

Modernise or Die: The Clock's Ticking...



Mark Farmer

TRA Members Meeting
7th April 2022

Cast 

SYMPTOMS OF FAILURE



Events Of The Last Few Years Have Now Been Conflated Into An Unprecedented Cocktail – What is Short Term Impact & What Is Structural Change?



Declining Global Supply Chain Resiliency, Finite Resources & Climate Change Have Only Recently Become Headline News In Wider Society But All Have Disproportionate Impact on Construction's Fragile State

Ukraine: conflict could halt UK projects due to supply chain disruption

Working at height: how material costs and labour shortages hit access firms

Europe faces building material shortages as energy prices soar

Suppliers holding materials price quotes for just 24 hours



Brexit, Covid & Ukraine Have Exposed & Amplified UK Supply Chain Weaknesses But The Underlying Problem Has Been There For Years

Builders 'on the brink' after supply crunch shakes their foundations

A dearth of labour and materials risks bringing ministers' infrastructure and housing pledges tumbling down, writes Russell Lynch

Prime Minister Johnson has big plans for Britain's construction industry. The Prime Minister - never one to be shy of a bold but phony opportunity - has pledged that the nation would "build, build, build" its way out of the Covid crisis.

Only this week his Chancellor, Rishi Sunak, pledged a "step change" in capital investment with a £100bn pledge over five years he formally launched next month's spending review.

Ministers are brimming with pledges for builders to deliver on - from 300,000 new homes a year to greening the economy and an "infrastructure revolution". But the soaring rhetoric is coming up against the reality of a sector which has left the sector shuddering this week.

Builders' Federation (HBF) president, says data from HBF Market Intelligence shows that in the first three months of the year, the industry has seen a 10% drop in new orders, a 15% drop in new contracts, and a 20% drop in new orders.

The gap between rhetoric and the reality on the ground has never been wider, according to industry experts, as the scramble for staff, materials and equipment continues as a sector employing three million staff and accounting for 10% of the economy.

According to the industry's leading trade body, the Construction Products Association, expects 500,000 UK-born workers to leave the industry in the next 10 years as a demographic "bulge" of 50 to 60-year-olds retires.

Brexit has added to the difficulties, particularly in London. HBF workers increased for four in five of the country's building workforce in 2019, but have dropped by three in London and five across the country. Heavy work immigration system has also made life harder to tempt back those who left during the pandemic.

The small building and specialist construction are likely to be the most affected by this as they are the least likely to have the resources to recruit.

Attempting to replenish the supply of "new year men" workers is tough, however. To take building rates from current 240,000 a year to 300,000, the HBF estimates the nation needs an extra 20,000 workers. But as of the end of August, just 1,070 young people of the 25,000 starting a placement under the Government's post-Covid Restart scheme had gone into construction-related placements.

This structural issue is likely to linger longer than the shorter-term problems of shortages of materials and labour, and the cost of equipment that has been driven up by the year-long global supply chain crisis.

But it comes with the Government's building strategy, expected to set out plans for the long-term future of the industry, and the need to get the industry to deliver on its promises.

One senior building industry source said: "Even before you get to retrofitting 27m homes, just take the new build side of things. You've got 200,000 plus homes a year, which you need to suddenly put into place in a very short period of time. We can't make that many yet - a supply chain is not in place. So you have to import them. Who is going to service them?"

Industry members are also still reeling from the scrapping of the Government's Green Deal in 2015, which was the most ambitious home improvement programme since the Second World War when launched. Just 16,000 homeowners took out loans to fund energy efficiency improvements before it was scrapped. The failure scuttled firms that invested in capacity, including Carlisle on its way to bankruptcy. The National Audit Office, meanwhile, last week labelled another new scheme - the Energy Efficiency Grant - launched last year but ditched in March - as "rubbish".

Other headaches in the pipeline include delays to the new UKCA mark, introduced last April. A red wax seal on the industry's new UKCA mark, justified on environmental grounds, has been left in the ground for months. The industry's new UKCA mark, justified on environmental grounds, has been left in the ground for months. The industry's new UKCA mark, justified on environmental grounds, has been left in the ground for months.

Other headaches in the pipeline include delays to the new UKCA mark, introduced last April. A red wax seal on the industry's new UKCA mark, justified on environmental grounds, has been left in the ground for months. The industry's new UKCA mark, justified on environmental grounds, has been left in the ground for months.

Other headaches in the pipeline include delays to the new UKCA mark, introduced last April. A red wax seal on the industry's new UKCA mark, justified on environmental grounds, has been left in the ground for months. The industry's new UKCA mark, justified on environmental grounds, has been left in the ground for months.

Structural issues Shortage of staff and rising costs hit construction sector

Construction is spending more on materials and labour, but the industry is struggling to find enough workers to build the new homes and infrastructure that the government wants to build.

The industry is also facing a shortage of materials, with prices for steel, cement and other key materials rising sharply. This is due to a combination of factors, including the impact of the pandemic on global supply chains and the impact of Brexit on the availability of materials from the EU.

The industry is also facing a shortage of workers, with many people leaving the industry to work in other sectors. This is due to a combination of factors, including the impact of the pandemic on the industry and the impact of Brexit on the availability of workers from the EU.

The industry is also facing a shortage of equipment, with prices for cranes, excavators and other key pieces of equipment rising sharply. This is due to a combination of factors, including the impact of the pandemic on global supply chains and the impact of Brexit on the availability of equipment from the EU.

They are talking about heat pumps here, 300,000 homes there. Who's going to be doing the building back better?

As its Tube stations open, concerns are mounting over project, says Ben Garratt

Using the Thames south bank is what some have promised as the capital's most promising real estate development in recent years, and central London's largest regeneration project.

But as its Tube stations open, concerns are mounting over project, says Ben Garratt

Using the Thames south bank is what some have promised as the capital's most promising real estate development in recent years, and central London's largest regeneration project.

But as its Tube stations open, concerns are mounting over project, says Ben Garratt

Using the Thames south bank is what some have promised as the capital's most promising real estate development in recent years, and central London's largest regeneration project.

Pay rises are building amid lack of workers

Gurpreet Narwan, Economics Correspondent

Thursday August 26 2021, 12.01am, The Times



Construction workers are in high demand across Britain
ALAMY

Construction companies are increasing their wages eight times faster than other sectors in the economy, according to a report.



The Big Picture Drivers That Are Now Exposing The Resiliency Decline in UK Construction Sector

Decarbonisation

**Workforce
Attrition**

Technology
Advancements

Building Safety

**Geopolitical
Events – Trade &
Energy Security**

Disintermediation
Threats

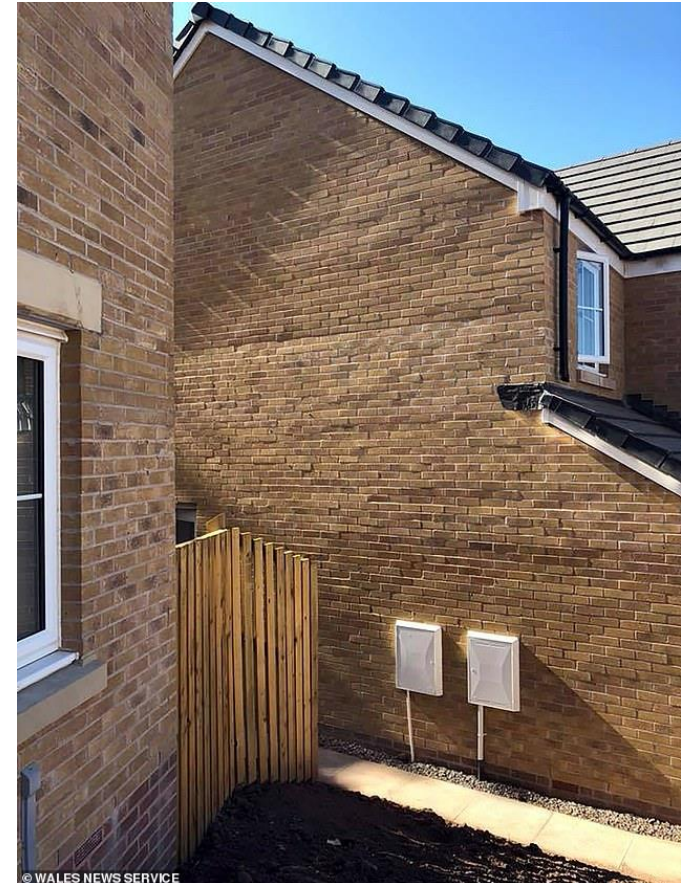
Pandemic

**ESG Driven
Investment &
Lending**

Quality &
Consumerism



Quality Failure & Brand Risk Is Still Engulfing The Industry



Some May Say Things Have Even Got Worse!



Developer told to turn homes around after building them the wrong way

Comment



Sam Courtney-Guy

Thursday 14 Oct 2021 11:44 am



3.2k
SHARES



The development could have illegally breached planning permission (Picture: SWNS)

A major housing developer is having to reverse an entire block of flats after building it backwards.



