

BEYOND THE EDGE

Water + Urbanism in Wuhan, China

Most Chinese cities are river cities, evolving over thousands of years along the edges of waterways, linked thru trade to other cities, countries, and continents. The action was at the water's edge where goods were packed up and unloaded, business thrived, and village gossip exchanged. **The edge was the lifeblood of daily existence.**

Beyond the Edge investigates the edge conditions of the Yangtze River and the East Lake in Wuhan, China as models of adaptive density; locations that reach back into the city as much they pull out from the city. The work exhibited here is dedicated to forecasting landscape-based strategies that address ecological, cultural, social, and design issues that complicate the future of urban development. We believe that future land-use and landscape systems must combat climate change and ecological and economic erosion. In order to accomplish this feat, new possibilities must be imagined, natural and cultural systems must be perfected, and the edge must be redefined.



Country / City **United States of America: Pomona, California**
University / School **Cal Poly Pomona Department of Landscape Architecture in collaboration with Huazhong University of Science and Technology, Wuhan, China supported by SWA Laguna Beach**
Academic year **Winter 2018**
Title of the project **Beyond the Edge: Water + Urbanism in Wuhan, China**
Authors **Amy Chen, Hyunji KIm, Danqing Sun, Galina Novikova, Bessy Barahona, Jesus Aguirre (Landscape Architecture Undergraduates)**





PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 **Barcelona**

SCHOOL PRIZE

X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC
ETSAB - Escola Tècnica Superior
d'Arquitectura de Barcelona
Avenida Diagonal, 649 piso 5
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TECHNICAL DOSSIER

Title of the project	Beyond the Edge: Water + Urbanism in Wuhan, China
Authors	Amy Chen, Hyunji Kim, Danqing Sun, Galina Novikova, Bessy Barahona, Jesus Aguirre (Undergraduates)
Title of the course	LA 402L Advanced Landscape Architecture Methods
Academic year	Winter Quarter, 2018, 10-week project
Teaching Staff	Andrew O. Wilcox, Professor, Landscape Architecture
Department/Section/Program of belonging	Department of Landscape Architecture, College of Environmental Design, Cal Poly Pomona
University/School	Cal Poly Pomona Department of Landscape Architecture in collaboration with Huazhong University of Science and Technology, Wuhan, China supported by SWA Laguna Beach

Wuhan is the regional capital of Hubei Province and the largest city in Central China with a population of 10.94 million and growing. A conglomeration of three cities on the middle banks of Yangtze River, Wuhan is a city of water. Once known as a city of 1000 lakes, it is situated at the critical confluence of the Han and Yangtze rivers. Water in Wuhan gives life and defines culture but also destroys.

Due to rapid urbanization and subsequent significant flooding disasters, the Wuhan has slowly pulled back from the edge and armored itself against the rivers and lakes with dykes, flood walls and other infrastructural barriers of singular use. This urban design project seeks to re-link the city to the water- lakes and river edges- as the most significant driver of cultural connection and urban morphology. The project develops two edge types, the river edge and the lake edge, as prototypes to explore edge conditions as a model of cultural thickness and adaptive density; locations where an adaptive and performative future emerges.

Through the center of Wuhan runs the mighty Yangtze River and within the urban fabric, sits the East Lake, one of the largest ecological amenities of the region. The Yangtze River project is a waterfront site cut-off from the river by flooding and transportation infrastructure. To reconnect the city with the river, the urban fabric weaves and reaches to the edge by performative spaces to support everyday lives of residents. The East Lake project is set within the east campus of Huazhong University. A wall divides the east campus and east lake, diverting a small channel called the Huxi River to the lake with polluted waters.

The people of Wuhan have adapted to these conditions over thousands of years and the projects presented here aim to leverage and preserve this cultural relevance and resilience to and of water. Both projects aim to activate a resilient, performative edge condition with integrated green infrastructure and urban design strategies as catalyst for an adaptive environmental future.

