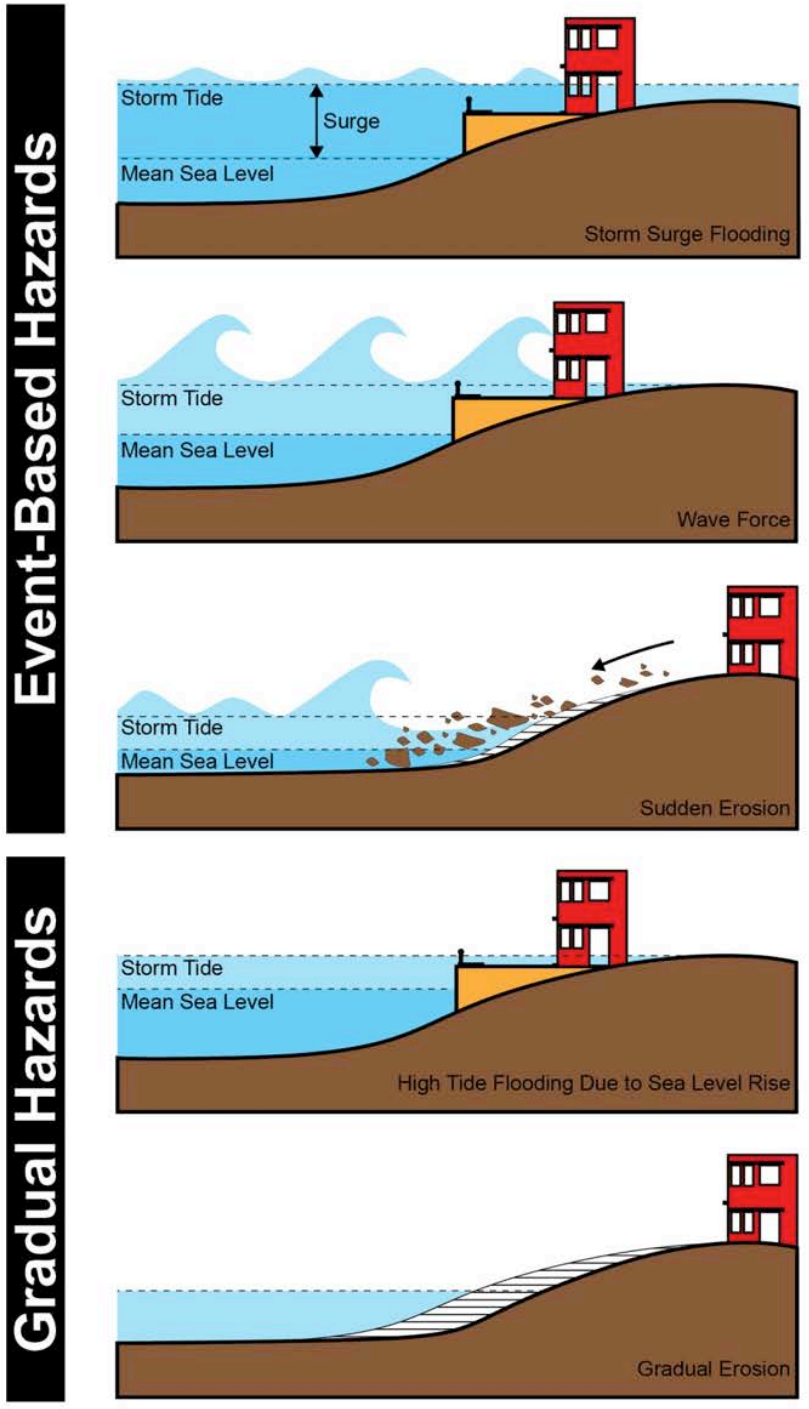
Coastal hazards can be categorized into sudden events and gradual changes in conditions.



Courtesy: OMA Rebuild by Design Team

Example of Co-Benefits for RBD Project in South Bronx, NYC

Courtesy: PennDesign/OLIN Rebuild by Design Team

Example of Co-Benefits for RBD Project in Hoboken, NJ

OBJECTIVES:
A COMPREHENSIVE SOLUTION

MANAGES WATER
(FOR DISASTER AND FOR GROWTH)

MITIGATES FLOOD INSURANCE
(REASONABLE PREMIUMS THROUGH REDRAWING FLOOD MAP AND/OR "ZONE X" FEDERAL FLOOD INSURANCE EXEMPTION)

DELIVERS CO-BENEFITS
(CIVIC, CURTURAL, RECREATIONAL, AND COMMERCIAL AMENITIES)

