

Gathering23

Accelerating BIM adoption

cpac[®]
Modular

CITA

DIGITAL MODULAR CONSTRUCTION



MARK WHITEHEAD
Construction Director

- 20 years in the Construction Industry.
- Originally UK based and Irish based for 8 years.
- Always pushing innovation and the possibilities of Modular Construction.
- Passionate about showcasing Modular Construction.
- I am not an expert in BIM but I see the huge benefits and possibilities.

- Over 40 years in business
- 103 Direct Employees
- Leading modular company in Ireland
- Full In House Design Team
- Lean production Facility able to produce 15 - 20 Modules a week
- Education, Healthcare and moving into Student Accommodation
- Investing heavily in System certification - NSAI, Fire, Acoustic
- On Our Journey to ISO 19650 Accreditation



OUR JOURNEY SO FAR...



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- **Speed**
- **Quality**
- **Controlled build environment**
- **Sustainability**
- **Reduced Waste**
- **Increased certainty of Program**
- **Greater comfort levels for end users**
- **Lower running costs**
- **Compliant and Tested Systems**

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- **14** MODULES
- **10** TREATMENT ROOMS
- **1** NURSES STATION
- **1** DRUG PREPERATION ROOM
- STORAGE AND WELFARE FACILITIES



- **24** MODULES
- **2** CLASSROOMS
- **1** ART ROOM
- **2** CLASSBASES
- CENTRAL ACTIVITIES AND LIFT



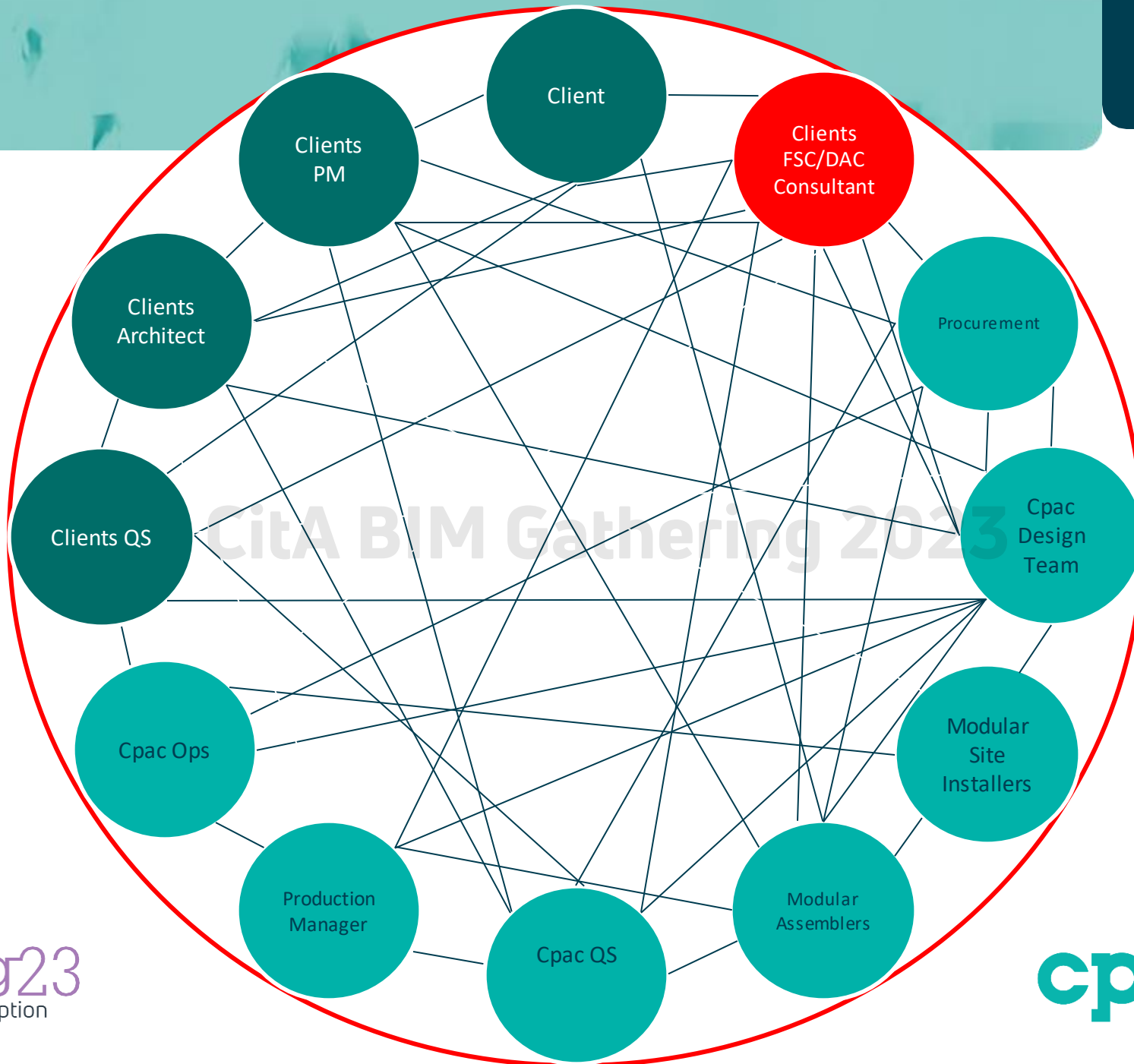
- **150** MODULES
- **16** CLASSROOMS
- **1** STAFF ROOM/OFFICES
- **8** CLASSBASES
- CENTRAL ACTIVITIES AND LIFT

