The UK's MMC Maturity Journey

Implications for Construction & Homebuilding Sector

Mark Farmer, CEO Cast Consultancy 5th October 2023 Housing Market Intelligence Conference



The Exam Question Has Not Changed, It Has In Fact Got More Urgent – How Do We Protect Against Declining Resiliency?





/rɪˈzɪlɪəns/

noun

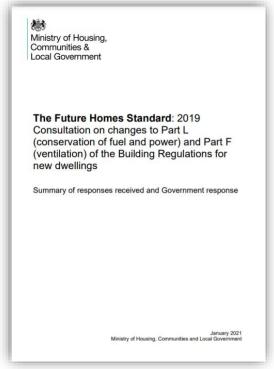
- the capacity to recover quickly from difficulties; toughness.
 "the often remarkable resilience of so many British institutions"
- the ability of a substance or object to spring back into shape; elasticity. "nylon is excellent in wearability, abrasion resistance and resilience"



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Regulatory & Financing Burdens Increasing – Build Quality & Process Improvements Being Forced Onto An Increasingly Stressed Workforce







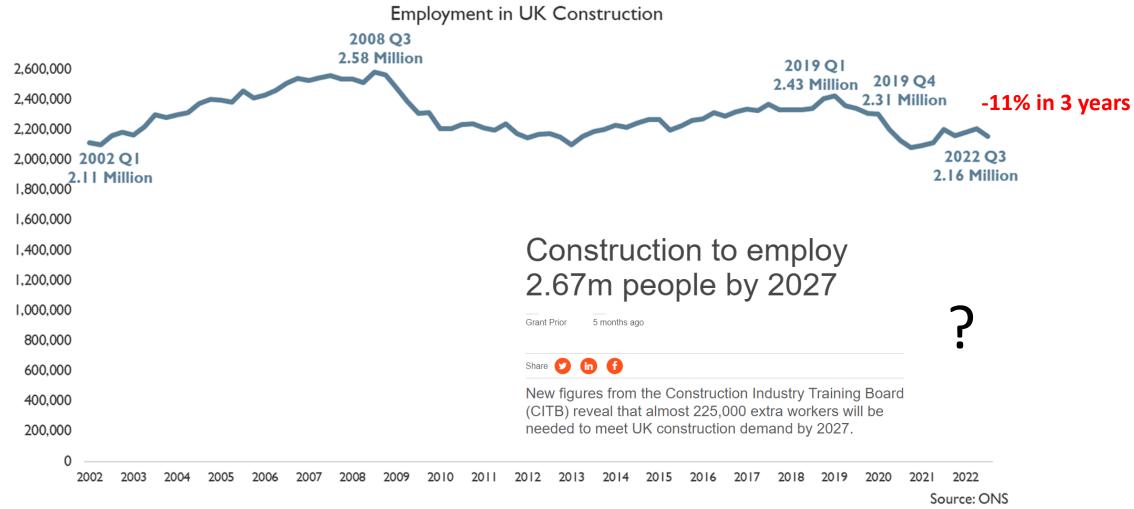








The Workforce Decline Is Increasingly Showing Itself – There Might Be A Short Term 'Mirage' As Output Falls in 2023/24 But The Prognosis Is Worrying





Labour Scarcity Is Insidious: Productivity Quagmire Means We Need To Prepare For Paying More For Less

Inflation 'adds £23bn to annual construction output costs'

15 FEB 2023 BY TIM CLARK

Some bricklayers now earning OVER £125,000 due to shortages as industry bosses fear government target of 300,000 new homes a year will be missed unless more are trained

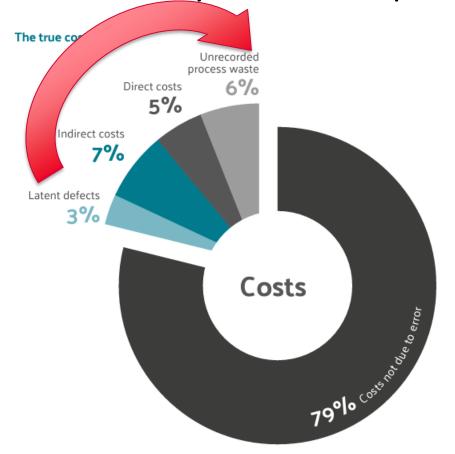
· Some senior bricklayers are earning £2,500 a week due to brickie shortages

The ONS said output per hour worked among the Square Mile's banks, brokers and insurers contributed a 0.4 percentage point contraction to the overall productivity figures.

