

# CASE STUDY

## A DIGITAL KIT OF PARTS TO SCALE MMC IN LOW RISE HOUSING

### PROJECT OVERVIEW

Commissioned by the UK Government's Department for Levelling Up, Housing and Communities (DLUHC), Akerlof developed a digital kit of parts for low-rise housing. This initiative aimed to catalyse the adoption of MMC by enhancing component interchangeability and choice, addressing in part challenges associated with market uptake and scalability.



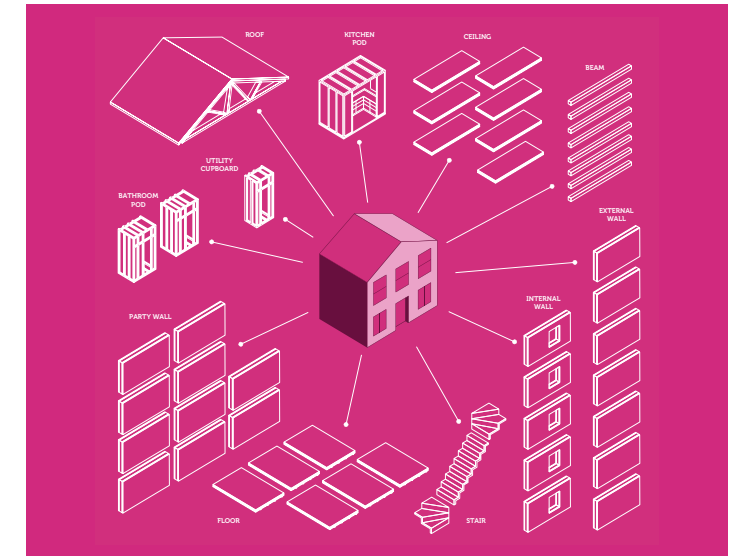
### WHAT WE DID

Over a 12-month period, Akerlof conducted in-depth market research and stakeholder engagement with over 300 industry experts to pinpoint key barriers to the sustainable growth of MMC within the UK housing sector. Collaborating closely with DLUHC, we developed targeted mitigation strategies at a policy, programmatic and organisation level.

Our work included evaluating over 600 construction products, to identify standardisation opportunities within MMC Category 2 (2D structural) systems and Category 5 (non-structural) assemblies. Informed by detailed market analysis and stakeholder feedback, we curated a digital kit of parts, comprising of pre-manufactured components. We also developed standardised data structures and templates to maintain a common language and interoperability throughout.

### THE IMPACT

- Key barriers and challenges within the MMC housing market identified
- Furthered the collective research and understanding of 'platform' (standard, repeatable) principles in cultivating a more mature, stable market
- Translated the DLUHC's policy ambitions into practice to market uptake of MMC technologies
- Showcased a proof-of-concept digital kit of parts, demonstrating the advantages of digitisation, open-access collaboration and industry standardisation, instrumental in fostering a more sustainable, productive and profitable industry
- Facilitated collaboration with over 300 industry experts across an otherwise fragmented stakeholder landscape - including connecting current industry research initiatives to encourage knowledge sharing across the sector



Read the press release: [MMC Standardisation and Kit of Parts](#)

Our July update includes our [Stakeholder engagement findings](#) which have helped to shape our digital kit of parts

### GET IN TOUCH

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