

David Fung

Senior Associate, Aedas Ltd;

Chairman, BIM Task Force, Board of Practice, HKIA;

Vice Chairman, HKIBIM;

Chairman of AIAB

The Hong Kong Polytechnic University

Campus in the Shenzhen Virtual University Science Park

Location
Building Type

GFA Completion

Client
Architect
Structural Engineer
E/M Engineer

Shenzhen

Institutional – Theatre, laboratories, classrooms,

library, offices and adminstration

12,500 sq.m + 4,000 sq.m basement

End of 2009

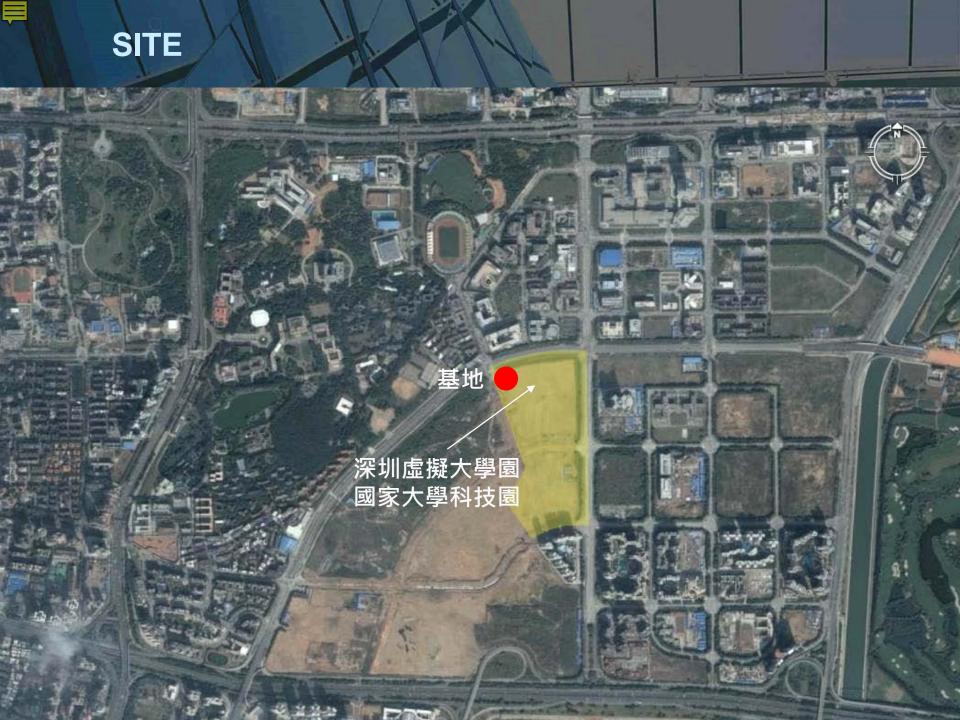
Hong Kong Polytechnic University

Aedas Ltd

Scott Wilson (Benaim (China) Ltd.)

JRP

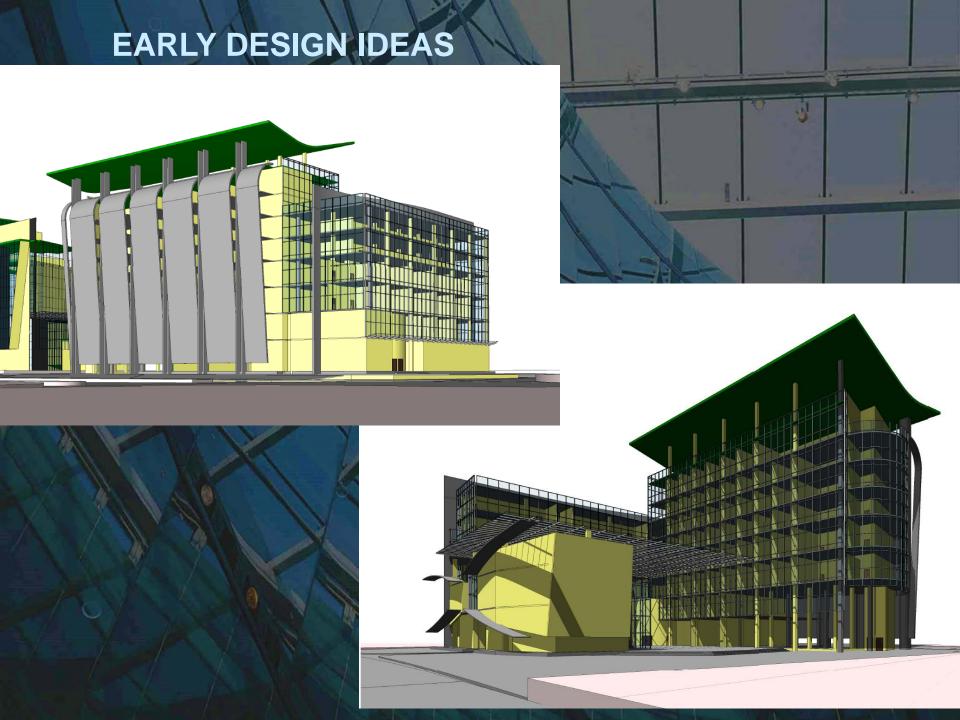


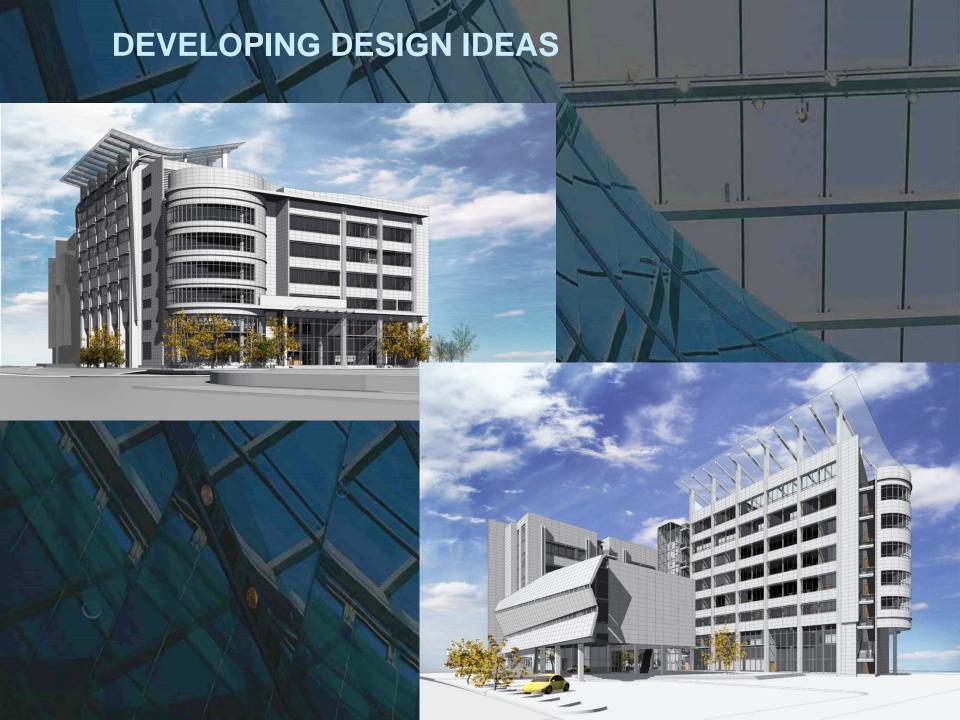




Use of Building Information Modeling (BIM) for the PolyU project

- 1 Design Ideas
- 2 Visualization & Presentation
- 2 Co-ordination/ Collaboration
- 3 Drawing Production
- 4 Construction





