



NUA

A Glenveagh Company

MANUFACTURING-LED HOUSING: EFFICIENCY, CONSISTENCY, AND SCALABILITY IN RESIDENTIAL CONSTRUCTION

An insight for MMC Leaders



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February 2026



- Why Nua
- Standardisation
- PMV
- Scalability
- The future

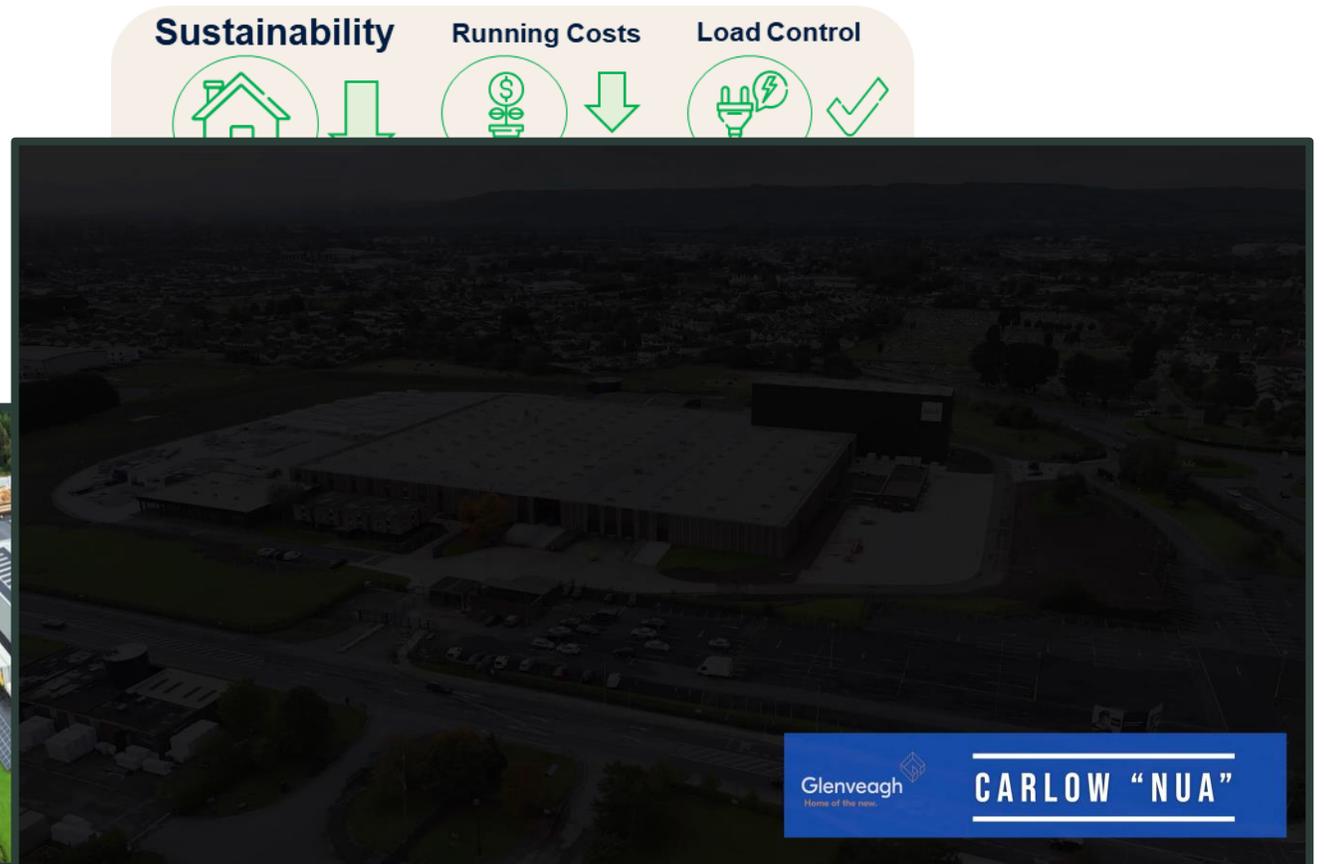
WHY NUA?

