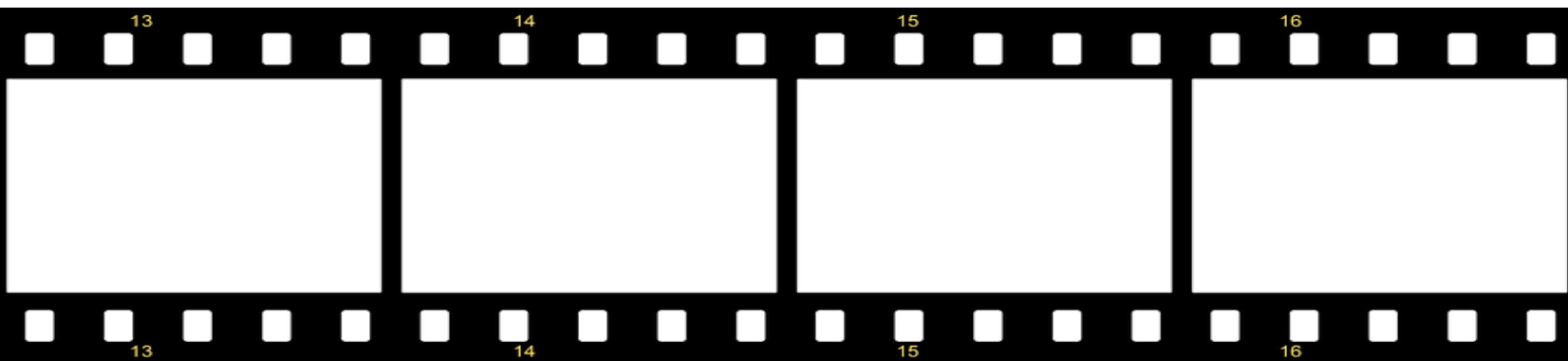


A WRINKLE IN TIME

Technology and digital arts institution

Suada Dema 2020





SUSTAINABILITY

URBAN GROWTH

URBAN REGENERATION

INNOVATION

URBAN SPINE

ECONOMICAL IMPACT

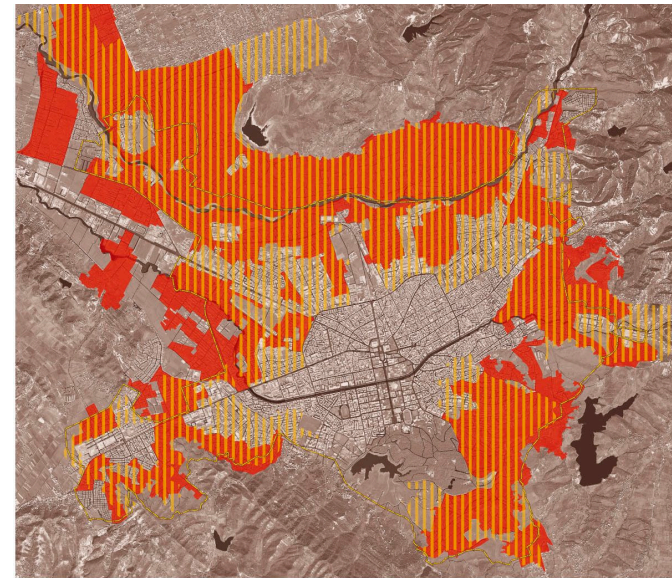
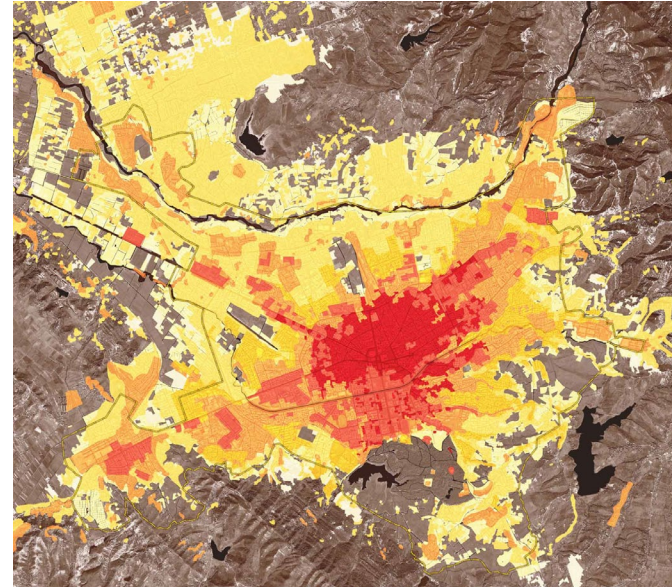
a city of two rivers



