Industry consultation on BOS Manifesto

18 July 2024

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Digital Kit of Parts Framework

Department for Levelling Up, Housing & Communities

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Industrialised Construction

1. Influence & Inform
2. Lobby Government
3. Inform Decision Making
4. Challenge Perceptions
5. Address Barriers ────────→ Agreeing a common language and facilitating more flexible procurement
6. Build Insight & Knowledge ──→ Informing designers to develop proposals that align with offsite industry capability
7. Demonstrate Evidence

Common Language

Aligning industry with a defined language and terminology can:

- Simplify procurement by providing greater clarity between alternative solutions,

- Start to facilitate interchangeability of solutions,

- Reduce potential for error and ambiguity,
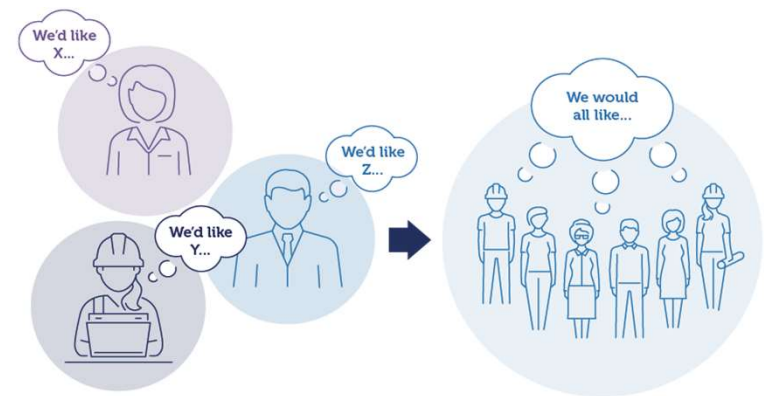
- Allow conversations around standardisation

Consistently referencing and structuring data also opens doors for the development of digital tools and associated innovation

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Informing the Designer

Can we inform designers to develop proposals that align with wider industry capability, not just relying on one supplier's information or the team's experience?

- If we want designers to work within a defined set of constraints to ensure offsite delivery remains feasible, we need to provide this information,

- The industry needs to make it easier for designers to adopt DfMA,

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Digital Kit of Parts Framework

Project Brief:

- **1 Year research project** (extended due to delayed start)

- Focussing on MMC **Category 2** and **Category 5**

- Research **barriers** to using MMC and how these could be addressed

- Develop a "**digital kit of parts**" for low-rise housing

- Encourage **Standardisation** and use of MMC within low-rise housing construction

Not covered: Above 11 metres, non-residential use, buildings over 3 storeys, buildings incorporating lifts, buildings with centralised MEP systems

