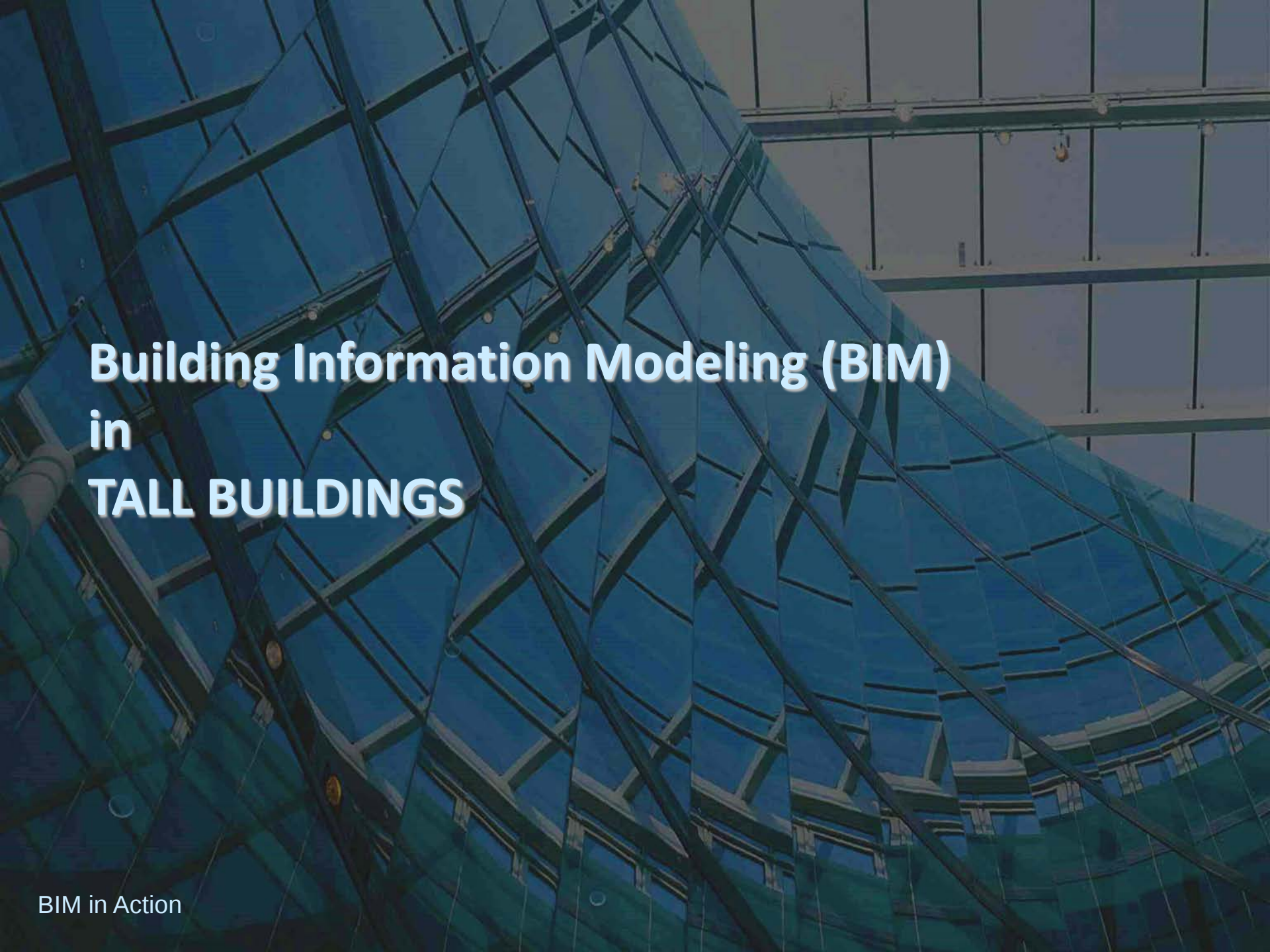
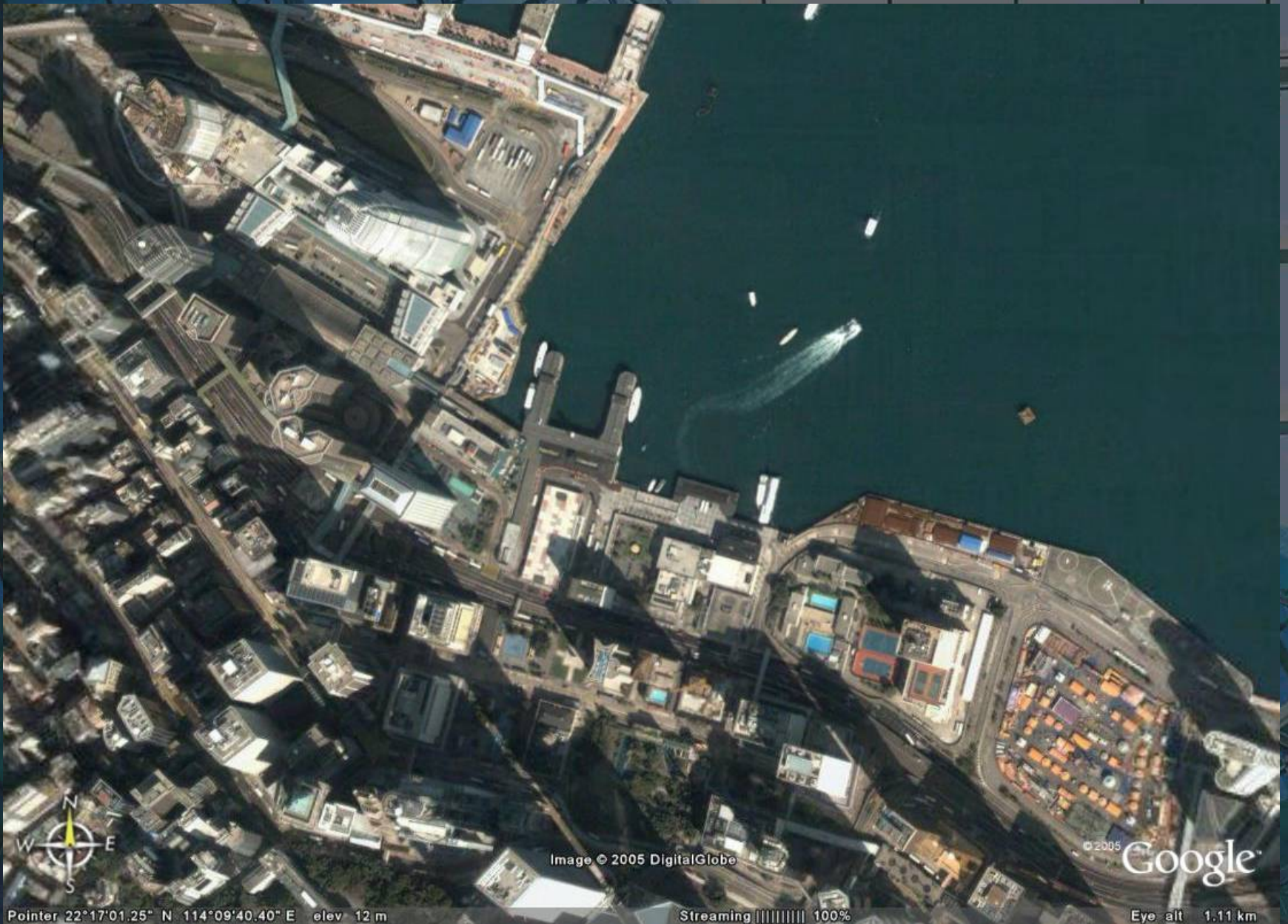
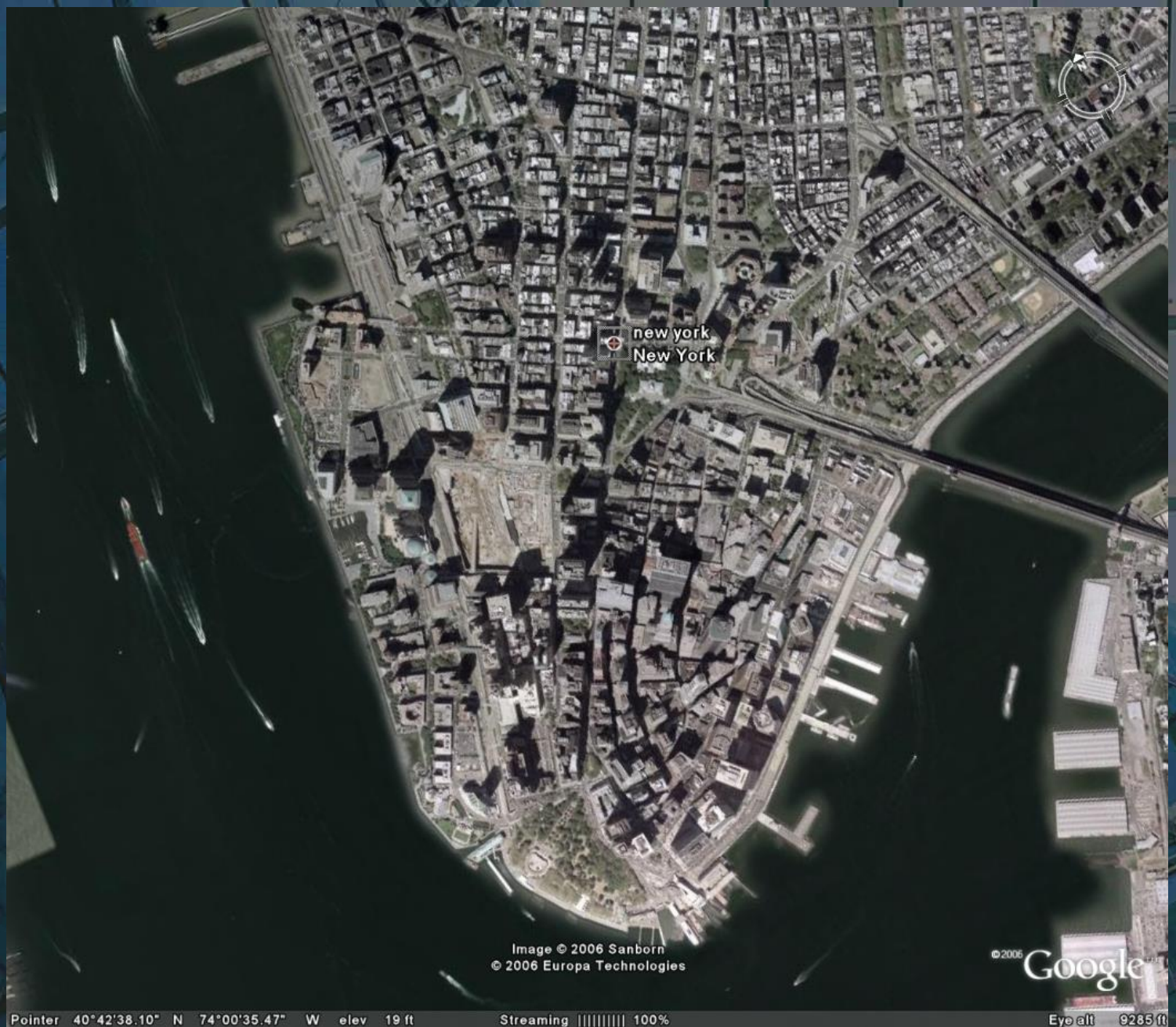




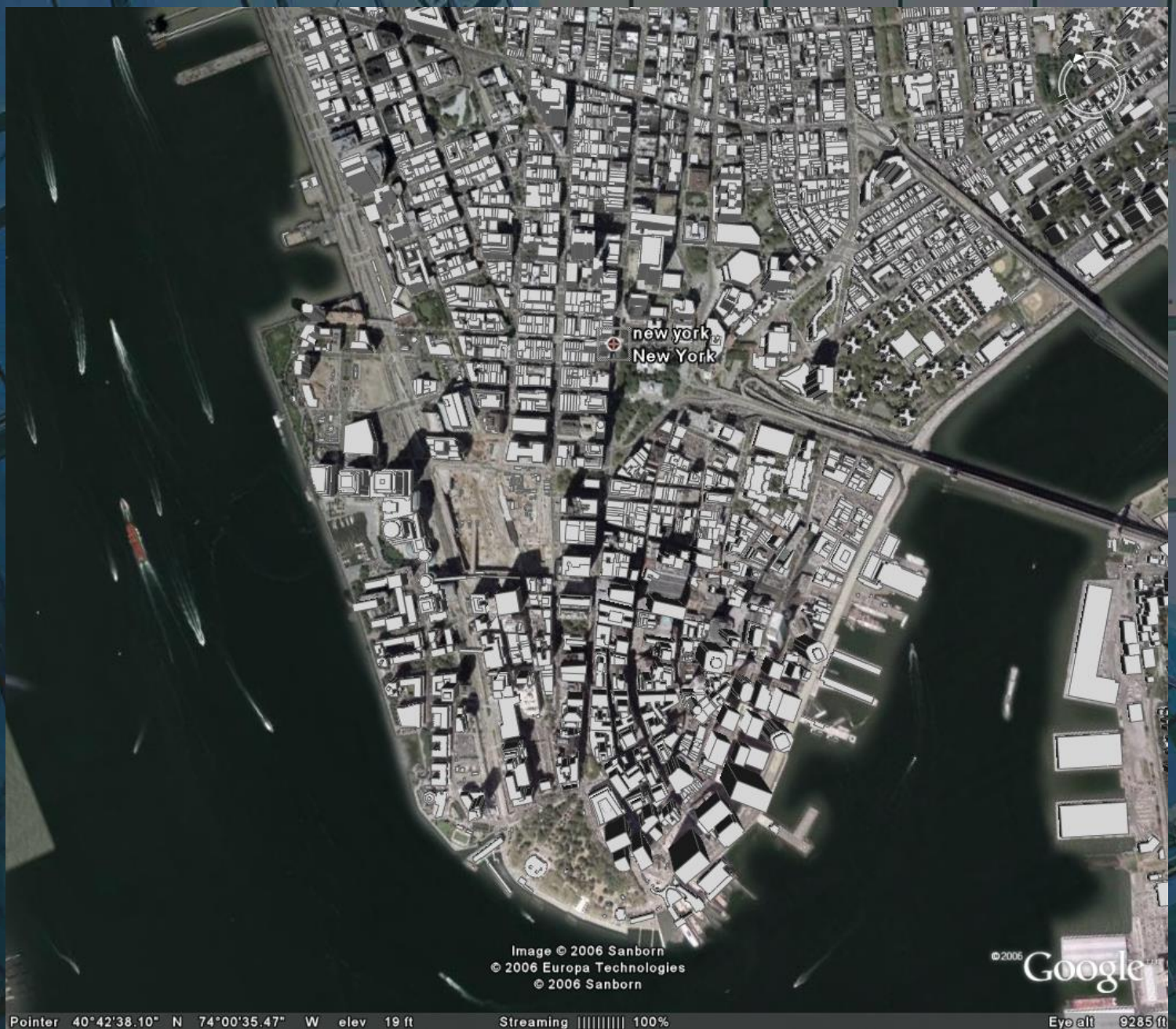
Building Information Modeling (BIM) in TALL BUILDINGS





BIM in Action

MASTER PLANNING



BIM in Action

MASTER PLANNING



new york
New York

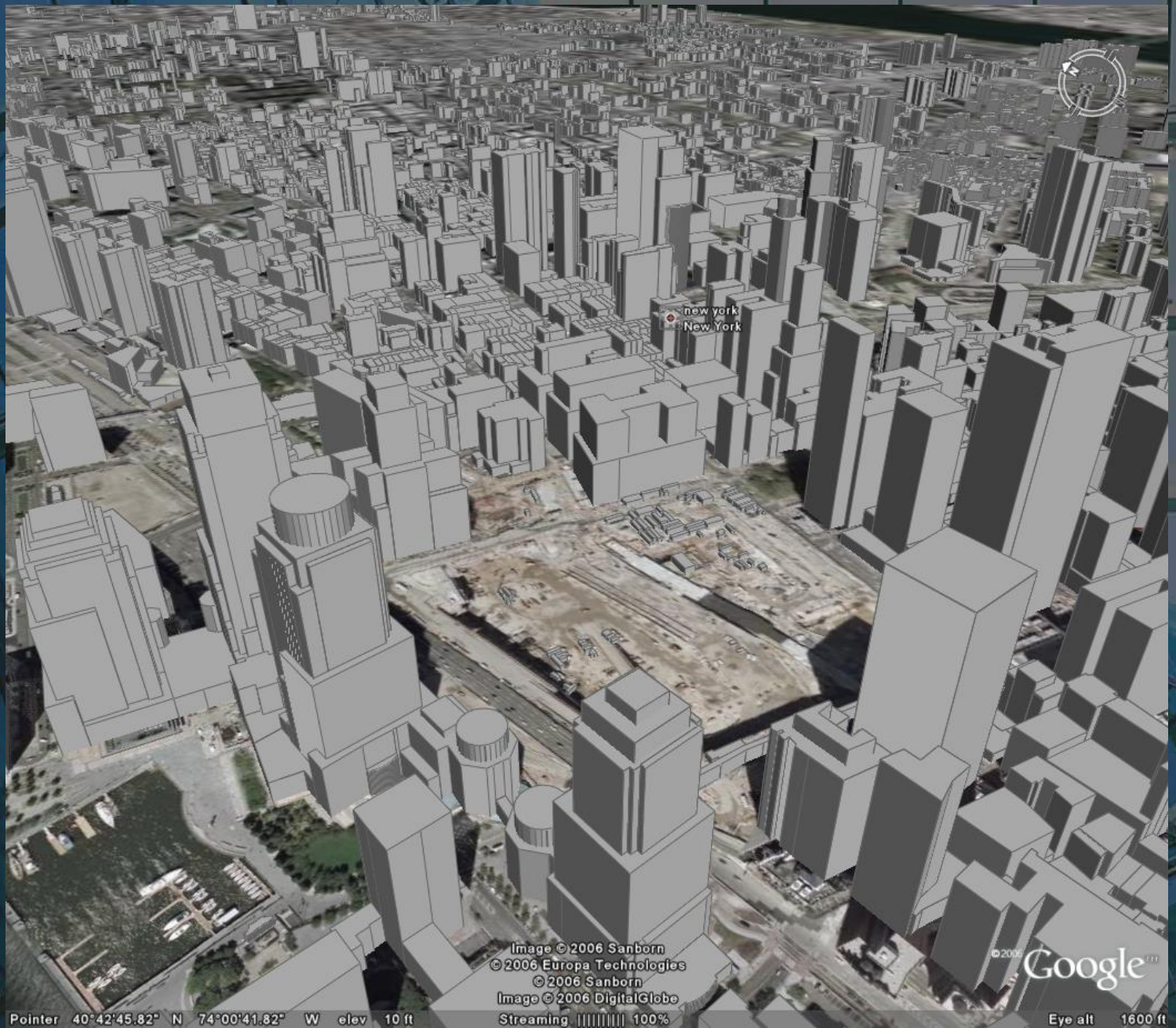
Image © 2006 Sanborn
© 2006 Europa Technologies
© 2006 Sanborn
Image © 2006 TerraMetrics