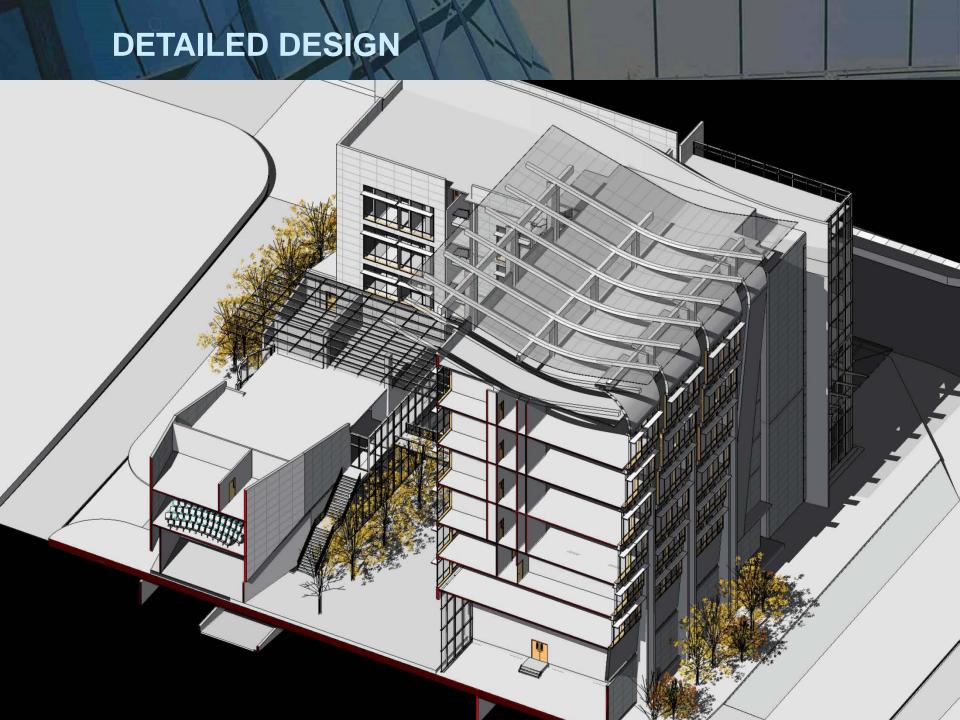




PRESENTING DESIGN IDEAS



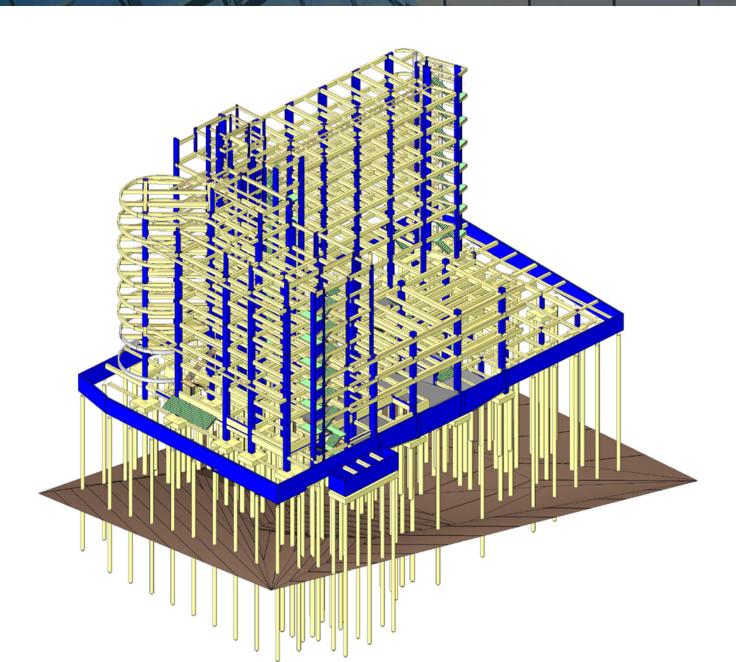




ARCHITECTURAL CO-ORDINATION



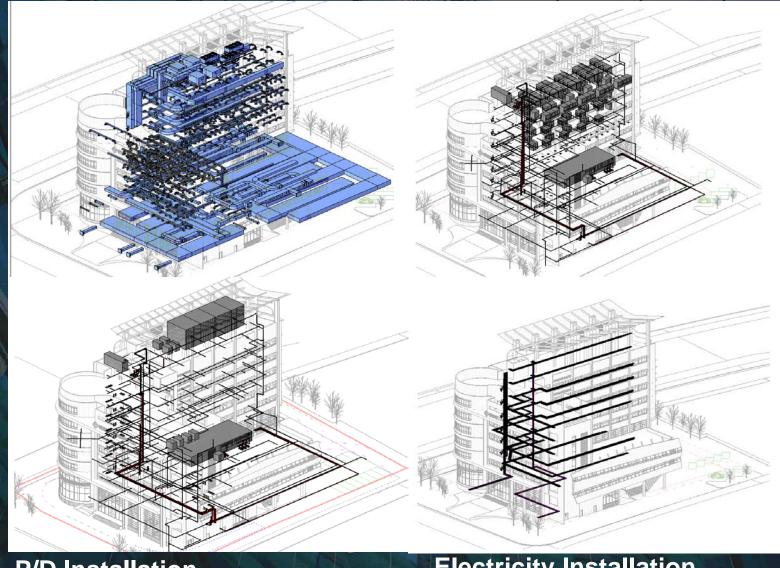
STRUCTURAL DESIGN MODEL



BUILDING SERVICES CO-ORDINATION

HVAC Installation

Fire Services Installation



P/D Installation

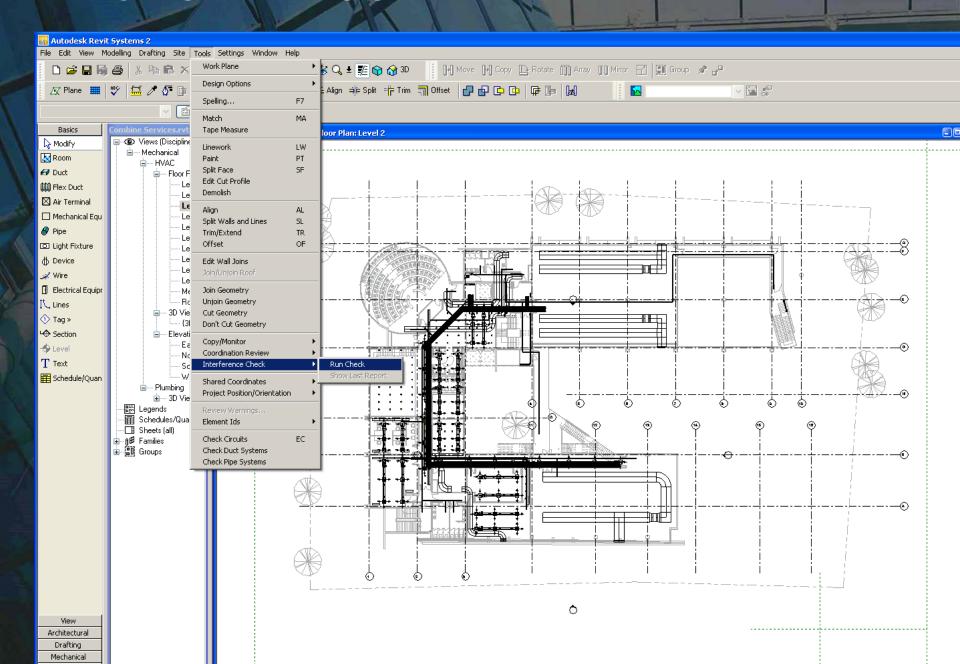
Electricity Installation

SPECIAL CO-ORDINATION - LABORATORIES

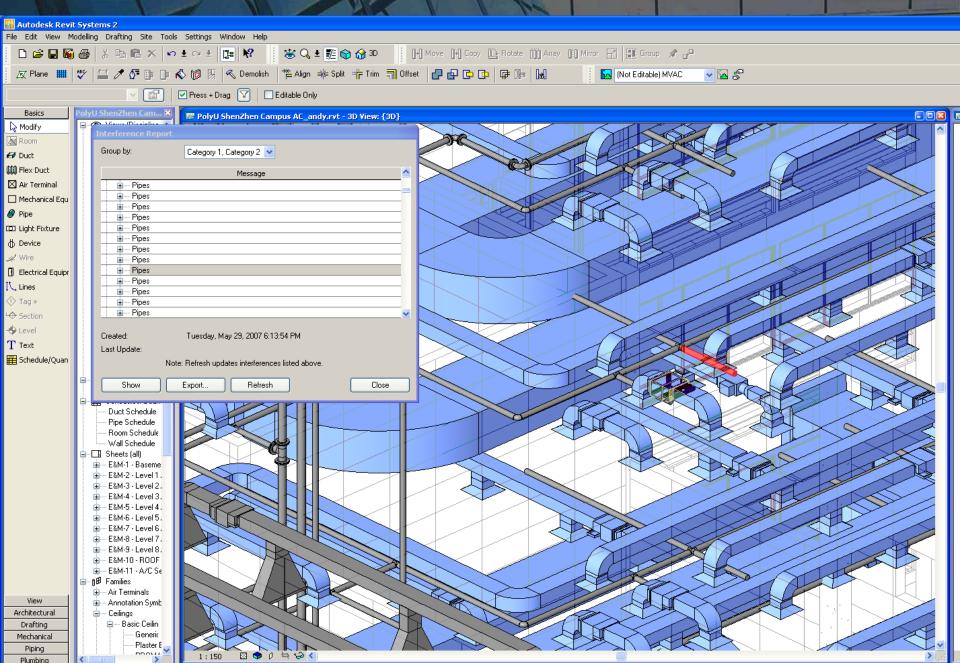
CO-ORDINATED DETAILED DESIGN



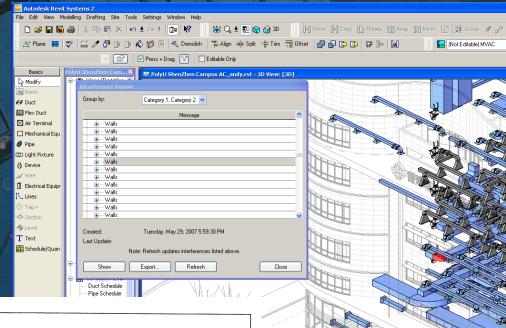
CLASH ANALYSIS

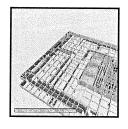


CLASH ANALYSIS



CLASH ANALYSIS REPORT





Name Distance Status Clash Point Date Created Approved By Clash31 -0.150m New

-74.537m, 2.437m, -11.450m 2006/7/17 03:37:34

Item 1

Path File ->File ->Basement 03.nwc -><No level> ->L2b1 500 x 700 ->L2b1 500 x 700 ->Solid

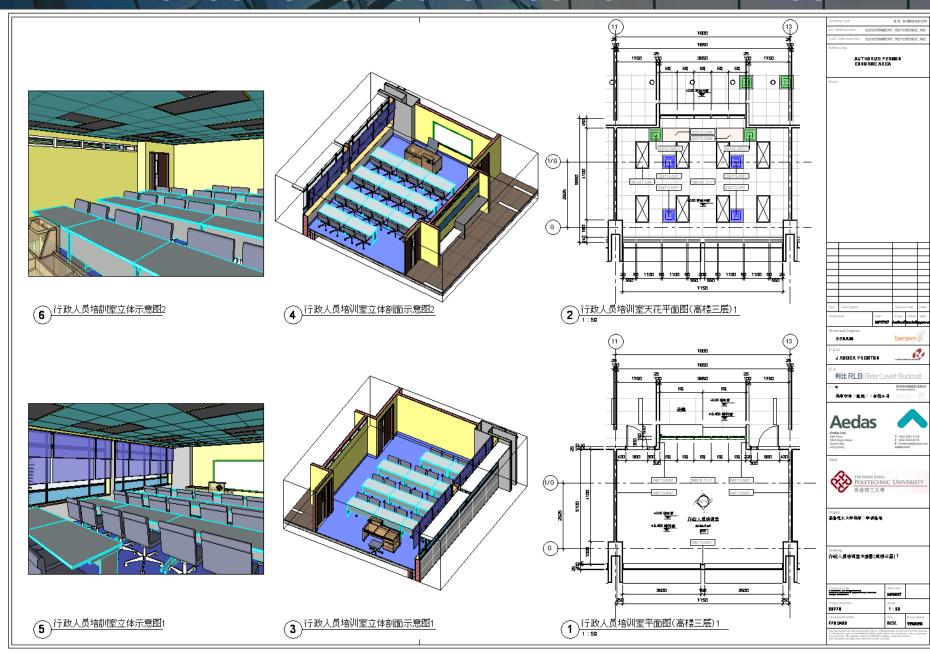
Item 2

Entity Handle 2AD6

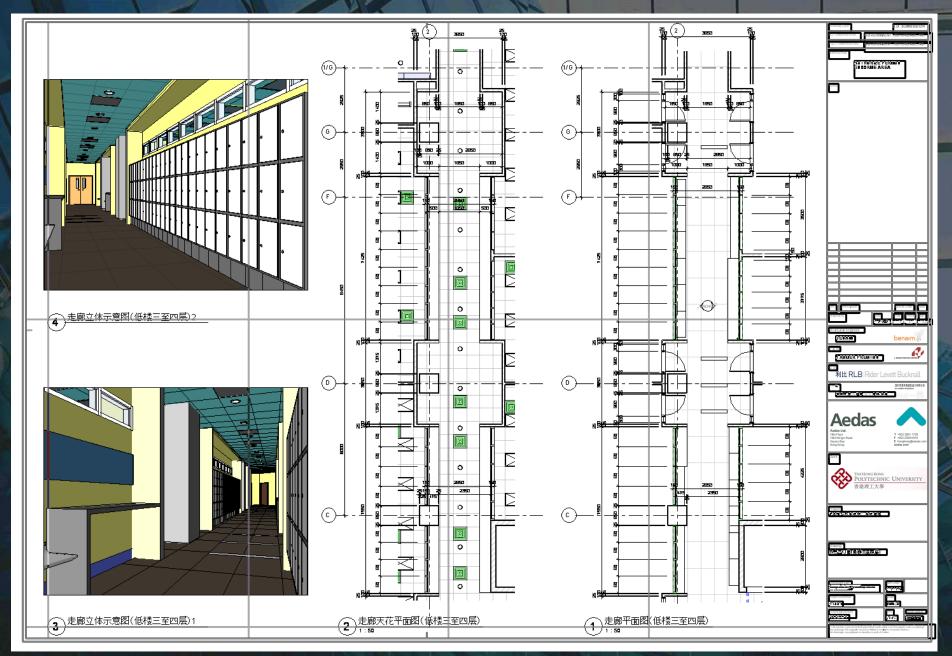
Path File ->File ->B3HVAC_Duct.nwd ->H-Ductwork-G -

>Duct

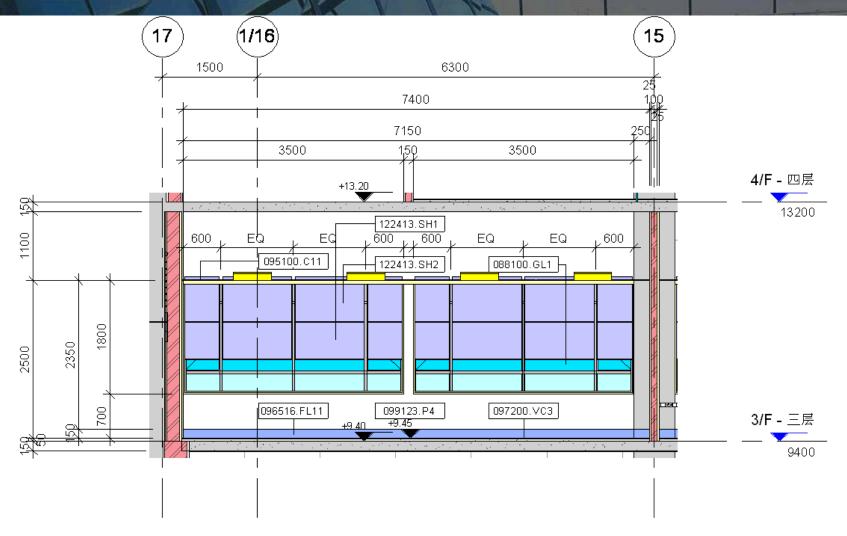
PRODUCTION OF CONSTRUCTION DRAWINGS



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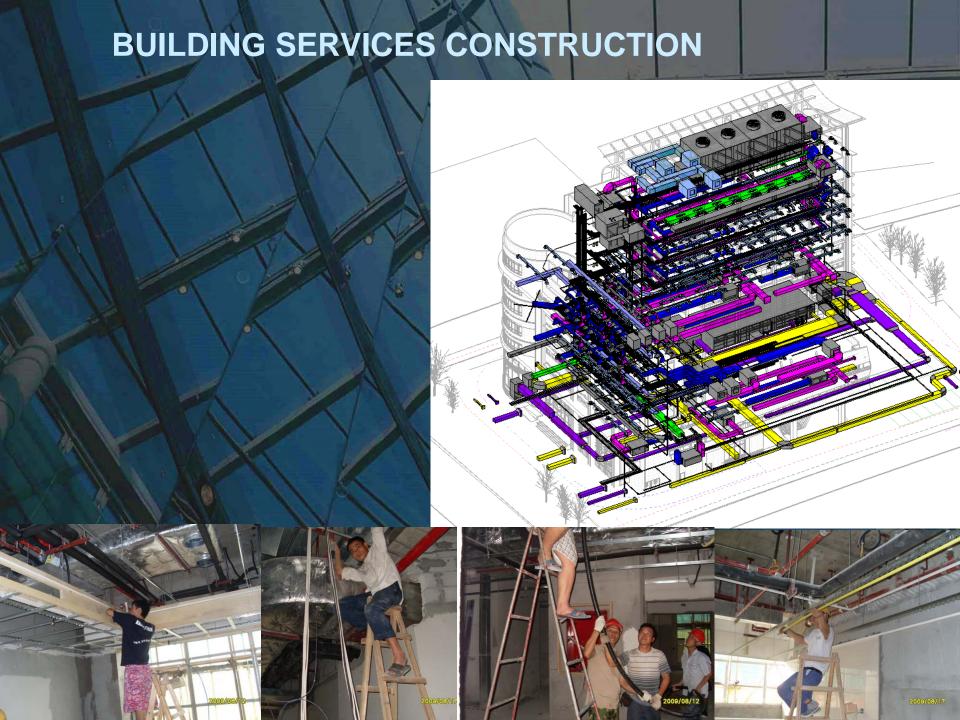


