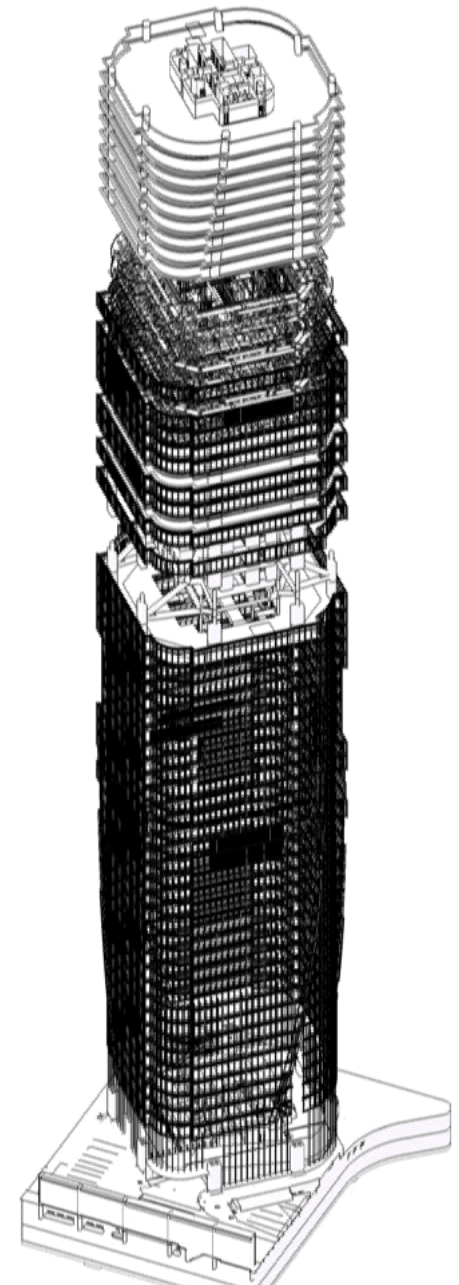


HKIA BIM Seminar III

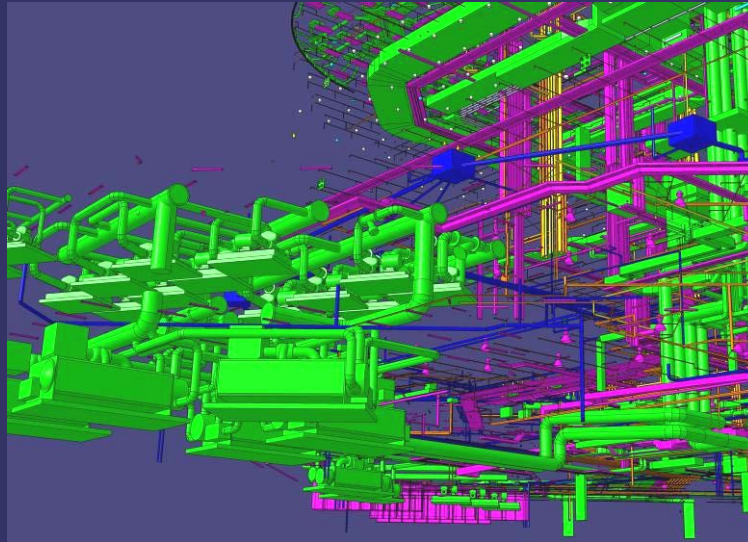
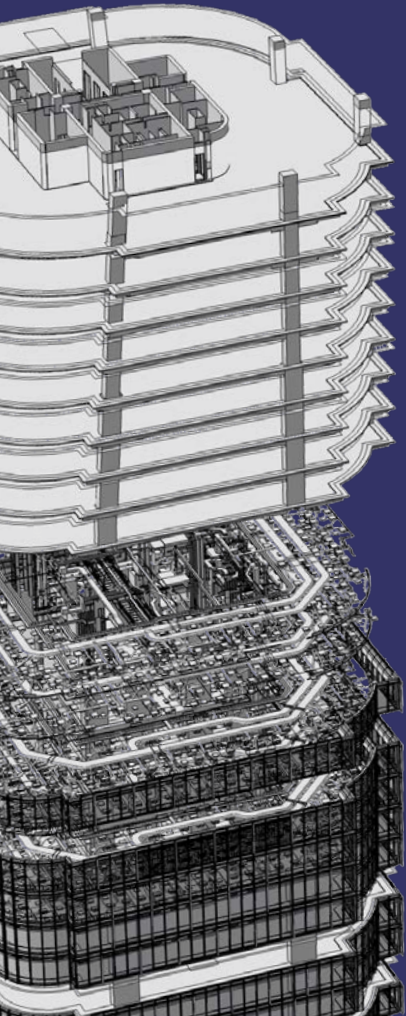
The Experiences