© 2006 Google™

Pointer 40°42'38.10" N 74°00'35.47" W elev 19 ft Streaming ||||| 100% Eye alt 4553 ft

BIM in Action

MASTER PLANNING

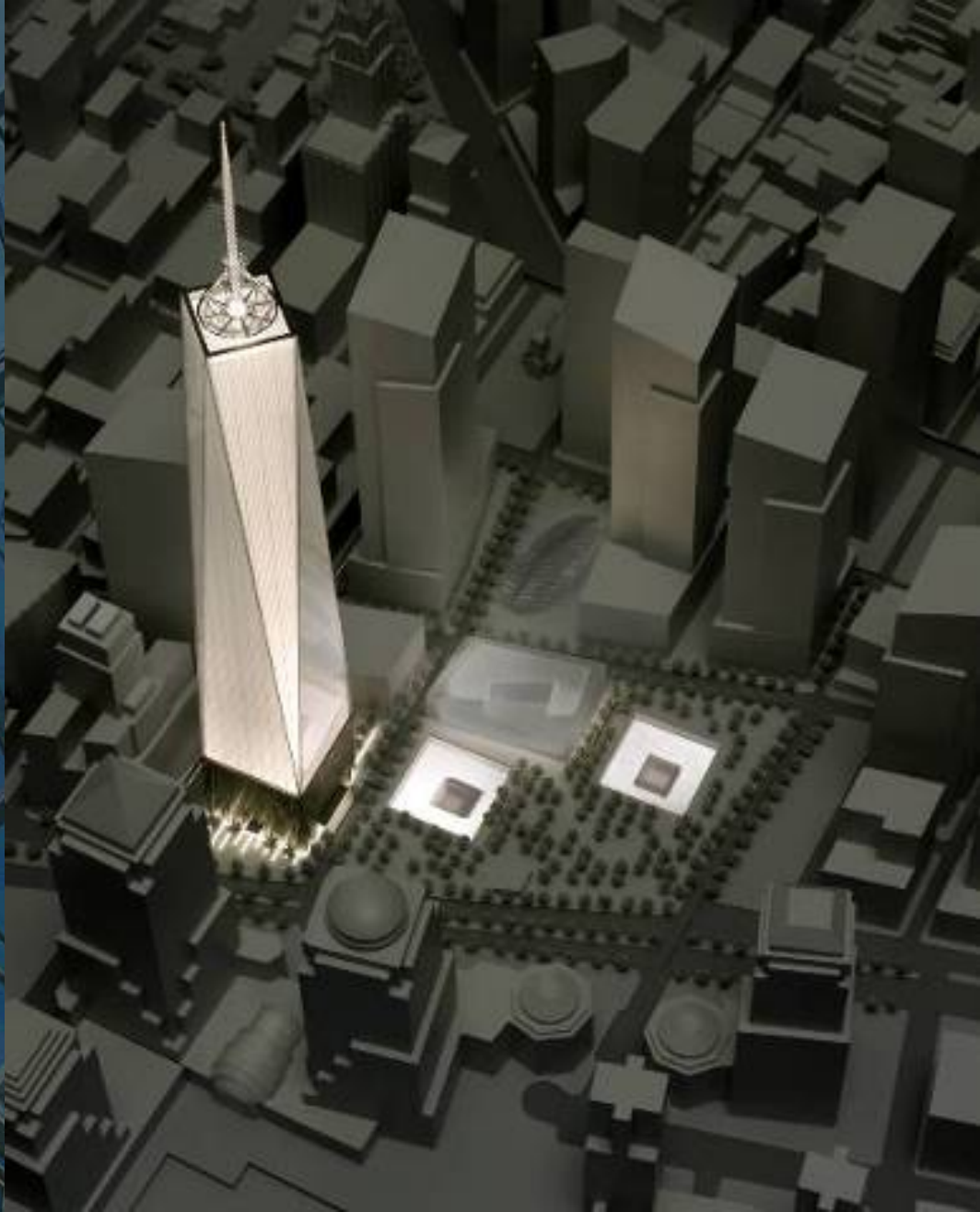


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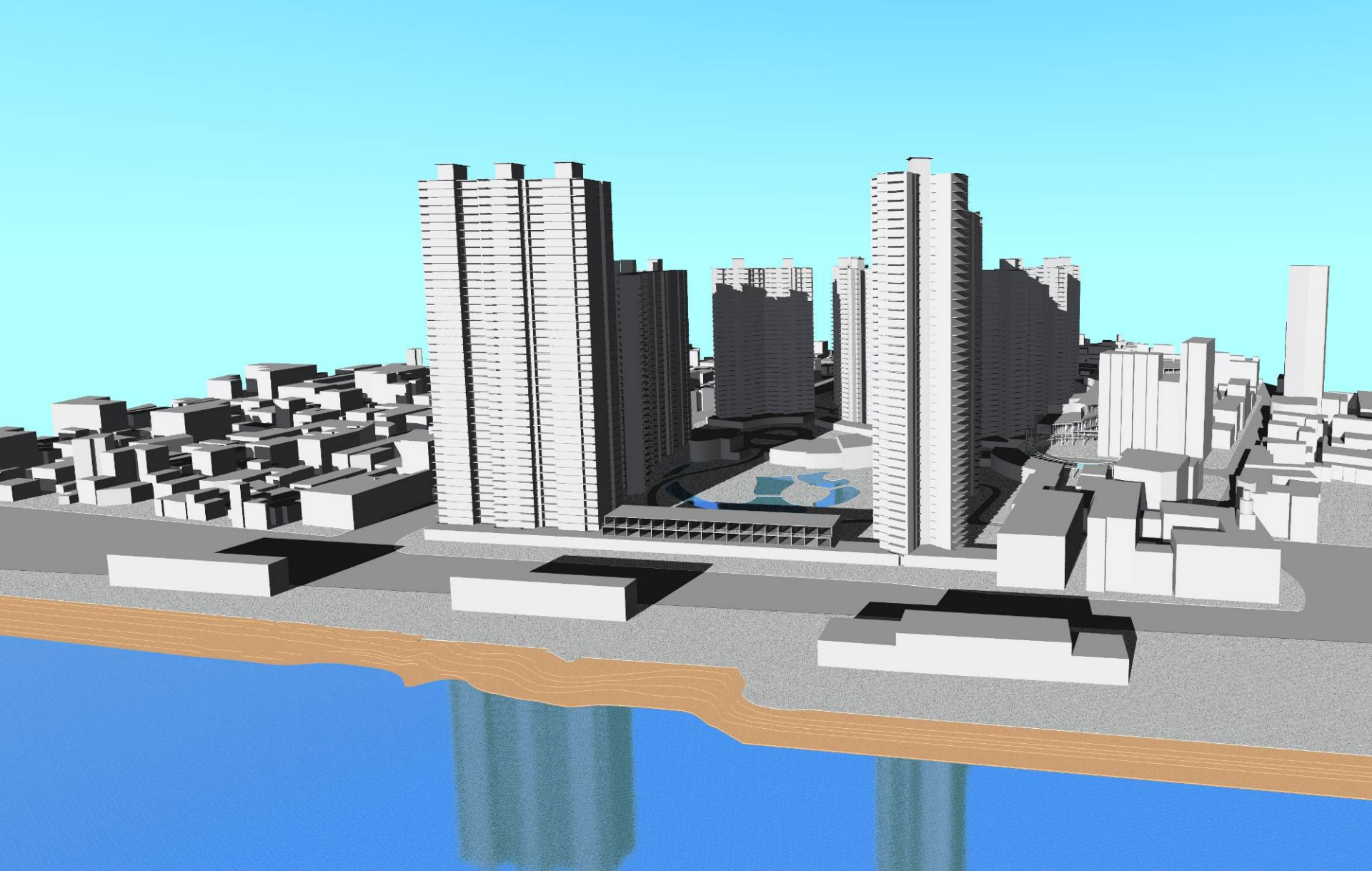
MASTER PLANNING

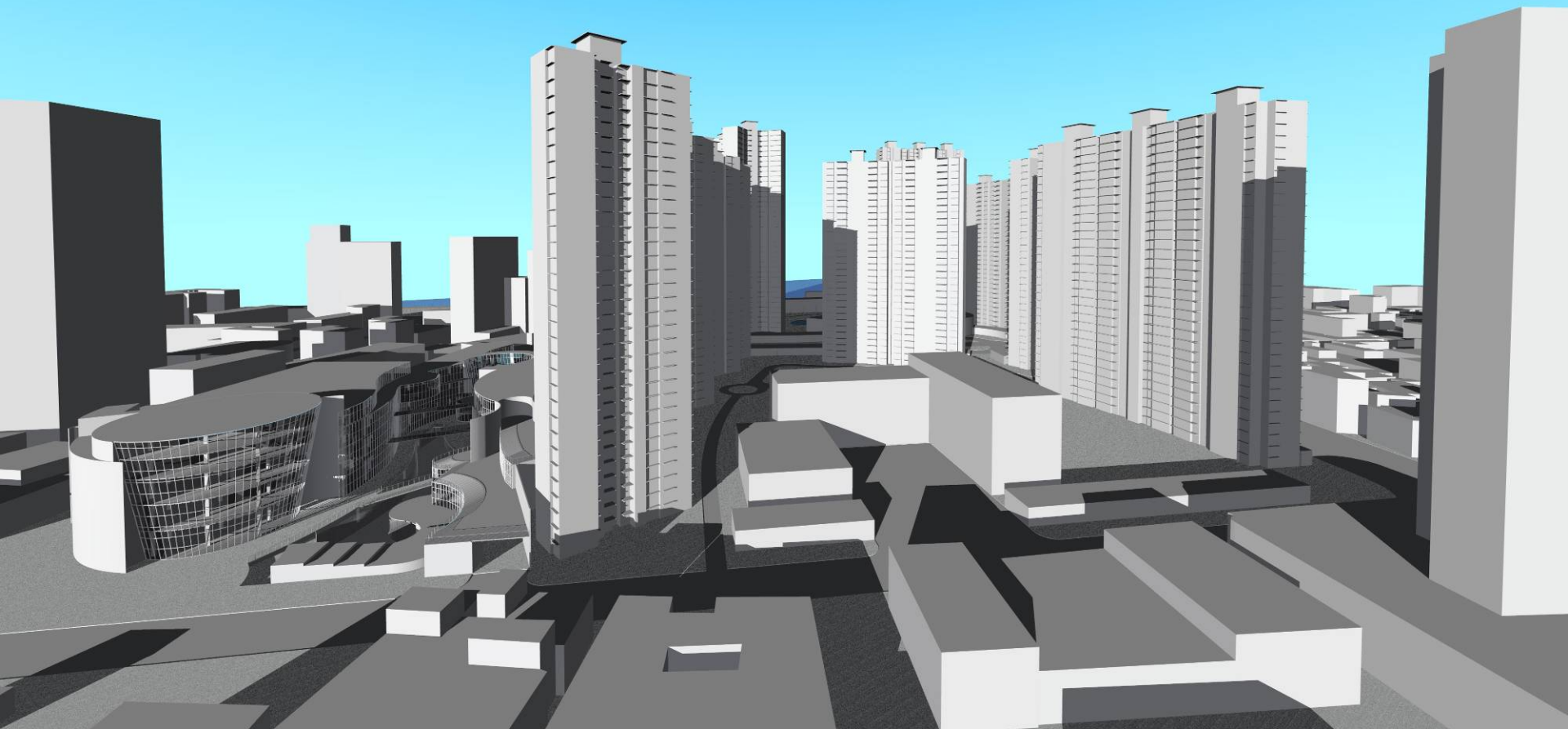


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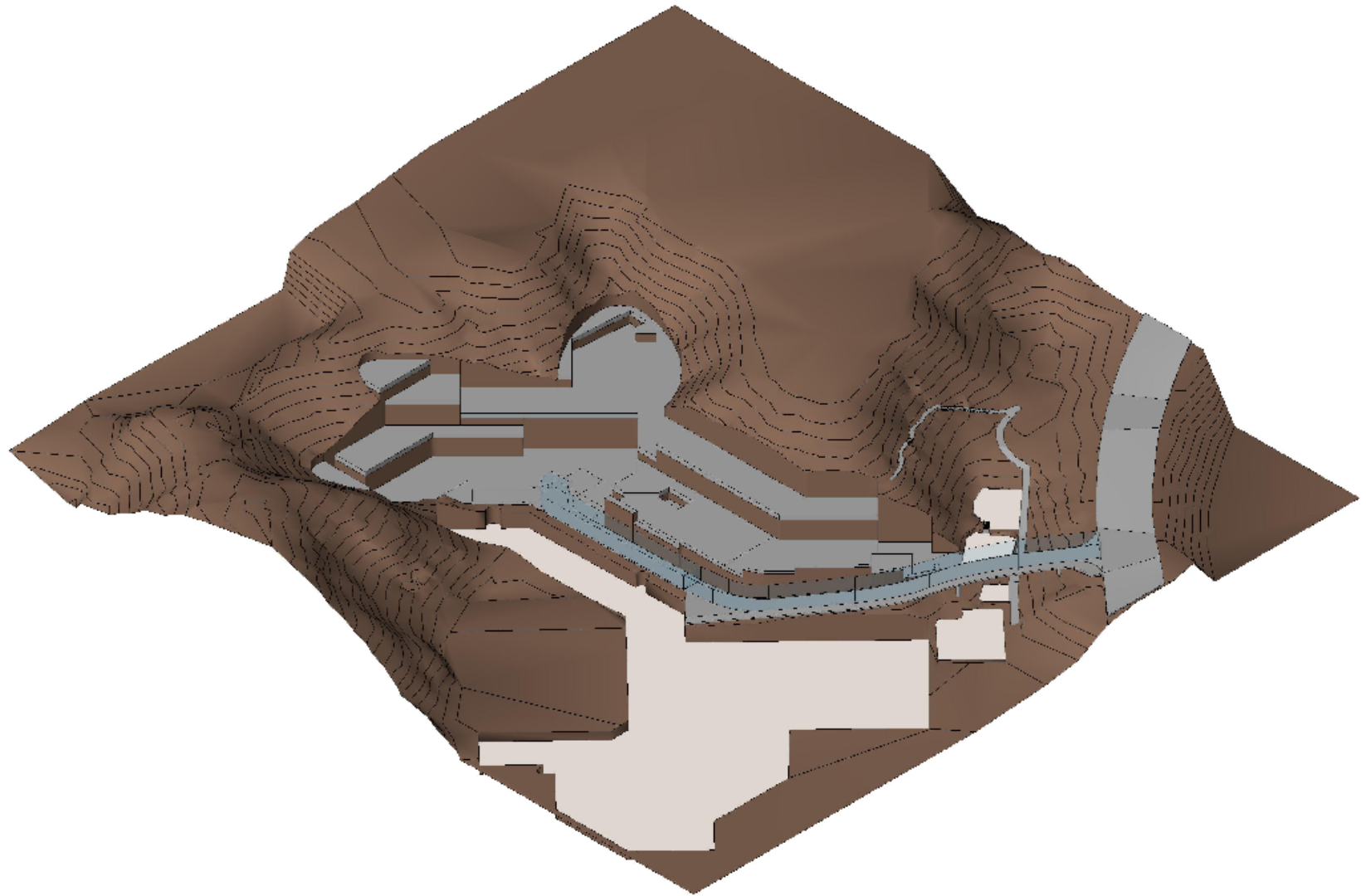
MASTER PLANNING

