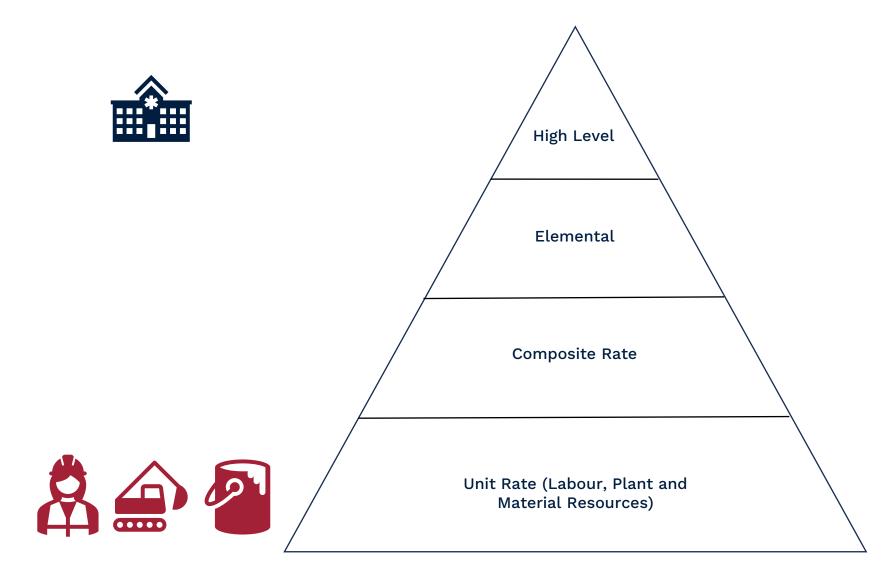


### AGENDA

- ► How cost data is used in project estimates
- External forces on and significant variations in construction costs
- ▶ The pitfalls of using inappropriate cost data
- ► How to ensure cost data reflects your specific project requirements
- ▶ How you can reap the benefits of using reliable cost data



# DIFFERENT LEVELS OF CONSTRUCTION COST DATA





# DIFFERENT LEVELS OF CONSTRUCTION COST DATA



Building function (Maximum age of projects)	£/m² gross internal floor area						
	Mean	Lowest	Lower quartiles	Median	Upper quartiles	Highest	Sample
New build							

412. General hospitals, GP hospitals, cottage hospitals

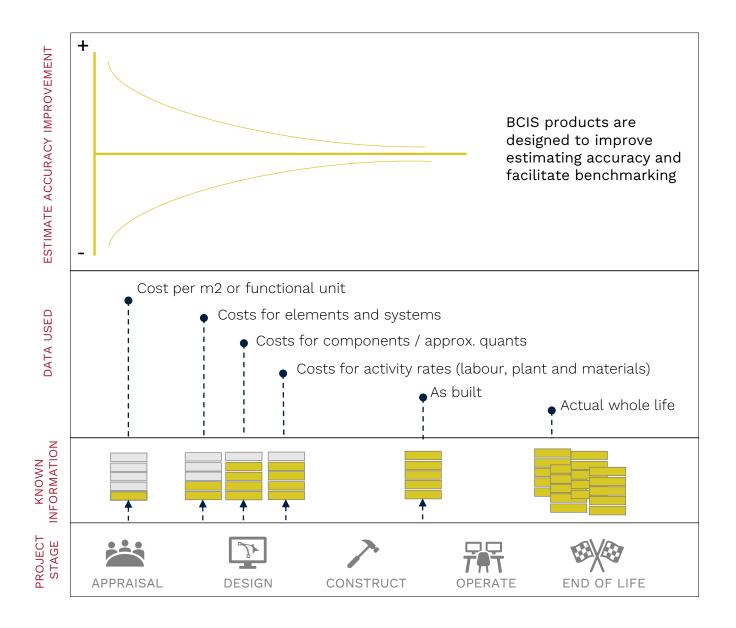
Source: BCIS Average Prices

Code	Description	Quantity	Unit	Rate	Total
A	Labour, plant, mortars and aggregates				
	Labour				
A2012	General Operative (skill rate 4)				
A	Labour, plant, mortars and aggregates				
A1	Wages - CIJC				
A2012CIJC	General Operative (skill rate 4)	1.00	hour	16.42	= 16.42
		1.00	Sub-Total		= 16.42
	Sum of Sub-Total / Quantity	1.00	Unit Price		= 16.42
	Waste				
	Overheads and Profit				
	TOTAL			16,42	16.42



