisations that can support them with built environment careers, as well as access to information and resources. In September, the platform will expand to include directories that bring together events, courses, and work

vacancies (with an initial prototype focus on the surveying profession).

People Wiki has been created as part of Designing Buildings Wiki and is fully linked to its 10,000 existing articles and easily accessible by its 7.5 million annual users. This collaboration with an established and respected industry knowledge base will help Building People achieve its vision of a built environment that improves social and economic value by being better connected, more diverse and more inclusive.

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UCEM Sustainability Hub

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

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

Building Research Establishment (BRE) Sustainability

- Practical guidance and support for delivering genuine sustainability benefits.

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

[Access BRE Sustainability](#)

The Routledge Sustainability Hub

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

[Access the Routledge Sustainability Hub](#)

The Green Agenda

Within the Savills Market Trends – 'Real estate investment in 2021: global outlook' (mentioned earlier within this issue of *Knowledge Foundations*) they covered 'The Green Agenda' –

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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.](#)

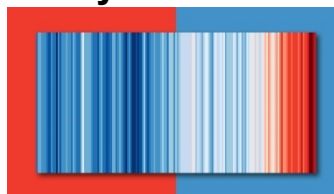
The Pandemic Has Taken Cars Off Urban Streets. Will It Last?

- With a sharp drop in auto traffic due to Coronavirus, cities around the globe have closed streets to cars and expanded pedestrian thoroughfares and bikes lanes.

But as life edges back to normal (see publication date), will these initiatives survive, especially if virus-wary citizens shun mass transit?

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

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

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will incorporate the UK's share of international aviation and shipping emissions.

This comes ahead of prime minister Boris Johnson addressing the opening session of the US Leaders' Summit on Climate, hosted by President Biden on **Earth Day (22 April)**. Johnson will urge 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'

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

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

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

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

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

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

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

China Dialogue – Policy briefing: EU-China climate engagement

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

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[Access China Dialogue reports online.](#)

QSAND and the Sustainability Goals

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



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

Note: Use of Wikis as a reference site

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

This can be avoided by following two simple rules:

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

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Information Governance

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

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 [June 2021]

[Facebook v Apple: The ad tracking row heats up](#)

Data Privacy: New Apple iOS (Apple's Operating System) update includes new privacy features.

Apple has announced its new iOS 14.5 update for the iPhone and iPad, meaning users will have to "opt in" if they want their online activity tracked by companies.

[Back to top](#)**GDPR – What's new? [June 2021] -**

The Information Commissioner's Office (ICO) website has a 'What's new' section that is updated on a regular basis to highlight and link to any changes as they occur, for example:

April 21 – The ICO have published guidance on the **National Security Provisions** in Part 3 of the DPA18 and updated the **Guide to Intelligence Services Processing**.

March 21 – The ICO have published new guidance on the **national security exemption** in Part 2 of the DPA18.

January 21 - The ICO have published an Updated BCR communication following the EU-UK Trade and Co-operation Agreement to the **International transfers after the UK exit from the EU Implementation Period**.

December 2020 - The ICO published the new **Data Sharing Code of Practice**, alongside a **data sharing information hub** with further resources and support.

In addition, the ICO published detailed guidance on **sharing personal data with law enforcement authorities**, and detailed guidance on **data sharing and reuse of data by competent authorities for non-law enforcement purposes**.

Nov. 2020 - The ICO published detailed guidance on **criminal offence data**, & Sept. 2020 - The **Accountability Framework**.

February 2020 – The ICO published detailed guidance on **codes of conduct** and **certification schemes**.

Access the Information Commissioner's Office 'What's new?' section of their website

ICO Latest News [June 2021] -

March 2021 – **Digital Regulation Cooperation Forum (DRCF) publishes its first annual plan of work** – On 10 March 2021 **The DRCF outlined its priorities for the coming year**, marking a step-change in coordination of regulation across digital and online services.

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

It can be found at **ICO > For Organisations > Toolkit for organisations considering using data analytics**

January 2021 – **The Information Commissioner looks ahead to 2021** - The ICO's immediate focus remains supporting organisations through the impacts of COVID-19.