Nua Manufacturing – built for certainty and scale

Ireland's leading Industrialised construction platform

Why did we invest ?

- Vertical Integration
- Viability & Affordability
- Guarantee long-term supply: align with growth targets
- Implement ongoing Innovation & R&D
- Sustainability and reduced Environmental Impact



STANDARDISATION

Automotive-inspired lean production principles

Ford Global C Platform (Volvo/Mazda/Ford)

- 60% shared components
- 30% faster build times



Standardisation

It all starts with good design and planning - Collaboration

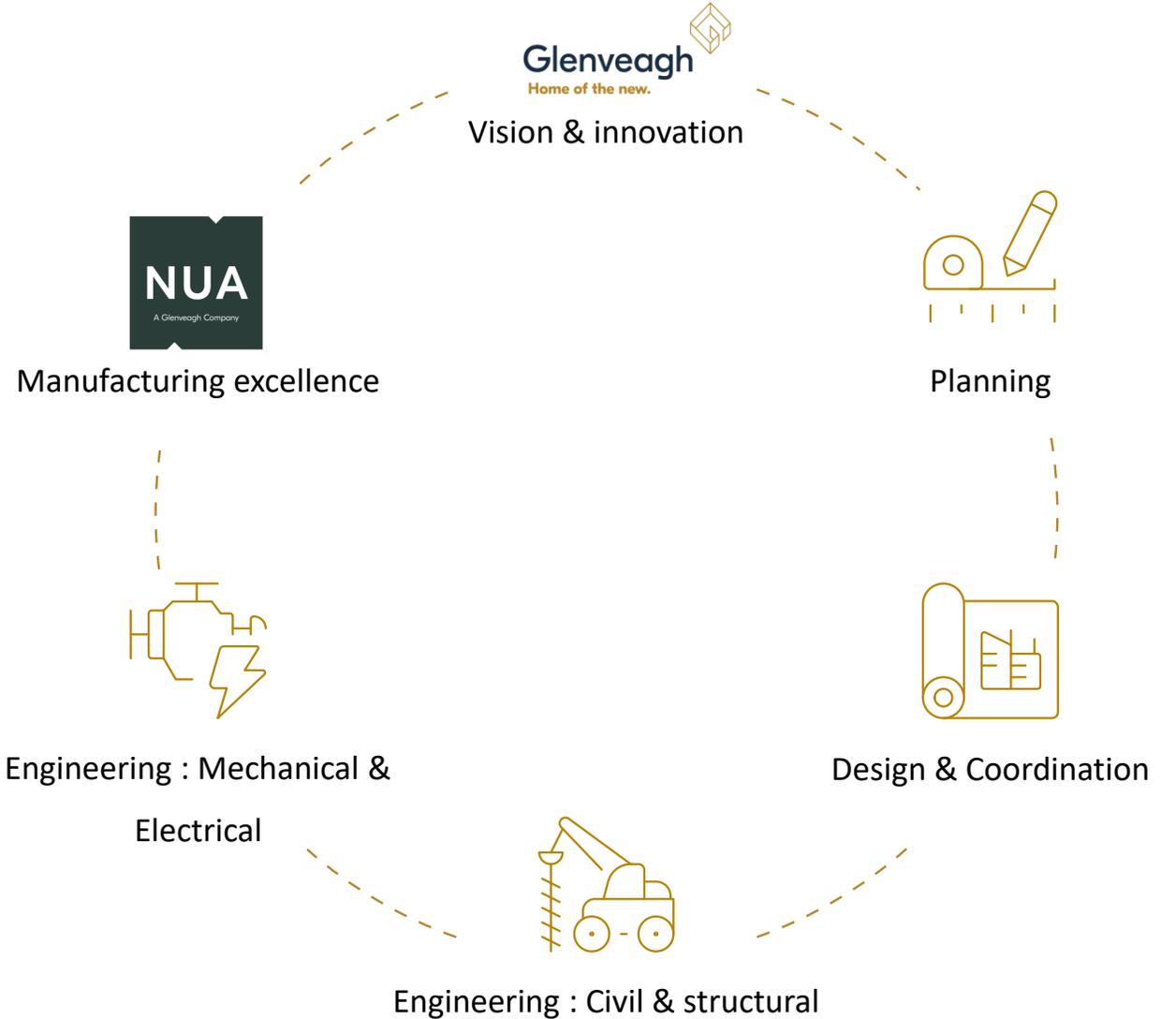
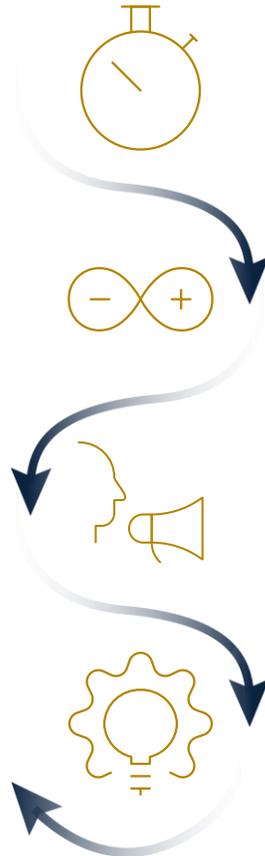
The key to standardisation and increased PMV

