Transforming Construction
Delivering better outcomes for business and society

Keith Waller
Programme Director
Construction Innovation Hub

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Drivers for change

- Lower costs: 33% reduction in the initial cost of construction and the whole life cost of built assets
- Lower emissions: 50% reduction in greenhouse gas emissions in the built environment
- Faster delivery: 50% reduction in the overall time from inception to completion, for newbuild and refurbished assets
- Improvement in exports: 50% reduction in the trade gap between total exports and total imports for construction products and materials

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

4 years of funding

Sustainable long-term model

£59m

£36m

£72m

£72m

£36m

£59m

Construction Innovation Hub
Active Building Centre
R&D Projects
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

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

**Outputs**

**Outcomes**
- Improved through life performance
- Economic
- Social
- Environmental

**Twin outputs**
- Physical
- Digital

Feedback loop
Platforms in the Hub’s programme

- Digital twins
- Golden thread of information
- Platform
- System configurator
- High value outcomes
- Rulebook
- Kit of parts
Join the transformation

www.constructioninnovationhub.org.uk

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Construction Innovation Hub

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