行政人员培训室立面图(高楼三层)6 1:50

2







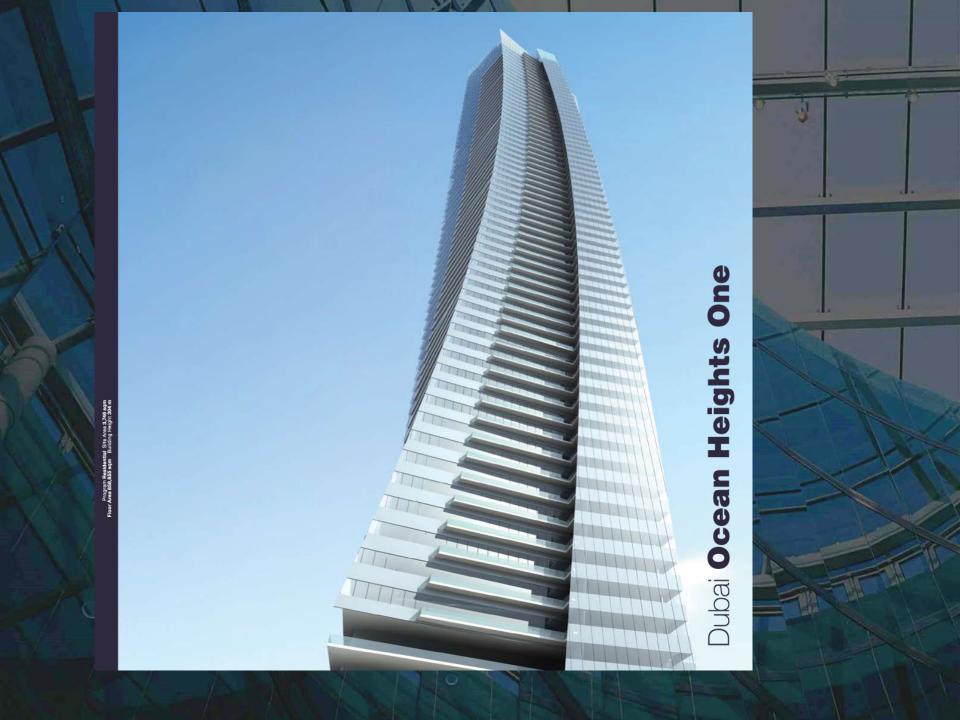
CONSTRUCTION

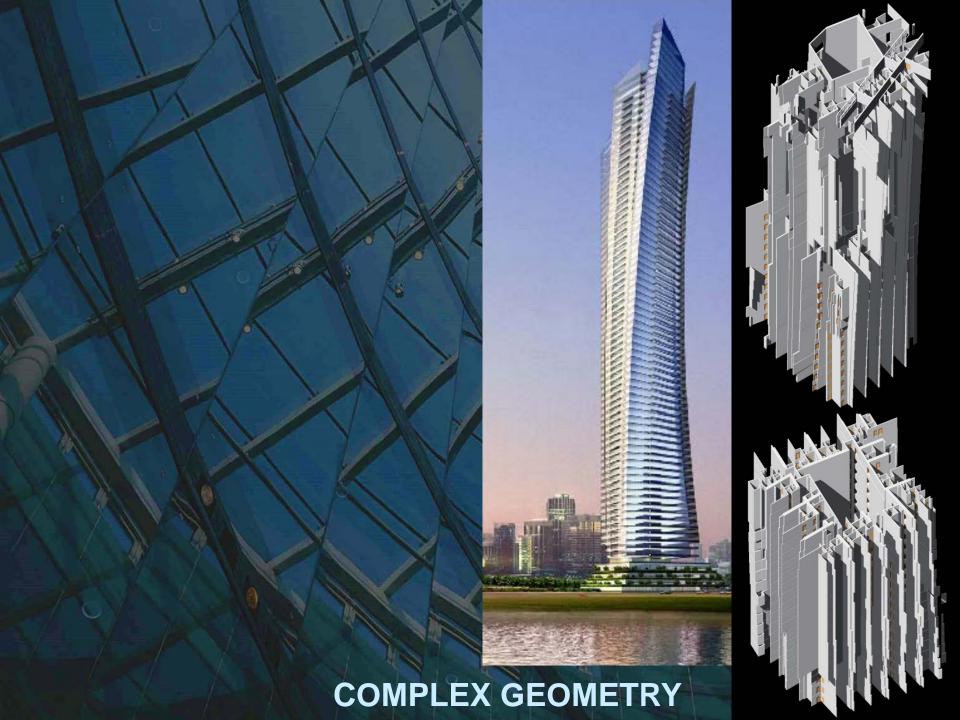


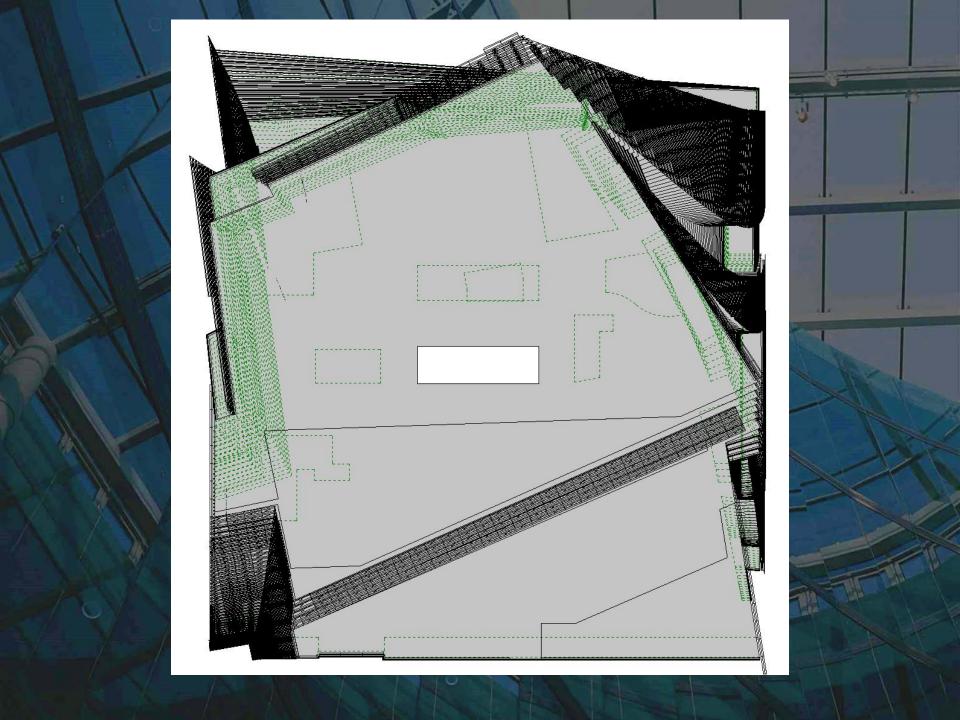


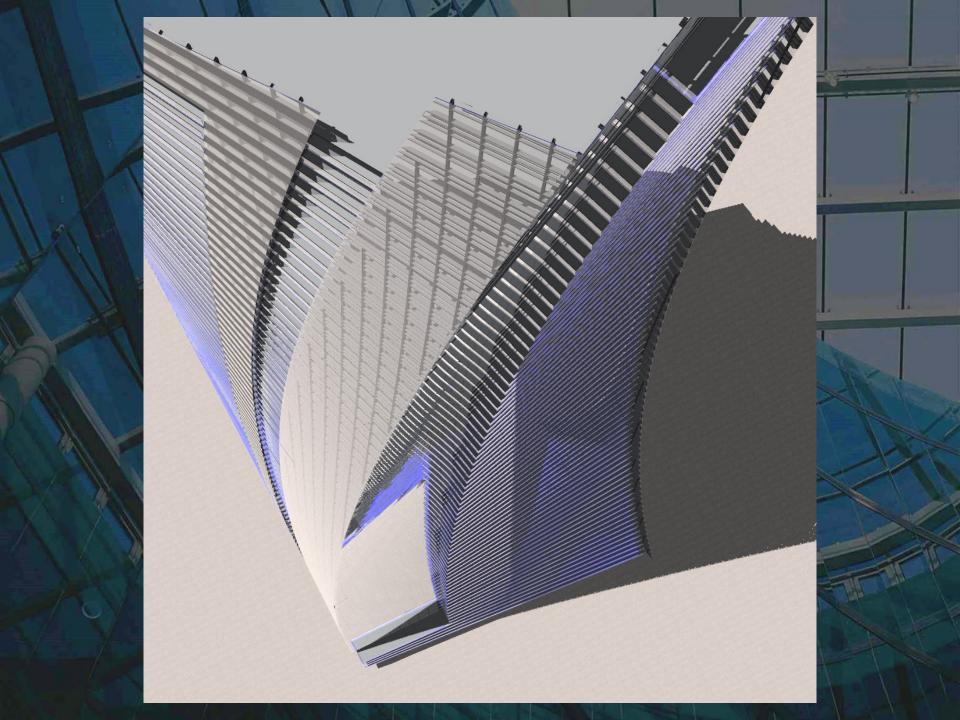
DEVELOPMENT

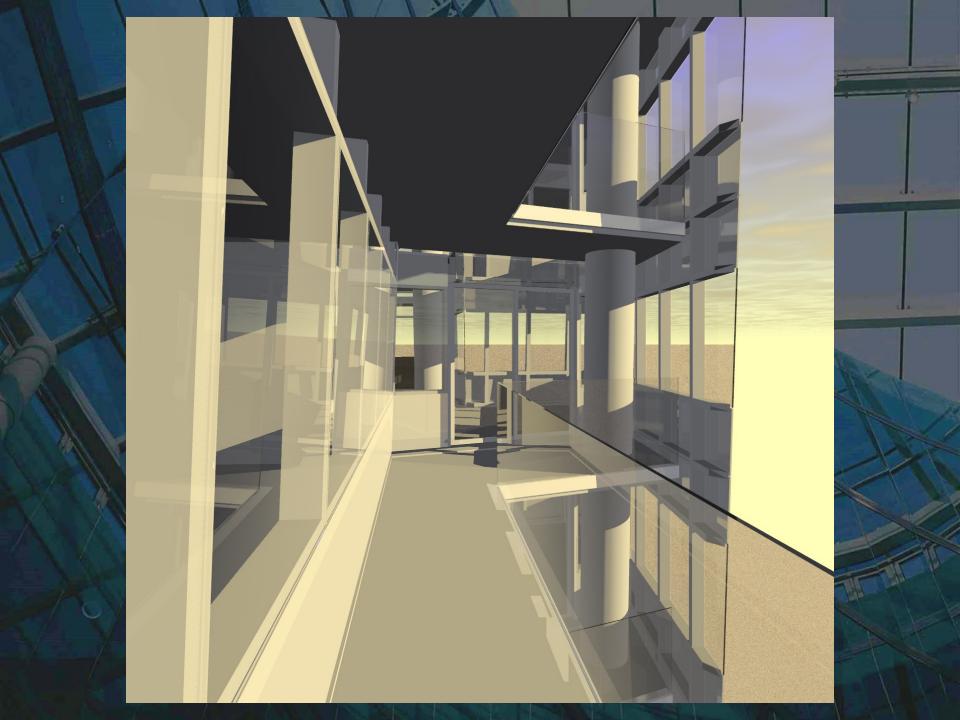


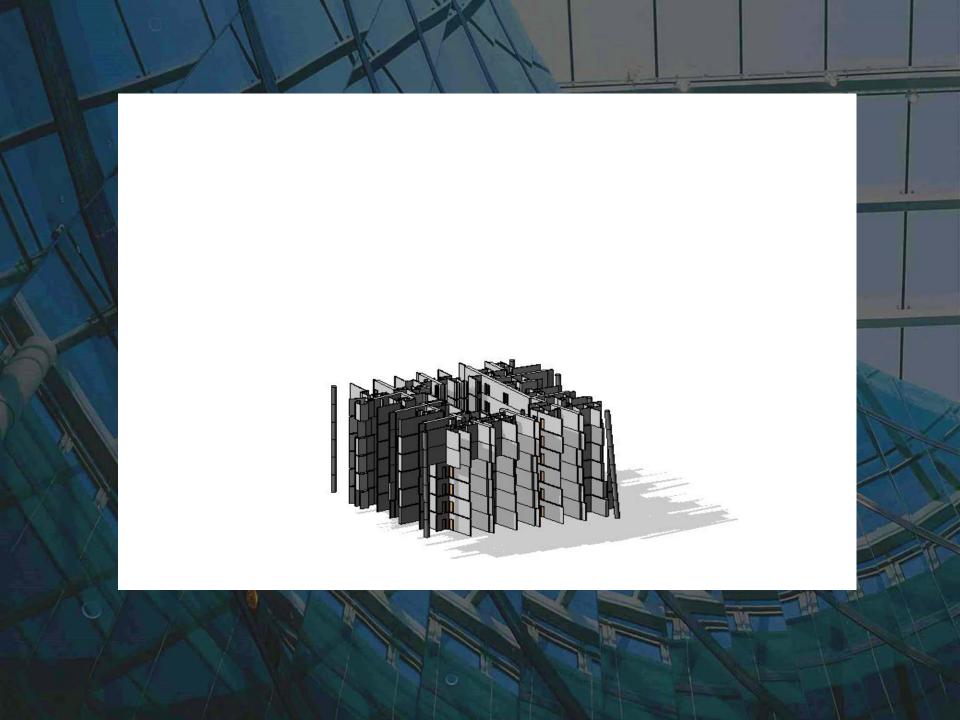


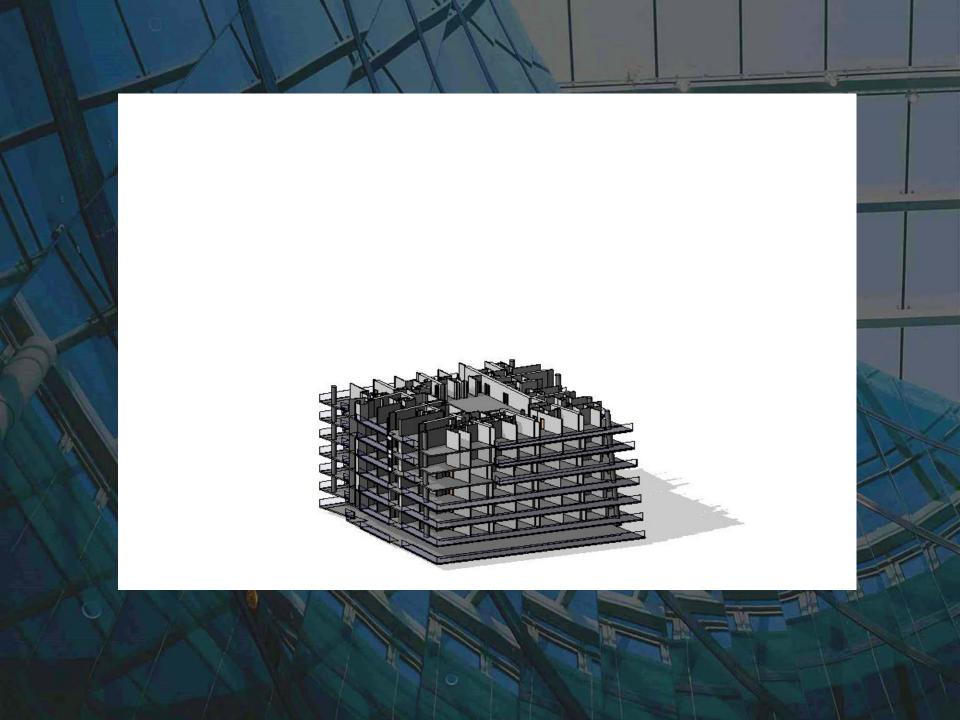


