SKANSKA

ModernaHus

29 September 2010

SKANSKA

Skanska in short

- Founded 1887 in Sweden
- Presence in Nordics (Sweden, Norway, Finland), Central Europe (Poland, Slovakia, Czech Republic, Hungary), USA, Latin America and UK
- 2009 revenue £12Bn globally, £1.5Bn in the UK
- 53,000 employees globally, 5,000 in the UK
- Greenest construction company in the UK (Sunday Times)
- Wide range of activities in the UK – Building, Civils, Utilities
- Residential in the UK just starting

Modern Methods of Construction (MMC)

We have been actively involved in MMC thinking for a number of years:

- **Building Information Modelling (BIM)**
  - 12 areas
- **Offsite fabrication**
  - precast concrete, M&E assemblies, cladding, bridges and gantries, steel decking
- **Logistics management**
  - consolidation centres, city centre construction
- **Modular construction**
  - prisons, gantries, M&E assemblies, residential
- **Fabrication facilities**
  - Doncaster and Slough

1. Context
2. The platform
3. Key challenges
4. Approach
5. Vision

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Context

- Residential
- The Nordic countries
- Programme, quality, sustainability
- Skanska Communities
- ModernaHus (M2)
- Low Rise (S1)

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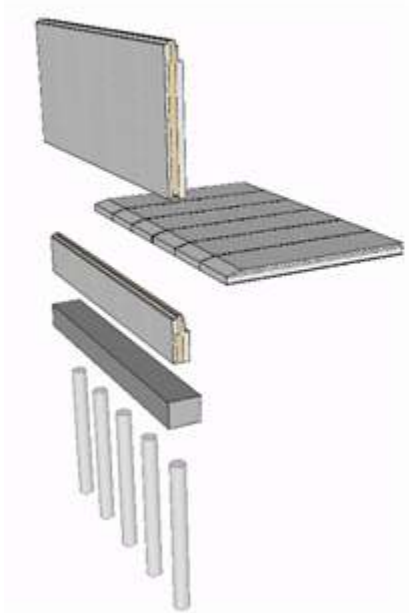
Construction spectrum

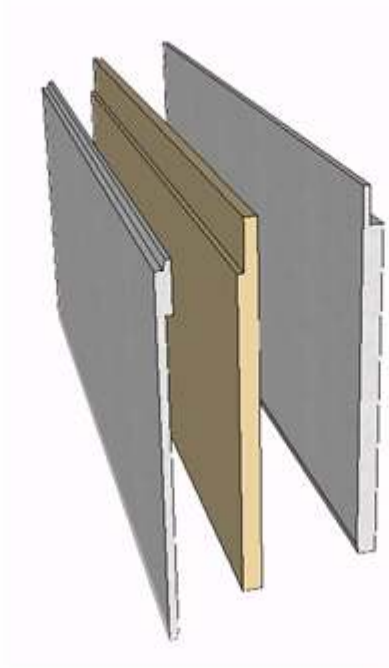
Our aspiration

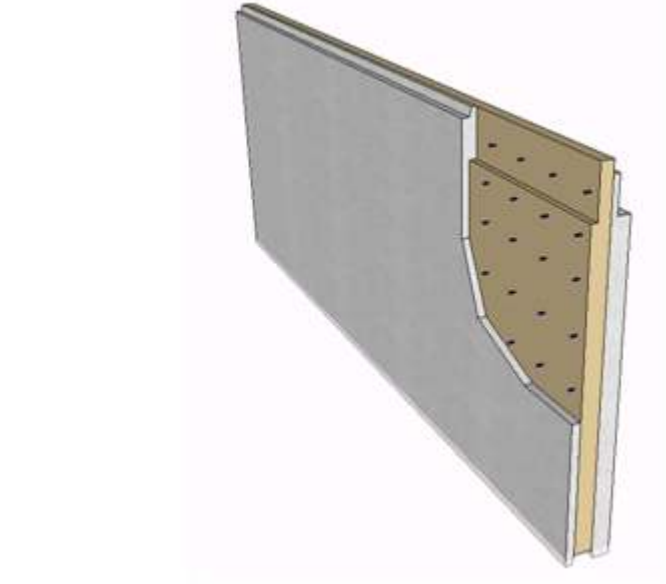
Traditional | Components | Elements | Product

