First International Conference organized within the framework of PolyUrbanWaters Research and Project Network (BMBF 2019-2025)

## POLYURBAN VATERS

Polycentric management of urban waters in fast-growing cities and peri-urban areas in Southeast Asia

Renee Y. Chow / University of California Berkeley

Urban Water Resources in the World and in Southeast Asia

Living With Water: Urban Challenges and Frameworks

24-25<sup>th</sup>
March
2021

Online /
Berlin / Kratie /
Sleman /
Vientiane













Rudabai Vav, Adalaj, India

Lake Titicaca, Peru



Lautma

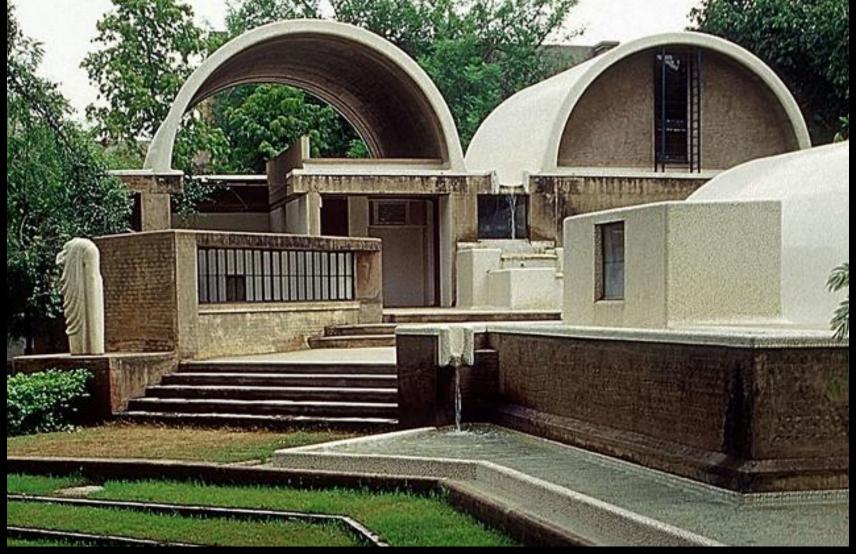


Venice, Italy



Ahmedabad, India- Sangath

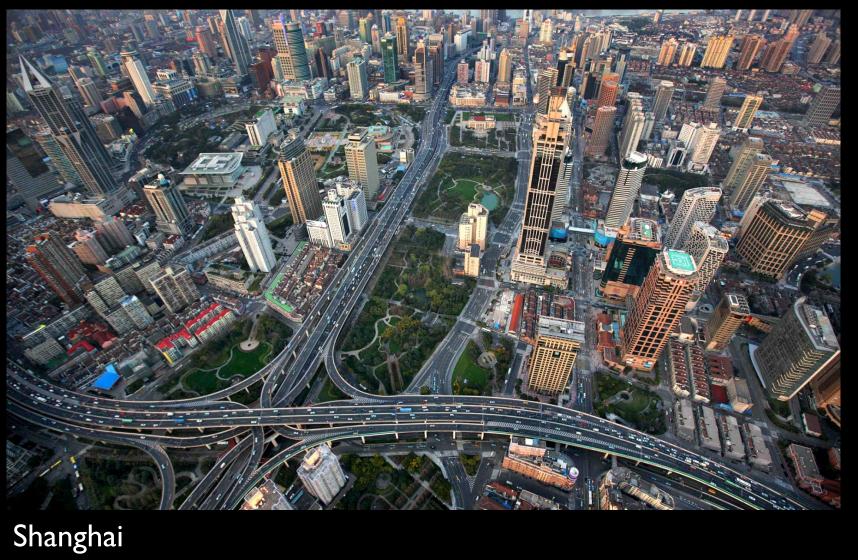
Rudabai Vav, Adalaj, India





Venice, Italy- Querini Stampalia

Amsterdam, The Netherlands-Floating homes