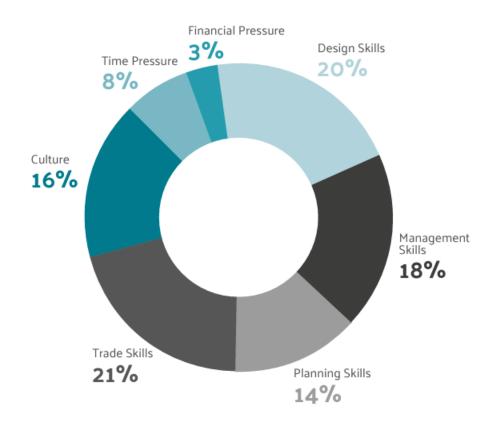
Construction staff notched the biggest gains, adding 0.7 percentage points to the total.



Our Current Labour Efficiency Is Burdened By Waste & Error – 120+% Effort Needed for Every Unit Of Output – Competency Related





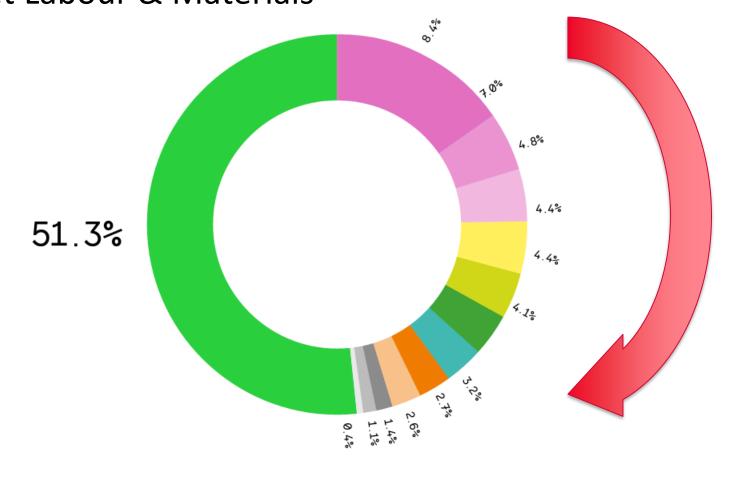


Source:Get It Right Initiative



Construction Also Has A Major Sub-Contract Generated Transactional Waste Problem: <50% Of Total Cost Is Net Labour & Materials





Source: Internal government construction analysis, 2017.



Continued Poor Construction Productivity & Competence & High Prices Now Risks Undermining Public Sector Value For Money Tests For Infrastructure Spend

Rishi Sunak pushes to axe northern HS2 rail line ahead of Tory conference

Euston, we have a problem: unbuilt HS2 station racks up £289m in design fees

Press release

PM confirms £3.7 billion for 40 hospitals in biggest hospital building programme in a generation

The Prime Minister confirms that 40 hospitals will be built by 2030 as part of a package worth £3.7 billion.

School Budgets: Impact of Inflation

Volume 717: debated on Monday 4 July 2022

More major road schemes face the chop

25 NOV 2022 BY COLIN MARRS

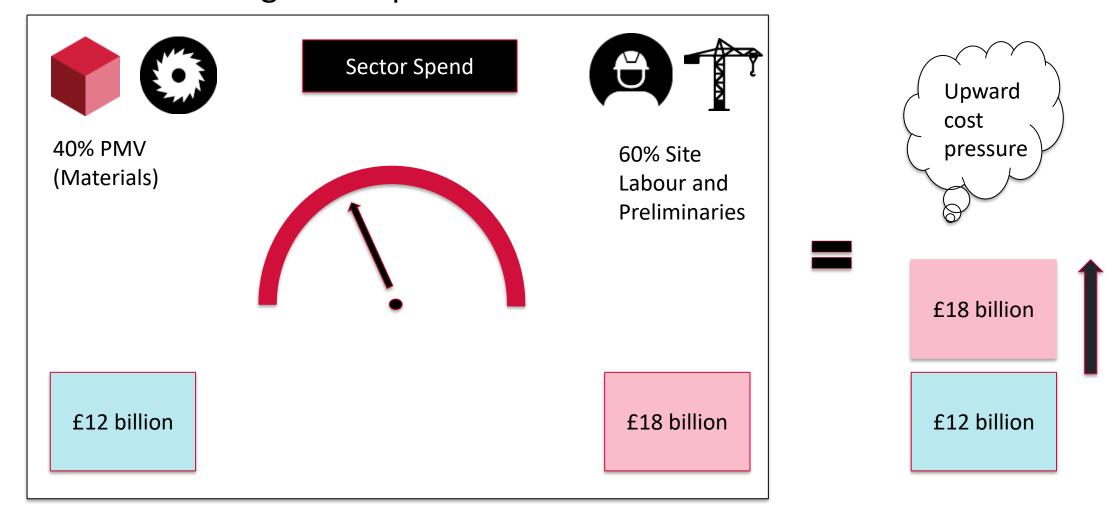
More major road projects face cancellation due to inflation and poor oversight, according to a report by a government spending watchdog. The National Audit Office identified a £3.3bn increase in the cost of planned investment into the strategic road network for the period between 2020...