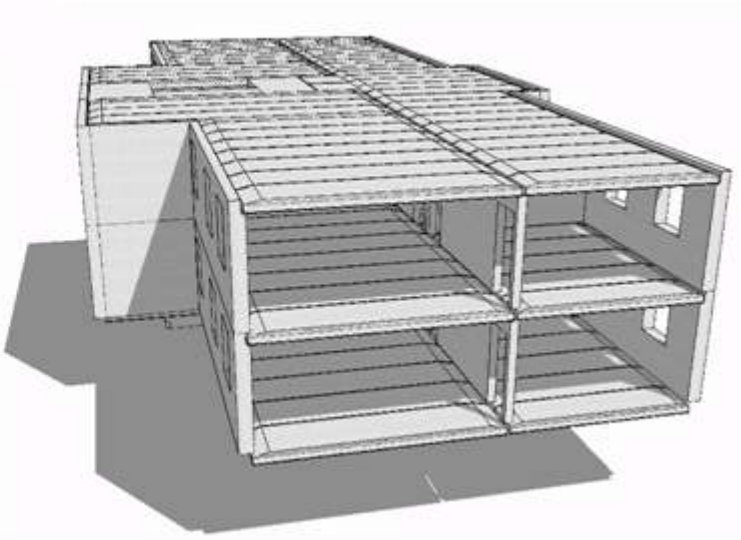
Key drivers

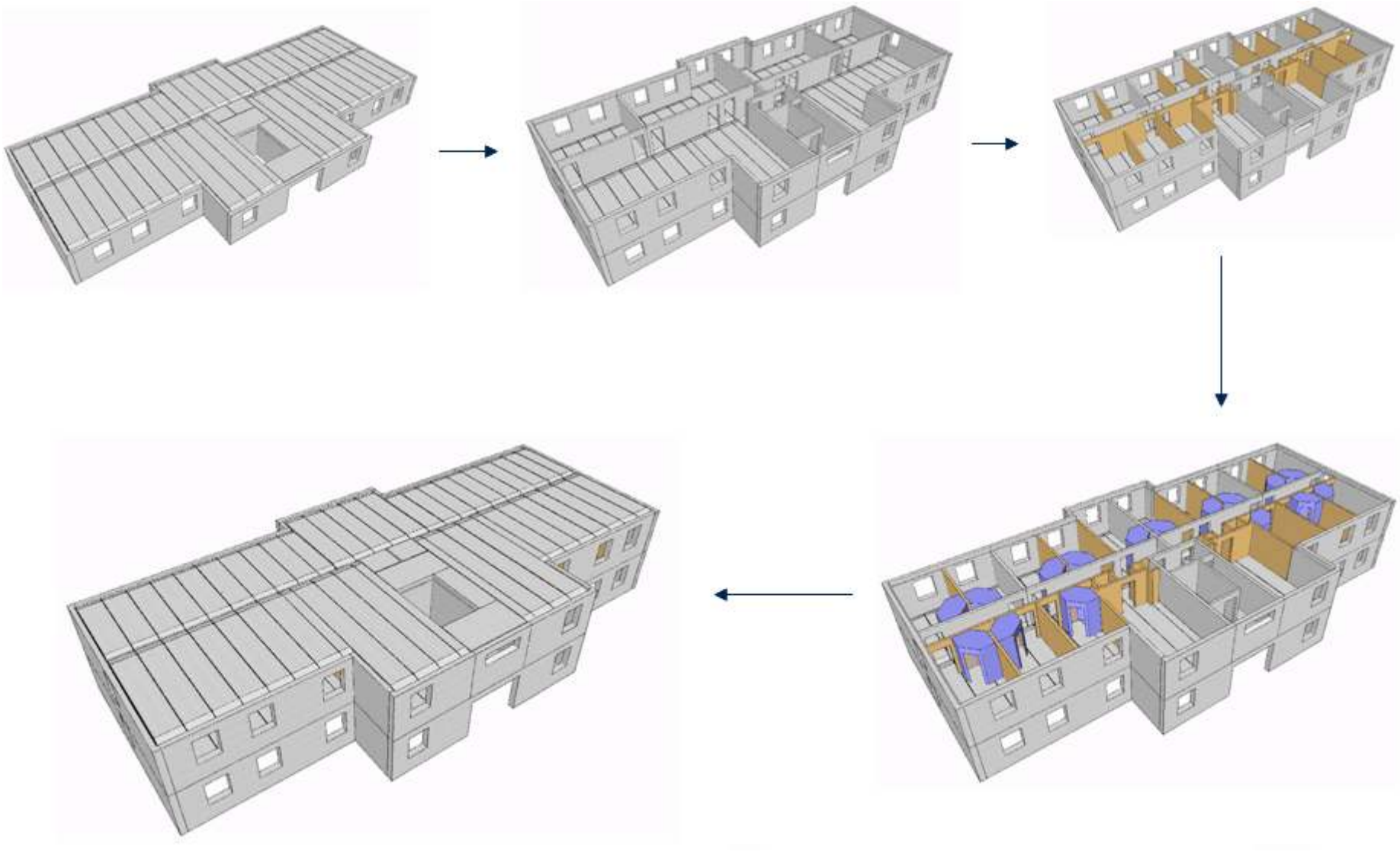
- Cost
- Programme
- Quality
- Health & Safety
- Sustainability