Courtesy: OMA Rebuild by Design Team

Integrated & Leveraged Solutions

Multi-Disciplinary & Collaborative

Regional, Systems Approach

Iterative & Participatory Process

Multiple Hazards & Co-Benefits

Integrated & Leveraged Solutions

Integrated & Leveraged Solutions

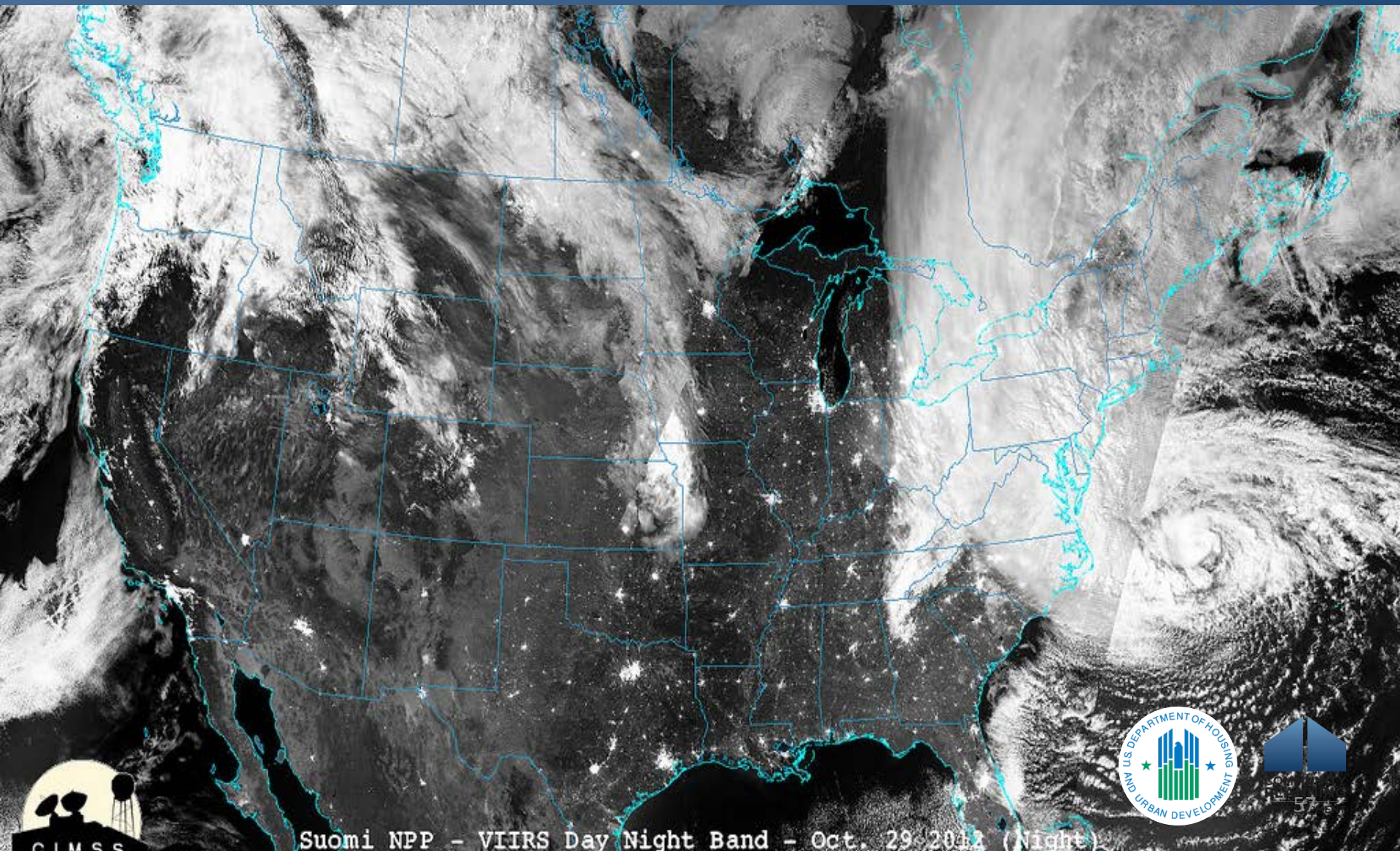
- Building a wall, elevating, or moving out of harm's way can be effective methods of reducing flood risk.

- However, when used alone as singular approaches to address the multi-faceted problem of building resilience, they often fail to provide a robust and holistic solution – especially in dense urban communities.

Integrated & Leveraged Solutions

- The best and most appropriate tools will be dictated by the unique characteristics of each individual landscape – its people, its buildings, its natural environment, its economy… resilience is place-specific.