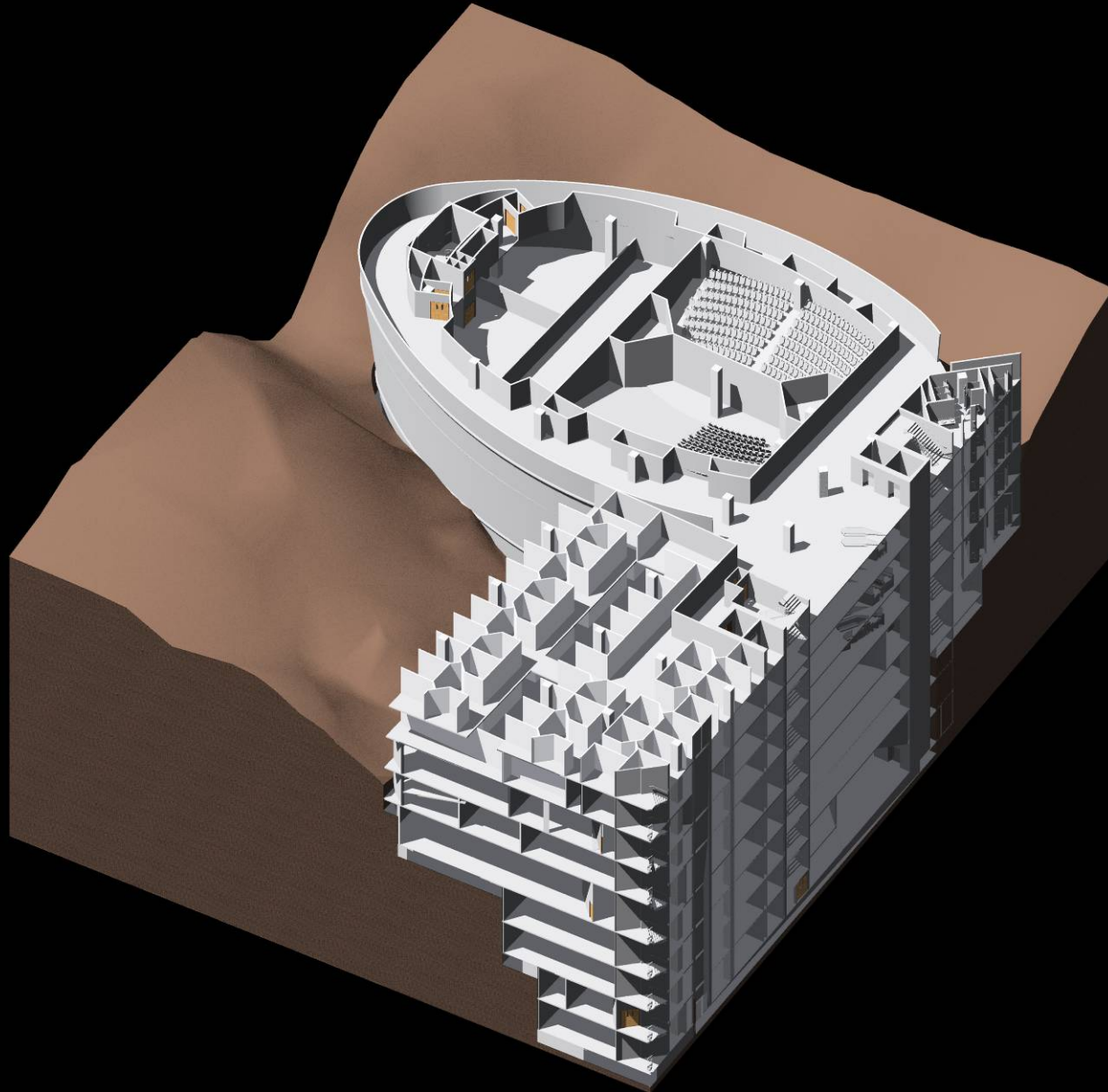


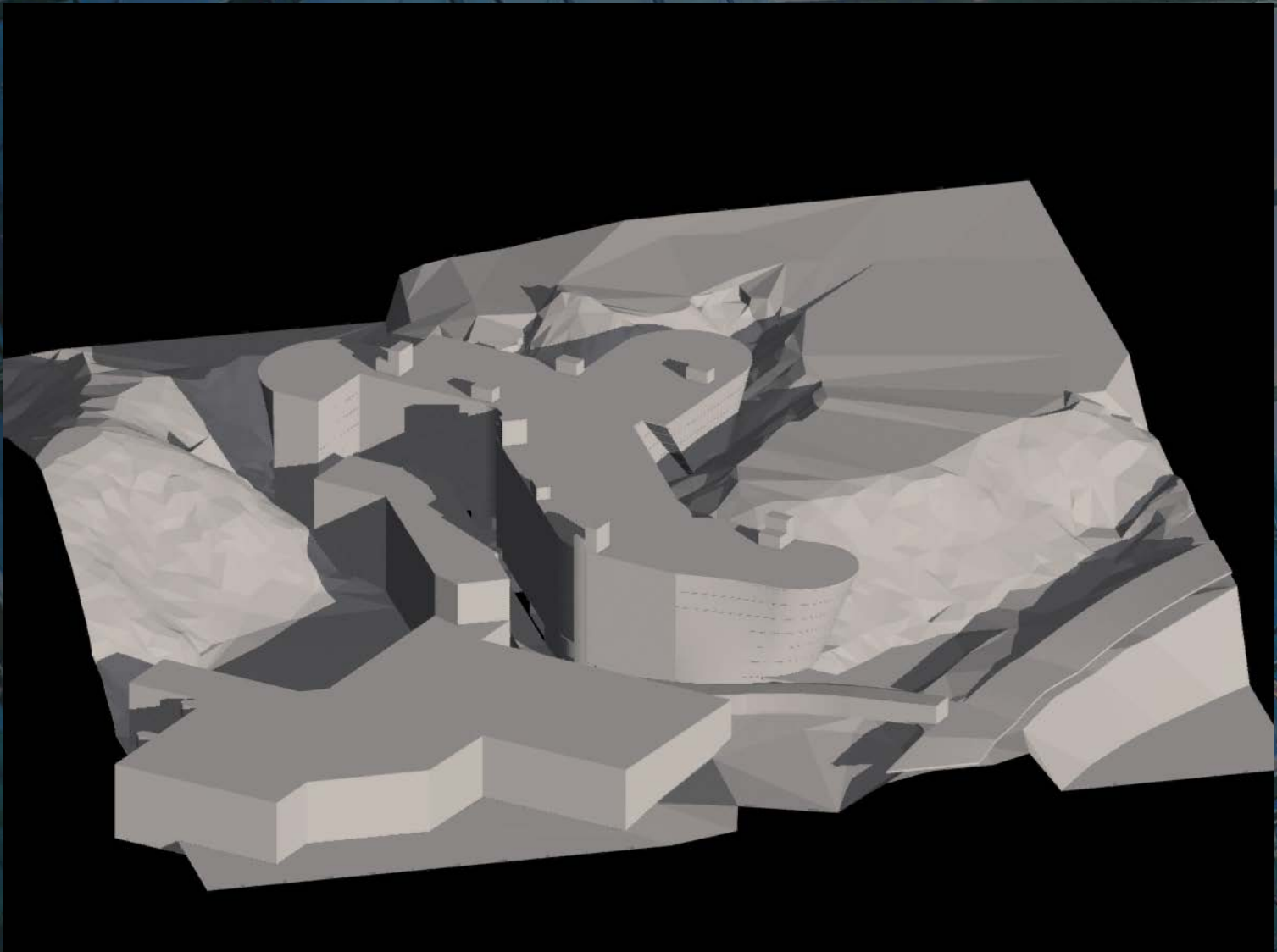


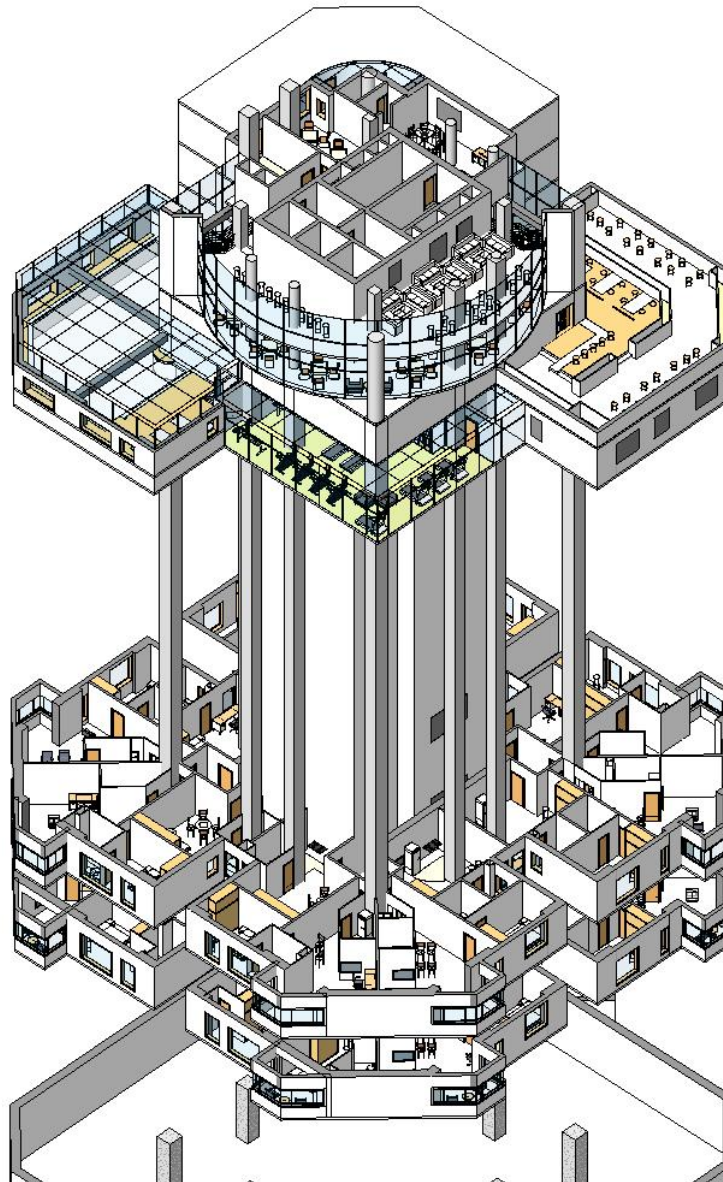
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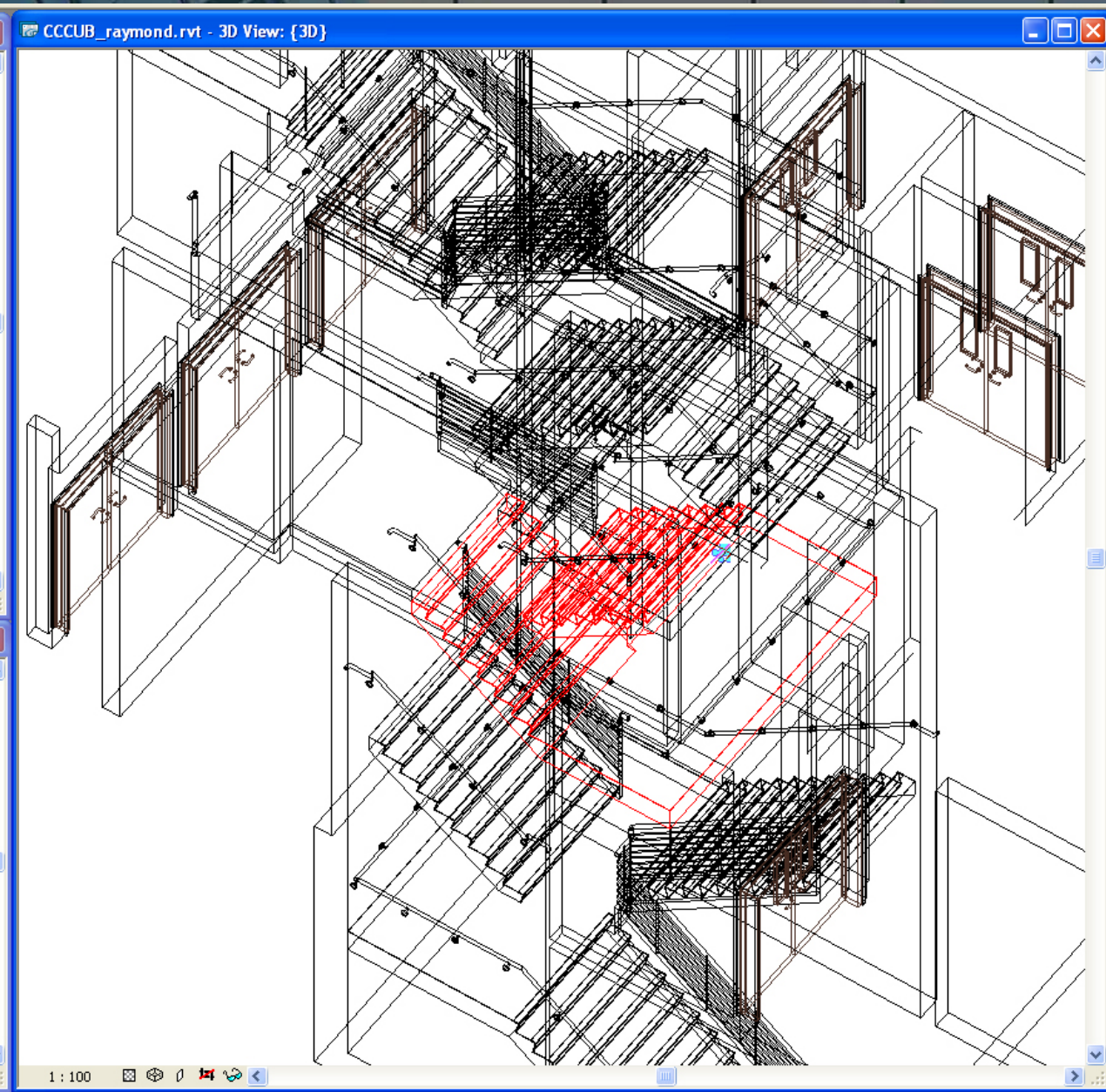
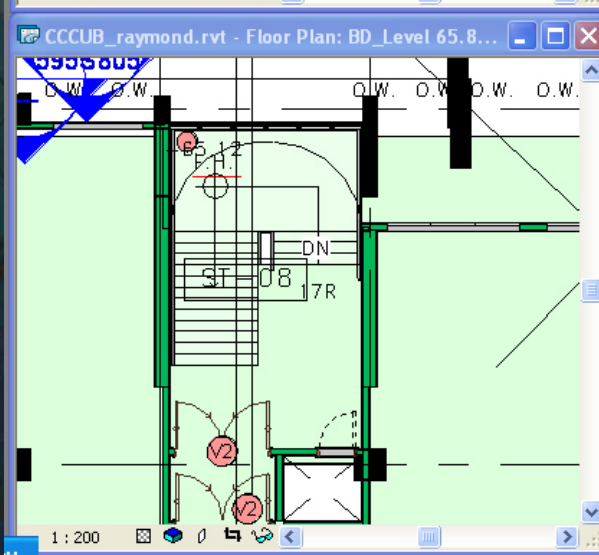
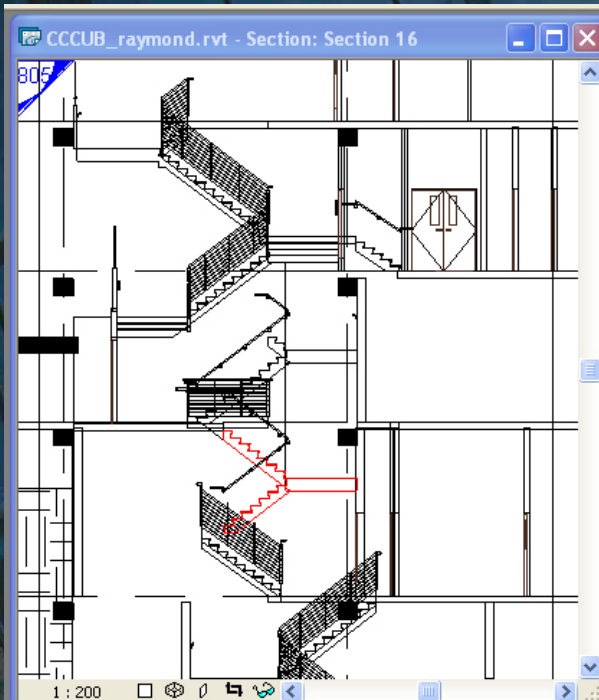
BUILDING IN CONTEXT