Building Information Model Implementation

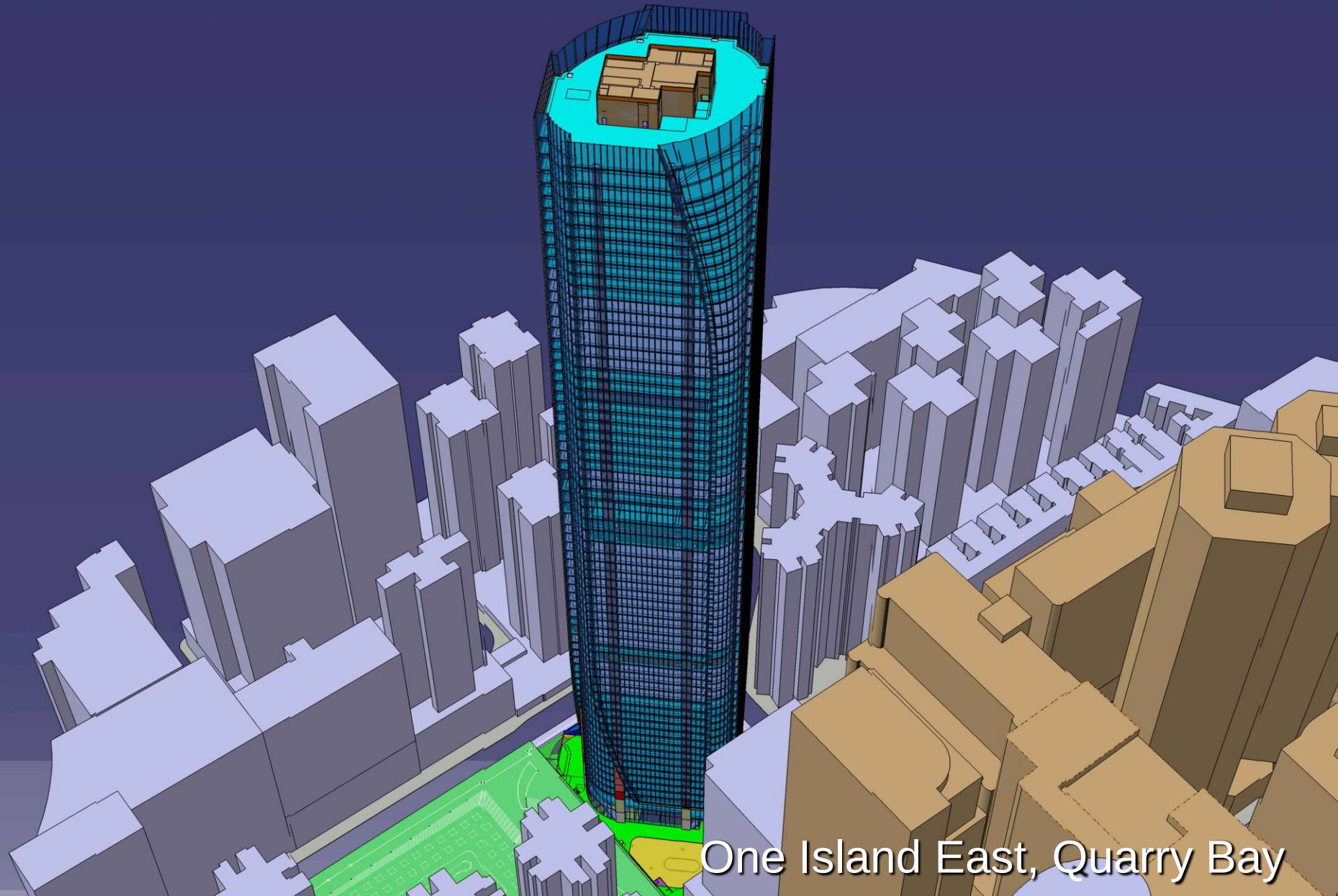


Pilot Projects

- One Island East

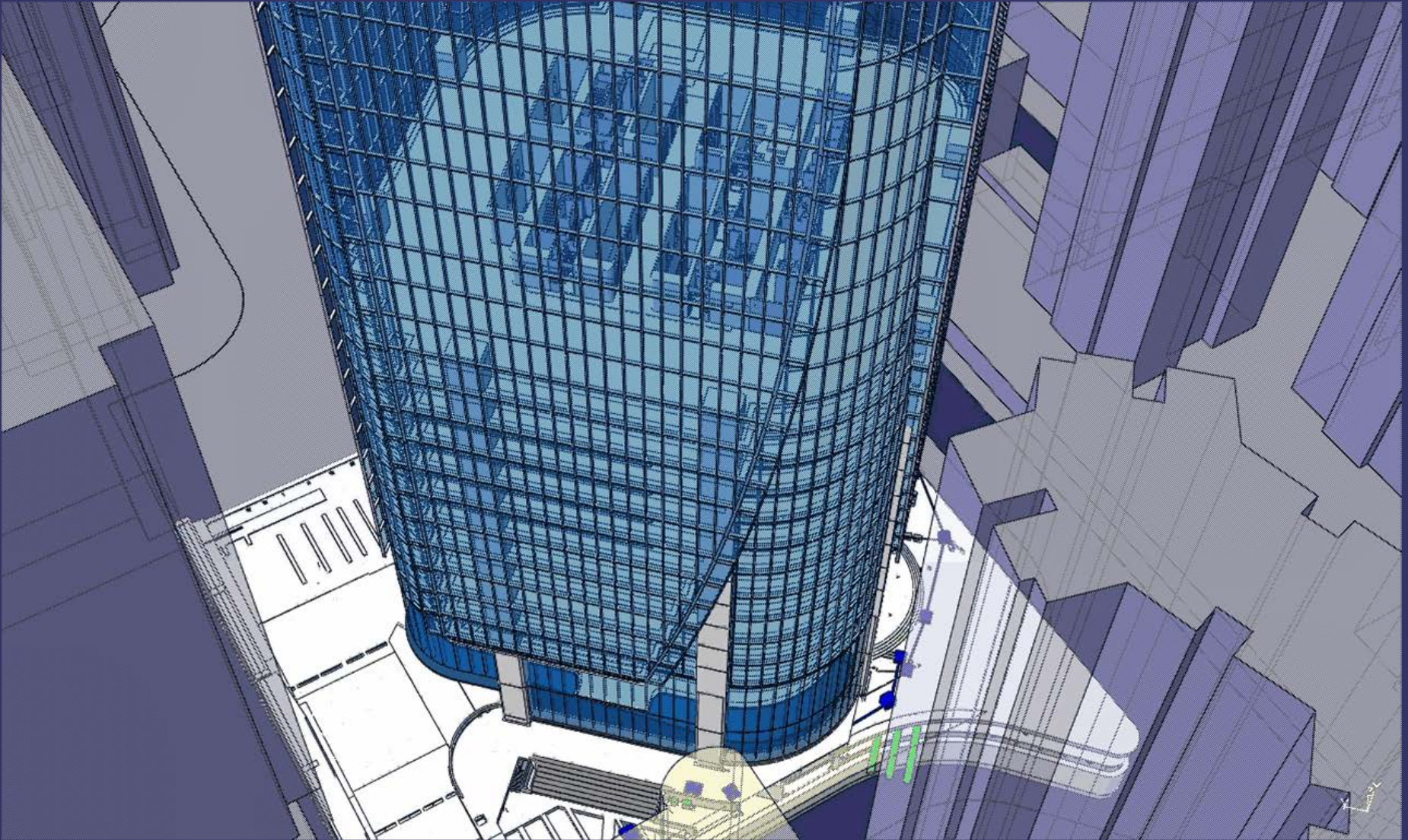


Tender Model by Consultants



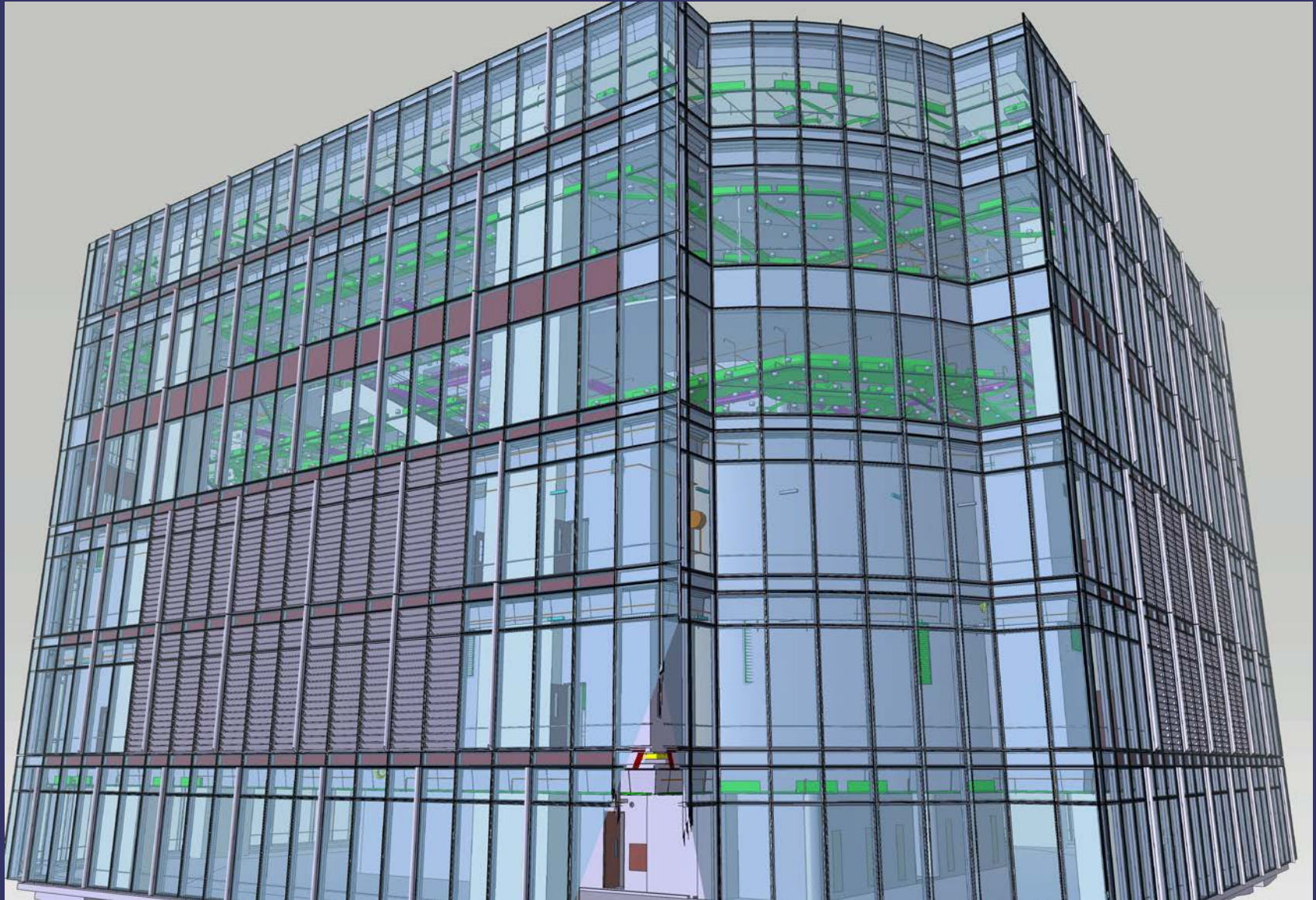
One Island East, Quarry Bay

One Island East

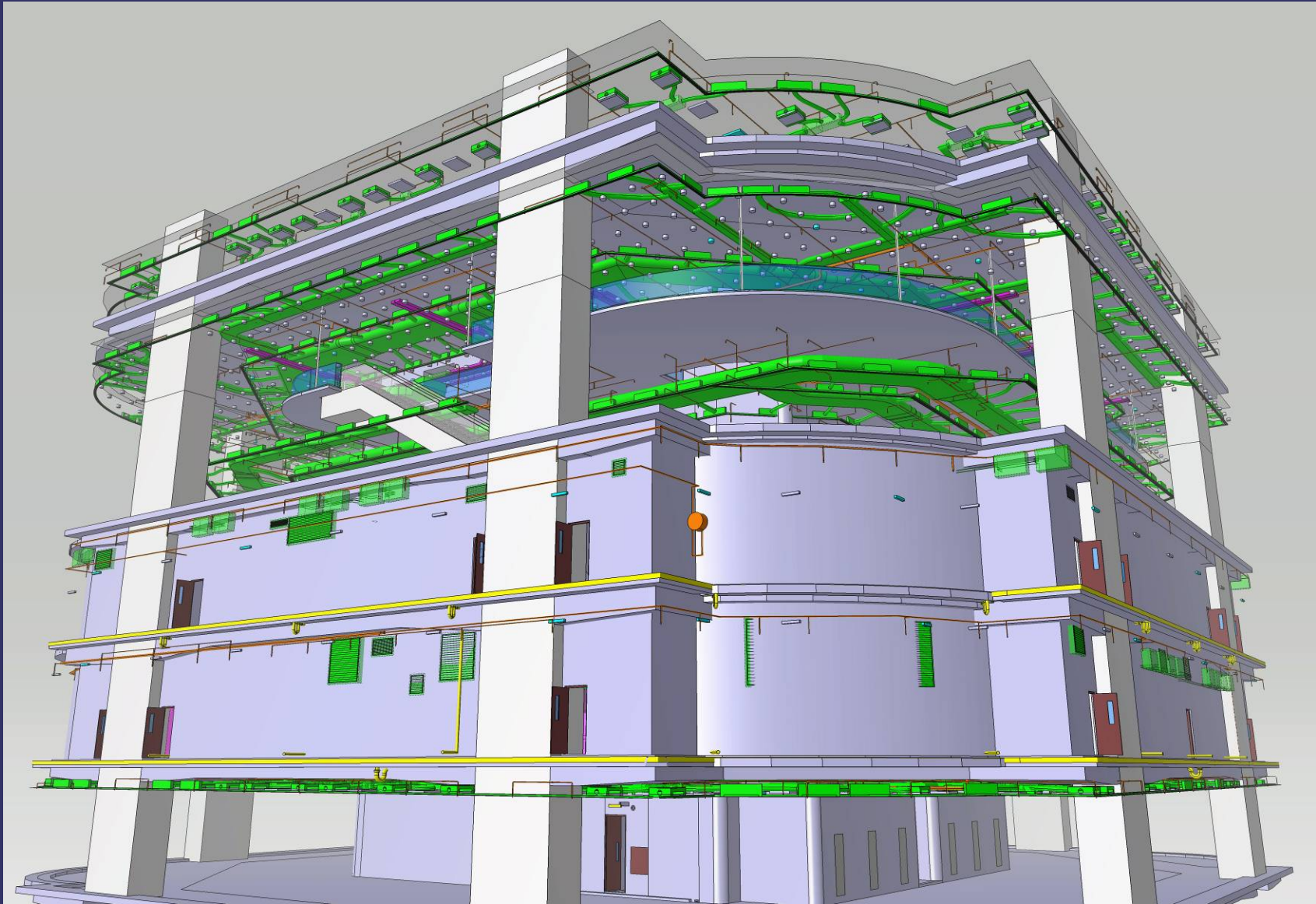


BIM Architectural Configuration

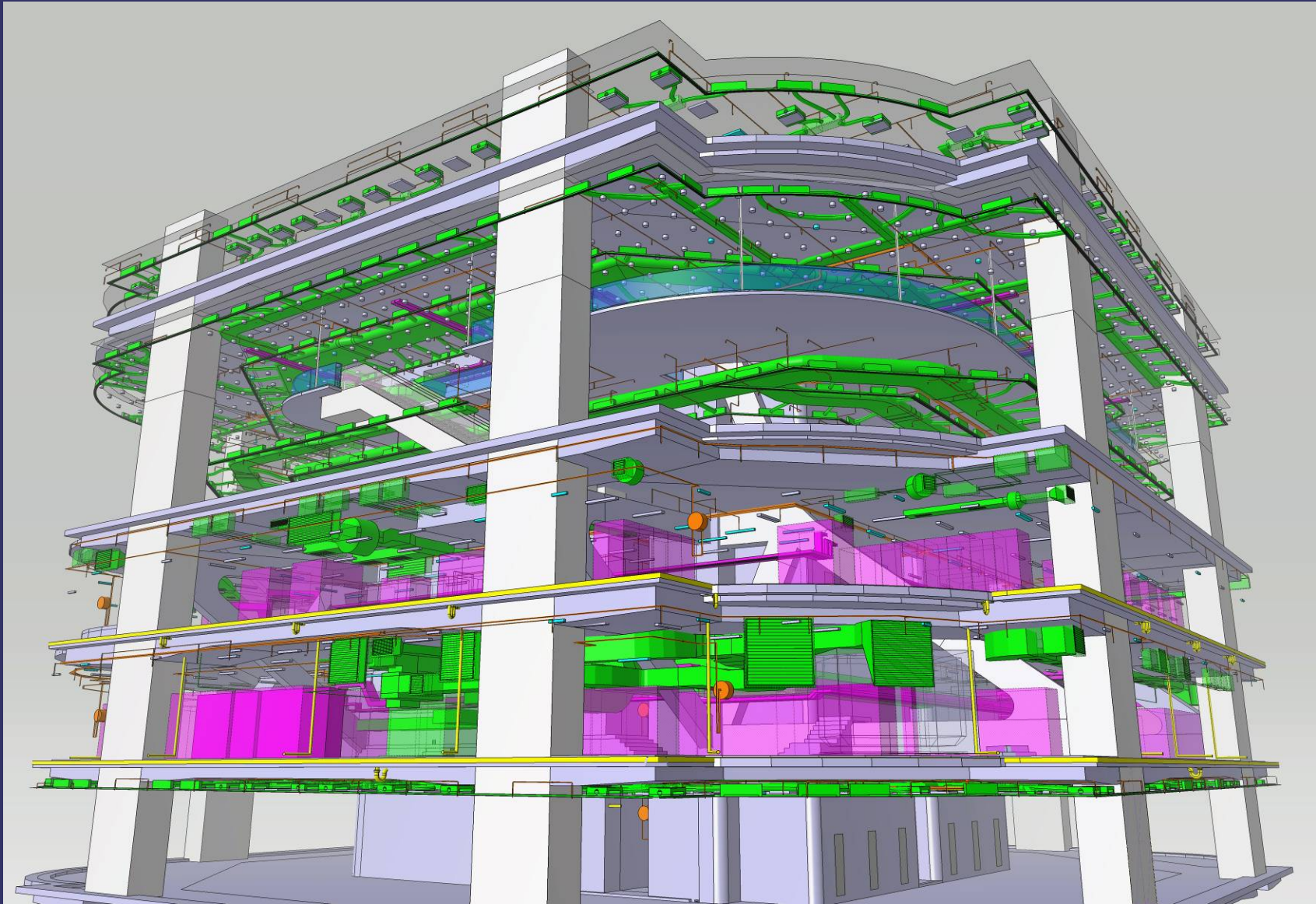