The ICO have prioritised providing **advice and support on data protection related aspects of the pandemic** since the start, and will continue to do so, adjusting and responding to the new challenges the country will face until, well, 'all this is finished'. That

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work includes protecting people's rights and making sure data protecting is considered at the earliest stage of any innovations.

Maintaining data flows for a digital world – Information Commissioner Elizabeth Denham looks at the data protection aspects of the recently agreed UK-EU trade agreement.

December 2020 – **ICO calls on UK businesses to prepare to keep data flowing at the end of the transition period.**

November 2020 - **UK political parties must improve data protection practices.**

August 2020 - **Global privacy expectations of video teleconference providers** –

July 2020 - The Covid-19 pandemic has resulted in a sharp uptake in the use of video teleconferencing software, increasing risks around the collection and use of personal information.

Data protection and privacy authorities from around the world have **published on 21 July 2020 an open letter** to video teleconferencing companies, reminding them of their obligations to comply with the law and handle people's information responsibly, and provide principles to help identify and address key privacy risks to better protect people's personal information.

Further guidance provided by the ICO.

- **Freedom of Information Self-assessment toolkit** launched in 2020 helps identify gaps in compliance.
- Further updates have been made to **guidance for handling Subject Access Requests** including
- a **step-by-step guide for small businesses**
- **Building a controller-to-controller contract** + template contract with guidance

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

Copyright

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

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

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

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

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



[Access free copies of this book \(in PDF and EPUB formats\)](#)

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.](#)

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Latest Copyright News

Article 13: UK will not implement EU copyright law.

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

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

EU member states have until 7 June 2021 to implement the new reforms, but the UK will have left the EU by then.

Copyright is the legal right that allows an artist to protect how their original work is used.

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

Government Guidance – Changes to copyright law from 1 January 2021

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

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

Keeping abreast of the latest developments in Information Governance:

[Copyright 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

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

The CITE Forum is a place to discuss the CLA's technology and licence offerings (such as the Digital Content Store) but also an opportunity for Higher Education Institute's to network, share and disseminate relevant copyright information.

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].

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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 10th May and in association with Naomi Korn Associates, as well as great speakers and further experts in the field in attendance. This conference provided an opportunity to delve deeper into copyright issues and gain a better understanding of how policy impacts on libraries and the information sector and covered the following:

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

Sessions covered broad copyright impact for the profession incl.

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

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

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- **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.

- **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

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

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

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

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

In this talk *Priya Haria: Content, Licencing, and Intellectual Property Assistant, The Open University* will talk about the opportunities and challenges to The Open University in relation copyright and licencing. The effect of Covid19 has led other organisations to consider delivering courses online. Priya will be able to provide a unique perspective in this area because,

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The Open University is a worldwide leader in teaching and delivering courses online for a number of years. Priya will also discuss how copyright and licencing opportunities allow an organisation like The Open University to expand their reach in delivering courses.

[#CILIPCopy21](#) / [#copyright](#)

The Challenges of Remote Working at Present

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

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

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

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

1. **Have a clear statement to all staff** stressing that "The protection of personal data that we hold, and use is important to us and must be handled at all times in a way that is compliant with data protection law and our Data Protection and Privacy policies. While we have to adapt to comply with the official guidance, we will adjust our working processes to allow us to deliver our services. These are time limited instructions that will be kept under review. At the end of the period then all data that is held temporarily on personal devices as a direct result of this exceptional times, will be deleted." (Tullo 2020)
2. **Set out what use of data**, contact lists, customer documents are being allowed.
3. As part of this exceptional response to homeworking **keep a full record of where staff are working from and what equipment they are using**.
4. **State that you have assessed the best way of ensuring homeworking efficiency** and are proposing that personal devices and mobile phones can be used. That you will review this [weekly seems sensible at present] in line with experience and how staff report it is working.
5. **Reissue and emphasise your usual security arrangements –** Virus and password protection, not leaving data visible to others, having a PIN code, or not sharing their device with others in their family or household.
6. **Take care to be aware where data is being stored**, even if temporary so that the security risk is managed and assessed.

