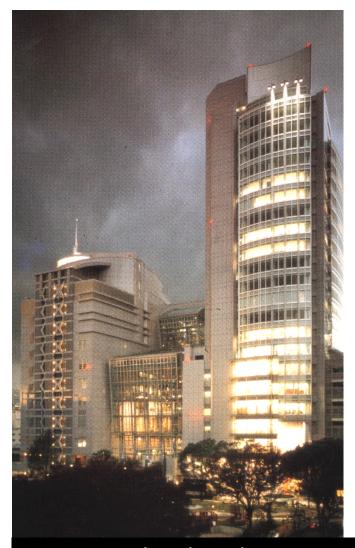


Information Technology, Broadcasting, Entertainment + Culture



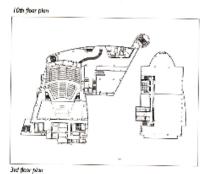
Experiences



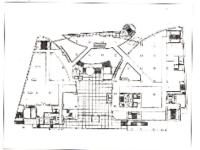


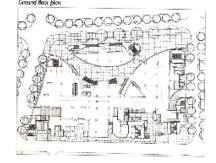


- -1 Efficient Stacking of Program while creating synergies between program elements with energetic soaring atrium
- -2 Elevator pedestrians to top with destination and descend via escalators to activate retail
- -3 Locating theater at the top provided cost savings on building systemes















Lessons Learned: Asia World Expo

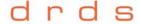
- -1 Long span structures to optimize venue flexibility
- -2 Building systems infrastructure to optimize venue flexibility
- -3 Clear pedestrian flow to optimize venue flexibility
- -4 Cost effective design to optimize construction cost





Lessons Learned: CIT 2, UCSD, California

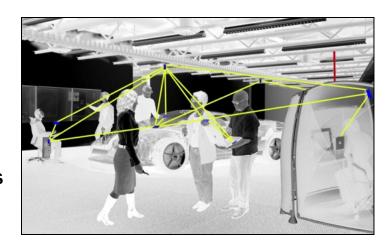
- -1 Bldg systems compatibility for ubiquitous environments
- -2 Creation of "Smart Barn" to maximize flexibility and future adaptations
- -3 Community of Discovery
- -4 High design with tight budget parameters





Technology Design Innovation

- Flexible Building Infrastructure
 Data / Power / Mechanical
- Spatial Units: Individual / Group
 Flexibility of Options
 Interaction & Human Element
- Material Technology Enablers
 Disablers
- Wireless-ness
 Extent = Approach
 Define Parameters
 Establish Zones





Technology Design Flexible Environments

Structural

Column free floors Steel

Mechanical

Design to accommodate program changes Non-metallic ductwork is plus

• Lighting Layouts

Uniform coverage
Wireless controls in future

• Fire Suppression

Keep it out of the wireless zone Concealed heads



Technology Design Wireless Material Transmissity

Attenuation Through Materials (900MHz)

Floor Construction

 Glass Wall (no film/coat) 	0 to 2dB
Brick Wall	2 to 4dB
Cinder Block	3 to 4dB
Office Wall	4 to 9dB
Metal Door	9 to 12dB

10 to 15 dB



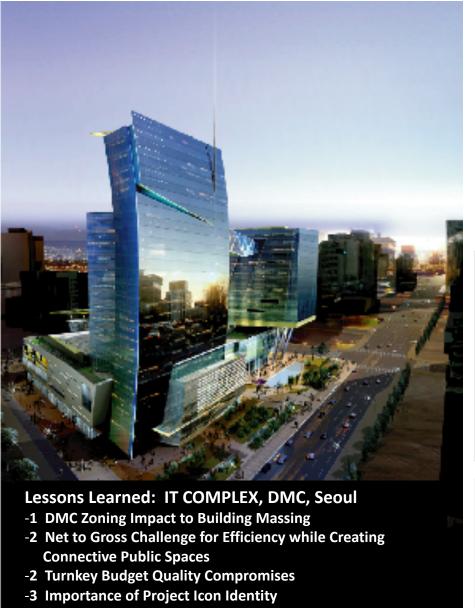


Intelligent Building Systems & Sustainability

- Structural
 Column Efficiency/ Lateral Design
- Exterior Skin
 Solar Gain Control
 Insulation
- Mechanical Energy Management System Design to accommodate change
- Lighting
 Natural Light/ Uniform coverage
 Wireless controls in future
- Green Roof
- Landscape Micro-climates
- Interior Non-toxic Materials
- Security



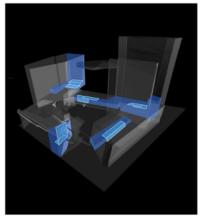




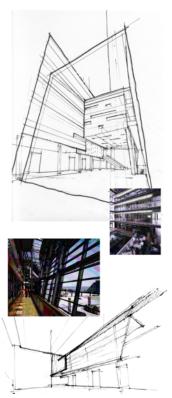




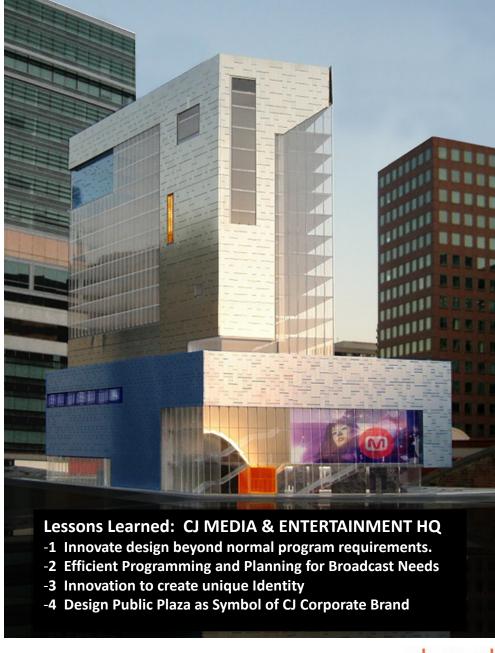
IT COMPLEX, DIGITAL MEDIA CITY, SEOUL, KOREA

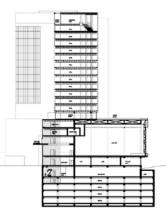














CJ HEADQUARTERS & BROADCASTING STUDIOS, SEOUL, KOREA

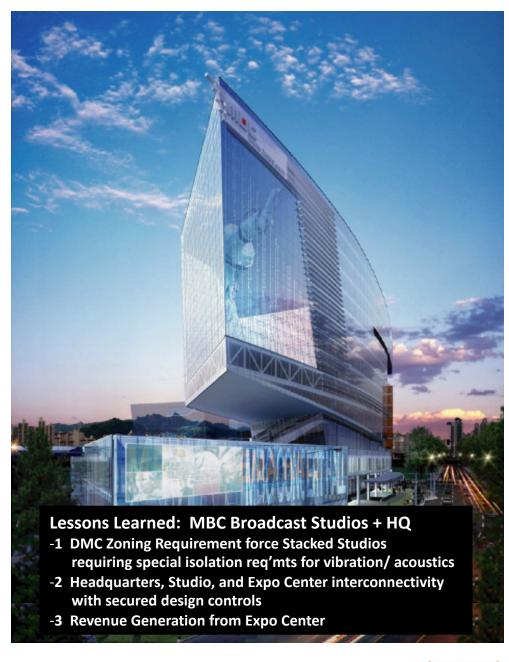


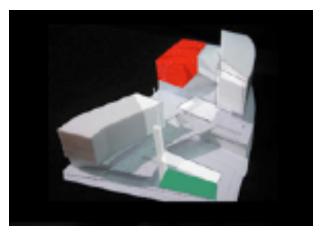










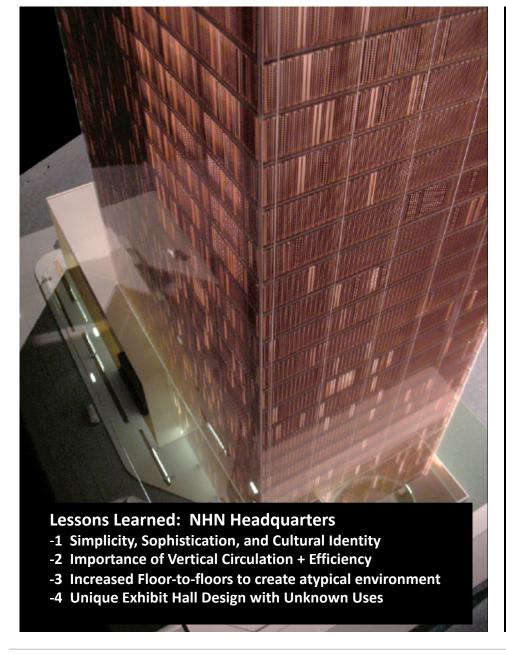


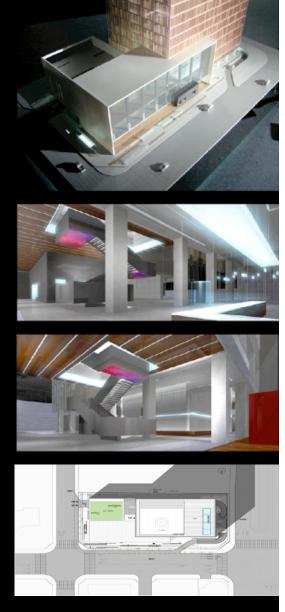






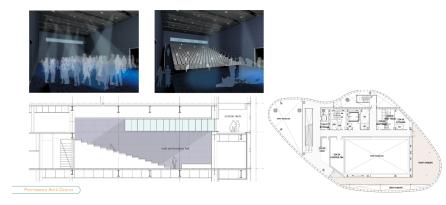
















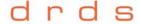


IT Project Goals



IT Complex Client Goals

- Civic Image- "IT SEOUL"
- IT Experiences
 - Zones for Variety of Experiences
 - Exhibition
 - Performance Facility (E-Sports major attraction)
 - Central Common Space
- Functional Facilities
 - Infra Facility (Separation of Public + Private)
 - Broadcast Facility
 - Animation Center
- General Goals
 - Strong Independence by Sector + Characteristics
 - Improve Efficiency through Shared Common Spaces
 - Connectivity + Activation of DMC Pedestrian Street
 - Planned Flexibility + Adaptability
 - Eco-Friendly, Energy Efficient (Natural Light + Ventilation)



Program



Seoul IT Center (SITC)

6,600 SM

- U-City Management Center
- GIS Center
- Second Data Center
- U-Integrated Security Center
- WeGA

Seoul Cultural Contents Center (SCC) 3,770 SM

• Digital Contents Creation Zone

Seoul Media Center

13,646 SM

- Broadcasting Support Zone
- Broadcasting Production Zone

Subtotal 24,016 SM

drds



Seoul IT World: Ubi-Seoul Experience Info. Center 1,500 SM

- U-Business
- U-Government
- U-Transport, U-Fun
- U-Green, U-Care, U-GIS
- WeGA

U-EXPO 1,200 SM

- Convention Center
- Digital Show Room

Digital Theater

1,050 SM

- Digital Theater (200 Seats)
- 4D Theater (50 Seats)
- Subsidiary Room

drds



Seoul IT World: Digital Amusement Place

5,060 SM

- E-Sport Stadium
 - Main Stadium 500 Seat
 - Auxiliary Stadium 150 Seats
- Joy Museum + Library
- Technology Bar

Multipurpose Hall

1,800 SM

Multipurpose Hall (500 Seats)

Welfare & Convenience

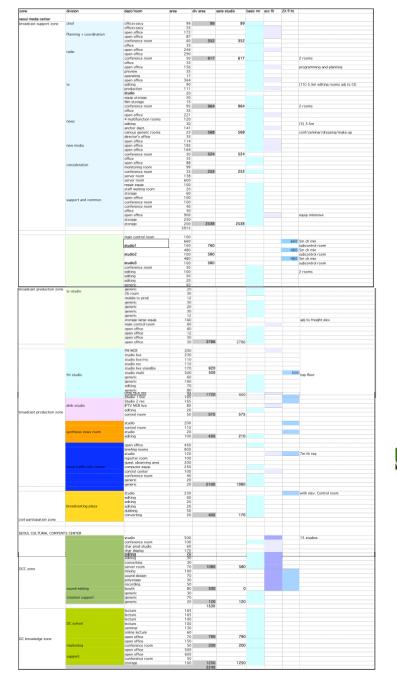
1,865 SM

- Office & Attached Facilities
- Restaurant
- Fitness Club
- Cafeteria
- Daycare Center
- Restrooms
- Storage

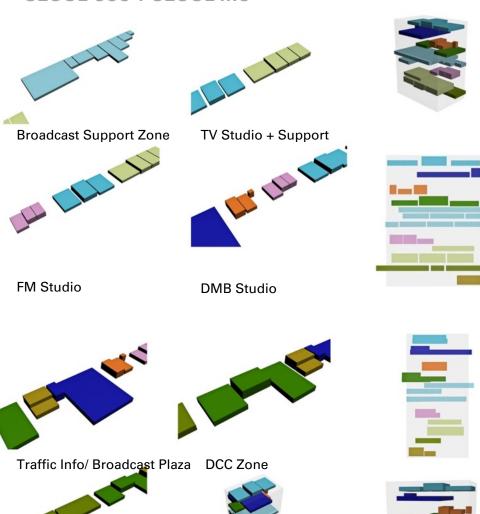
Subtotal 13,275 SM



Program Analysis



SEOUL CCC + SEOUL MC



Program Stacking Diagrams



DC Knowledge Zone



SEOUL IT PROGRAM DESIGN OPPORTUNITIES

Seoul IT Center (SITC)

6,600 SM

- U-City Management Center (U-Seoul Exhibition)
- GIS Center
- Second Data Center
- U-Integrated Security Center
- WeGA

Seoul Cultural Contents Center (SCC)

3.770 SM

Digital Contents Creation Zone (Two Open Studios)

Seoul Media Center

13,646 SM

- Broadcasting Support Zone
- Broadcasting Production Zone

Ubi-Seoul Experience Info. Center

1,500 SM

- U-Business
- U-Government
- U-Transport, U-Fun
- U-Green, U-Care, U-GIS
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- Office & Attached Facilities
- Restaurant
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- Daycare Center
- Restrooms
- Storage



Urban Context

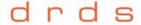


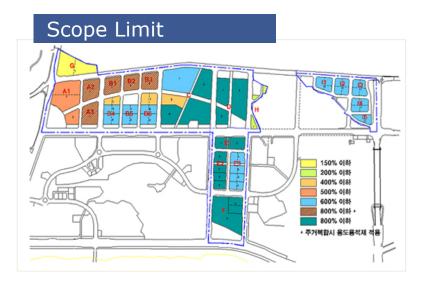
Digital Media City Vision

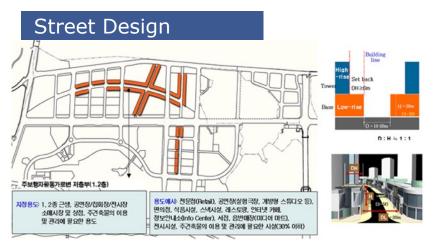
On the last undeveloped expanse of land in Seoul - the world's most wired city - a gateway to tomorrow is under construction: Digital Media City. Our vision for this project is threefold. It is designed to be:

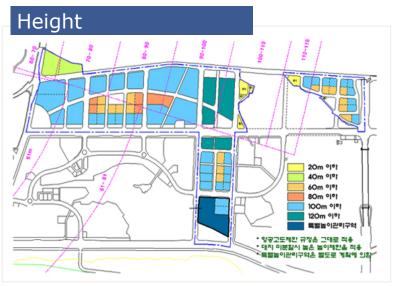
- The world's foremost production center for digital media content
- A world-class industrial-academic research center
- -The best business city in North East Asia."