One Island East



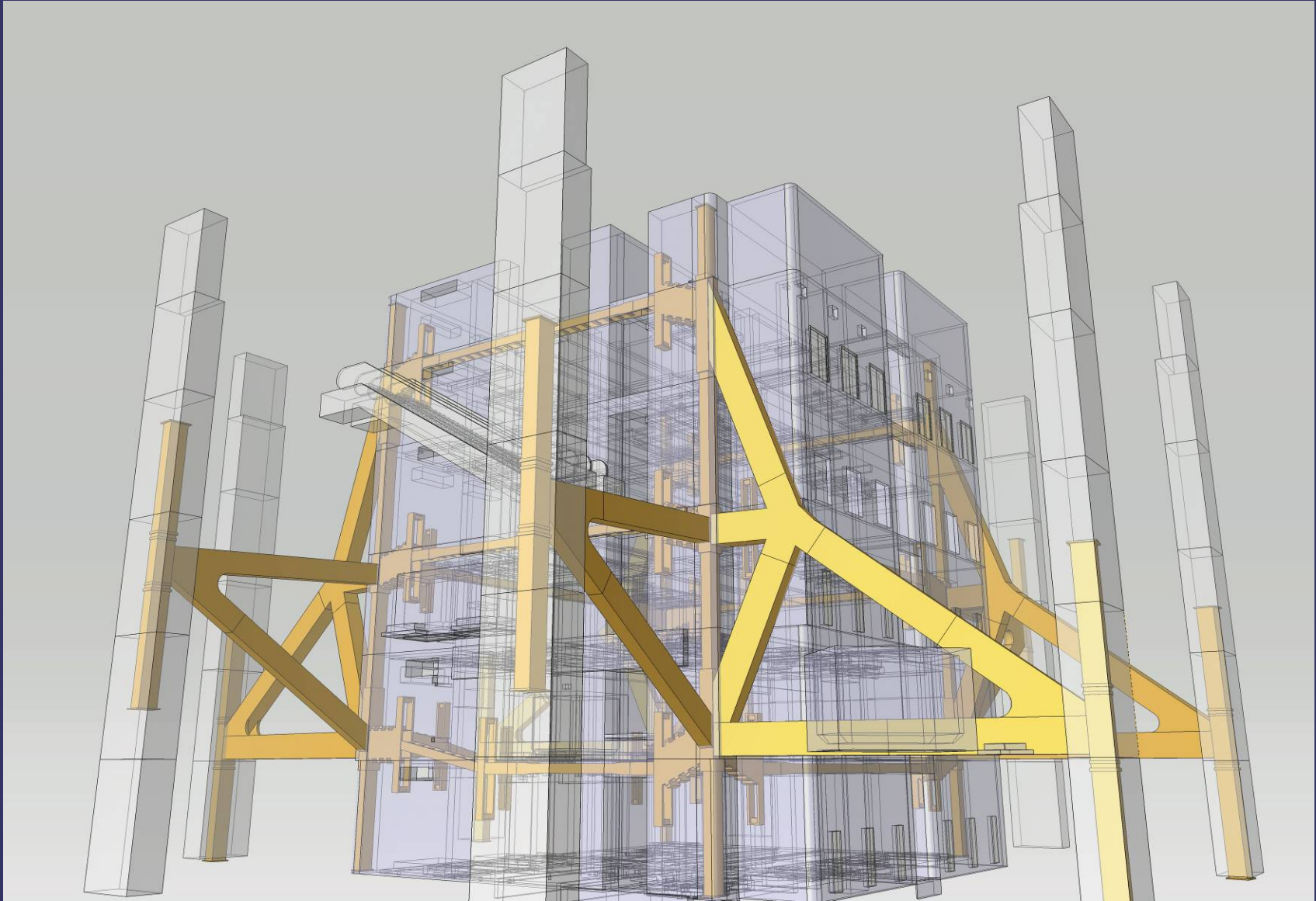
One Island East



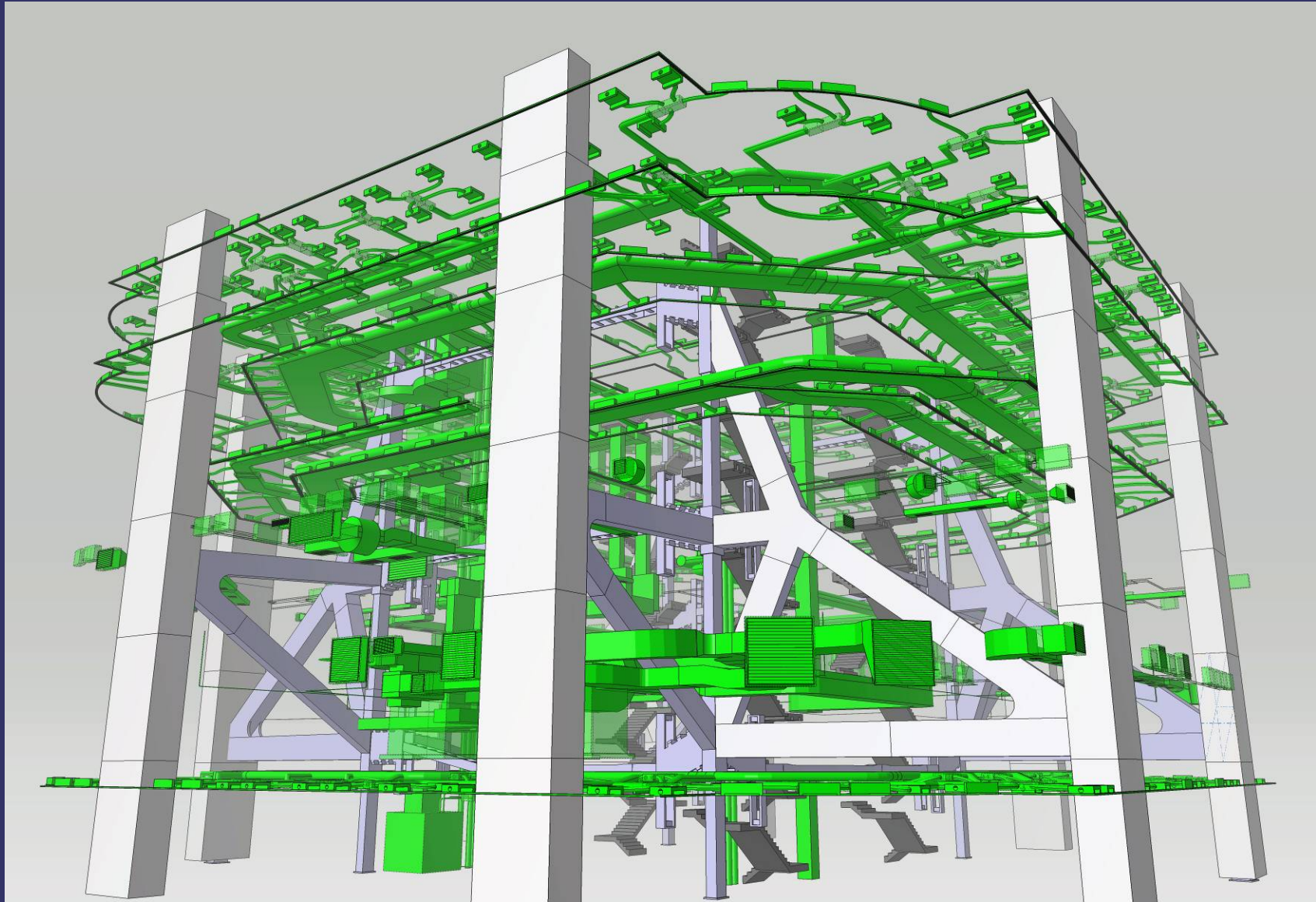
One Island East



One Island East

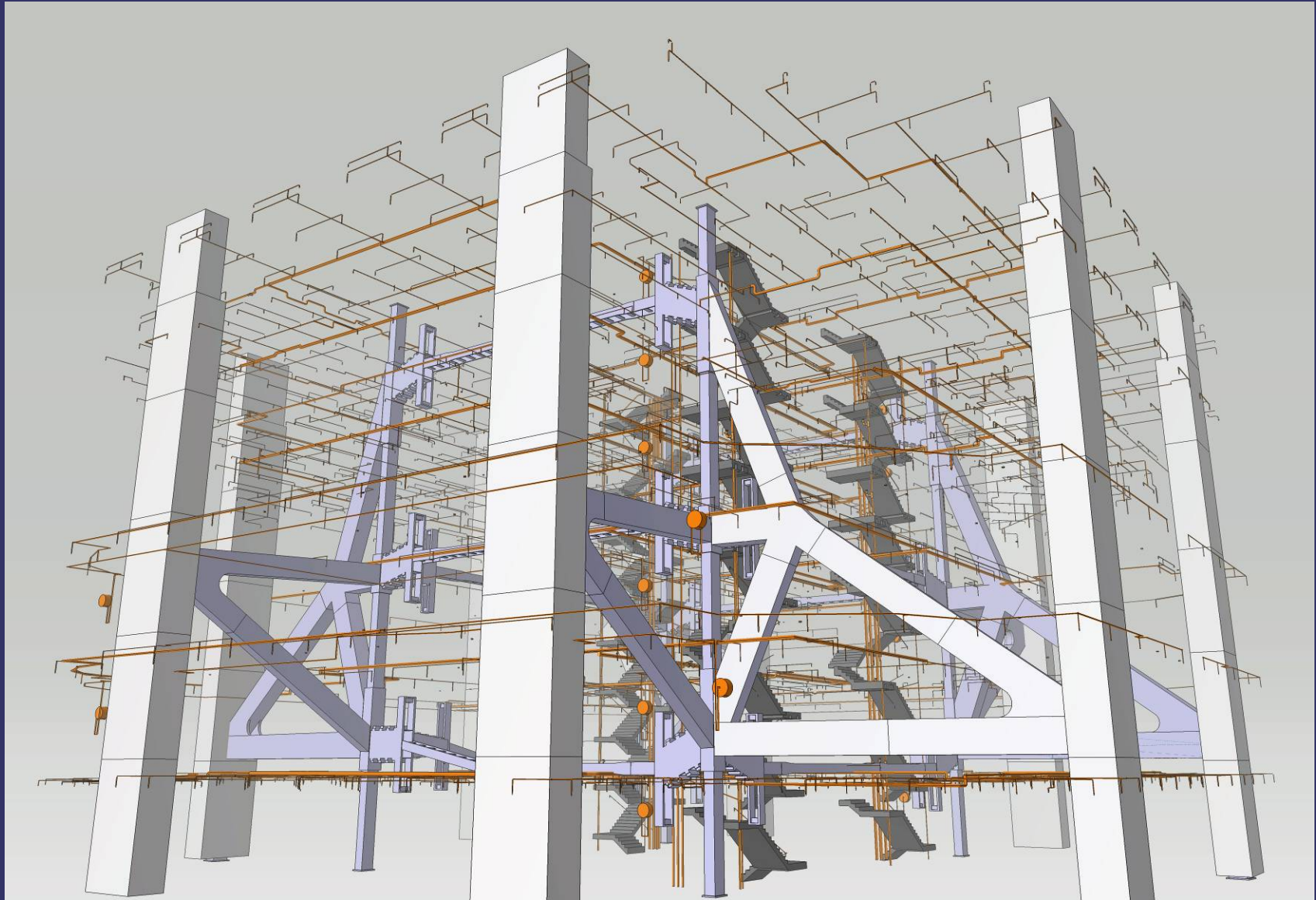


One Island East



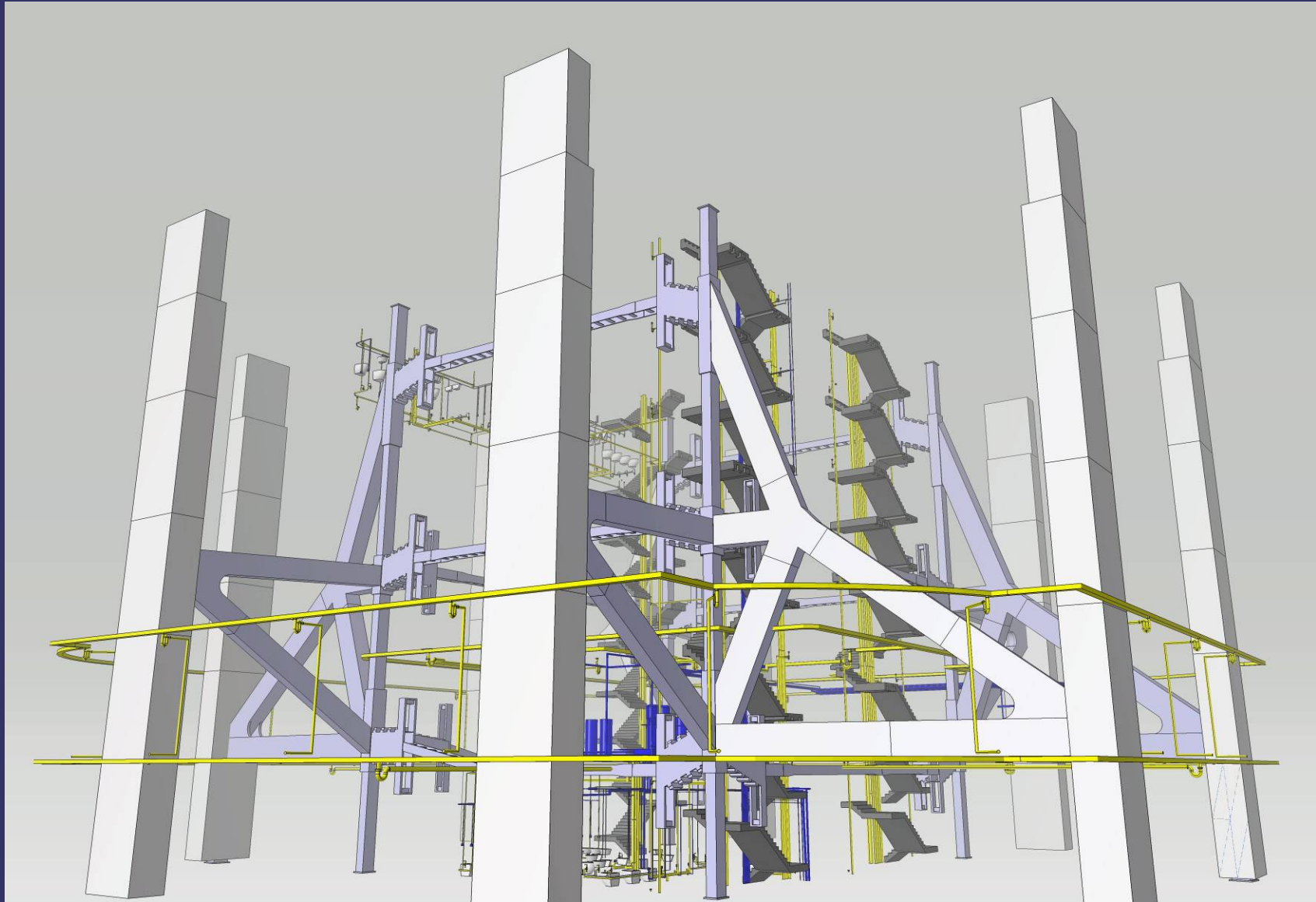
BIM HVAC Configuration

One Island East



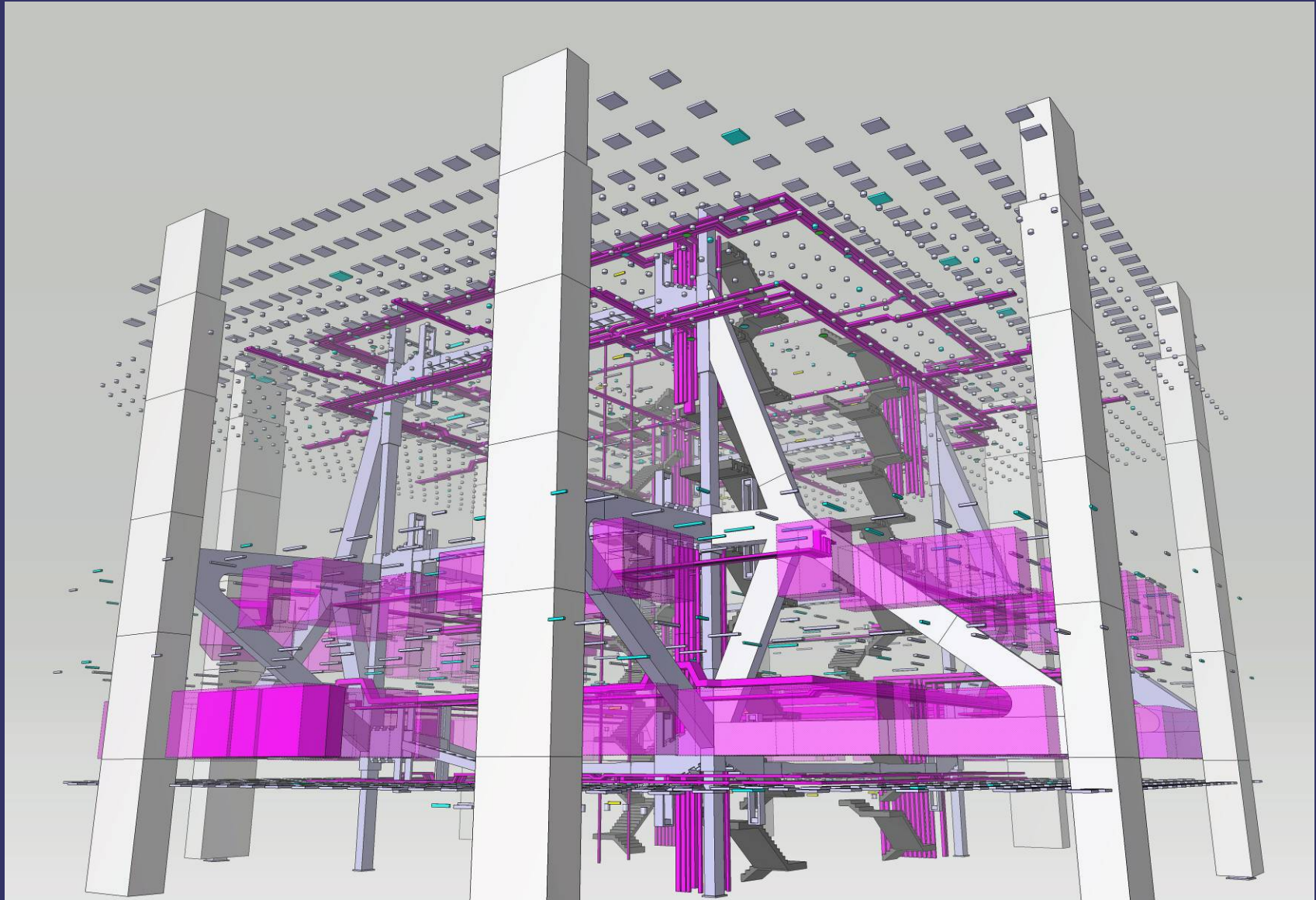
BIM FS Configuration