➤ Efficient development

➤ Optimal detail

➤ Clear communication

➤ Continuous improvement

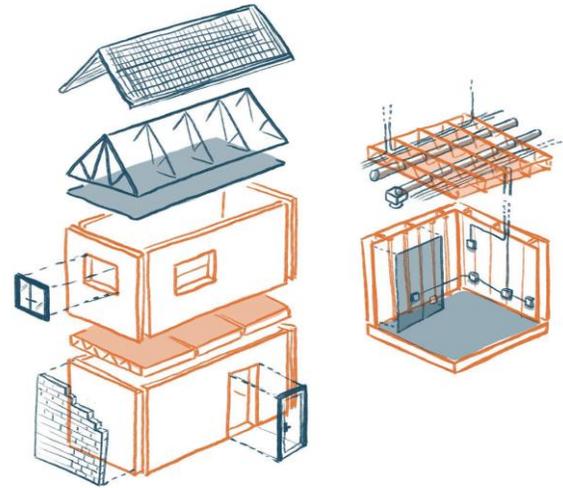


Our Journey to Higher PMV

OFF-SITE
ON-SITE

Current State

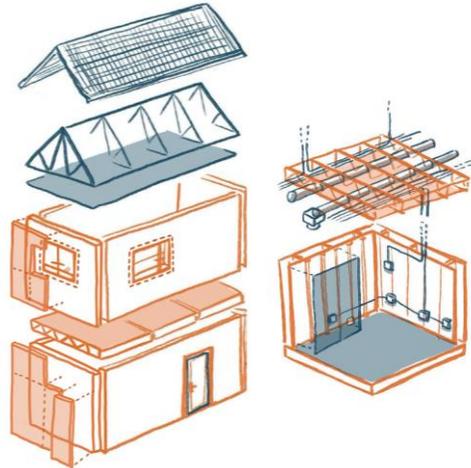
Phase 1 - 45%
Estimated PMV Score



- Standard Driven by IS440
- Irelands semi closed Panel System
- Factory Fitted Plasterboard to PW
- Floor Cassettes

Transition A

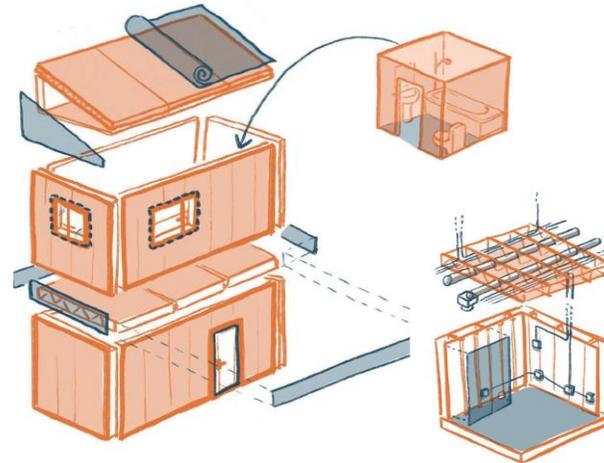
Phase 2 - 55 %
Estimated PMV Score



- Substitute traditional heavy cladding with Factory-fitted facades
- Factory Fitted Windows