Budget for 40 new NHS hospitals faces real-terms cut of £700m, say Lib Dems

Capital budget of £12bn a year to shrink to £11.7bn, putting Tories' claim 40 hospitals in England will be built or renovated in doubt

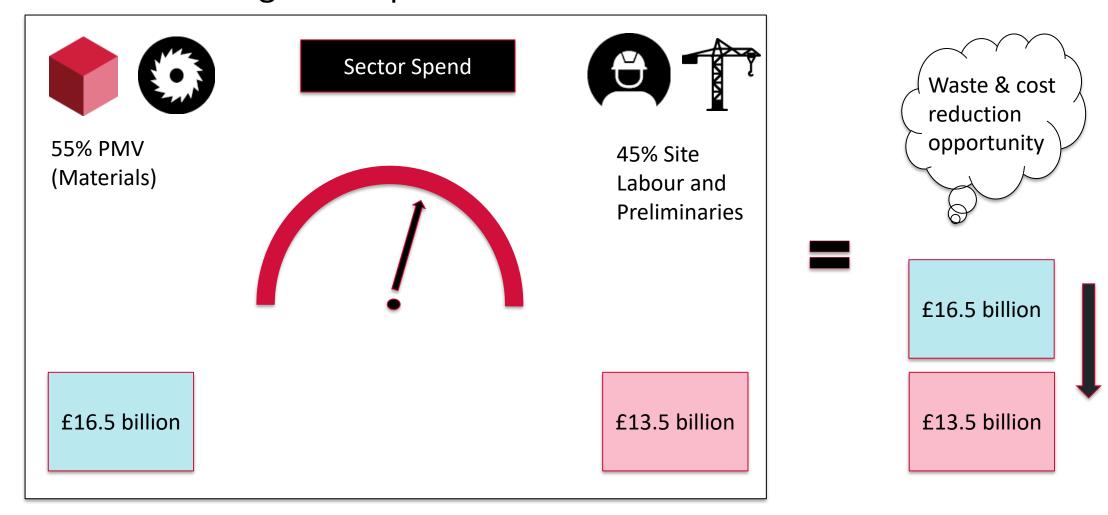


We Need To More Incrementally Change The Process & The Resource Allocation In Housing Development



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We Need To More Incrementally Change The Process & The Resource Allocation In Housing Development



6 October 2023 © PMV by Cast 10

Certain Types Of MMC In UK Has Struggled To Build Economic Resilience In The Last Few Years....And In Certain Instances Has Also Failed To Technically Execute

Urban Splash's modular spin-off falls into administration

Legal & General halts new production at modular homes factory near Leeds

Group tells staff it will let most of them go, as it considers options for loss-making factory

L&G modular homes hit by mould problems

Ilke Homes files administration notice

Ilke Homes: Yorkshire modular construction firm dubbed 'the future of housebuilding' which received £30million in Homes England funding to be prosecuted for health and safety offences

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MMC Adoption <u>Is</u> Happening Though But More Incrementally And Primarily Through Existing Players Not New Disrupters

Vistry set to reverse Countryside's decision to pull out of modular after takeover inked

JRL snaps up stricken modular housing

firm

Housebuilder Hill snaps up collapsed offsite firm

Persimmon invests in industry-leading modular house builder TopHat

Homes builder Taylor Wimpey creates timber frame manufacturing hub at £60 million logistics park in Peterborough

Weston says first MMC homes will start rolling off production line by spring

Barratt ramps up MMC homes target to 30% by 2025

Cala acquires Taylor Lane Timber Frame to bolster sustainable construction practices