One Island East



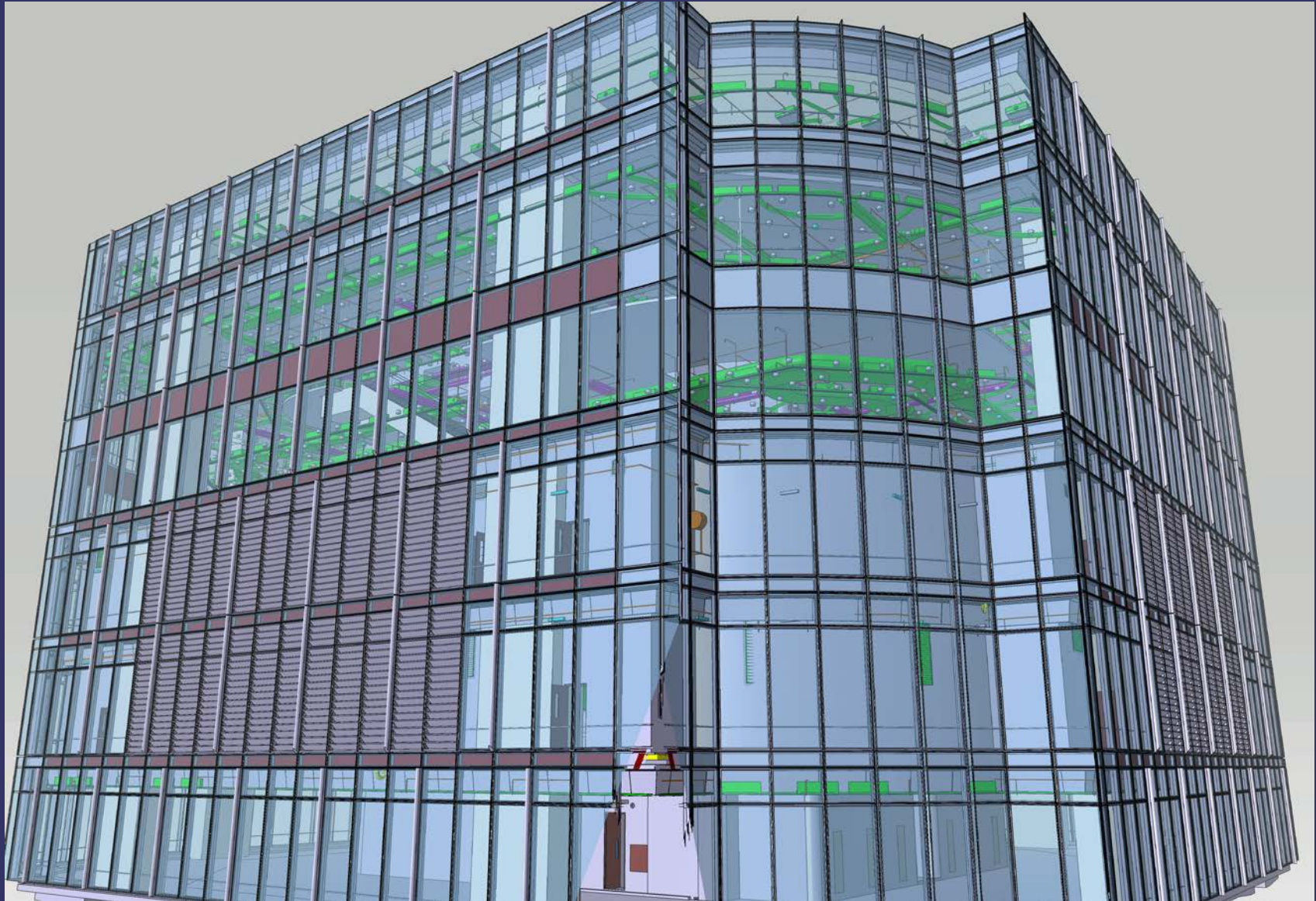
BIM Plumb & Drainage Configuration

One Island East



BIM ELEC Configuration

One Island East

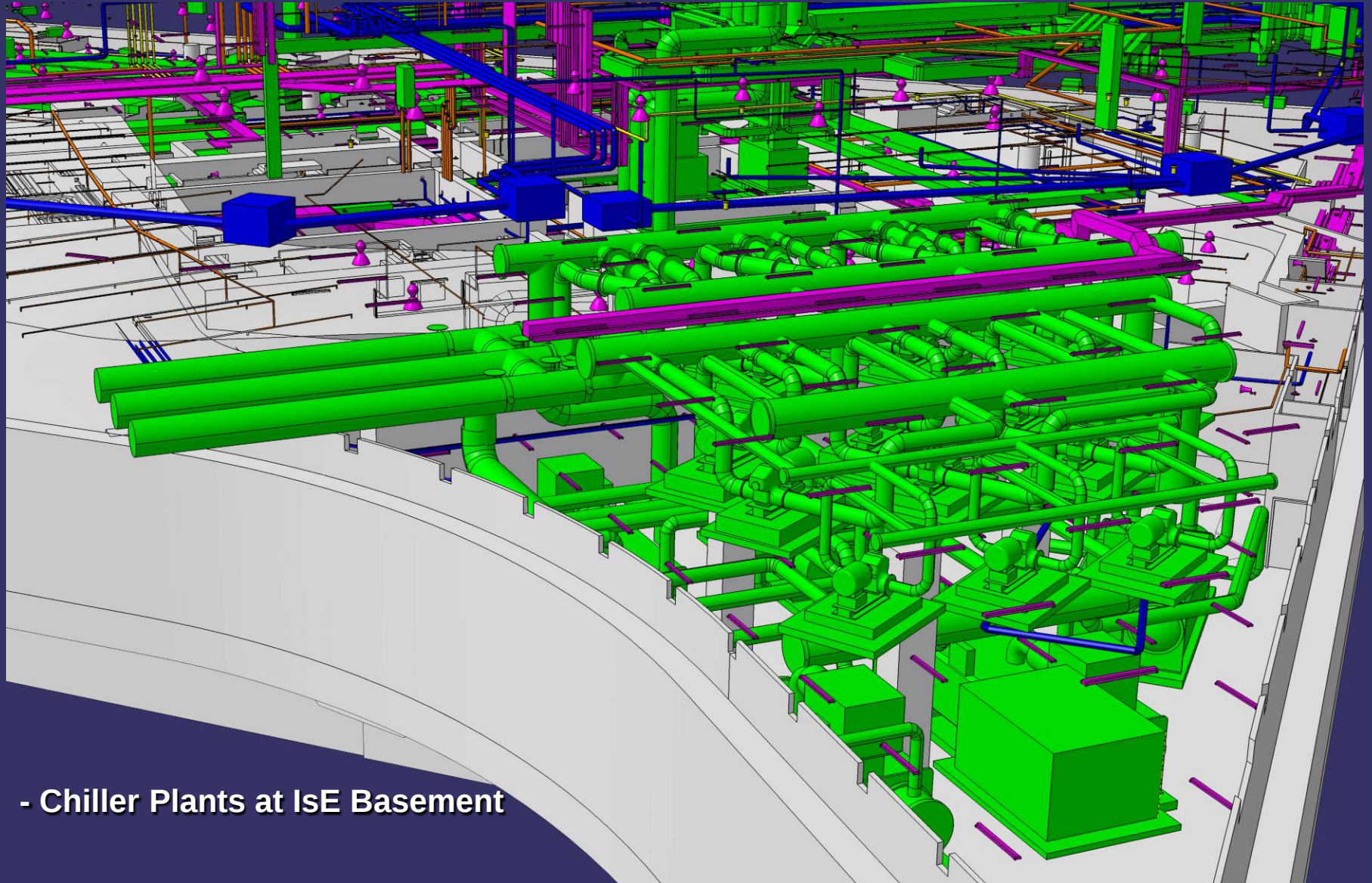


Application of BIM



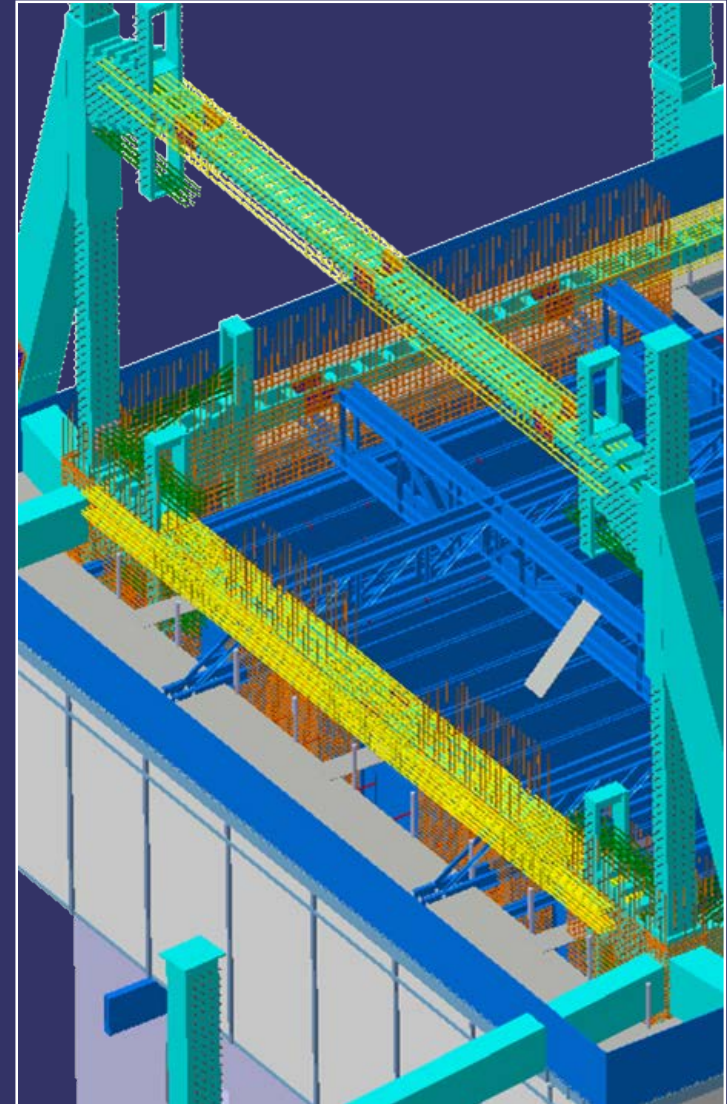
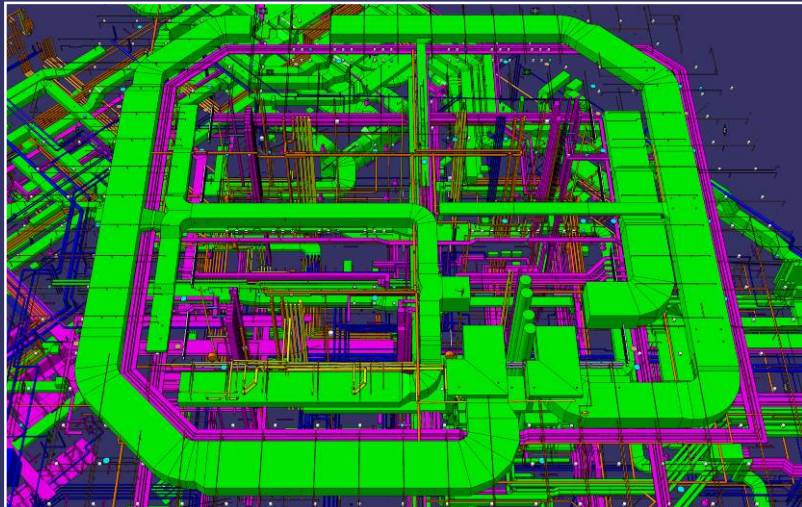
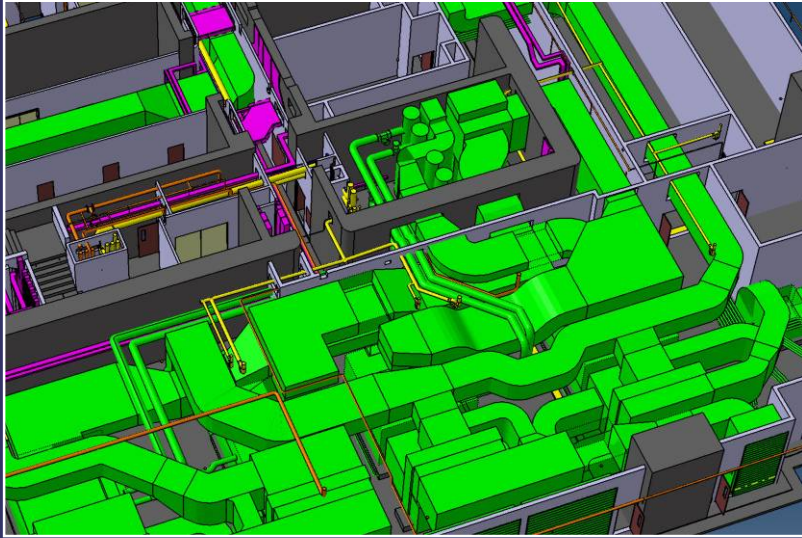
One Island East, Quarry Bay