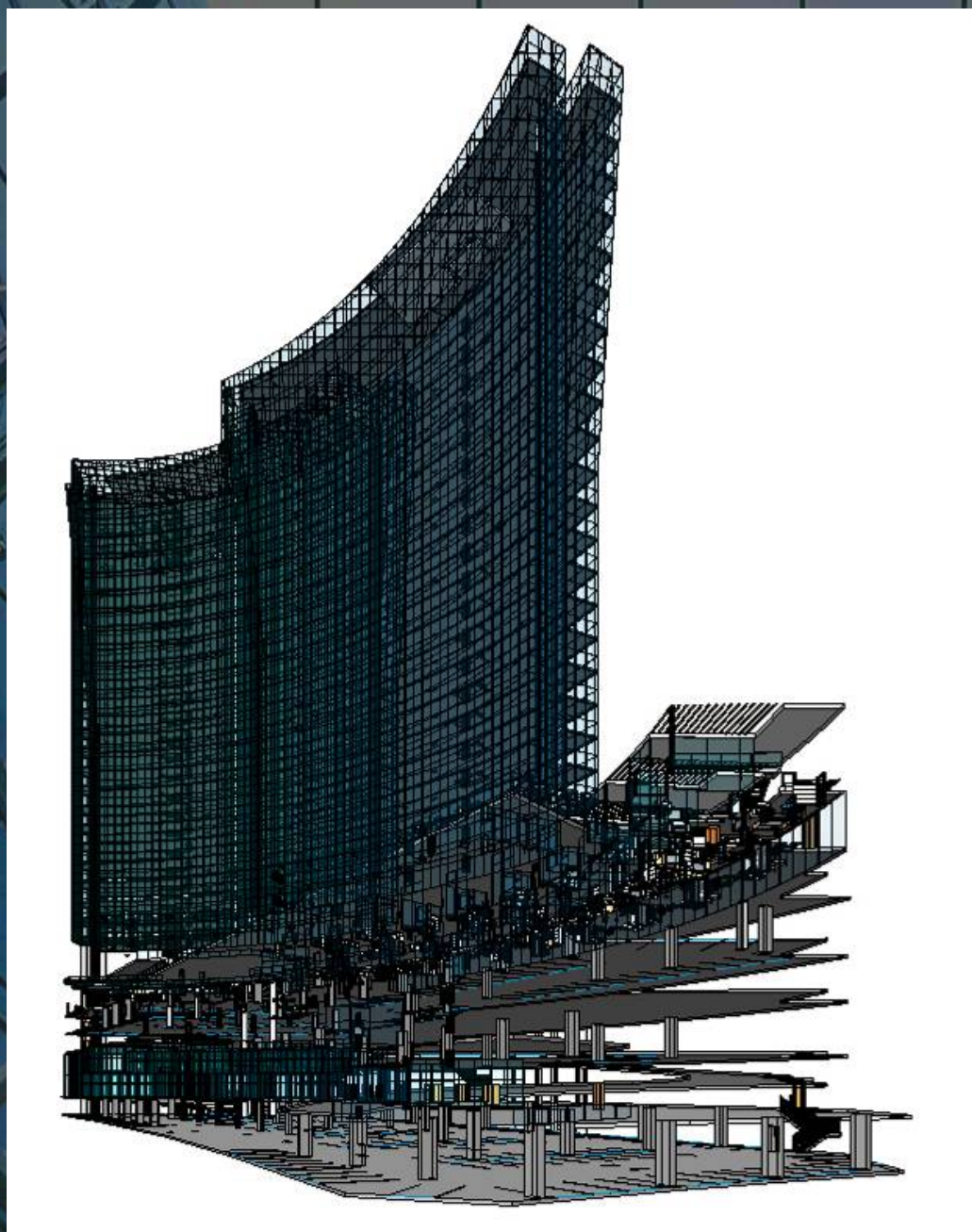






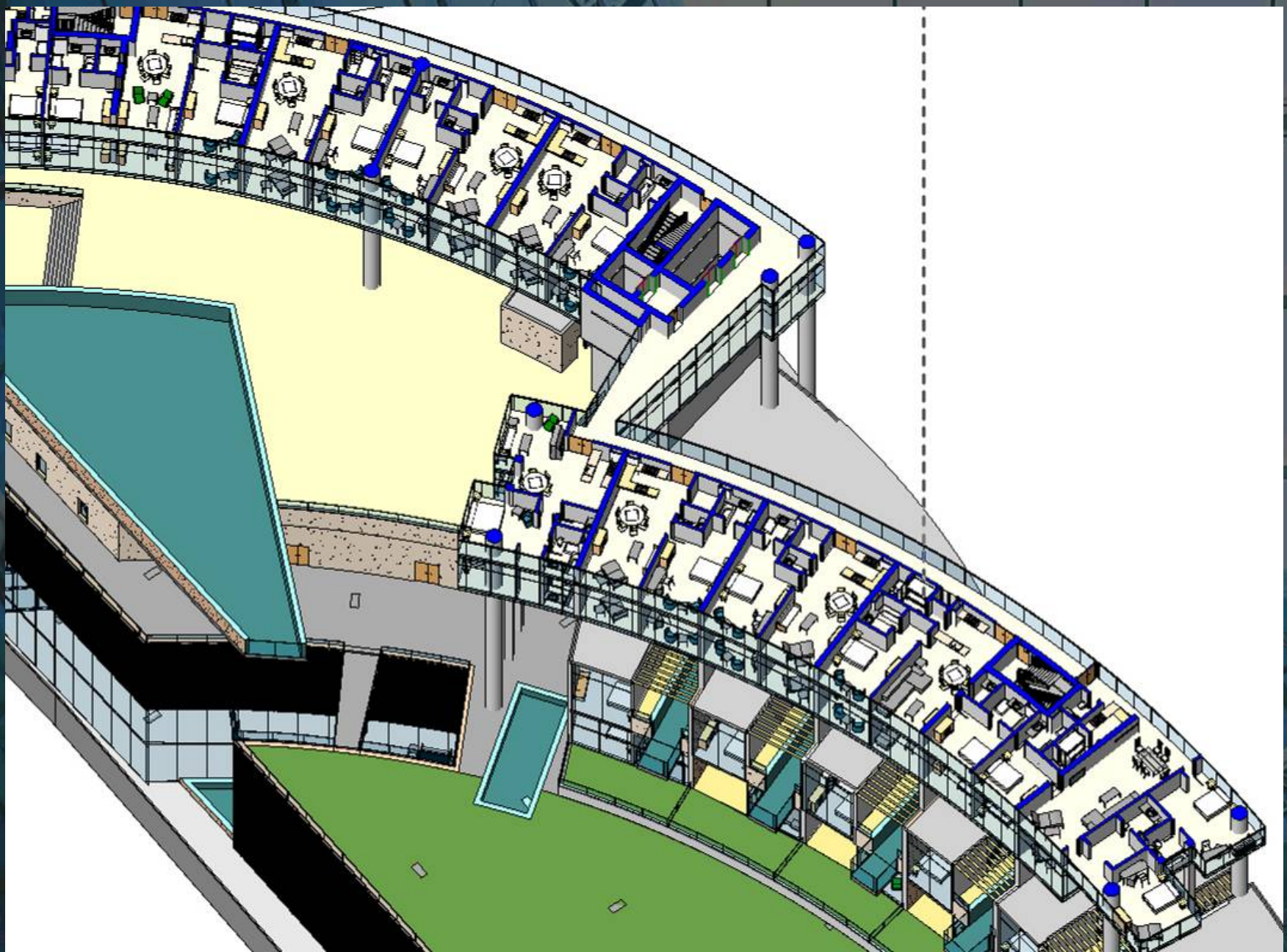






BIM in Action

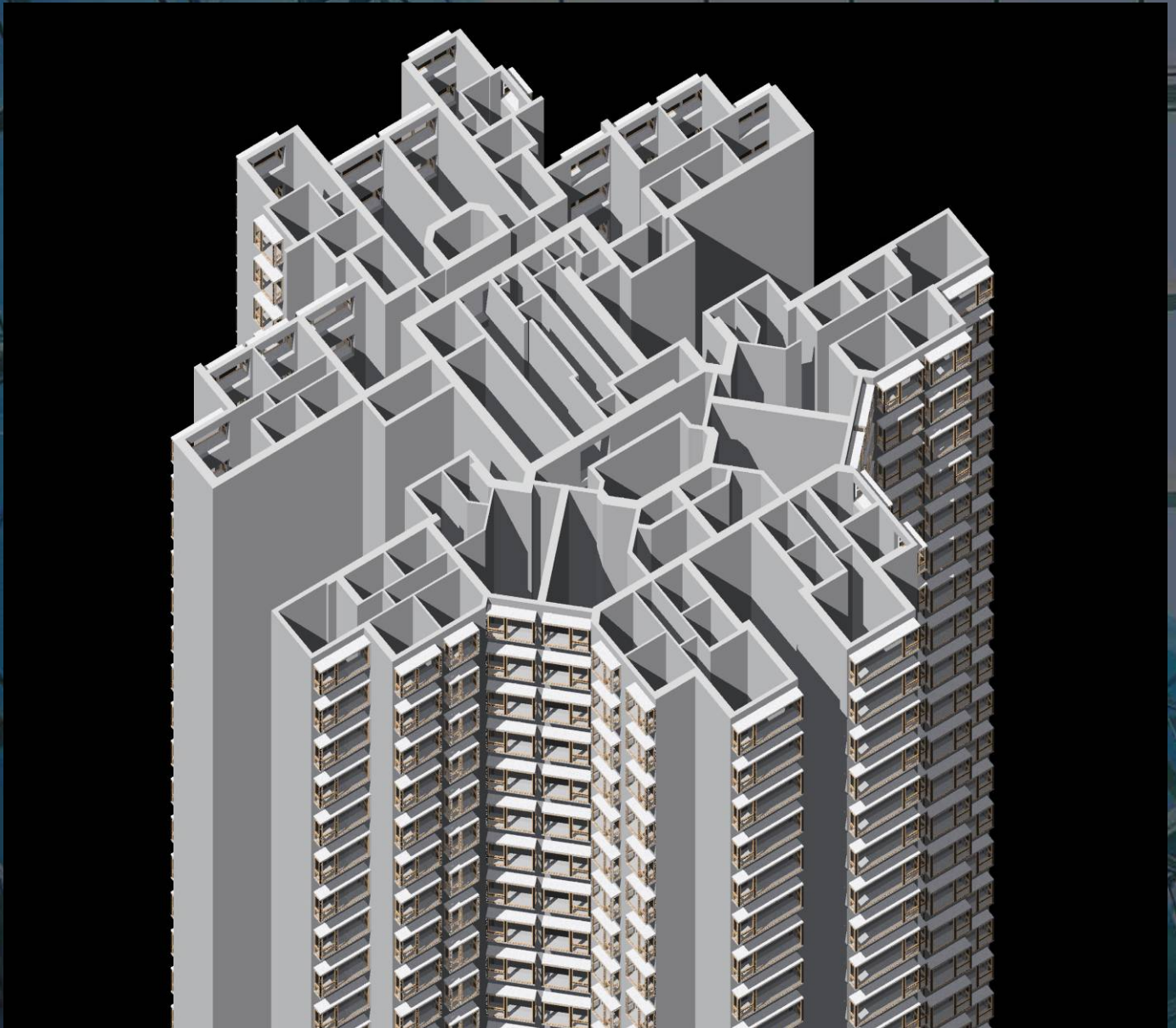
HORIZONTAL REPETITION / MODULARIZATION

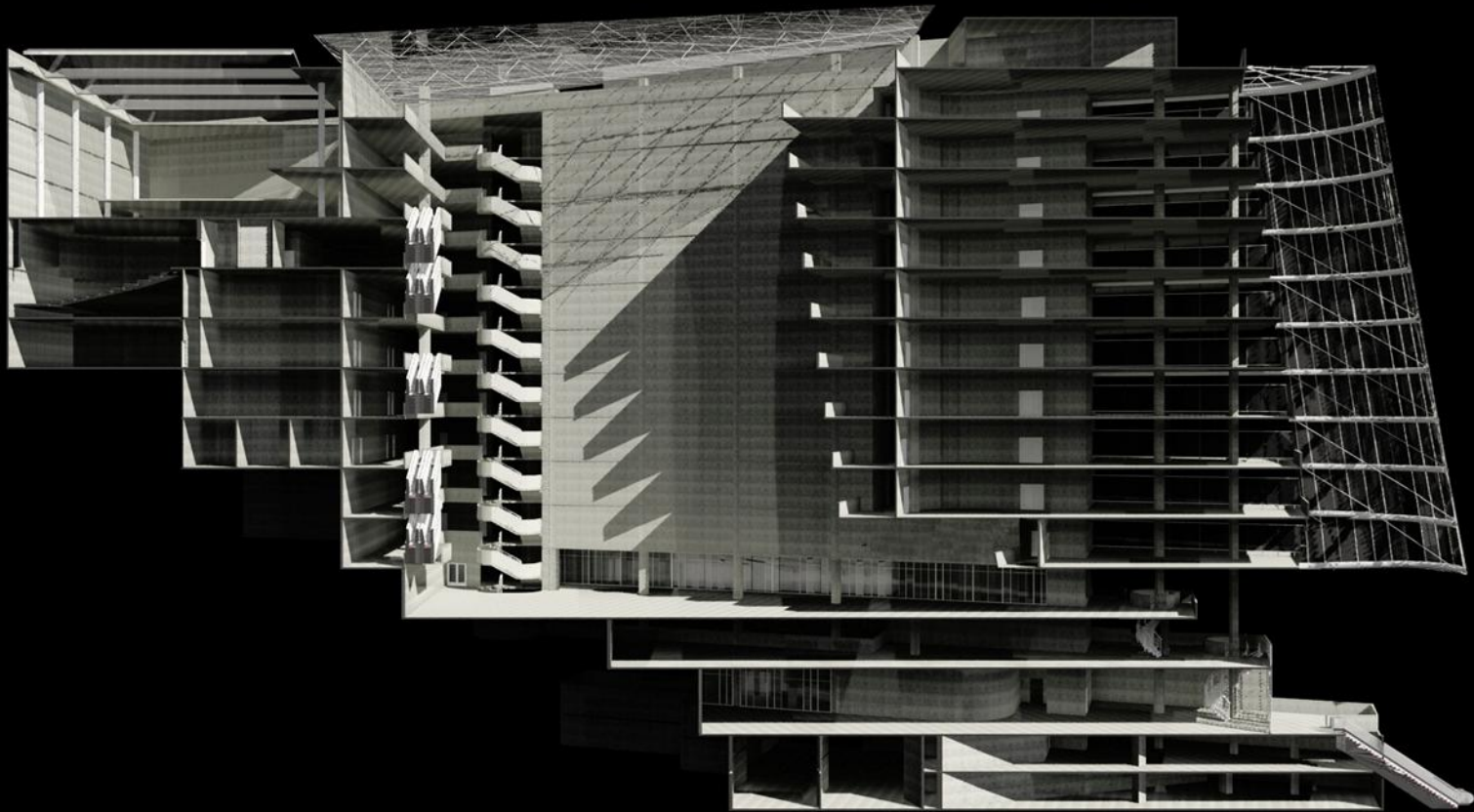




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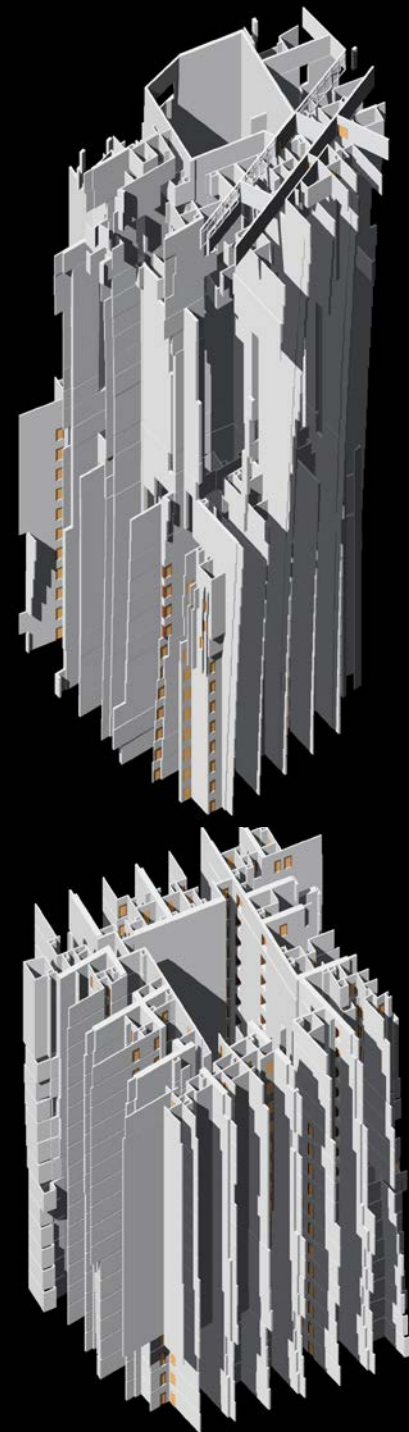
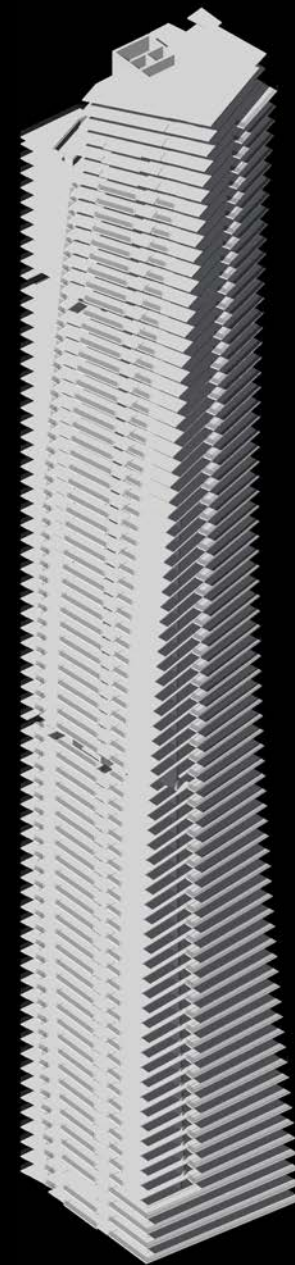
REPETITIONS vs VARIATIONS





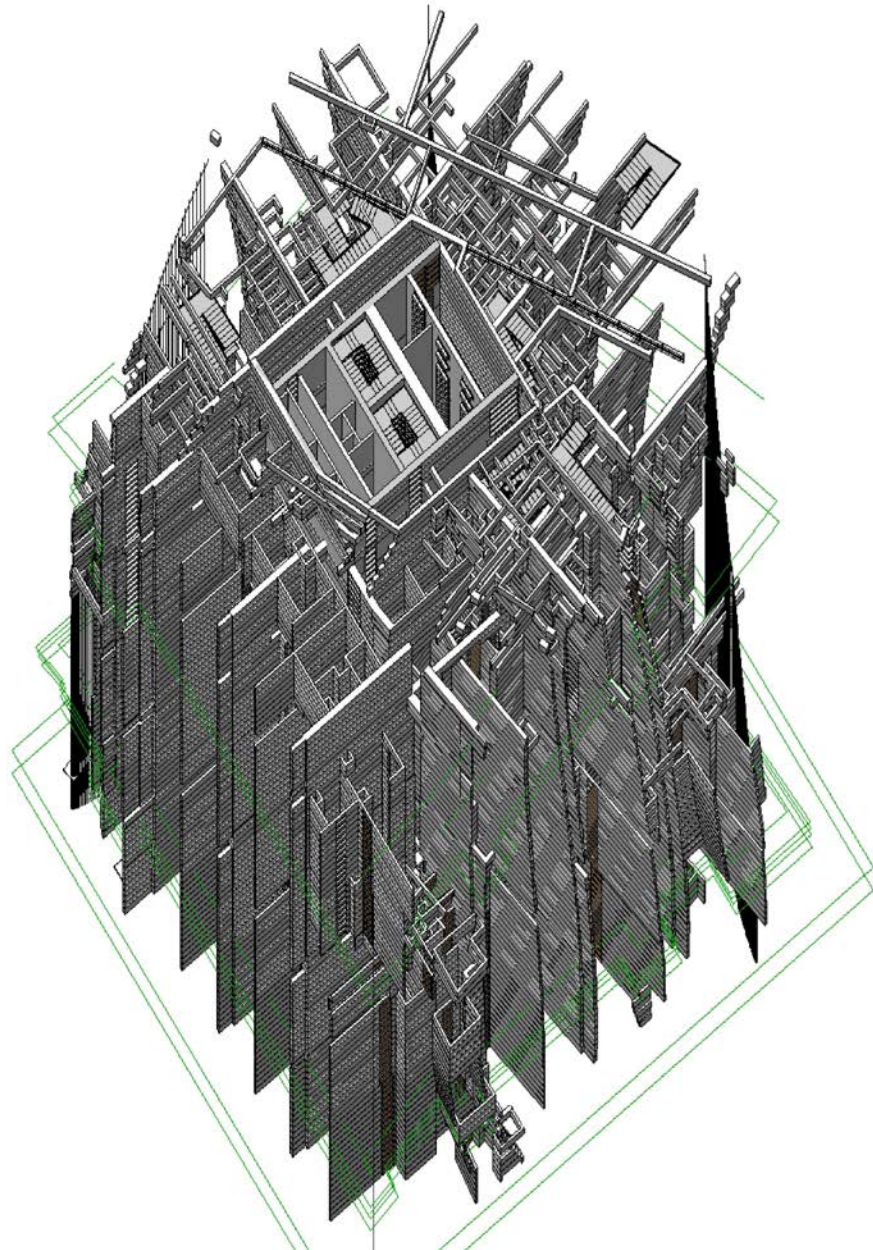
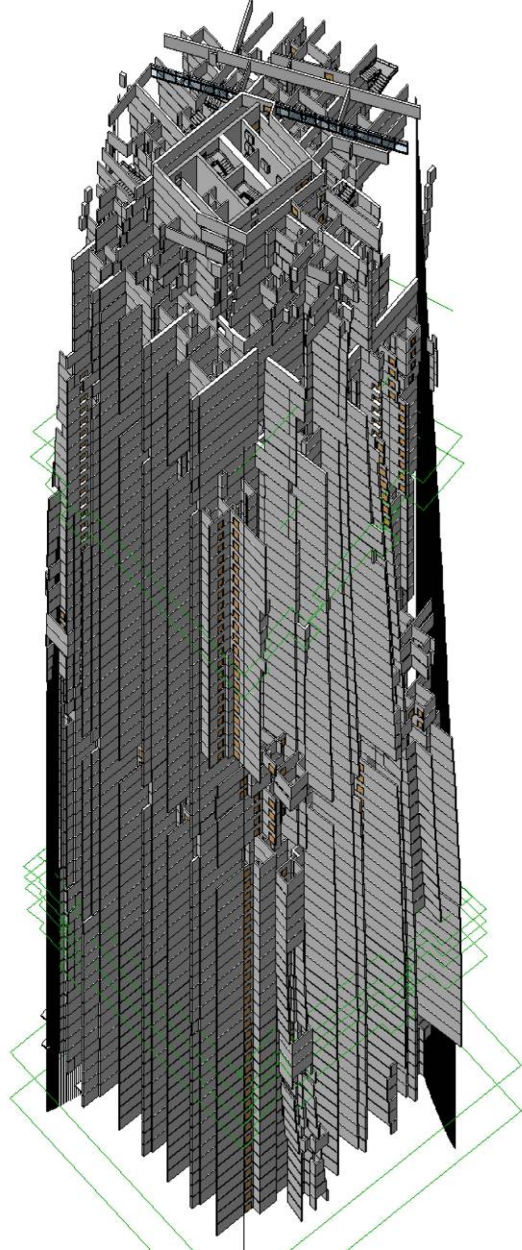
BIM in Action