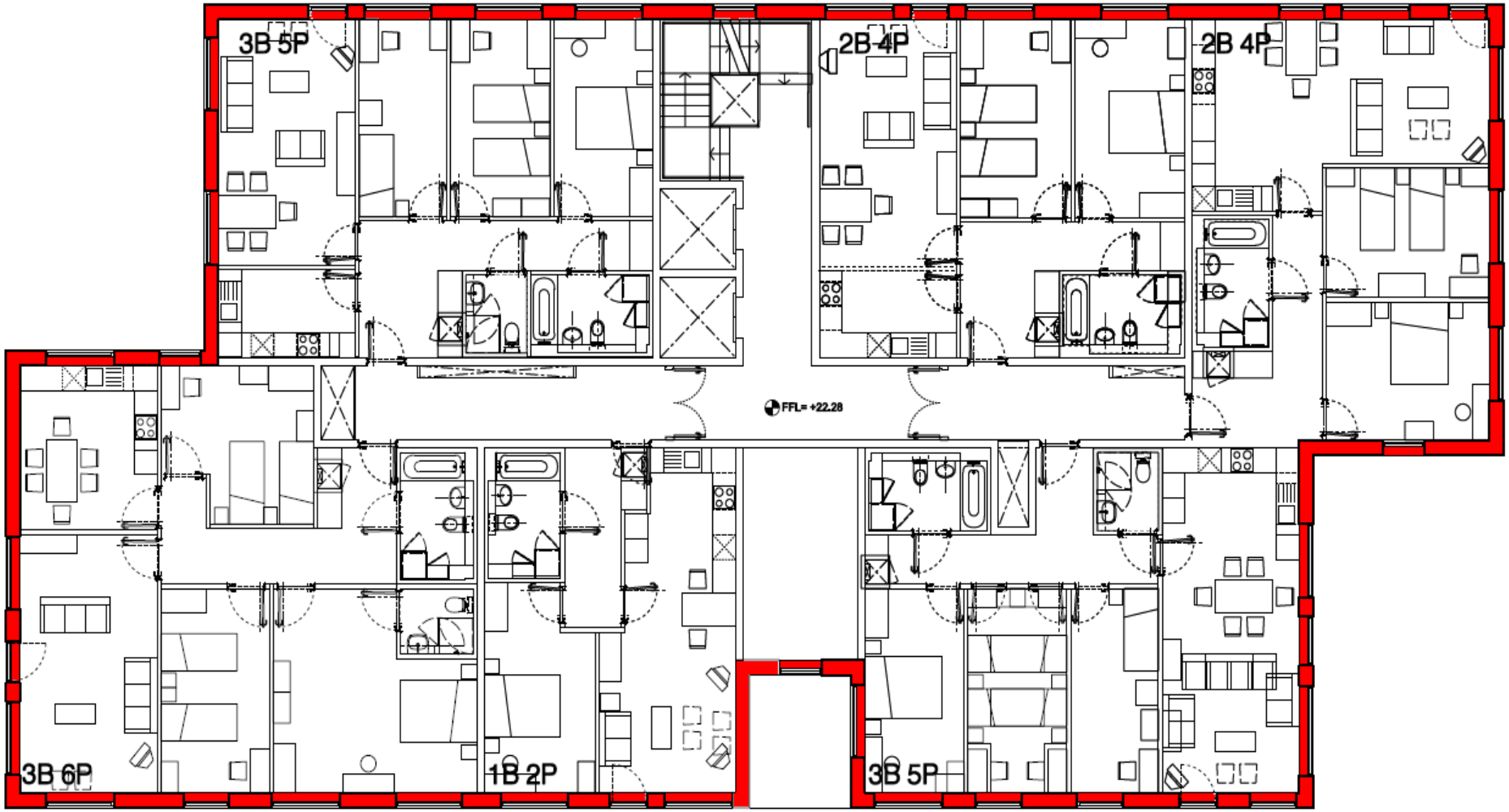




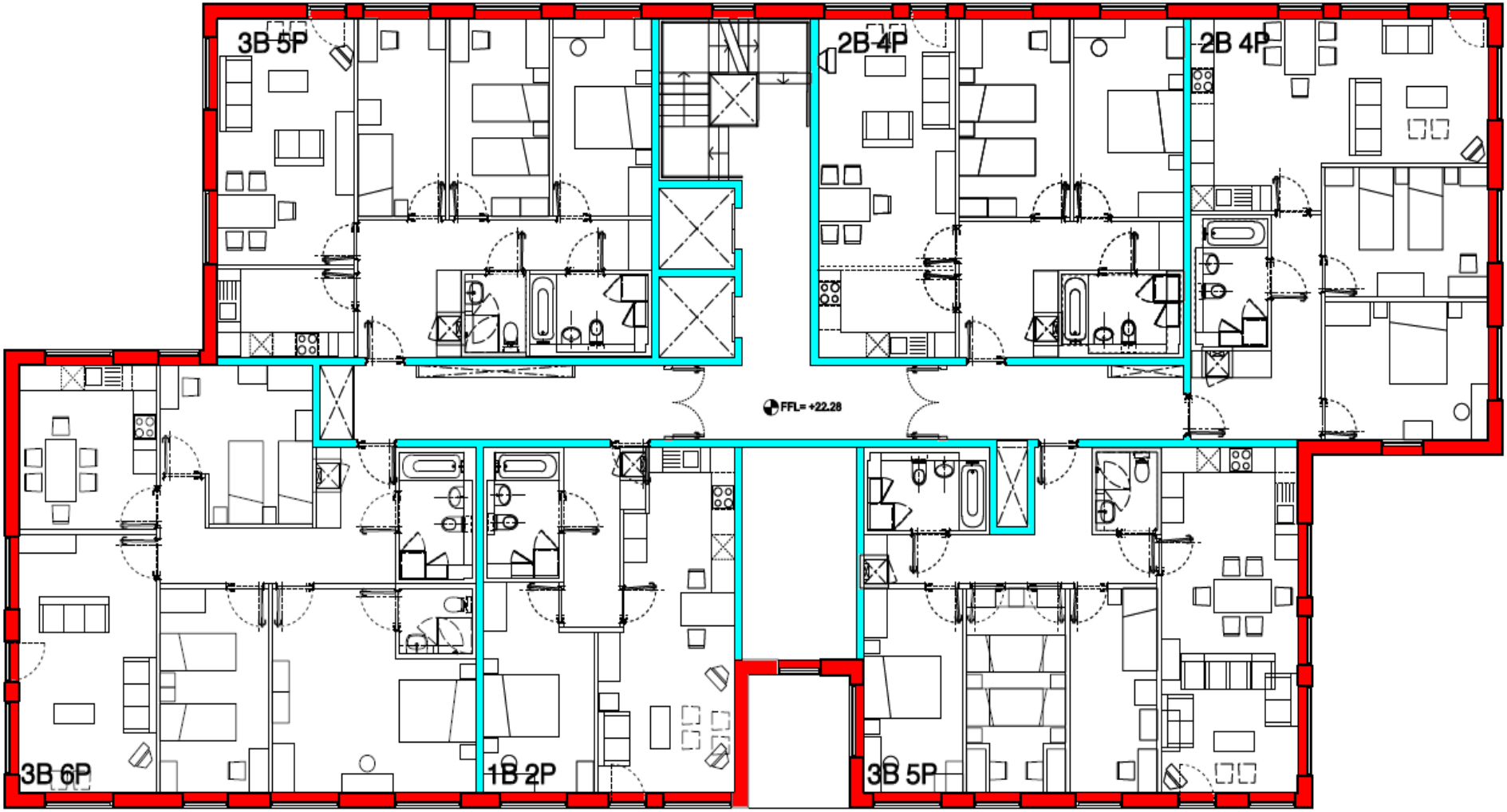