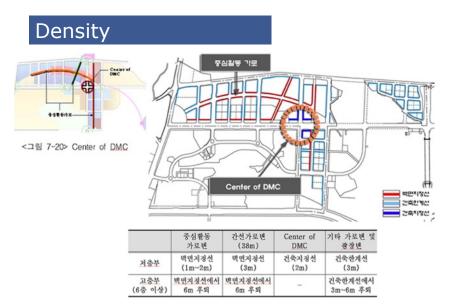
Lee Myung Bak, Mayor of Seoul

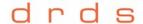


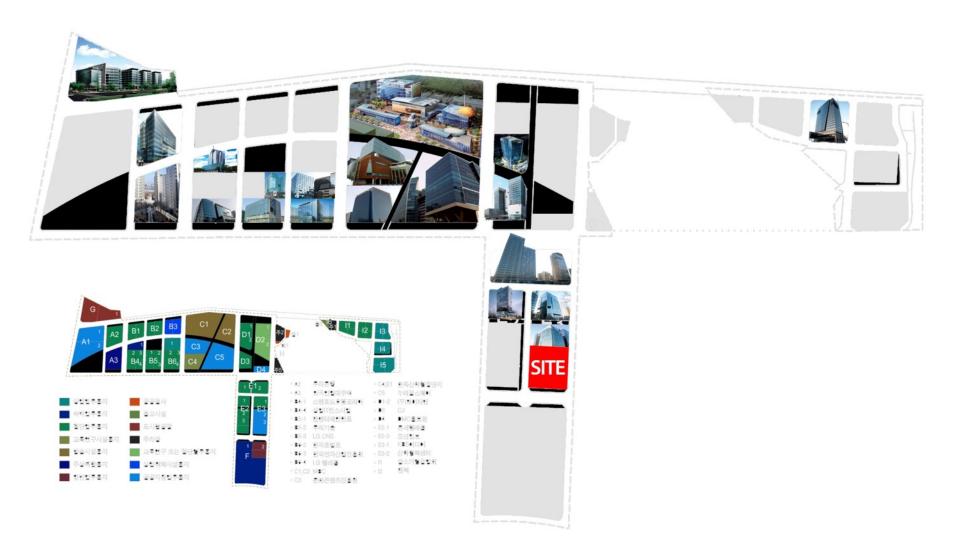












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Site Analysis

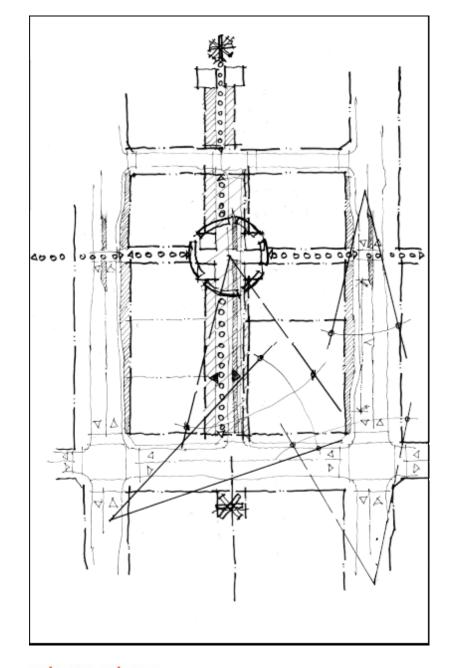


Setbacks
- 3 Meter Tower
Setback

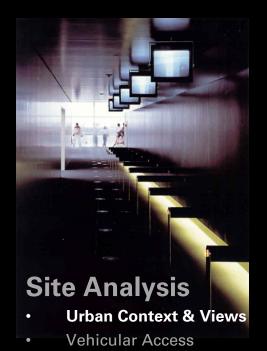
 3 Frontal Open Space (West)

Allowable FAR: 700 % Height Limit: 100 M

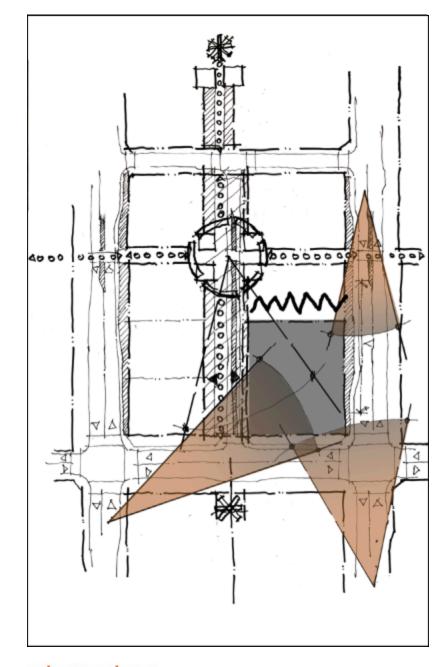
 No Setback at North



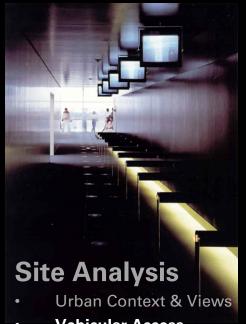
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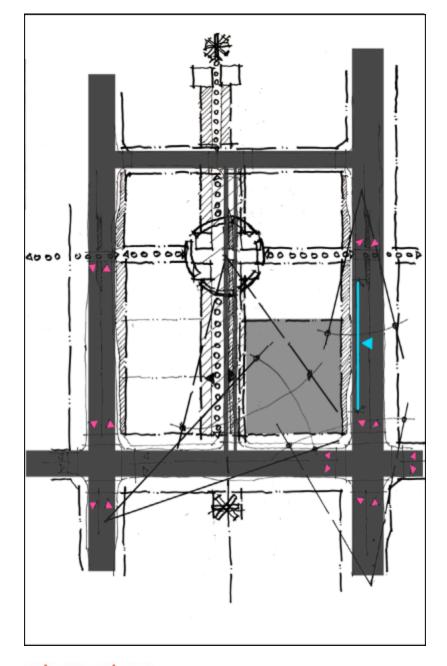
- Public
- Support
- Service
- Pedestrian Access + Flow
- Connectivity & Integration
 - DMC
 - IT Complex Program Components
- Building Location

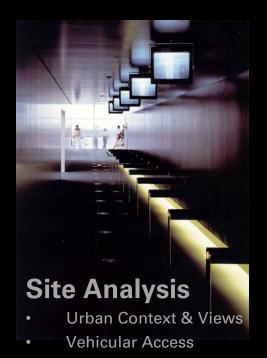


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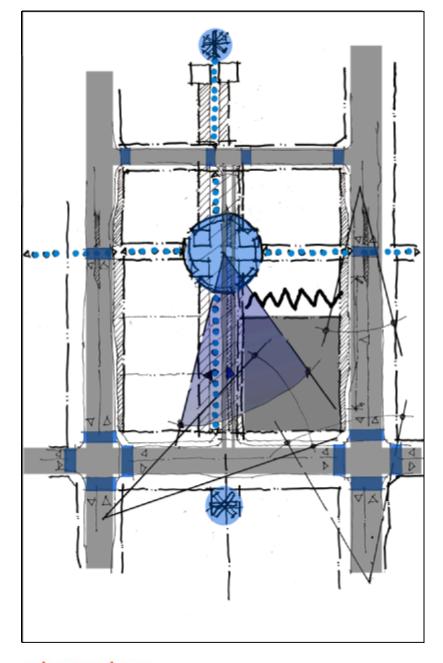


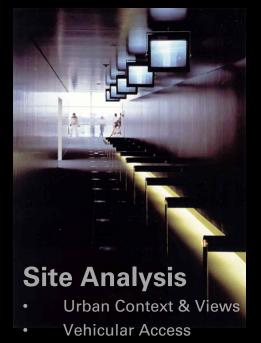
- Vehicular Access
 - Public
 - Support
 - Service
- Pedestrian Access + Flow
- Connectivity & Integration
 - DMC
 - IT Complex Program Components
- Building Location



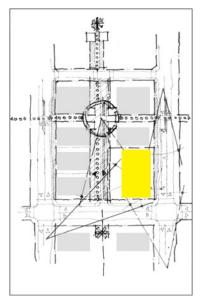


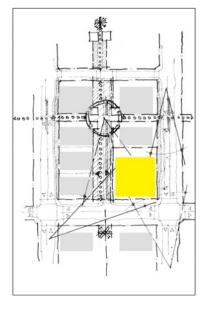
- Public
- Support
- Service
- Pedestrian Access + Flow
- Connectivity & Integration
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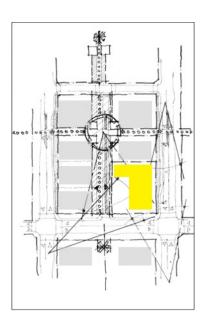


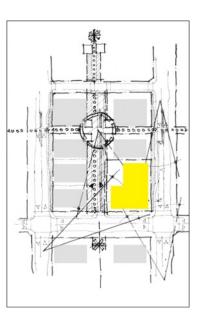


- Public
- Support
- Service
- Pedestrian Access + Flow
- Connectivity & Integration
 - DMC
 - IT Complex Program Components
- Building Location











Approach



IT Complex Design Goals

ARCHITECTURAL IMAGE

- Celebrate and Communicate the Program Functions
- Placemaking: IT Complex as Memorable Experience

• IT/ U-Experiences

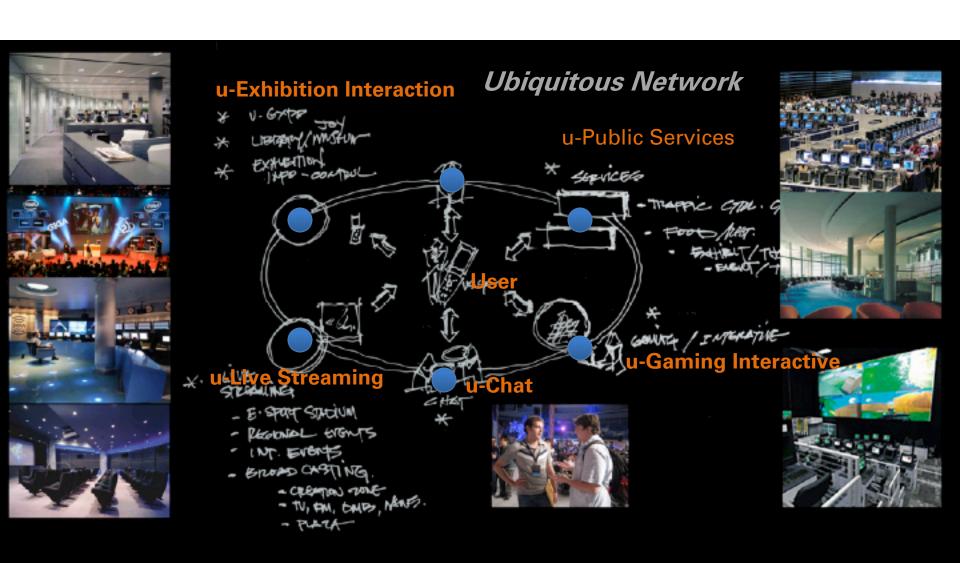
- Zones provide variety of EXPERIENCES both public, guests, and staff
- Unexpected- sense of DISCOVERY + INNOVATION
- Cybrids: Interaction of "Space" and "Technology"
- Pedestrian Destination at DMC Street

• Program Technical Efficiencies

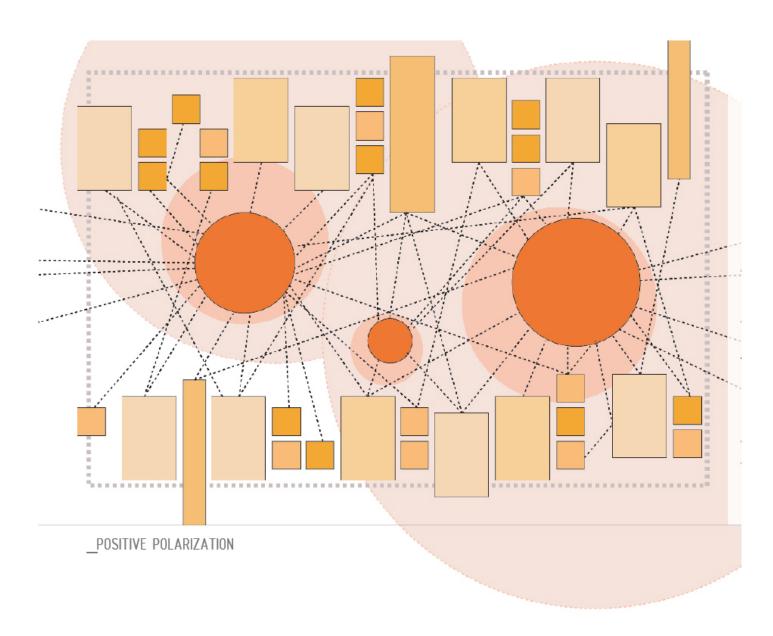
- Broadcast Facilities
- Exhibition and Cultural Venues
- Building Systems



What is the Ubiquitous Environment that will define IT Seoul?

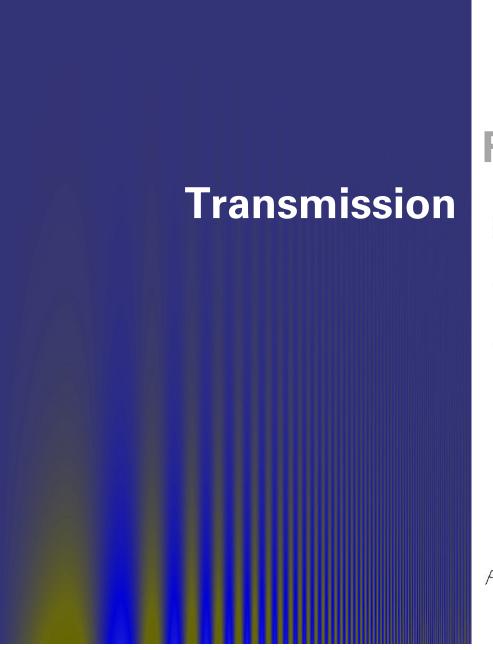


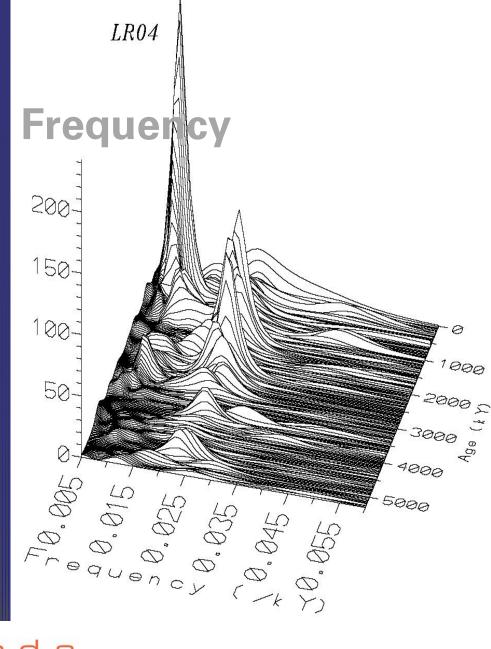
How can IT Seoul provide numerous Memorable Experiences?

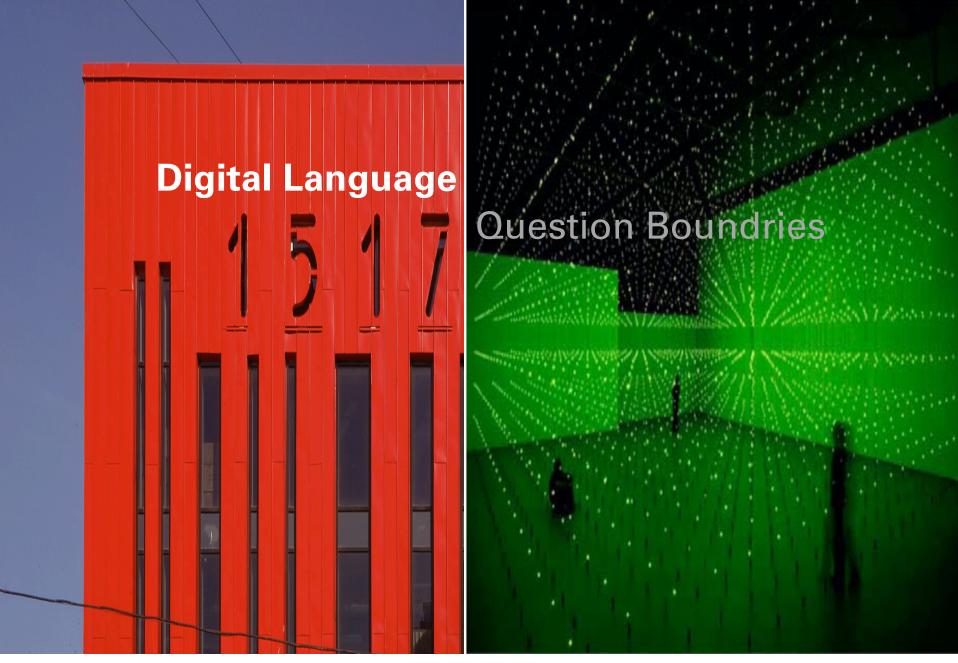


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What is the architectural response to enable the ubiquitous nature of IT Seoul?