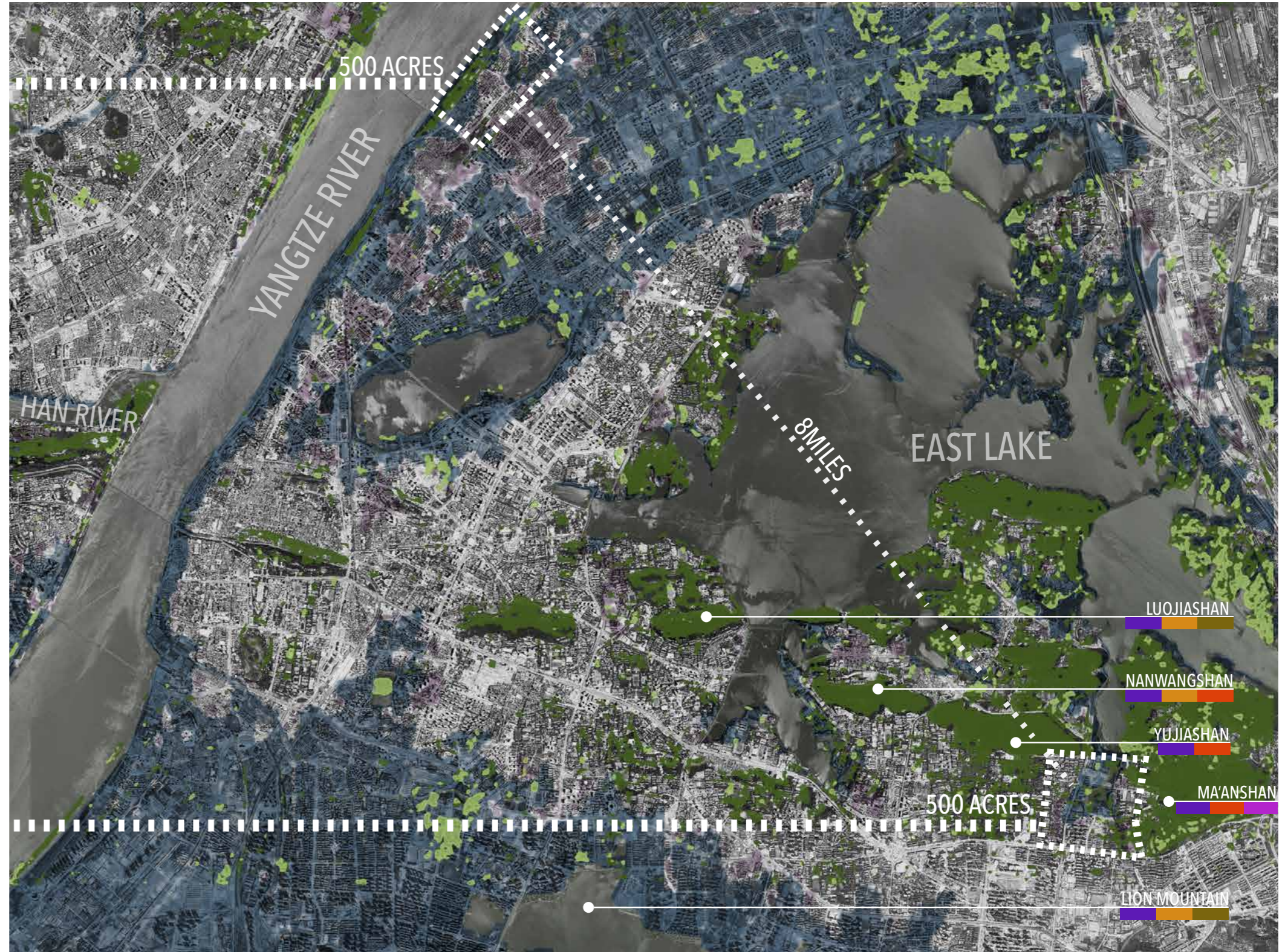
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Consult the web page <http://landscape.coac.net/>

