Refining Value

Bringing an end to the culture of cheapness

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Drivers for change

- Productivity
- Fragmentation
- Skills crisis
- Quality
- Improved social outcomes
- Safer and more resilient buildings
- Increased new skills
- Increased investment

Source: ONS / Transforming Infrastructure Performance, IPA, 2017.
Construction Sector Deal

£170m Government funding

£250m Matched industry funding

£59m Construction Innovation Hub

£36m Active Building Centre

£72m R&D Projects

4 years of funding

Sustainable long-term model

£170m

£250m

£59m

£36m

£72m
Who we are – our mission

Our mission is to be a catalyst for transforming the UK construction sector through manufacturing technologies and digital ways of working – boosting productivity, exports and asset performance to benefit society.
Four core partners…
Programme > Key inputs

Construction Innovation Hub

- Manufacturing & product family architecture
- Standards & compliance
- Information management framework
- Security

Government → Construction Innovation Hub → Industry
Programme > Key outputs

Improved through life performance

**Owner**
- Predictable, high quality projects
- Better performing assets

**User**
- Improved experience
- Higher quality, safe environment

**Operator**
- Better, useable data
- More effective O&M strategies

**Industry**
- Safer
- Predictable
- Profitable
Programme > Key outcomes

- **Productivity** – output per worker
- **Additional GVA**
- **Business support** – innovate, invest and grow
- **Skills** – jobs and apprenticeships
- **Support rebalancing**
- **Support local businesses and community**
- **Waste** – reduction in volume to landfill
- **Carbon** – reduced whole life energy use
- **Emissions** – reduced vehicle miles
Inputs, Outputs and Outcomes

Inputs
- Government
- Construction Innovation Hub
- Industry

Outputs
- Manufacturing & product family architecture
- Standards & compliance
- Information management framework

Outcomes
- Improved through life performance

Outcomes
- Economic
- Social
- Environmental

Twin outputs
- Physical
- Digital
1. Targeting the right outcomes

- Moving beyond “cheap” – defining success though both project and whole life value, delivering wider social, economic and environmental impact
2. Assuring delivery

- The Golden Thread provides the assurance that the completed building / asset meets the required safety and quality standards, and includes testing and certification services.
Digital twins are realistic digital representations of physical things. They demonstrate whether the operational asset is delivering the intended high value outcomes.
Any future project…

- Will require articulation of outcomes, the assurance and digital twins created
- Irrespective of whether it is conventional construction, retrofit or some advanced manufacturing solution
  - and whether it is a school, bridge, highway or hospital
- Additionally, our programme delivers the unique approach required for a manufactured platform approach
Platform scope joins together those streams related to embedding and enabling a manufactured solution.
Sector wide programme

A programme that aims to:
- Boost productivity
- Create future facing standards
- Improve assurance
- Exploit data / digital solutions
- Reduce carbon
- Improve performance and perception of the sector
- Drive true value for the sector and society
Join the transformation

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