Detail Design and Coordination



- Chiller Plants at IsE Basement

Detail Design and Coordination

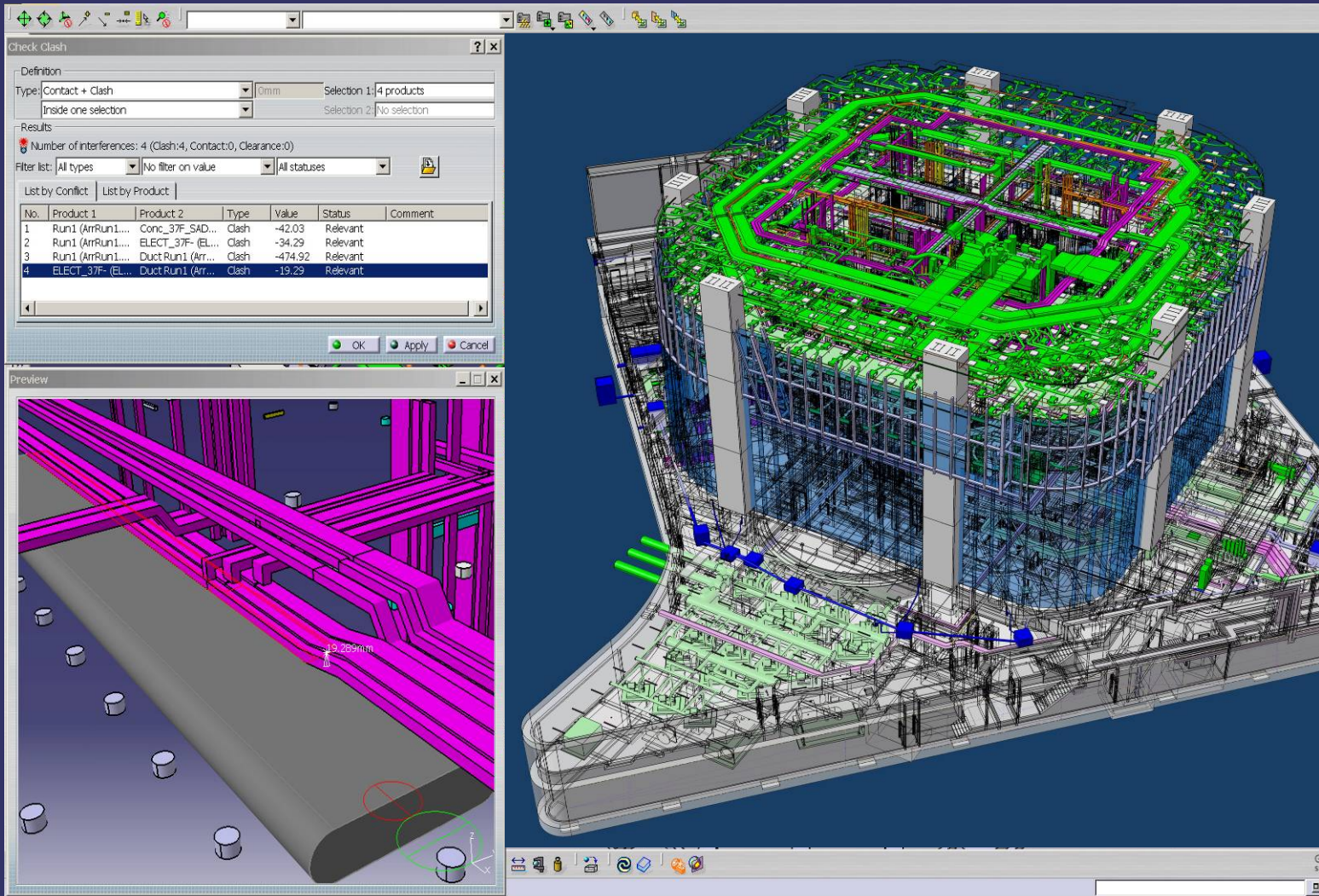


Project-wide multi-discipline design coordination

©2006 Gammon Construction Limited. All Rights Reserved

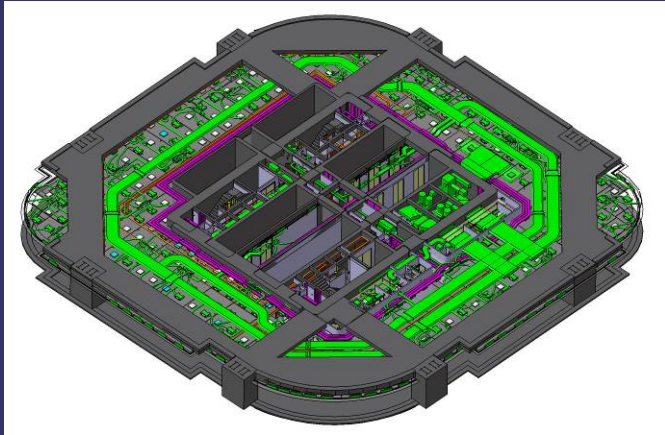


Detail Design and Coordination

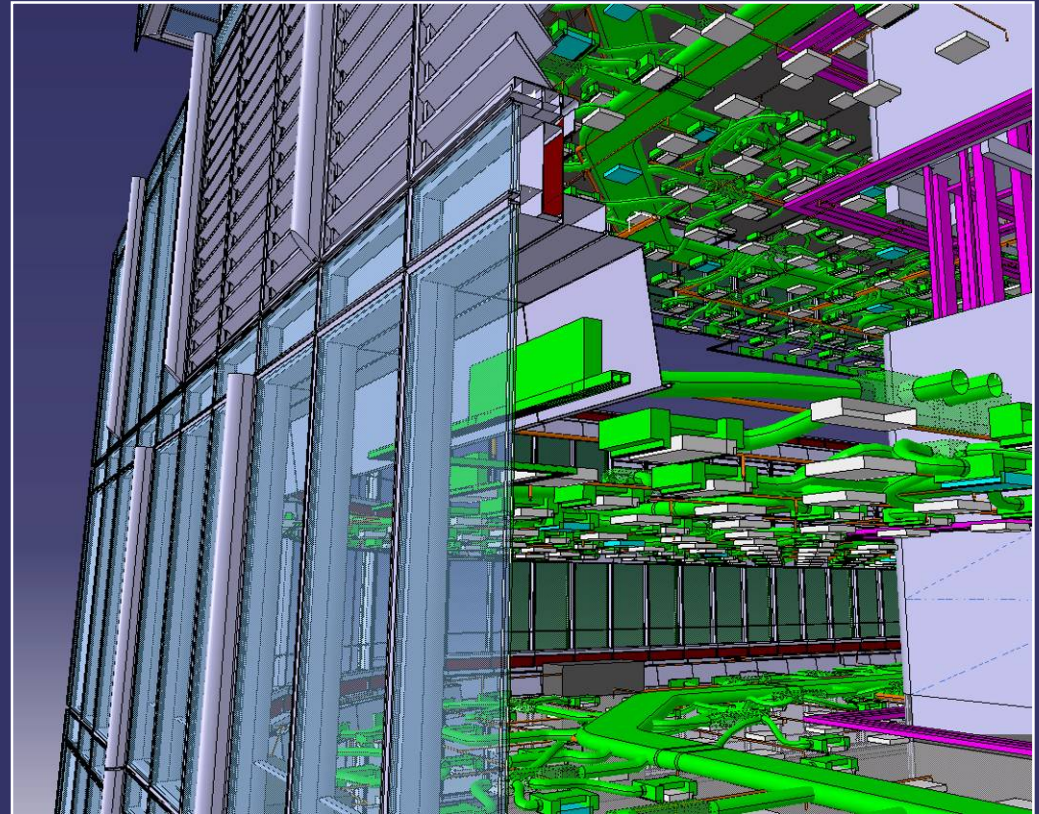
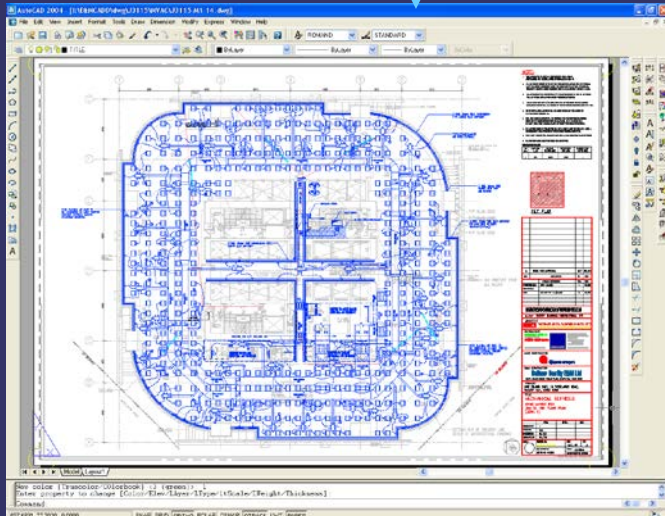


Automatic Clash Identification and Management

Work Document Coordination



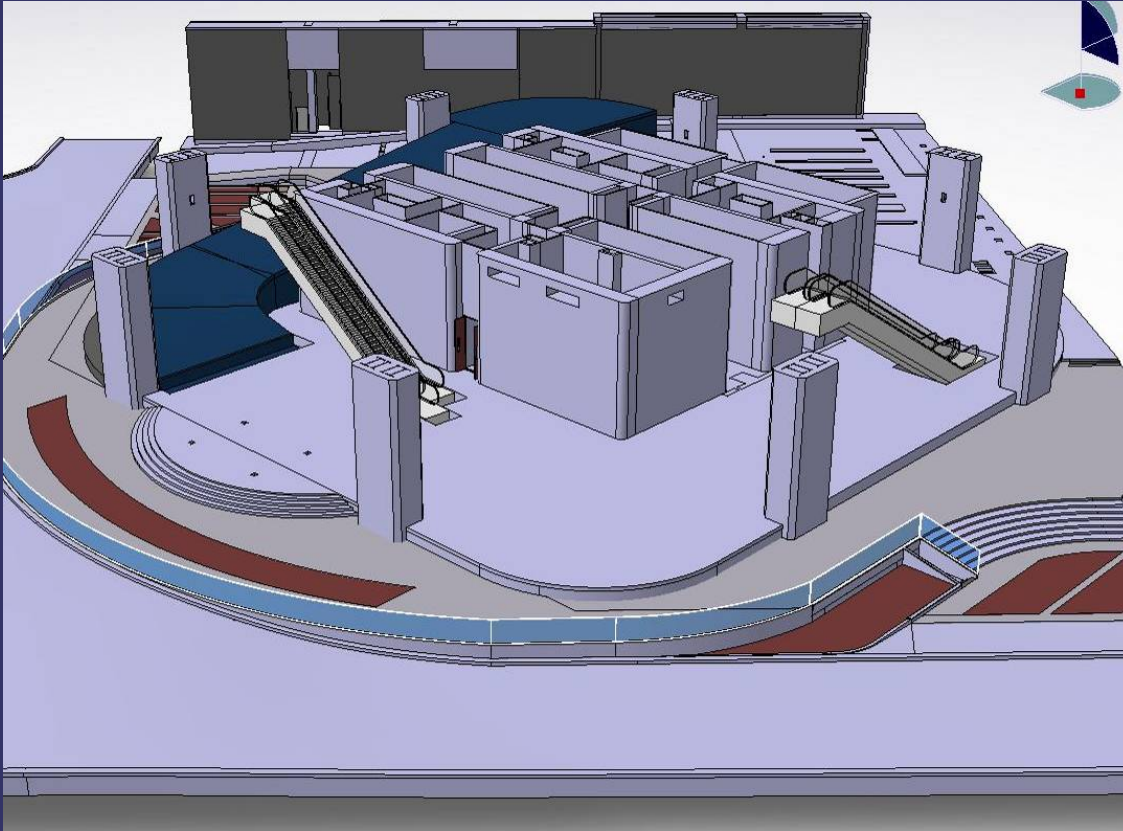
Coordinated 3D geometries



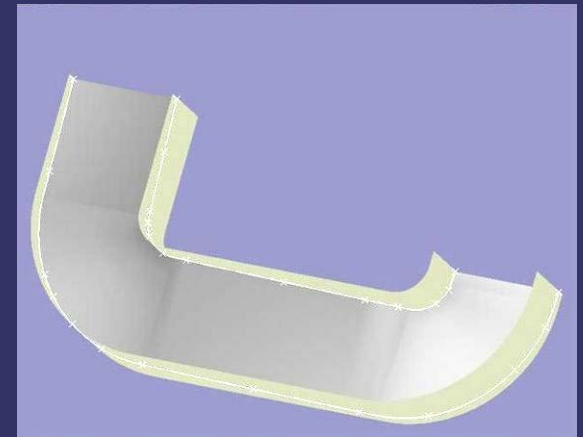
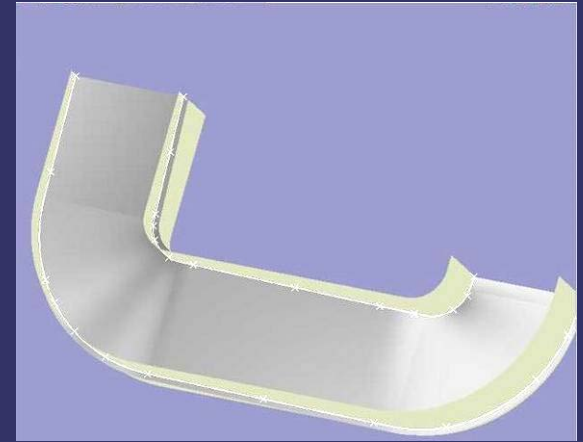
Live Sectioning