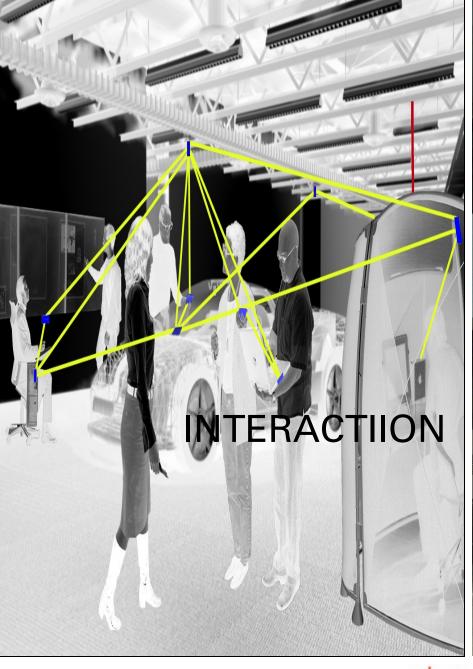


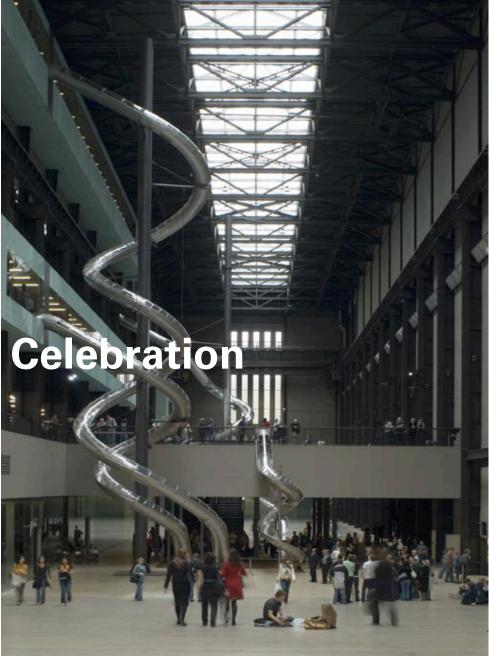






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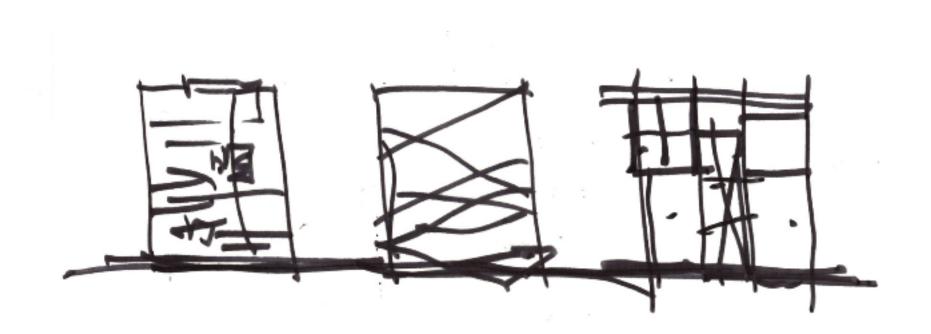






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Design Explorations







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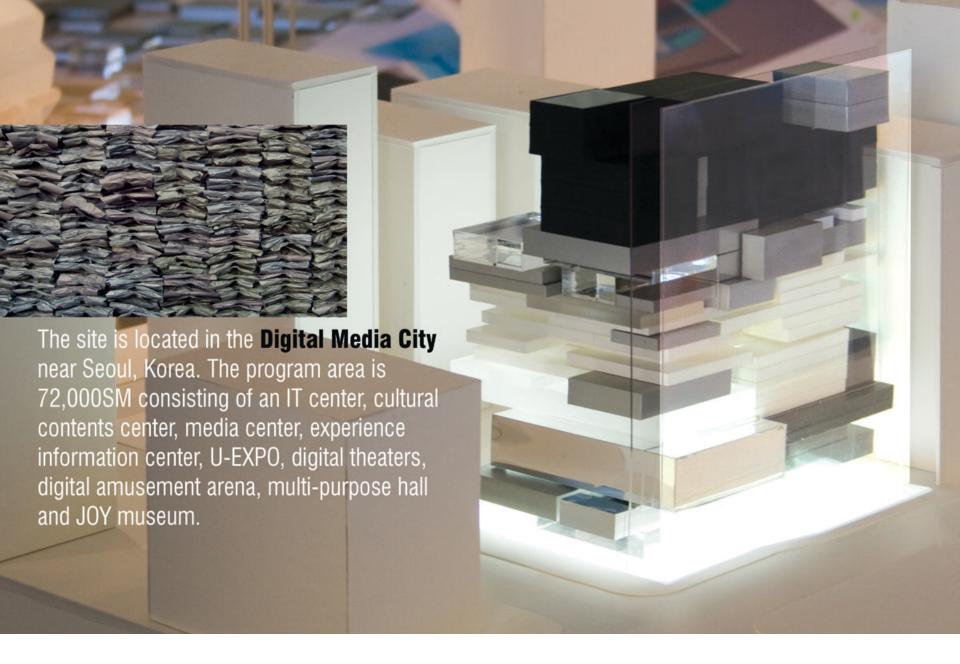


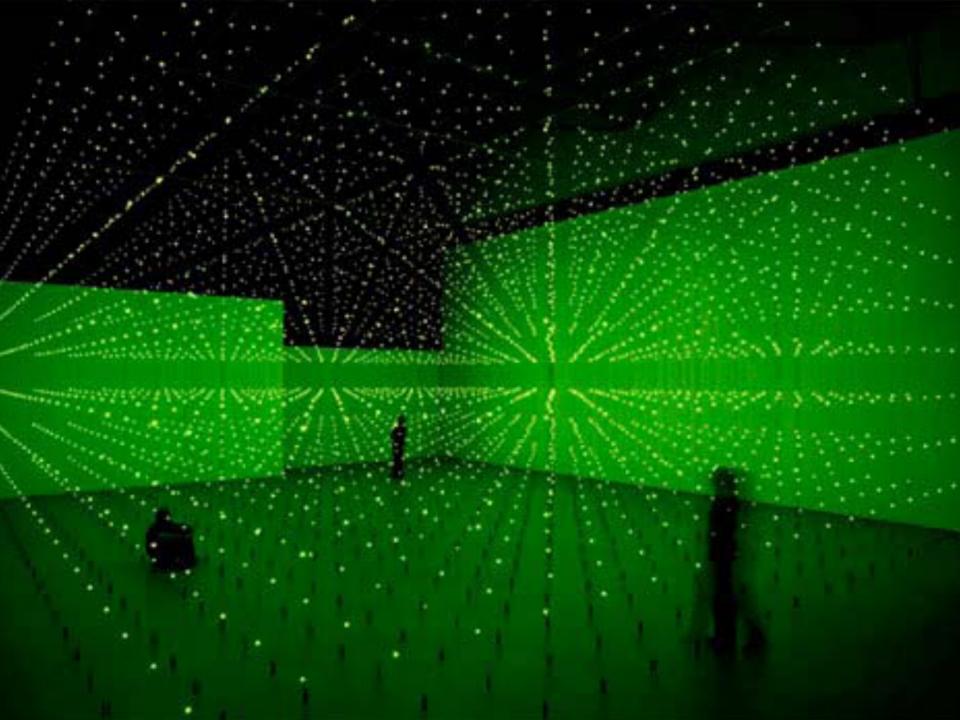


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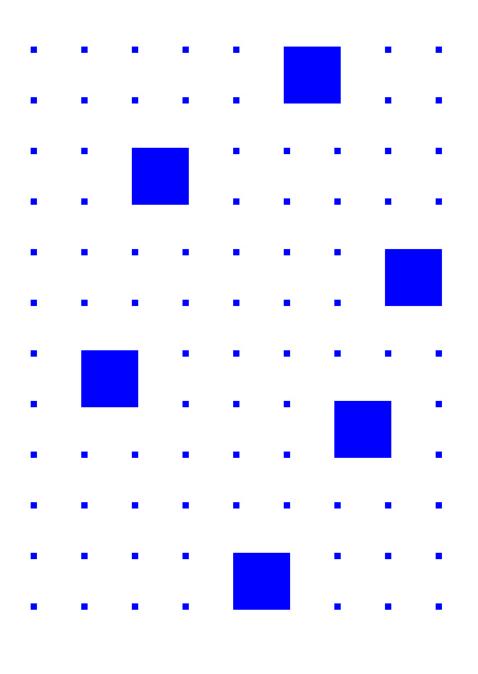


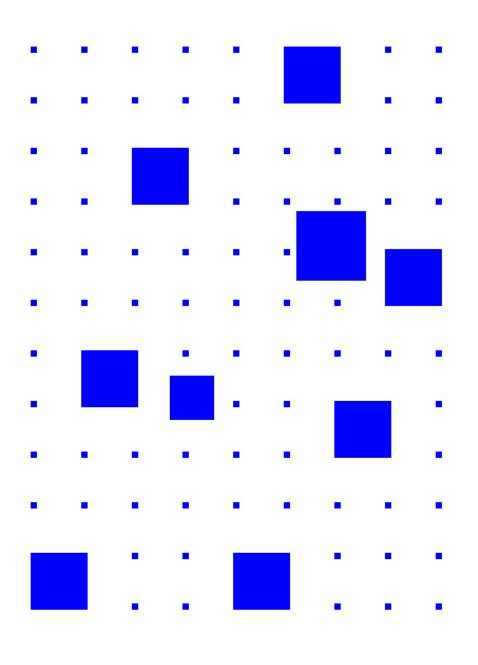
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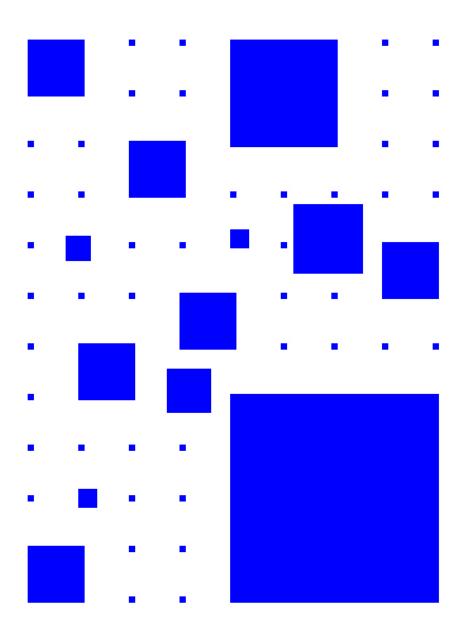


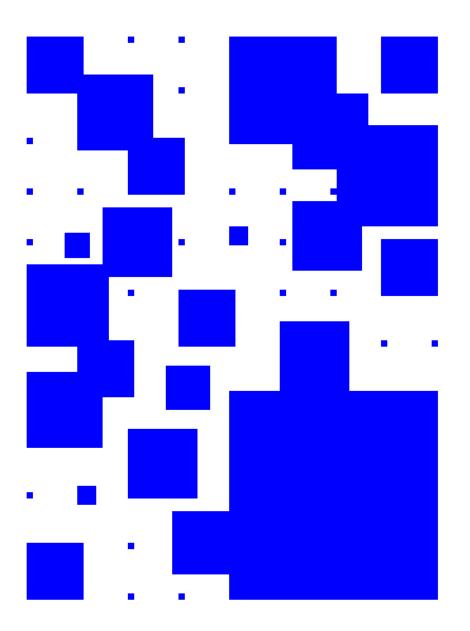


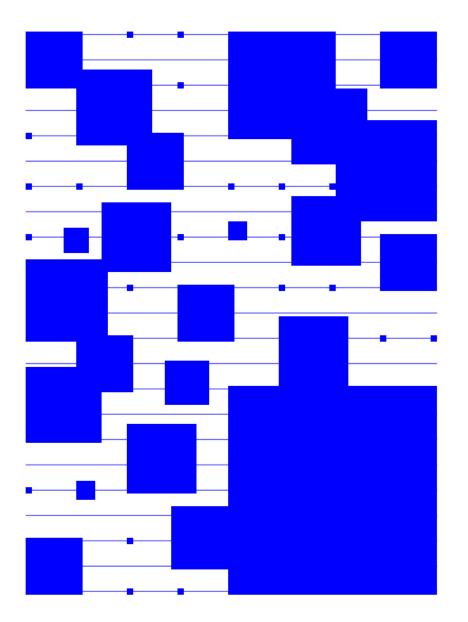
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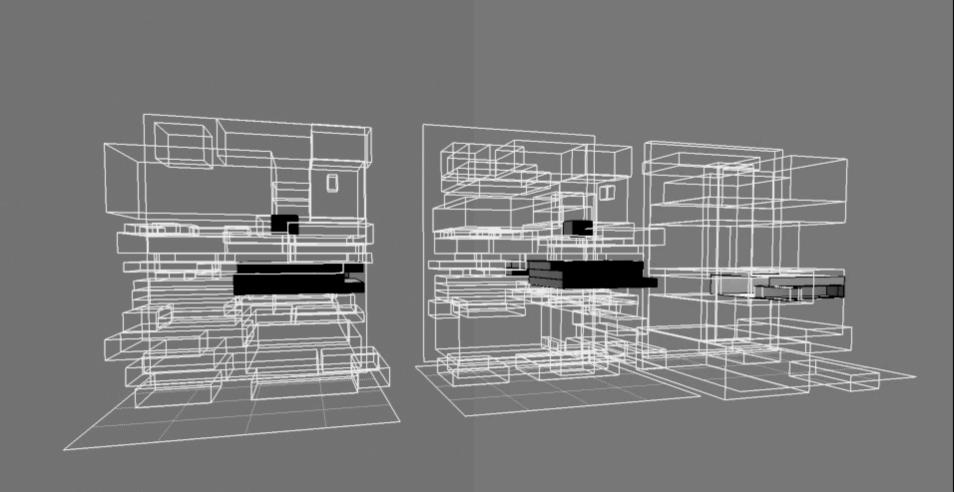


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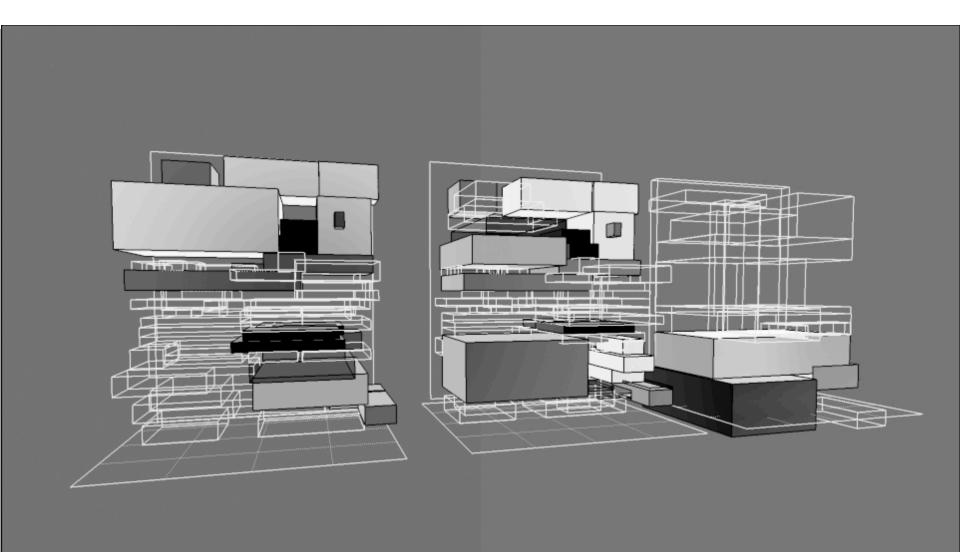