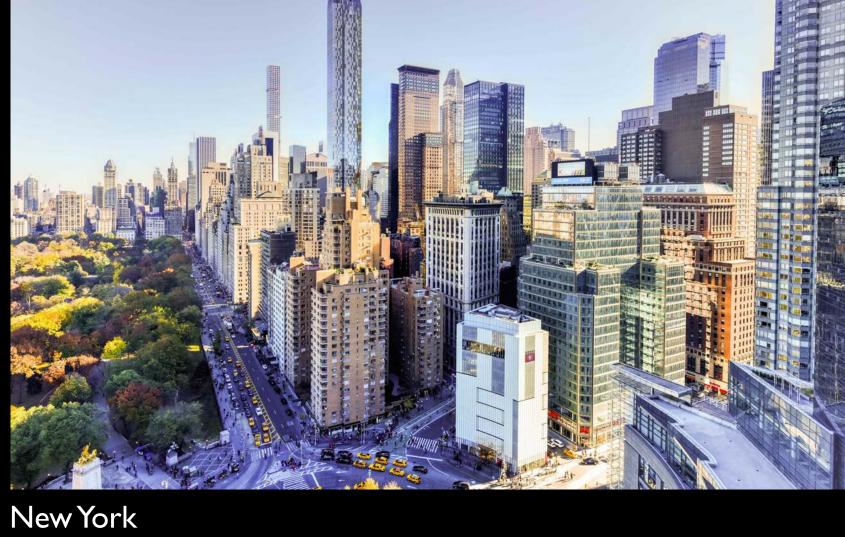






New York San Francisco



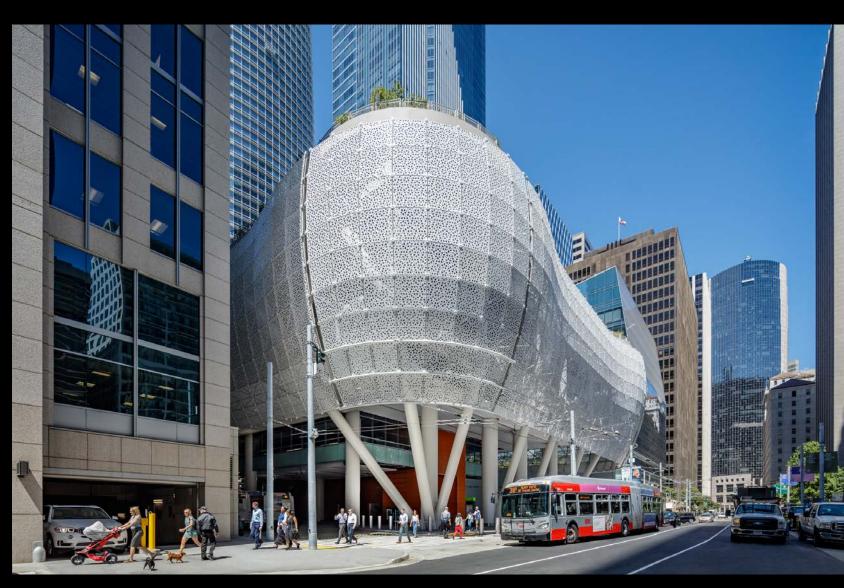












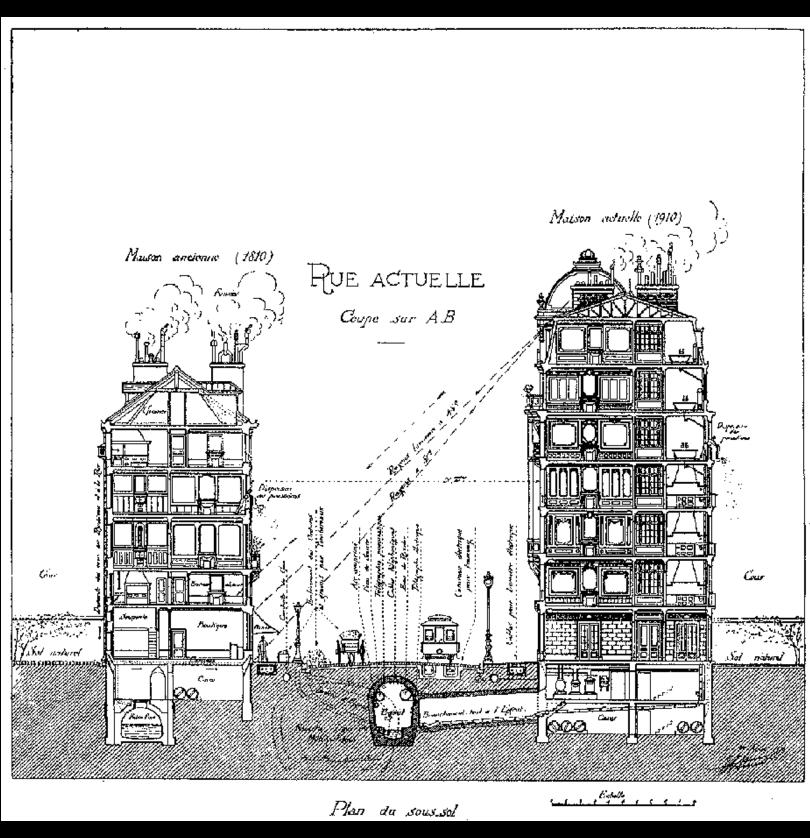
San Francisco



London Sewerage System



London Sewerage System



Paris, E. Hénard Street Section



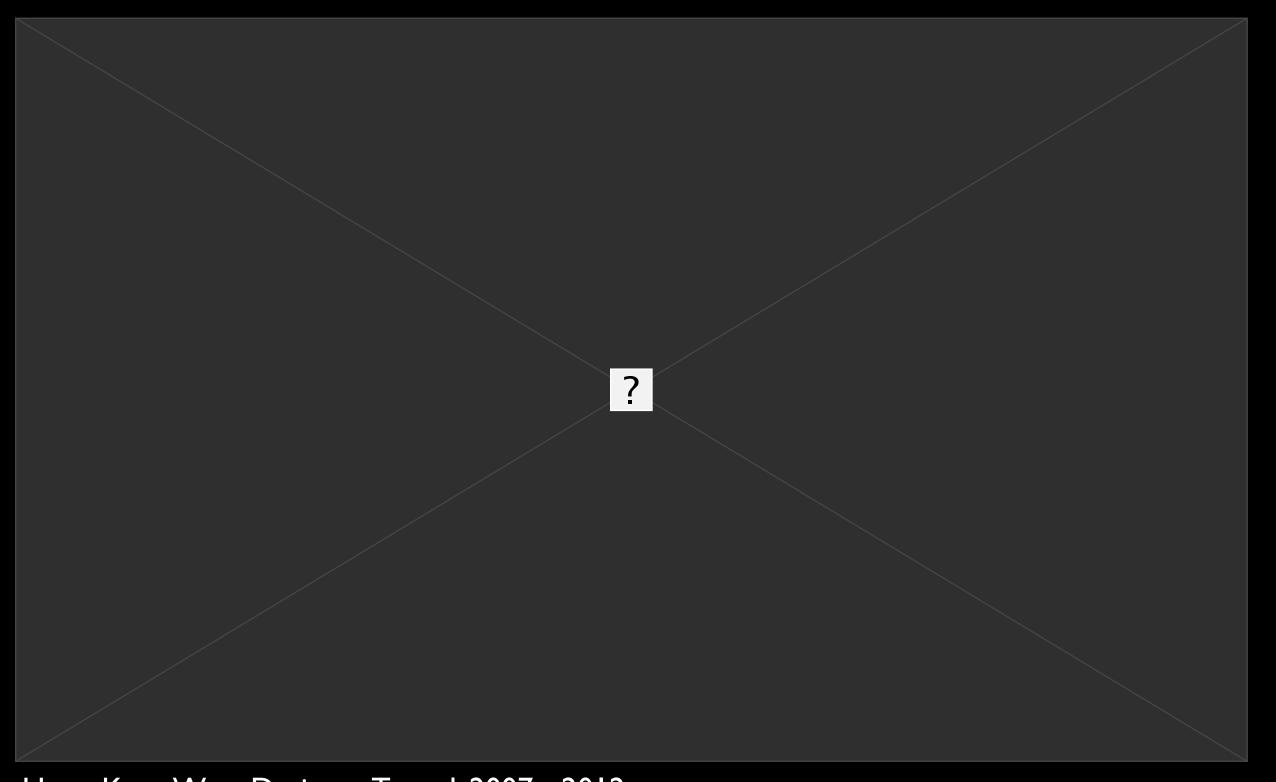
Plan du sous sol





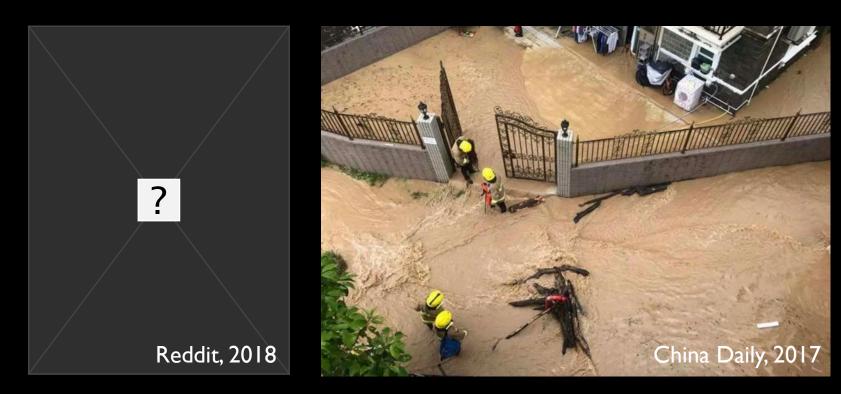
Global Designing Cities Initiative

London Sewerage System



1. Heavy rainfall 2. Surface runoff 3. Seawater intrusion Stormwater will be conveyed to the sea near Cyberport via the main tunnel Seawater intrusion Intercepting tunnel Mid-stream: undergound Downstream: enlarged Upstream: rain tunnels drainage channels stormwater storage tanks

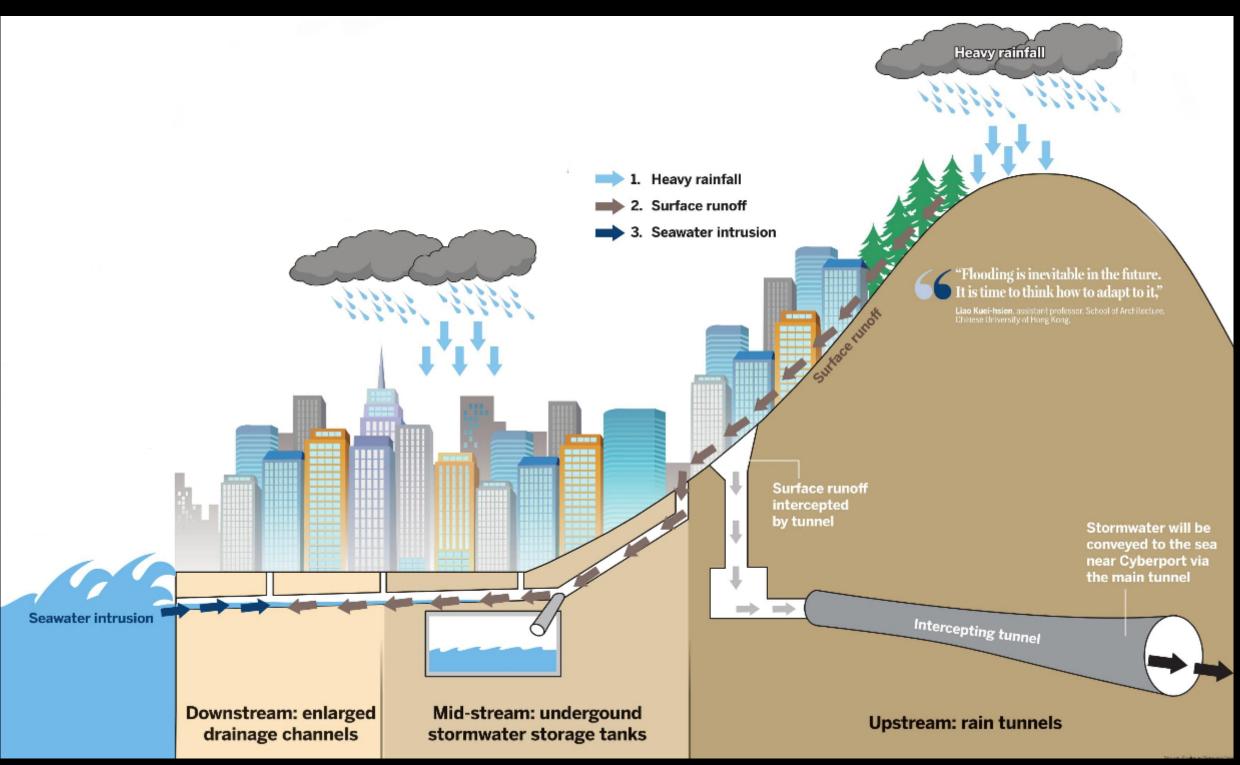
Hong Kong West Drainage Tunnel, 2007 - 2012