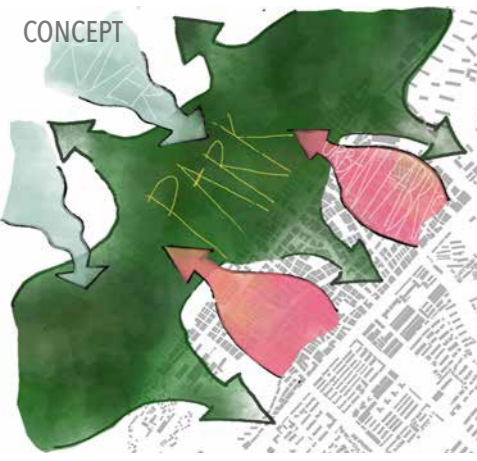


LEGEND

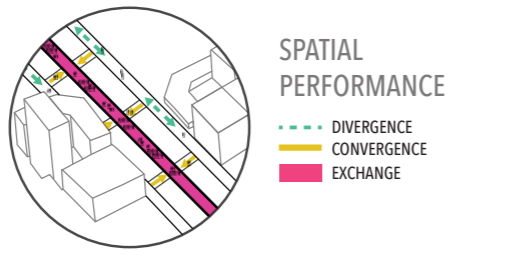
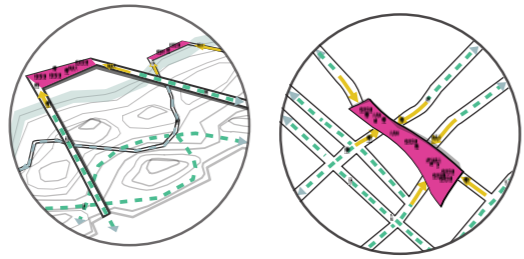
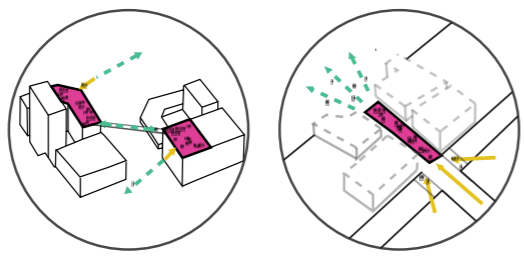
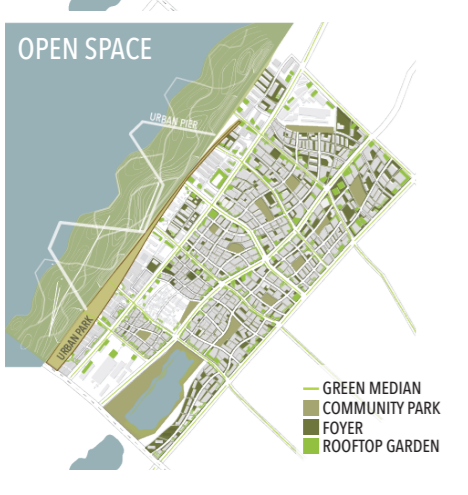
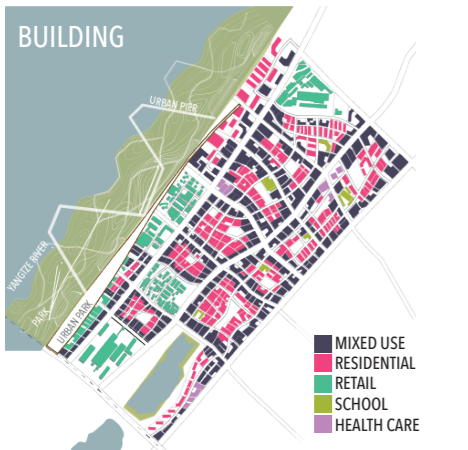
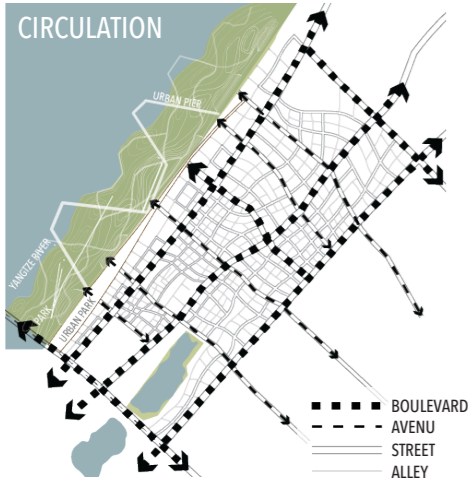
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|  WOODLAND |  HERBACEOUS |  EVERGREEN BROAD-LEAVED FORESTS |  LIQUIDAMBAR FORMOSANA |  PINUS MASSONIANA |
|  FLOODING ZONE | |  DECIDUOUS BROAD-LEAVED FORESTS |  WARM NEEDLE-LEAF FORESTS | |