Context



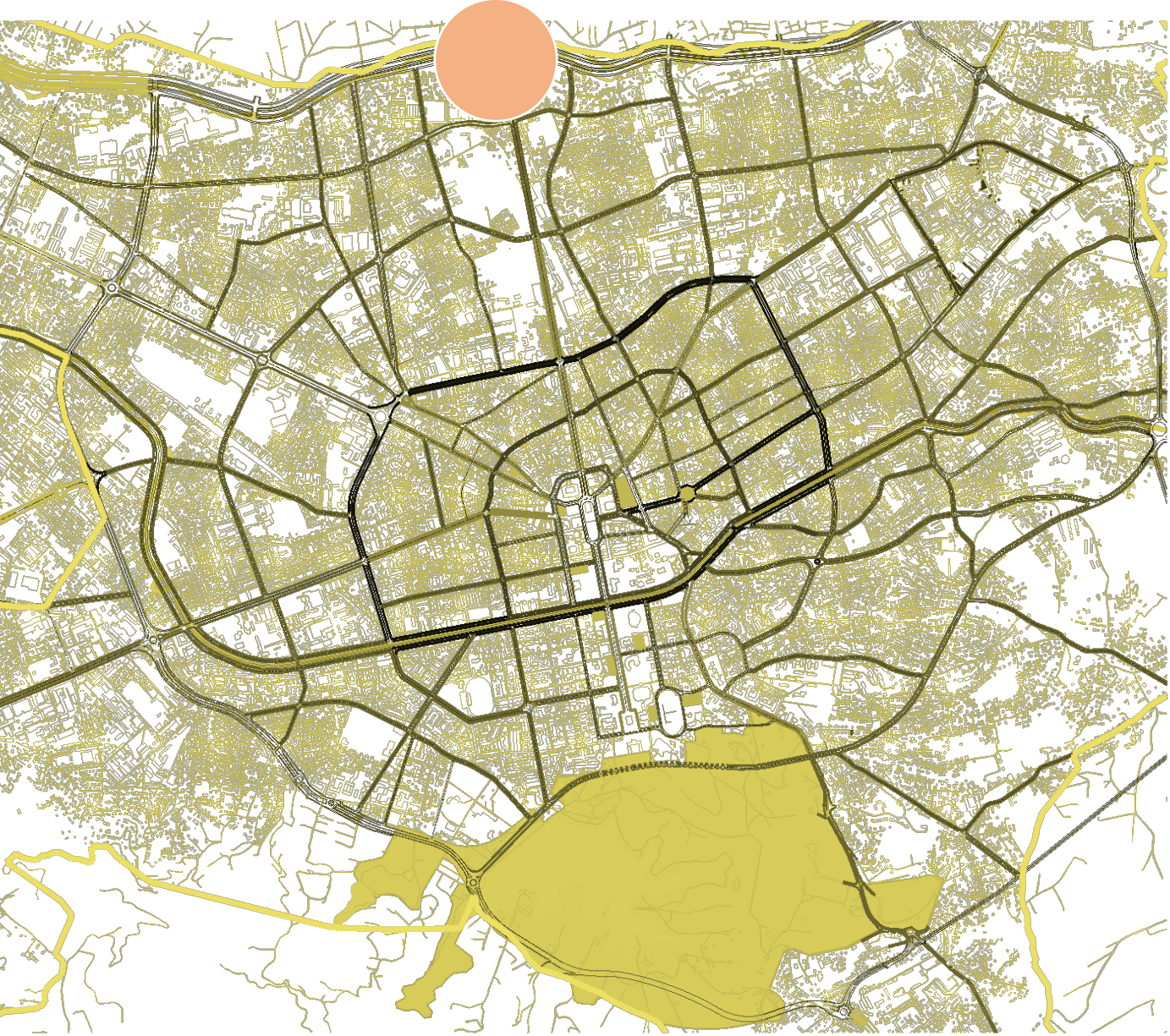
City expansion in the last decades



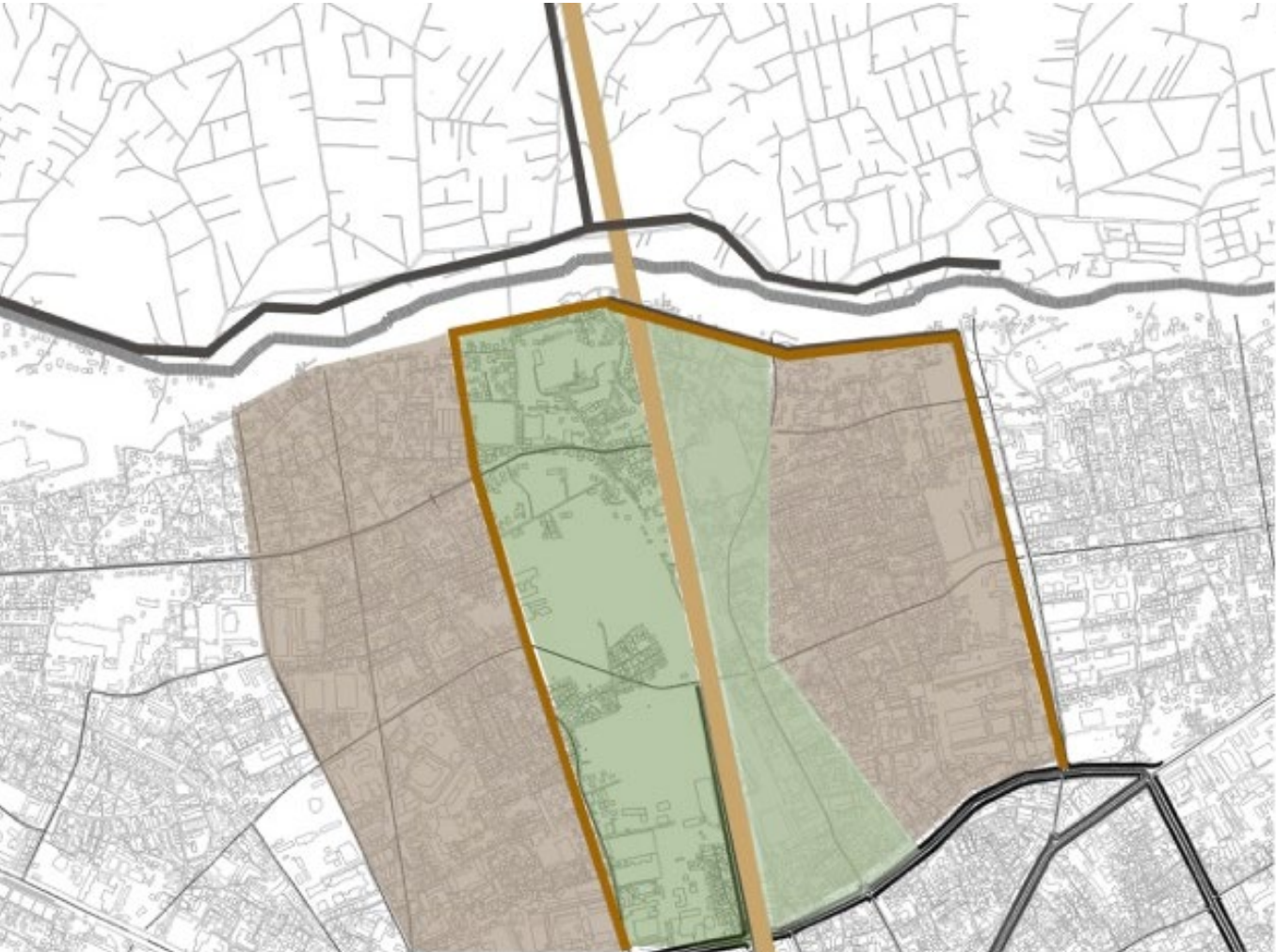
The boulevard extension



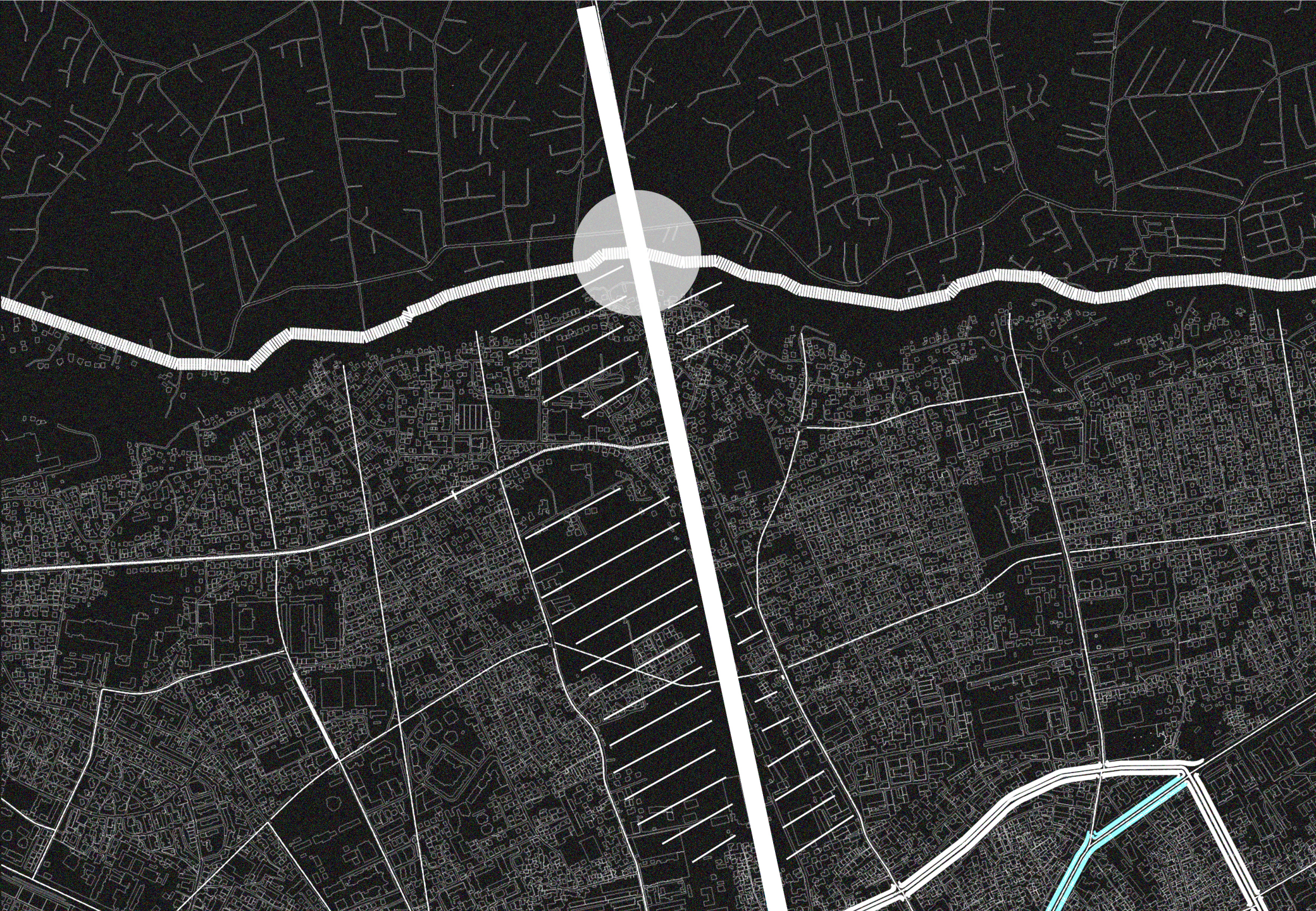
Main roads connection with the site



Urban strategy



- New park
- Tramway
- New residential complex
- Reoriented car road

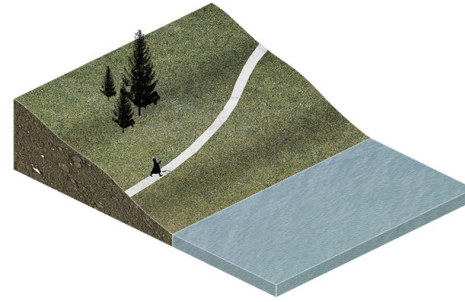


Masterplan

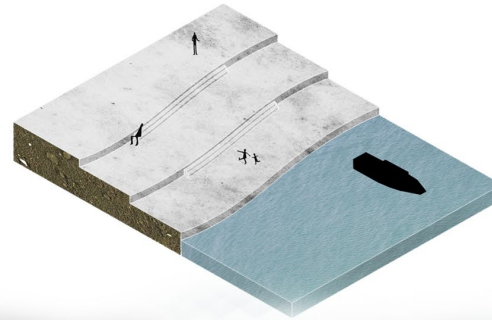




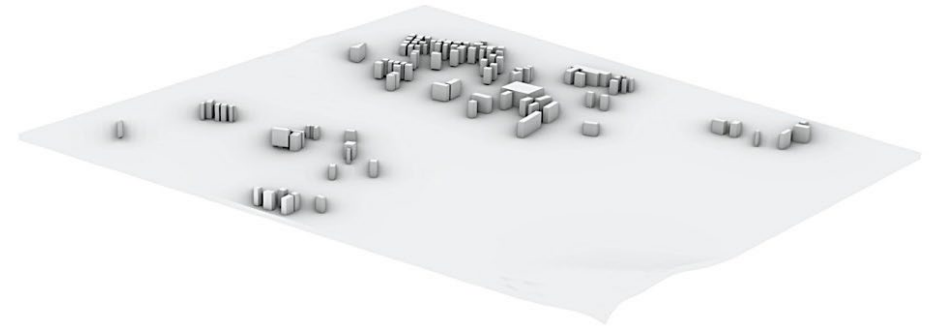