Source: BCIS Major Works Estimating Prices 2024

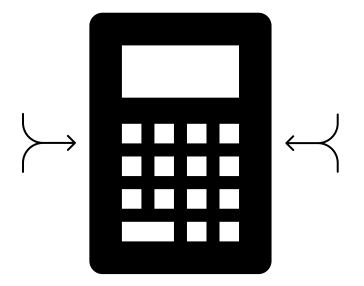
# HOW COST DATA BECOMES MORE REFINED





### SOURCES OF CONSTRUCTION COST DATA

- Building Merchant Prices
- Bills of Quantities
- Cost Analyses
- ▶ Construction Site Wage Rates
- Import Price Indices
- Industry Earnings Statistics
- Manufacturer Price Lists

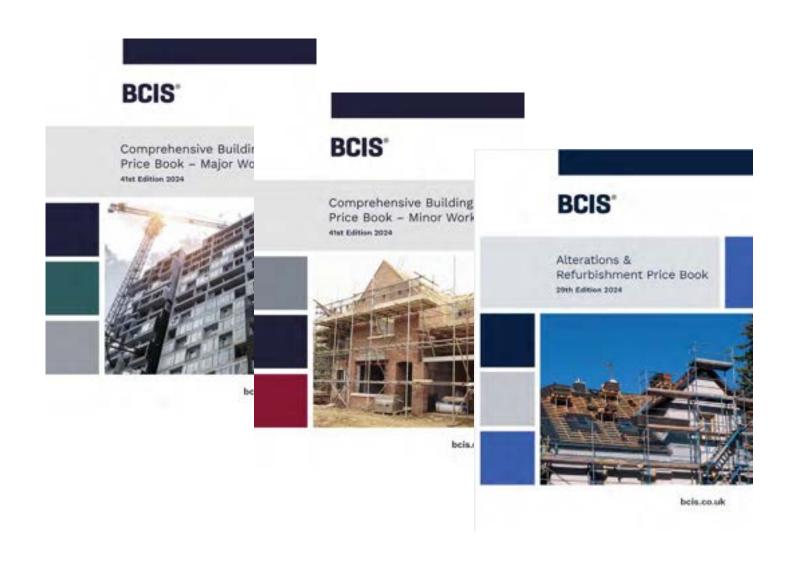


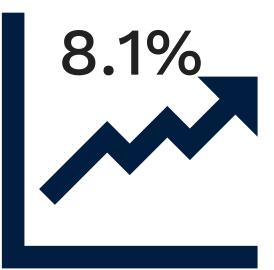
- National Wages Awards
- Plant Hire Firms
- Producer Price Indices
- Survey Respondents
- ▶ Taxes, e.g. Landfill
- ► Tender Prices