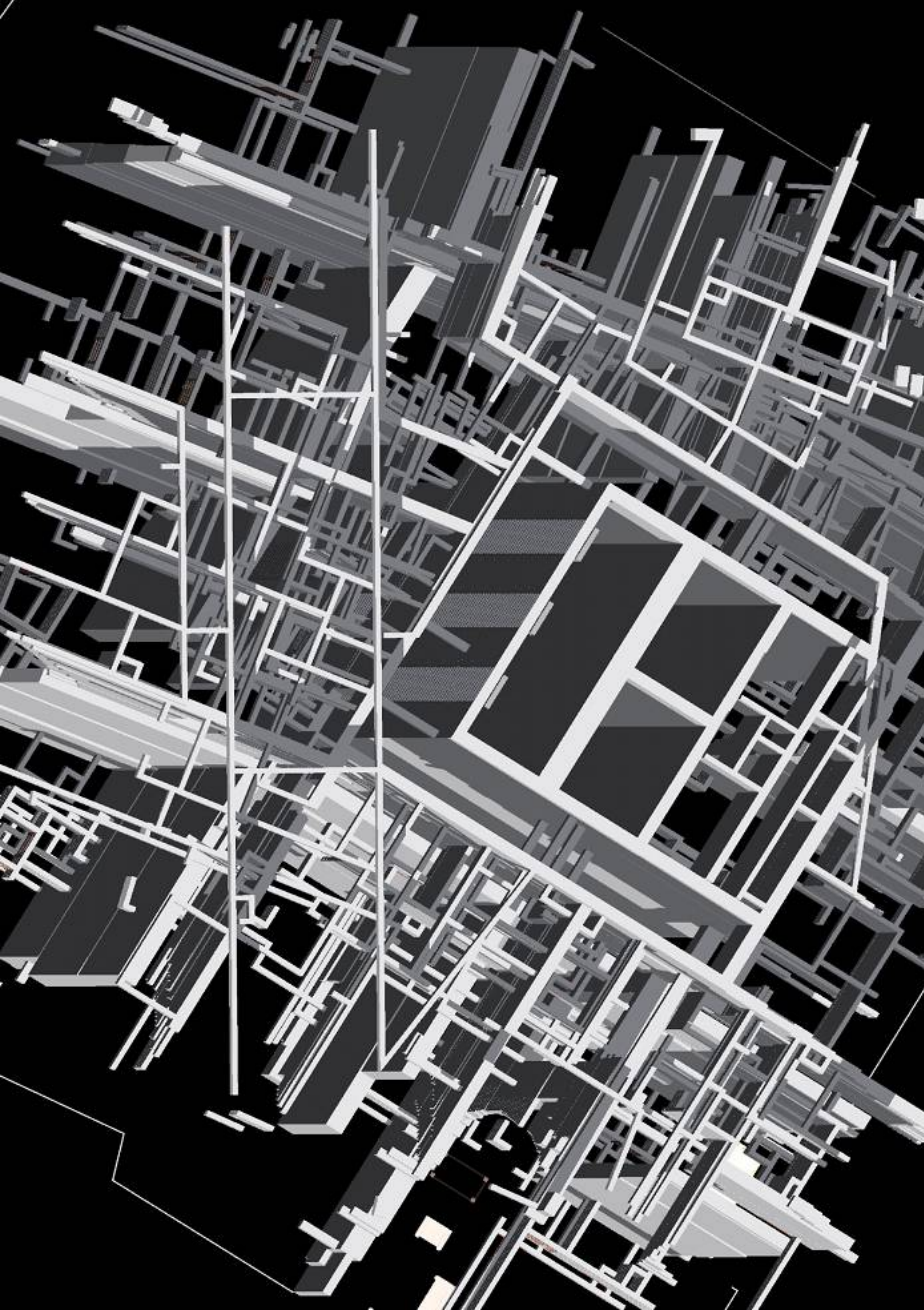
INTERNAL vs EXTERNAL



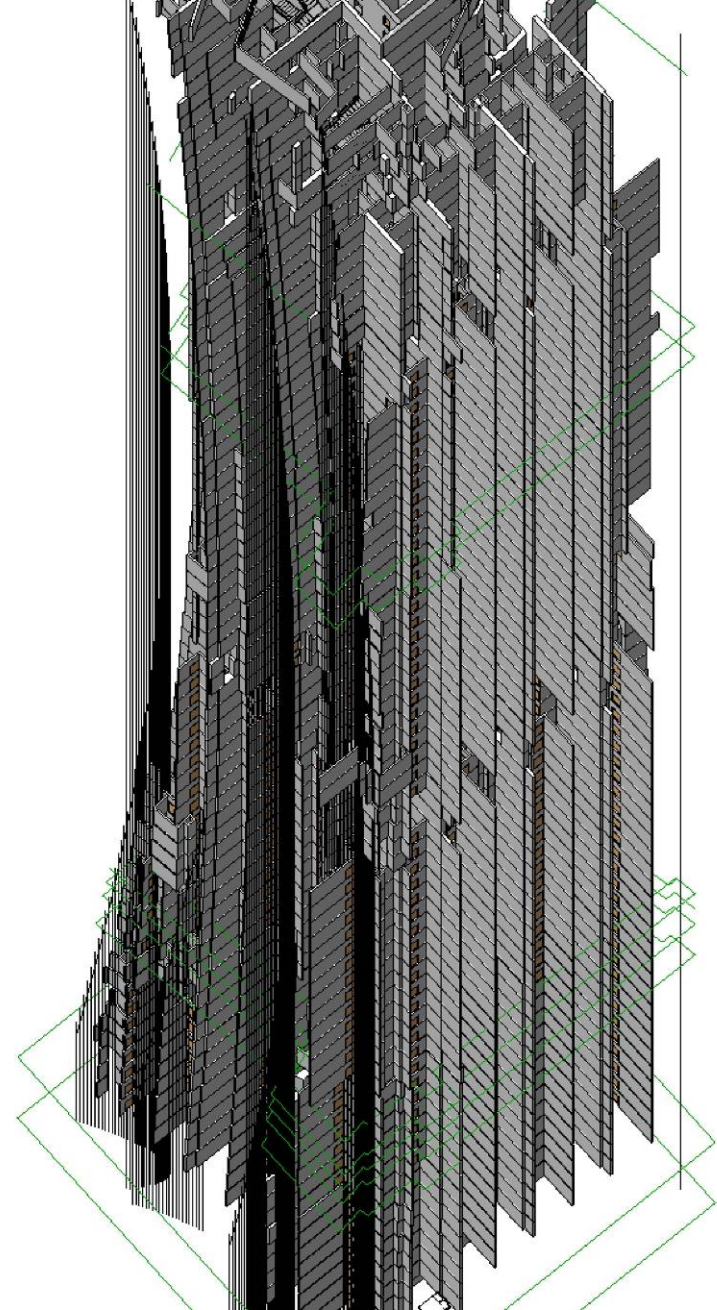
BIM in Action

COMPLEX GEOMETRY

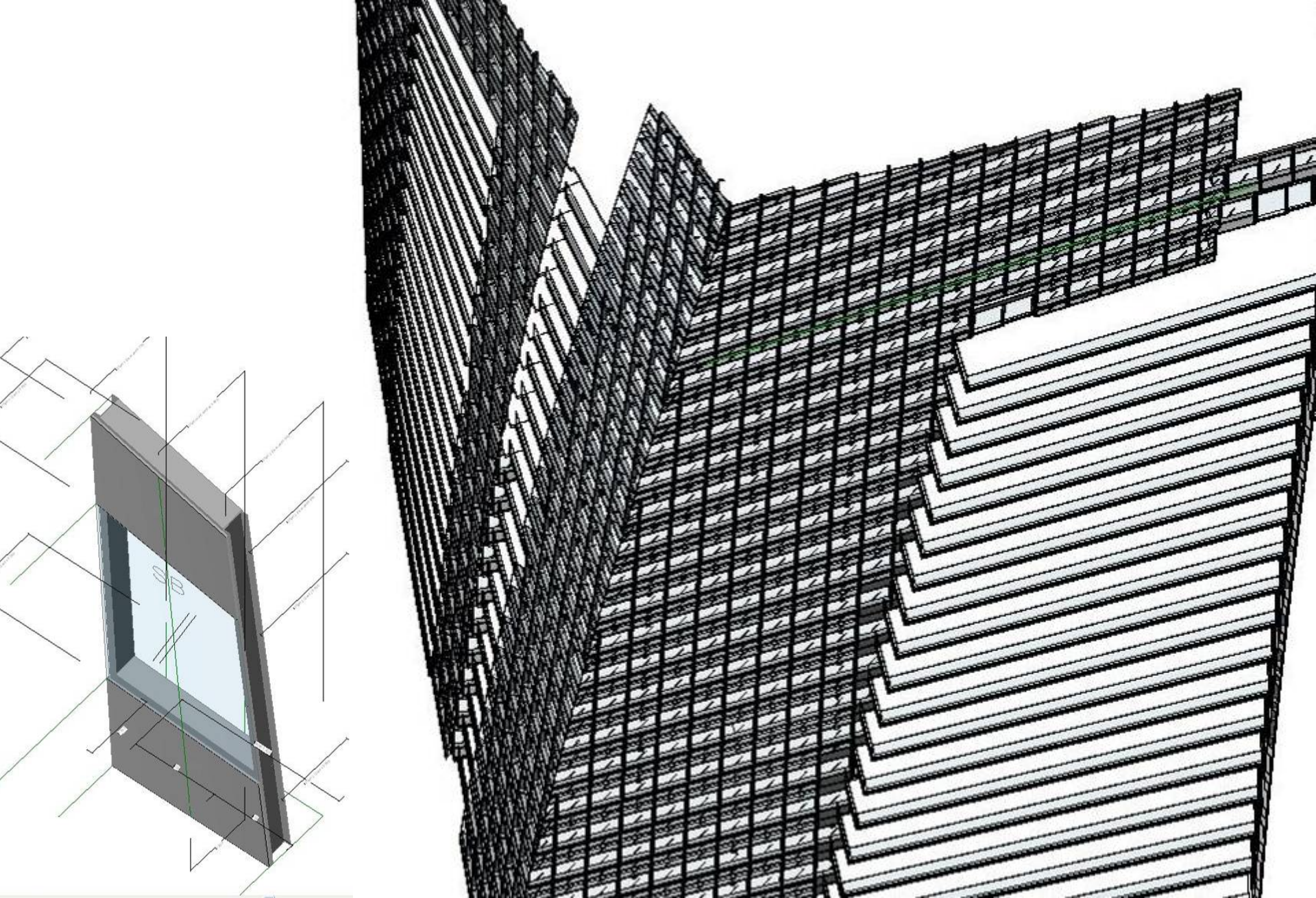




BIM in Action



INTERNAL vs EXTERNAL



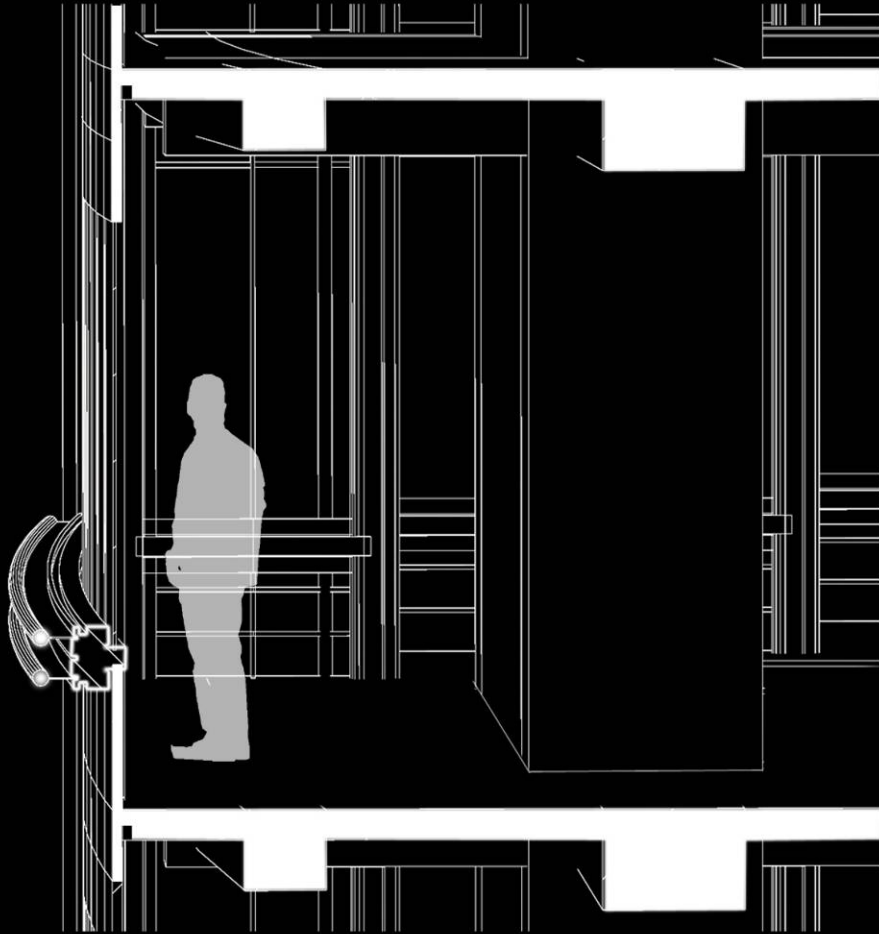
BIM in Action

COMPLICATED CURTAIN WALL

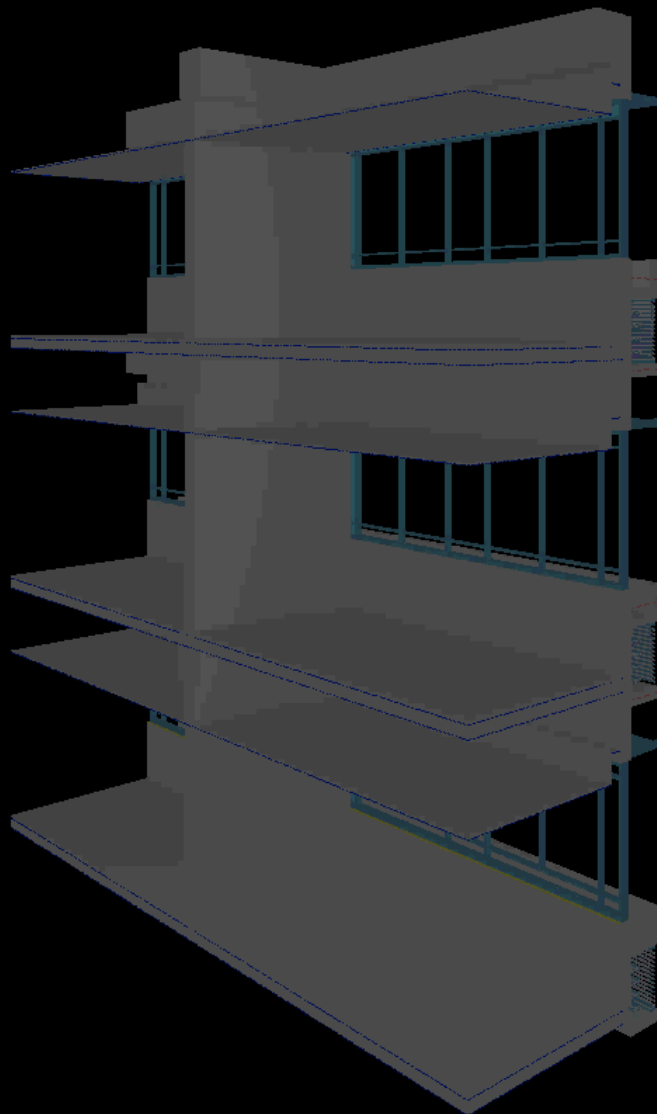


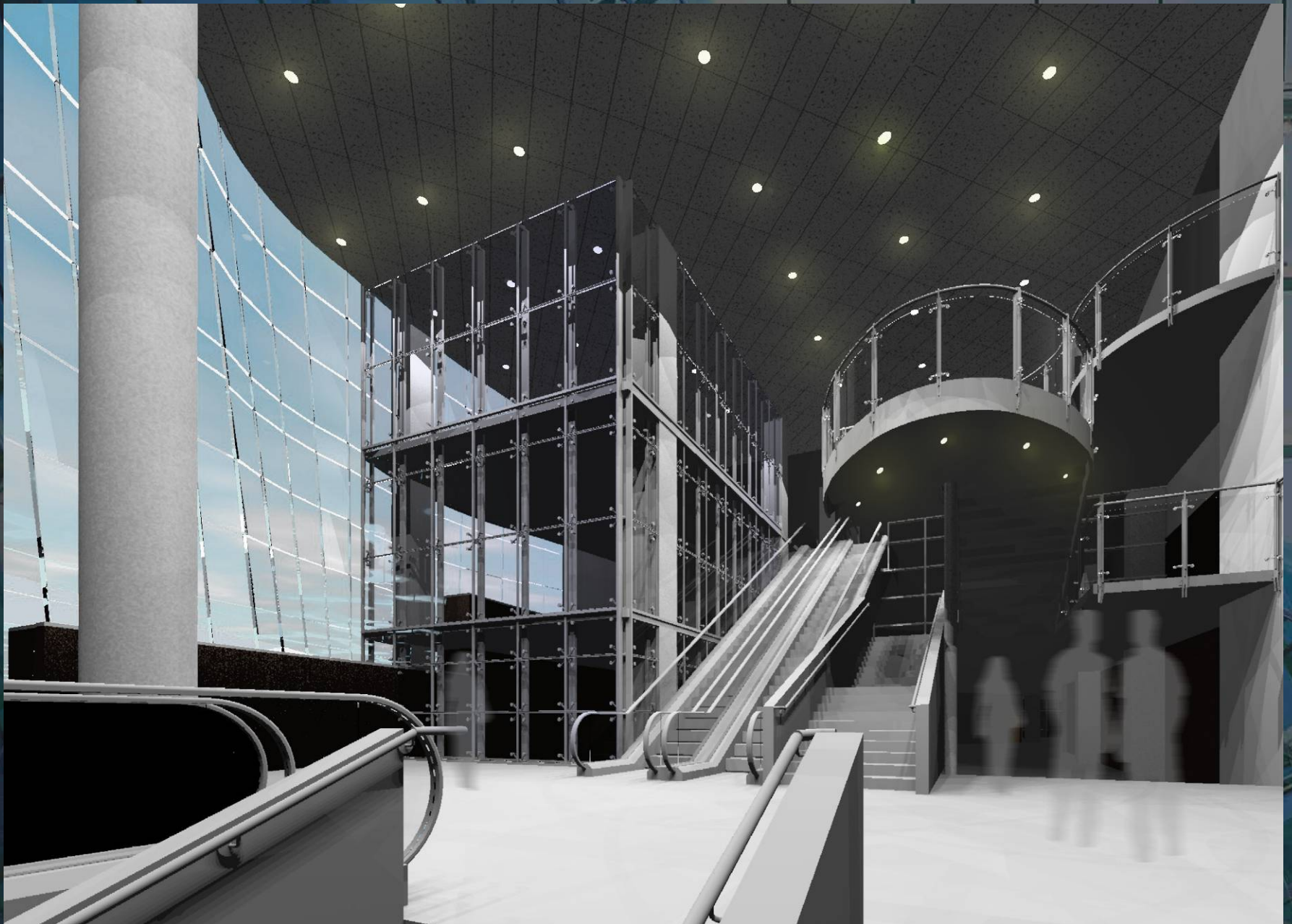
BIM in Action