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7. For the **weekly reviews** – have your Senior Leadership Team note the number of staff using personal devices, any queries, or issues they are finding and demonstrate that you are monitoring the situation and are flexible in closing it down if any specific concerns arise.
8. Choose your collaboration tool of choice and consider recording online meetings and note actions especially where team members are geographically spread out and where broadband speeds and kit may vary in quality.
9. You might also consider having a standard introduction for homeworking staff to explain that they are homeworking and not in the office, so callers understand the position.
10. This is where a nominated Data Protection Officer [DPO] or Data Officer can support the senior team in the messaging to colleagues.

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

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).

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Please note: There are regular updates -

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

#BE Informed

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

“Perseverance will get you anywhere.”

@NASAPersevere / #NASAPersevere

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A to Z of useful references and web-links:

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A

Advance HE (Previously HEA – Higher Education Academy) is dedicated to helping higher education shape its future. Providing insight, enhancing organisational performance, developing, and connecting people, and accrediting achievements. Advance HE [online]. Further information is available at: www.advance-he.ac.uk [accessed 25 June 2021]

American Society of Civil Engineers (ASCE) Civil Engineering database provides free access to over 80 thousand abstracts taken from ASCE publications since 1973. ASCE [online]. Further information is available at: www.asce.org [accessed 25 June 2021]

Association of Researchers in Construction Management (ARCOM) brings together all those interested in construction management research. It aims to further the advancement of knowledge in all aspects of management in construction by support education, dissemination, and research. ARCOM [online]. Further information available at: www.arcom.ac.uk [accessed 25 June 2021]

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

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

ARCOM Newsletters - contains the latest news from the industry.

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B

BBC Education [online]. Further information available at: www.bbc.co.uk/news/education [accessed 25 June 2021]

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

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

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

information is available at: www.cdbb.cam.ac.uk/AboutDBB/FAQs [accessed 25 June 2021]. Please refer to question 9 – What is the Digital Built Britain Programme? specifically.

BIMForum – The BIMForum’s mission is to facilitate and accelerate the adoption of building information modelling (BIM) in the AEC (Architecture, Engineering and Construction) industry. Further information is available via the BIMForum Website [online] and at: <http://bimforum.org> [accessed 25 June 2021]

BOMA International (Building Owners and Managers Association International) – a federation of 91 BOMA U.S. associations and 17 international affiliates. Founded in 1907, BOMA’s mission is to advance a vibrant commercial real estate industry through advocacy, influence, and knowledge. **BOMA Research and Resources** [online] and available at: www.boma.org/BOMA/Research-Resources [accessed 25 June 2021]

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

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

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

British Property Federation (BPF) – The British Property Federation is a membership organisation devoted to representing the interests of all those involved in real estate ownership and investment. BPF [online]. Further information available at: <https://bpf.org.uk> [accessed 25 June 2021]

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

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

Building Design Directory [online] – provides construction and environmental products / services / information for Architects, Engineers and Facility Managers. Further information is available at: www.buildingdesign.co.uk [accessed 25 June 2021]

Building Engineer [online] – Building Engineer website covers news and insights from the following topics: Building & Fire Safety; Business & Management; Construction & Building Materials; Energy & Sustainability; Health, Safety & Wellbeing; Policy & Regulations; Refurbishment; Technology & Digital Construction. Further information is available at: www.buildingengineer.org.uk/ [accessed 25 June 2021]

Building People - a technology platform and collaborative network, that enables connections and seeks to reduce the skills shortages across the Built Environment. Building People [online]. Further information is available at: www.buildingpeople.org.uk [accessed 25 June 2021]

Building Research Establishment (BRE) [online] is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries. Further information available at: <https://bregroup.com/about-us> [accessed 25 June 2021]

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

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

Building Services Research and Information Association (BSRIA) [online]. BSRIA is a test, instrumentation, research, and consultancy organisation, providing specialist services in construction and building services. Available at: www.bsria.co.uk [accessed 25 June 2021]

Building talk [online]. Available at: www.buildingtalk.com [accessed 25 May 2021] *Building Talk* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