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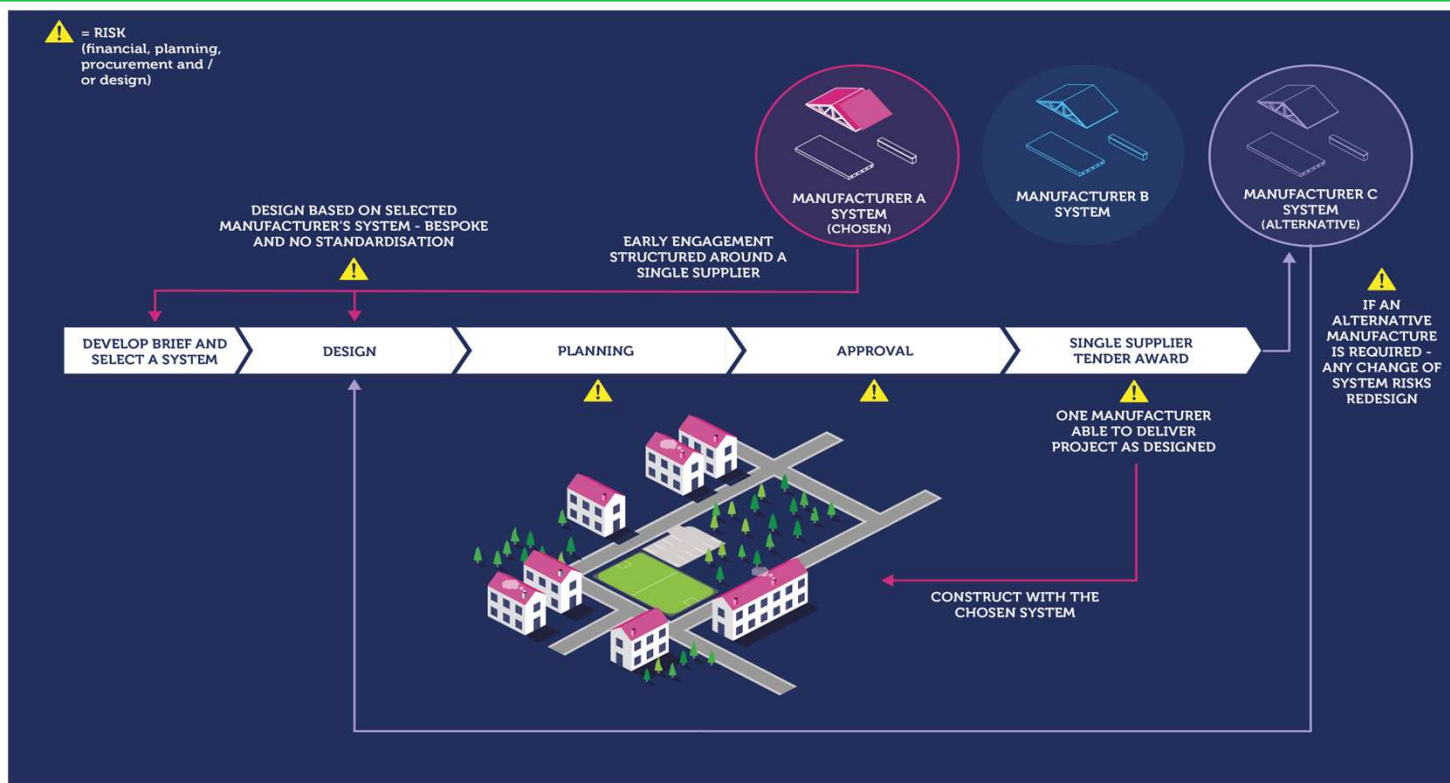COLLABORATING FOR IMPACT

Driven by Industry Engagement