FAÇADE DESIGN



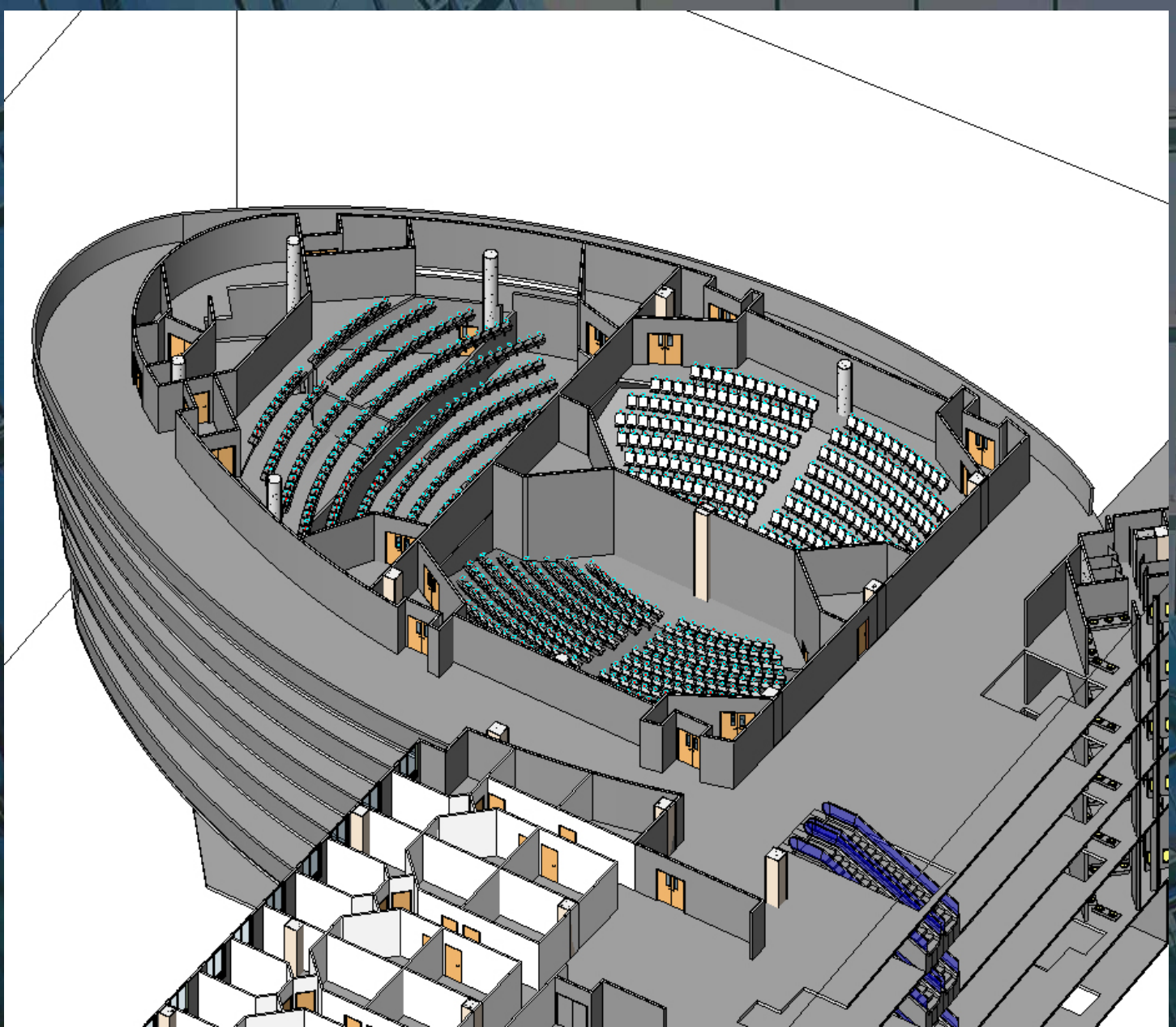


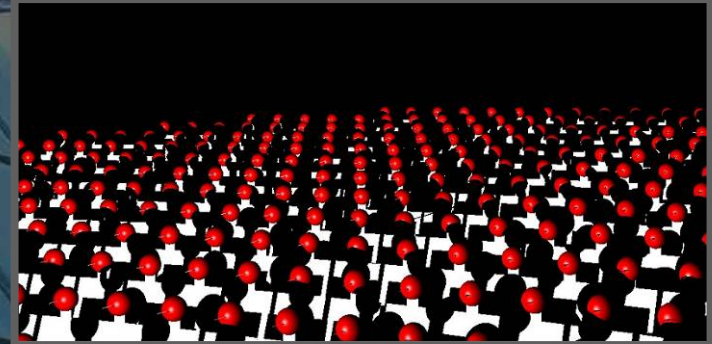
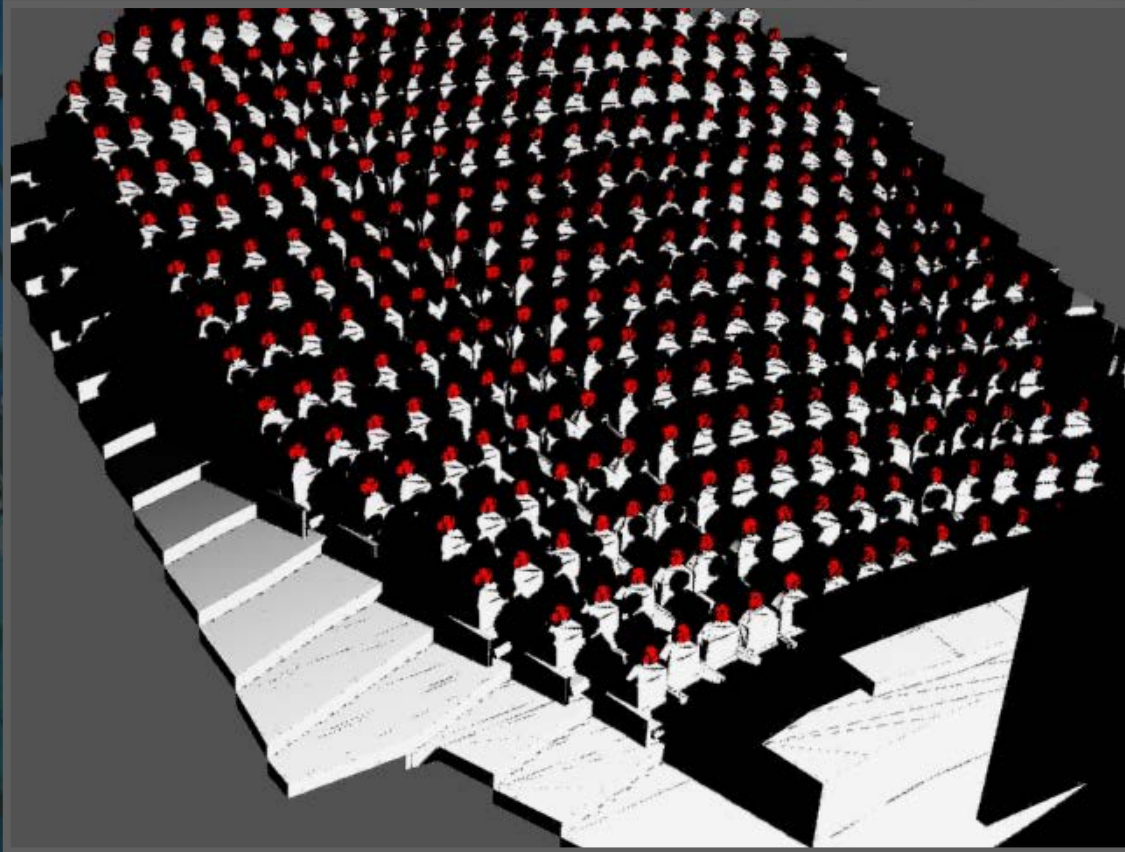




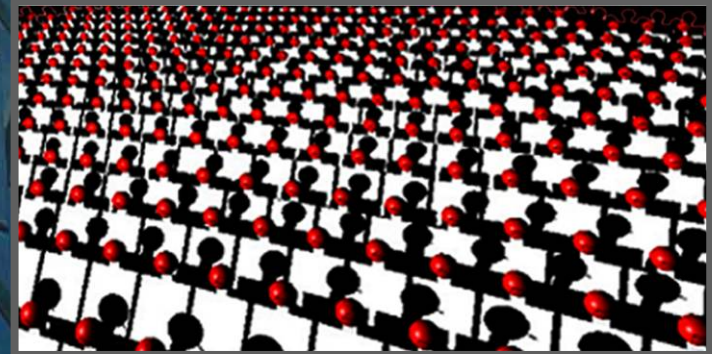
BIM in Action

DIFFERENT DESIGN APPROACH – 3D DESIGN



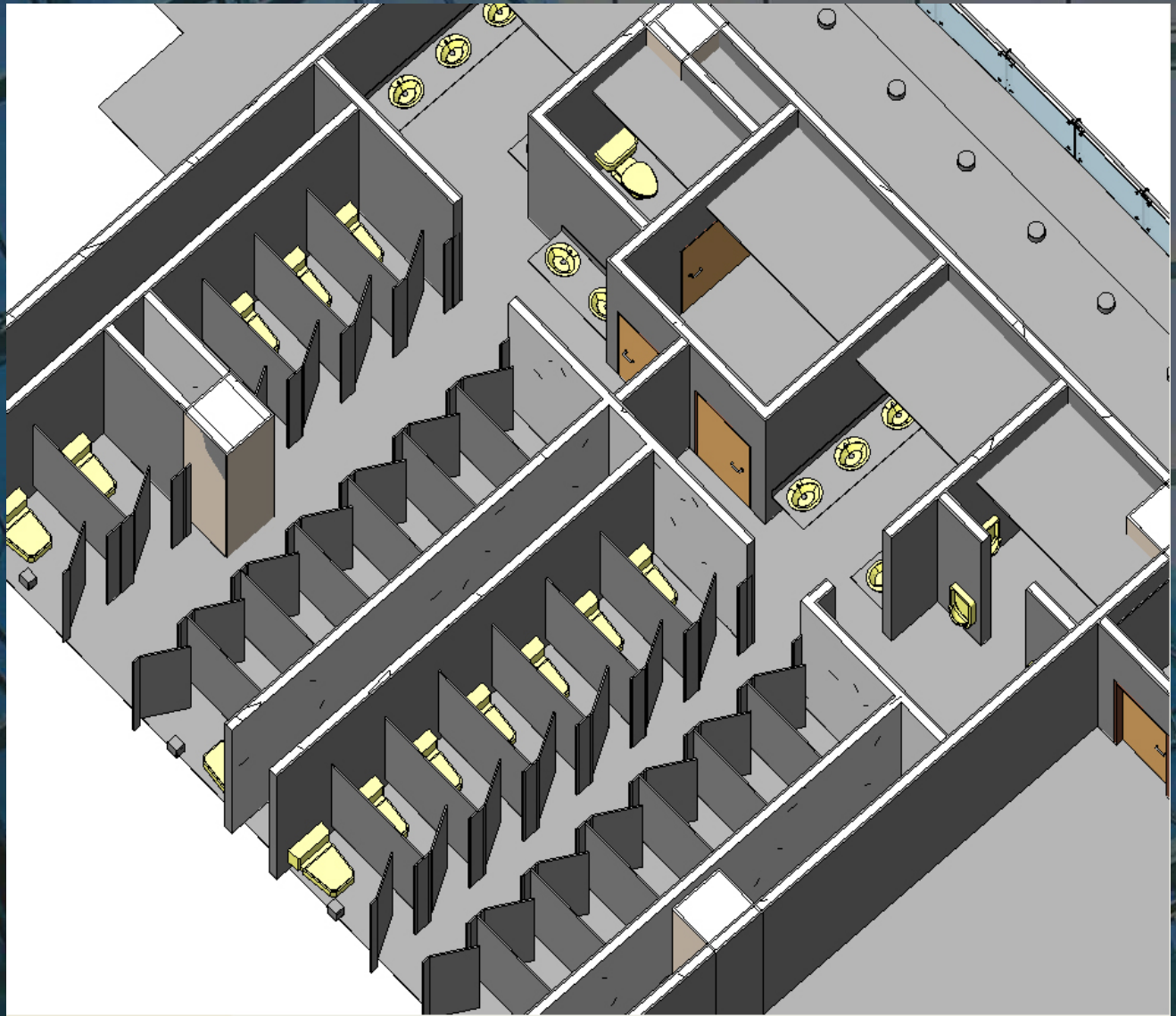


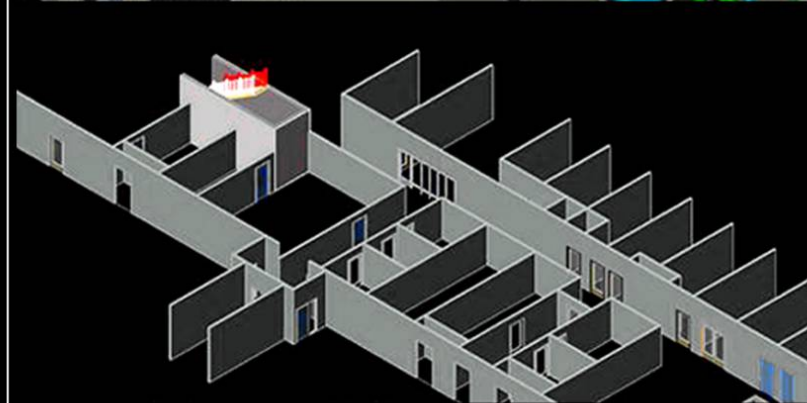
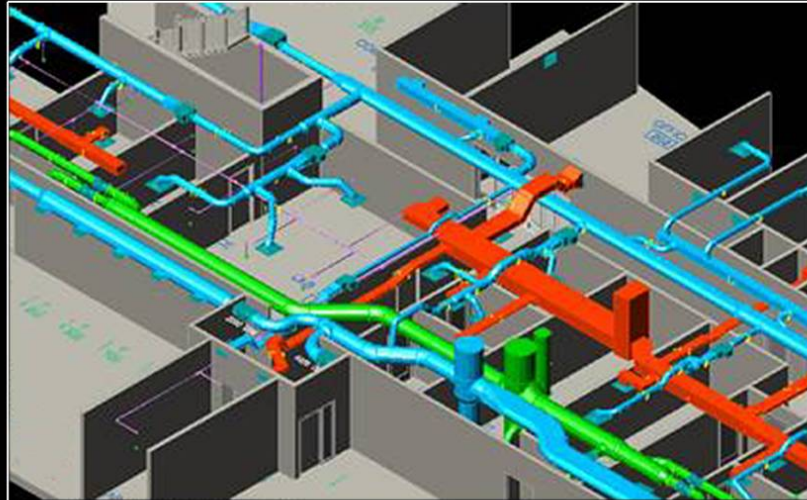
Unsatisfactory sightlines