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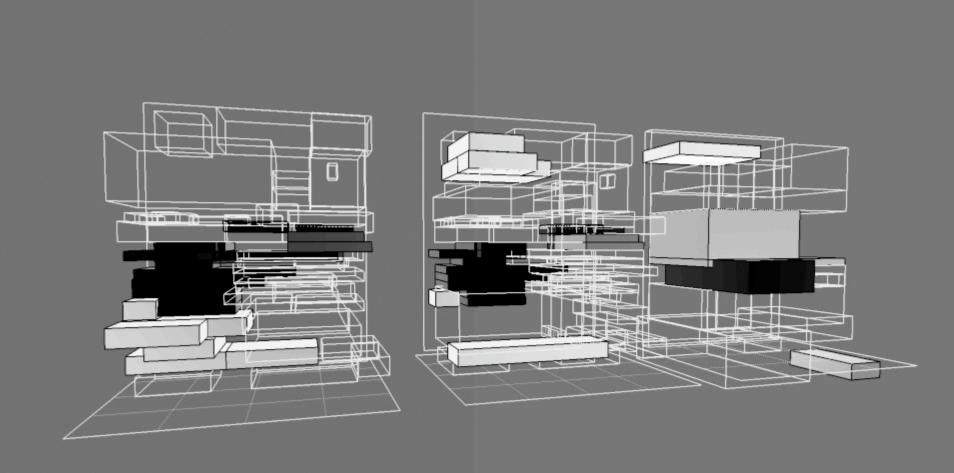


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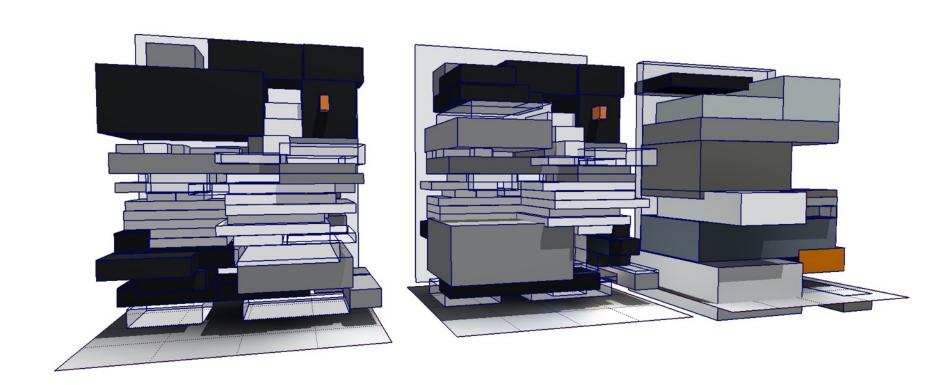
SMC

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Public Zones









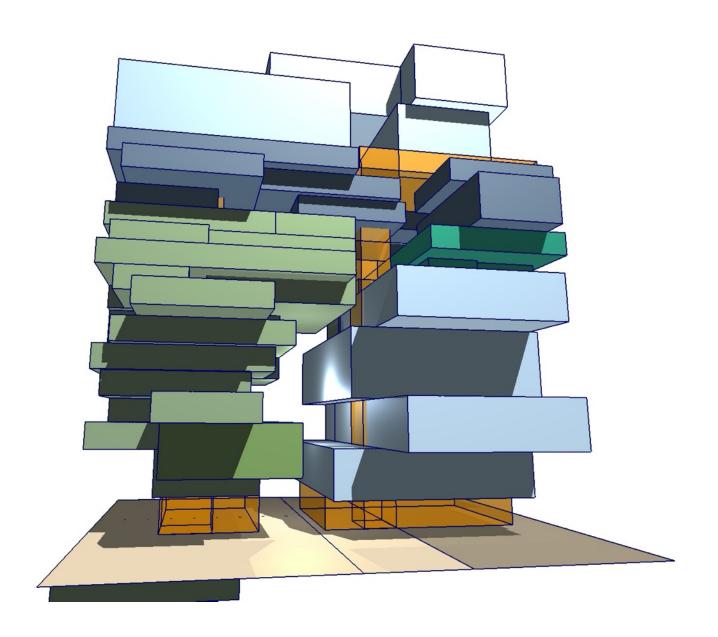




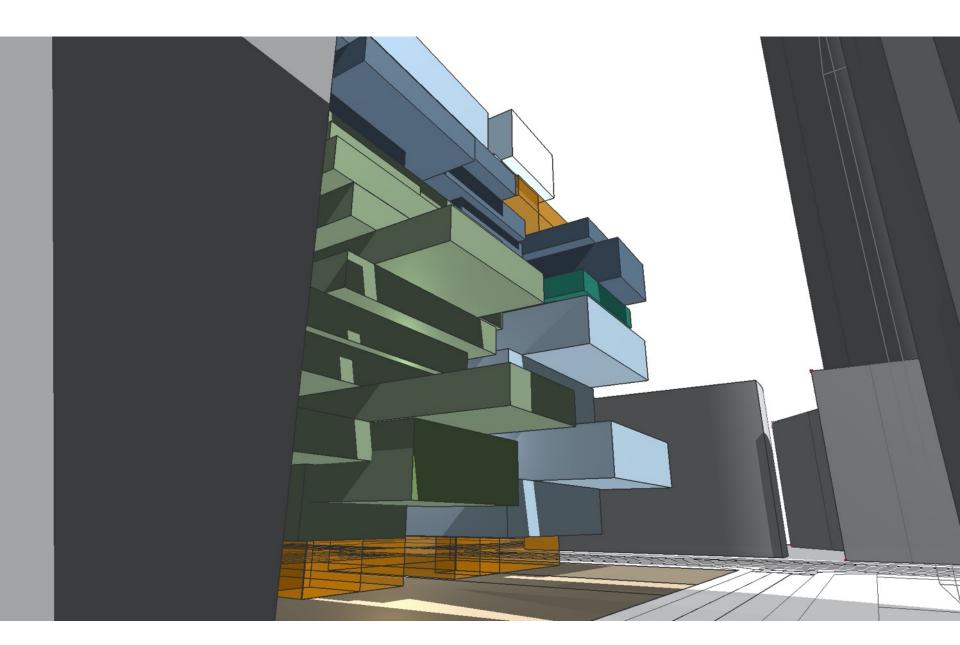








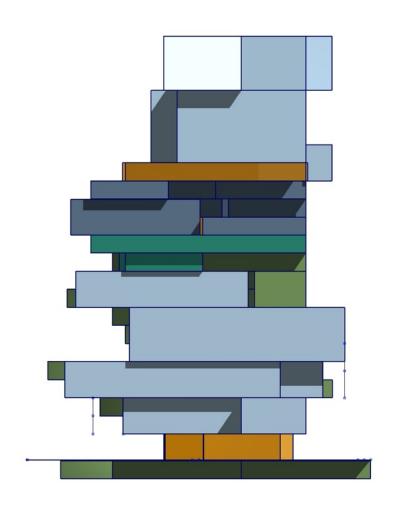
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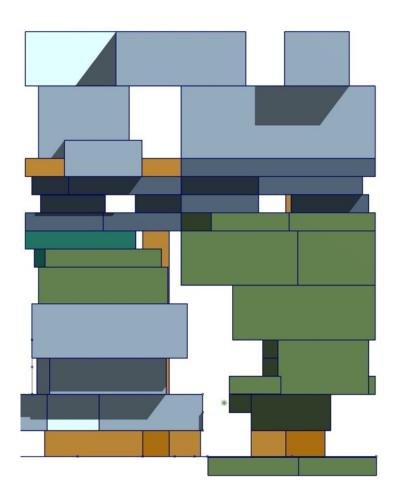


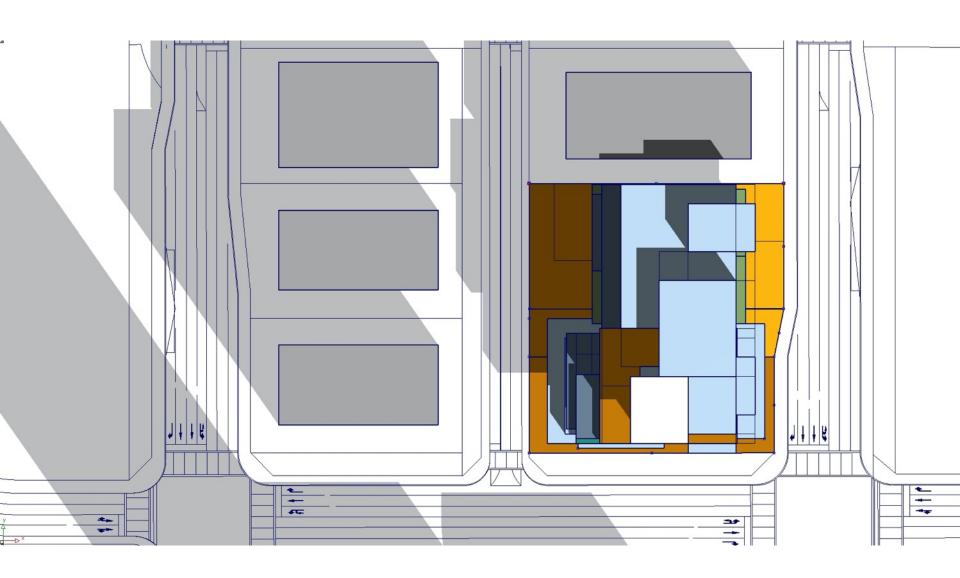
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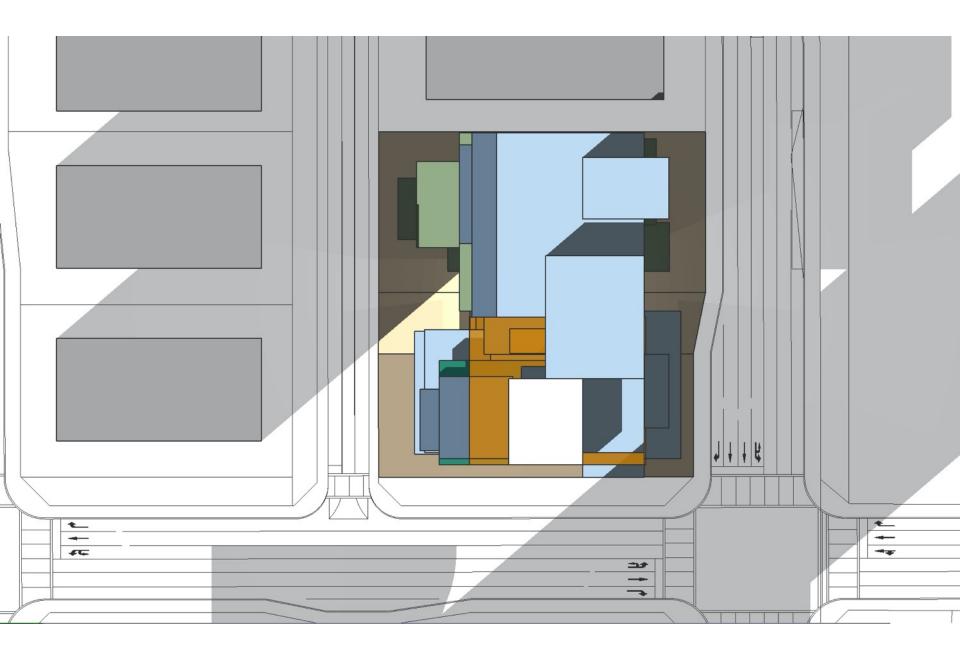
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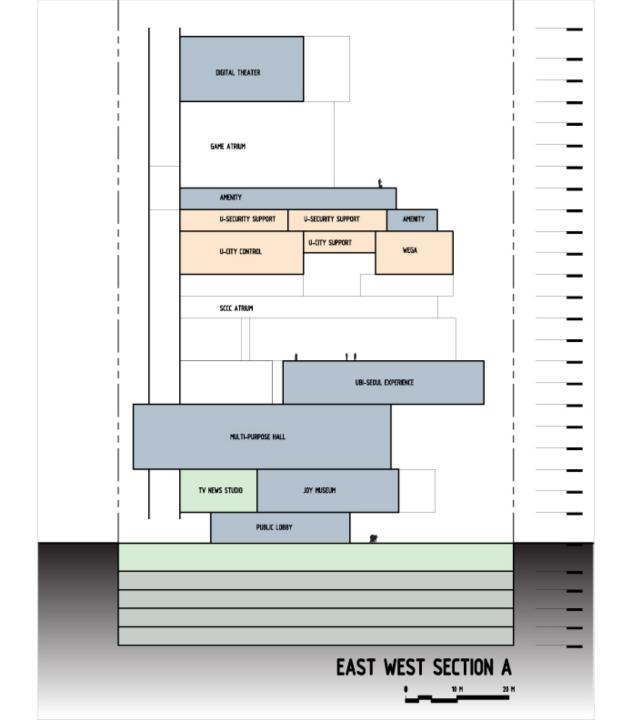


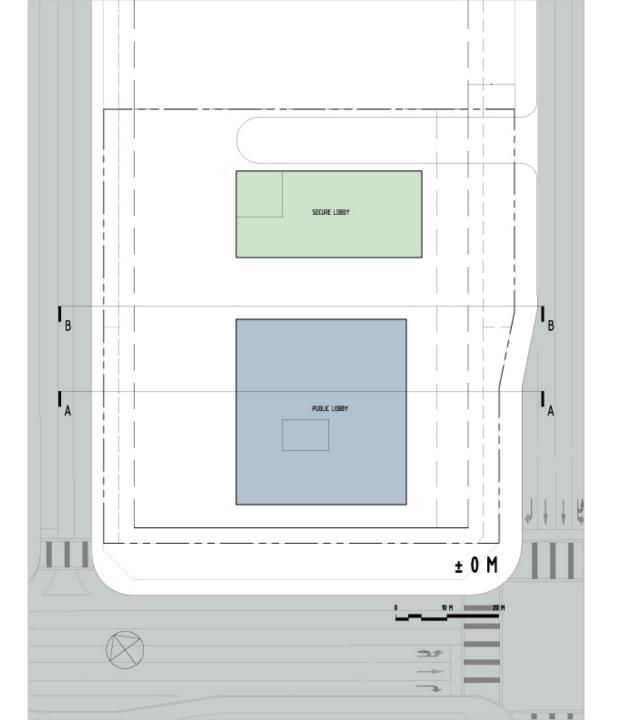


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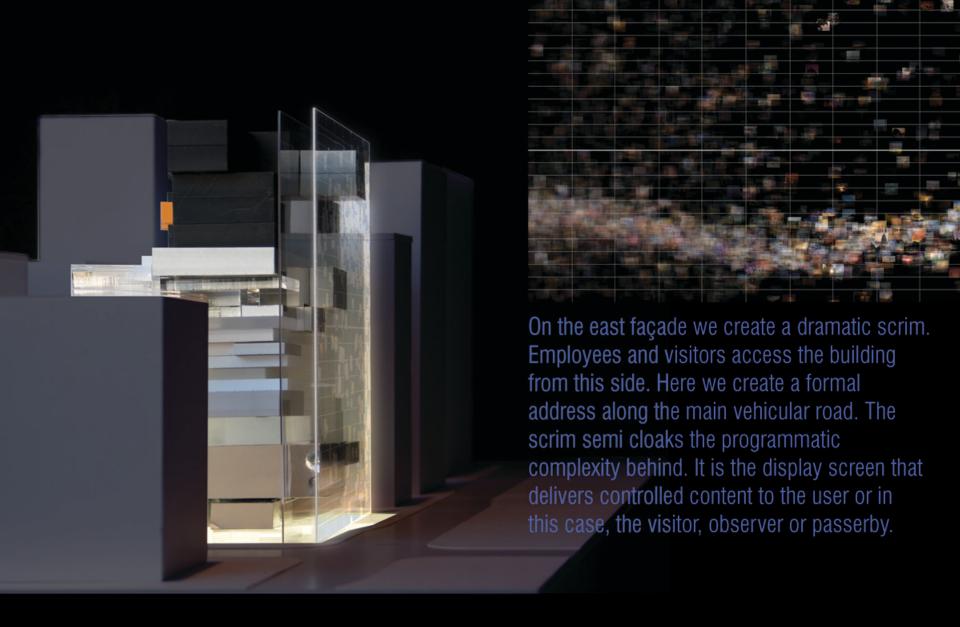