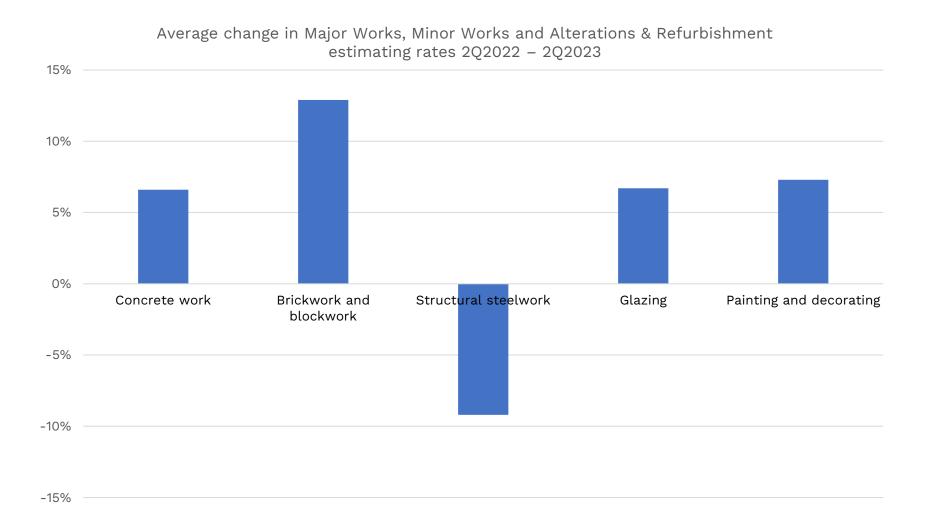
# EXTERNAL FORCES ON CONSTRUCTION COSTS



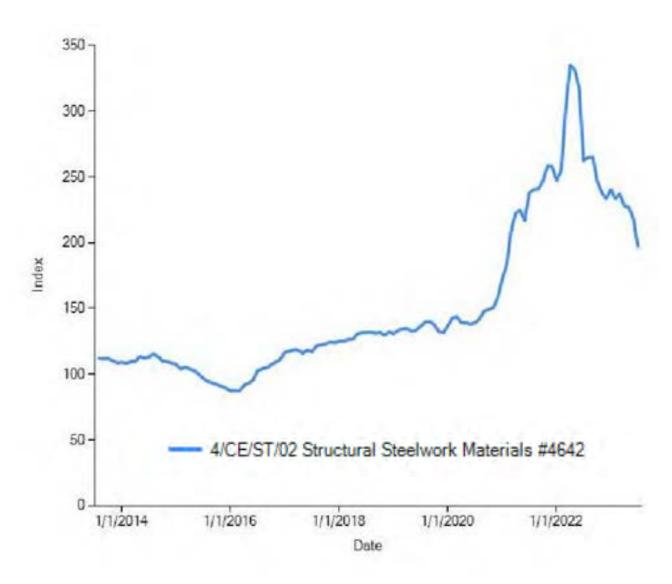






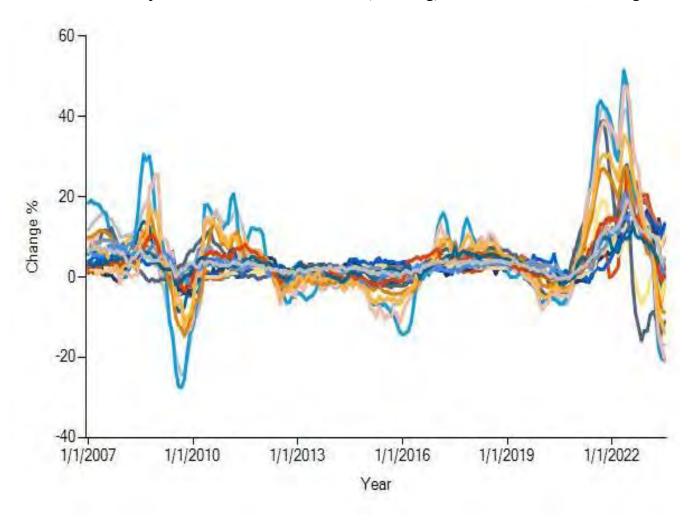