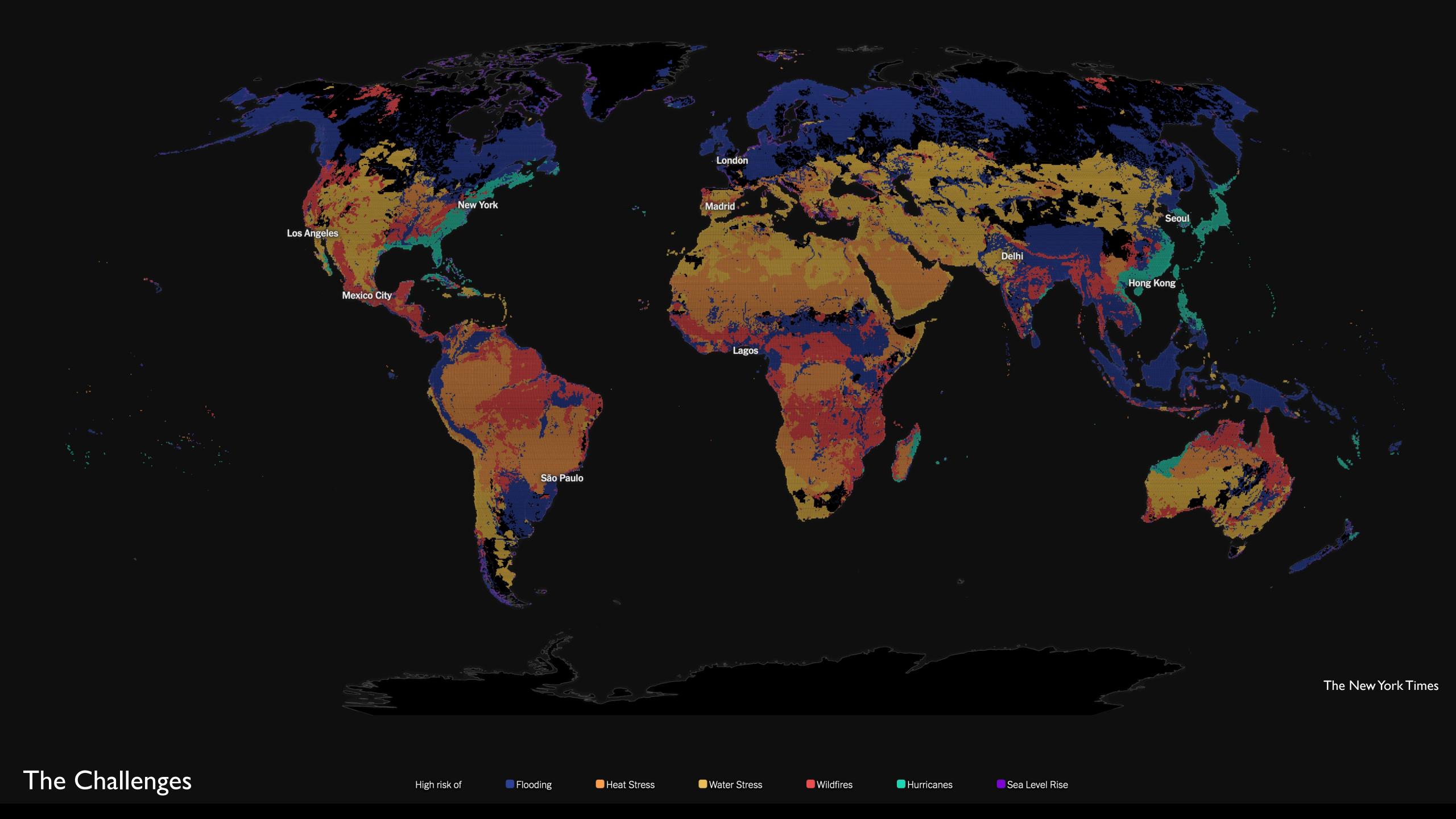


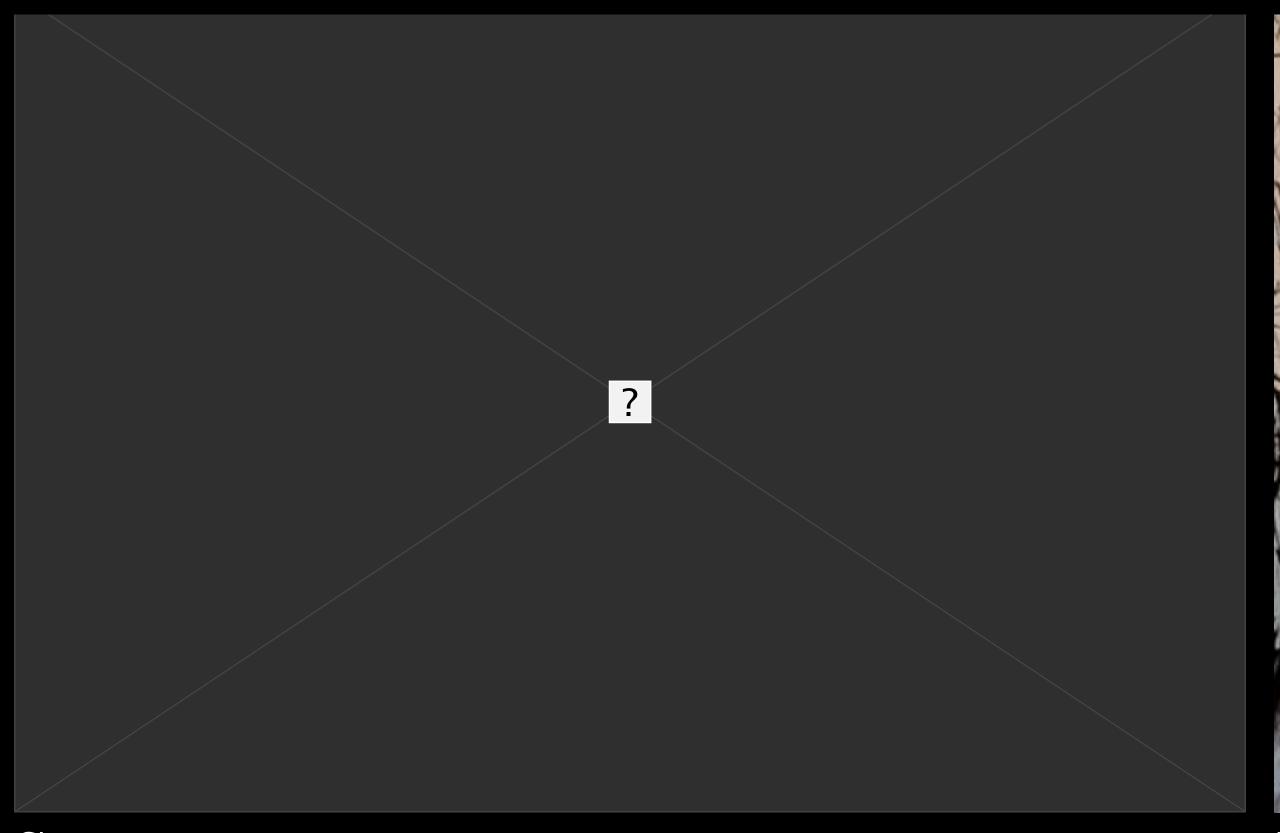






Hong Kong West Drainage Tunnel, 2007 - 2012







Chennai





Berkeley, CA

ZhuJiaJiao, Qingpu

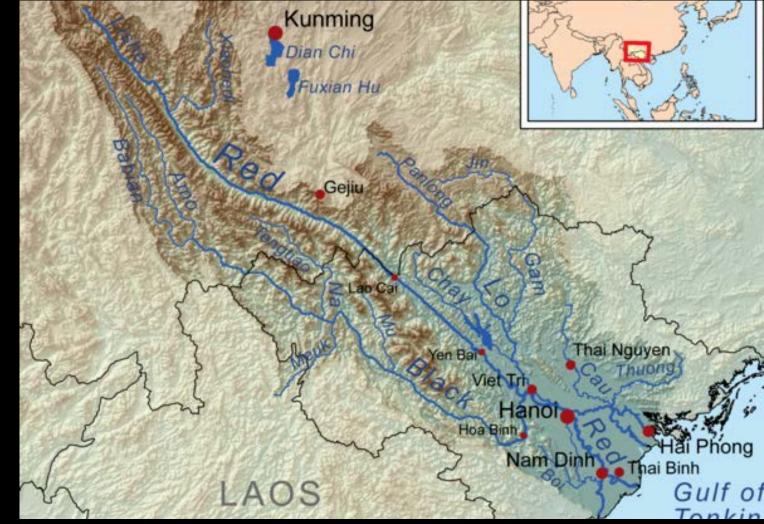
Hanoi, Vietnam



San Francisco, Bay Area



