

ConstructionWaste Portal.com

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Wasted resource; wasted profit

£120bn output; ~8% GDP

3m employed; 315,000 companies

61% of all UK waste; 120 million tonnes

£6.5bn cost

30% of profit on UK projects lost to
overspend on waste

Producer obligations

Factors influencing waste production

Inventory (Procurement)

Time (Waiting)

Underproduction (Programme)

Overproduction (Recovery)

Defects

Repetition

Resource (People)



Factors and symptoms of cost uncertainty



Tender price stress

Pressure to reduce waste cost estimate to be competitive

Lack of tender stage activity; BoQ's etc.

Lack of viable, robust data

Service level provision of waste company

Cost pressure; "most economic"

Profit impact from additional cost

Regulatory compliance risks; WTN's, misclassification

What happens when it goes wrong?

Case Study 1 (Autumn 2018)

Large commercial office development

£50k tender allowance

Total spend £450k

Overspend circa 40% of available profit at outset

Case Study 2 (Summer 2019)

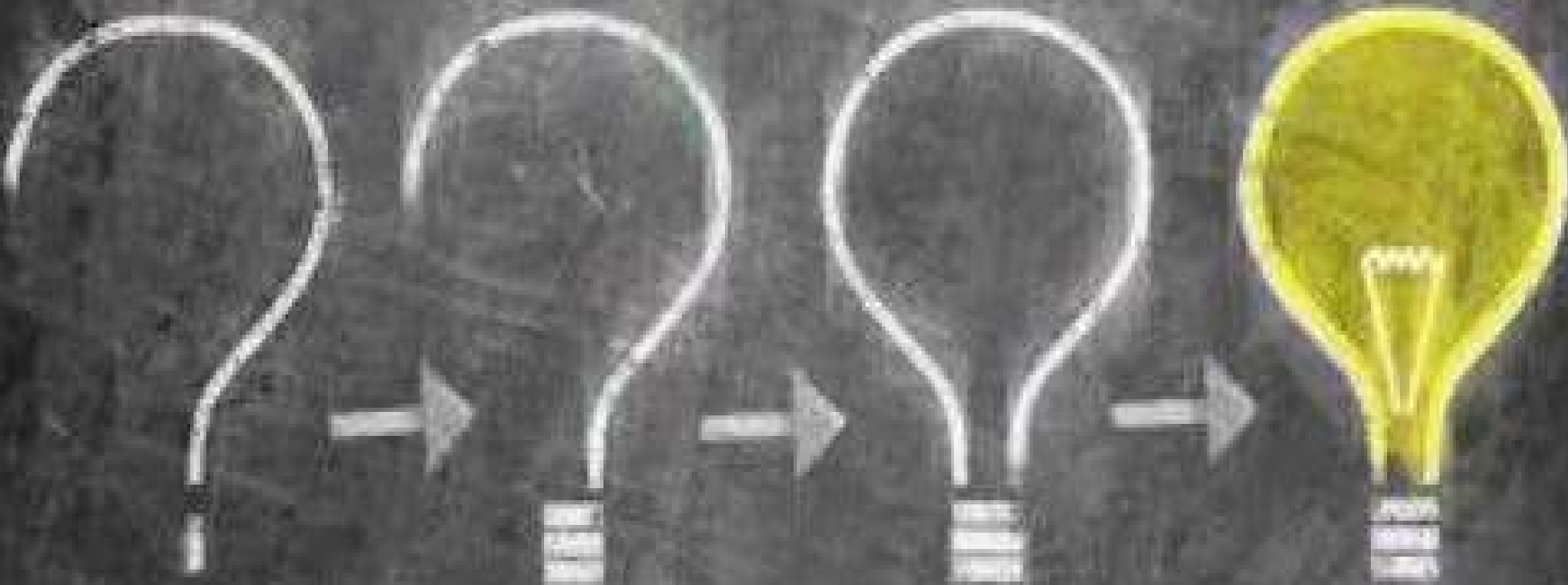
47 live UK-wide projects assessed

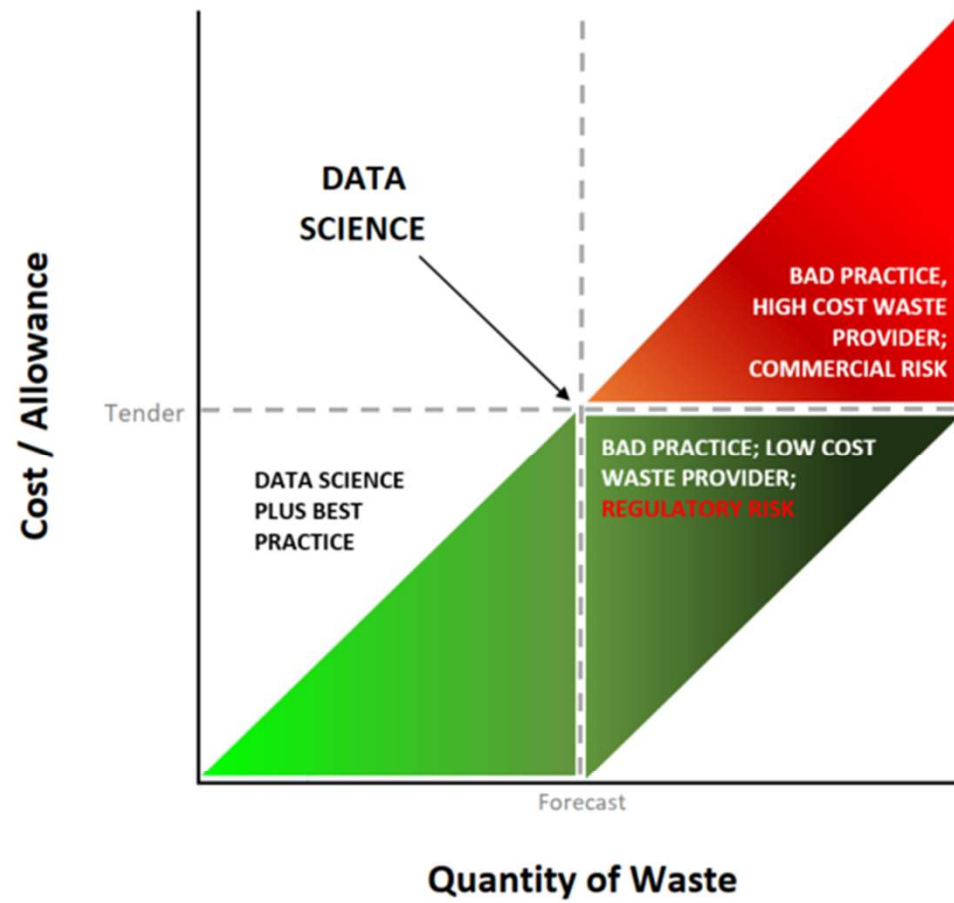
Only 12 on target v tender allowance