Transition B

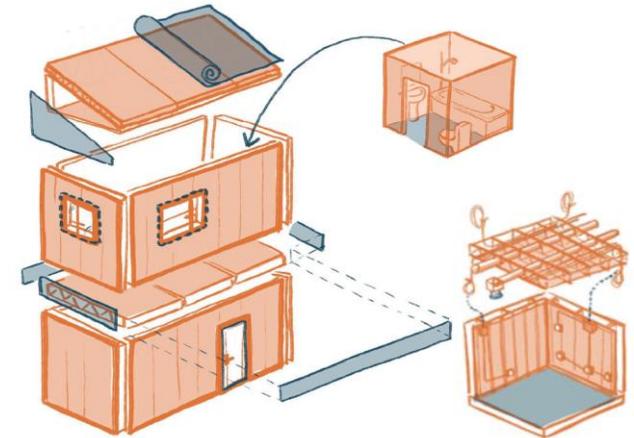
Phase 3 - 65%
Estimated PMV Score



- Low-pitch pre-manufactured roof.
- sub-assemblies/pods.

Future State

Phase 4 - 75% +
Estimated PMV Score

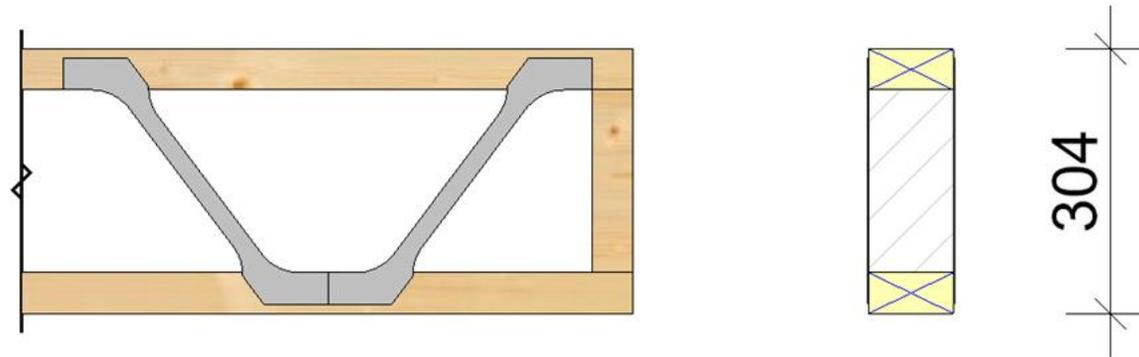


- Pre-wired walls.
- Pre-serviced cassette.
- Rapid Foundation solutions

SCALABILITY

Through DfMA – Keep it simple, repetitive and quick.