2D geometries output to ACAD for further coordination

Facilitate Design Development

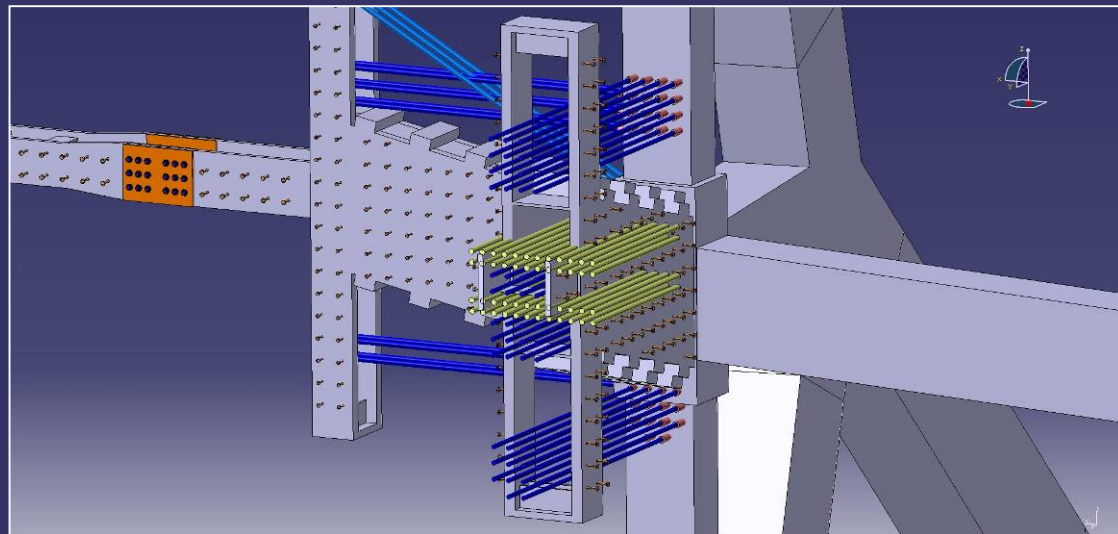
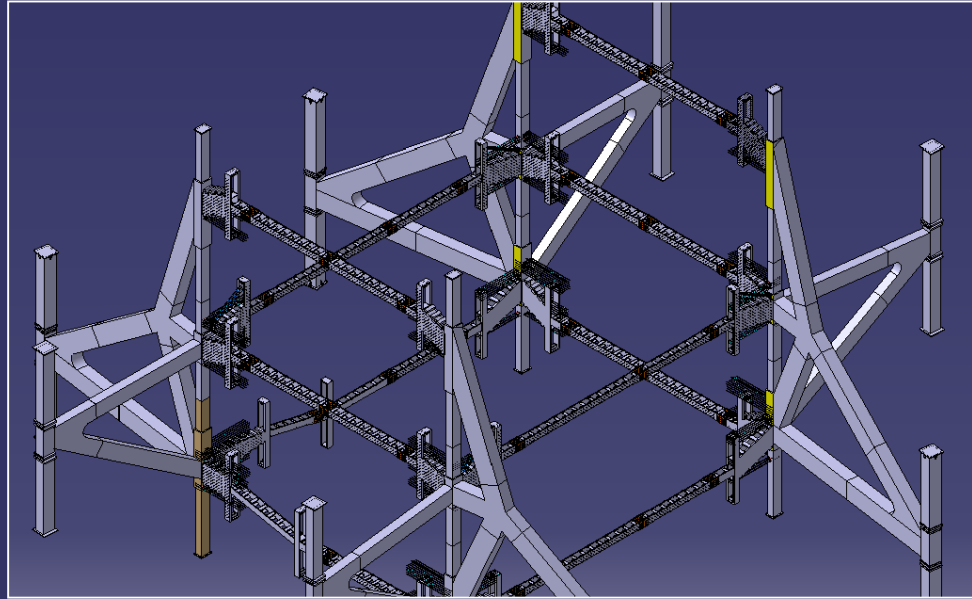


Road Curb Design Review



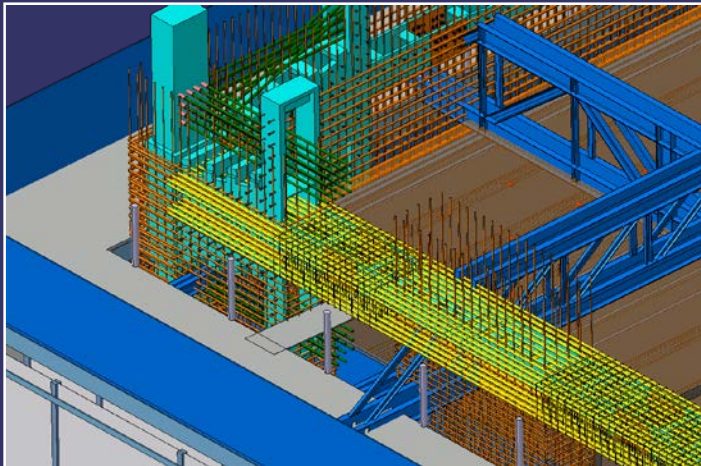
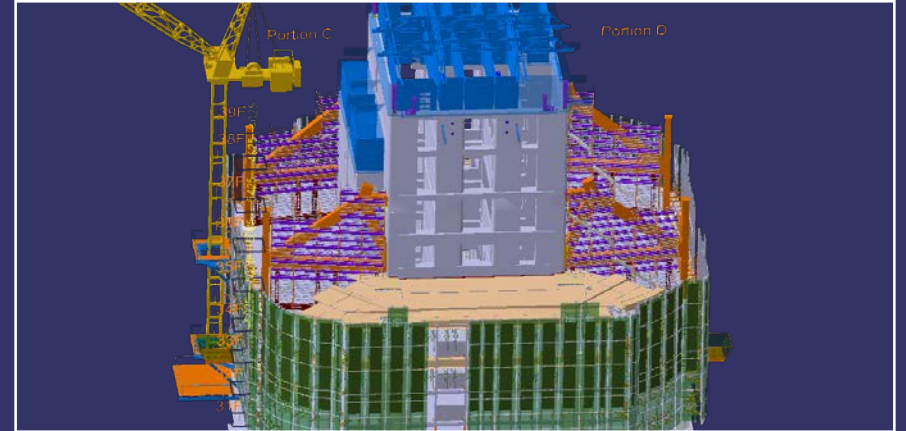
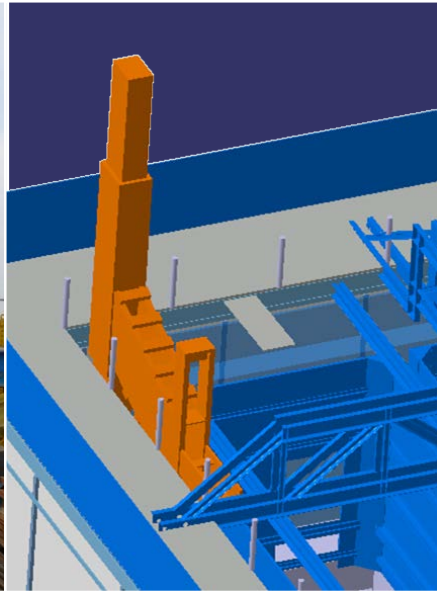
Car-ramp Design Review

Critical Structural Detail Checking



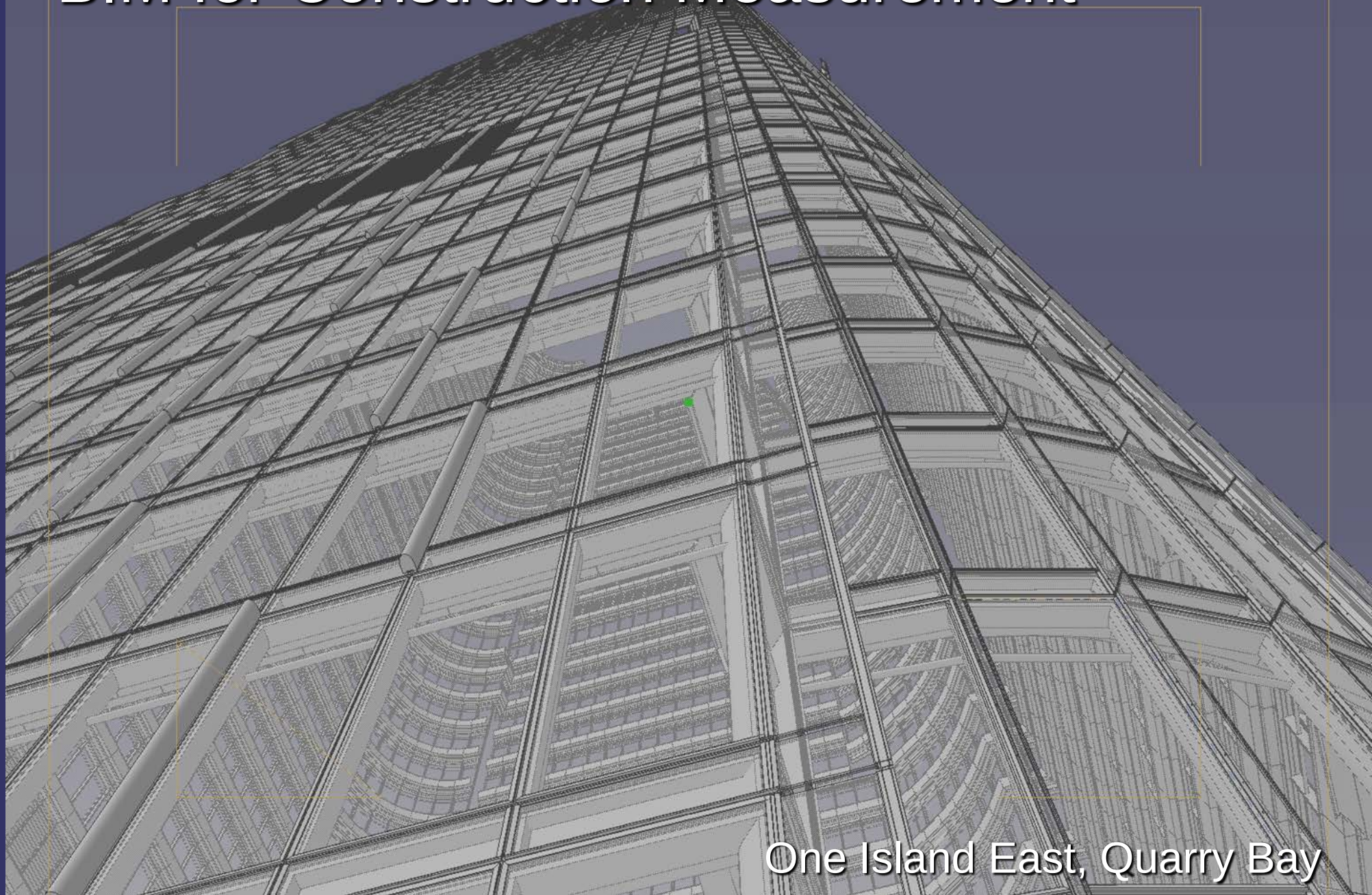
Steel Outrigger and Rebars

Critical Structural Detail Checking



Steel Outrigger

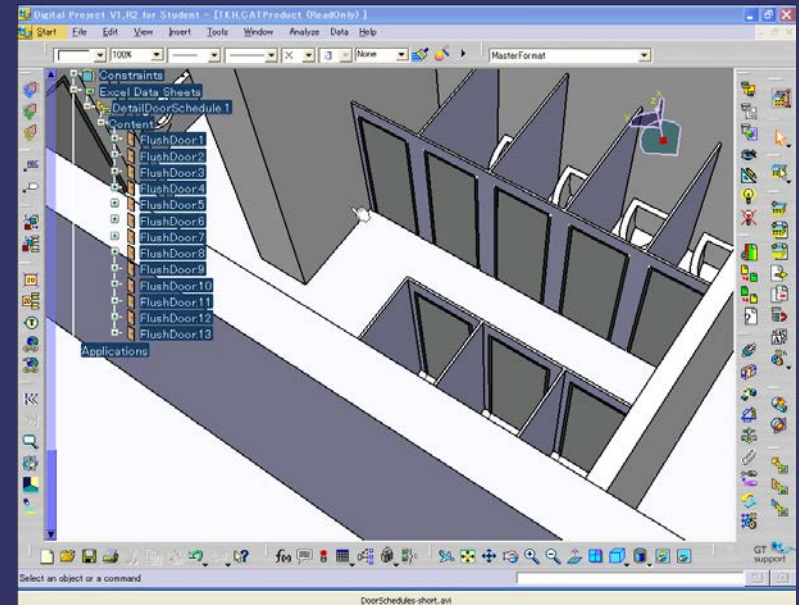
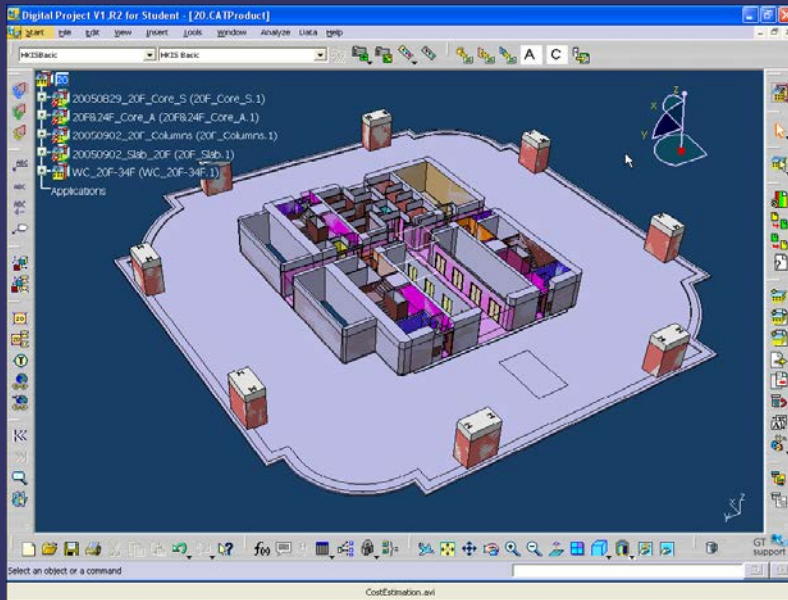
BIM for Construction Measurement