Yangtze River Delta



Red River Delta



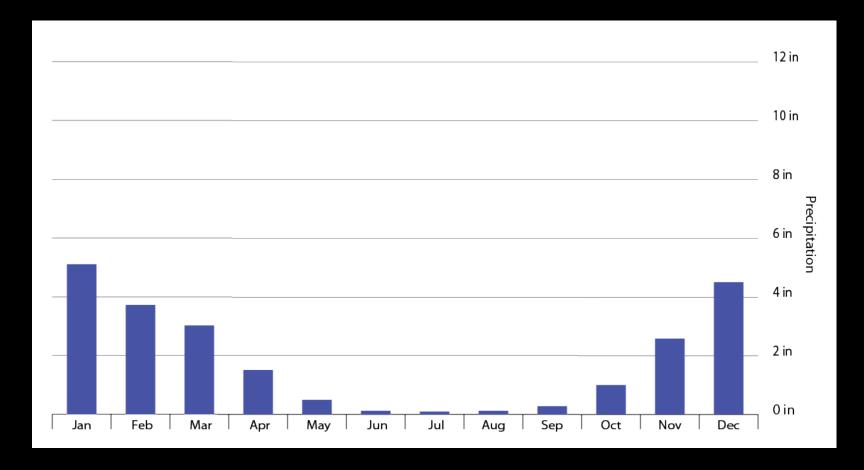
Berkeley, CA

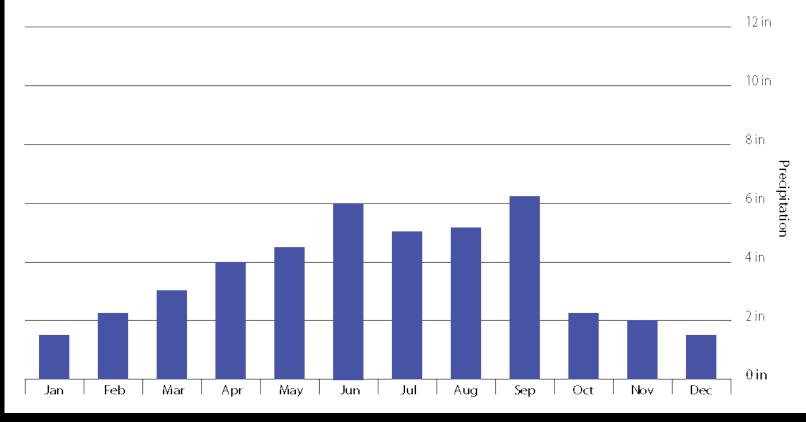


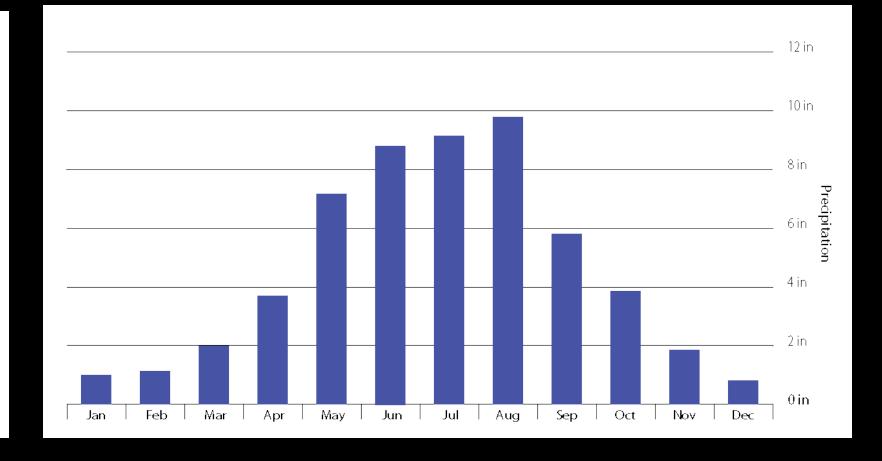
ZhuJiaJiao, Qingpu

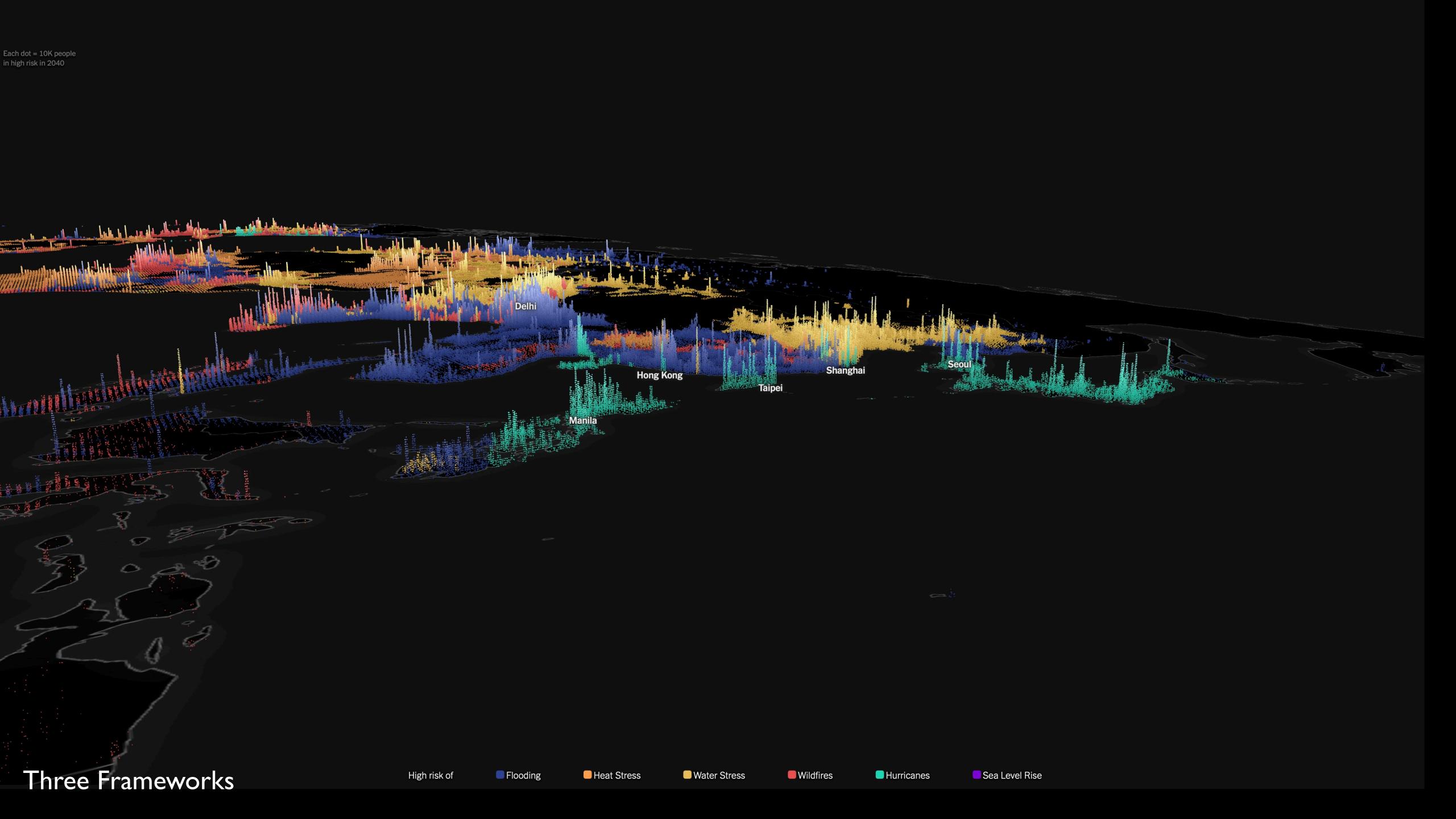


Hanoi, Vietnam





