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C

Campaign to Protect Rural England (CPRE) campaign for a beautiful and living countryside. They work to protect, promote, and enhance our towns and countryside to make them better places to live, work and enjoy, and to ensure the countryside is protected for now and future generations. CPRE [online]. Available at: www.cpre.org.uk [accessed 25 June 2021]

CBRE Research and Resources - CBRE sets the standard for global real estate research by providing clients with accurate and insightful market knowledge. CBRE [online]. Available at: www.cbre.com/research-and-reports [accessed 25 June 2021]

CPRE Resources provides the latest news articles, policy guidance notes, published reports and research surrounding the following - Countryside, Farming and food, Housing and planning, Energy and Waste, and Transport. CPRE Resources [online]. Available at: www.cpre.org.uk/resources [accessed 25 June 2021]

Centre for Architecture and Built Environment Research (CABER) seeks to develop innovative approaches, procedures, technologies, and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric, and the environments they create. Note: CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online] and available at: www1.uwe.ac.uk/et/research/caber.aspx [accessed 25 June 2021]

The Center for Construction Research and Training (CPWR) is dedicated to reducing occupational injuries, illnesses, and fatalities in the construction industry through research, training, and service programs. CPWR [online] and available at: www.cpwr.com [accessed 25 June 2021]

Centre for Digital Built Britain (CDBB) is a partnership between the Department of Business, Energy & Industrial Strategy, and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain and use our social and economic infrastructure. CDBB [online]. Available at: www.cdbb.cam.ac.uk/AboutDBB [accessed 25 June 2021]

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

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

Chartered Association of Building Engineers (CABE) is a member-focused non-profit organisation that brings like-minded professionals together. CABE shows knowledge, raises standards and developments professionals enabling a professional construction sector that works to create better, safer, and more sustainable buildings that enhance people's lives. CABE [online]. Available at: <https://cbuide.com/> [accessed 25 June 2021]

Chartered Institute of Building (CIOB) [online]. The Chartered Institute of Building is the international voice of the building professional, representing an unequalled body of knowledge concerning the management of the total building process. Available at: www.ciob.org [accessed 25 June 2021]

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

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

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

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

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

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

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 25 June 2021] is a collection of images of buildings and cities from around the world aimed at students, researchers, and educators.

C-Link is a procurement software company who also provide resources (incl. guides, eBooks, and other materials) created to help you make more money on your construction project. C-Link [online]. Available at: www.C-Link.com [accessed 25 June 2021]

College of Estate Management (CEM) – See University College of Estate Management (UCEM)

Commercial Real Estate Services (CBRE) is the world's largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally. CBRE [online]. Available at: www.cbre.co.uk [accessed 25 June 2021]

Community-Led Housing (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 25 June 2021]. This Toolkit provides a wealth of technical and non-technical information on a broad range of issues relevant to CLH. There are five Toolboxes, covering (i) Housing (ii) Communities (iii) Legal (iv) Planning and (v) Finance.

Confederation of British Industry (CBI) is the UK's premier business lobbying organisation, providing a voice for employers at a national and international level. CBI [online]. Available at: www.cbi.org.uk [accessed 25 June 2021]

Conference on Training in Architectural Conservation (COTAC) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including

craftsmen, professionals, and homeowners. COTAC [online]. Available at: <http://ihbconline.co.uk/cotac2> [accessed 25 June 2021]

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

Constructing Excellence (delivered with **bre**) is a platform for industry improvement to deliver excellence through clients, industry, and users through collaborative working. Resources include publications, tools, and newsletter. Constructing Excellence [online]. Available at: <http://constructingexcellence.org.uk/> [accessed 25 June 2021]

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

The **Construction Index** [online] provides a wide range of information services for the UK construction industry, that include a search engine of construction companies, daily construction news, market data, email newspaper letter, and Case Law analysis and legal commentary. Further information is available at: www.theconstructionindex.co.uk [accessed 25 June 2021].