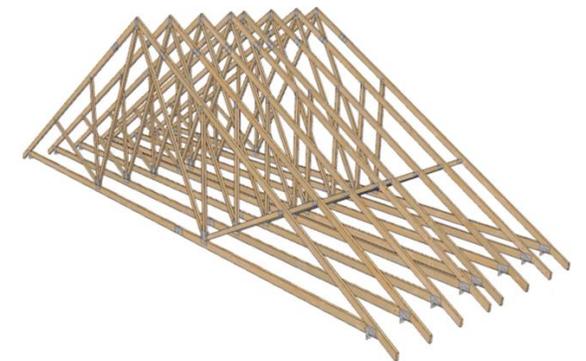
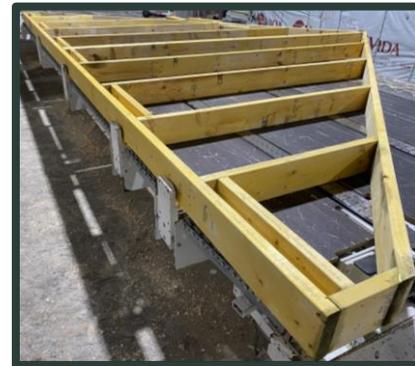
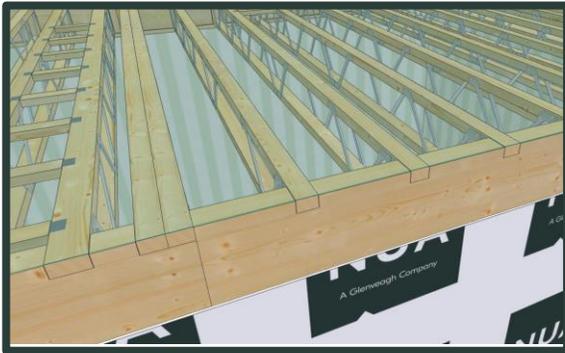
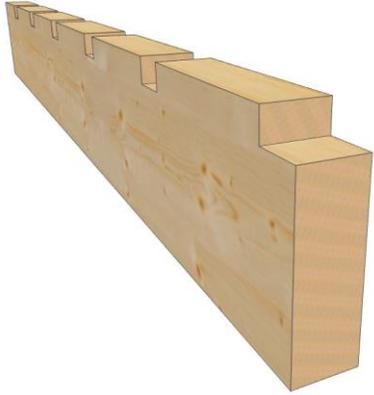
Standardised wall and floor heights – no secondary processing of raw materials to resize them



SCALABILITY

DfMA – Keep it simple, repetitive and quick.

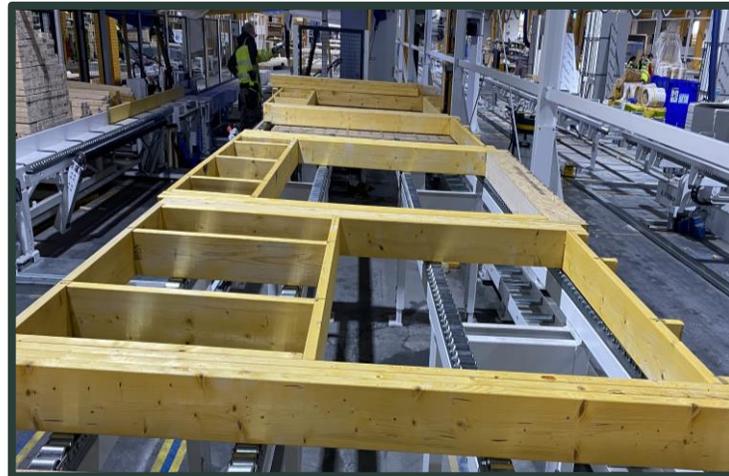
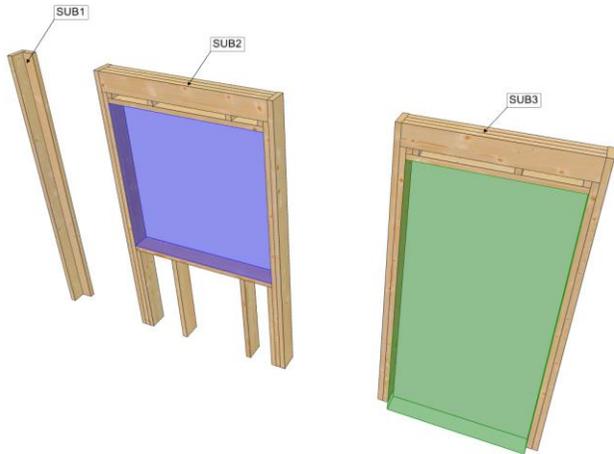
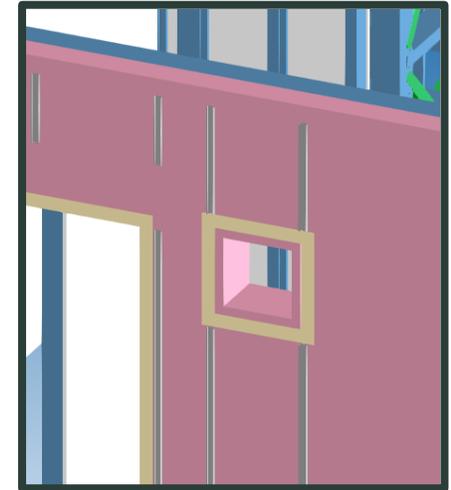
Simple, effective, quick - In the factory and on site – creating reference points to deskill tasks