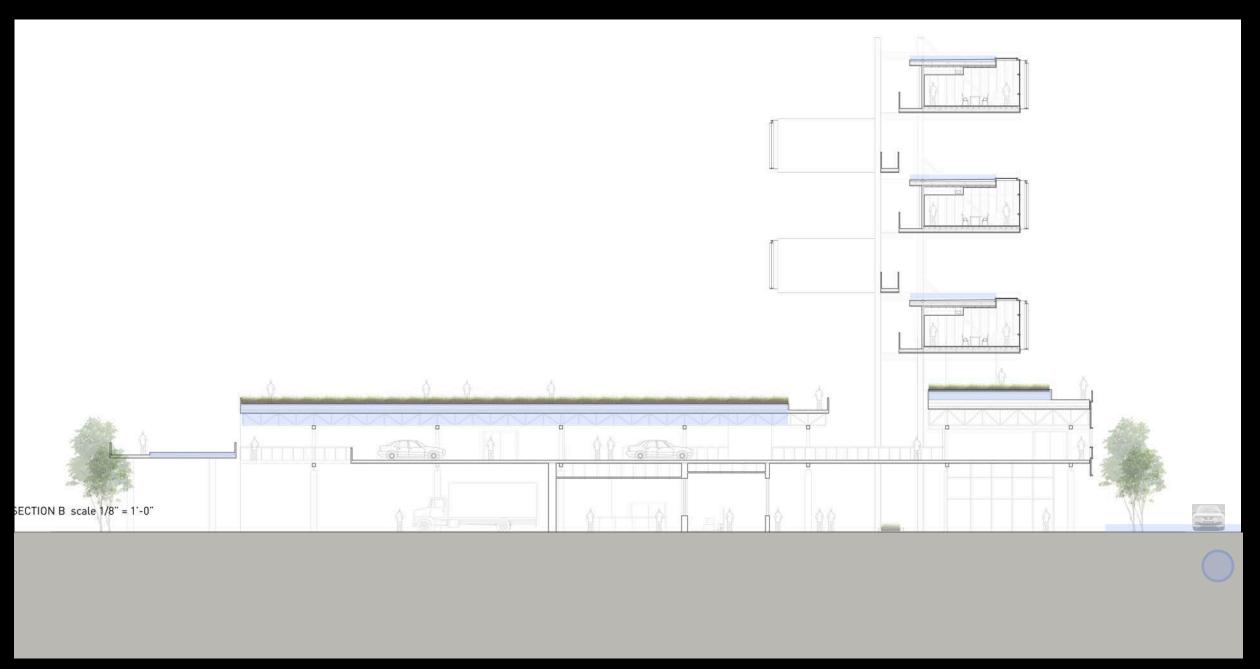








3- value the ground



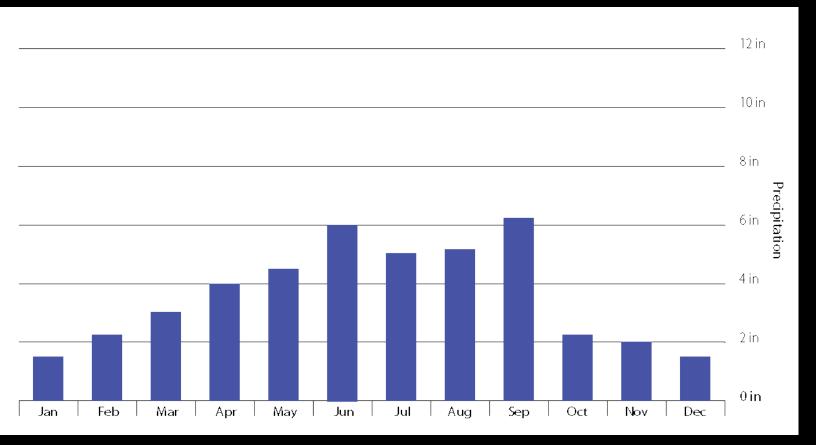


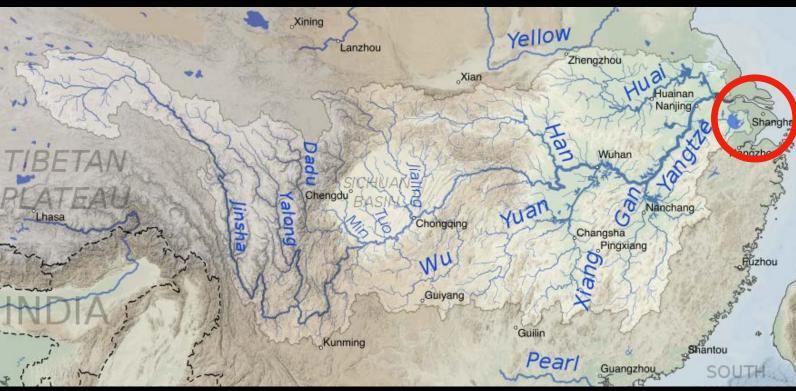
3- value the ground







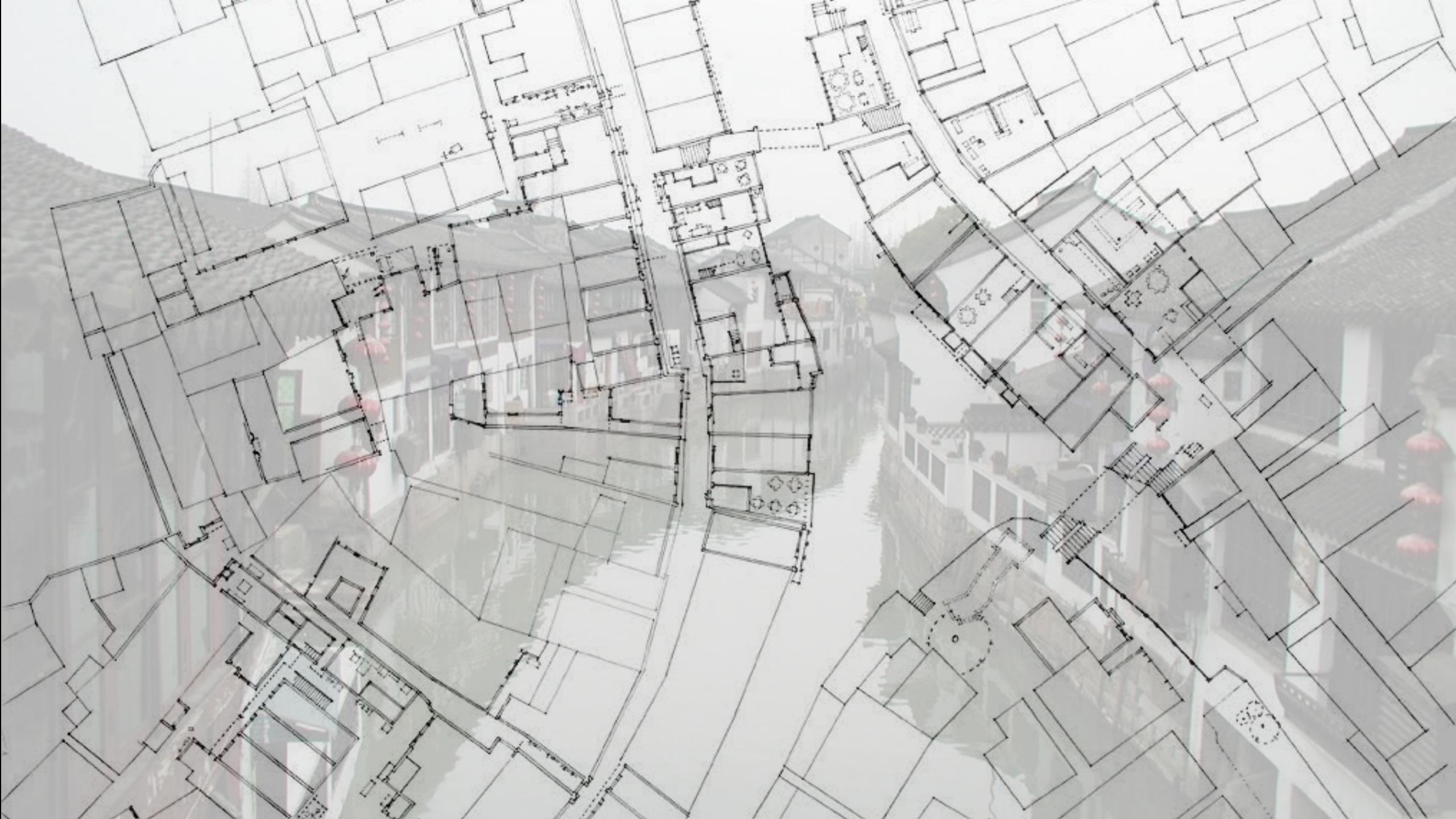












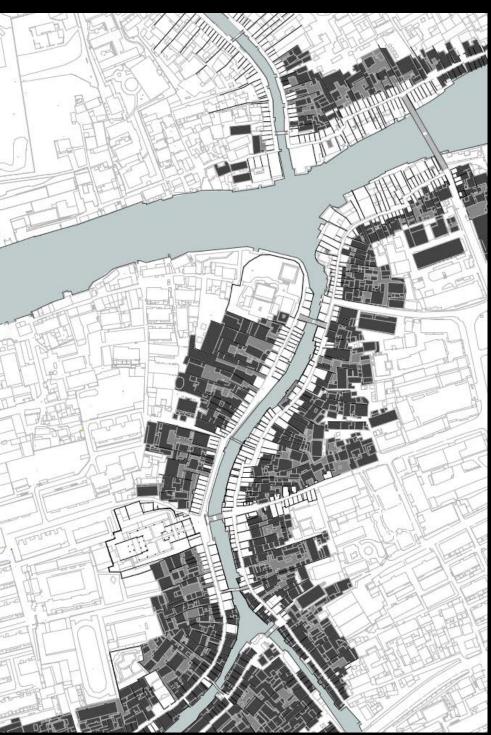