Construction Industry Council (CIC) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry. CIC [online] and available at: <http://cic.org.uk> [accessed 25 June 2021]

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

Construction Industry Training Board (CITB) is the training board for the construction industry and partner in Construction Skills, the Sector Skills Council. CITB [online]. Available at: www.citb.co.uk [accessed 25 June 2021]

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

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

Construction Products Association (CPA) represents the UK's manufacturers and distributors of construction products and materials. Construction Products Association [online]. Further information is available at: www.constructionproducts.org.uk [accessed 25 June 2021]

Construction Project Information Committee (CPIC), responsible for providing best practice guidance on the content, form, and preparation of construction production information, and making sure this best practice is disseminated throughout the UK construction industry. CPIC [online]. Available at: www.cpic.org.uk [accessed 25 June 2021]

Construction and Property Research Centre (CPRC), University of the West of England (UWE) – the CPRC's research activity is focused around the three inter-related stages of the built environment lifecycle, namely design, construction, and maintenance. Note: The UWE **Centre for Architecture and Built Environment Research** (CABER) now incorporates the CPRC.

Contractors World magazines (incl. *Contractors World International* and *Contractors World UK & Ireland*) are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries. Contractors World [online]. Available at: <http://cwmags.com/> [accessed 25 June 2021].

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

Council for British Archaeology (CBA) is an independent charity bringing together members, supporters, and partners to give archaeology a voice and safeguard it for future generations. Archaeology for all [online]. Available at: <http://new.archaeologyuk.org> [accessed 25 June 2021]

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D

Delta T [online] is the Building Services Research and Information Association's quarterly journal.

Designing Buildings Wiki [online] and available at: www.designingbuildings.co.uk/wiki/Home [accessed 25 June 2021] is an industry-wide, cross-discipline forum for finding and sharing information.

Designing Buildings Wiki – Student resources [online] and available at: www.designingbuildings.co.uk/wiki/Student_resources [accessed 25 June 2021] has a wide range of resources aimed at students of the built environment, as shown here.

Designing Buildings Wiki – Construction industry acronyms [online] and available at: www.designingbuildings.co.uk/wiki/Construction_industry_acronyms [accessed 25 June 2021] providing a list of commonly used construction industry acronyms.

The **Design Council** [online] champions great design that improves lives and makes things better and available: www.designcouncil.org.uk [accessed 25 June 2021]. See also **Inclusive Design Hub for the Built Environment** (a project of The Design Council).

Directory of Open Access Books (DOAB) is a service which harvests details of academic and mainly peer-reviewed books published on open access. DOAB [online]. Available at: www.doabooks.org/doab [accessed 25 June 2021]

Directory of Open Access Journals (DOAJ) covers all open access scientific and scholarly journals, using a quality control system to guarantee the content. DOAJ [online]. Available at: <https://doaj.org> [accessed 25 June 2021]

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E

Education and Employers Research - Online research library marks its tenth anniversary. This online library provides a comprehensive repository of different and effective approaches to employer engagement and careers education. It brings together the latest thinking with selected research published over the past 40 years. Education and Employers [online]. Available at: www.educationandemployers.org/research-type/research-library [accessed 25 June 2021]

The Economics Network [online] provides publications, events, and other resources to support university teachers of economics throughout the UK and worldwide. Available at: www.economicsnetwork.ac.uk [accessed 25 June 2021]

EngineeringUK is a not-for-profit organisation, which works in partnership with the engineering community to inspire tomorrow's engineers and increase the number and diversity of young people choosing academic and vocational pathways into engineering. EngineeringUK [online]. Available at: www.engineeringuk.com [accessed 25 June 2021]

Engineering and Physical Sciences Research Council (EPSRC) is the main UK government agency for funding research and training in engineering and the physical sciences, investing more than £800 million a year in a broad range of subjects – from mathematics to materials science, and from information technology to structural engineering. EPSRC [online]. Available at: www.epsrc.ac.uk [accessed 25 June 2021]

English Heritage cares for over 400 historic buildings, monuments, and sites – from world-famous prehistoric sites to grand medieval castles, from Roman forts on the edges of the empire to a Cold War bunker. English Heritage [online]. Further information is available at: www.english-heritage.org.uk [accessed 25 June 2021]. Note: English Heritage has now separated into two organisations. If you are looking for information on listing, planning, grants or heritage research and advice, please visit **Historic England**.