Major Infrastructure Remains Seen An Unpredictable Risk Laden Endeavour Just As We Look To Embark On A New National Energy Strategy

MPs warn Crossrail schedule and costs 'lack certainty'

October 29, 2021



Crossrail remains unable to deliver a timeline of completion for the Elizabeth line, as public account committee MPs warn there is still no certainty to its cost and opening schedule

LATEST

HS2 | Phase One cost pressures and risk of construction delays revealed

21 OCT, 2021 | BY ROB HORGAN



THE CHARTERED BODY FOR THE PROJECT PROFESSION

RESOURCES

MEMBERSHIP

CHARTERED
STANDARD

QUALIFICATIONS AND
TRAINING

JOBS AND
CAREERS

[Home](#) > [News](#) > Harvard Business Review: New feature makes the case for speed and modularity in projects

Harvard Business Review: New feature makes the case for speed and modularity in projects

20 Oct 2021

0 comments

[Login to add to CPD log](#) [Login to bookmark this](#)

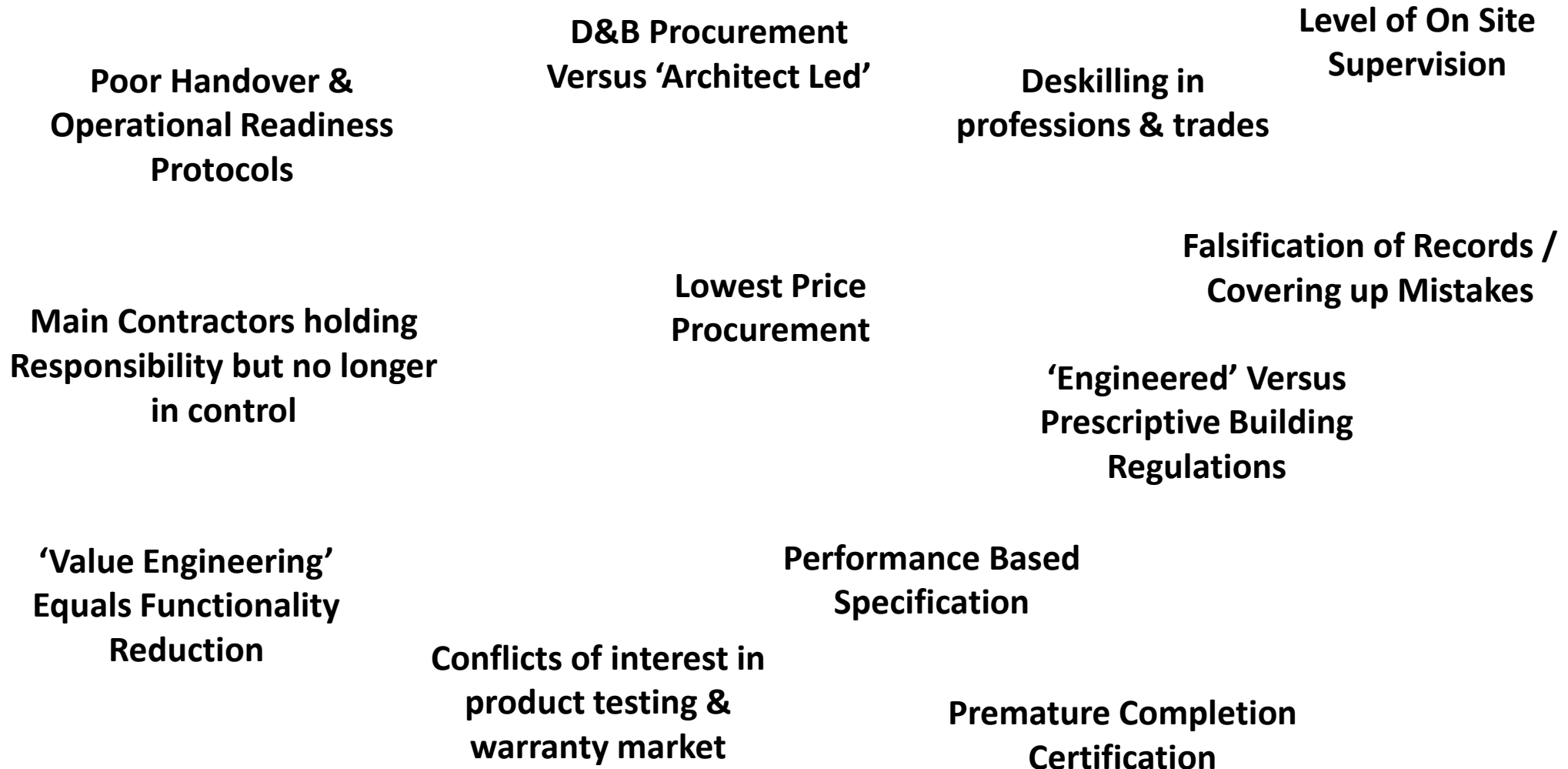
A new article by APM Fellow Bent Flyvbjerg is raising awareness of what good project management is among business leaders, following its publication in the *Harvard Business Review* (HBR).



Over 4 Years Into The Grenfell Inquiry The Facts Speak For Themselves



However Uncomfortable It Is To Play Back – ‘Poor Culture’ Is Inextricably Linked To Poor Skills & Competence – They Amplify Each Other’s Impacts



Symptoms Still Showing Themselves – Accelerating Post Covid & Ukraine Crisis Induced Construction Sector Financial Failure – Inability To Hold Risk & Manage Volatility

Huge scale of Midas debts revealed following construction firm's collapse

Balfour CEO warns of the impact of 'hyperinflation'



Cleveland Bridge to shut after failing to secure buyer

10 SEP 2021 | BY TIYA THOMAS-ALEXANDER



DIAGNOSIS & PROGNOSIS



A Reminder of What I Said To UK Government in 2016....We Should Prepare For Less Dependence On Labour Intensity



SYMPTOMS

The critical symptoms of failure and poor performance have been identified in this review as:



Why Resiliency Matters In Construction



resilience

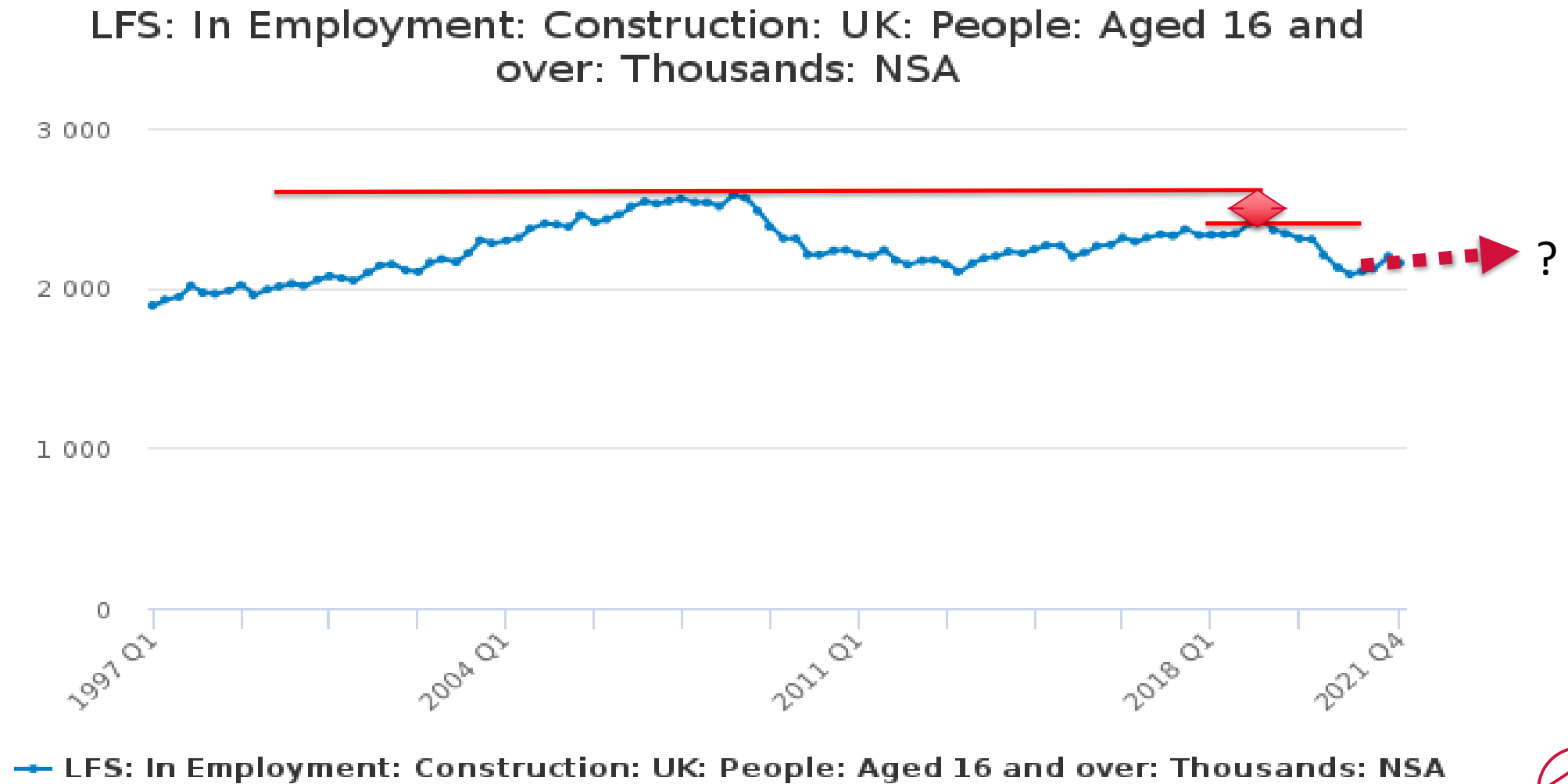
/rɪˈzɪliəns/

noun

1. the capacity to recover quickly from difficulties; toughness.
"the often remarkable resilience of so many British institutions"
2. the ability of a substance or object to spring back into shape; elasticity.
"nylon is excellent in wearability, abrasion resistance and resilience"