CONCEPT

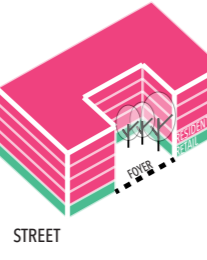
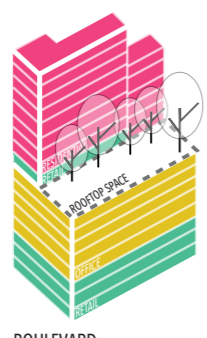


URBAN FABRIC + SYSTEM



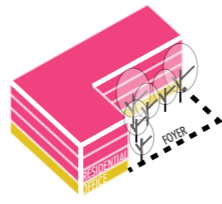
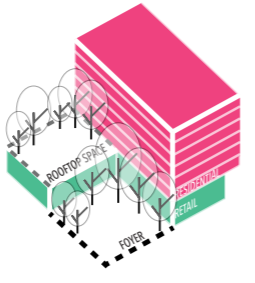
SPATIAL PERFORMANCE

- DIVERGENCE
- CONVERGENCE
- EXCHANGE

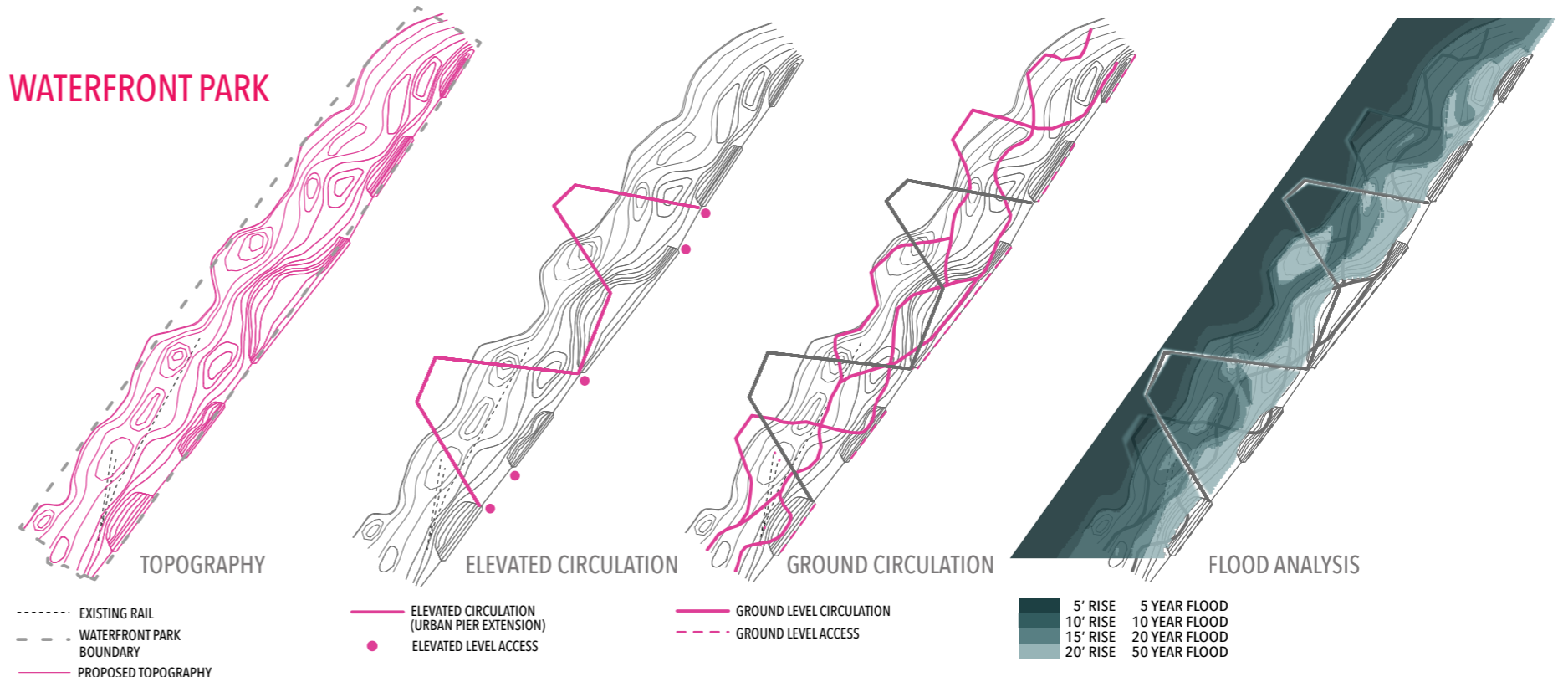


MIX USE BUILDING TYPOLOGY

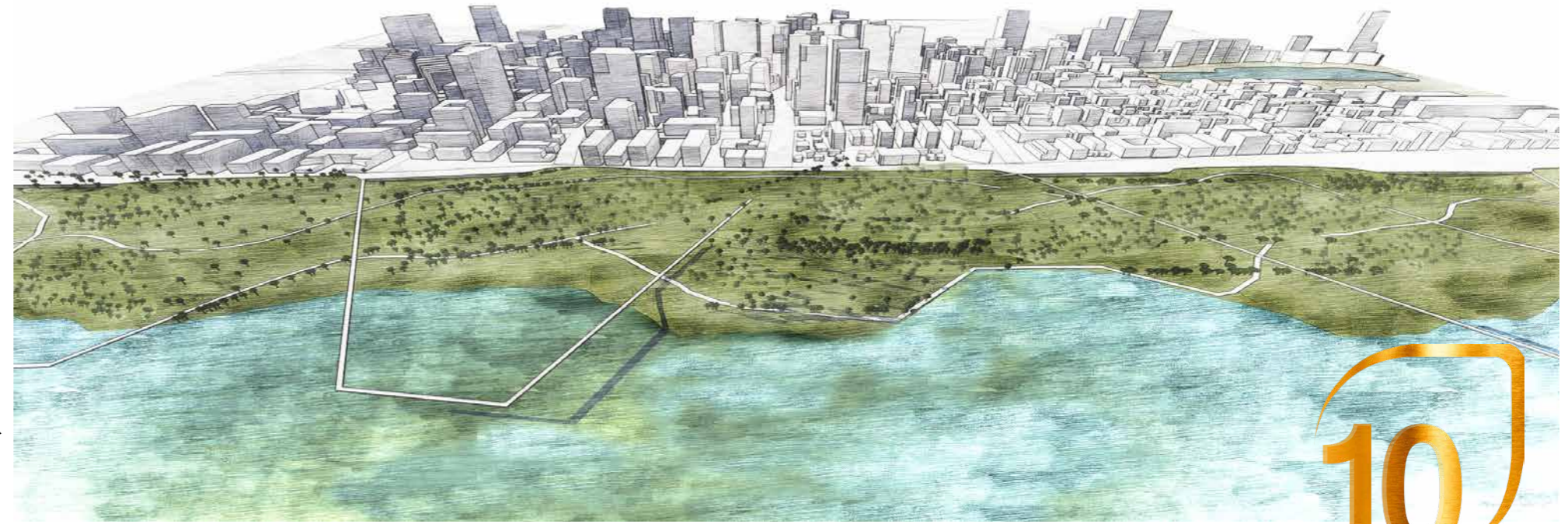
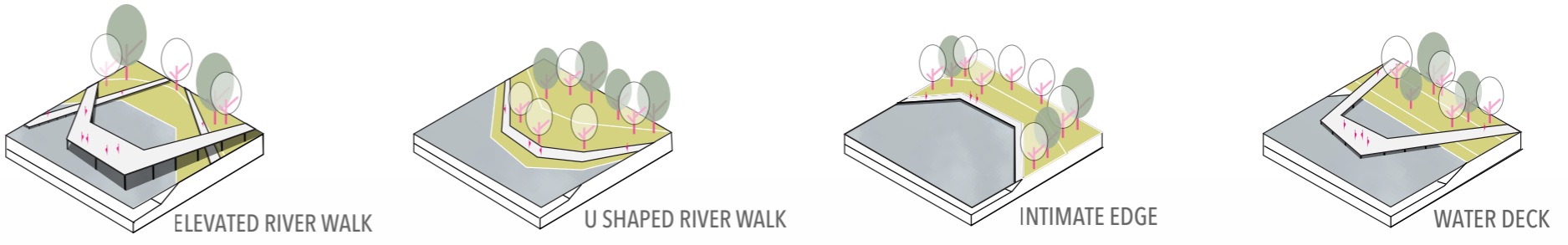
- RESIDENTIAL
- RETAIL
- OFFICE