SCALABILITY

DfMA – Keep it simple, repetitive and quick.

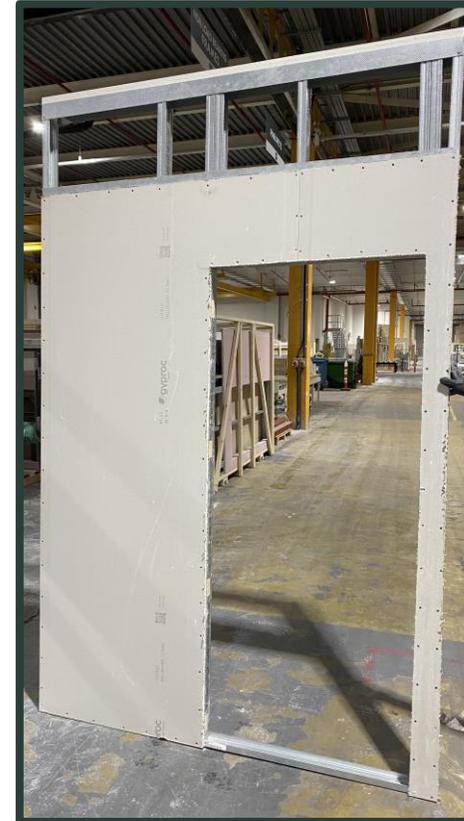
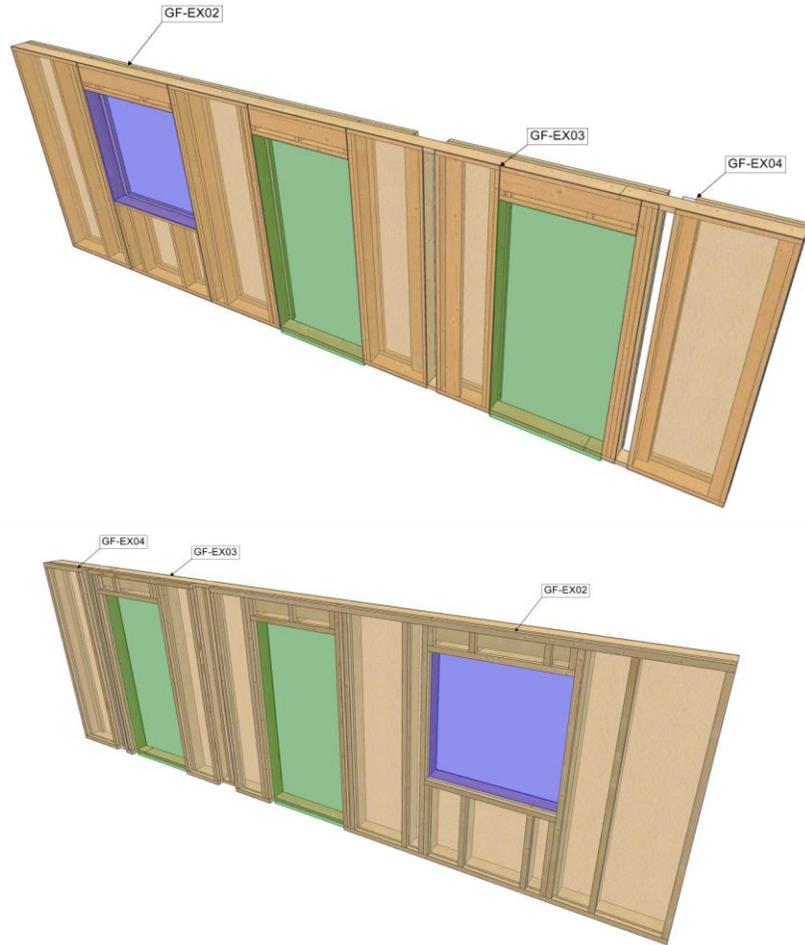
Subassemblies – do more offline



SCALABILITY

DfMA – Keep it simple, repetitive and quick.