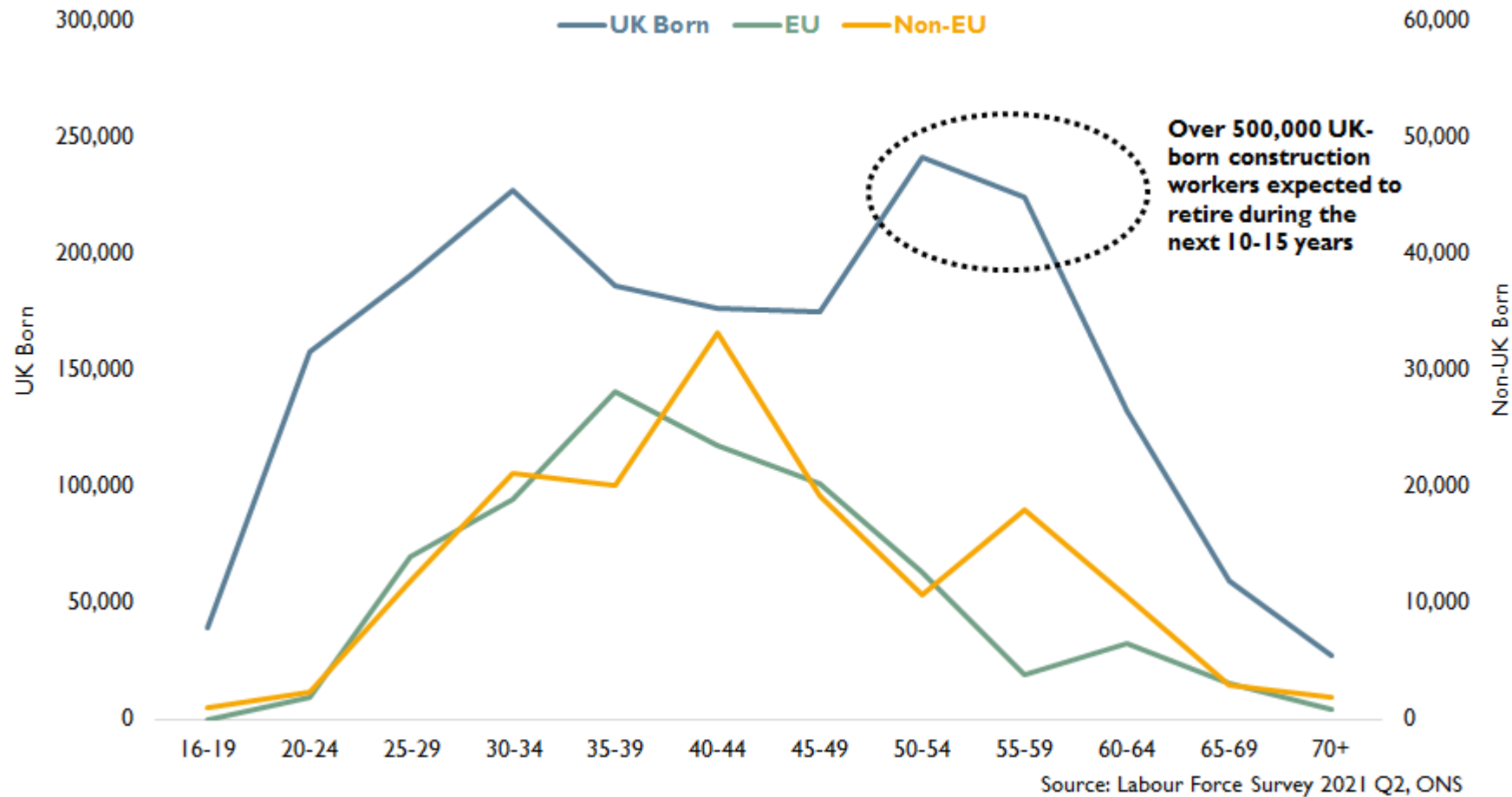
Industry Labour Resiliency Has Been In Structural Decline in UK For 40 Years – But There Is Now A Visible Tipping Point



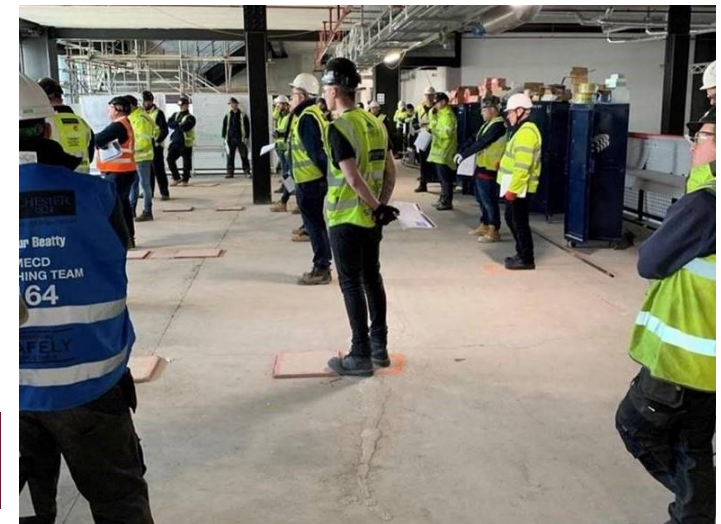
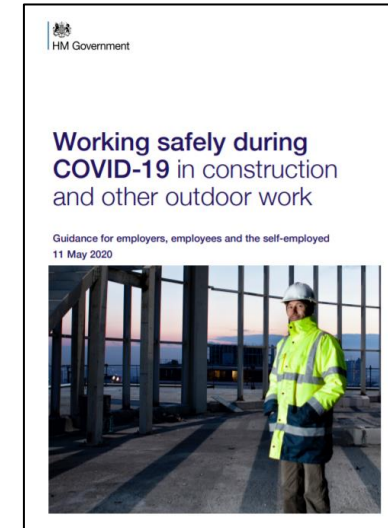
Source: ONS



Demographics & Geopolitics Conspiring For A Perfect Storm In UK



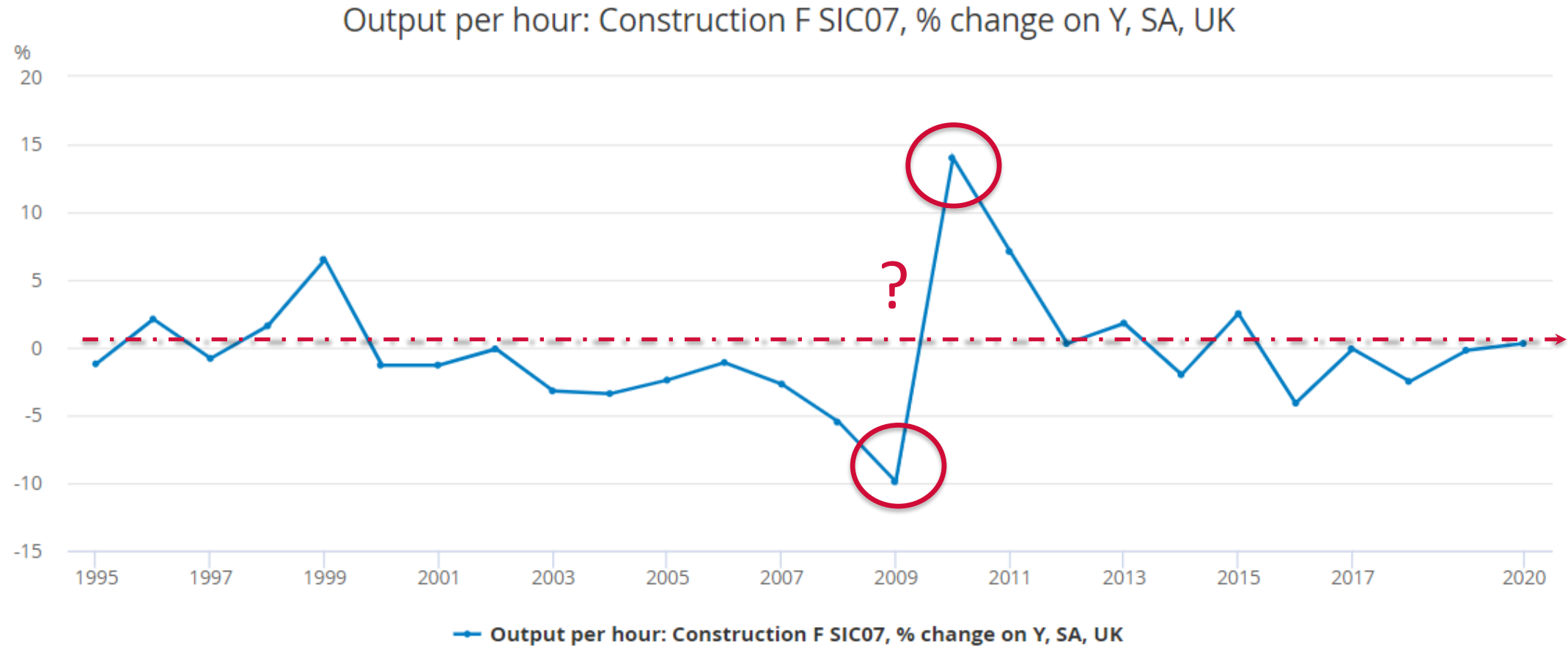
Covid Has Just Told Us What We Already Knew About Our Labour Model