Of the 35 already over allowance, 21 were beyond programme midpoint

14 horror stories beckon

Guesswork is the real waste

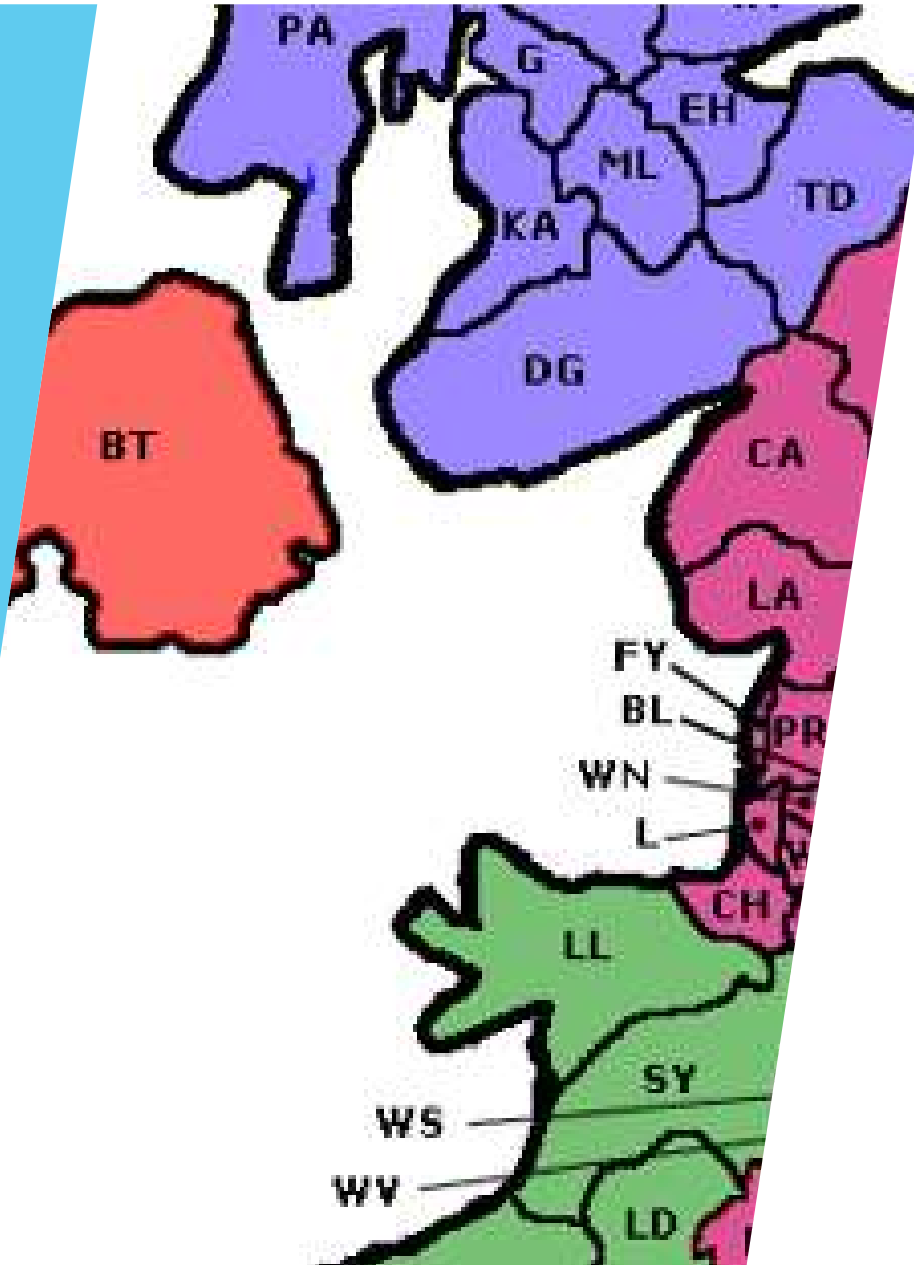




“A single integrated platform for forecasting, costing and monitoring construction waste.”

- No such product exists on the market
- Live marketplace; constant evolution
- Drives improved standards in resource management
- Informed cost decisions and incentivisation
- Drives resource reuse and commodity recovery
- Forecasts mature as datasets improve
- Described as a “game changer” by industry bodies





Live Marketplace

Waste data matched to zonal postcode areas

Data Science-driven forecasting

Based on GIFA and project type e.g. Offices

Live commercial rates matched to same zones

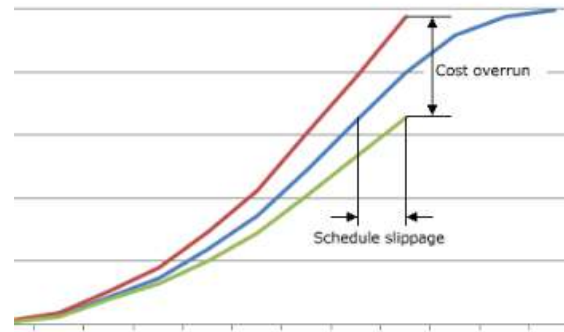
Performance levels derived from standard deviations within data

High degree of data assessment and interpolation from thousands of project data points

Real Project Test

The project has been anonymised, however the outcomes are real and verifiable. The project was a new office development located in the Midlands.

- ▶ GIFA: circa 22,000 m²
- ▶ Value: £41m
- ▶ Tender Allowance for Waste: £121,000
- ▶ ConstructionWastePortal.com Estimate: £264,502