- **On our journey to ISO 19650 accreditation**
- **Early engagement with all stakeholders**
- **Don't be afraid to ask questions - challenges are normal in this process**
- **Requires a new mindset and way of thinking**
- **Set out a vision**
- **The goals remain the same**
- **Used for sustainability and energy modelling - daylight, overheating etc**
- **One Click LCA (life cycle assessment) integration for calculation carbon footprint.**

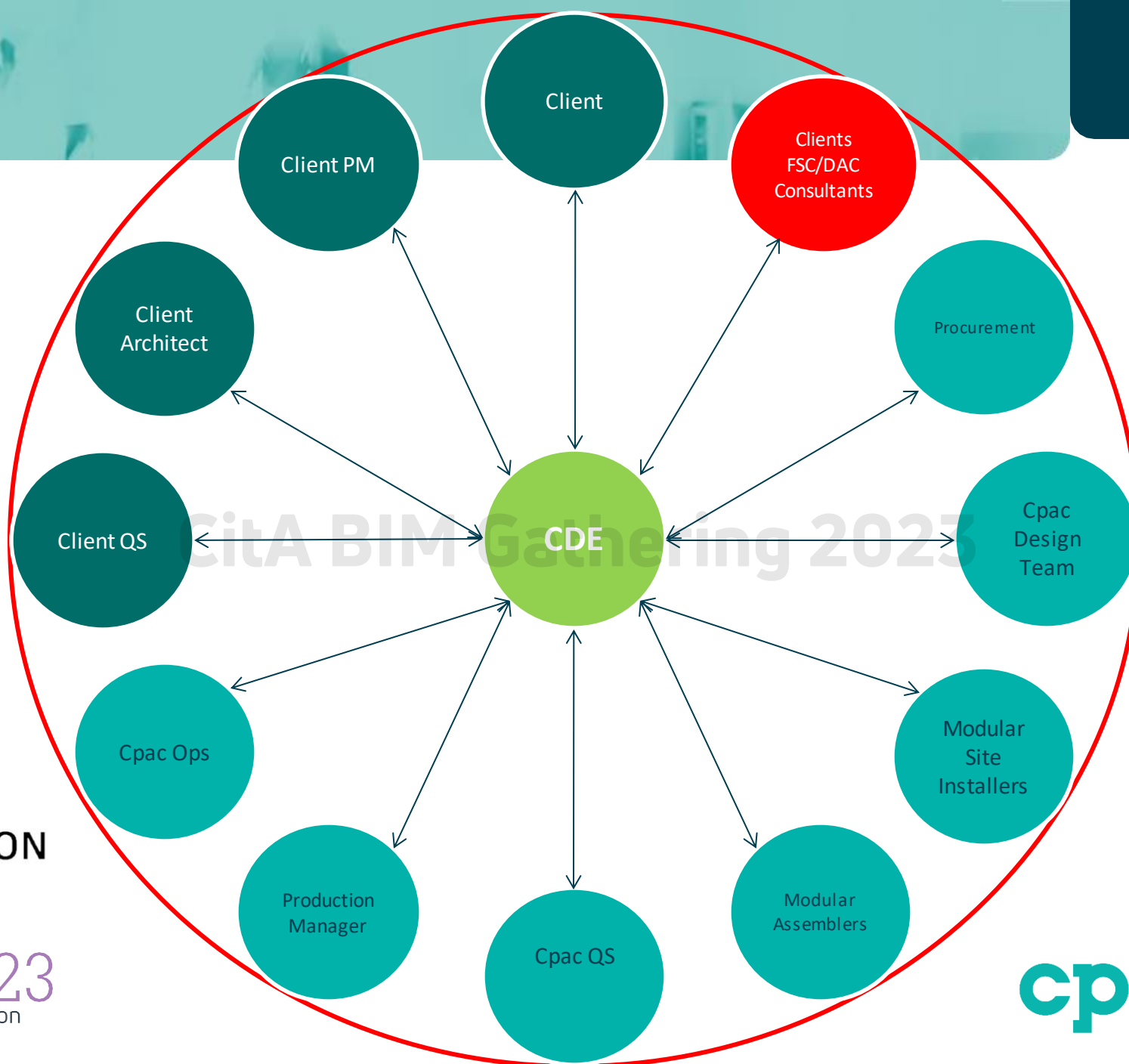


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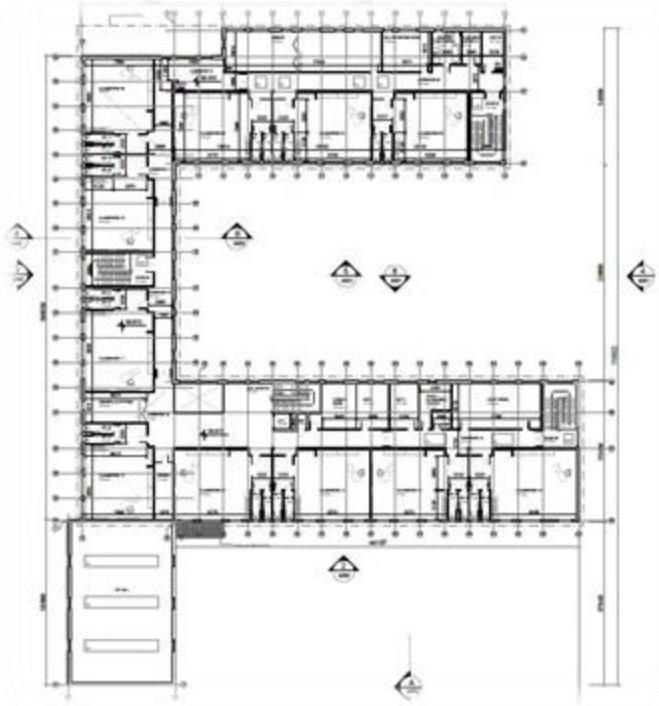