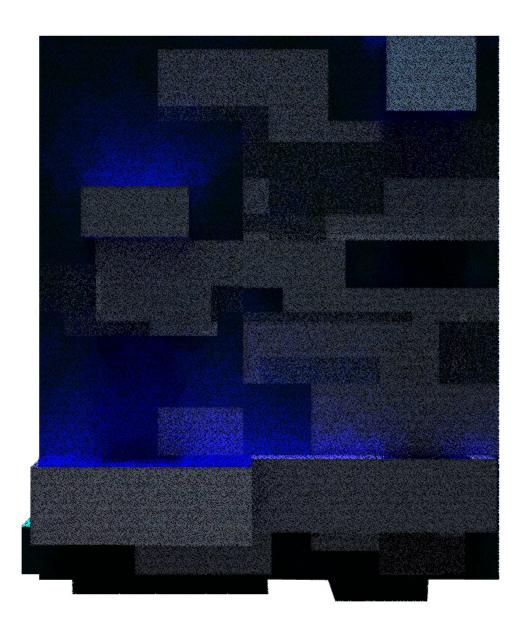




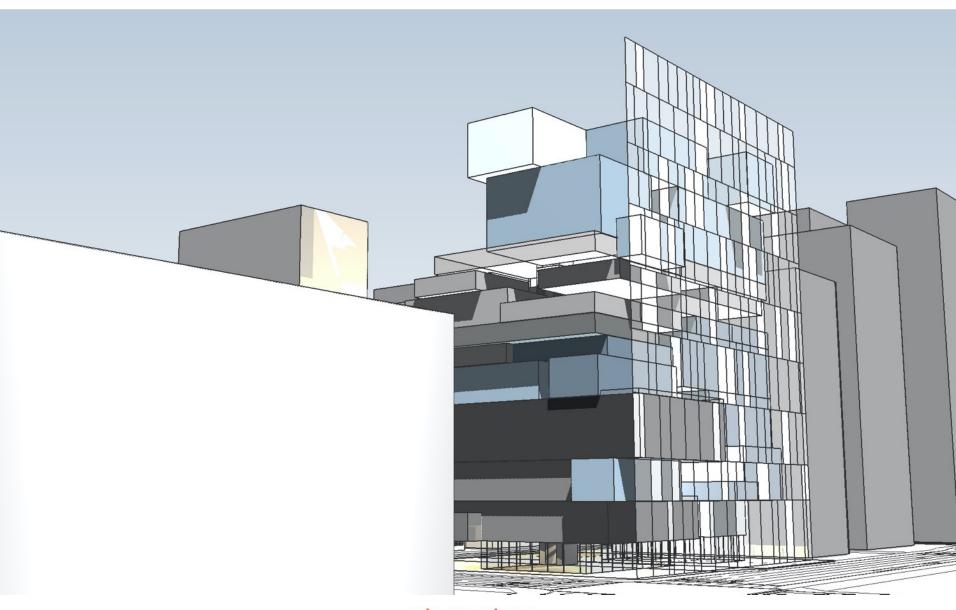


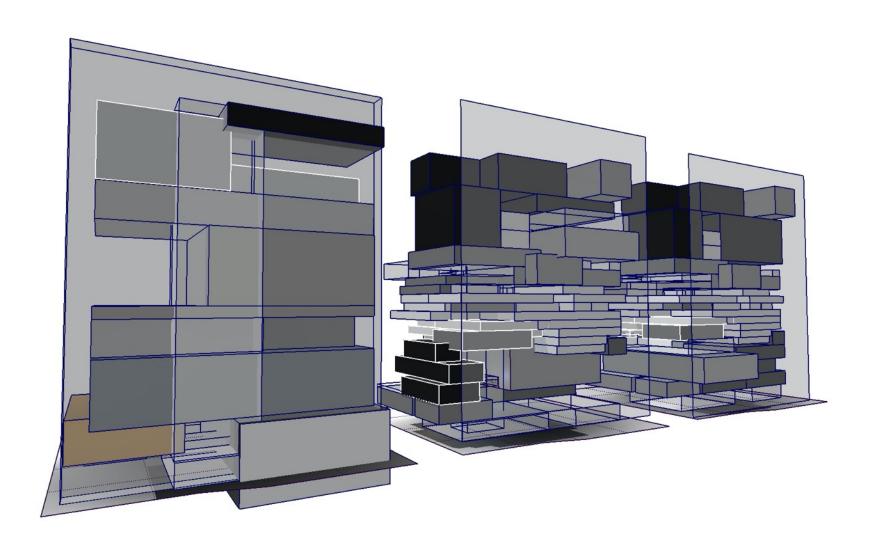






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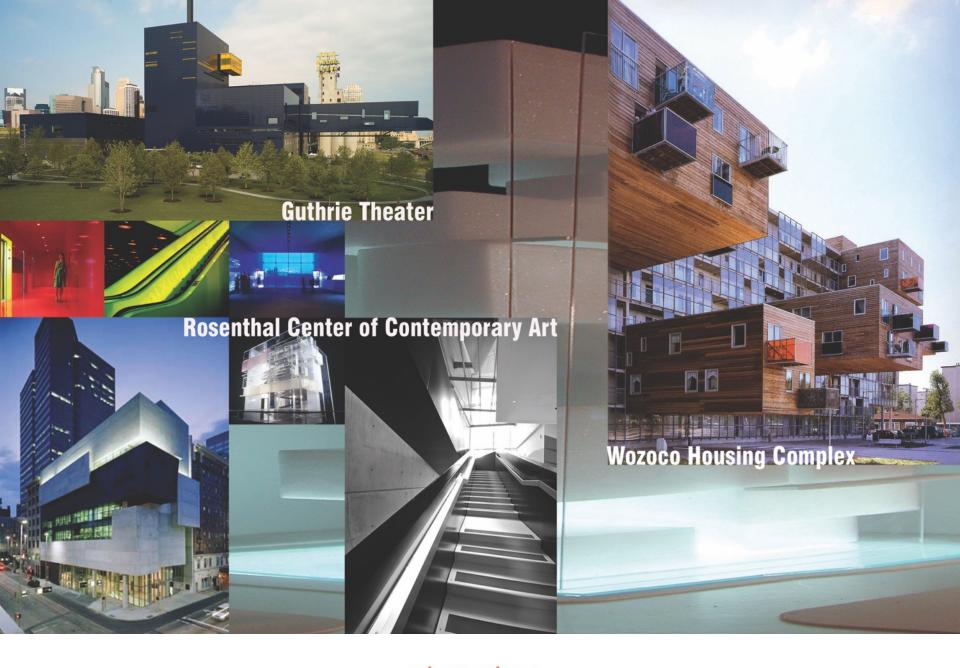




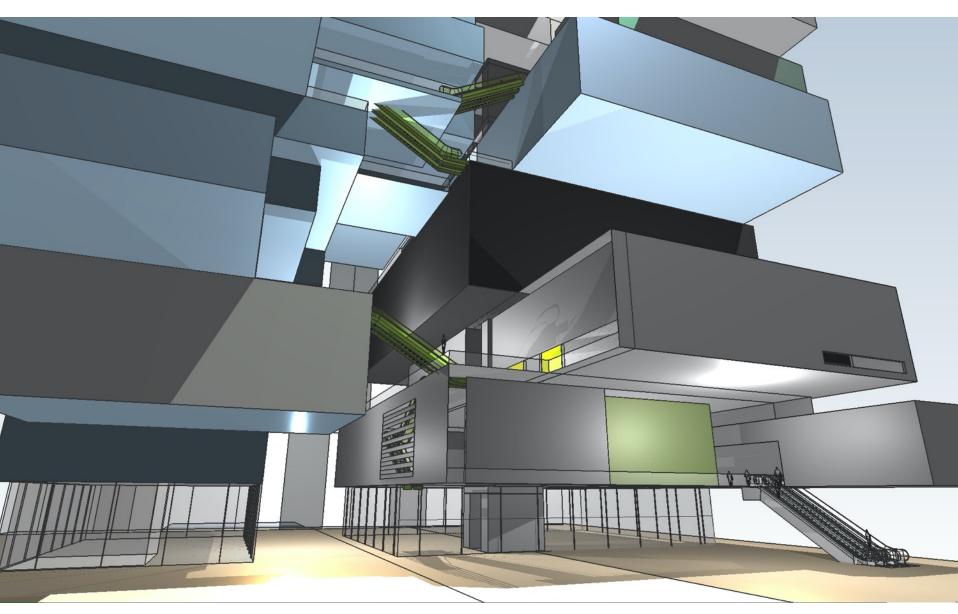




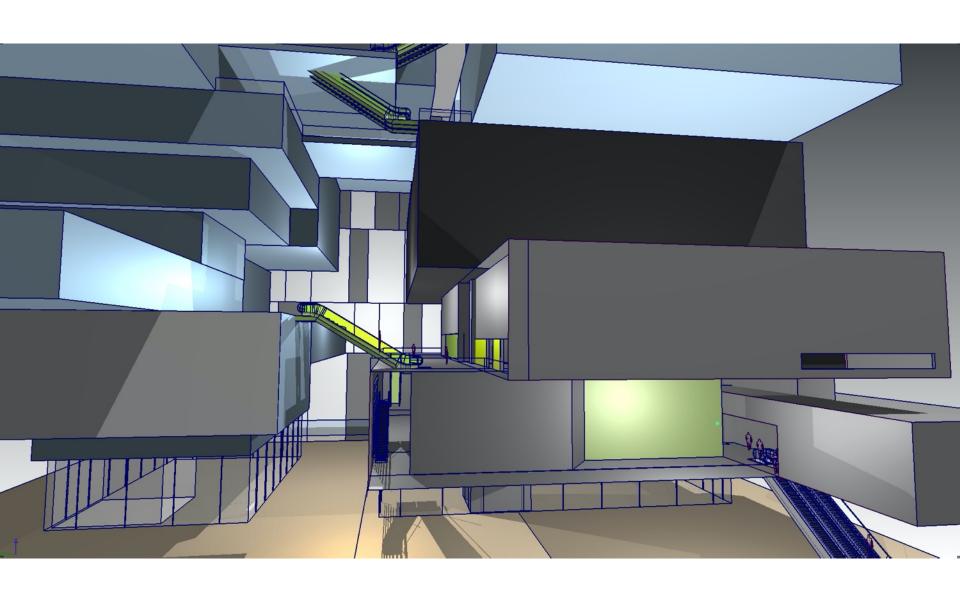
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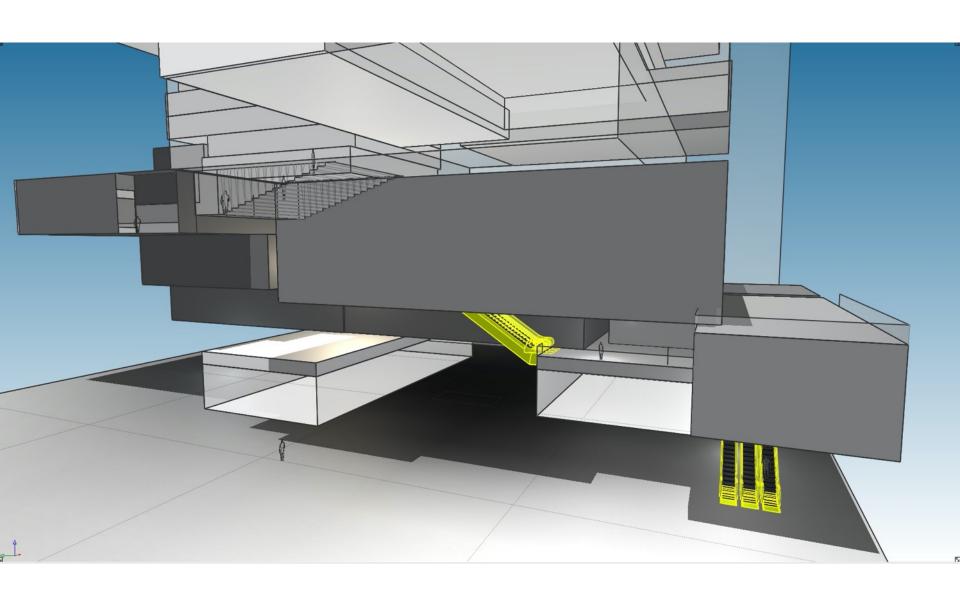