Total Site Output: ↓; Individual / Team Productivity: →↑



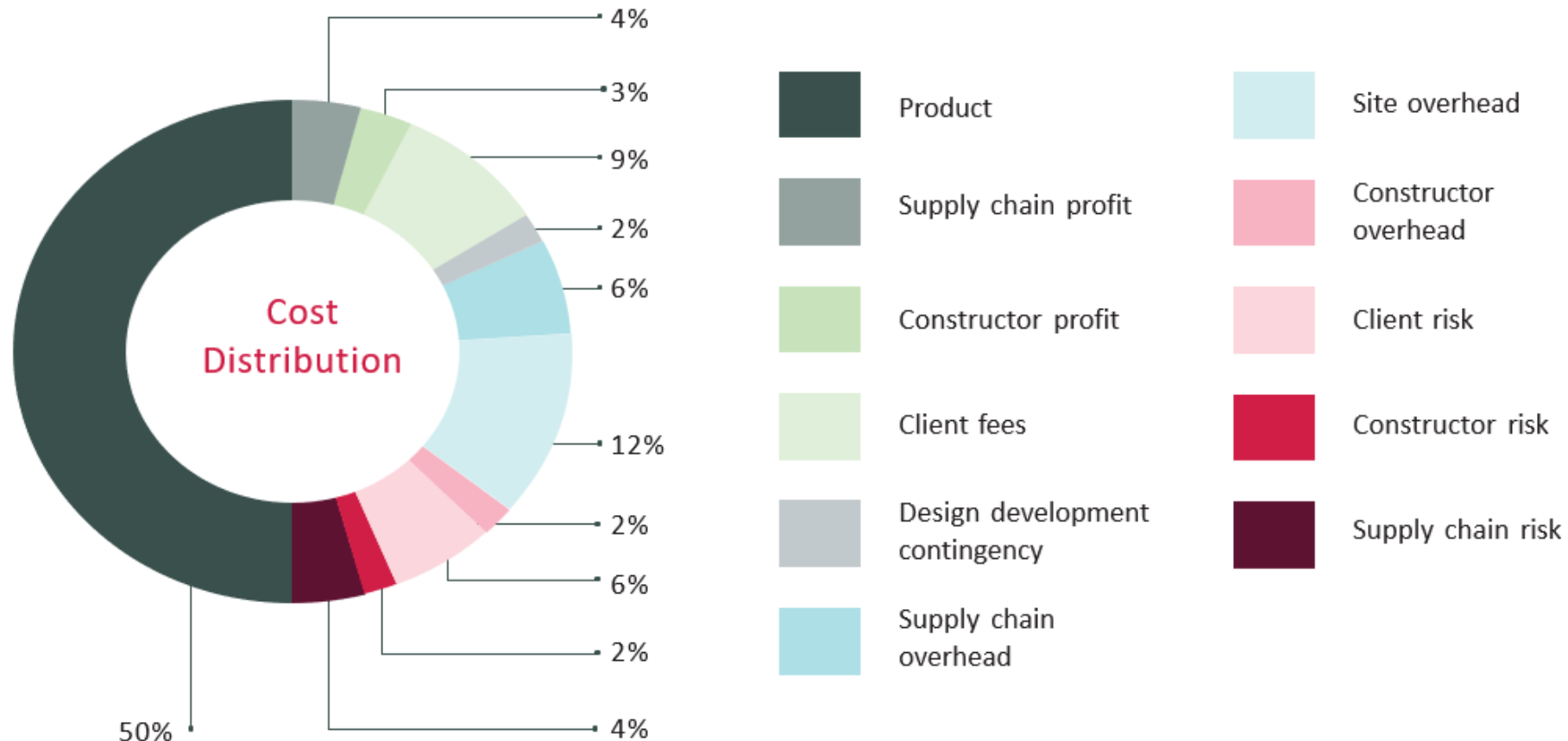
Labour Intensity & Labour Skills Scarcity Do Not Sit Happily Together – We Have An Even More Urgent Production Model Problem In The Current World



Source:



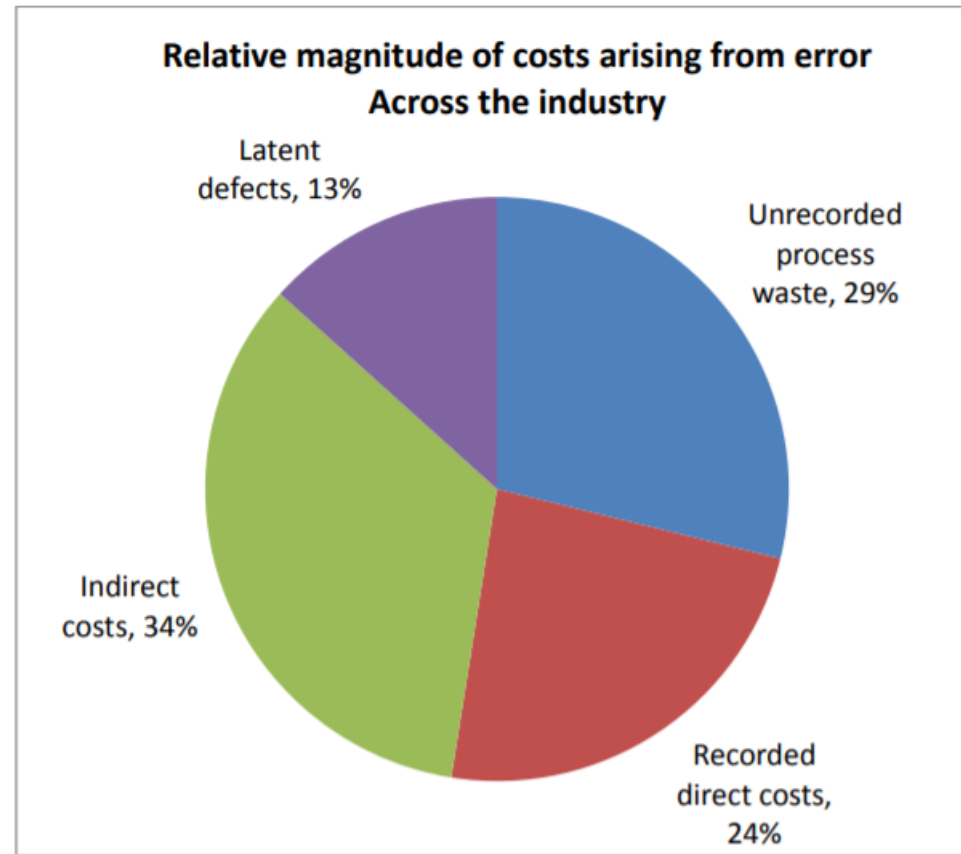
We Still Need To Attack The Industry's Waste To Reduce Resource Consumption & Fund Better Returns Without Increasing End Cost To Consumer