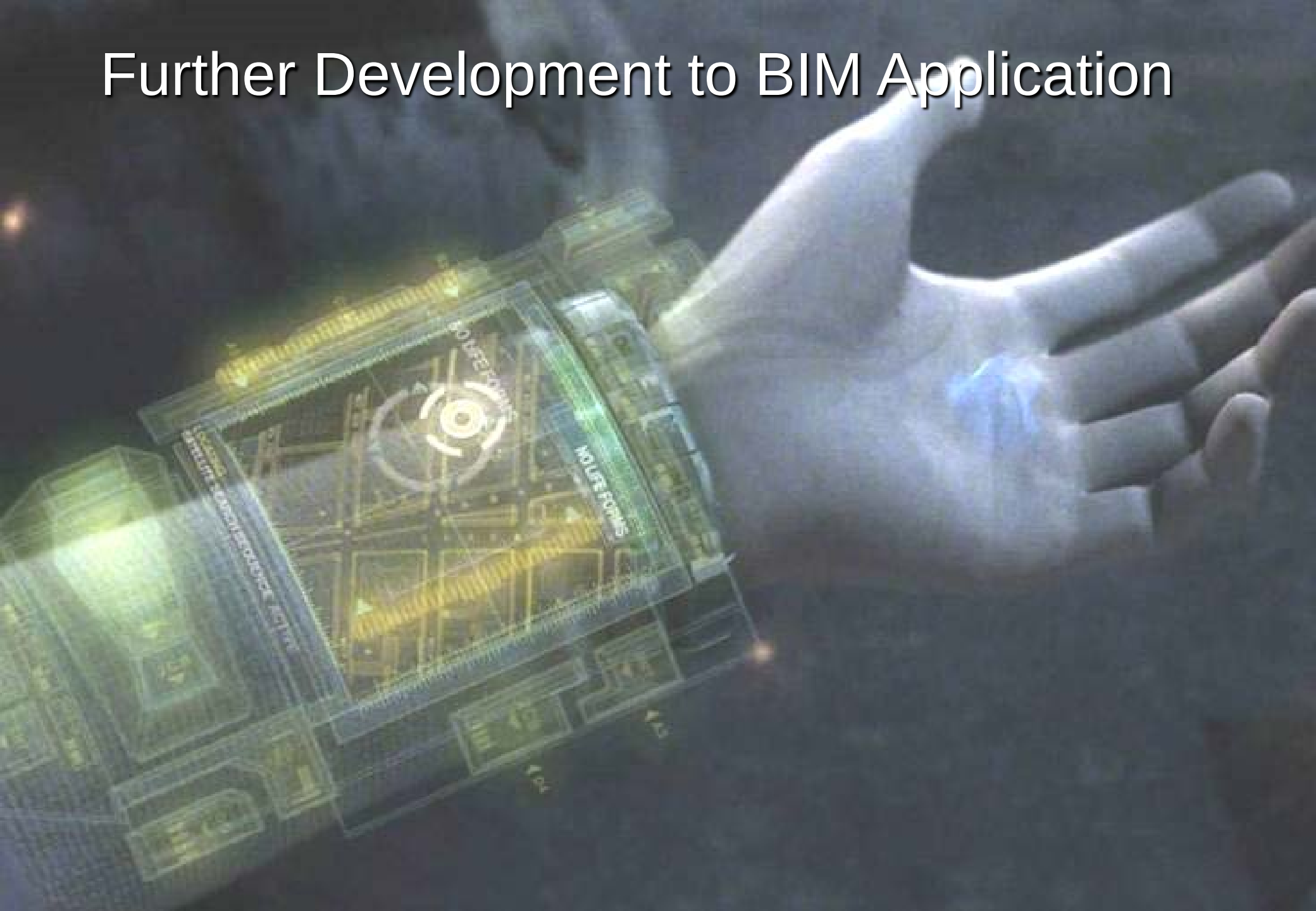
One Island East, Quarry Bay

Scheduling and Data Extraction

- Quantity Extraction from BIM
- Work Scheduling utilizing BIM

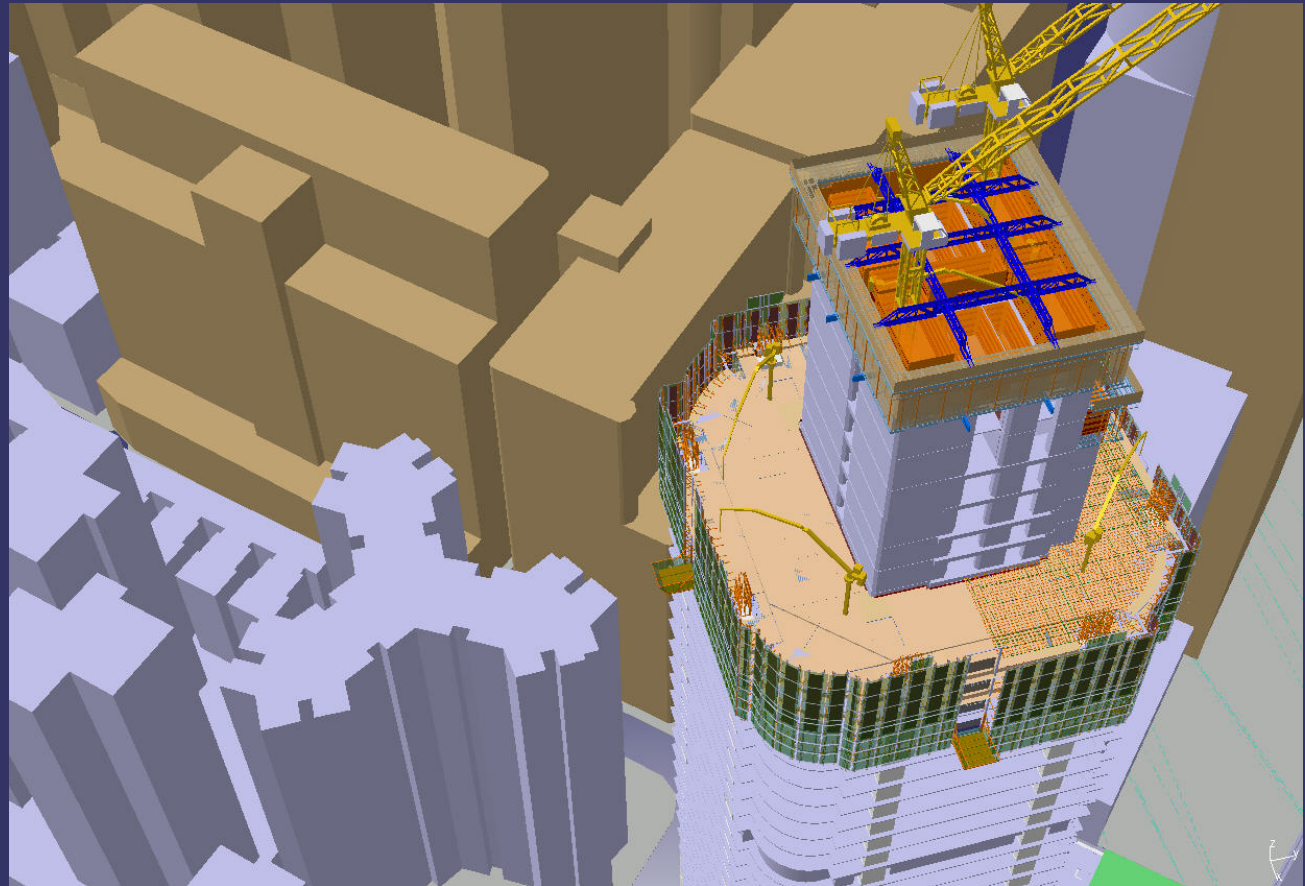


Further Development to BIM Application



Virtual Prototyping (4D Model)