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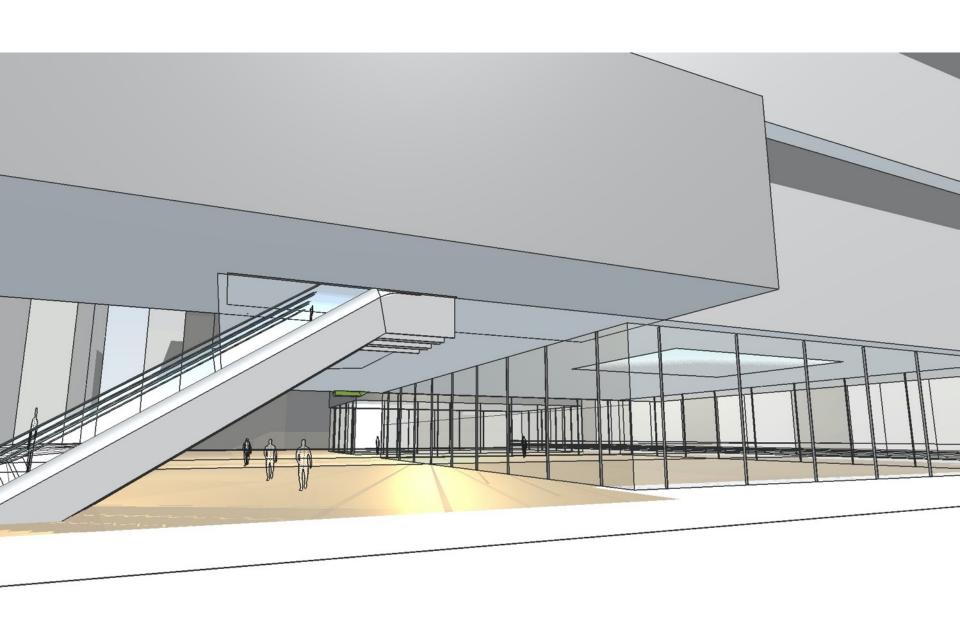
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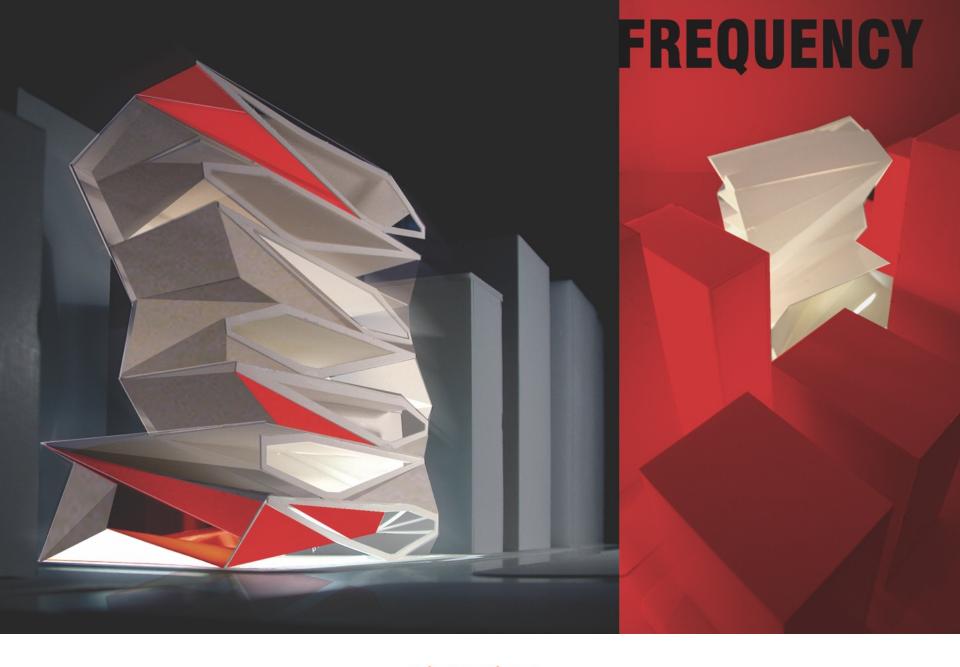
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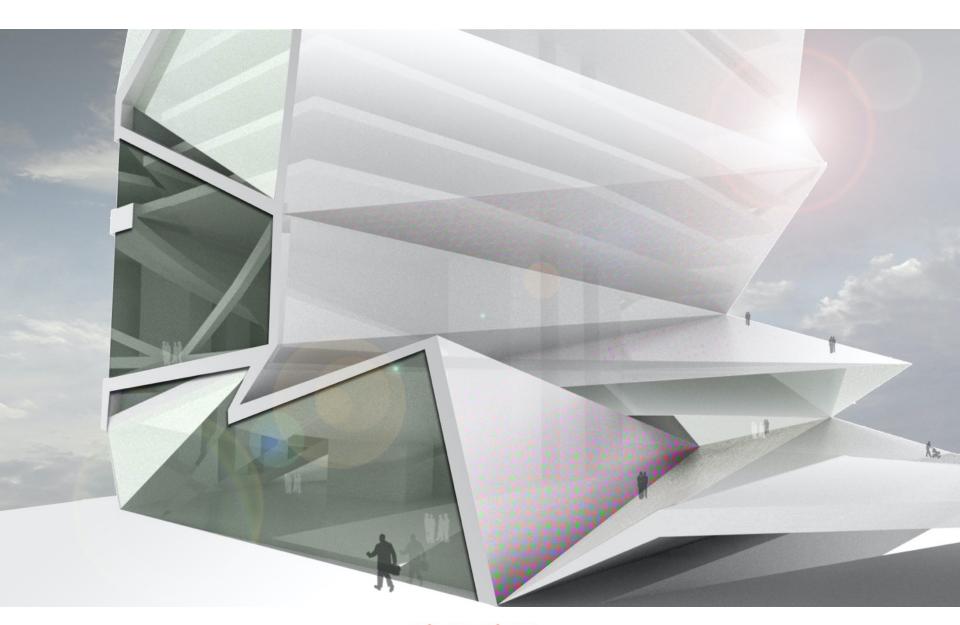
The design represents an amalgamation of multiple complex programs that are arranged in a way that is logical based on a complex set of functional constraints. Due to site conditions, it is a vertical building. Floor plates vary based on function and logical stacking principles. This leads to dramatic juxtapositions of program that are reflected in the composition. STACK

2 FREQUENCY

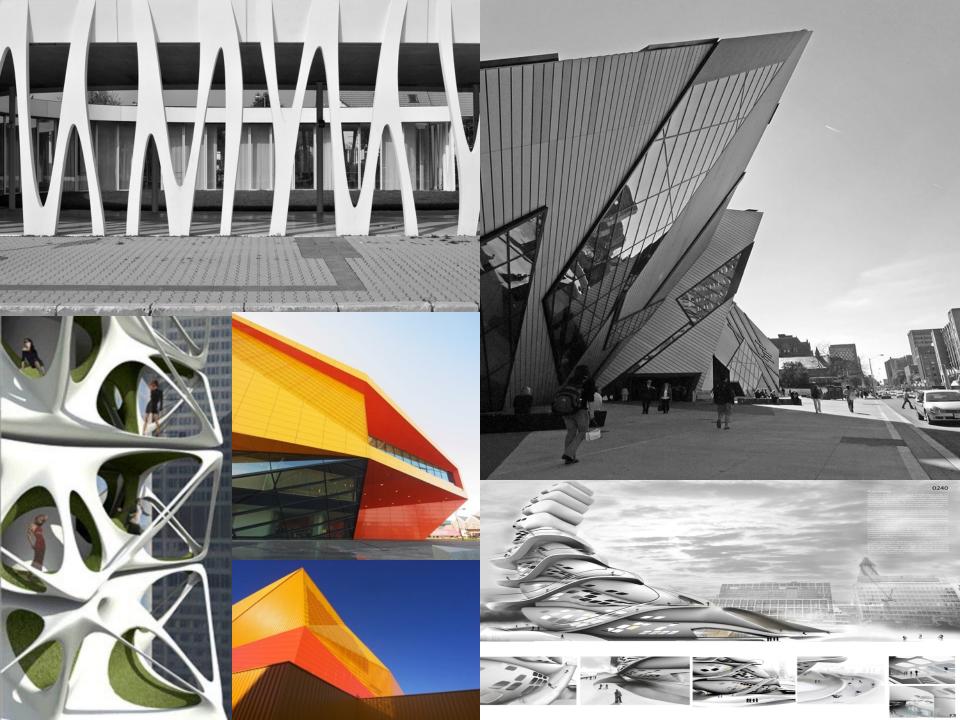


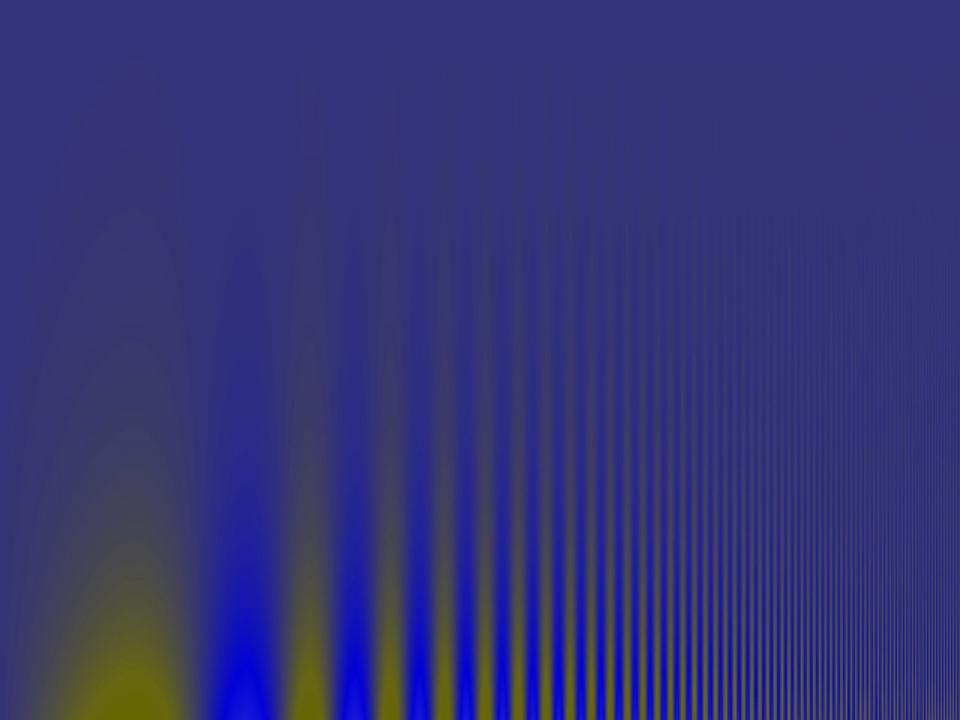


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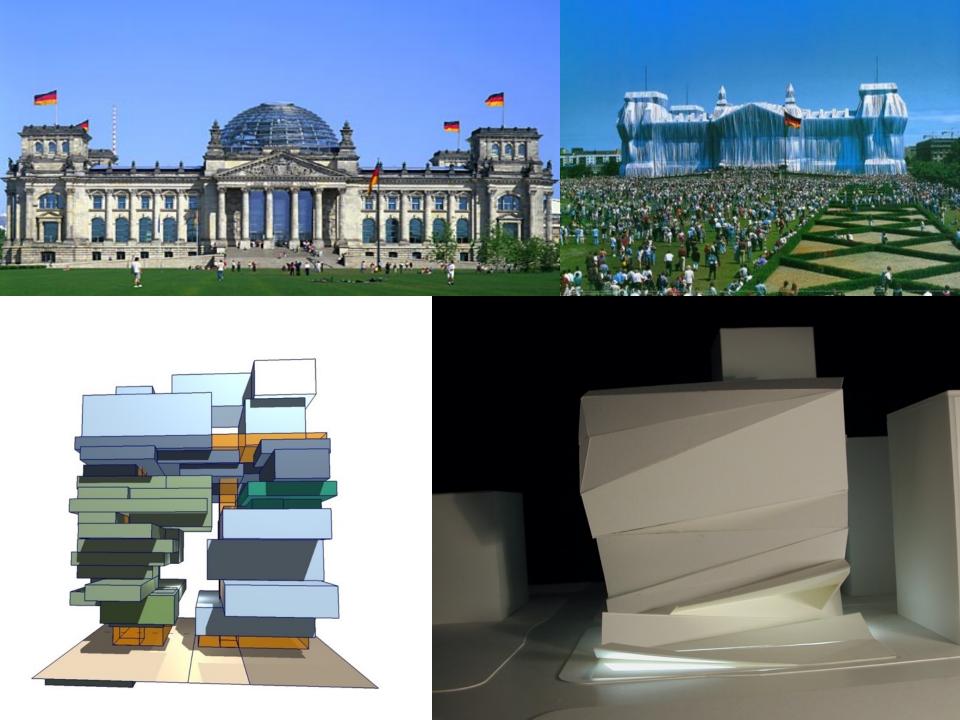


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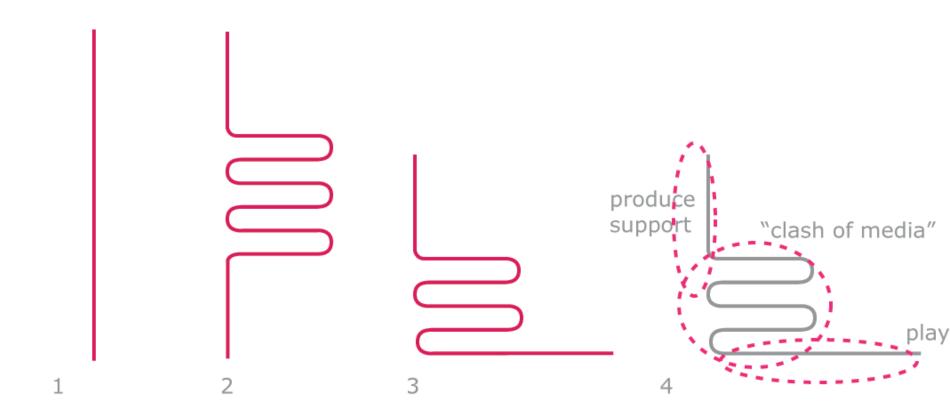