Panelisation in the factory and install on site – speeding up the process



THE FUTURE

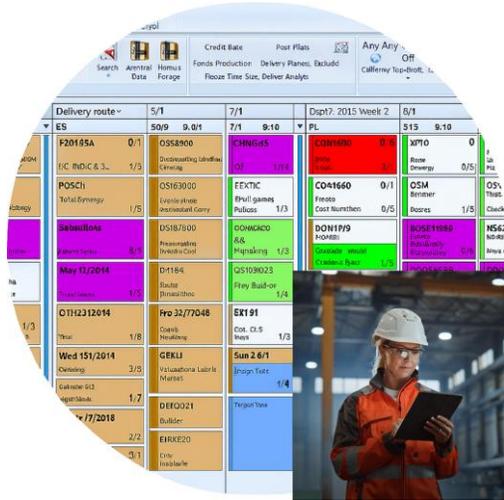
Connected, intelligent manufacturing – Plan, Do, Check, Act

The digital factory loop – pulling it all together



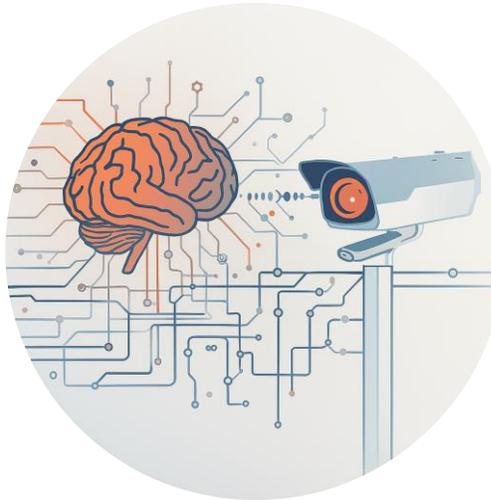
DESIGN SOFTWARE

Produces **production-ready outputs** with smart structural designs.



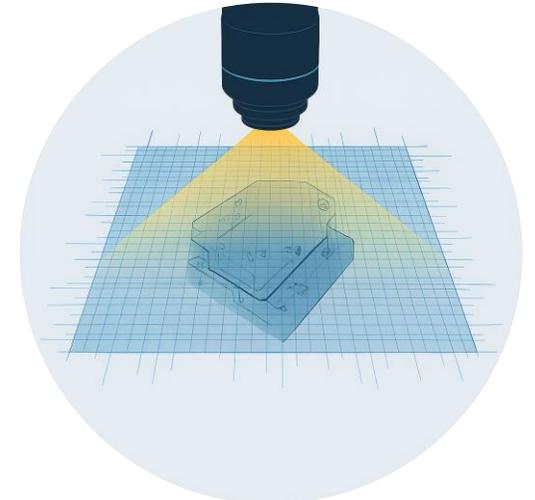
AUTOMATED SCHEDULING

Monitors **production status** and detects potential bottlenecks.



AI + COMPUTER VISION

In-process **quality control** checks ensure product conformity.