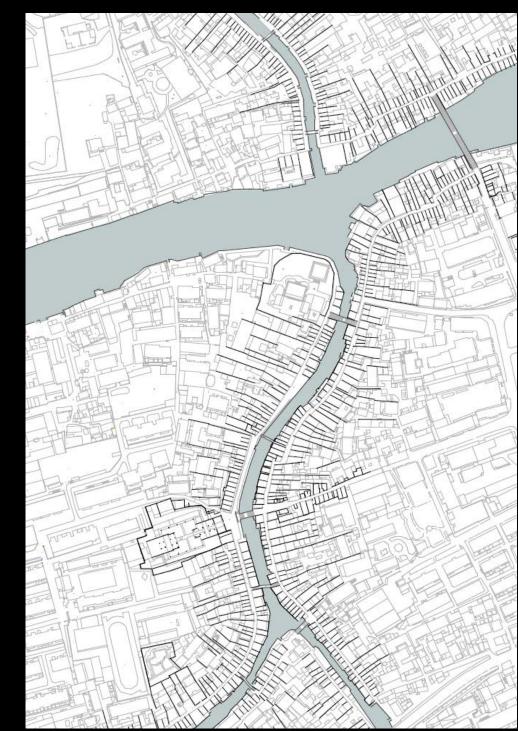




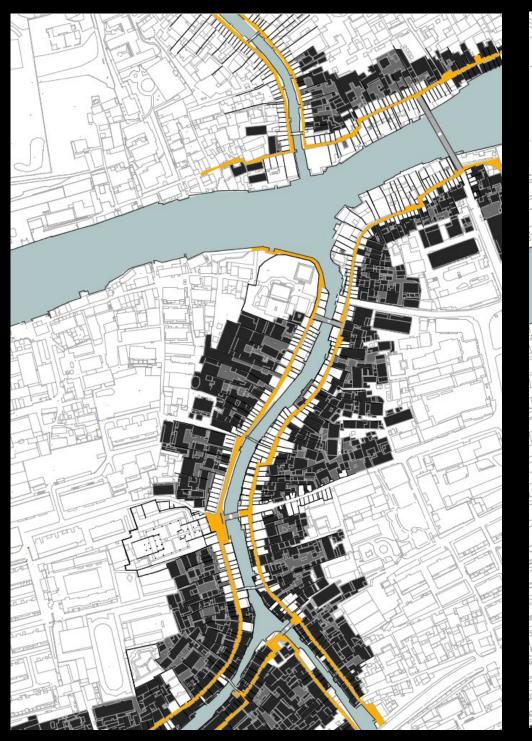




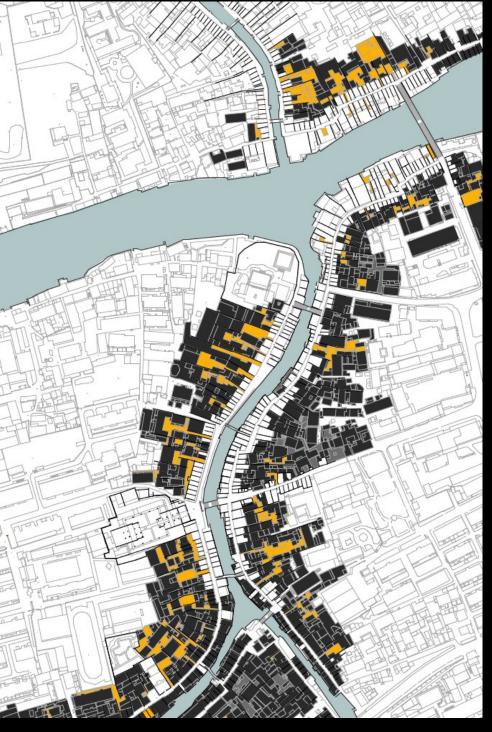
Water flow is the primary form giver



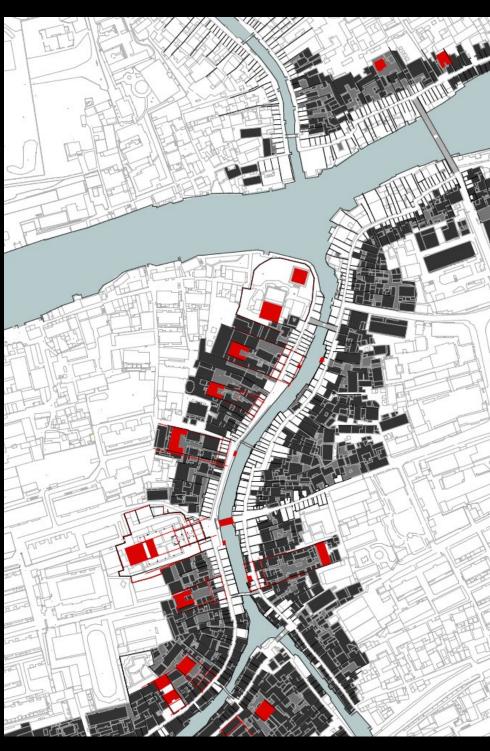
Structural party walls extend the levees



