

Procuring for Value

Construction Innovation Hub – Context

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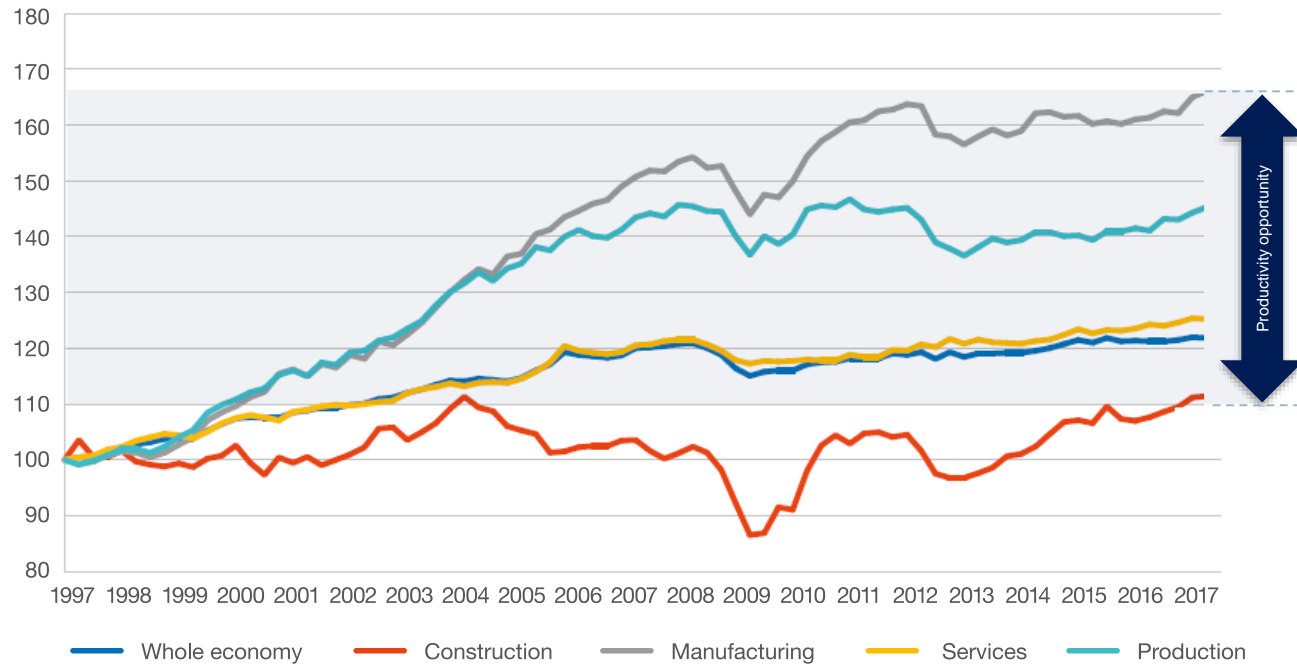
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Catalyst for transformation



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

Drivers of change



Source: ONS / Transforming Infrastructure Performance, IPA, 2017.