WITH CDE



2D Concept



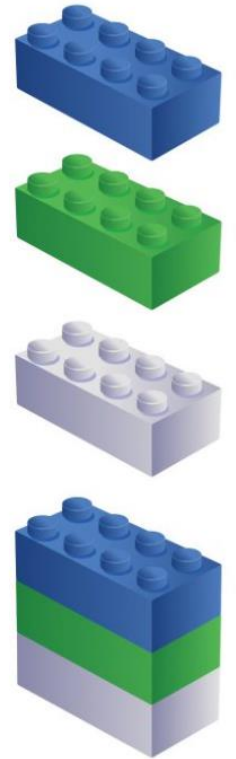
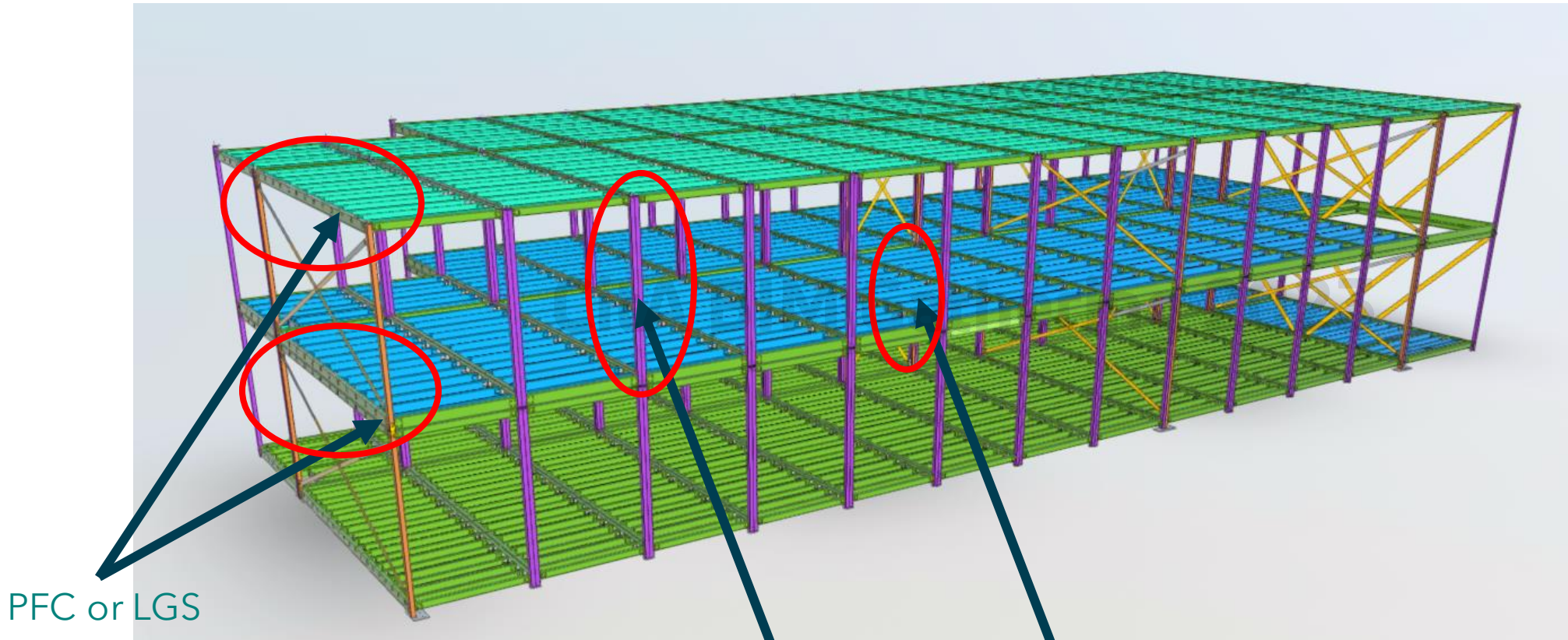
3D Model