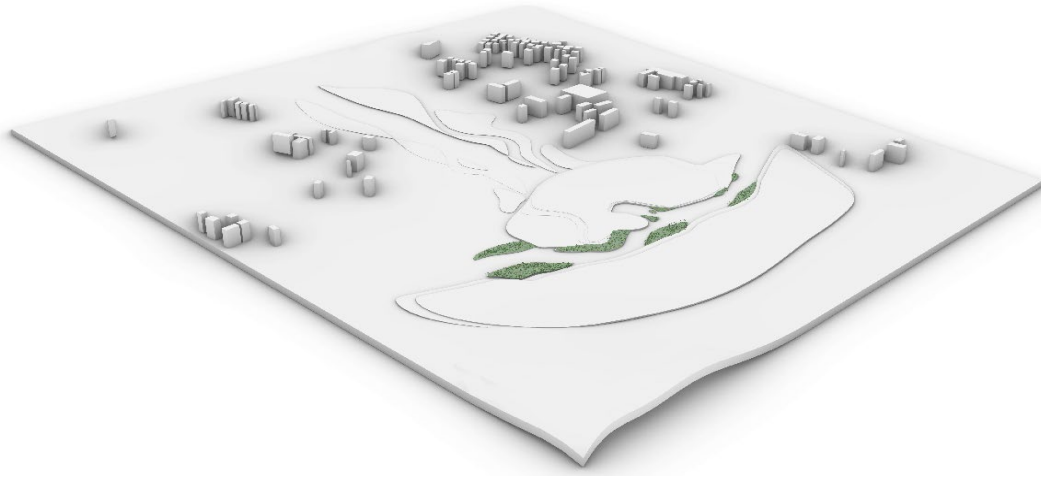
Increasing the level difference and adding a rock barrier between the pedestrian road and the river will ensure the reduction of flood danger .



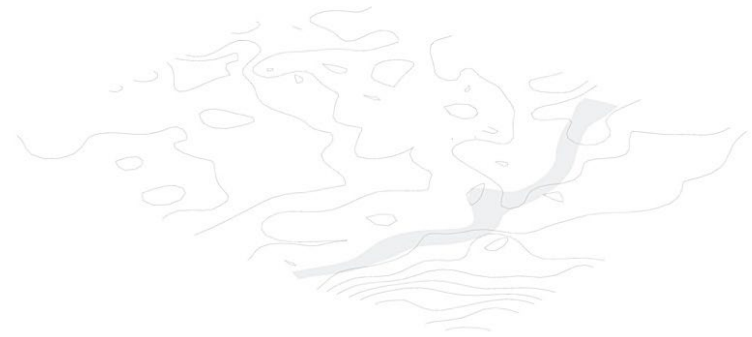
The wetlands are the main feature serving to reduce the flood effects working like a sponge garden during periods of heavy rain . They will also create a new environment for the animals and birds inhabiting the area and cultivation of new hydric plants.