Source: Cast Consultancy



And Waste Is Directly Linked to Competence & Skills Not Just Transactions



Source: Get It Right Initiative



Poor Procurement Behaviour & Skills Continues To Perpetuate A Broken Model



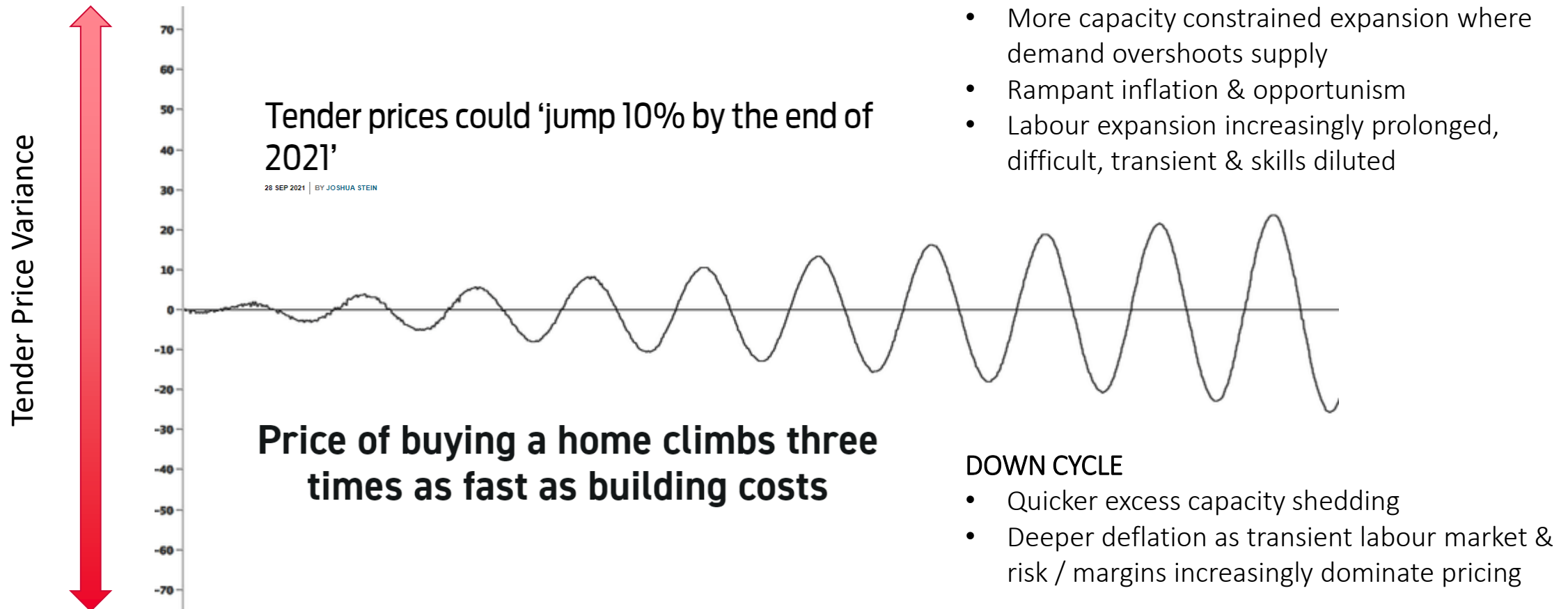
CONSTRUCTION AFTER GRENFELL

Toxic and dysfunctional industry in race to the bottom

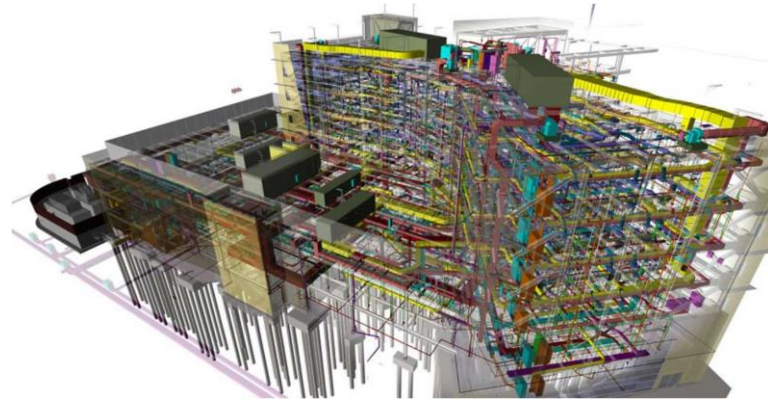
In the first of a three-part series, The Times highlights the serious challenges facing the construction sector



Economic Cycles Are Now Being Accompanied By Amplified Pricing Volatility

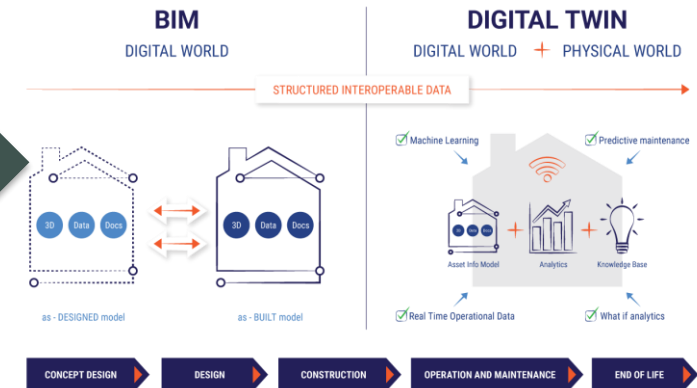


BIM / Digital Design & Even Good Procurement In Isolation Is Not Enough Either – Analogue Site Process Is Still The Weakest Link



+

**DIGITALLY ASSURED THREAD
DIMINISHES**



Technical Standards Outlook Is Increasingly Challenging From A Consumer & Investor Led Perspective

BREEAM®



The UK Passive House Organisation




WiredScore



Emerging Safety Legislation Will Act As A Further Filter On The Available Workforce For Certain Activities – From Design, Checking, Works Execution & Inspection. ‘Competence’ is Hard Earned!



Nearly 40% of all Global Emissions Are Related To Built Environment – Climate Change Is Likely To Become The Biggest Single Indirect Driver Of Construction Modernisation – Through Regulatory & Investor Reform



Ministry of Housing,
Communities &
Local Government

The Future Homes Standard: 2019
Consultation on changes to Part L
(conservation of fuel and power) and Part F
(ventilation) of the Building Regulations for
new dwellings

Summary of responses received and Government response

January 2021
Ministry of Housing, Communities and Local Government

Buyers of brand-new homes face £20,000 bill to make them greener

Critics say the costs could have been avoided if ministers had agreed to bring in low-carbon standards sooner



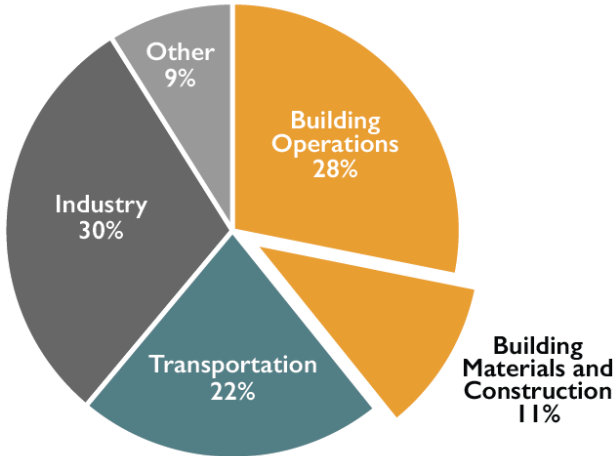
▲ All UK homes will need to be brought up to high standards of efficiency and equipped with low-carbon heating in place of gas boilers if the government is to meet its target of net zero greenhouse gas emissions by 2050.
Photograph: Mundo MacLeod/The Guardian

Government should consider homebuyer grants for zero carbon homes, say sector giants



TopHat and L&G have said the government should consider offering housebuyers a grant to encourage them to buy zero carbon homes.

Global CO₂ Emissions by Sector



Source: © 2018 2030, Inc. / Architecture 2030. All Rights Reserved. Data Sources: UN Environment Global Status Report 2017; EIA International Energy Outlook 2017

?

A proposed amendment to
The Building Regulations 2010

Whole life carbon

APPROVED DOCUMENT

Z

Z1 Carbon assessments
Z2 Carbon intensity

Disclaimer: This document is not yet part of the Building Regulations. It has been produced by and in conjunction with the construction industry as a proof of concept in order to demonstrate one way in which embodied carbon could be introduced into UK regulation. For accompanying commentary on this document, visit www.part-z.uk, or contact hello@part-z.uk.

Proposal revision 0
20 July 2021

A proposal from the construction industry



But We Do Need To Rationally Reconcile Decarbonisation With Building Safety Regulatory Reform

How is the CLT industry responding to the combustibles ban?

By Joey Gardiner | 31 January 2019



Proponents of cross-laminated timber were up in arms when the government announced its plans to ban combustible materials from the external walls of high-rise buildings. But now the nascent industry is fighting back, reports Joey Gardiner

New York City Council Approves Use of Cross-Laminated Timber

October 8, 2021, 9:13 AM by 6Park NewsDesk



Odile Guzy Architectes' social housing scheme in Chalon-sur-Saône, France

French public buildings to be built with 50 per cent wood

11 April 2022

NEWSLETTERS

Sign up to read our regular email newsletters

NewScientist

News Podcasts Video Technology Space Physics Health More ▾ Shop Tours Events

Steel and concrete are climate change's hard problem. Can we solve it?

Heavy industry produces more carbon dioxide than the entire US. Perfect the new technologies that could clean it up and we can score a crucial climate victory

A new report predicts significant demand growth for mass timber components

There should be plenty of wood, but production capacity needs to catch up.