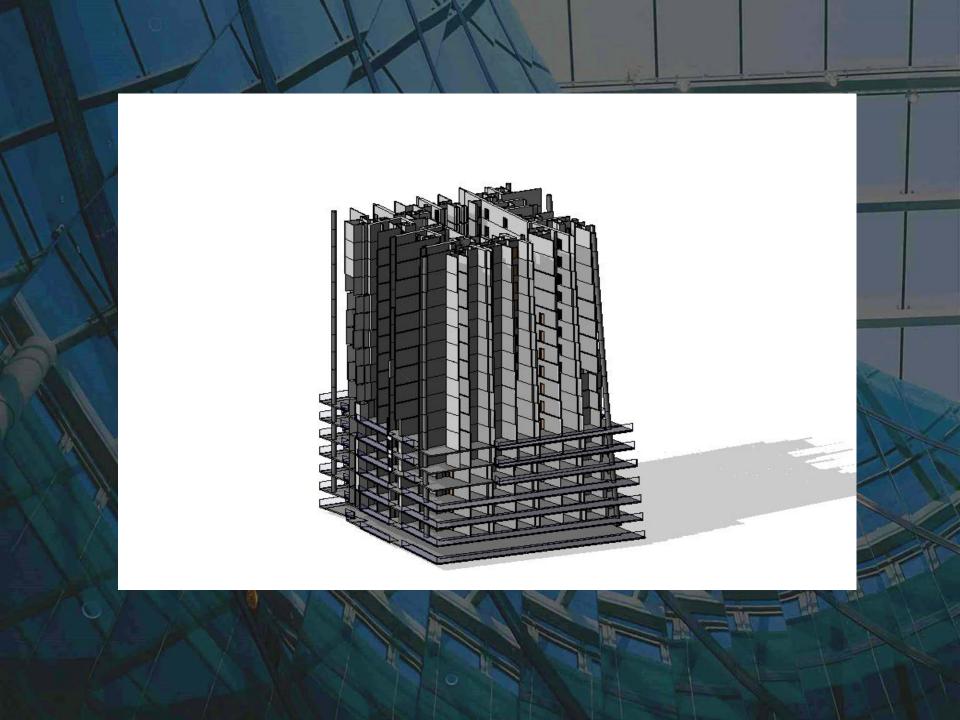


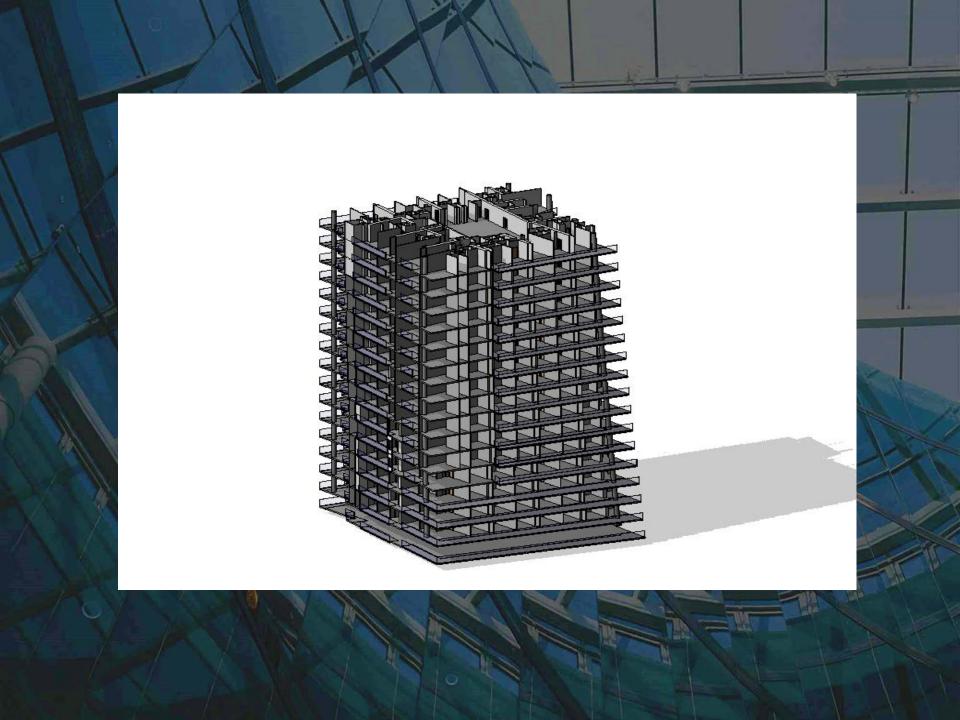


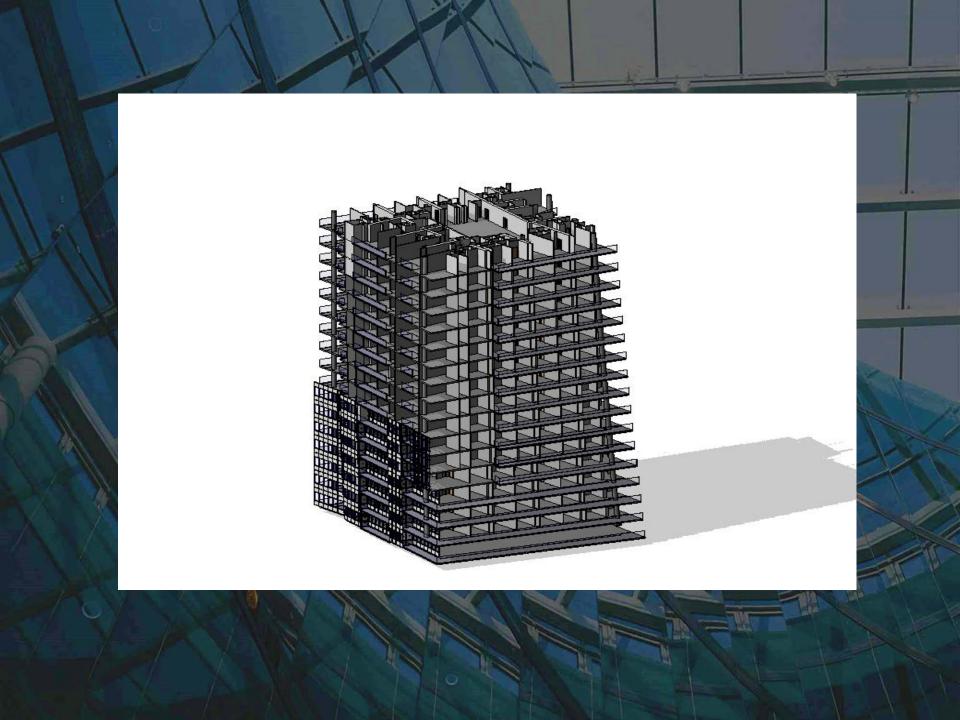


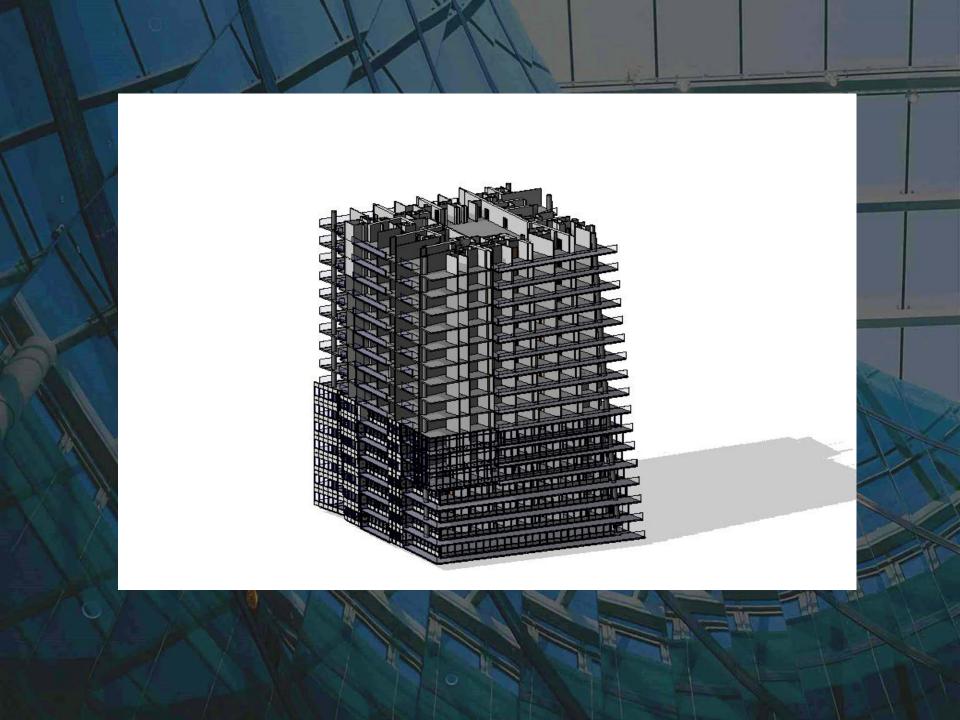


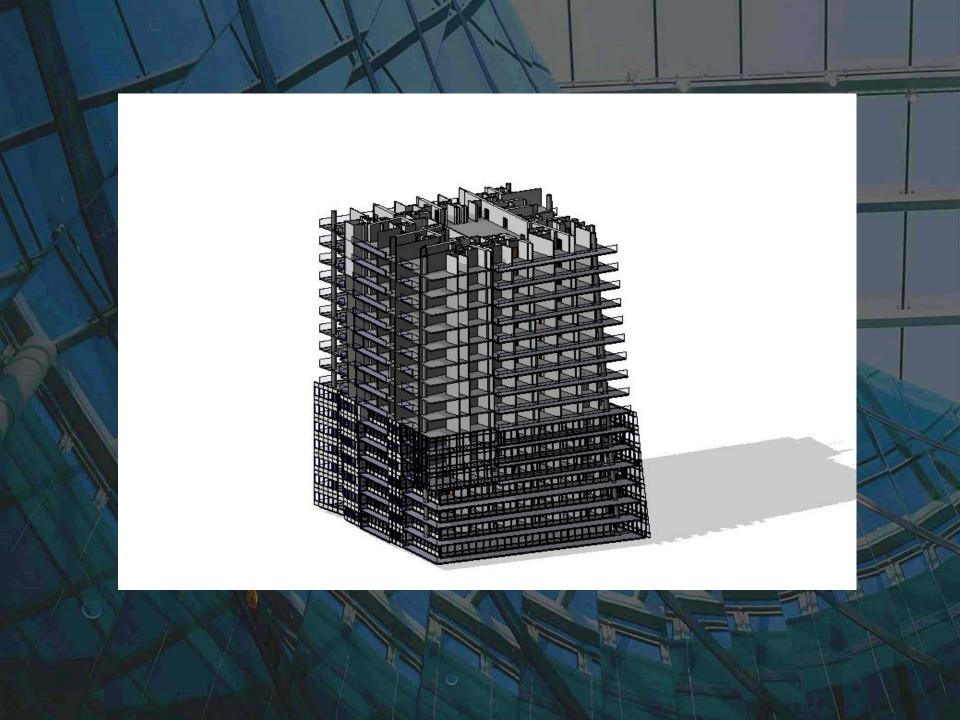


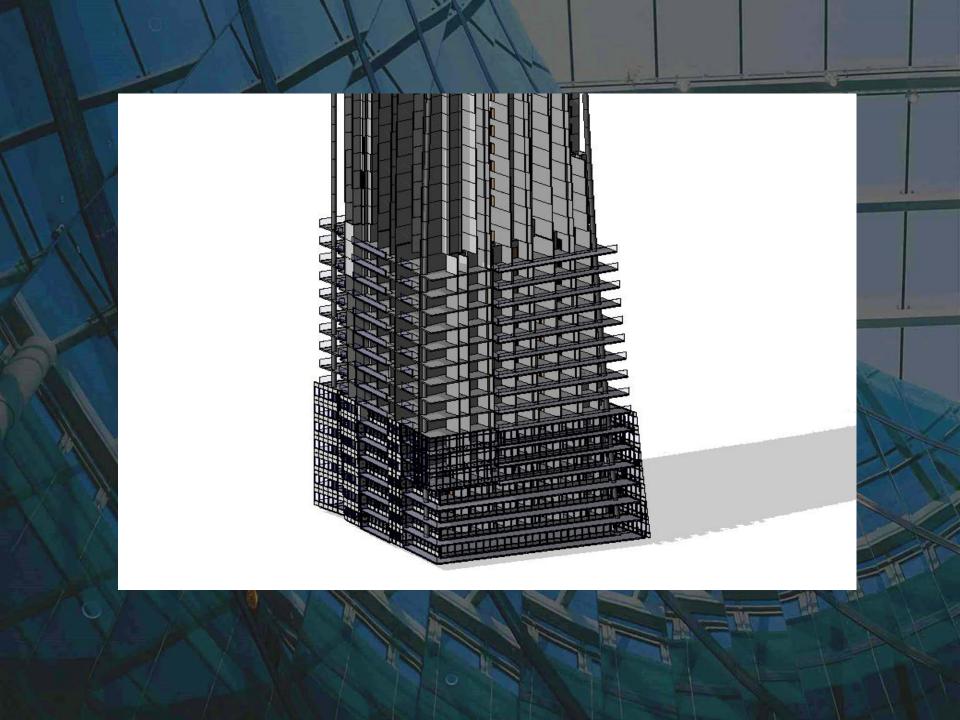


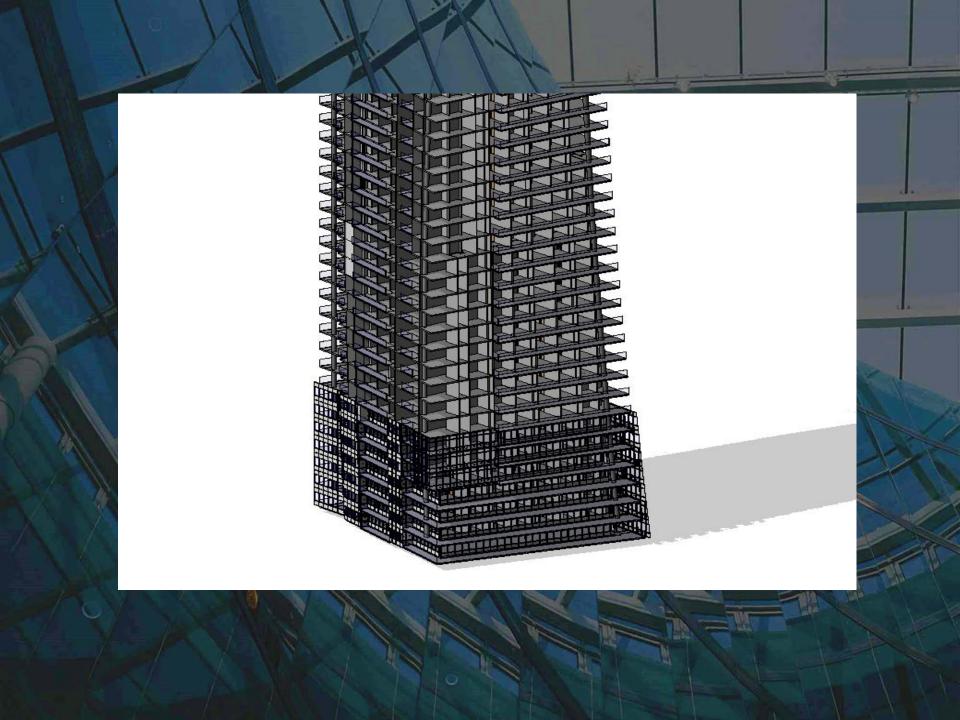


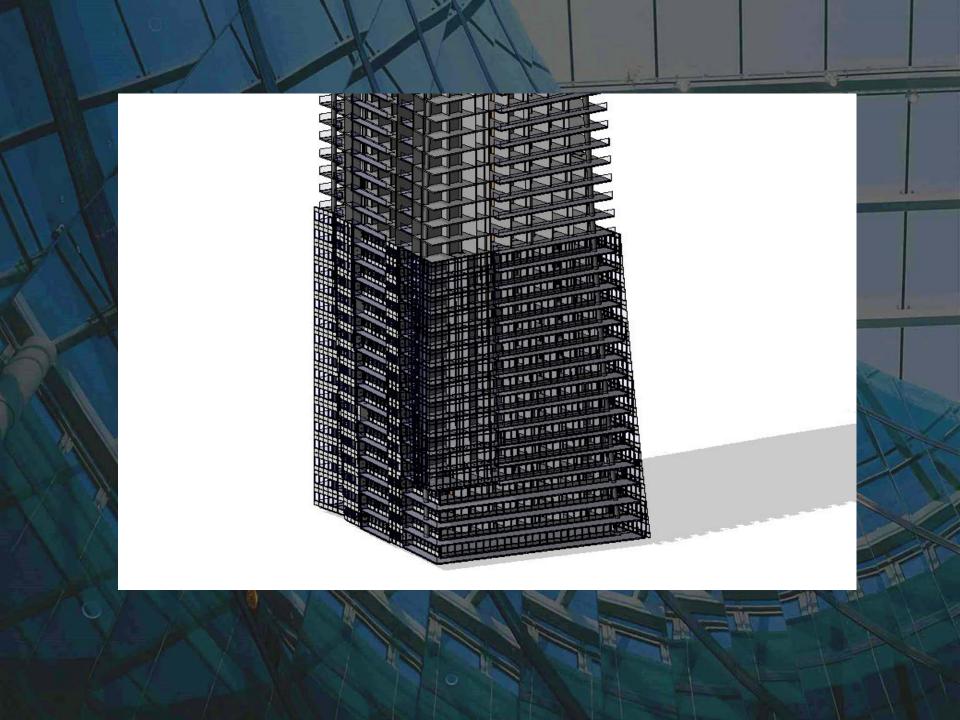