External Walls: 17 Panels



Internal Walls: 19 Panels

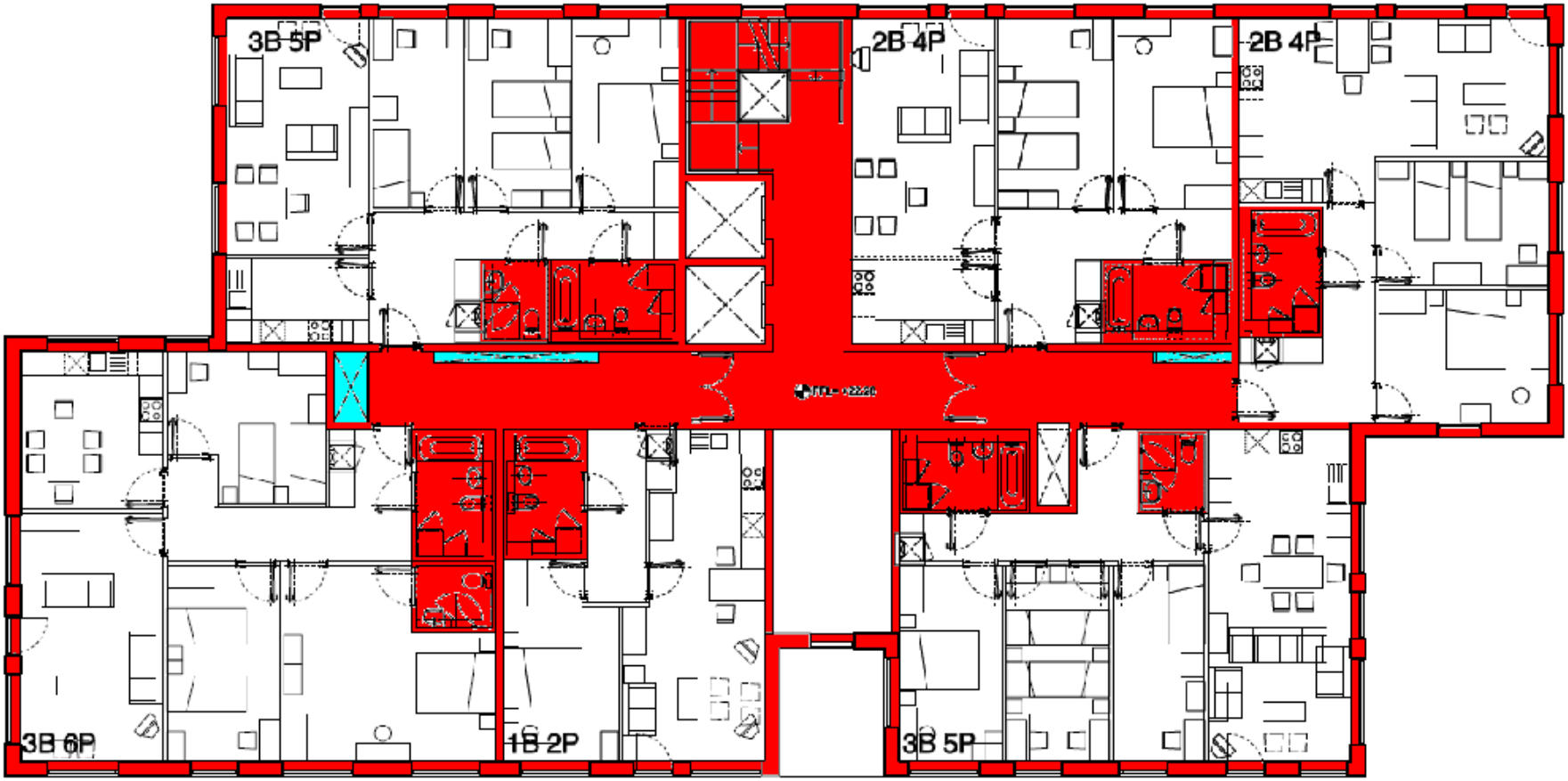


Prefabricated pods: 9 pods

Stairs & precast slabs: 10 pieces

Hollowcore: 56 panels

Prefabricated risers: 3 no.