BUILDING MATERIALS | JULY 05, 2020 | JOHN CAULFIELD, SENIOR EDITOR



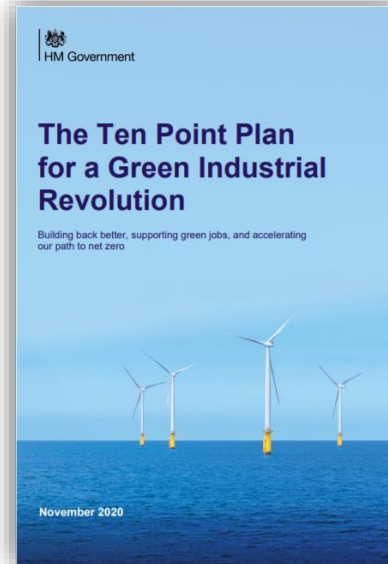
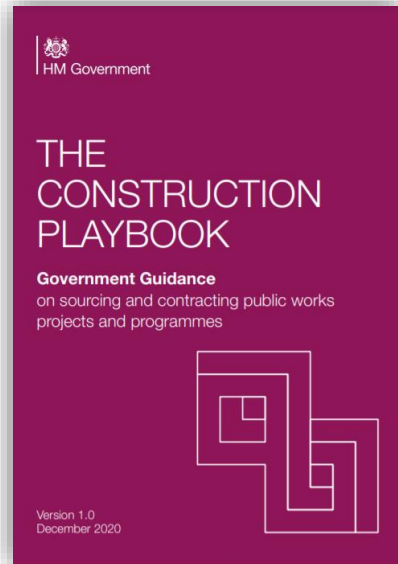
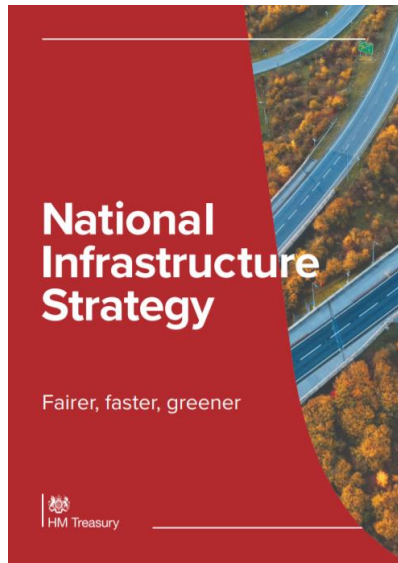
50. Government aims to support action in the construction sector by improving reporting on embodied carbon in buildings and infrastructure with a view to exploring a maximum level for new builds in the future. We recognise there is potential to reduce embodied carbon by way of material substitution where appropriate, such as in timber usage (see *Natural Resources, Waste and F-gases* chapter) and resource efficiency approaches, amongst others. We have also supported the Green Construction Board to produce a *Routemap to Zero Avoidable Waste*, published in July 2021.



TREATMENT PLAN



Government Has Signalled Over Last Few Years That It Sees A Move Towards Procurement Reform, Technology & MMC As A Centre Piece of Policy & Public Client Led Reform



Government Has Accelerated The Move To Residential MMC Post Covid-19



Search our site

Home

NEWS

COMMENT

IN FOCUS

HOUSING DELIVERY

CPD

EVENTS



PRODUCT SEARCH

JOBS

NEWS

A quarter of affordable homes must be MMC

By Joey Gardiner | 11 September 2020





Homes England to use deals signed under new £11.5bn Affordable Housing Programme



Search our site

Home

NEWS

COMMENT

IN FOCUS

HOUSING DELIVERY

CPD

EVENTS


PRODUCT SEARCH

JOBS

NEWS

A fifth of all new affordable homes must be MMC, says Jenrick


By Tom Lowe | 7 October 2020





Housing secretary makes pledge and tells Tory conference any further cash in the spending review will be focused on MMC

11 April 2022



Nominated for PPA Brand of the Year

Search our site

Home

NEWS

COMMENT

IN FOCUS

PROGRAMMES

HOUSING DELIVERY

CPD






EVENTS



PRODUCT SEARCH

NEWS


Homes England boss says industry “getting away” with low MMC uptake for too long

By Joey Gardiner | 24 November 2020





Nick Walkley says quango will 'ratchet up' offsite requirements and expand strategic partnership programme




Modular Monitor

Subscribe

Revealed: Ministers ramp up MMC target to 40% on affordable homes

News, views and more from the MMC sector

Sep 9





Extensive R&D Has Also Helped Some To De-Risk Innovation in Homebuilding

AIMCH Project

We are the lead partner on the three-year Advanced Industrialised Methods for the Construction of Homes (AIMCH) project, working with partners such as Barratt Developments PLC and L&Q on innovative ways in which to tackle all the challenges the housing sector currently faces. AIMCH are working towards identifying and developing industrialised offsite solutions needed to meet current and future house building demands. Mark Farmer, MMC expert and new AIMCH Chair, comments: “Mainstreaming all categories of MMC is more important than ever. In a post-Covid world the sector needs to transform productivity, improve quality as well as improving the welfare of its workforce. We also need to find more sustainable ways of building in order to achieve a net zero-carbon built environment.” Full details are at www.aimch.co.uk

[Read about AIMCH progress](#) ➤



Measuring Progress & Outcomes Requires Further Metrics Alongside Defining MMC - 'Traditional Versus MMC' Is Not A Binary Decision

For more information see link below:

<https://www.cast-consultancy.com/knowledgehub/toolkit/pre-manufactured-value-pmv-estimator/>



Pre-Manufacturing:

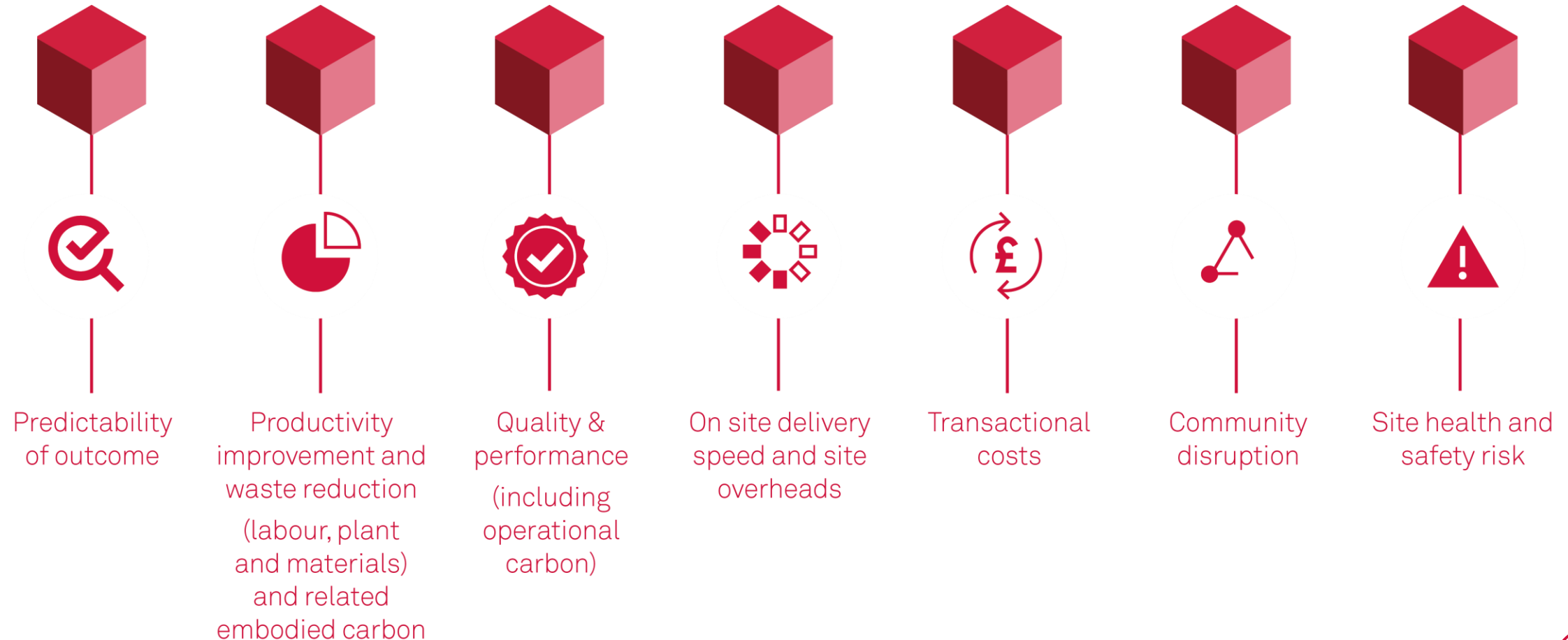
The inclusive term for all processes encompassed by construction materials, component, sub-assembly manufacture, consolidation and pre-assembly prior to final movement and installation at the construction workface. This, for the avoidance of doubt, can include offsite, near site and on-site temporary factory led processes.