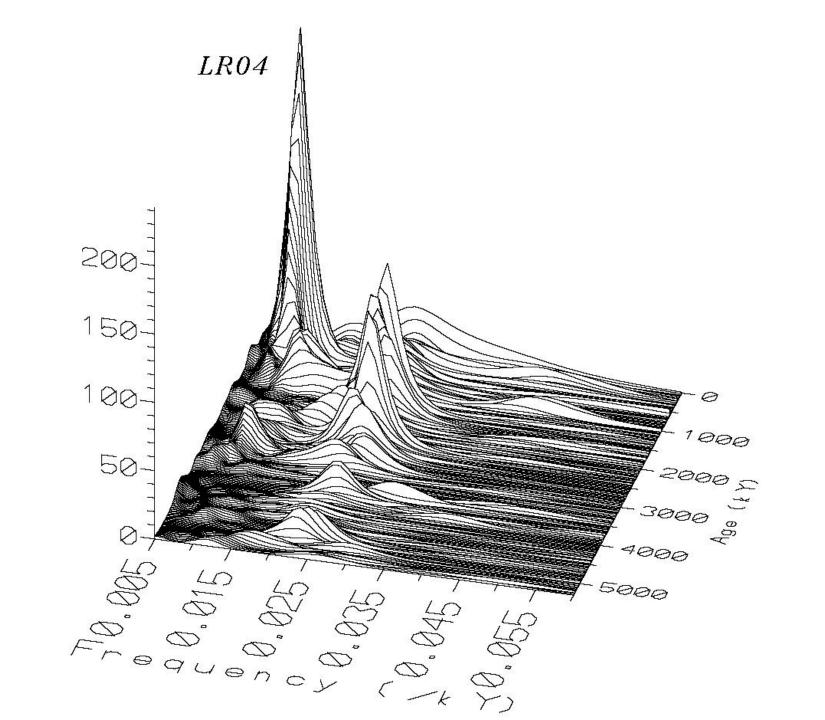


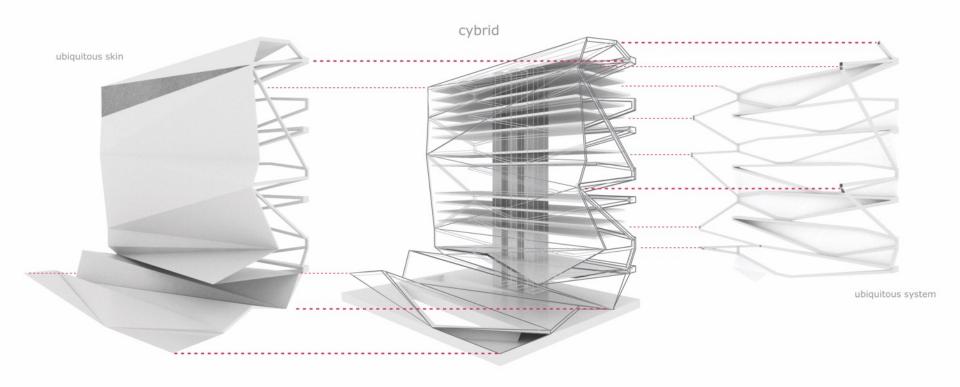




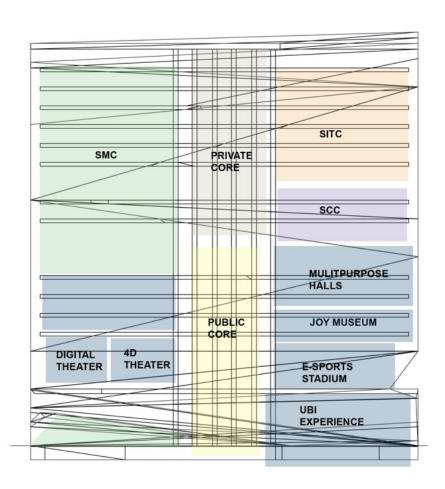


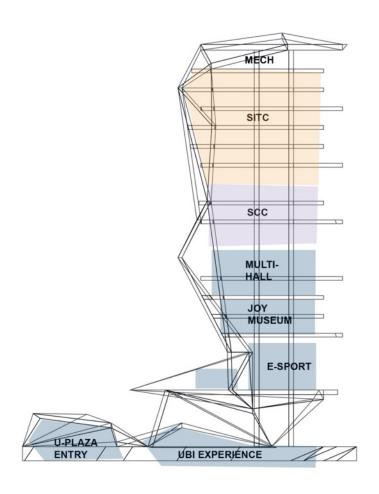
frequency_sectional diagram

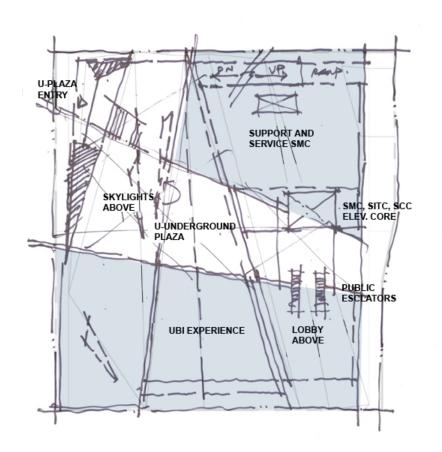


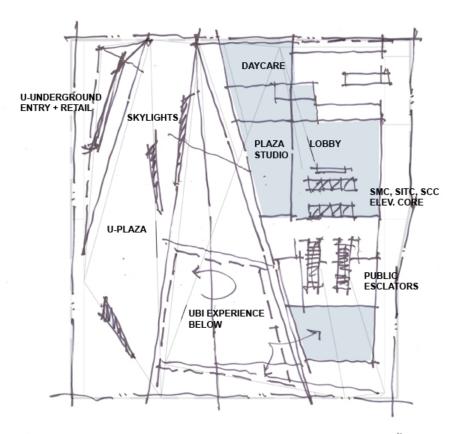


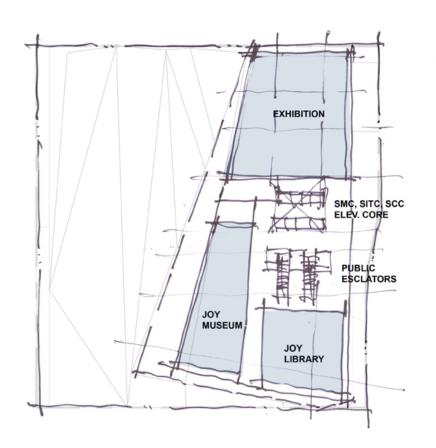


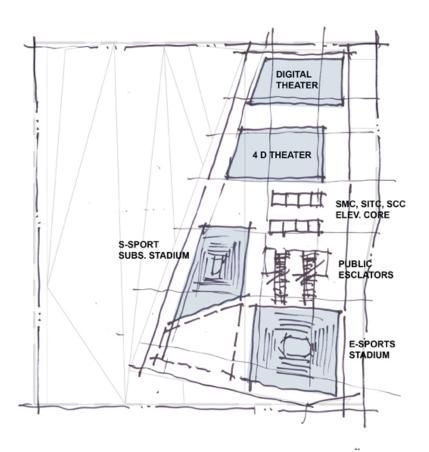




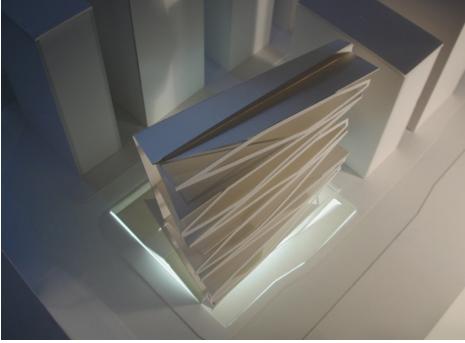






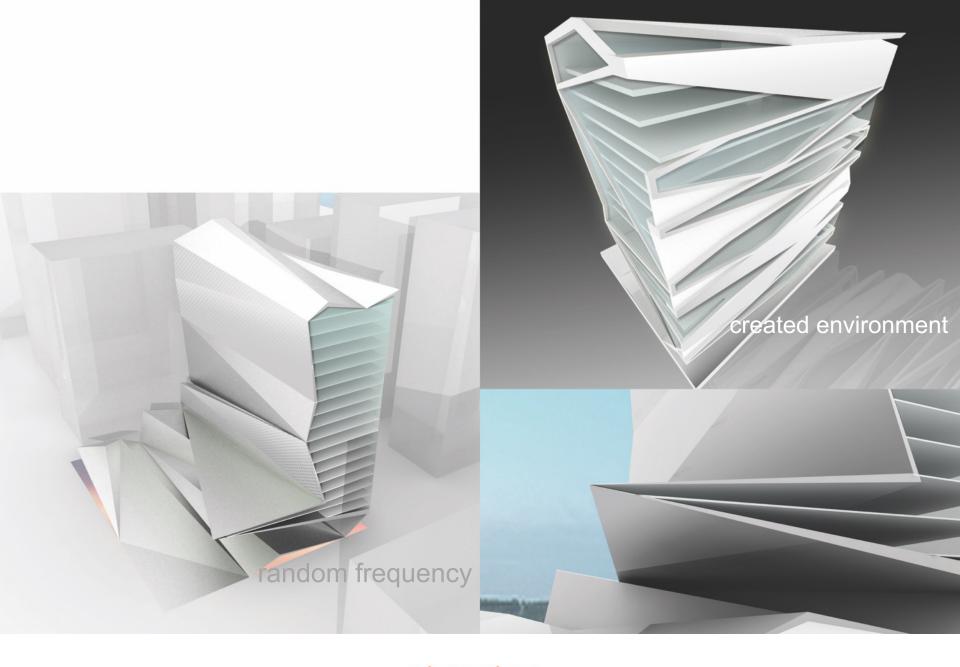




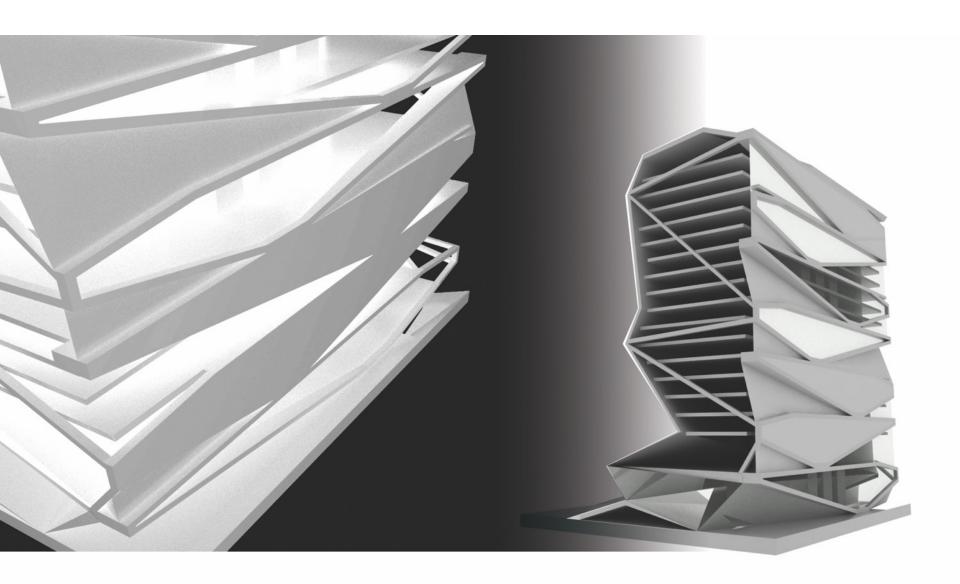


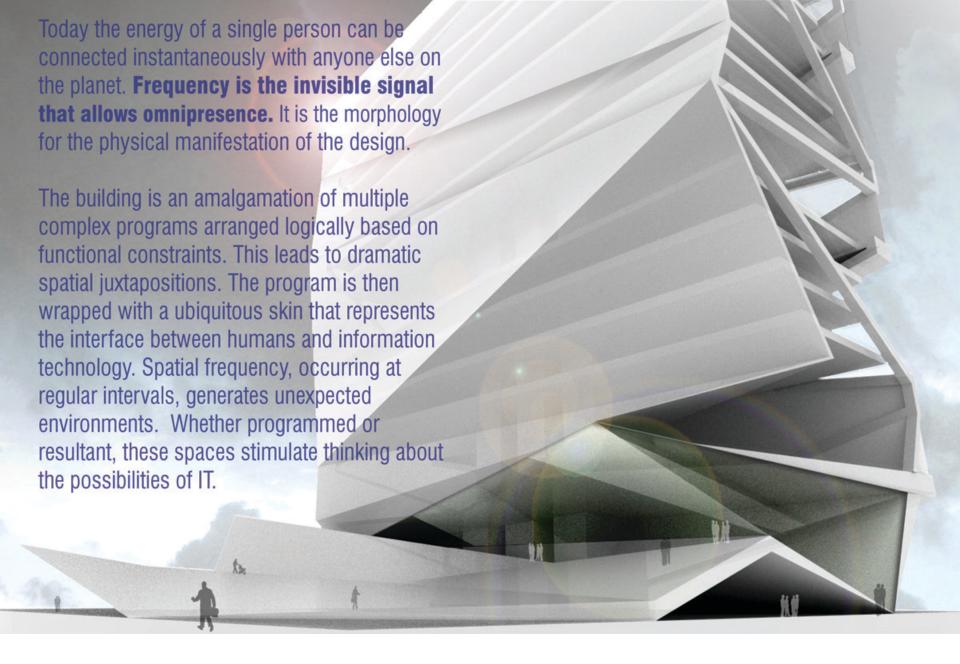
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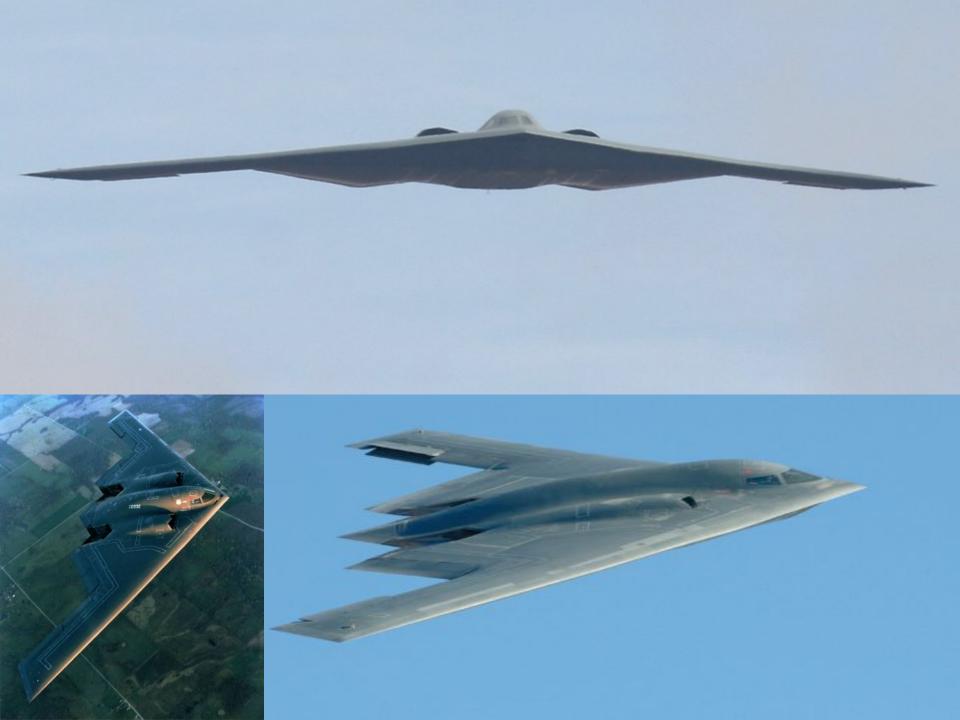
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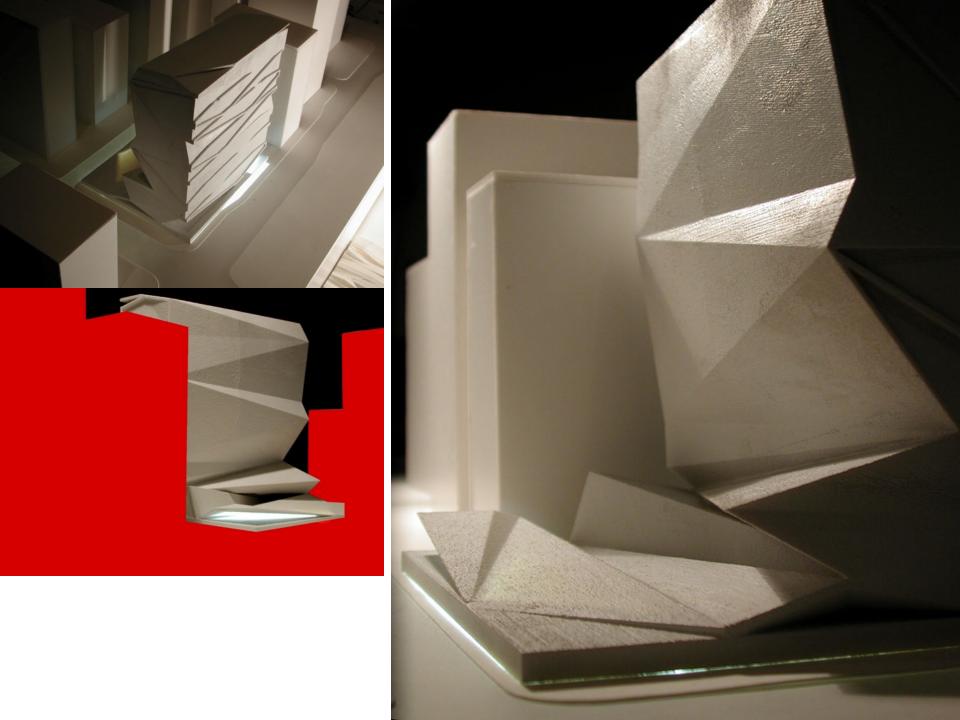










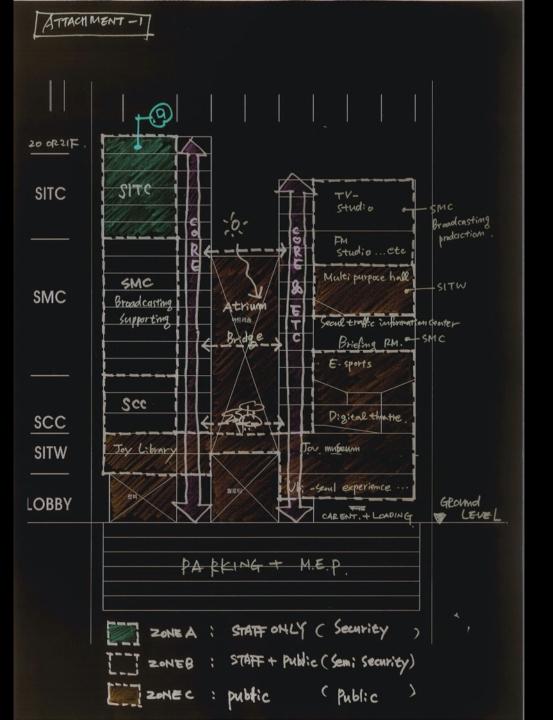


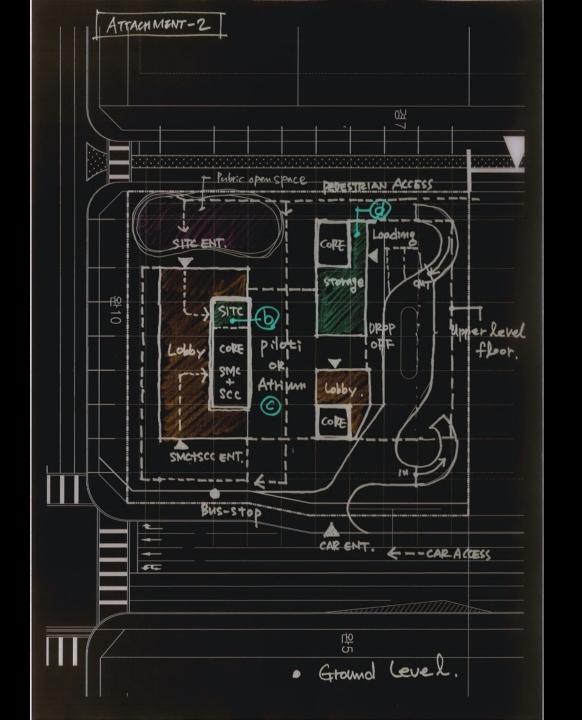


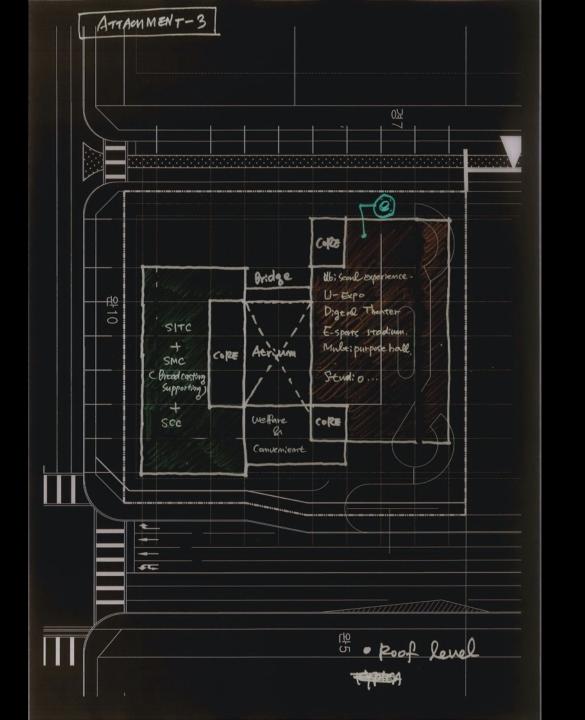
The building emerges from beneath the street from some unknown origin. The skin bends upon itself creating energy lines at the folds like electronic signals bouncing information between satellites and Earth. Random patterns gradually become more controlled as the skin culminates on the formal east façade. It is now intricately designed. The composition, shaped by human hands, is an evolution of traditional façade design. Evolved through modern technologies, it physically make possible this new world view. It is not rational but neoexpressionism, a futurist exploration of the 21st century.