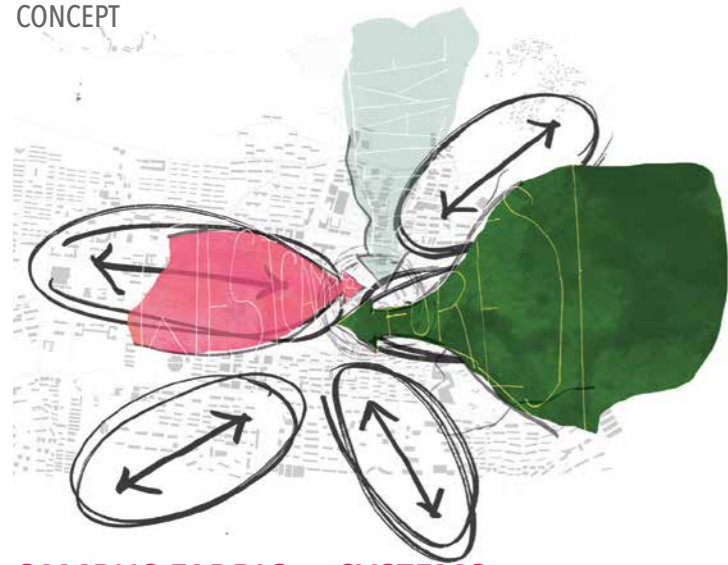
WATERFRONT PARK



WATER EDGE TYPOLOGY

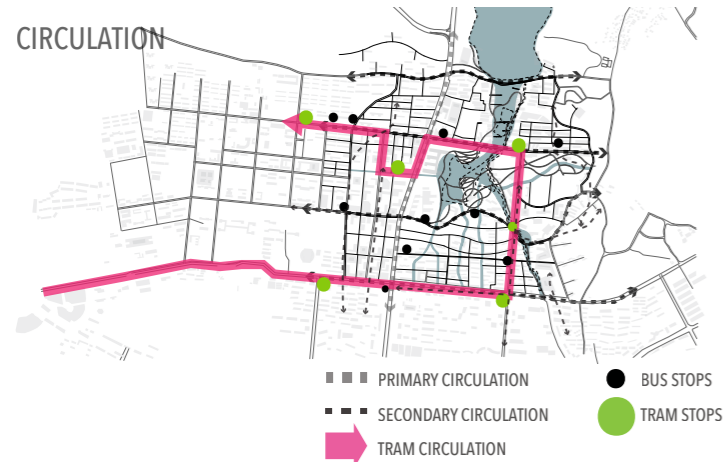


CONCEPT



CAMPUS FABRIC + SYSTEMS

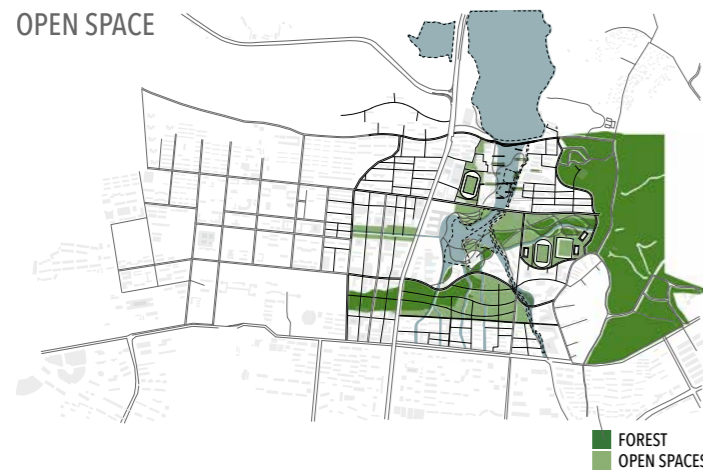
CIRCULATION