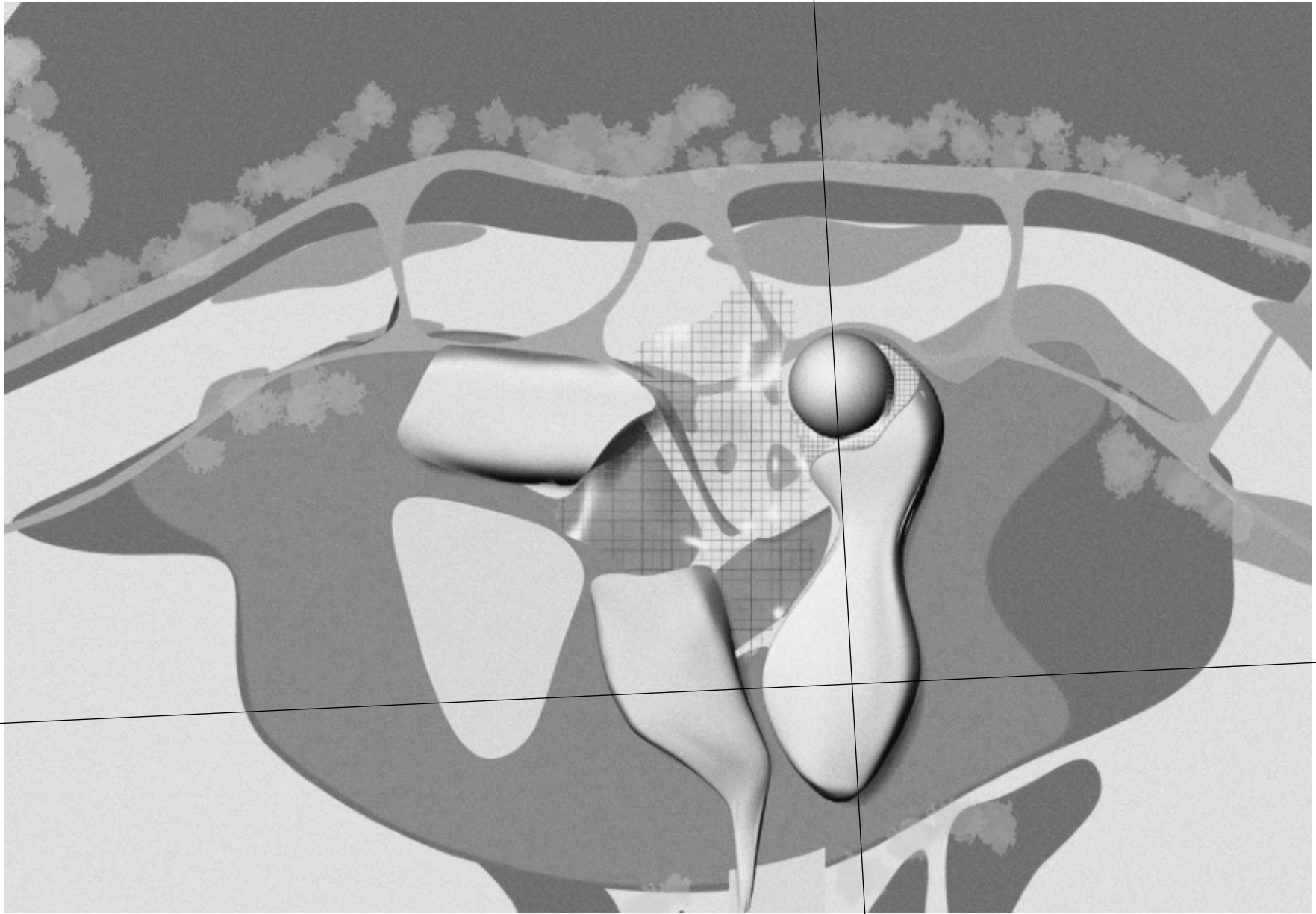


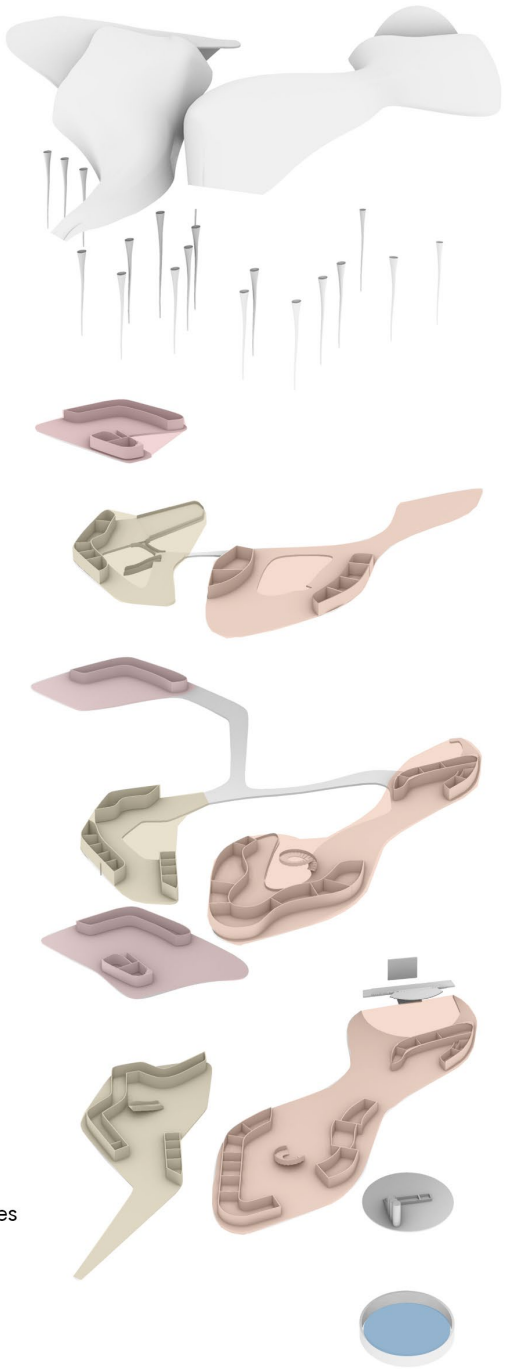
Flood control strategy



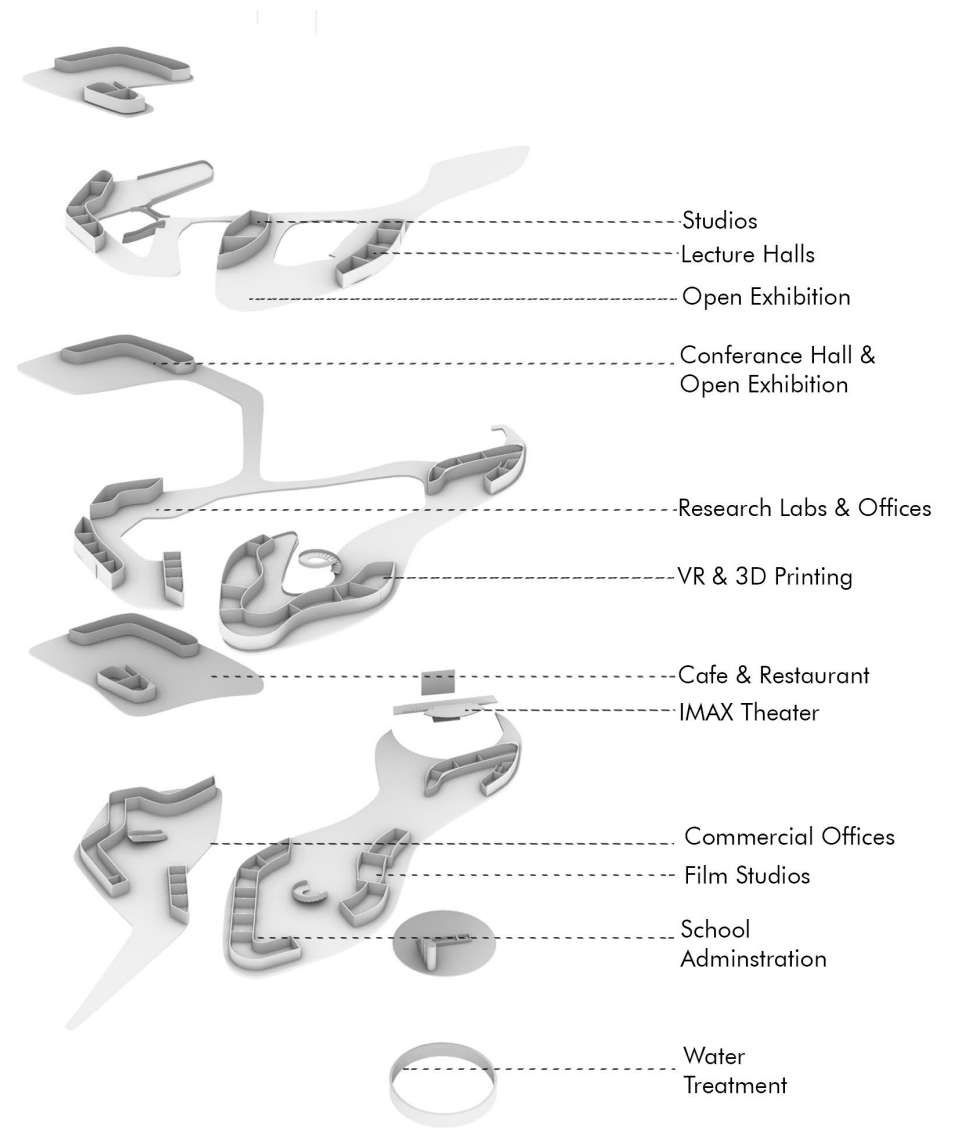
- Increase of the height of river bank
- Wetlands working as a sponge environment
- Additional vegetation