300+ industry stakeholders engaged through workshops and events during the project
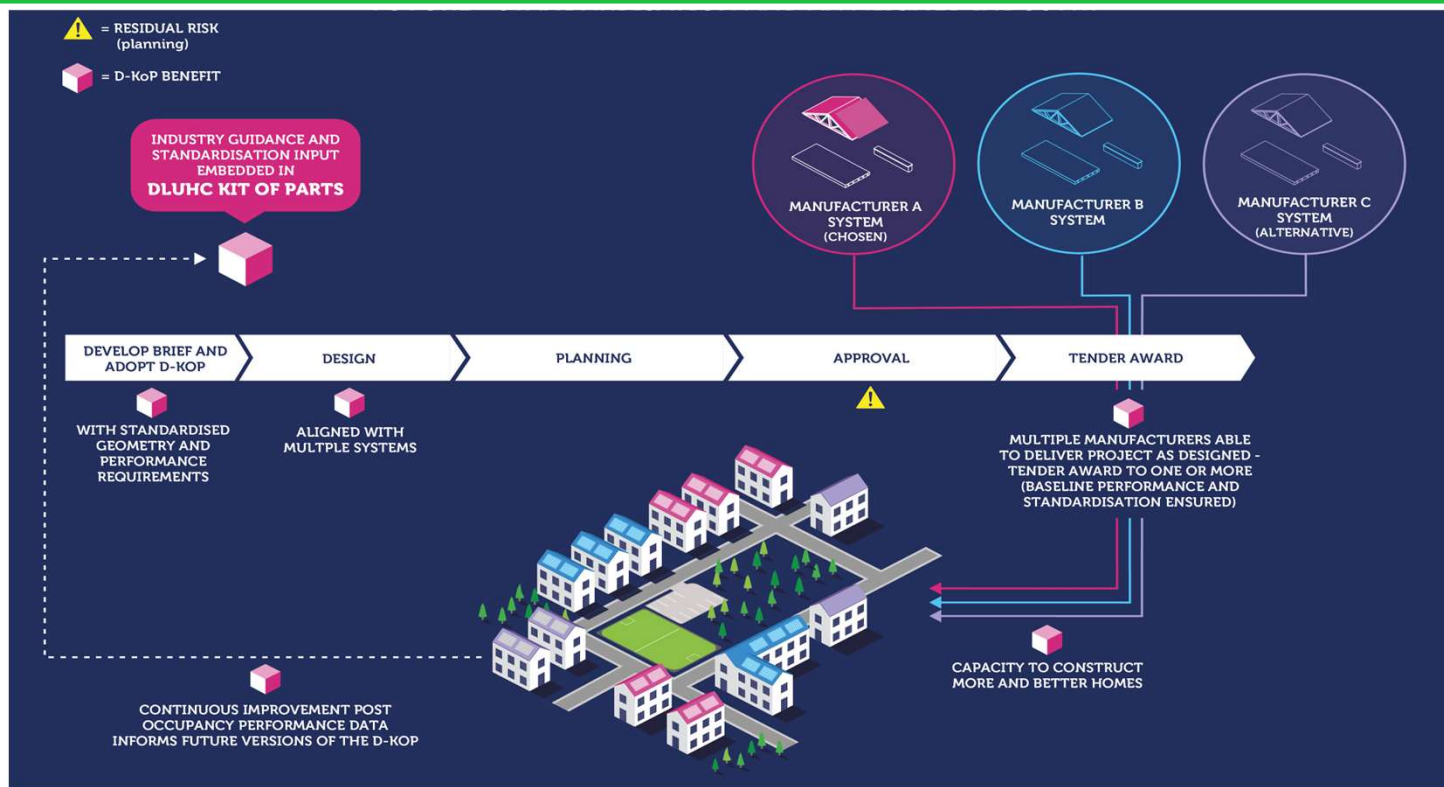
Consisting of:

- Clients and contractors

- Housing providers

- Designers

- Manufacturers

- Regulators, Warranty, Assurance and Insurance providers

- Government, Policy Makers and Planning

Changing Workflows and Removing Procurement Barriers
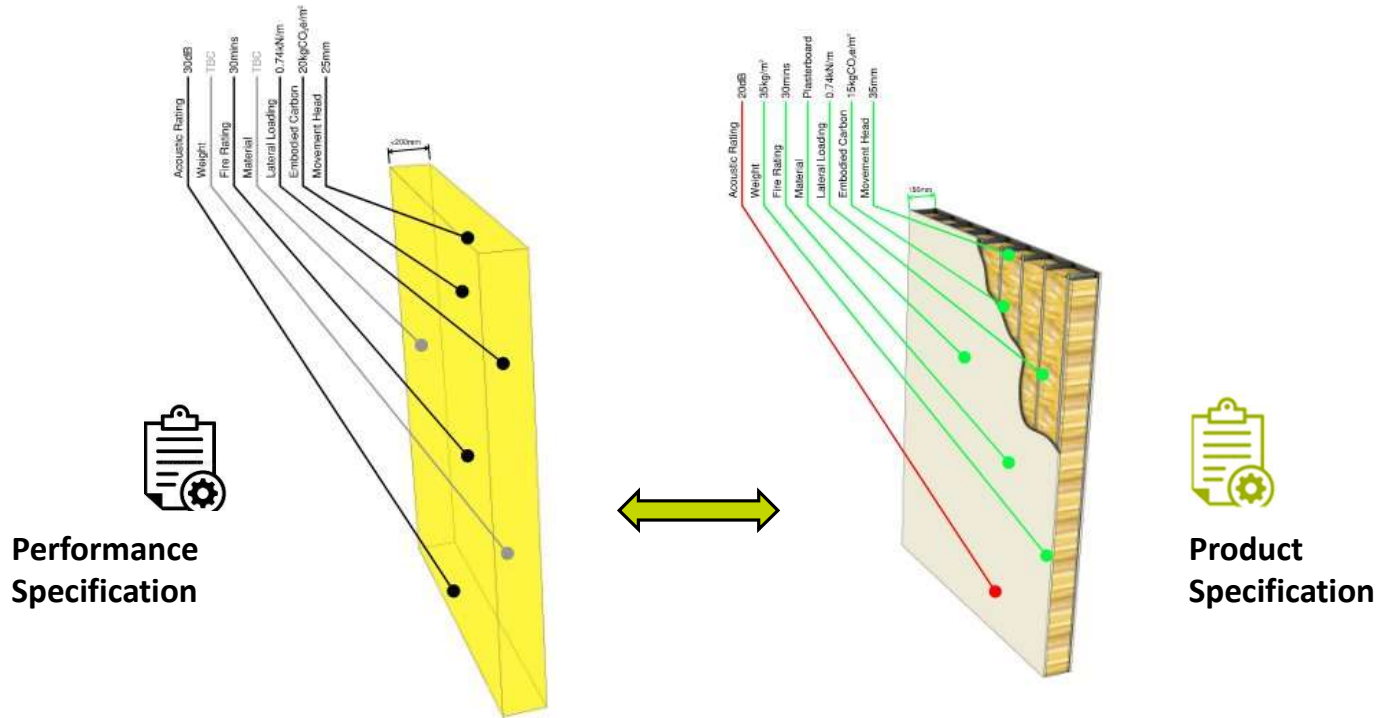
Changing Workflows and Removing Procurement Barriers
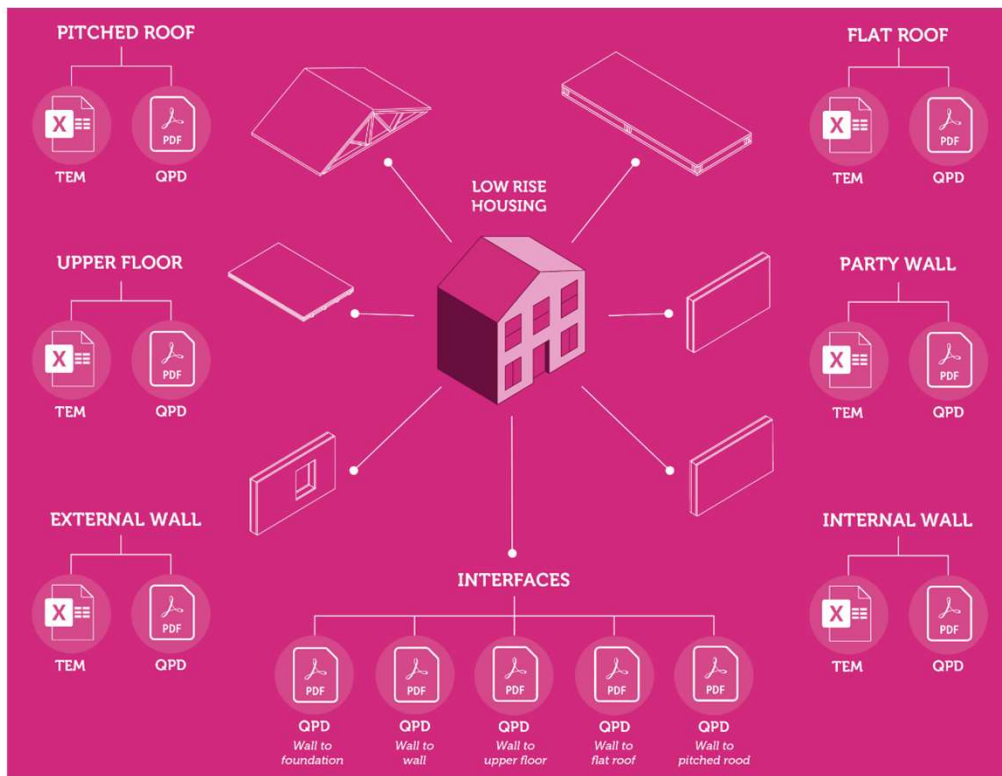
Digital Kit of Parts Framework

The d-KoP provides a consistent framework for generating performance specifications for MMC components in the construction of low-rise housing

CLIENT AND DESIGNERS

- Clear design and performance specifications using common language
- Consistent referencing and open format for data design
- Designs to suit MMC delivery, within standardised set of constraints

FASTER, GREENER, BETTER HOMES

MMC SUPPLY CHAIN

- Proposed solutions that meet design performance requirements
- Consistent certification / testing and product data to demonstrate compliance
- Multiple manufacturers can deliver

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Digital Kit of Parts Framework

Performance Specification

Product Specification

A Kit of Digital Assets

Specification Data Template

Quality & Principles Document

Why Data Templates?

Digital Interoperability

"The ability to exchange and use information securely, ensuring that information is independent of the technologies used to deliver it"

[Government and Industry Interoperability Group (GIIG)]

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The future of d-KoP?

Following completion of research project brief:

- Release project Final Report

- Develop clear language and messaging
- Engagement of suitable authority/organisation to take ownership of the d-KoP
- Develop strategies for implementation, deployment & management
- Pilot projects, testing and refinement
- Collaboration with developers of digital tools

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The future of d-KoP?

What do you want to see as the future?

We want to welcome ongoing input from industry and future partners to:

- Help take this forward and realise the concept
- Steer this in a direction that will help the whole industry
- Deliver on its potential

Digital Kit of Parts Framework

Questions

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