

An introduction to: Industrialised Construction

Given increasing skills shortages, stalled productivity, and the need to drive better social and environmental outcomes, there is an urgent need to rethink our approach to construction.

The traditional construction delivery model is underpinned by constant reinvention; both in *what* we deliver and *how* we deliver it. This erodes efficiency, decreases predictability, and prevents continuous improvement in both project and asset performance.

This approach also underpins our continued reliance on craft-skills, operating in uncontrolled environments and prevents meaningful uptake of more productive, manufacturing-led processes and technologies.

By contrast, Industrialised Construction approaches are centred around standard systems and processes that can be repeatedly deployed across many projects through stable relationships.

By embracing this 'production mindset', we can transform the construction sector from one primarily based on manual labour and craftsmanship to one characterised by standardised processes, mechanised production and advanced technology.

Standard Technical Systems

Industrialised Construction approaches are often centred around the development of standard, modular kits-of-parts that can be produced at scale and configured to suit the needs of a given project.

These kits-of-parts are underpinned by a set of rationalised design rules and parameters that reflect the range of projects they intend to serve.

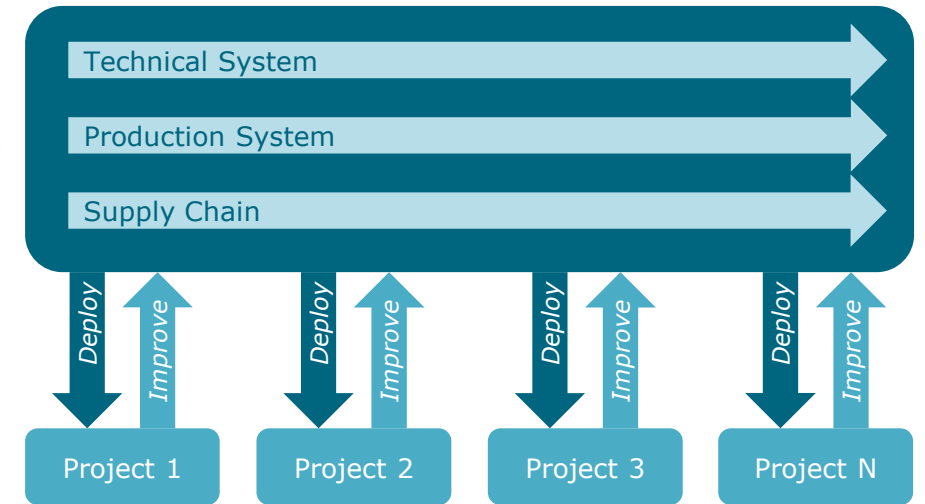


Standard Repeatable Processes

The adoption of rationalised design rules and standard technical systems allows the development of repeatable production processes. Components and sub-assemblies can be efficiently produced at scale in controlled manufacturing environments, configured to suit project requirements and quickly assembled on site.



As Industrialised Construction approaches mature, process standardisation and automation are extending to costing, procurement, logistics, maintenance and beyond.



Stable Relationships

The adoption of standard technical systems and repeatable processes across many projects encourages long-term, collaborative supply chain relationships and robust feedback loops. This approach unlocks the benefits of learning through repetition while providing stable employment opportunities and ongoing skills development.

The shift from flexible site working and craft skills to stable employment and controlled processes also broadens the available labour pool, with the potential to significantly improve workforce diversity and inclusion.