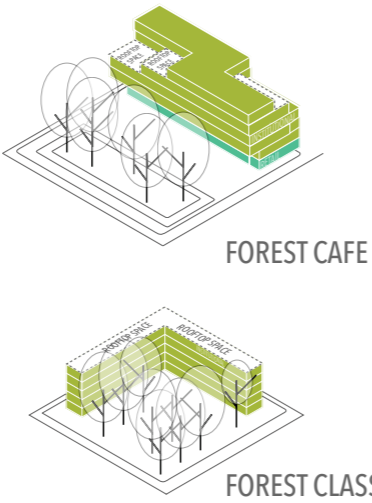
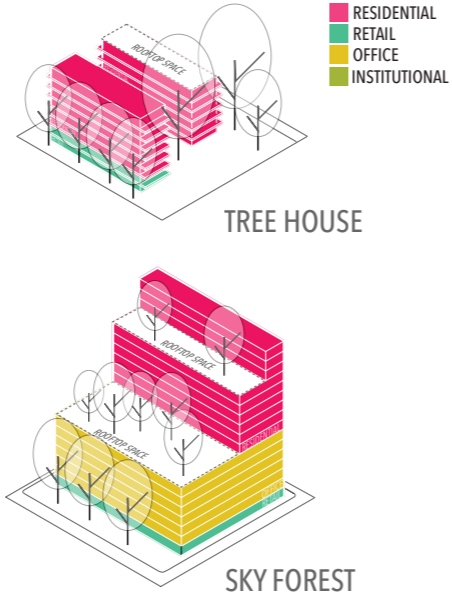
BUILDING



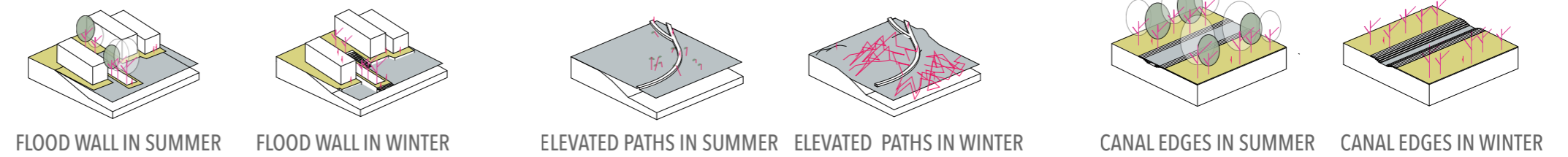
OPEN SPACE



BUILDING TYPOLOGY



WATER EDGE TYPOLOGY



WATER EDGE NEIGHBORHOODS