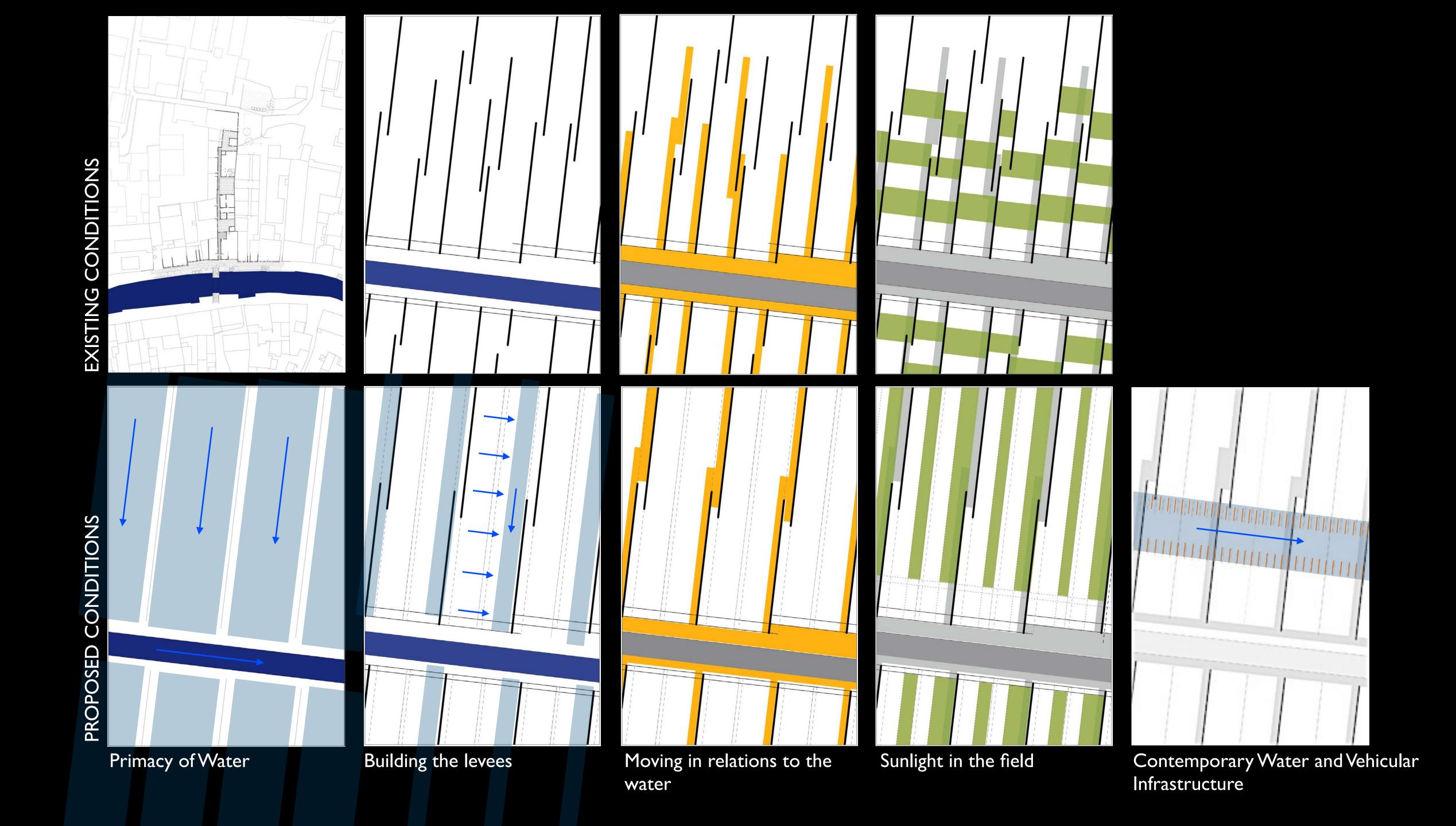
Public access is along the water

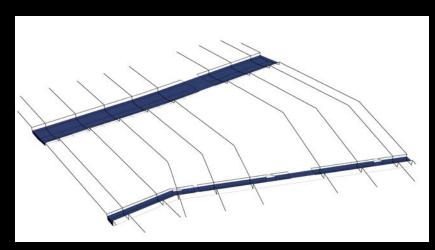


Residential access it to and from the water, through courtyards of sunlight



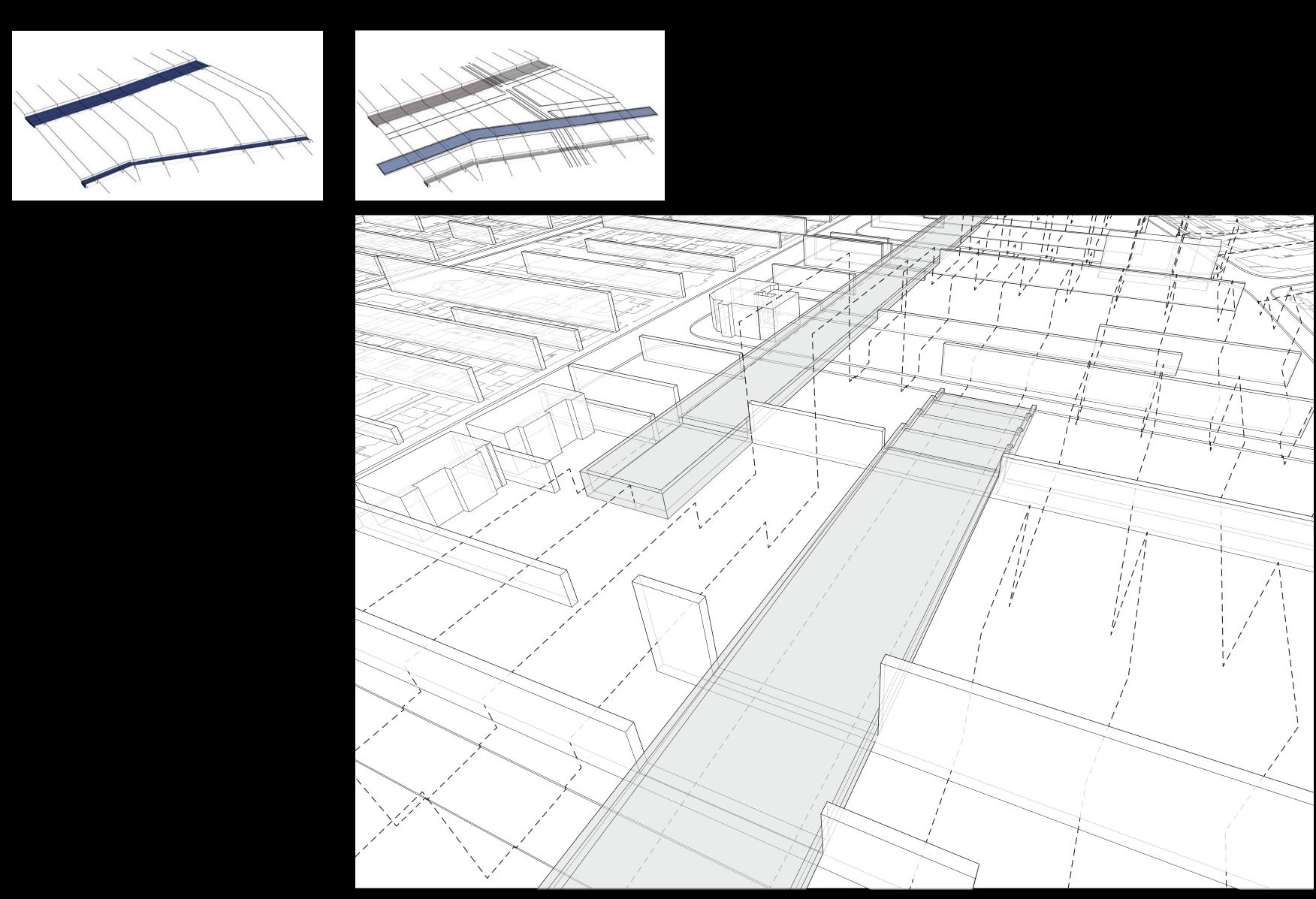
Key buildings deep in the fabric





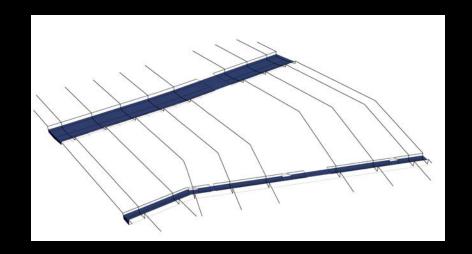


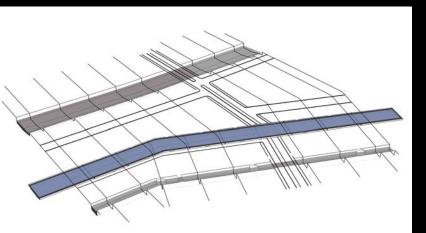
Primacy of Water



Primacy of Water

Contemporary Water and Vehicular Infrastructure

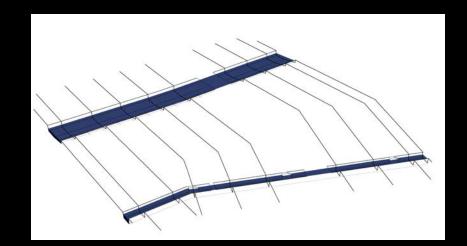


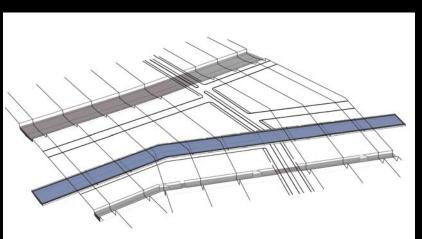




Primacy of Water