3 INTERFACE

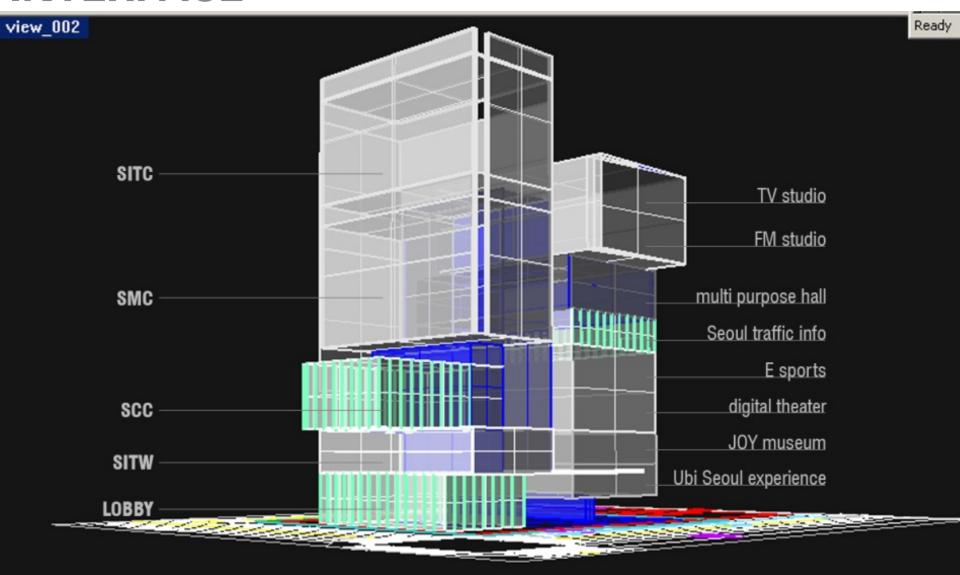








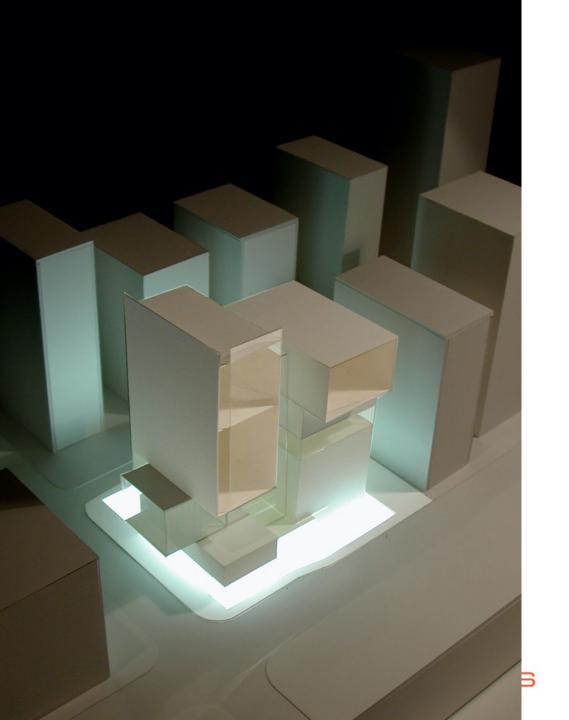
INTERFACE

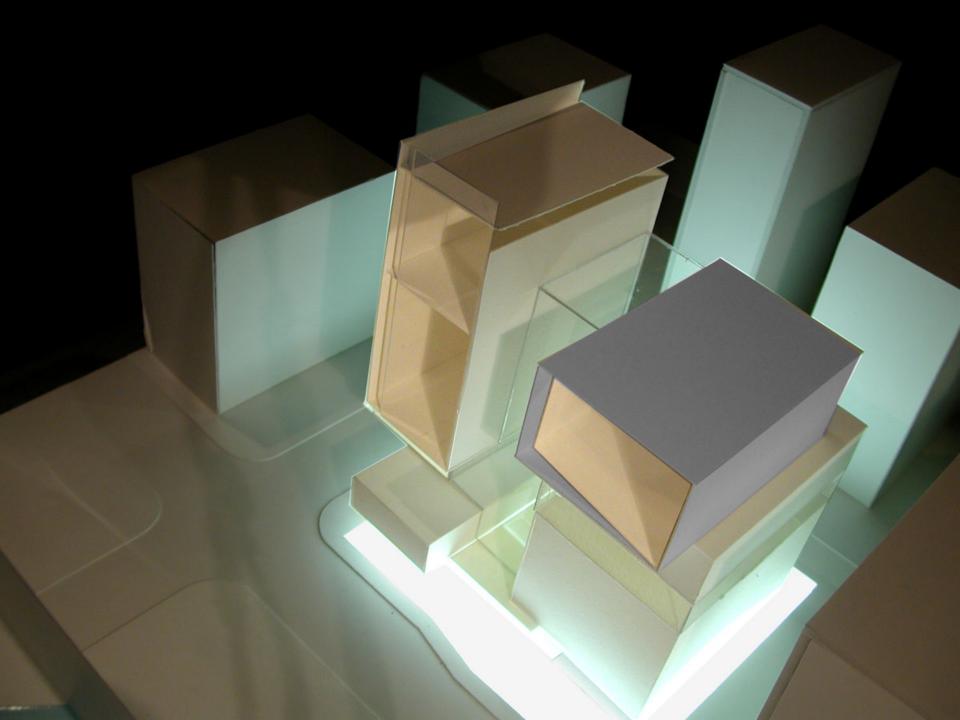




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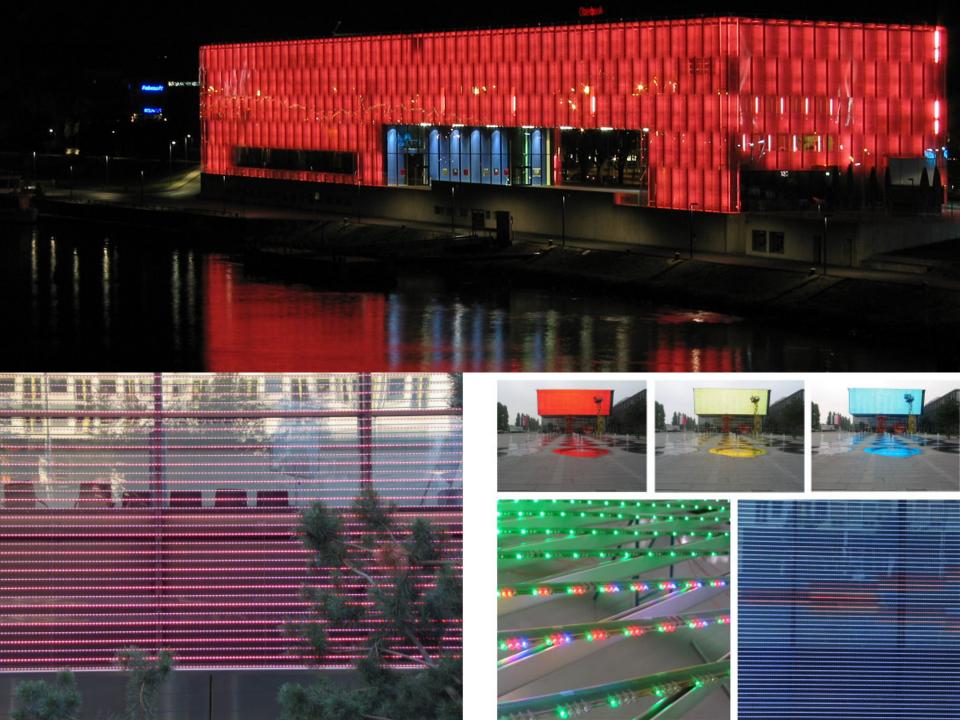


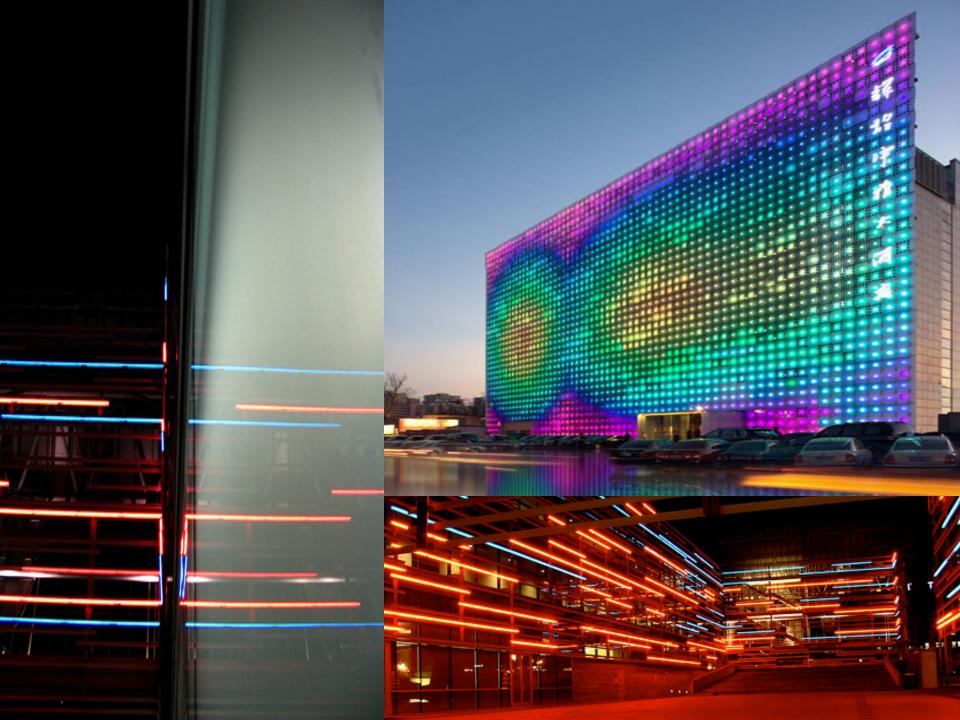


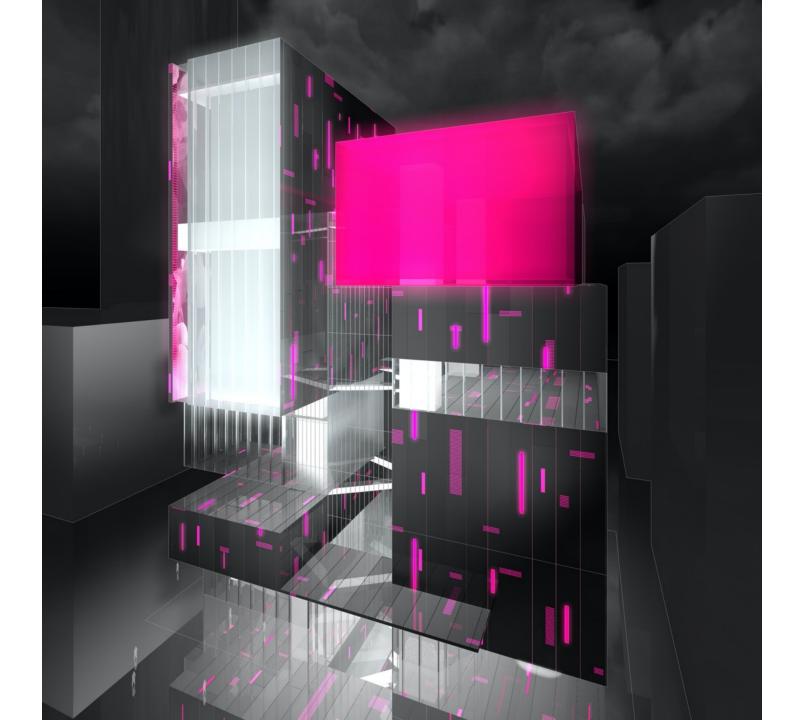












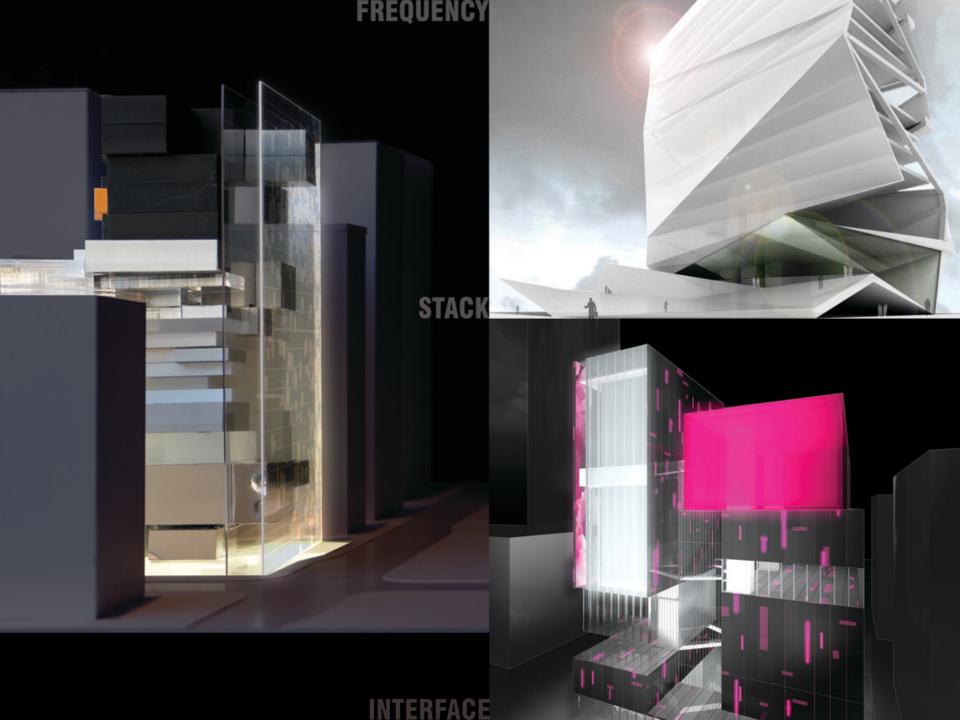
Dialog



IT Complex Design Considerations

- Civic Image- IT SEOUL
- Revenue Generation
- IT Experiences
 - Arrival Sequence + Pedestrian Flow
 - Quality of Public Spaces
 - Event Configuration + Sightlines
 - Amenities + Support Facilities
 - Acoustics, Air Quality, + Lighting
 - Security + Event Parking (Valet, Public, Support)
- Efficiency of Systems
 - Building Stacking
 - Multiple Event Flexibility
 - Long Span Structural Solutions
 - Mechanical Ventilation, Conditioning, and Energy Efficiency
 - Stacking of Program
 - Natural Light Access and Control
 - Sustainable Design Considerations
 - Maintenance + Operations







Seoul IT_ FREQ.