Estates Gazette The UK's largest commercial property news team. *Estates Gazette Interactive* [online]. Available at: www.egi.co.uk [accessed 25 June 2021] incl. ***Estate Gazette, News from the nationals*** – Round-up of the top property stories with quick links.

European Real Estate Society (ERES) was established in 1994 to create an international real estate network between academics and professionals across Europe. ERES [online]. Further information is available at: www.eres.org [accessed 25 June 2021].

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

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G

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

Glenigan [online]. Available at: www.glenigan.com [accessed 25 June 2021] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

Global Research Gateway: CBRE's online resource for real estate research and reports. CBRE Global Research Gateway [online]. Available at: www.cbre.com/research-and-reports [accessed 25 June 2021]

Global Construction Review – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at www.globalconstructionreview.com [accessed 25 June 2021]

The Green Construction Board (GCB) is a consultative forum consisting of key members of UK construction and property industry. GCB [online]. Further information is available at: <https://cic.org.uk/projects/project.php?s=green-construction-board> [accessed 25 June 2021]

The Guardian, Housing network – providing insight, advice, and best practice from your community. The Guardian, Housing network [online]. Further information is available at: www.guardian.co.uk/housing-network [accessed 25 June 2021]

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

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H

Health and Safety Executive (HSE) is the national independent watchdog for work-related health, safety, and illness. HSE are an independent regulator and act in the public interest to reduce work-related death and serious injury across Great Britain's workplaces. HSE [online]. Available at: www.hse.gov.uk/index.htm [accessed 25 June 2021]

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

HSE Publications [online]. Available at: www.hse.gov.uk/pubns/index.htm [accessed 25 June 2021]

Heritage Alliance - The largest coalition of heritage interests in England, the Heritage Alliance is the umbrella body for national and major regional Heritage NGOs. Heritage Alliance [online]. Available at: www.theheritagealliance.org.uk [accessed 25 June 2021]

Heritage Update: the online edition of the fortnightly Heritage Alliance's *Heritage Update* e-bulletin [online] and available at: www.theheritagealliance.org.uk/update [accessed 25 June 2021]

Heritage Help - Created by the Joint Committee of the National Amenity Societies, Heritage Help offers information and advice on matters related to the management and protection of local historic environments. Heritage Help [online]. Available at: <http://heritagehelp.org.uk> [accessed 25 June 2021]

Higher Education Academy (HEA) – The Higher Education Academy champions excellent learning and teaching in higher education. The HEA are a national and independent organisation, funded by the four UK Higher Education funding bodies and by subscriptions and grants. Note: HEA is now **Advance HE**.

Higher Education Empirical Research (HEER) Database comprises summaries of the latest published research on a range of topics related to higher education. HEER [online]. Available at: www.srhe.ac.uk/links/higher_education_statistics_and_research.asp [accessed 25 June 2021]

Historic England is the public body that looks after England's historic environment. Historic England champion historic places, helping people understand, value and care for them. Further information is available at: www.historicengland.org.uk [accessed 25 June 2021]

Historic Environment Local Management (HELM) - provides accessible information, training, and guidance to decision makers in local authorities, regional agencies, and national organisations whose actions affect the historic environment. Note: All HELM web content on the Historic England website [online] and available at: <https://historicengland.org.uk/services-skills/training-skills/helmtraining> [accessed 25 June 2021].

Home Builders Federation (HBF) represents and serves its members in a range of ways including: Ensuring senior politicians and government officials are aware of housing issues and the challenges faced by our members; and working with Government officials to ensure housing policies are introduced that facilitate housing supply, in a way that is workable for the industry [online]. Available at: www.hbf.co.uk [accessed 25 June 2021]

House Building Careers (part of HBF). Here you will be able to learn about the home building industry and how it benefits you, your community, and the country as a whole [online]. Further information available at: <http://housebuildingcareers.org.uk> [accessed 25 June 2021]

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

INFABODE connects its community of users with industry information from the Real Estate sector on one customisable online platform. Infabode reduces the amount of time people spend trying to

access key information from the Real Estate industry. **INFABODE** [online]. Available at: www.infabode.com [accessed 25 June 2021]

Institution of Civil Engineers (ICE) is a registered charity that strives to promote and progress civil engineering. ICE [online]. Available at: www.ice.org.uk [accessed 25 June 2021]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 25 June 2021] is a free database that indexes all ICE journals.