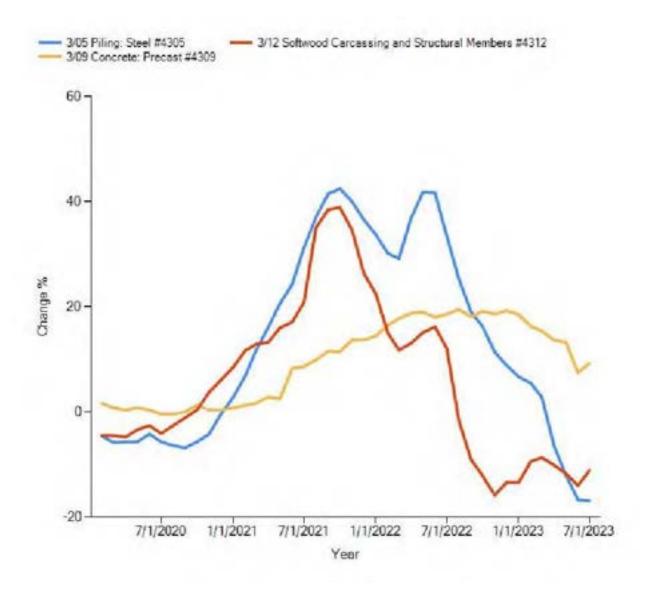




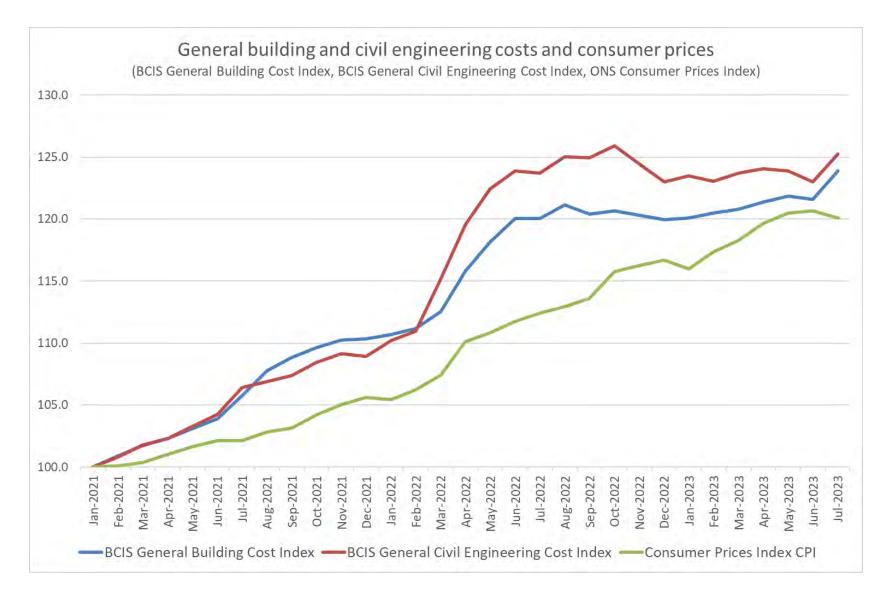
Price Adjustment Formulae Indices (Building) Series 3 Annual % Change