- Detail study on the critical process
 - 4-day floor cycle



Virtual Prototyping

4 Day Cycle Simulation (Day 1)

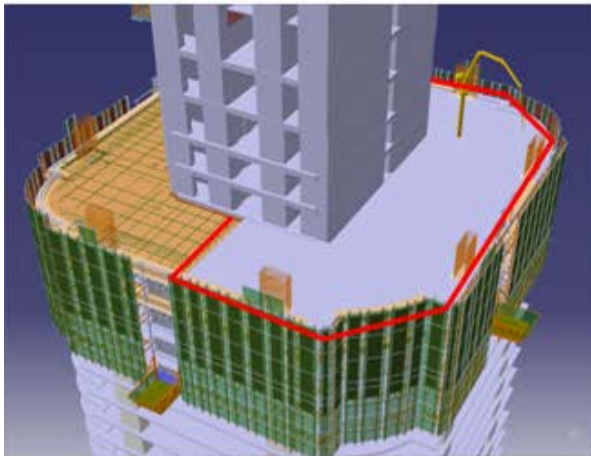
Morning



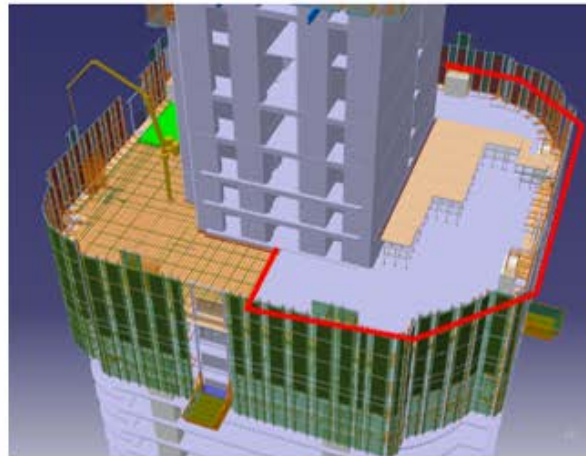
Afternoon



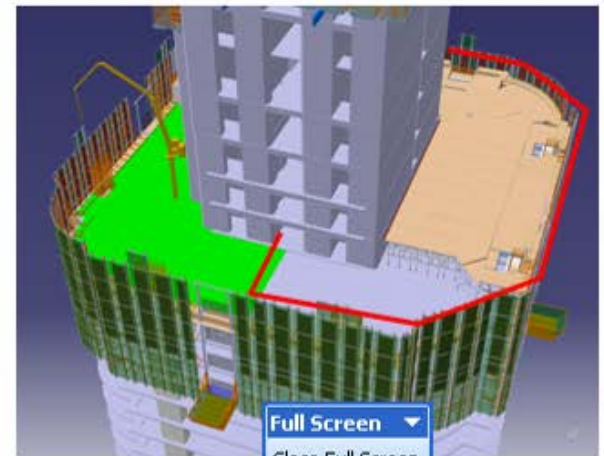
Evening



1. Set Up Table Form
2. Lift Safety Screen
3. Fixing Column Form



1. Set Up Table Form
2. Lift Safety Screen
3. Fixing Column Form

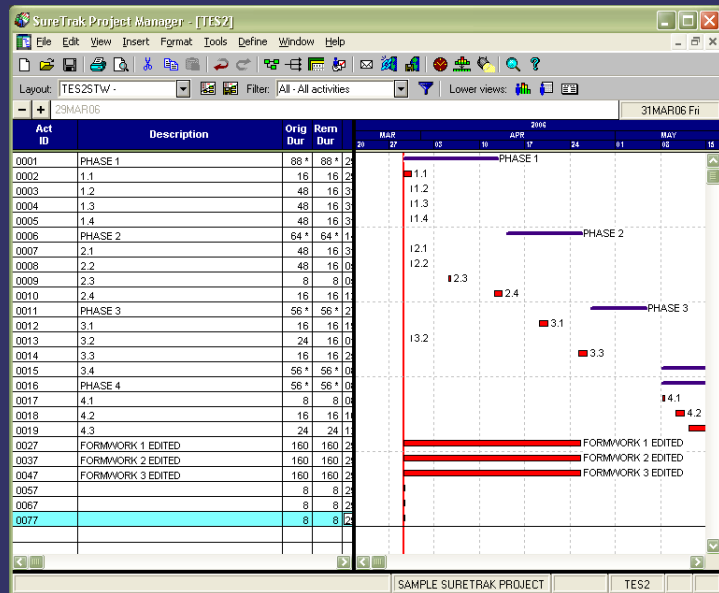


1. Set Up Table

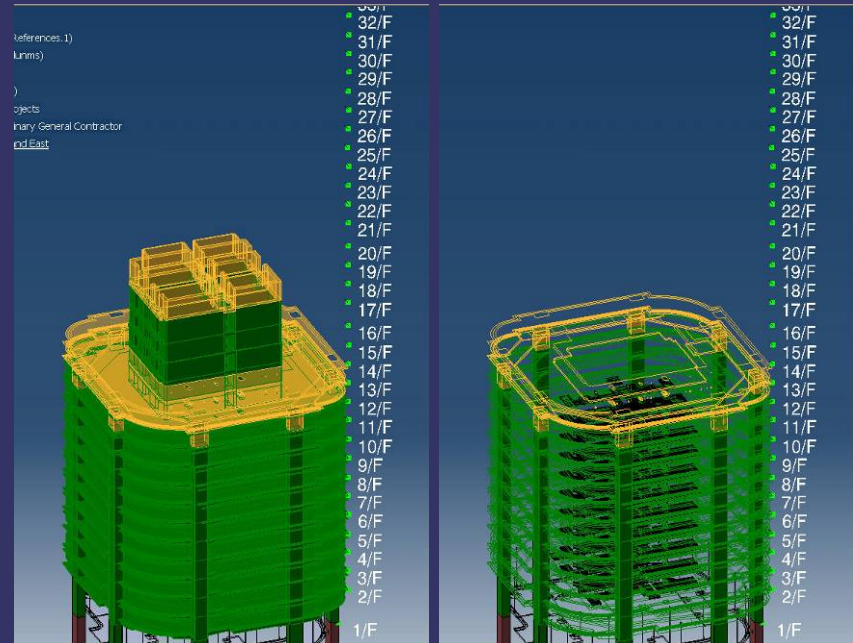
Full Screen
Close Full Screen

Visualize Master Progress with 4D Model

Data exchanging between Primavera and Digital Project

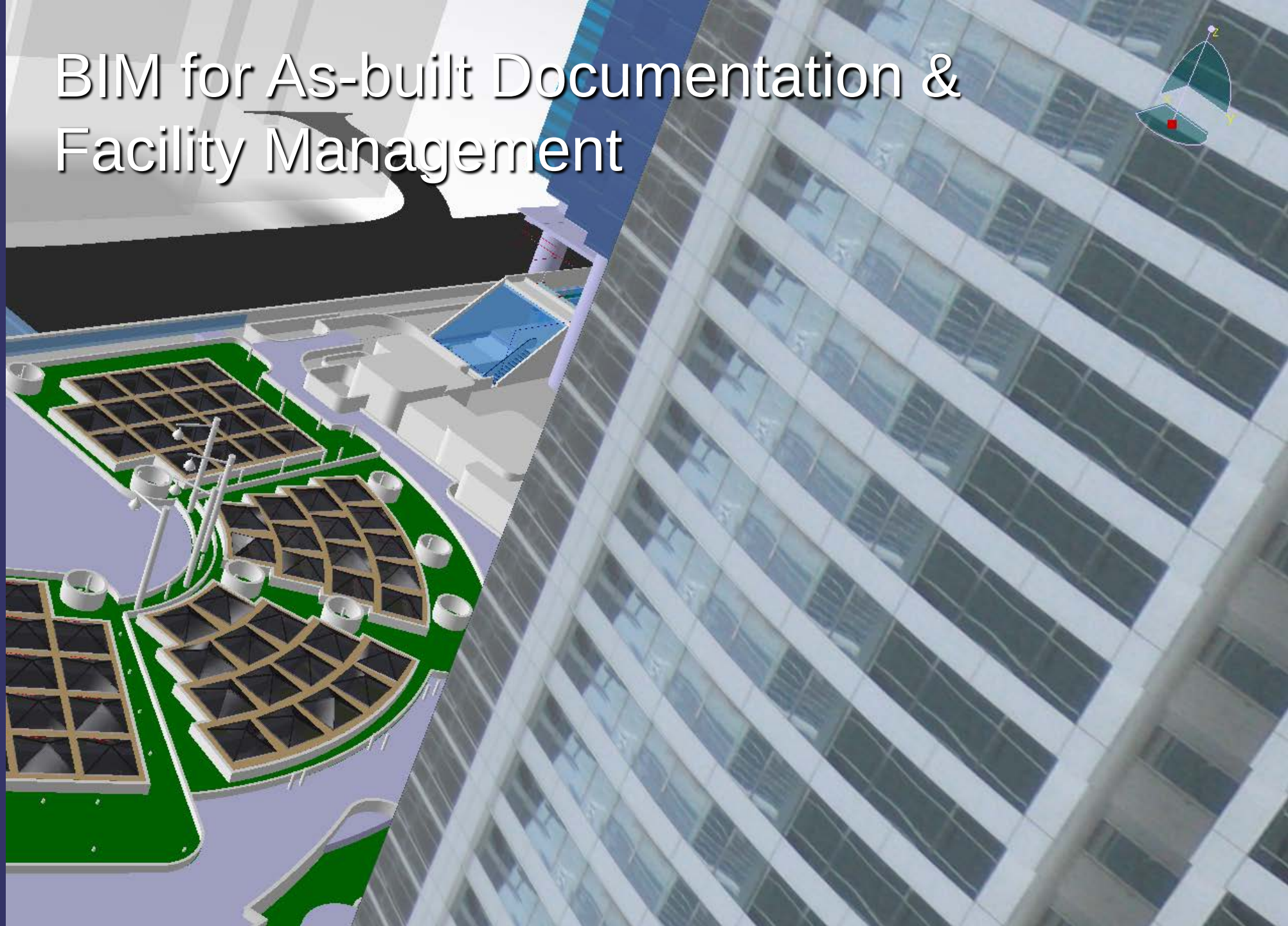


Primavera

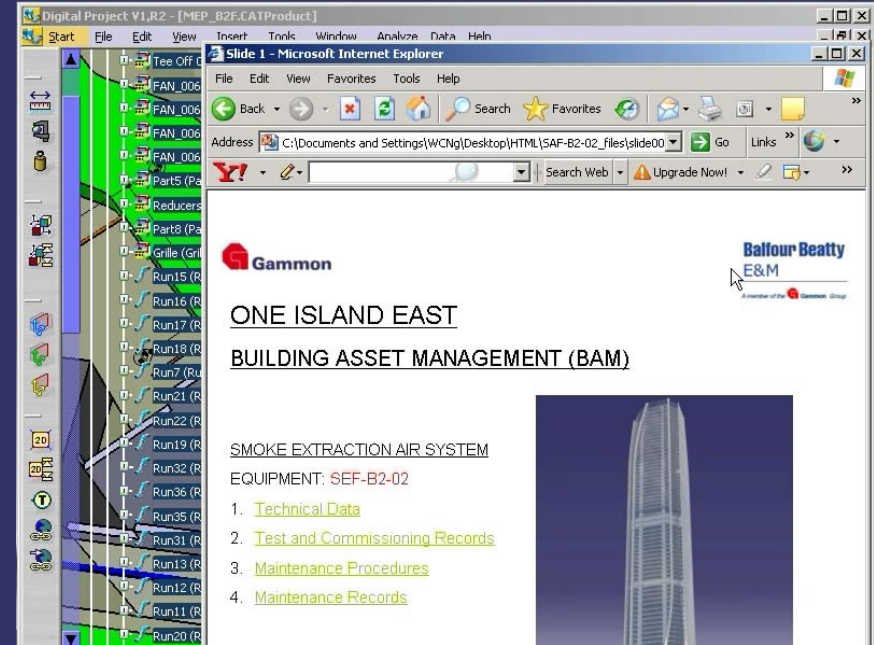


Digital Project

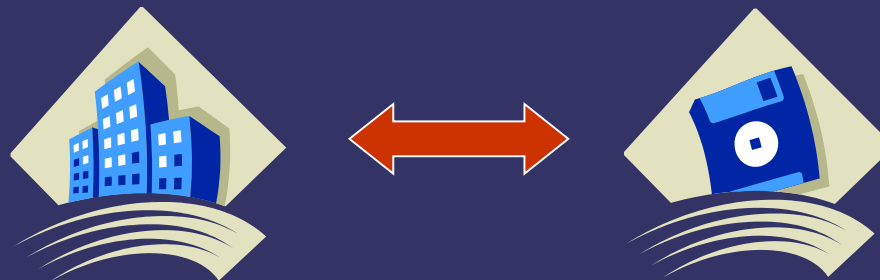
BIM for As-built Documentation & Facility Management



Data Linkage to BIM



2-way Interactive Data Query



BIM

e-Manual

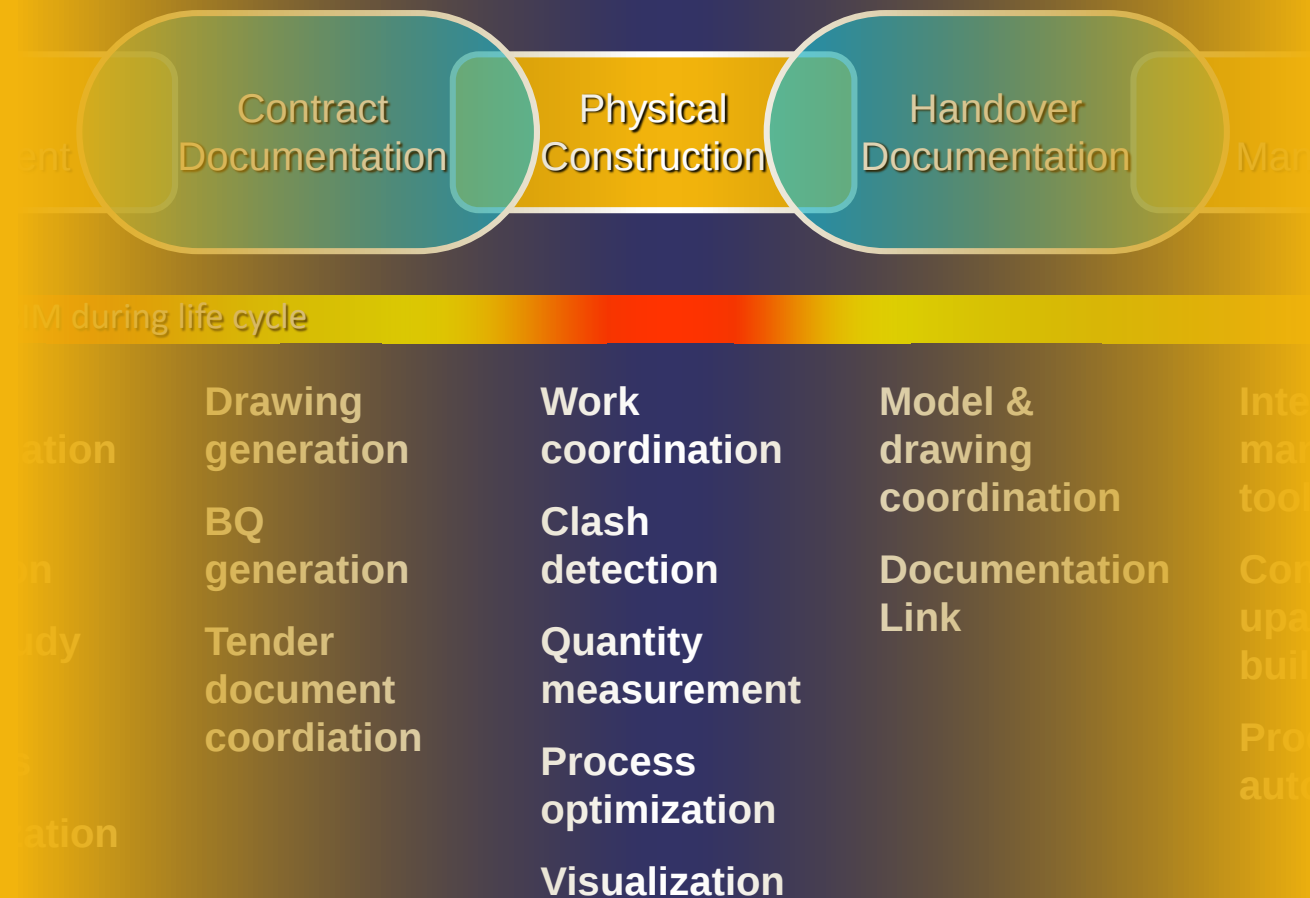
Current Achievements



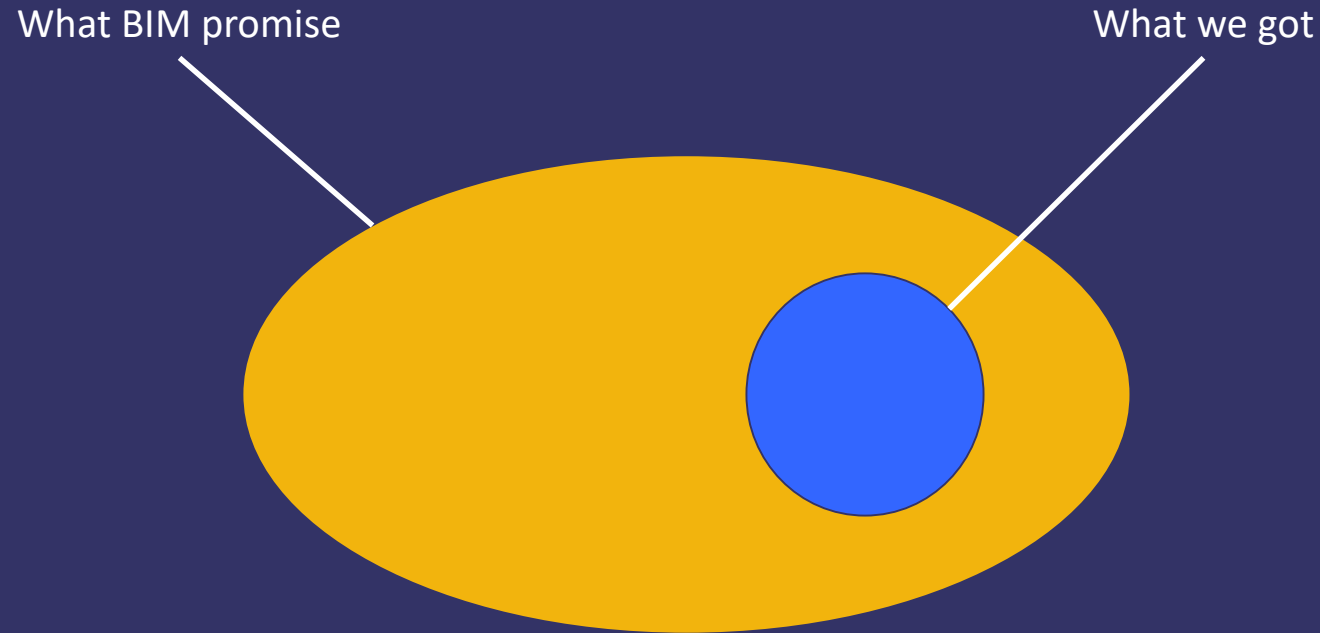
Theories and Practices

Collaboration in Virtual Environment

Building Life Cycle Management



Ideal vs. Practical



Discrepancy happens because of asymmetric ignorance between team members and practical constraints – shall be mitigated with experiences grow.

BIM in Practice

- Collaboration
- Coordination
- Contract Procurement
- Visualization
- Facility Management

Many questions

..... Not enough answers

THANK YOU