Satisfactory sightlines

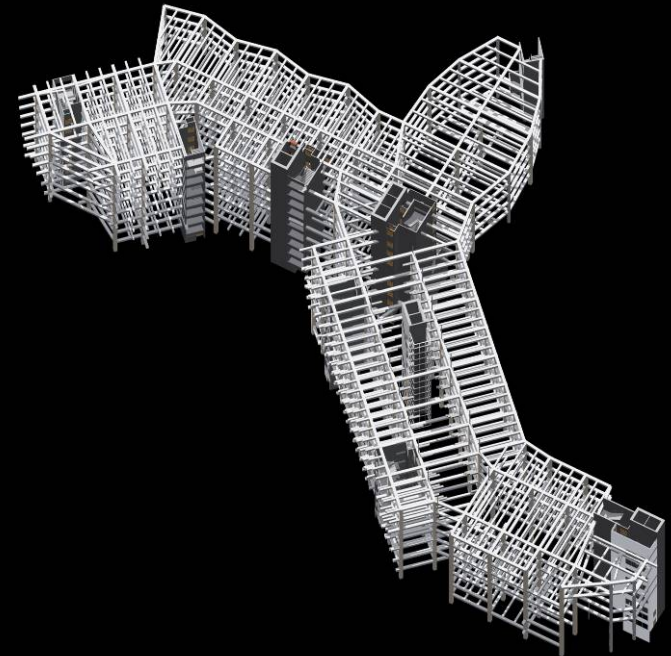
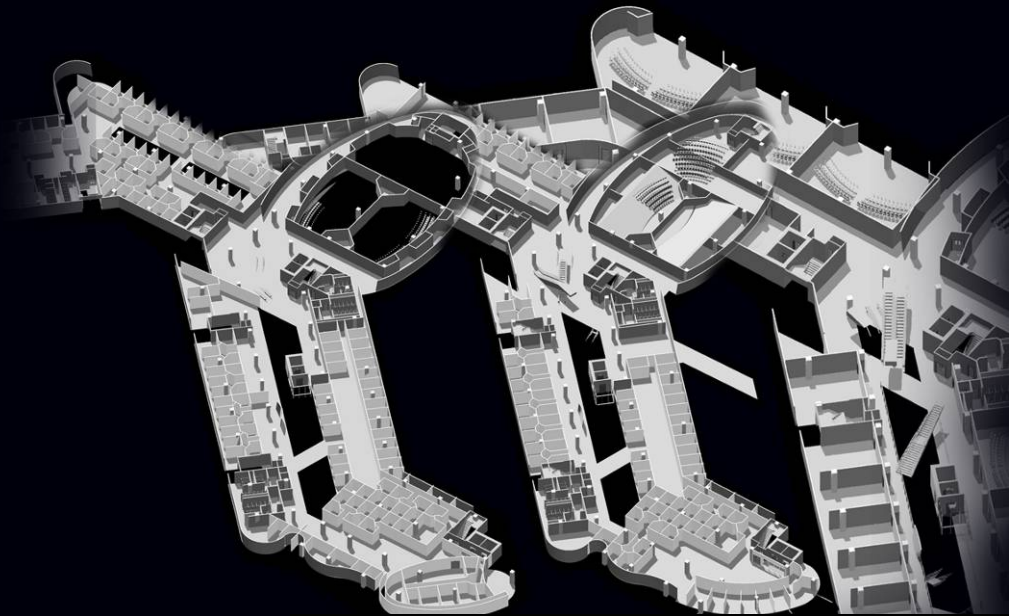
Radiating Light Method



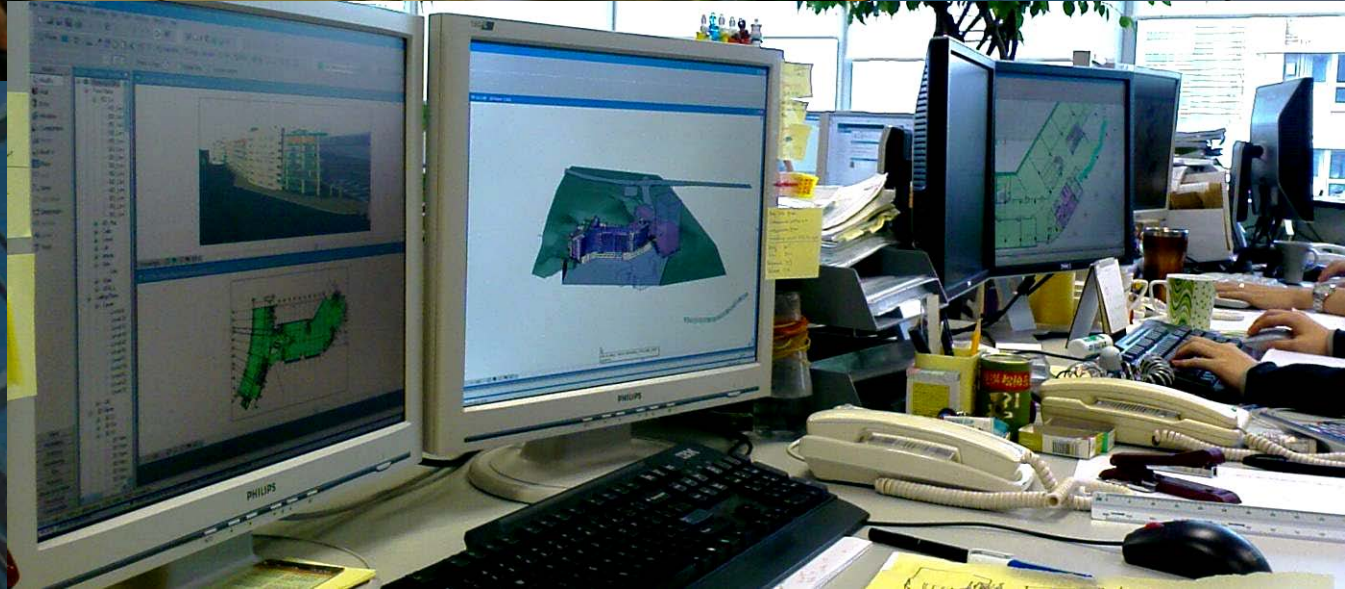


Clash Analysis
Full set of construction
Combined Services Drawings
produced

Close-up collaboration

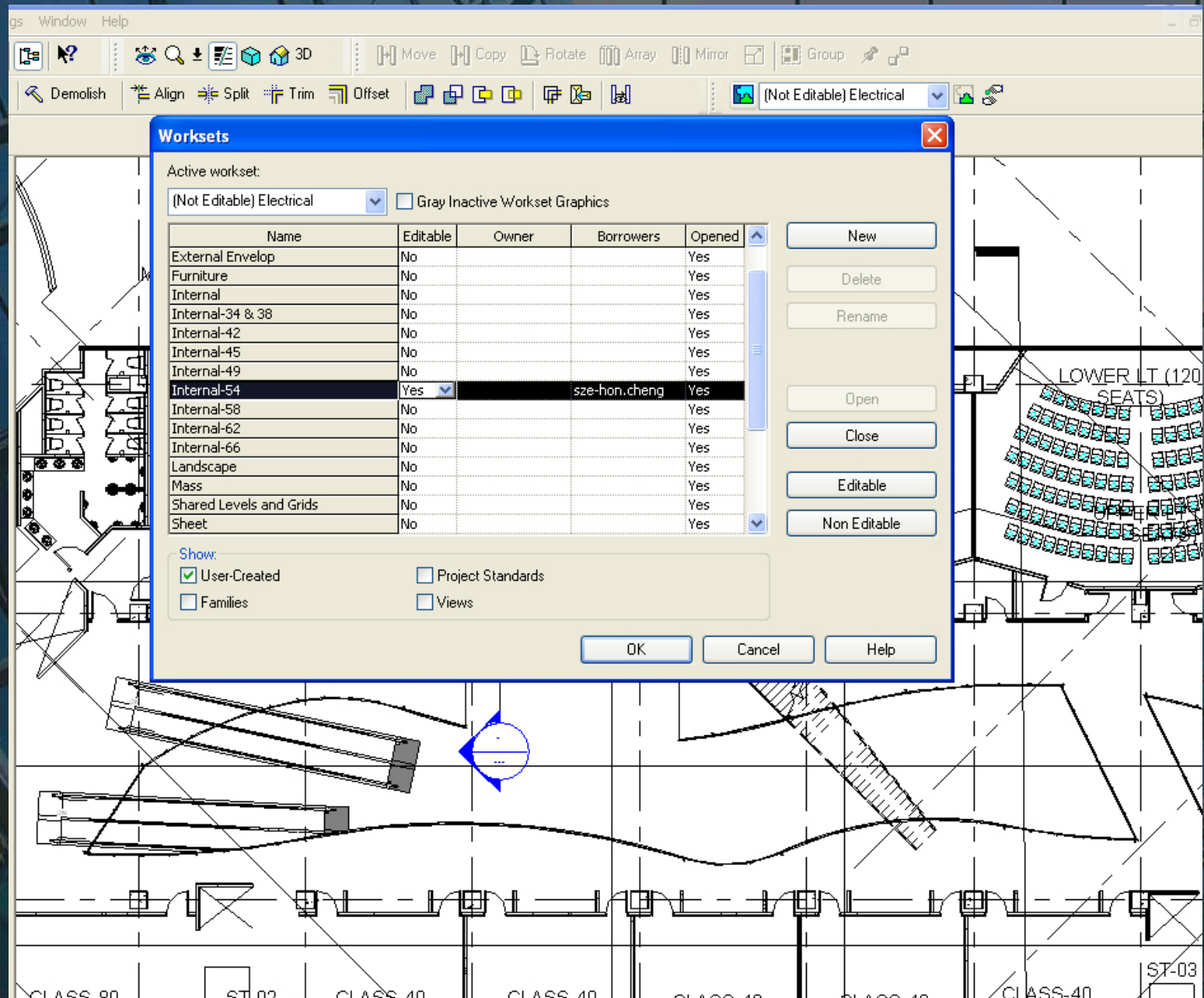


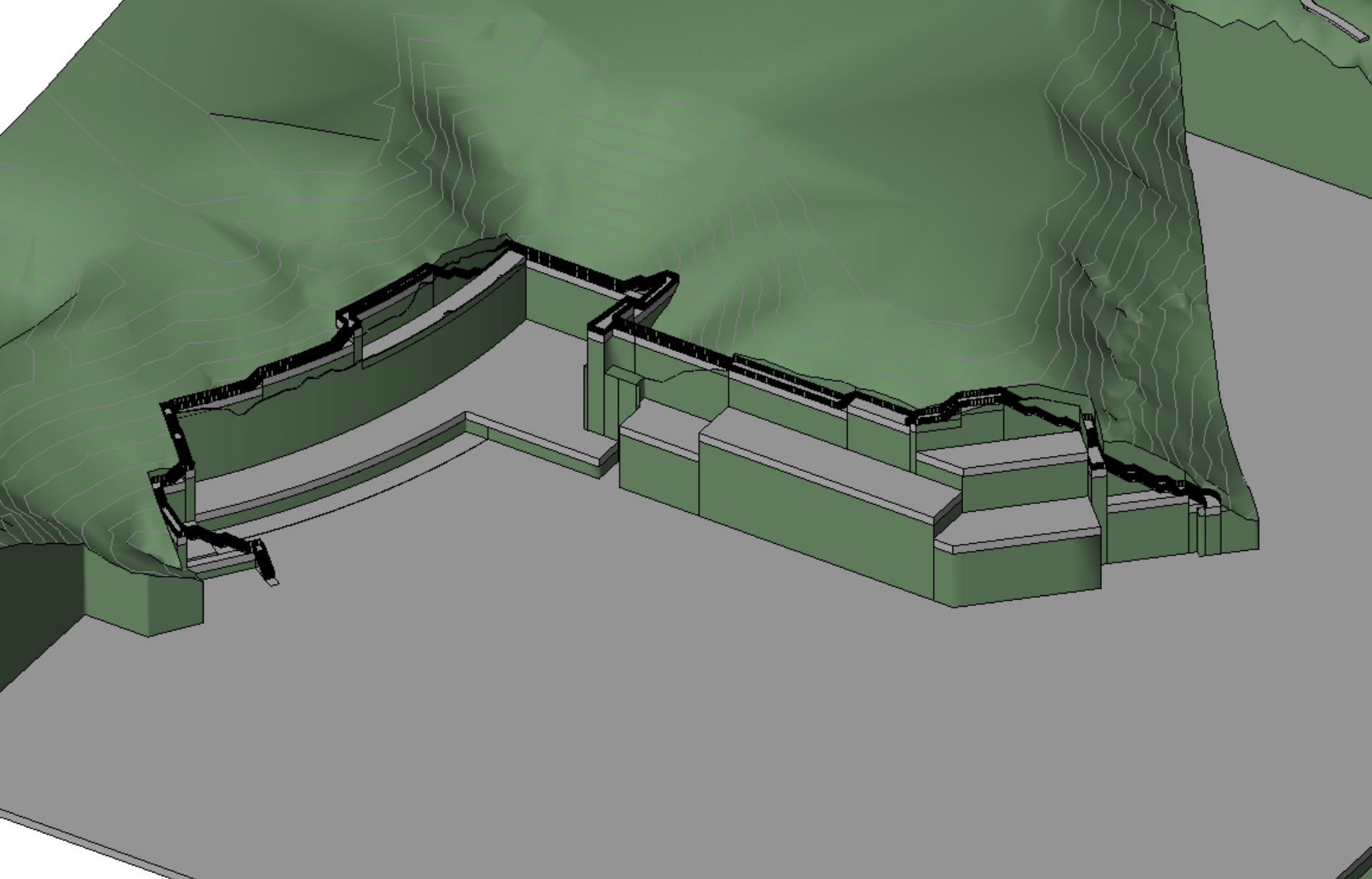
Wall Schedule							
Family	Family and Type	Length	Width	Count	Area	Volume	
Basic Wall: AED-Concrete - 50mm + Render One sides							
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.548 m2	0.027 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.548 m2	0.027 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.548 m2	0.027 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.548 m2	0.027 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.548 m2	0.027 m3	
0.548 m2: 5		1000		5	2.738 m2	0.137 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.578 m2	0.029 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.578 m2	0.029 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.578 m2	0.029 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.578 m2	0.029 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.578 m2	0.029 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.578 m2	0.029 m3	
0.578 m2: 6		1200		6	3.465 m2	0.173 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.608 m2	0.030 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.608 m2	0.030 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.608 m2	0.030 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.608 m2	0.030 m3	
0.608 m2: 4		800		4	2.430 m2	0.122 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.638 m2	0.032 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.638 m2	0.032 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	200	50	1	0.638 m2	0.032 m3	
0.638 m2: 3		600		3	1.913 m2	0.096 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	250	50	1	0.730 m2	0.037 m3	
Basic Wall	Basic Wall: AED-Concrete - 50mm + Render One sides	250	50	1	0.730 m2	0.037 m3	
0.730 m2: 2		500		2	1.460 m2	0.073 m3	