1.5 Days

1 Day

1/2 Day

1/2 Day

2 Days

1/2 Day

6 Days Per Floor

FOOD ★ WINE
SAVOY

Same Platform, different buildings

Flexibility and Standardisation at the same time

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Challenges

to MMC

- Technology
- Regulations and guidelines
- Culture and behaviour
- Example, prefabricated bathroom pod v traditional

Programme	+
Quality	+
H&S	+
Sustainability	+
Cost	-

Coordination	"All need to be managed to get the benefit"
Management	
Procurement & logistics	
Design	
Risk	

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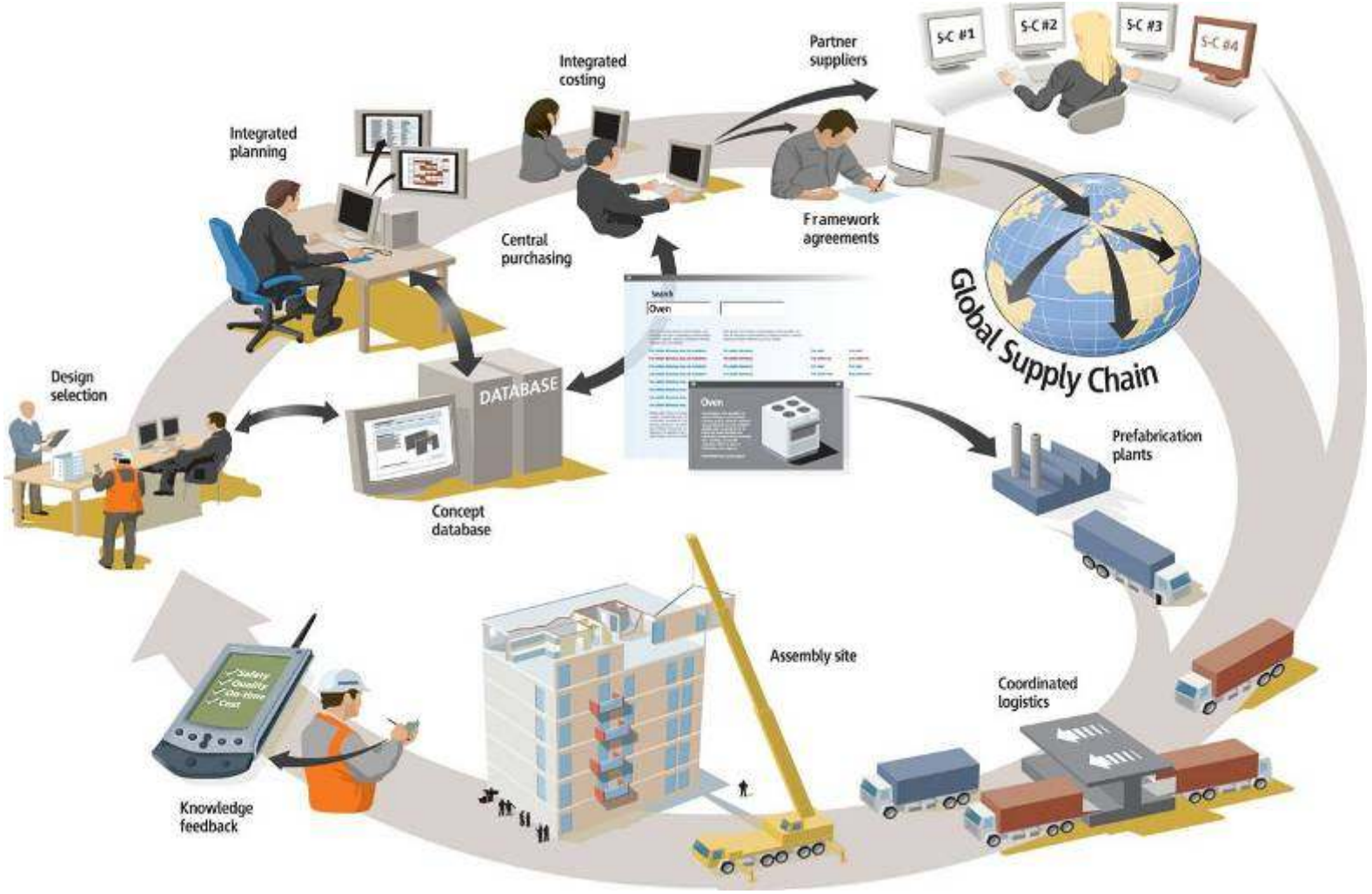
Approach

to MMC

- Design manual
- Building information Modelling (BIM)
- Supply chain
- Culture and behaviour
- Client