THE PMV FORMULA IS
A SIMPLE EQUATION

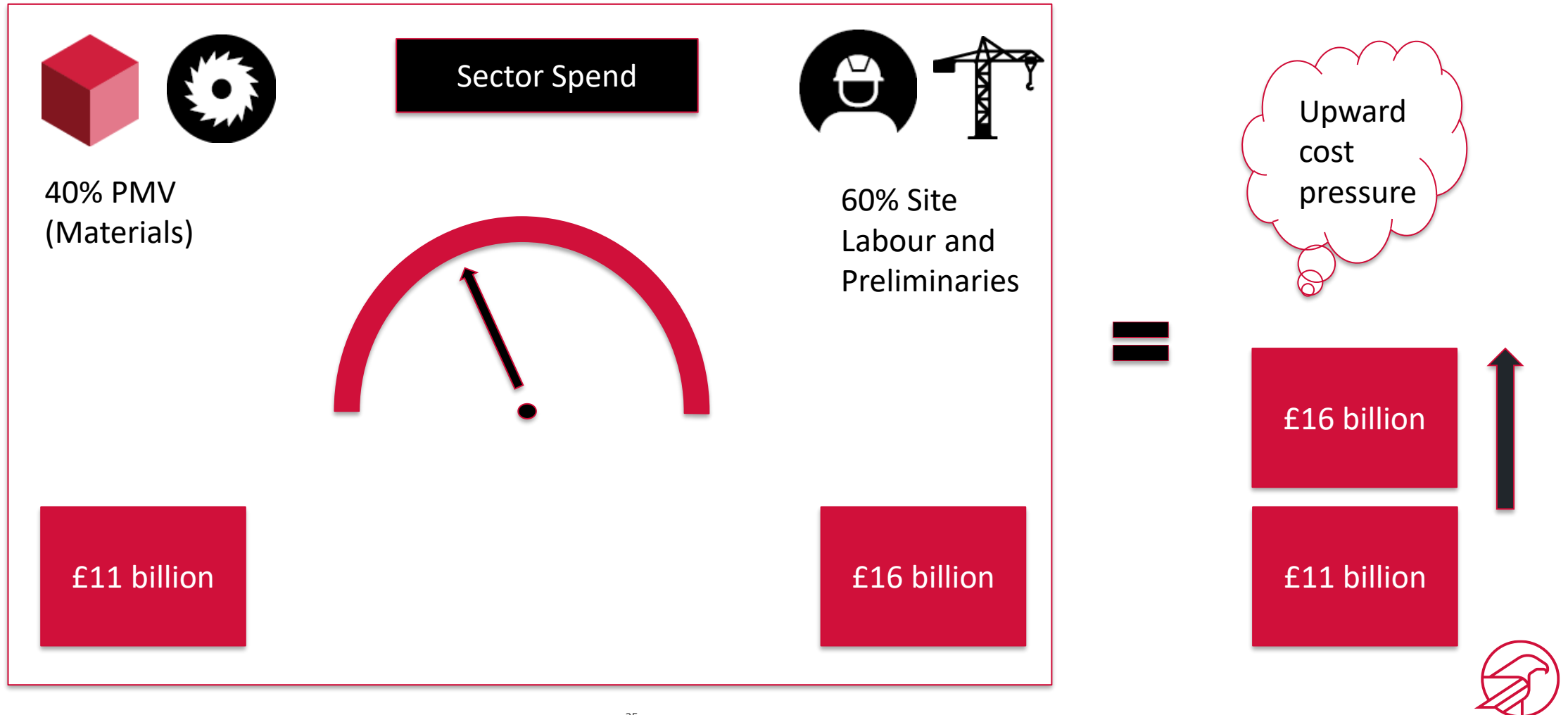
$$\text{PMV \%} = \frac{\text{Pre-manufactured value (£)}}{\text{Gross Construction Cost (£)}} \times 100$$
A red 3D cube icon representing the numerator of the PMV formula.A black circle containing a white Venn diagram with three overlapping circles, representing the denominator of the PMV formula.



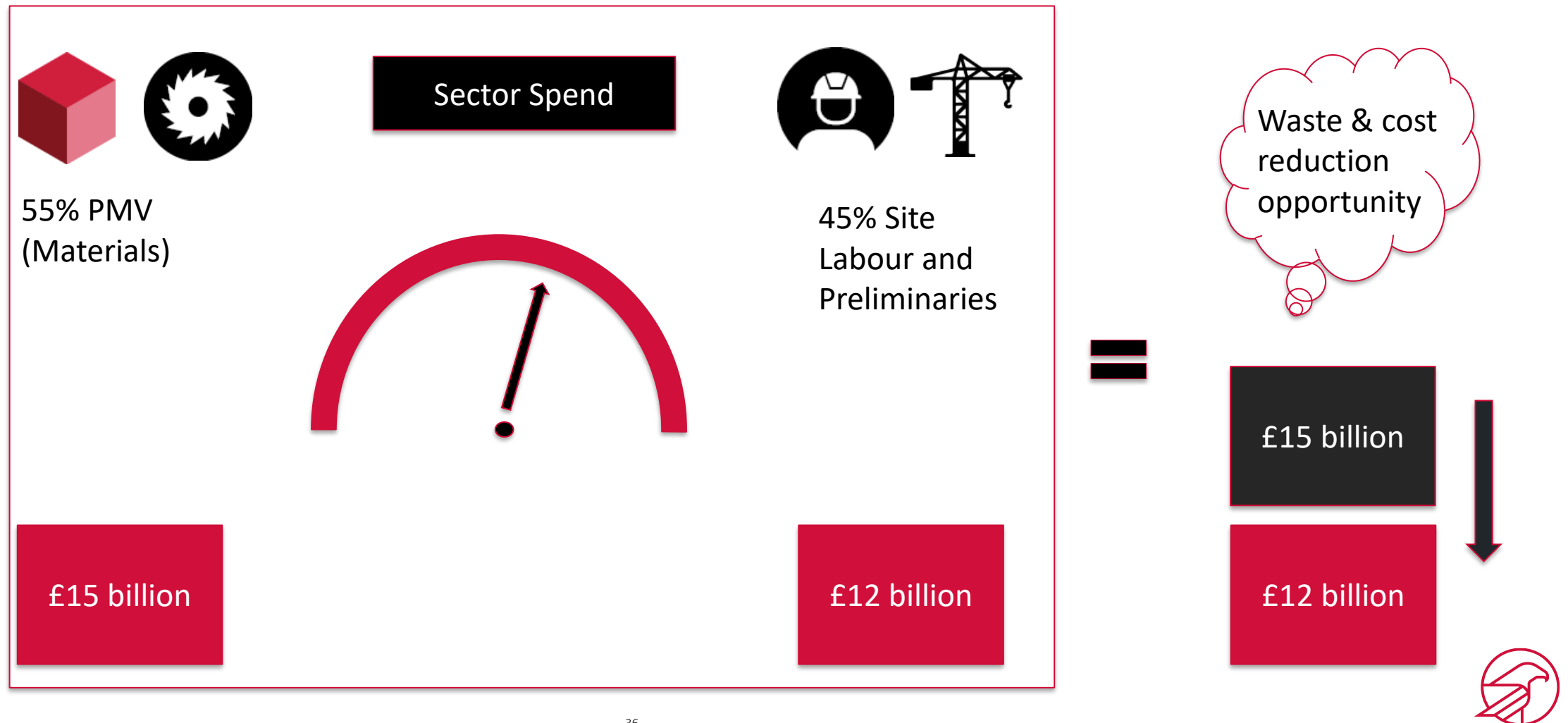
Why Measure PMV – Driving A Key Client Brief Input As A Simple Proxy For Better Outcomes



Changing The Resource Mix in Residential Construction



Changing The Resource Mix In Residential Construction



We Need Evidence & Data To Innovate Responsibly & Build Confidence – It Needs To Connect Inputs & Outputs

Press release

Homes England commissions MMC research study to drive construction innovation

Homes England has commissioned its own research study into modern methods of construction (MMC) to drive innovation in the construction industry.

Published 20 May 2020

From: [Homes England](#)



- As part of the agency's strategic objective to improve construction productivity and encourage the uptake of MMC in housing delivery, a series of Homes England's own sites will participate in the study.
- Monitoring the construction of around 1,500 homes at sites across country over several years, the study will test the performance of different types of MMC.
- The research will explore a range of themes and seek to learn lessons about how MMC technologies might be improved upon in future.

Related content

[Homes England register of interests](#)

[Shared Ownership and Affordable Homes Programme 2016 to 2021: qualification](#)

[Compliance audit breach severity list](#)

[Statistics at Homes England](#)