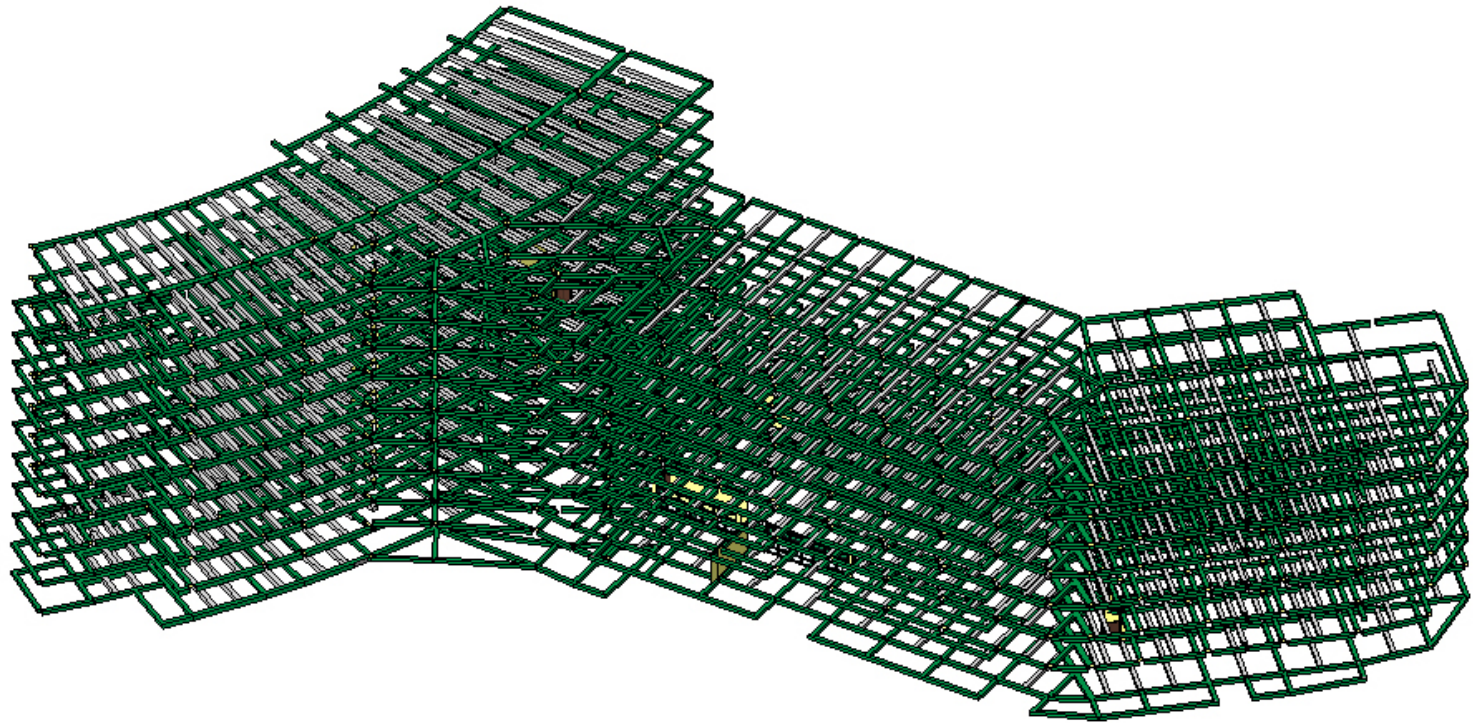


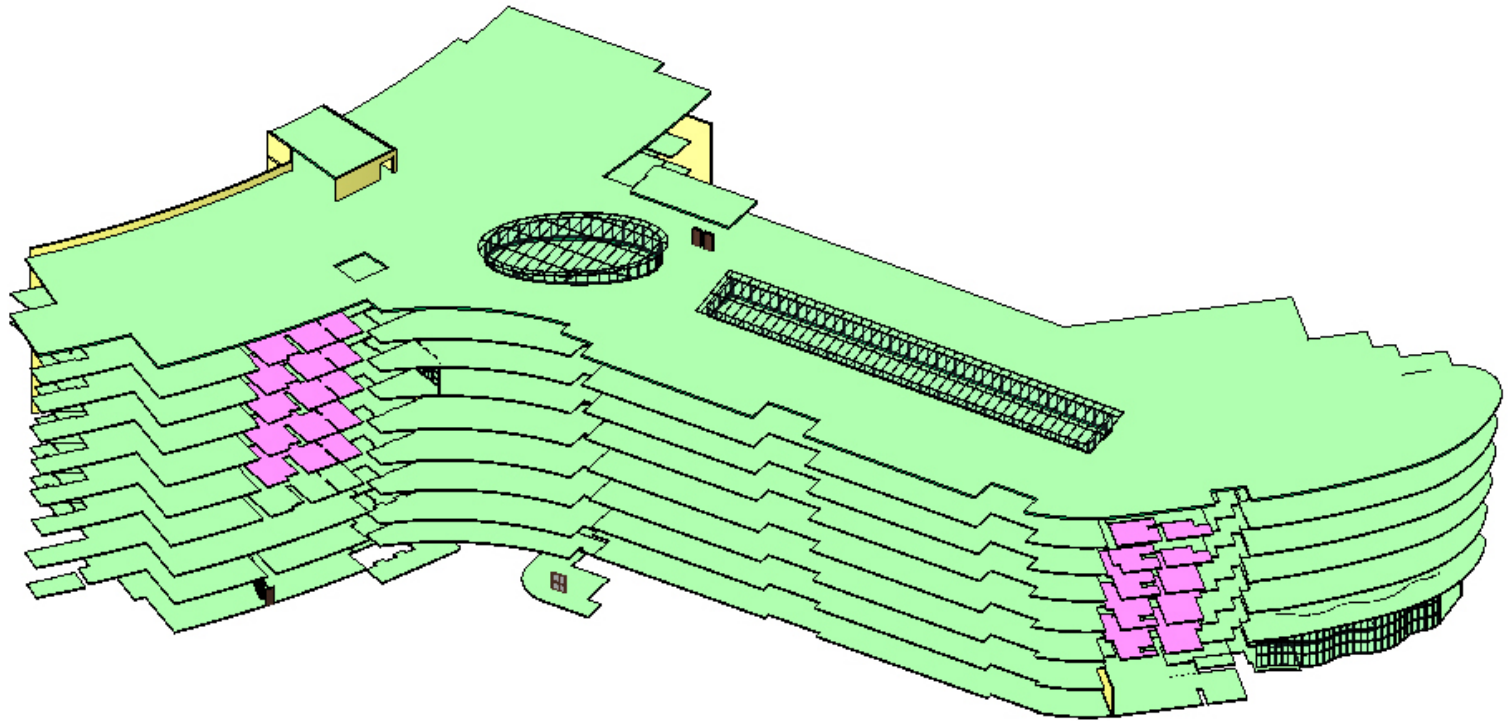
BIM in Action

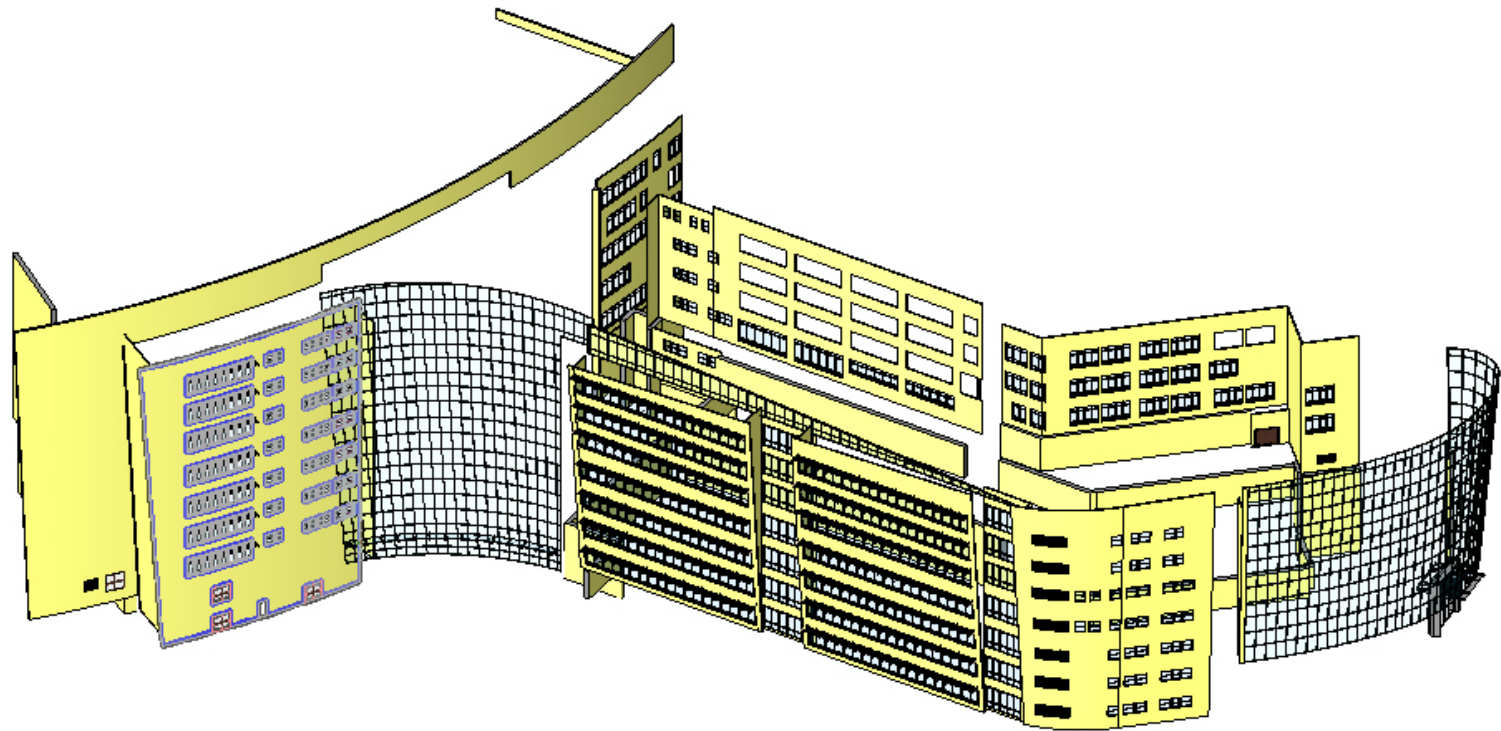
TEAM WORK

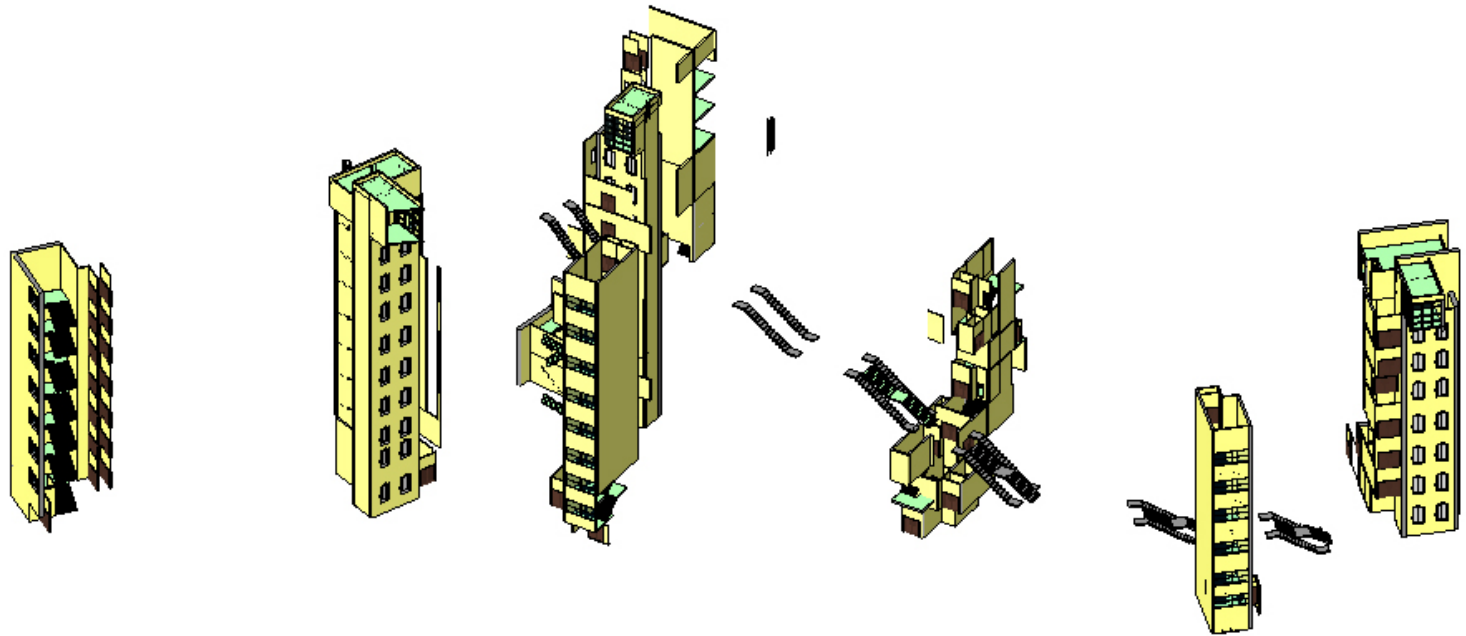


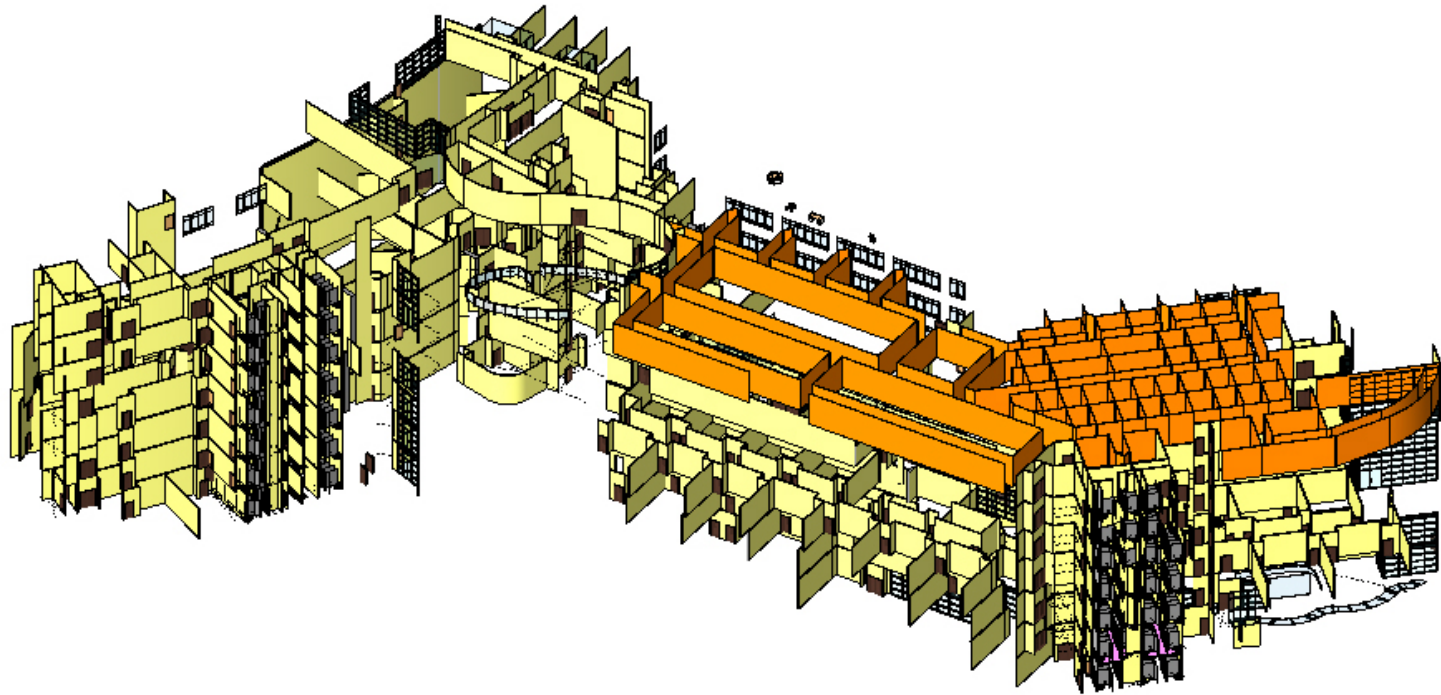


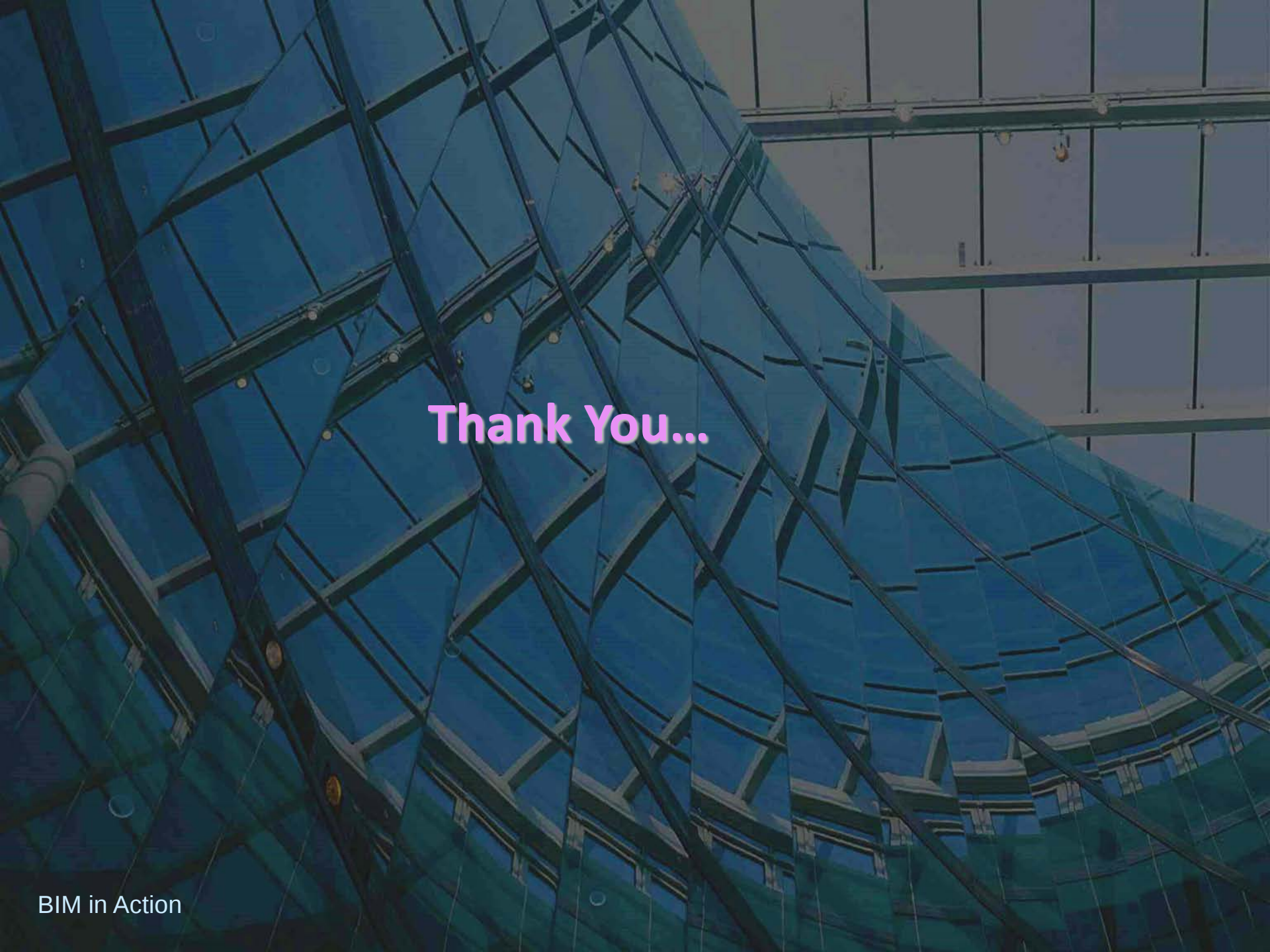












Thank You...