The difference that makes difference

It is all in the process



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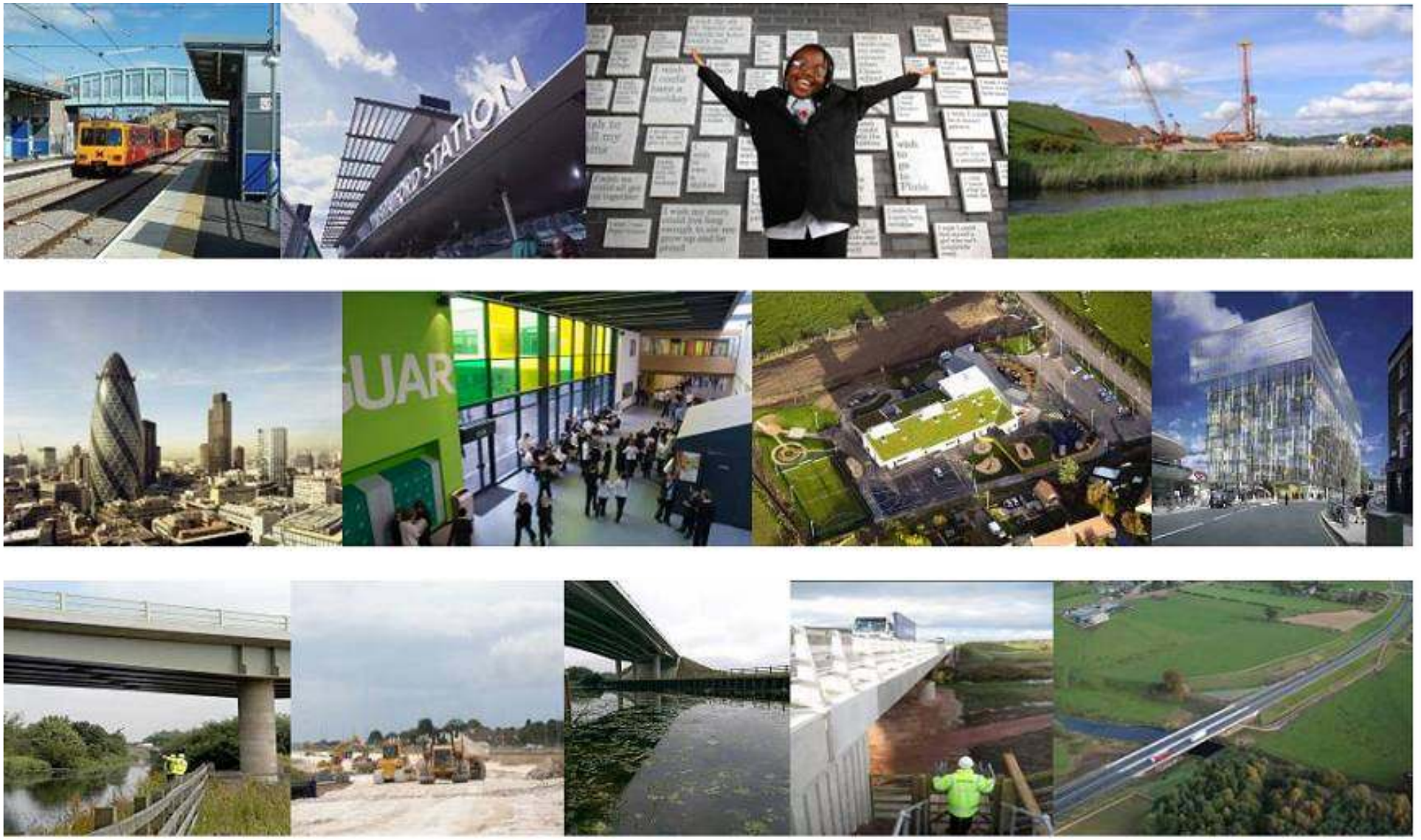
Vision

- Sustainability
- Health & Safety
- Quality
- Programme
- Cost