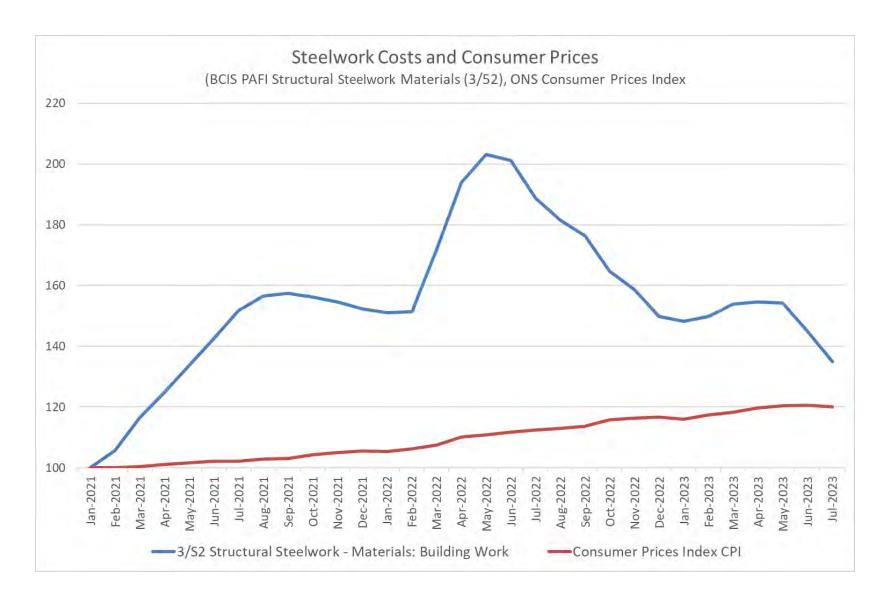














# LOCATION, LOCATION







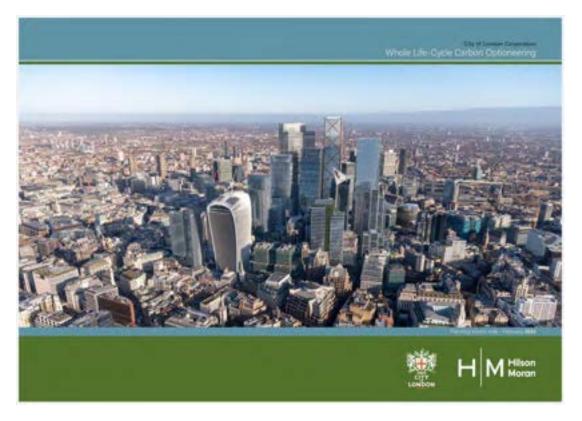
# LOCATION, LOCATION

MAYOR OF LONDON

London Plan Guidance

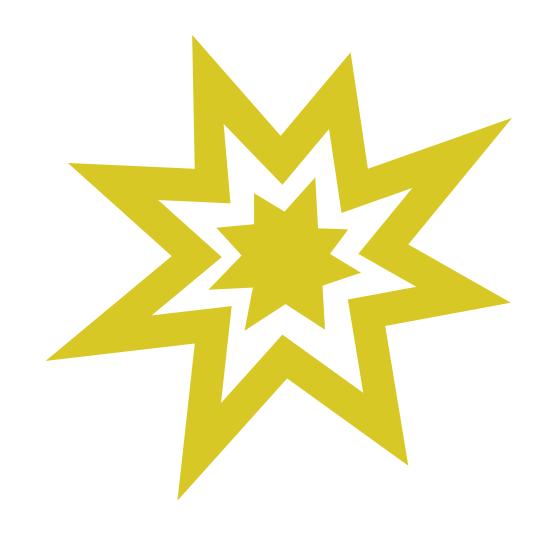
Whole Life-Cycle Carbon Assessments

March 2022





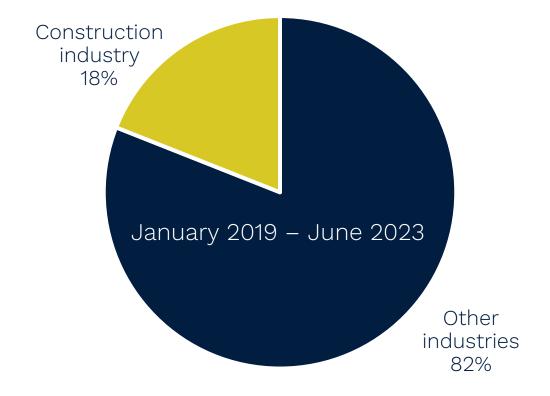
# THE PITFALLS OF USING INAPPROPRIATE COST DATA





### CONSTRUCTION DISPROPORTIONATELY AFFECTED BY INSOLVENCY

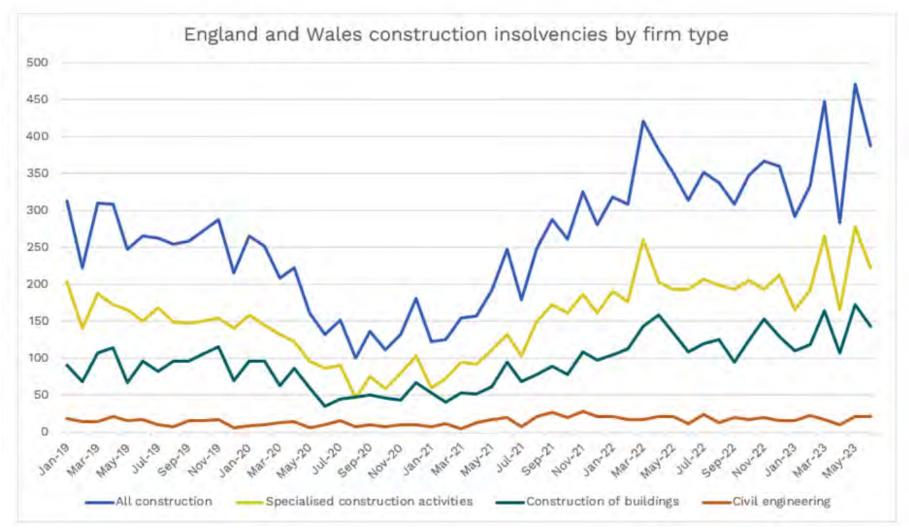
- ▶ 4,282 registered construction firm insolvencies from July 2022 June 2023
- > 347 self-employed bankruptcies in construction from June 2022 May 2023