By Joey Gardiner | 16 January 2023



Full Volumetric Modular in Residential Is Struggling To Land In The UK Market – Focus Is Being Turned To 'Kits of Parts' And Multi-Category 'Hybrid' MMC



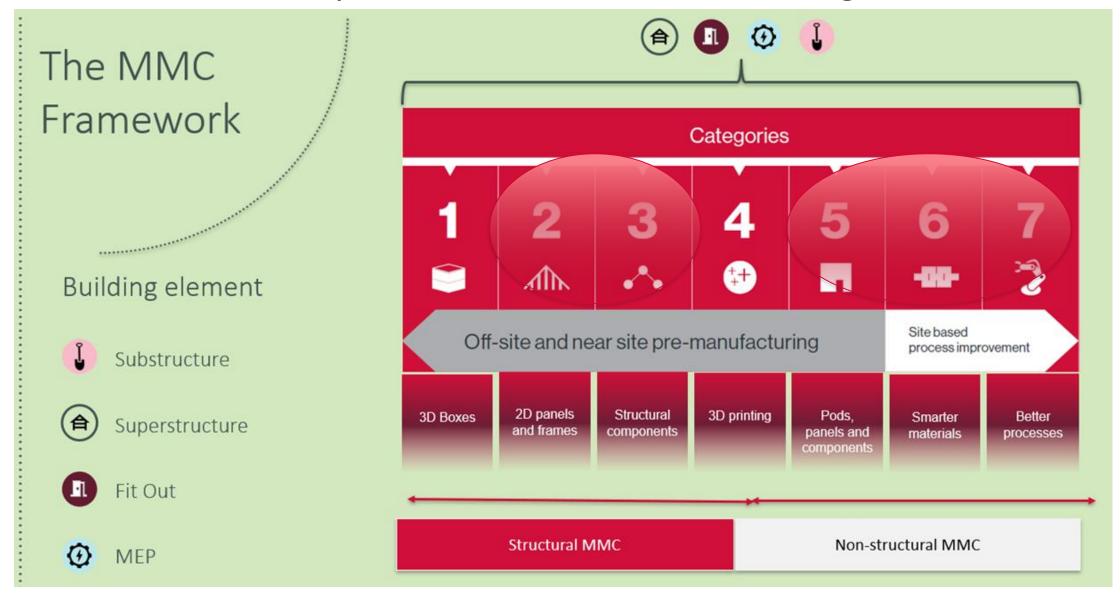
versus







We Need To Think Beyond 'MMC = 3D Modular Buildings'





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The Housebuilder Utopian Position – Adding Pre-Manufactured Value To Structure, Fabric & Internal Wet Areas Whilst Replicating Aesthetic <u>And</u> Still Making The Cost Equation Work

















Labour Market Failure & Wage Inflation Will Eventually Get Us There – The Current Housing Cycle Will Delay Things Though



MMC Needs Technology To Make It Truly Scalable – 'Building In A Shed' Can Be More Inefficient & Expensive Than Site Work Unless You Optimise Manual Process!



versus





Unfortunately Technical Accreditation & Regulatory Failure Plus Scaremongering Means Innovation Is Still Marginalised





















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An Industry Productivity & Quality Shift Is Not Just About Digital, Factories & Robots, It Requires Fresh Investment In Human Capital – Existing & New





Workmanship Failure Risk Is Proportionate To Site Labour Intensity. There Is A Basic Competency Gap Not Just A Skills Gap Across The Trades





UK Government Needs To Give Clarity On Choice Between Relying On Cheaper, Imported Labour Or Developing A Domestic Solution

Visas for foreign construction workers in bid to fill UK job shortages

Sir Keir Starmer: Britain's 'immigration dependency' must end in CBI conference speech



Construction pros call for immigration reform to fill surge of open jobs

A lack of political will has stymied efforts to tap foreign-born workers for a coming flood of public and private projects, according to industry advocates.

Published Oct. 18, 2022



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Our Industry Has To Change And It Will – It's Just A Matter Of How Quickly



- External 'Shock' Events
 - Regulatory Change
 - Public Procurement & Funding
- ESG Led Investment
- Lending & Insurance of Buildings

- Labour Market Structural Decline
- Changing Consumer & Societal Expectations
- Reputational & Business Trading
 Risk
- FOMO





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