International Council for Open and Distance Education (ICDE) is the leading global membership organisation for enhancing the quality of open, distance, flexible and online education, including e-Learning. ICDE [online]. Available at: www.icde.org [accessed 25 June 2021]

Institute of Historic Building Conservation (IHBC) is the principal professional body for building conservation practitioners and historic environment specialists working in England, Northern Ireland, Scotland, and Wales, with connections to the Republic of Ireland. IHBC [online]. Available at: www.ihbc.org.uk [accessed 25 May 2021]

Institute of Workplace and Facilities Management (IWFM) – Formerly the British Institute of Facilities Management, BIFM is now the IWFM. The workplace has been incorporated into their new brand so that the status of the professional can help take careers further, regardless of specialism. IWFM [online]. Further information is available at: www.iwfm.org.uk [accessed 25 June 2021]

IWFM Insight – discover leading research and resources for the workplace and facilities management profession. IWFM Insight [online]. Available at: www.iwfm.org.uk/insight [accessed 25 June 2021]

IWFM News – discover the latest news affecting the profession and gain expert insight and advice. IWFM News [online] Available at: www.iwfm.org.uk/news [accessed 25 June 2021]

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

ITcon – The **Journal of Information Technology in Construction** is a peer-reviewed scholarly journal on the use of IT in architecture, civil engineering, and facility management. *ITcon* [online]. Available at: www.itcon.org [accessed 25 June 2021]

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J

JISC Library Hub Discover – Library Hub Discover replaces COPAC* and SUNCAT, offering increased coverage of university libraries along with new facilities and improved response times. Library Hub Discover currently contains 42,397,777 records created from 106,833,532 records contributed by 144 institutions. Jisc Library Hub Discover [online]. Available at: <https://discover.libraryhub.jisc.ac.uk> [accessed 25 June 2021].

JORUM Archive – After 13 years delivering and sharing content across the higher education, further education and skills sectors the Jorum service and website was retired on 30 September 2016. However, many of the open education resources (OER) that were available in Jorum, access to their Jorum Archive can be accessed via the JISC website [online]. Available at: www.jisc.ac.uk/website/legacy/jorum [accessed 25 June 2021] where you can also gain access to JISC's full digital resources offer.

Journal of Online Learning and Teaching (JOLT) - The [MERLOT Journal of Online Learning and Teaching](#) is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education.

JournalTOCs is the largest, free collection of scholarly Journal Title of Contents (TOCs) [online]. Available at: www.journaltoCs.ac.uk/index.php [accessed 25 June 2021]

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L

[Leeds Beckett University's – School of the Built Environment, Engineering and Computing](#)

[online]. Further information that includes Subject Area Research – 1) Civil Engineering and Building Services Engineering, 2) Planning, Housing and Human Geography, and 3) Surveying, Construction and Project Management is available at: www.leedsbeckett.ac.uk/school-of-built-environment-engineering-and-computing/research [accessed 25 June 2021]

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

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[LGA Knowledge Hub](#) - Knowledge Hub is the public sector's professional social network which helps people in local government connect and share online in a secure environment [online]. Available at: <https://khub.net> [accessed 25 June 2021]

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M

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Organisation for Economic Cooperation and Development (OECD) iLibrary is the online library of the OECD, featuring its books, papers and statistics and is the gateway to OECD's analysis and data. Note: It replaced SourceOECD. OECD iLibrary [online]. Available at: www.oecd-ilibrary.org [accessed 25 June 2021]

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Residential Landlord – an online resource providing Landlord Resources, a Document Download Centre (containing templates and free tenancy agreements to amend and use as required), news and views, advice, and guidance [online]. Further information is available at: residentiallandlord.com [accessed 25 June 2021]