Contemporary Water and Vehicular Infrastructure

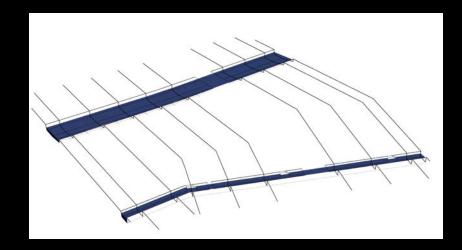


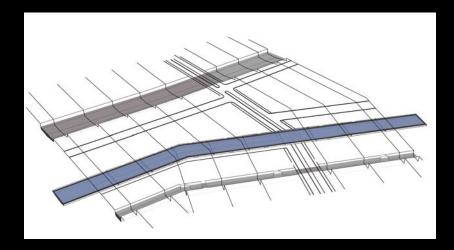


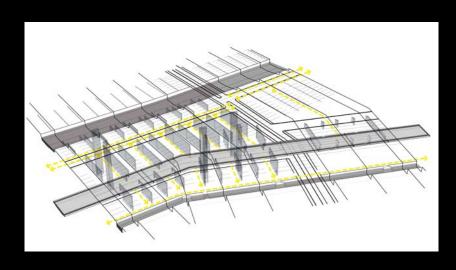


Primacy of Water

Contemporary Water and Vehicular Infrastructure











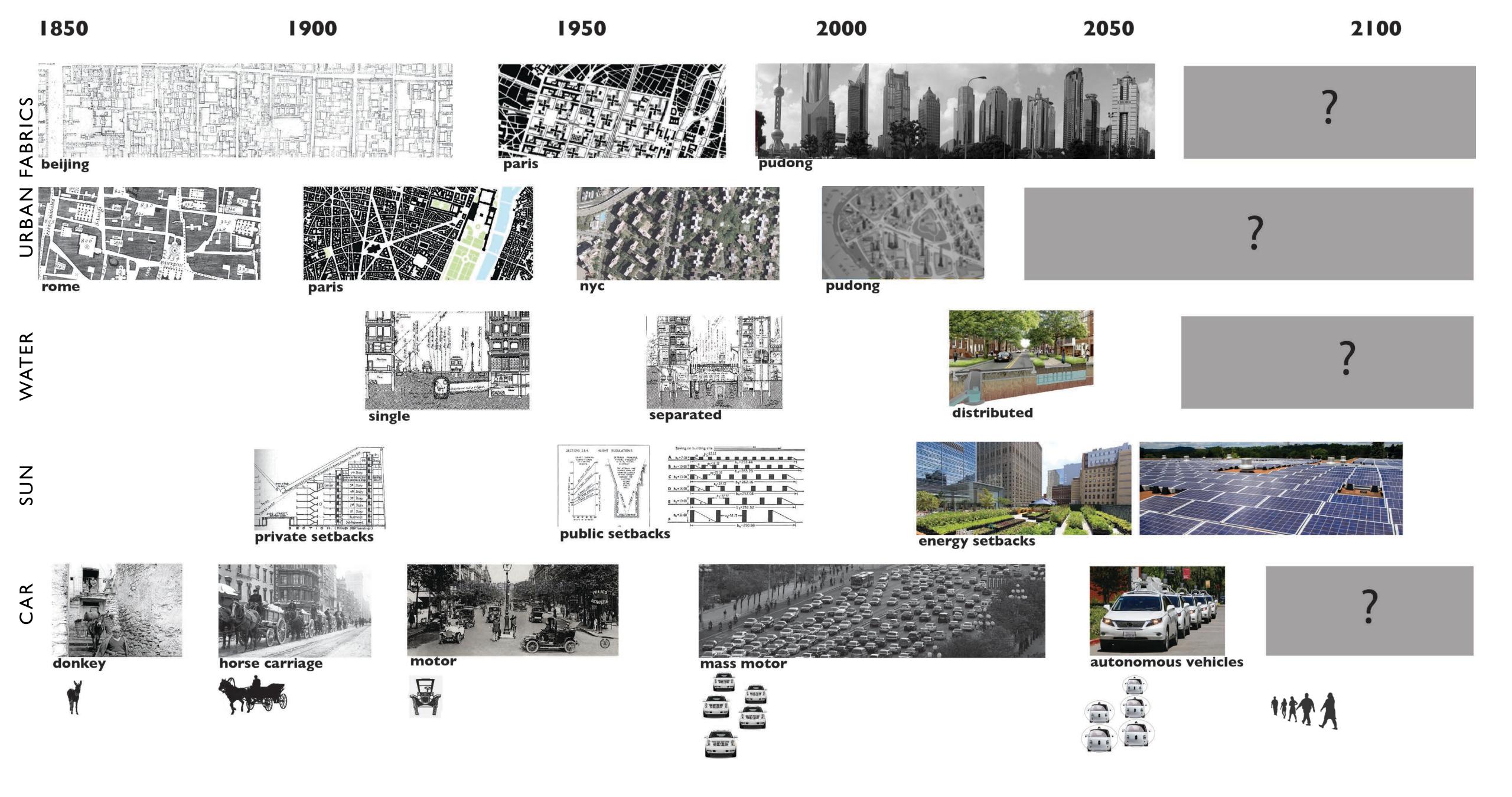
Primacy of Water

Contemporary Water and Vehicular Infrastructure

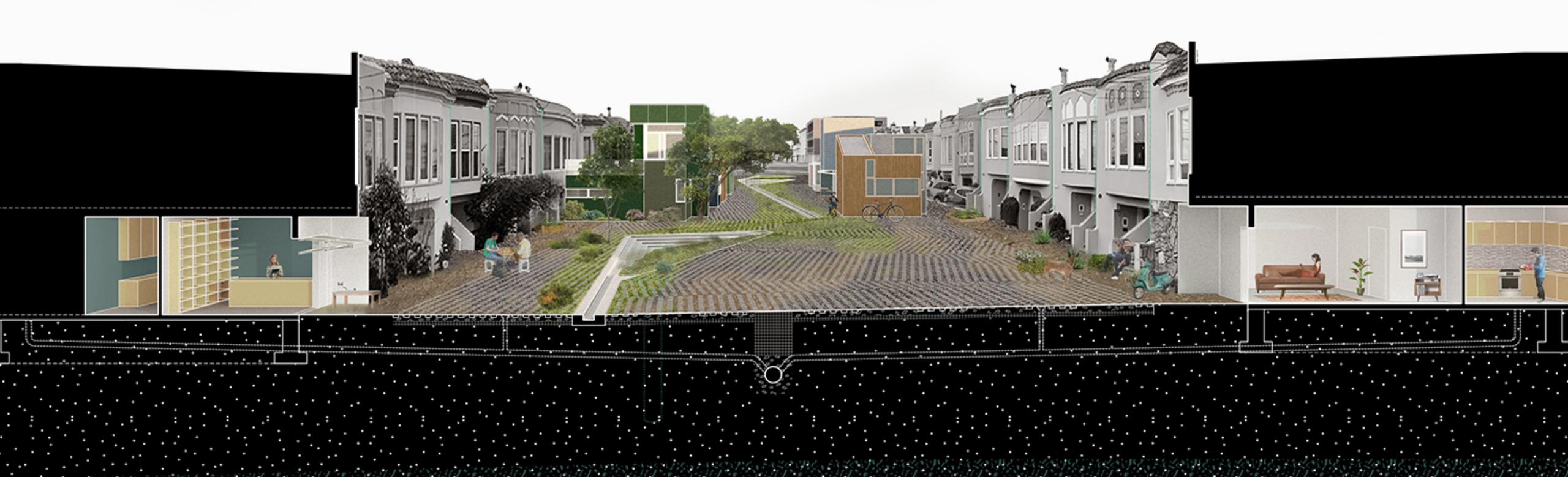
Building the levees

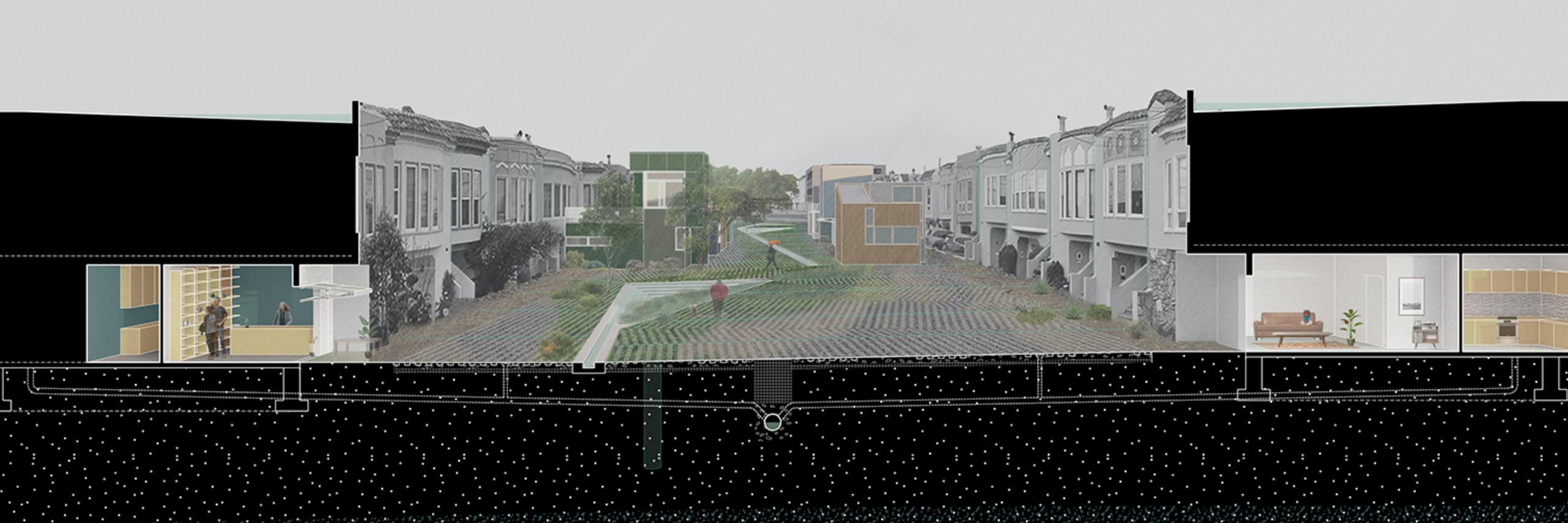
Moving in relation to the water

Sunlight in the field









Proposed Street Section- Winter Rains

Retrofit San Francisco