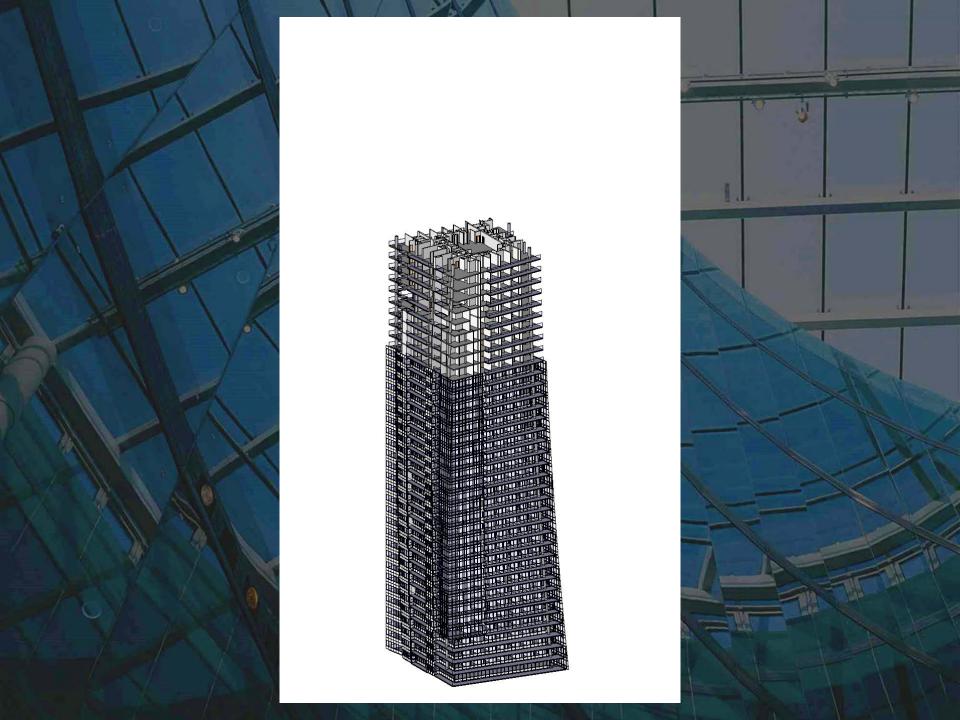




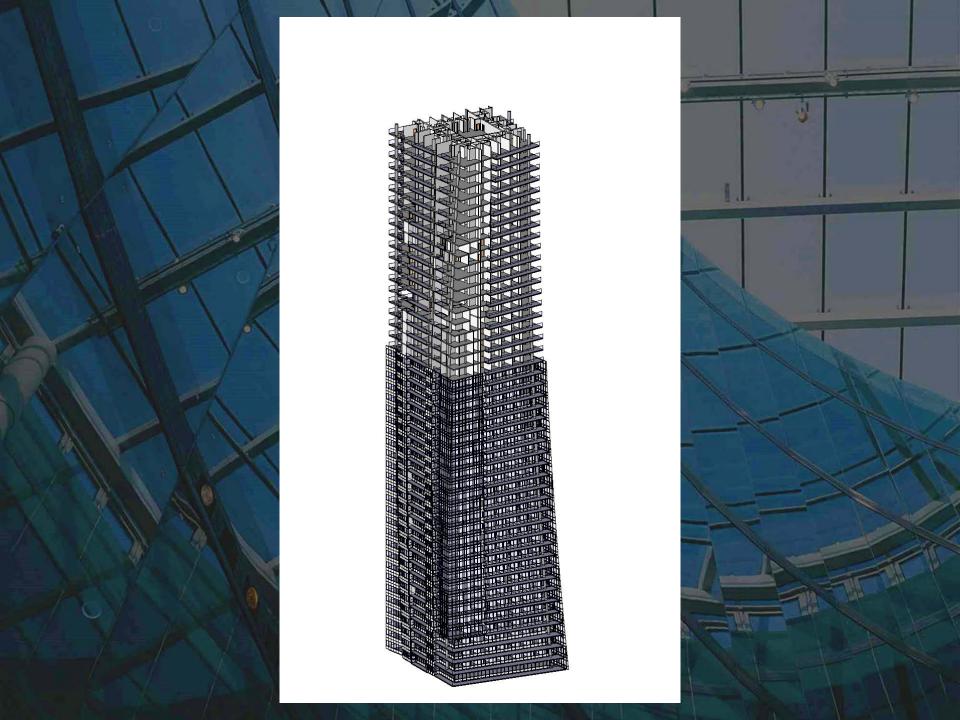










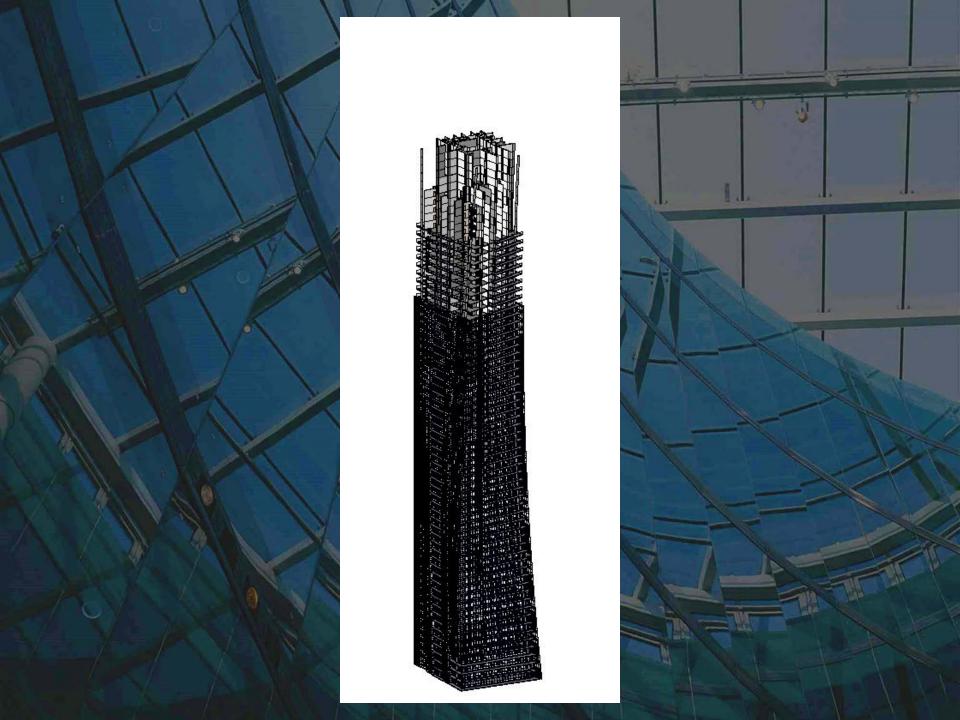


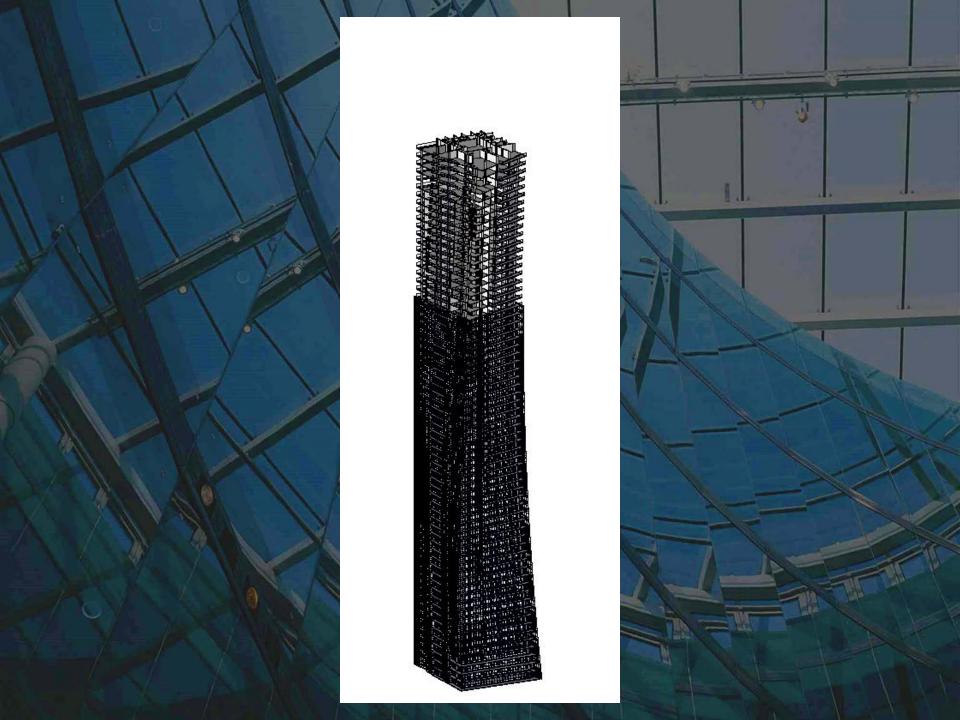


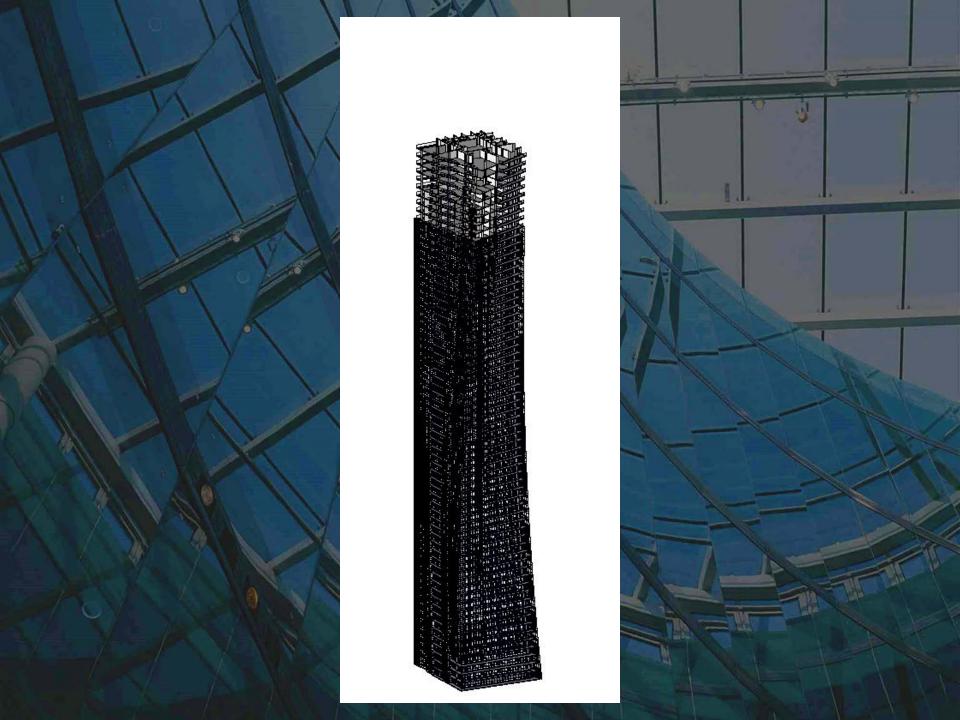


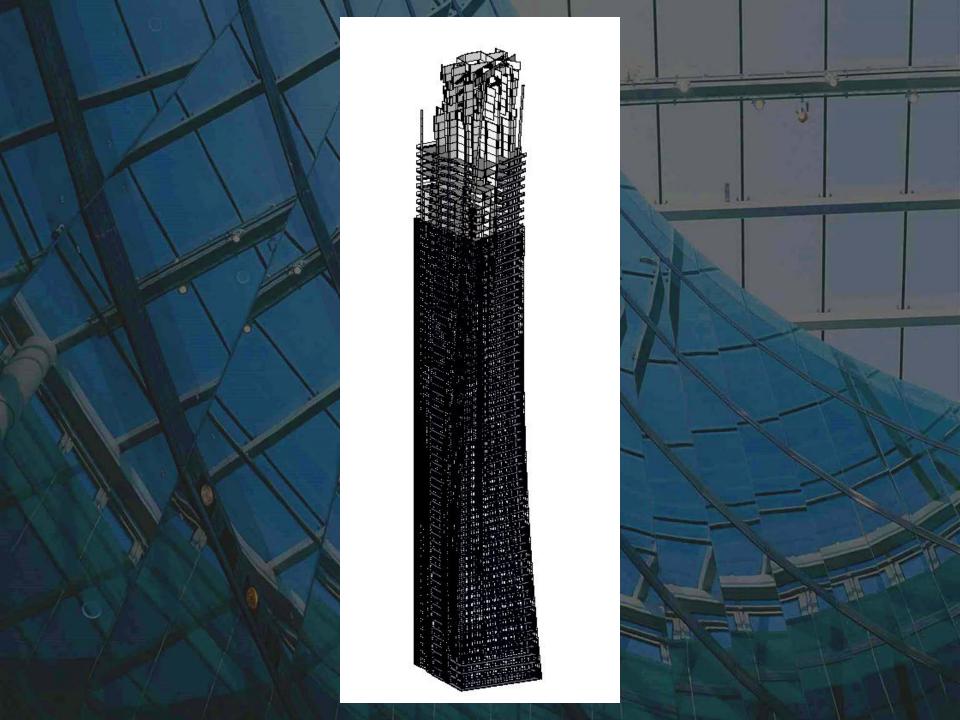


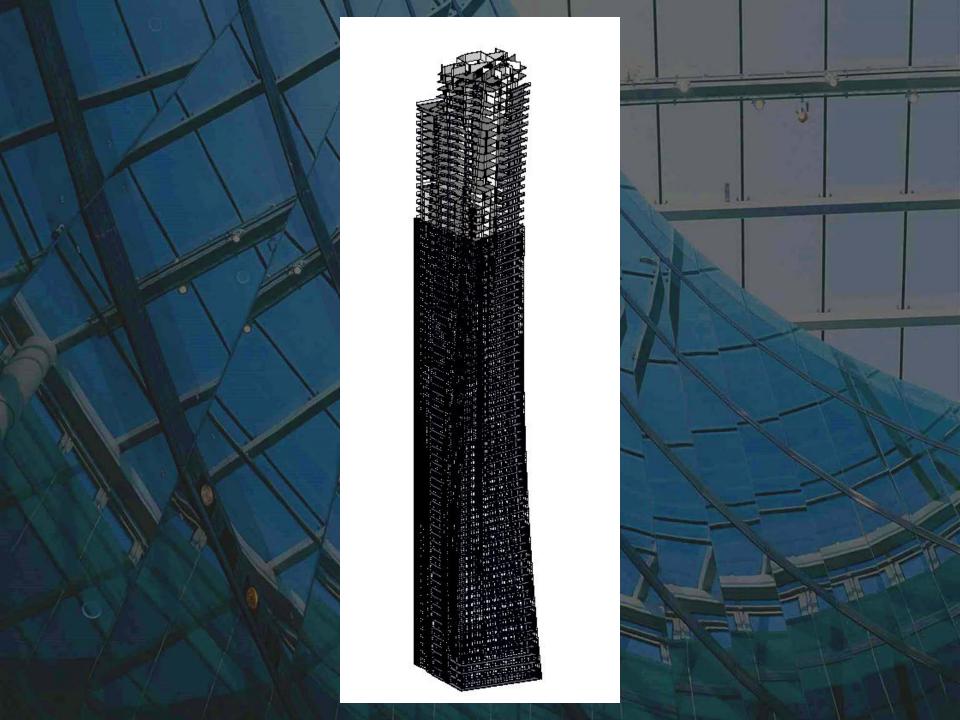