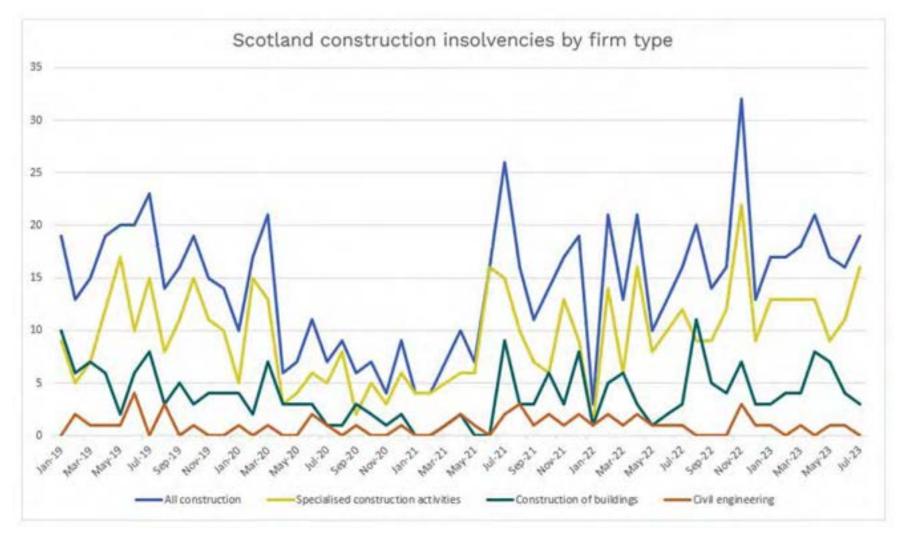
## CONSTRUCTION FIRMS AFFECTED BY INSOLVENCY







# CONSTRUCTION FIRMS AFFECTED BY INSOLVENCY







### EVEN LISTED COMPANIES ARE NOT IMMUNE FROM HARM



"To some extent, sectors like outsourcing, **construction** and software have an additional structural vulnerability to profit warnings due to their exposure to the **contract cycle**. But this doesn't make such high levels of profit warnings inevitable. Many of the problem contracts triggering profit warnings have flaws in their **inception and execution**."

Dr Mona Bitar, EY Parthenon







Table 1: Allocation of items to Consumer Prices Index including owner occupiers' housing costs (CPIH) divisions in 2023

	CPIH weight,	Observed	Representative
	February 2023	variation in price	items <sup>2</sup> (per cent
	(per cent)	changes <sup>1</sup>	of total)
1 Food & non-alcoholic beverages	9.6	Medium	24
2 Alcohol & tobacco	3.5	Low	4
3 Clothing & footwear	4.8	Medium	12
4 Housing & household services	30.3	Low	4
5 Furniture & household goods	5.6	Low	10
6 Health	1.8	Low	3
7 Transport	11.1	Low	7
8 Communication	1.9	Medium	2
9 Recreation & culture	11.2	High	17
10 Education	2.3	Low	1
11 Restaurants & hotels	11.2	Low	6
12 Miscellaneous goods & services	6.7	Low	10





#### Calculation Adjustment factor Value Inflation 2Q2023 to 1Q2025 as TPI 1.05 Location North West Region (99; sample 943) 0.99 Contract value Adjusted from 3,850,000 to 400,000 1.09 **Preliminaries** 10% addition 1.10 OHP 5% addition 1.05



1.31

Source: BCIS Schedule of Rates

Overall adjustment

Total labour cost per hour

2

Effect of 10p/hr plus rate on total cost per hour (see note 2 below)

0.

#### PLEASE READ CAREFULLY THE NOTES PRECEDING THE FOREGOING CALCULATION AND AS FOLLOWS

Sources - BATJIC Agreement effective from 19th June 2023, NI revisions as at 6th April 2023.



### THE BENEFITS OF USING RELIABLE COST DATA

- Improved cashflow management, budgeting and cost-certainty.
- Competitive tenders that won't cause problems later.
- A more reliable basis for entering into fixed-price contracts.
- Solid foundation to look at cost-savings and value engineering.
- Wide-ranging data allows for pricing of unfamiliar resources and methods, as well as new work areas.
- ▶ Clear audit trail provides protection in potential disputes.
- Streamlined estimating process with easy access to cost data means you can work more efficiently, in itself a cost-saving.





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