[Compliance Audit](#)

buildoffsite

ciria

Methodology for quantifying the benefits of offsite construction

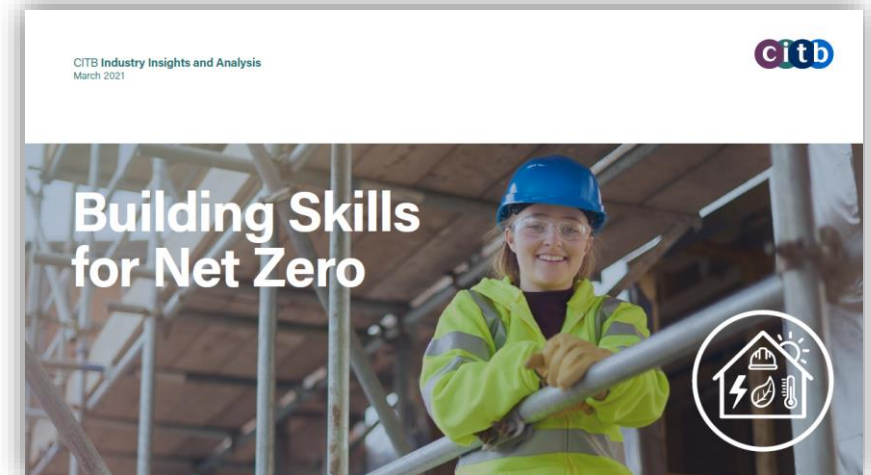
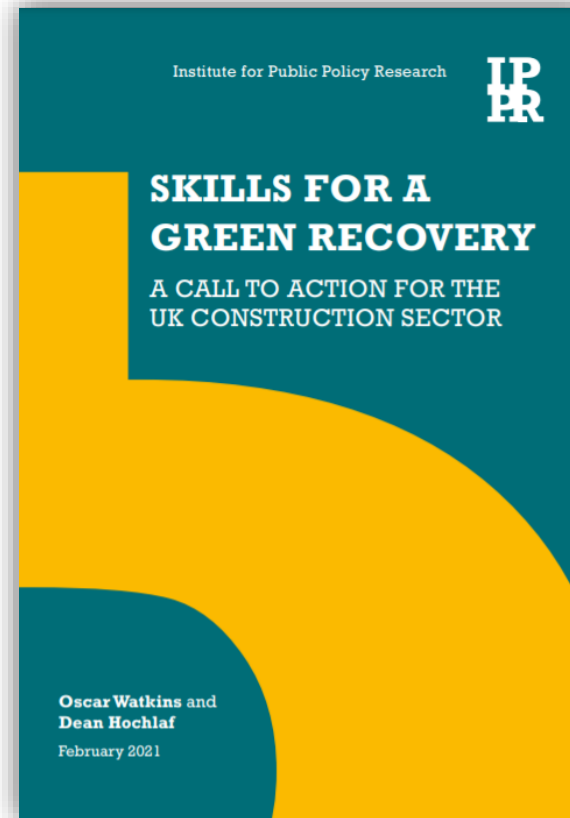


UNIVERSITY OF
CAMBRIDGE

LAING O'ROURKE CENTRE
for CONSTRUCTION ENGINEERING
and TECHNOLOGY



We Need To Invest In Human Capital Both Current & Future - Signs of Belated Concern On Skills & Resourcing – 3 Reports in 3 Months in 2021– Too Little Too Late?



We Need New Hybrid Skills & Competencies Across Professional, Technical & Trades - The Current System Is Still Not Future Facing

NEW LEARNING PATHWAYS & A NEW WAY OF THINKING

| | | | |
|---------|--------|--|--|
| 8 | PhD | HOMES FOR THE FUTURE INNOVATION CENTRE | NORTHUMBRIA UNIVERSITY |
| 7 | MSc | ADVANCED HOME FUTURES OFFSITE HOUSING CONSTRUCTION | TEESSIDE UNIVERSITY UNIVERSITY OF WOLVERHAMPTON |
| 6 | BA/BSc | ADVANCED HOME FUTURES DESIGN FOR FUTURE LIVING | TEESSIDE UNIVERSITY BIRMINGHAM CITY UNIVERSITY |
| 5 | HND | FUTURE HOMES DESIGN & CONSTRUCTION | PEARSON |
| 4 | HNC | FUTURE HOMES DESIGN & CONSTRUCTION | PEARSON |
| 3 | BTEC | CONSTRUCTION AND THE BUILT ENVIRONMENT | PEARSON |
| SCHOOLS | | | |

NEWSKEY TOPICSAGENDAPROJECTSDATAEVENTSSPONSOREDCONTACT

SKILLS

CITB levy approved but support falls

08 SEP 2021 | BY DAVID PRICE

Cadcoe Announces Digital Construction Training Partnership with Berkeley Modular Ltd and North Kent College

19th September 2019

In June 2019 Berkeley Modular Ltd started to move staff into its advanced manufacturing facility in Northfleet, Kent.

As innovators within the realms of digital construction and volumetric modular housing solutions, the new company started to look for an equally innovative solution towards the end of 2018, in how to attract exceptional talent and train them, through 10 new Design Apprenticeship positions.

Berkeley Modular Managing Director Graham Cleland, has taken a totally new approach to training the new apprentices through creating a working partnership between a combination of FE colleges and training providers to ensure the 10 apprentices receive precision training tailored to the exact requirements of the role they will be carrying out.

The 4-way partnership consists of Berkeley Modular Ltd, North Kent College, Dudley College of Technology and the Construction and Design Centre of Excellence (Cadcoe).

Berkeley Modular's Jade McPhun and Michael Ellis, with Mark Andrews, North Kent College

Architecture school announces first offsite construction course \

The UK's first dedicated post-graduate architecture course covering modern methods of construction (MMC) is being developed by Oxford Brookes.

CONSTRUCTION ASSEMBLY AND INSTALLATION OPERATIVE

Overview of the role

Assembling and installing manufactured components to agreed design specification and tolerance

Details of standard

This occupation is found in the construction sector. On site assembly of manufactured components is a rapidly growing part of the construction sector, representing 15% of the market in 2018. Projects include: infrastructure, residential, commercial, retail, healthcare, education, rail, prisons and leisure. Structures and components are manufactured in factories and then transported to the construction site, ready for location, connection and finishing. Materials can include concrete, timber, modular and portable buildings and can include plastic and steel components. Projects can be small local ones such as a bespoke house or nationwide in large scale developments such as residential and social housing, schools and hospitals. These can be permanent, temporary or re-locatable.

The broad purpose of this occupation is to use elements manufactured off site, installed and assembled in a construction site environment.

In their daily work, an employee in this occupation interacts with team colleagues and supervisors as well as those from other organisations such as main contractors, sub-contractors, architects, engineers, plant operators, drivers, Health and Safety Executive representatives, Environment Agency, site managers, construction managers and other trades. The occupation involves working outside on a construction site, in a range of weather conditions, on projects anywhere in the UK. In some instances it will involve travelling and working away from home.

An employee in this occupation will be responsible for the assembly and installation of manufactured components to agreed design specification and tolerance. This includes the safe handling, moving, installing and finishing to specification and within deadlines under the guidance of competent colleagues.

Status: Approved for delivery

Level: 2

Reference: ST0265

Version: 1.0

Approved for delivery: 3 July 2019

Route: Construction

Typical duration to gateway : 18 months (this does not include EPA period)

Maximum funding: £13000

Trailblazer contact(s):

alomplough@laingorourke.com

Employers involved in creating the standard:

Laing O'Rourke, Persimmon Homes, Berkeley Group, Pickering's Plant, Elliott Hire, Modular and Portable Building Association MPBA, SIG Roofspace, PCE Ltd, NOCN, CITB, Leeds College of Building, Costain, Skanska, British Precast, Barratt PLC, Crest Nicholson, Redrow Homes, Swift Timber Homes, Taylor Wimpey, Countryside Properties, Citu Group

IOA Provider: Construction Industry Training Board (CITB)



Lessons From Abroad - Australia Is Having A Very Robust Debate About Build Quality And Has Been Much Bolder Than UK

POLICY TED TABEL WED 10 JUN 20

NSW Building Commissioner Cracking Down on Developers



The New South Wales government-appointed Building Commissioner will be handed new powers in a bid to beef up regulation across the state's construction industry and prevent defective buildings hitting the market.



National NSW Development outrage

Developers forced to fix defects after commissioner wields new powers

NSW launches ratings for developers in wake of HomeBuilder grants



By Harrison Astbury on June 22, 2020



Photo by Saxon White on Unsplash

Today the NSW Building Commission announced a ratings system for apartment developers to "weed out" dodgy developers after HomeBuilder

The Sydney Morning Herald

- Developers have been slapped with orders to fix serious defects in apartment buildings and
- townhouses, as the NSW Building Commissioner signals he will not hesitate using his strongest
- powers to stamp out shoddy work in the construction industry.

Enabling industry capability to deliver the
Design and Building Practitioners Act 2020 No 7



Aiming to develop a strategic framework for
digitalisation of class 2 designs and as-built
drawing declarations that facilitates a
feasible and effective implementation



NSW Office of Building Commissioner



Digital capability will define the winners and losers in construction. However, having mature applied capabilities will always ensure a winning hand.

Published on January 4, 2021



Change Is Happening But It's Slow – Higher PMV & Technology Is Here To Stay – It's Just Scale & Pace That Is Needed



JRL snaps up stricken modular housing firm

ISG buys majority stake in modular specialist ESS Group

Countryside to open two more modular homes factories

Bam Construct eyeing move into modular residential

24 MAY 2021 | BY DAVID PRICE

Barratt sets new MMC target after beating 2020 aims

Guinness pays £10m for stake in offsite specialist Ilke Homes

NEWS 27.09.21 11:35 AM BY JAMES WILMORE

The Guinness Partnership has become the latest large housing association to take a stake in offsite specialist Ilke Homes by paying £10m for a minority shareholding, it has emerged.

Mace unveils 'next generation' construction method

December 5, 2019



News

Robots to ramp up Sisk margins in productivity push

Aaron Morby 1 year ago

Share    

John Sisk & Son is on a major productivity drive with plans to buy an offsite manufacturing business and deploy block and bricklaying robots.



THANK YOU FOR LISTENING