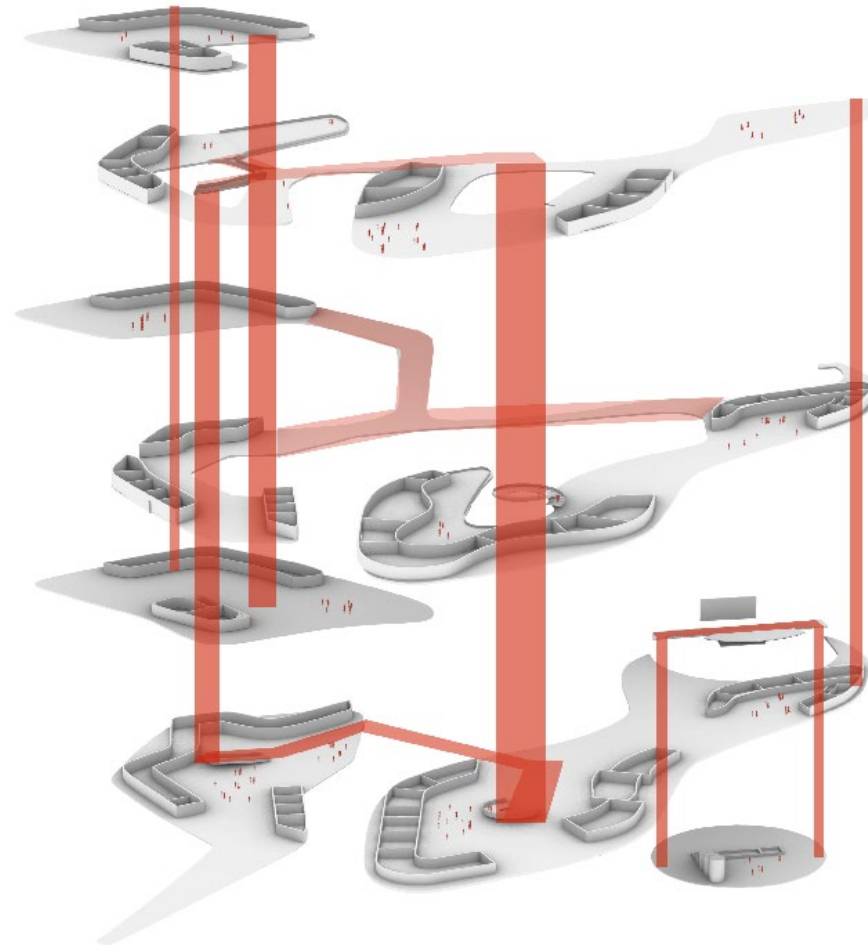


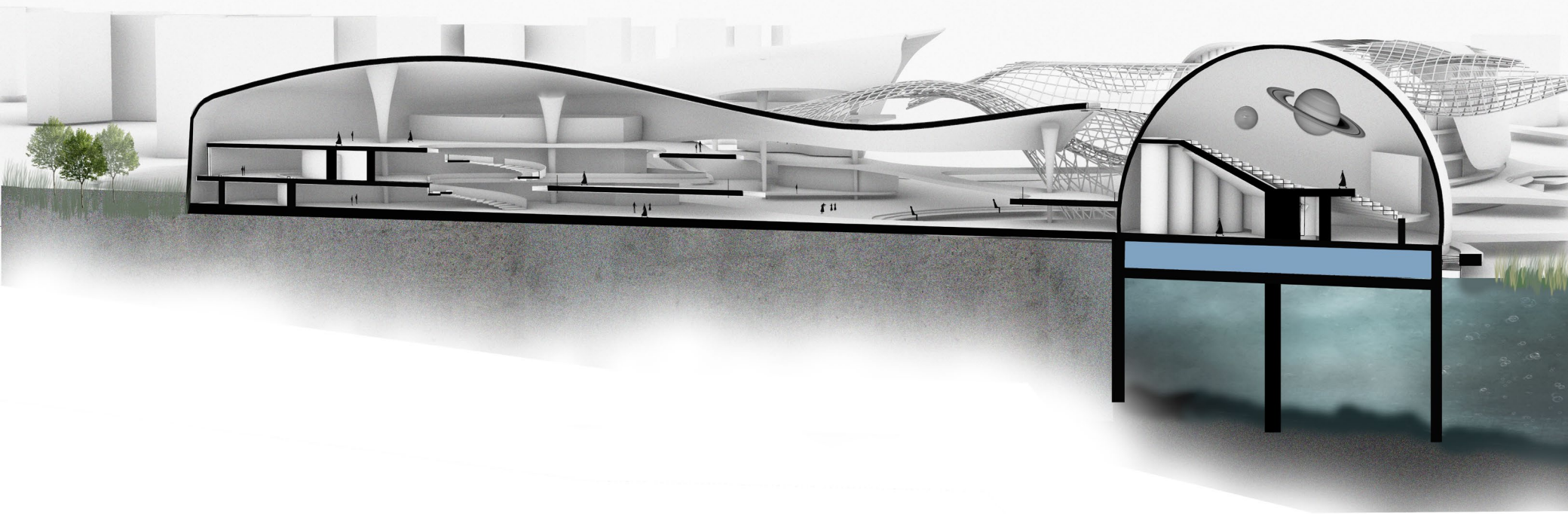
- Public Spaces
- Offices
- Educational Classes
- Water Tank