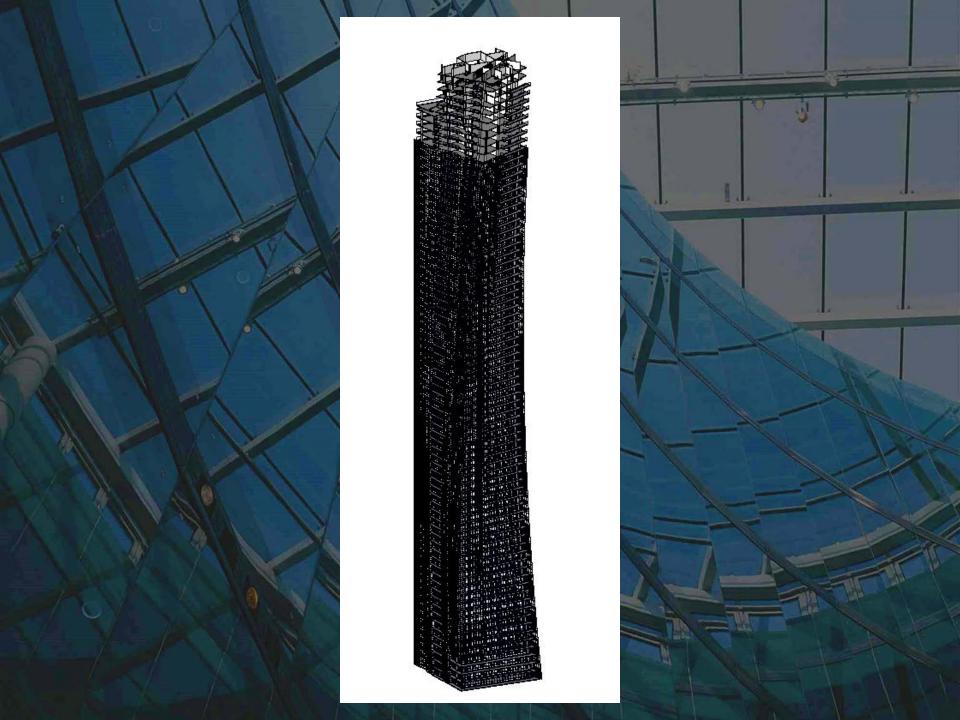




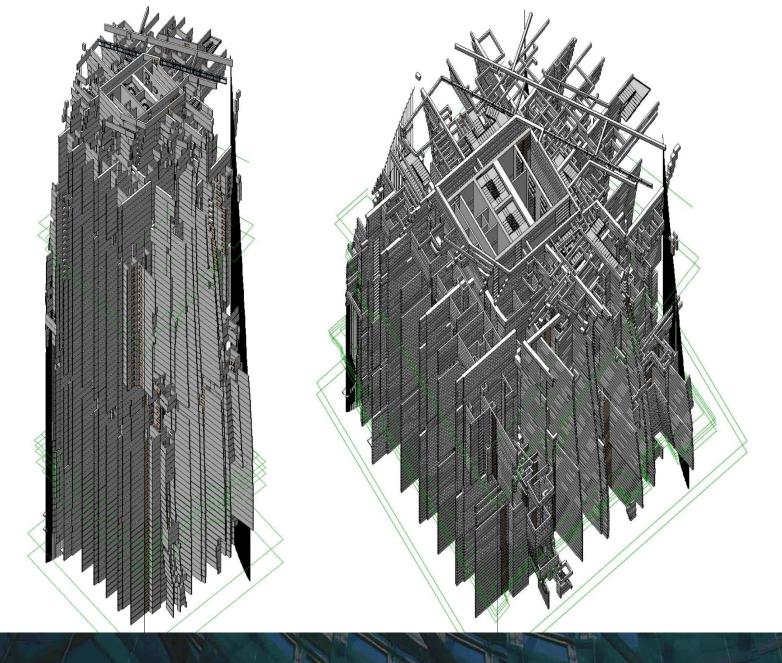




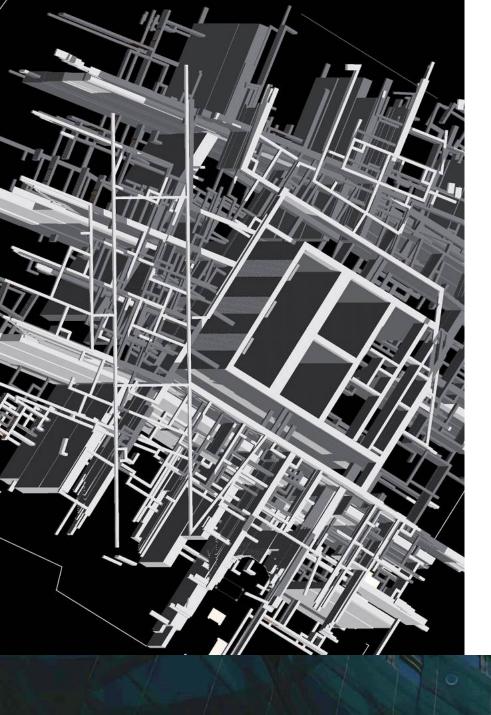


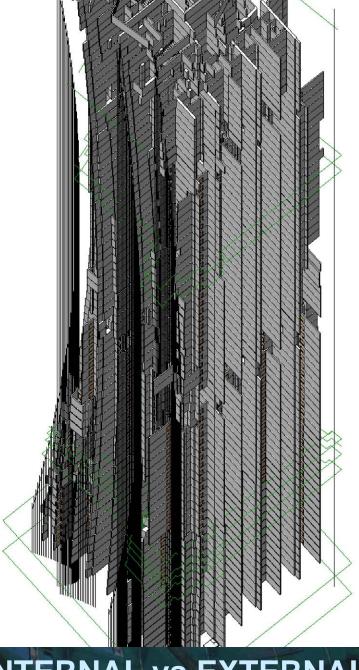




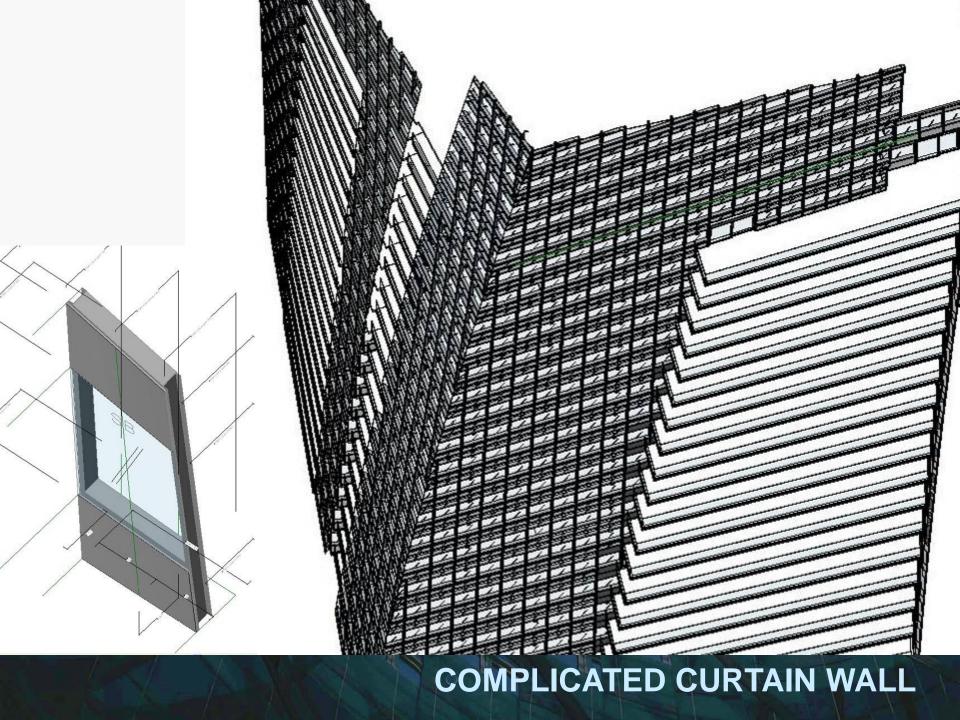


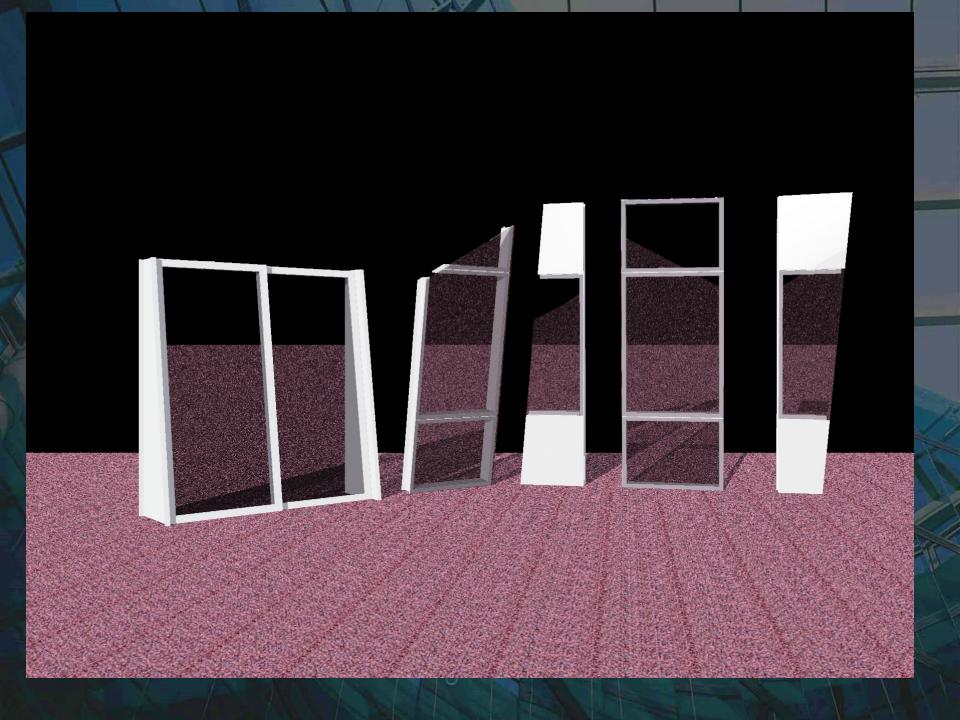
VERTICAL CO-ORDINATION

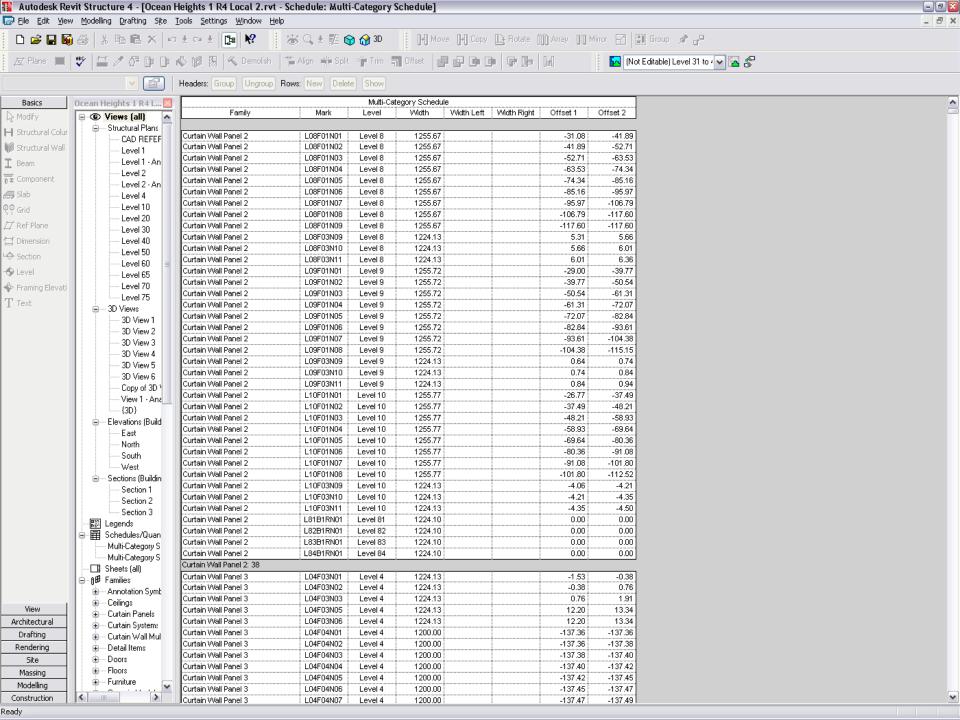


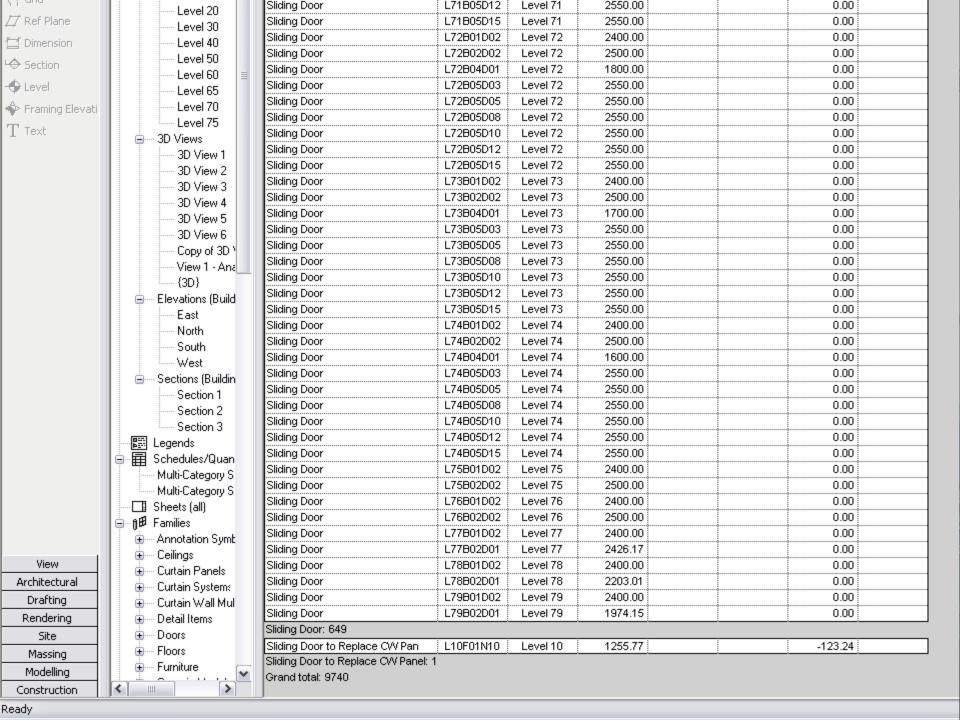