Revo – Retail. Property. Community (formerly BCSC (British Council of Shopping Centres) is the professional body and authoritative voice for retail property and placemaking-led regeneration and for the management of and investment in shopping places [online]. Further information is available at: www.revocommunity.org [accessed 25 June 2021]

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

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S

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Shoosmiths Insights & articles – Shoosmiths is a major UK law firm with a network of offices working together as one team. Read the latest insights, articles, and commentary from Shoosmiths or explore their content library that include – Placemaking; Real estate; Diversity & Inclusion; Litigation & disputes; Governance; Employment, and more. Shoosmiths [online]. Available at: www.shoosmiths.co.uk/insights [accessed 25 June 2021]

Specification Online – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at: <http://specificationonline.co.uk> [accessed 25 June 2021]

Supply Chain Sustainability School represents a common approach to developing sustainability competence in the supply chain. It is a free resource available to any supplier and is part of their

continued commitment to lead the industry into a brighter, more sustainable future. Supply Chain Sustainability School [online]. Further information is available at: www.supplychainschool.co.uk/uk/default-home-main.aspx [accessed 25 June 2021]

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Tomorrow's Engineers brings together resources and evidence to support the engineering community in getting the most out of their engagement activity. Tomorrow's Engineer [online]. Available at: www.tomorrowsengineers.org.uk [accessed 25 June 2021]

Trust in Digital Repositories (TrustDR) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit. TrustDR [online]. Available at: <https://trustdr.digitalinsite.co.uk> [accessed 25 June 2021]

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U

UK BIM Framework – The overarching approach to implementing BIM in the UK. Further information on BIM Standards, Guides and Resources. UK BIM Framework [online]. Available at: www.ukbimframework.org [accessed 25 June 2021]

University College of Estate Management (UCEM) is the leading provider of supported distance learning for real estate and construction professionals. UCEM [online]. Available at: www.ucem.ac.uk [accessed 25 June 2021]

UCEM e-Library is a comprehensive and valuable online resource, supplementing teaching and learning materials and enabling students to access a wealth of subject-specific and credible information to support them throughout their studies. UCEM e-Library [online]. Available at: www.ucem.ac.uk/e-library [accessed 25 June 2021]

University of the West of England (UWE), Centre for Architecture and Built Environment Research (CABER) seeks to develop innovative approaches, procedures, technologies, and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric, and the environments they create. Note: CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online]. Available at: www1.uwe.ac.uk/et/research/caber.aspx [accessed 25 June 2021]

UWE Educational Resources for the Built Environment (ERBE) produces unique and highly respected educational resources for academic and professional use and incorporates the **Video Project** and the **Construction Website**. Further information can be found on the ERBE website [online] and available at: www1.uwe.ac.uk/et/cp/erbe.aspx [accessed 25 June 2021]

UWE, ERBE, Construction Films concentrate on domestic building construction. The films explain the principles of modern construction and, where appropriate, trace its evolution over the last 100 years. ERBE Construction Films [online]. Further information is available at: www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx [accessed 25 June 2021]

UWE, ERBE, The Construction Website is an interactive encyclopaedia covering construction, conservation and building history. It is expanded and revised on an annual basis [online]. Further information is available at: www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx [accessed 25 June 2021]

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

UWE, Research publications and reports – Providing immediate world-wide open access to all UWE's research output. Research at UWE Bristol [online]. Available at: www1.uwe.ac.uk/research.aspx [accessed 25 June 2021]

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V

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

Y

Yale Environment 360 - an online magazine offering opinion, analysis, reporting, and debate on global environmental issues. We feature original articles by scientists, journalists, environmentalists, academics, policy makers, and business people, as well as multimedia content and a daily digest of major environmental news. *Yale Environment 360* [online]. Available at: <https://e360.yale.edu/> [accessed 25 June 2021]

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Z

Zetoc: Informing Research - The monitoring and search service for global research publications, providing access to over 36,000 journals and more than 59 million article citations and conference papers through the British Library's electronic table of contents and over 875,000 Open Access (OA) article citations and conference papers from PubMed. Zetoc [online]. Available at: <http://zetoc.jisc.ac.uk/> [accessed 25 June 2021]

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

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

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