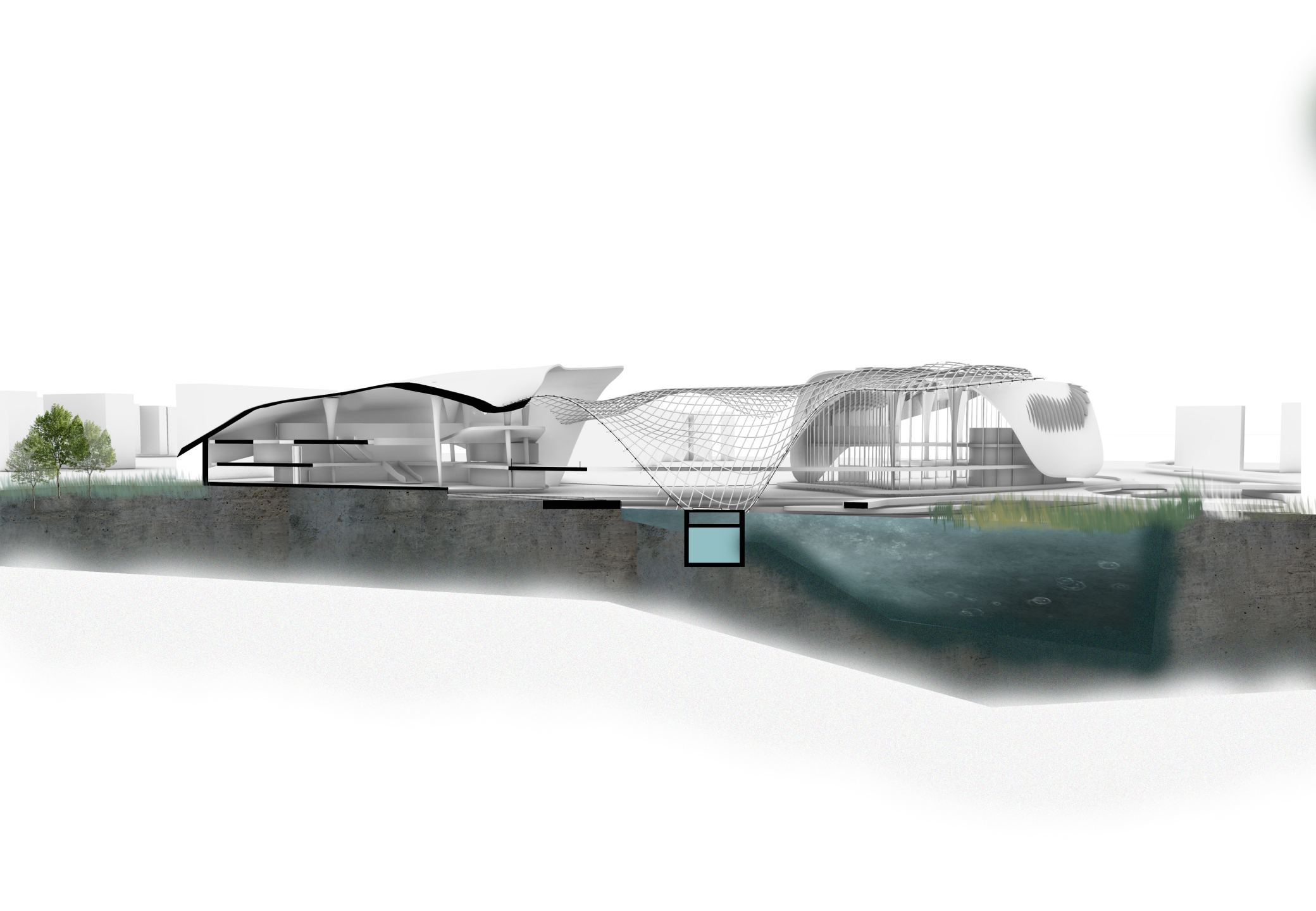


- Studios
- Lecture Halls
- Open Exhibition
- Conference Hall & Open Exhibition
- Research Labs & Offices
- VR & 3D Printing
- Cafe & Restaurant
- IMAX Theater
- Commercial Offices
- Film Studios
- School Administration
- Water Treatment

Circulation

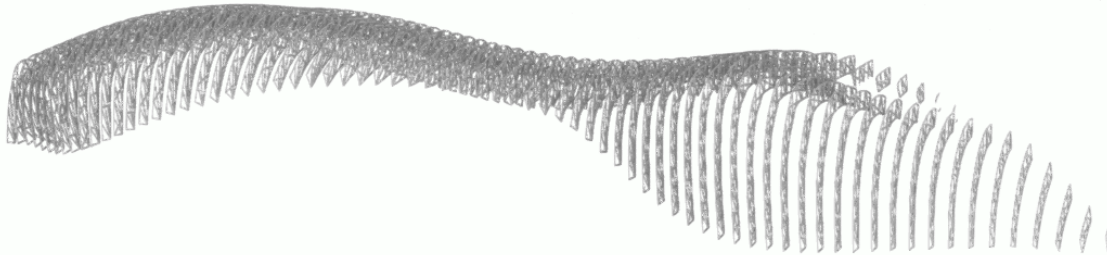








Titanium
dioxide



Truss structure

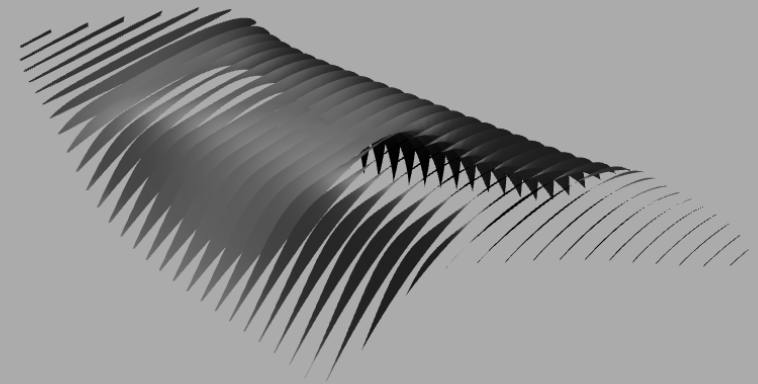
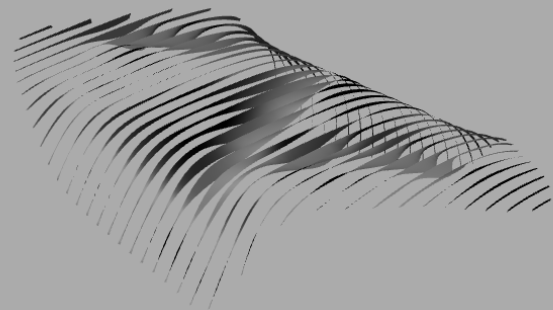
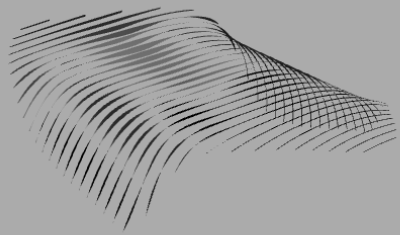