SCANNING + LASER PROJECTION

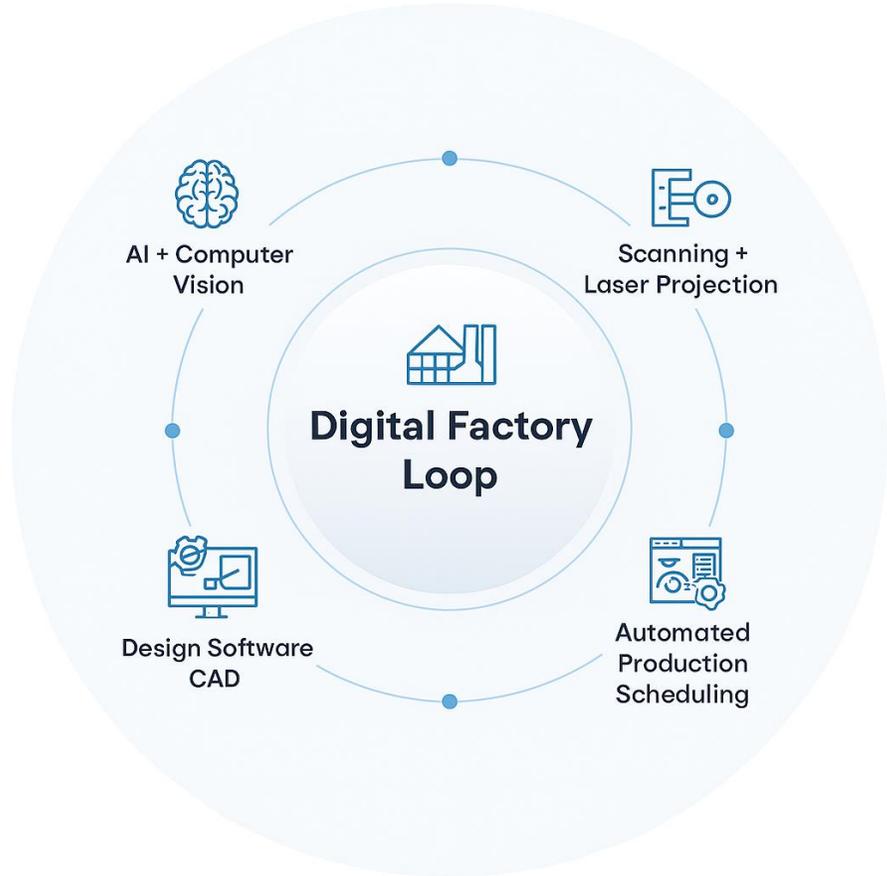
Real-time validation for precision manufacturing processes.

THE FUTURE

Connected, intelligent manufacturing – Plan, Do, Check, Act

Greater than the sum of its parts

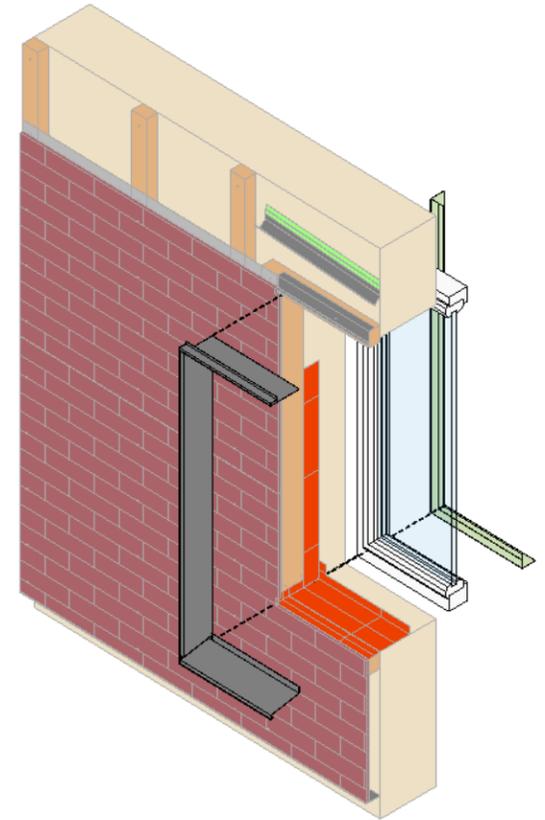
Inputs



Outputs

- Meaningful Data
- Efficiency gains
- Higher throughput
- Continuous improvement

Result - Increased PMV & Scalability



THE FUTURE

Realising the PMV Journey to deliver houses at Scale

How it all comes together



Innovative Build Method - Construction timeframe