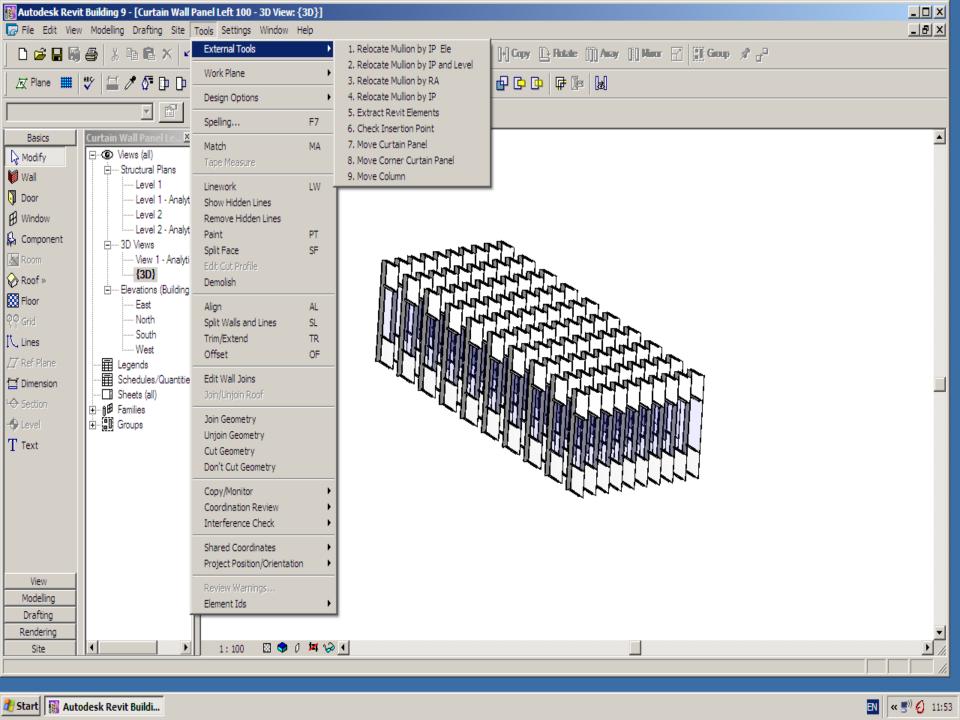
INTERNAL vs EXTERNAL

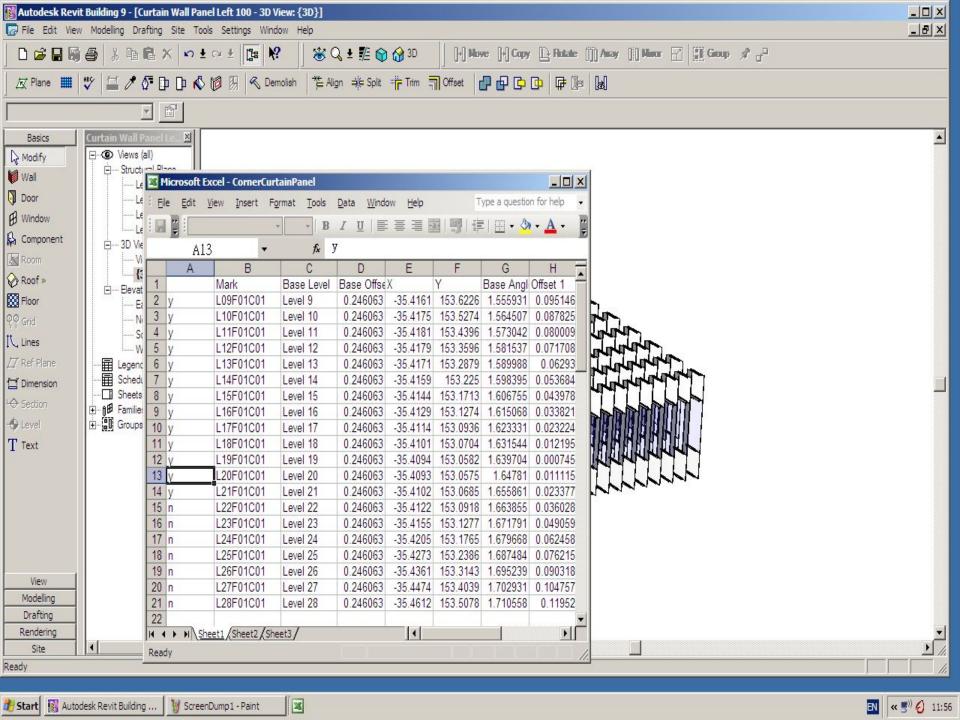


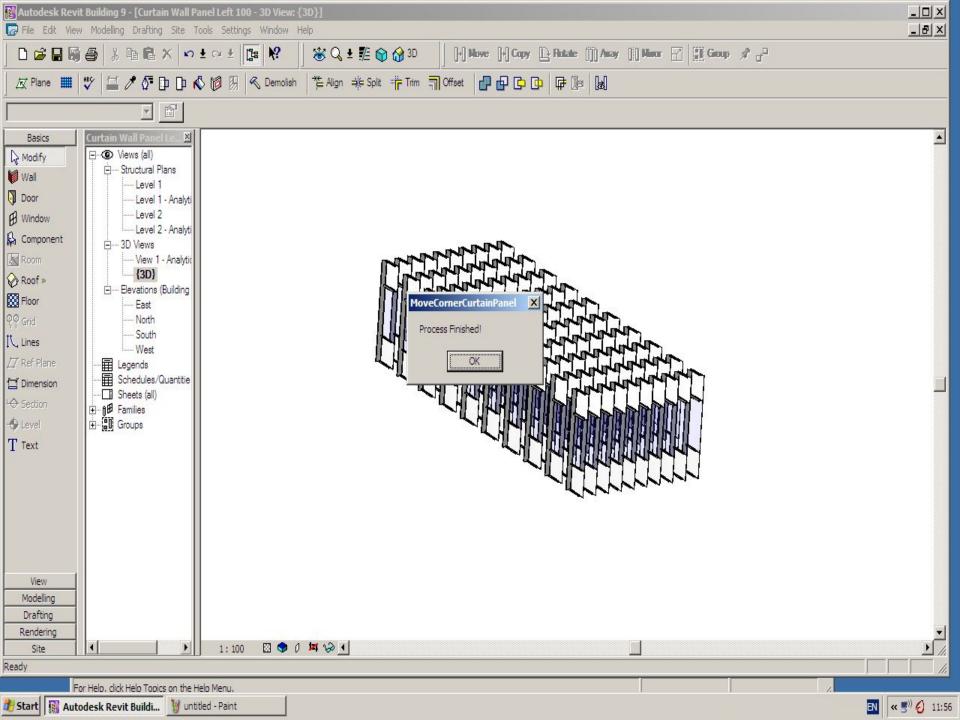


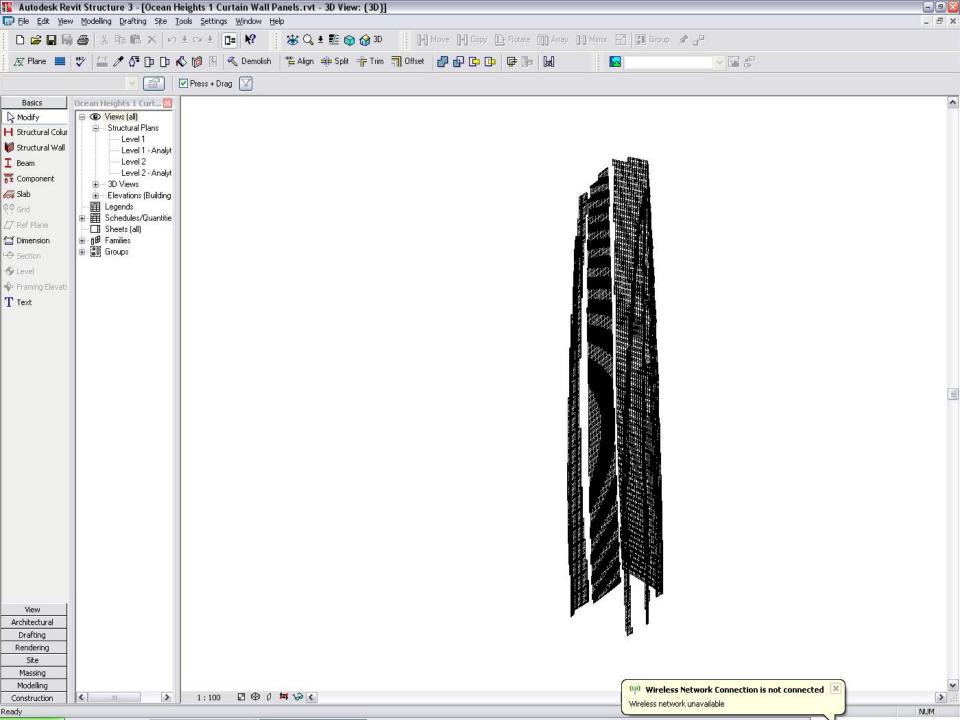














Challenges from the Technology to the Industry (Questions I posted during HKIA BIM Seminar Jan 2007)

- Participation of all participants
- Redefinition of roles of all Building Industry Participants
- Project Delivery Time
- Fee Structure
- Standard Contract Provision position of BIM model
- Contractual Relationship
- Other supports Government, Professional Bodies, Education
- BIM Authorities Standards and Certification
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