Programme

Inputs

Outputs

Outcomes

Government

Manufacturing & product family architecture

Standards & compliance

Information management framework

Security

Construction Innovation Hub

Industry

Improved through life performance



Physical

Twin outputs

Digital

Feedback loop

Outcomes

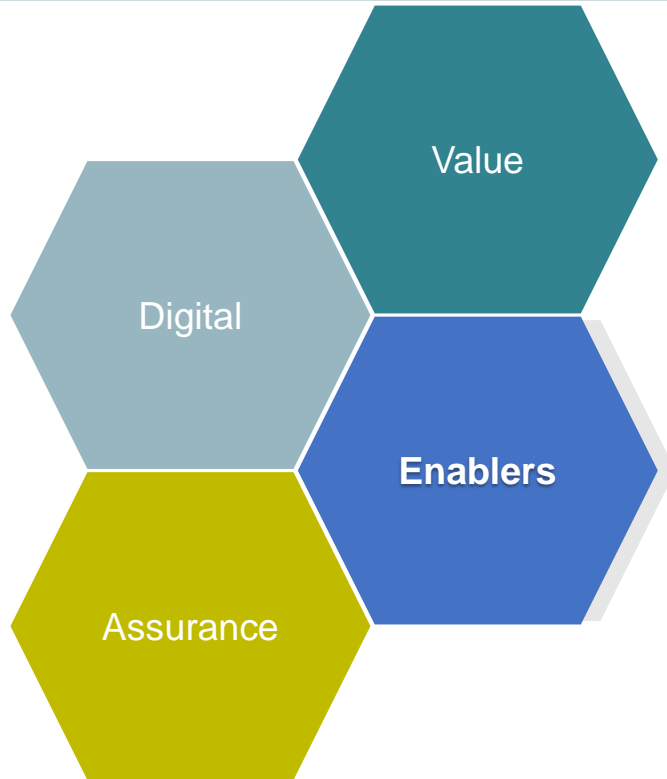
Economic

Social

Environmental

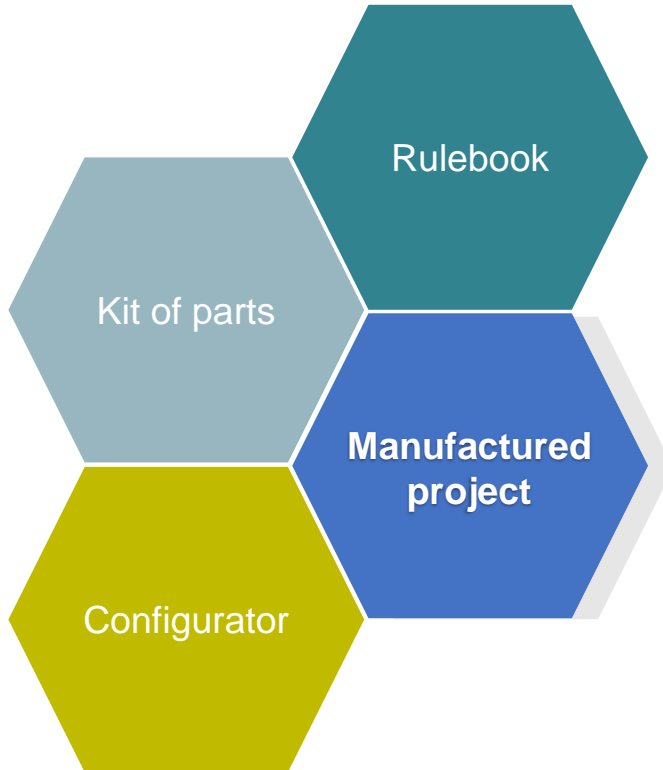
Performance data

Technical programme - Enablers



- **Value** – including work on Procure for Value, commercial models, new business models, future skills
- **Digital** – including work on digital twin, information management framework, international BIM programme
- **Assurance** – including testing, certification, digital standards
- These apply across all projects, whether manufactured, conventionally constructed or retrofit.)
- These are being delivered across all three Hub centres:
 - Along with government – in particular IPA, DfE, MoD, DfT, MHCLG, MoJ, DHSC
 - And industry – in particular our strategic partners, including CLC & CE

Platforms – Hub approach

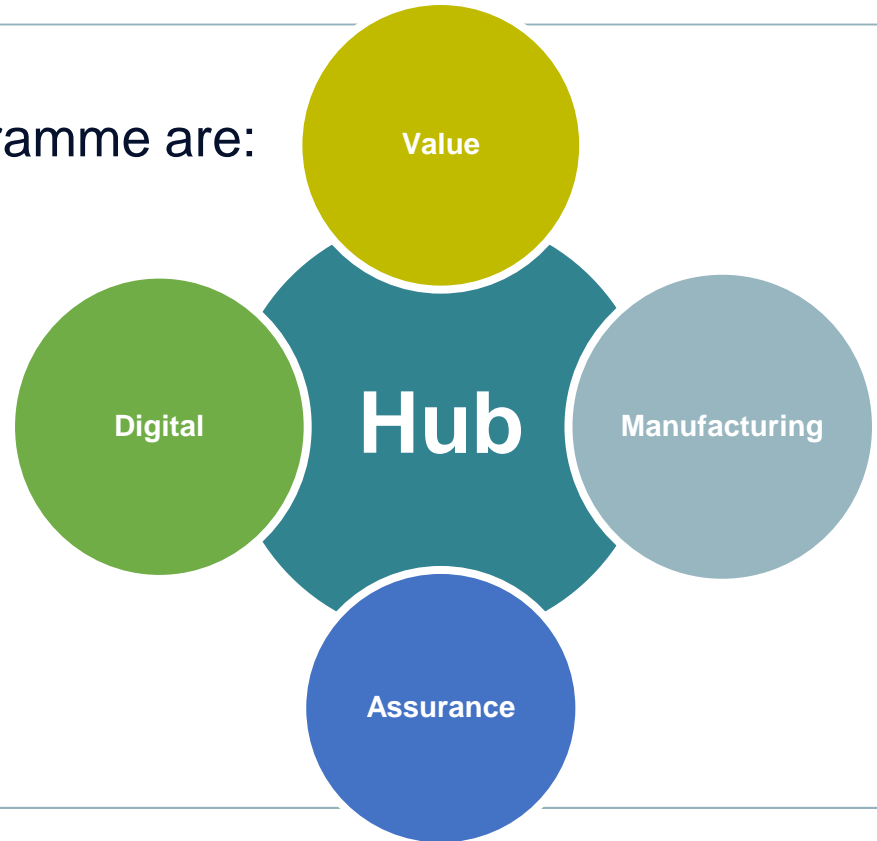


- The fourth strand – **manufacturing** – is how we intend to enable platform based solutions to be adopted at scale, improving performance, boosting productivity and reducing carbon.
- It is inextricably linked to the other three streams, but has some specific elements that must be in place for a manufactured, platform approach to succeed. These include:
 - The creation of new “free”, open source, interface standards that define how components and sub-assemblies should come together (**Rulebook**)
 - Working with industry to develop new sub-assemblies and components that are interoperable, scalable and meet the new standards, “registering” them to assure they meet regulations etc. (**Kit of Parts**)
 - Enabling design tools to be developed that can create full buildings out of the platforms, sub-assemblies that comply with the Rulebook – and demonstrate they meet the Value, Digital and Assurance requirements. (**Configurator**)

Summary

All four strands of our technical programme are:

- **Interlinked**; supporting wider TCC objectives
- Cut across our teams in **BRE**, **CDBB** and **MTC**
- Require ongoing **input** from both **government** and **industry**

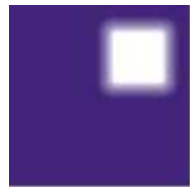


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