- ▶ Waste Spend: **£306,601 (2.5x allowance)**
- ▶ Overspend: **£185,001**
- ▶ Profit Effect: **-11.2%** (based on 4% margin)
- ▶ Overspend using ConstructionWastePortal.com estimate: **£41,499**
- ▶ Profit Effect using ConstructionWastePortal.com: **-2.5%** (based on 4% margin)



Although waste production and management was poor, using ConstructionWastePortal.com would have saved **8.7%** of the available margin, some **£143,547** in retained profit to the contractor.

Beneficiaries

- ▶ Clients / developers and their advisors
- ▶ Designers
- ▶ Construction companies of all sizes
(QS, estimators, buyers, environmental)
- ▶ Supply chain / subcontractors
- ▶ Waste management companies
- ▶ Industry Associations & Advisory Bodies
- ▶ Market analysts
- ▶ Data analysts



Summary? Simple.

- ▶ Unique science-based application
- ▶ Industry need / demand
- ▶ Promotes collaboration
- ▶ Creates competitive, responsive and progressive waste market
- ▶ Reduces commercial risk on cost of waste
- ▶ Drives resource efficiency and best practice
- ▶ Embodied carbon calculation currently being coded



“It’s not about market intelligence; it’s about creating an intelligent marketplace.”

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