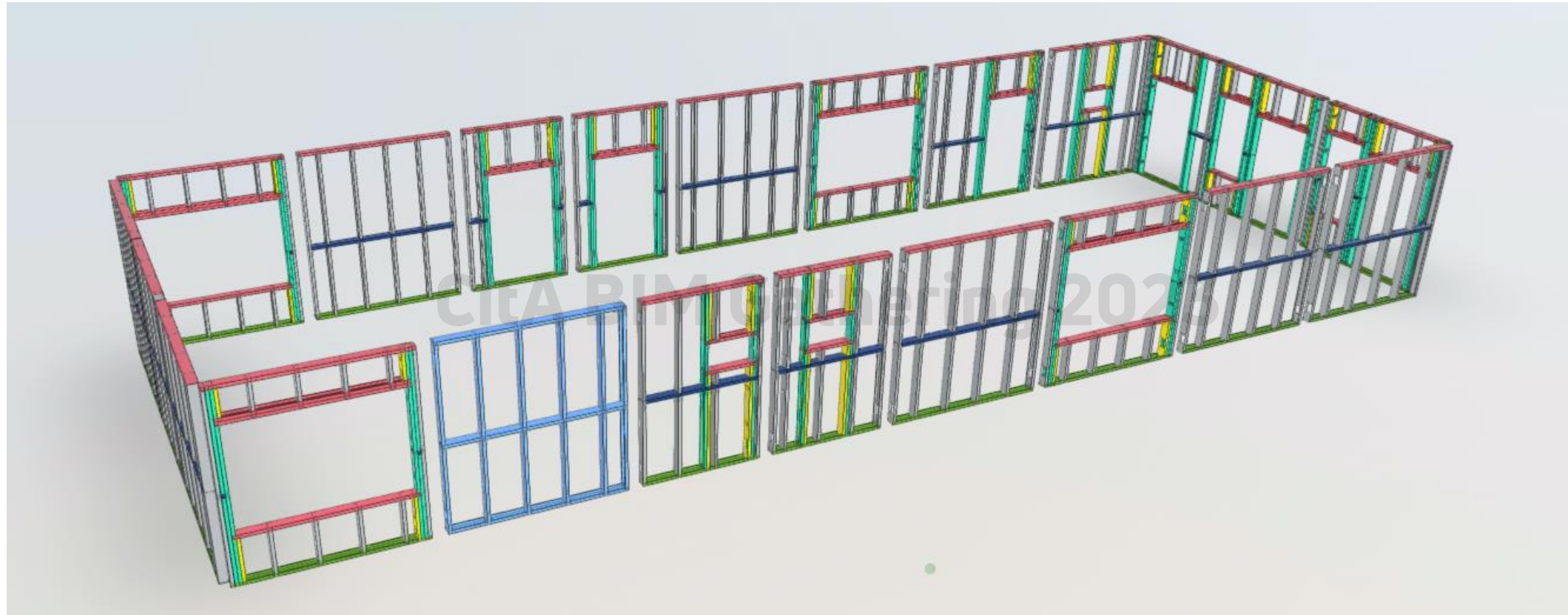
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Digital Twin

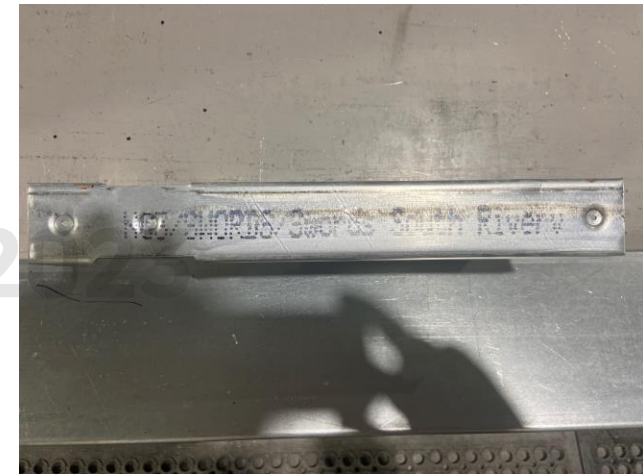


MODULE CORNER POST SYSTEM



LIGHT GAUGE STEEL WALL PANELS





89mm
150MM
300MM



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Image by koshika_nasvarti / Freepik

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THANK YOU