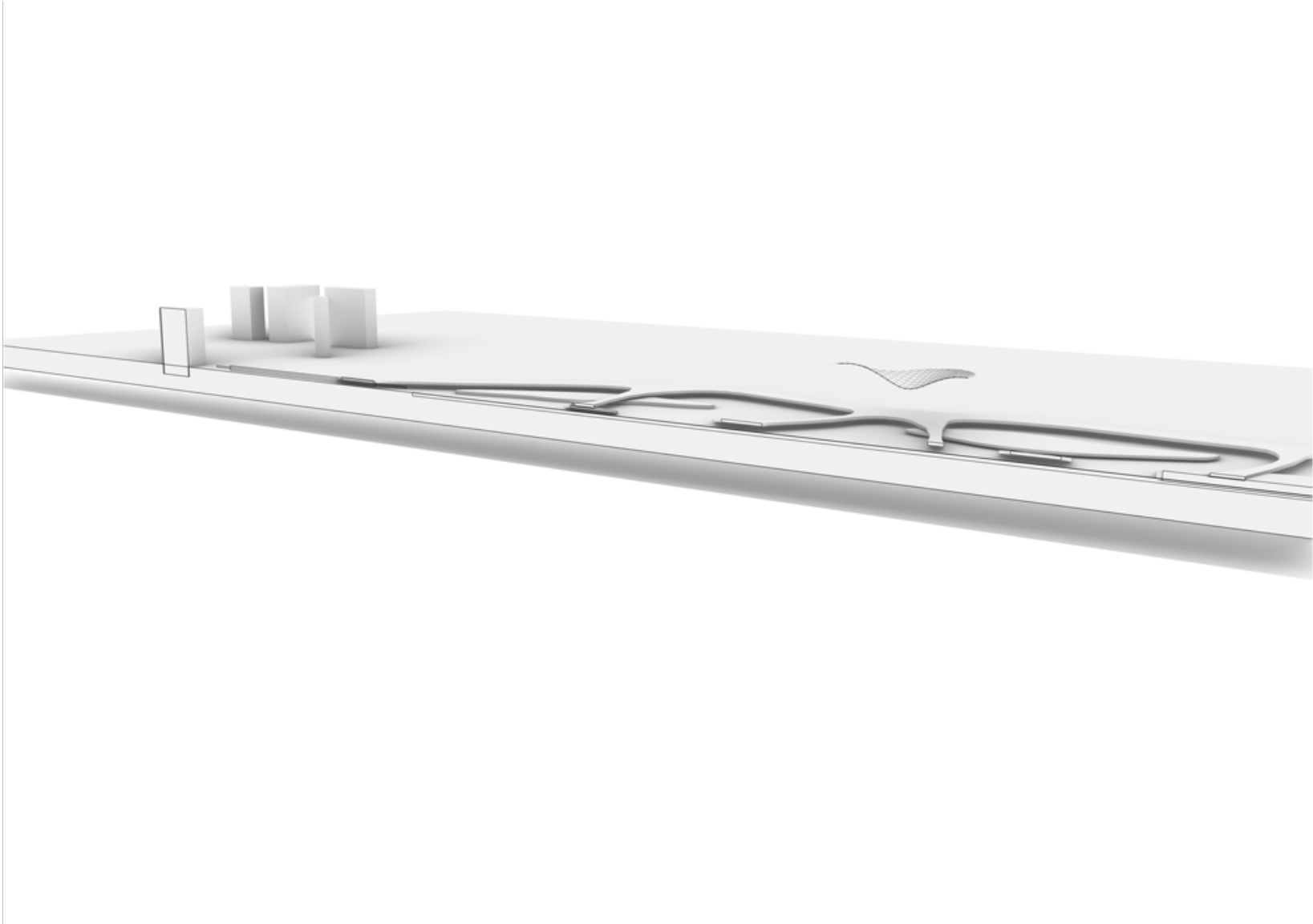
Interior plaster



Steel
columns

Kinetic roof for light and temperature control





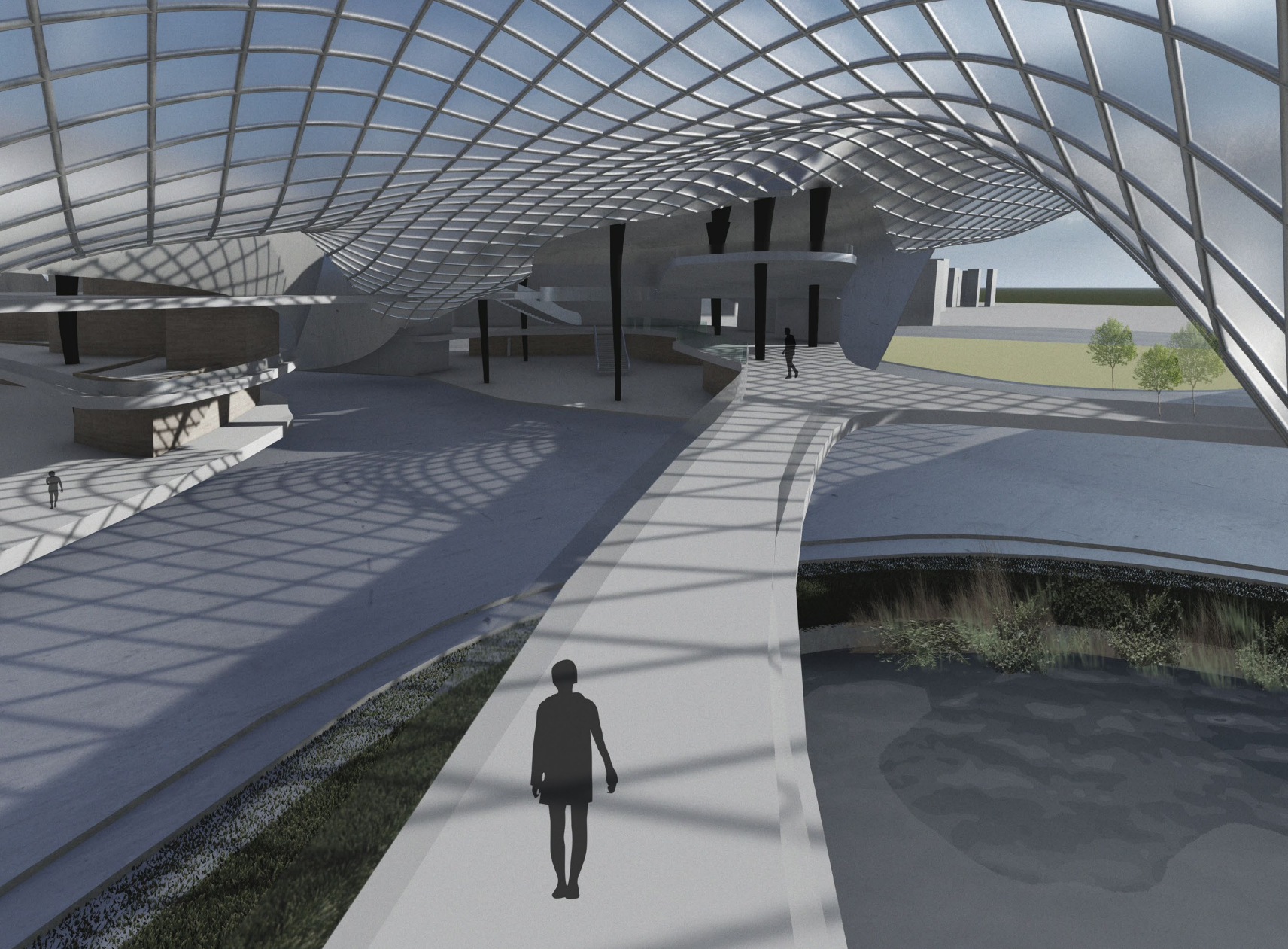


The benefits of using dynamic façade

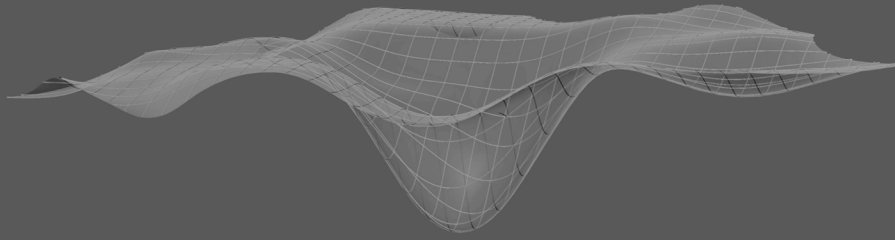
- Stores energy for later use
- Provides insulation
- Aesthetical
- Biodegradable material
- Use of daylight
- Minimum heat loss



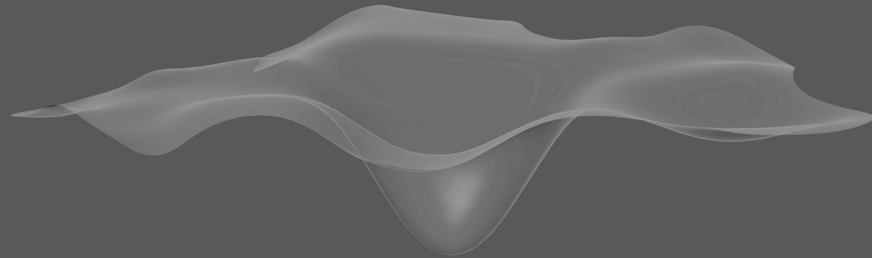
the edge



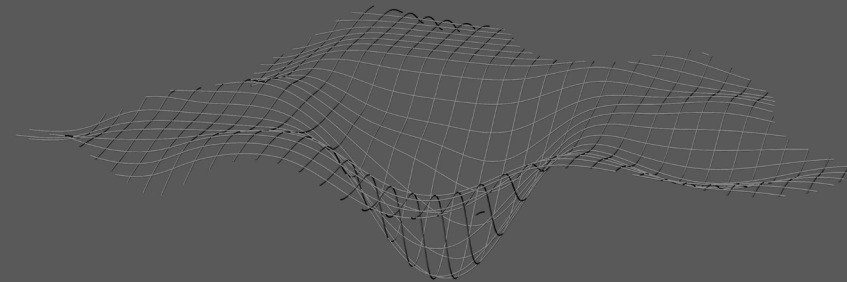
urban living room



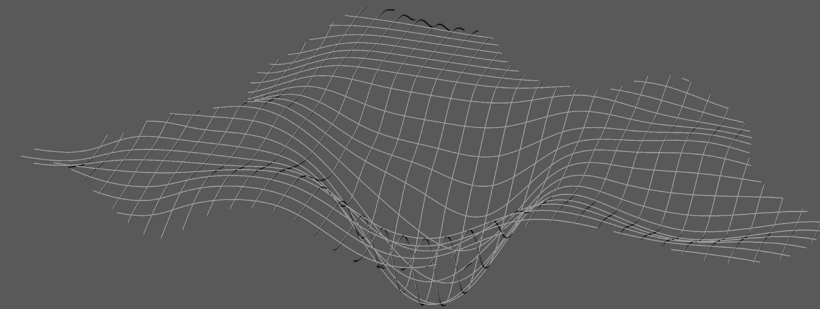
Translucent photovoltaic panels



Glass panels



Water pipes



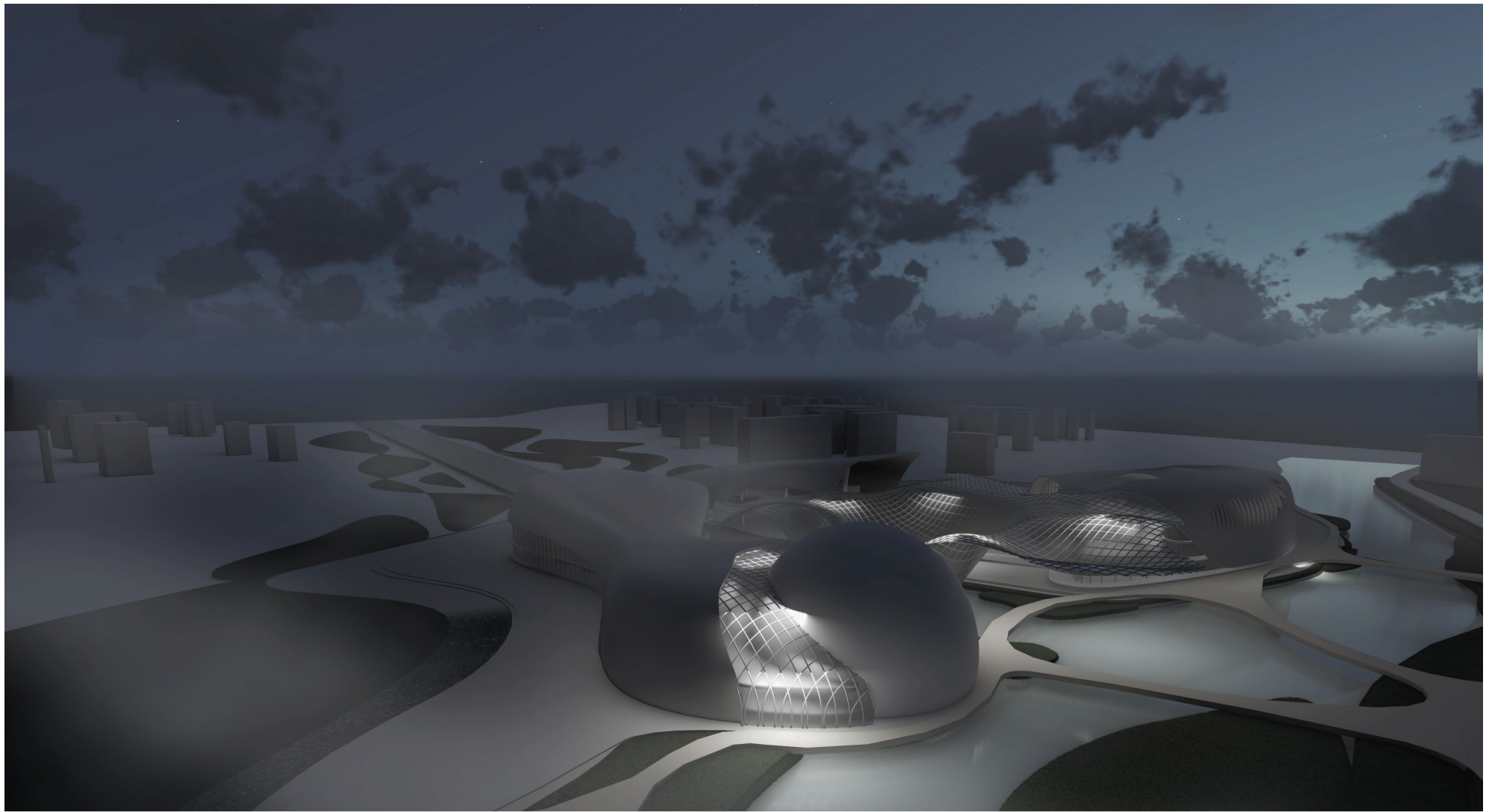
Steel diagrid



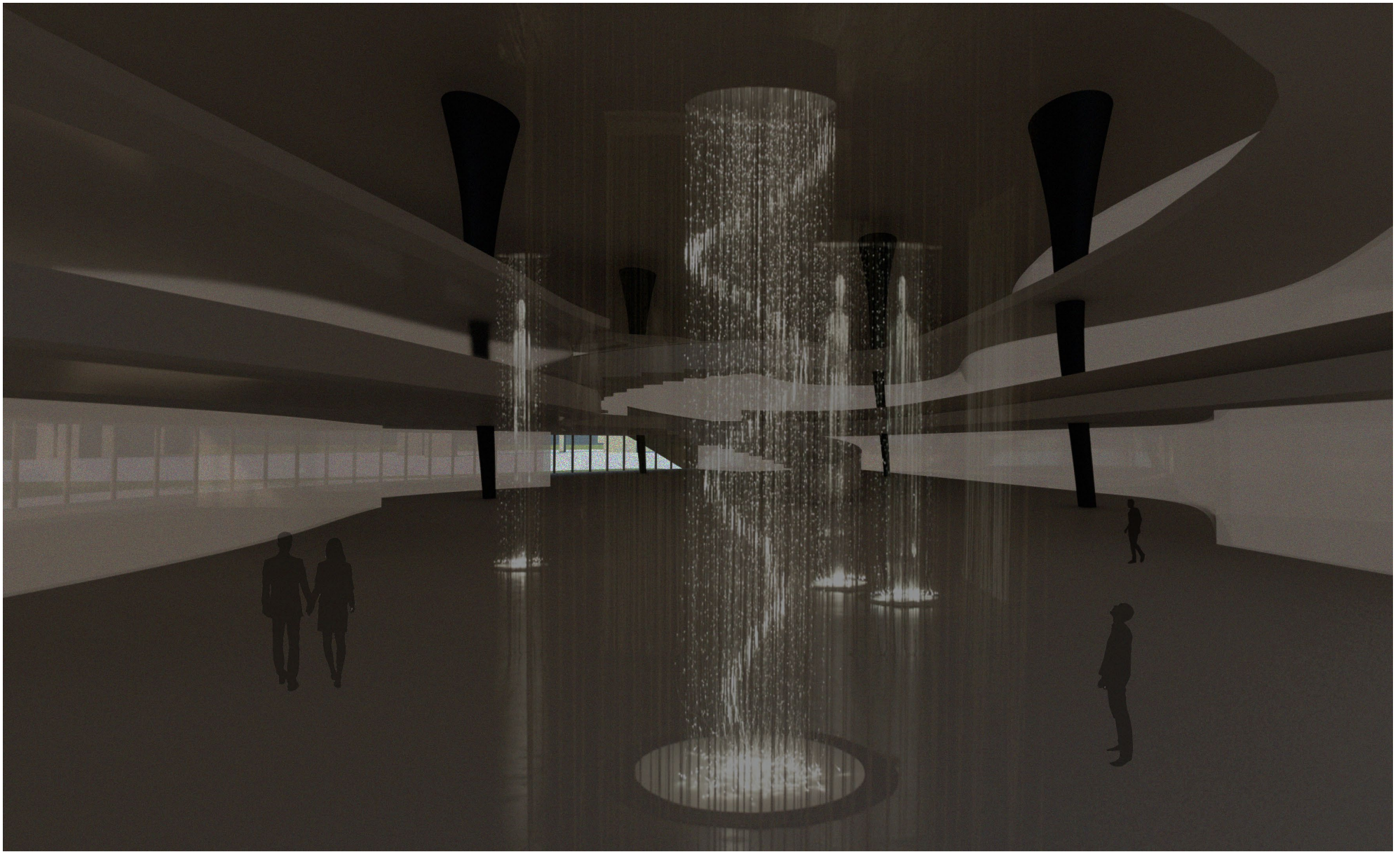
the journey



under a shell



the edge



the light