- There is no template for resilience… it's not defined by what it looks like, it's about how it performs.


Suomi NPP - VIIRS Day Night Band - Oct. 29 2011 (Night)

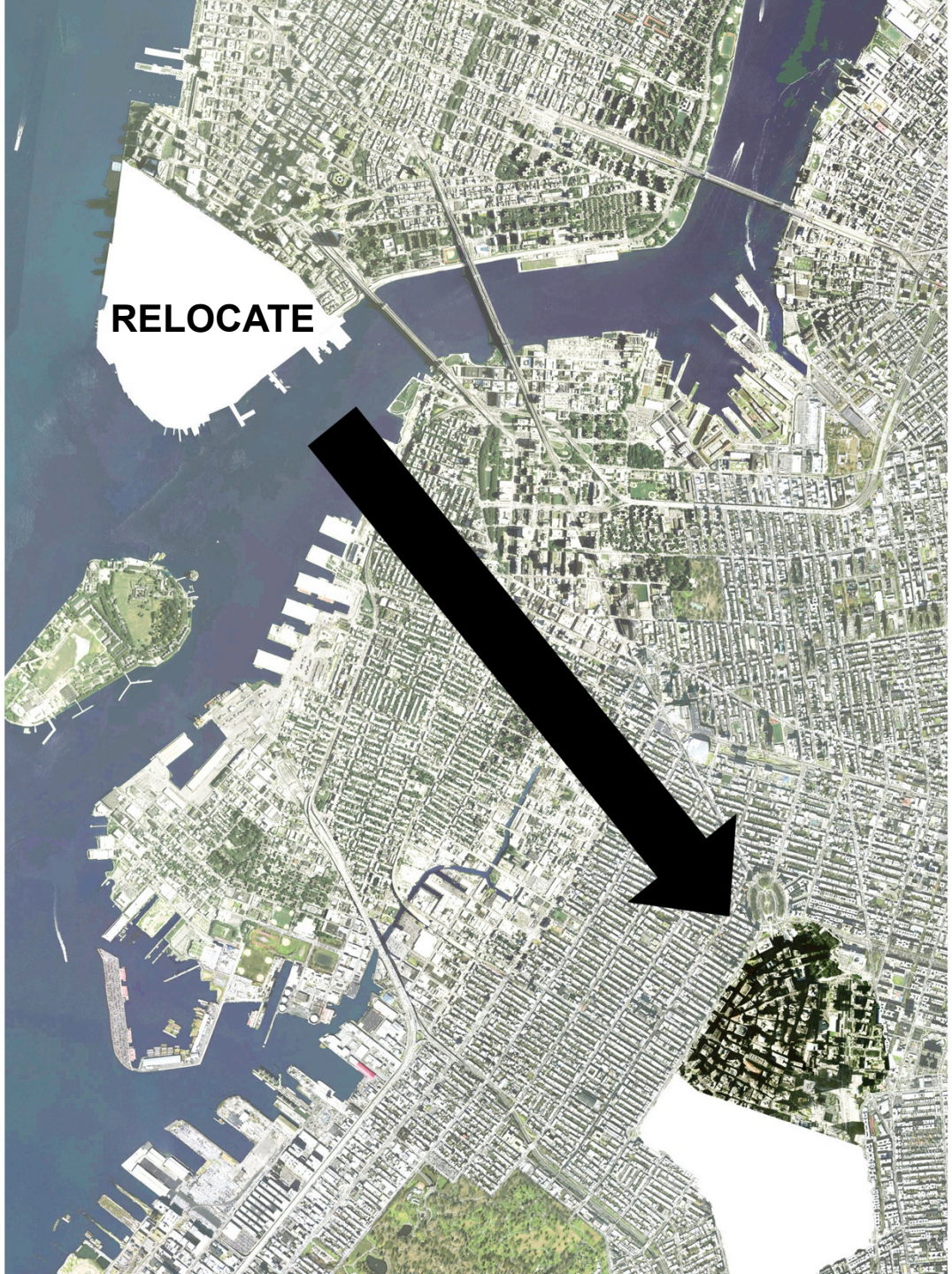
PHOTOCREDITS: IWAN BAAN

FORTIFY

Courtesy: OMA Rebuild by Design Team

ELEVATE

Painting by Amy Casey, 2010 ©



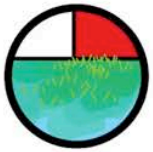
Courtesy: OMA Rebuild by Design Team

DESIGN APPROACHES

Floating and/or amphibious construction

Catch Basin / Retention Pool

Floodwalls / Dry Floodproofing

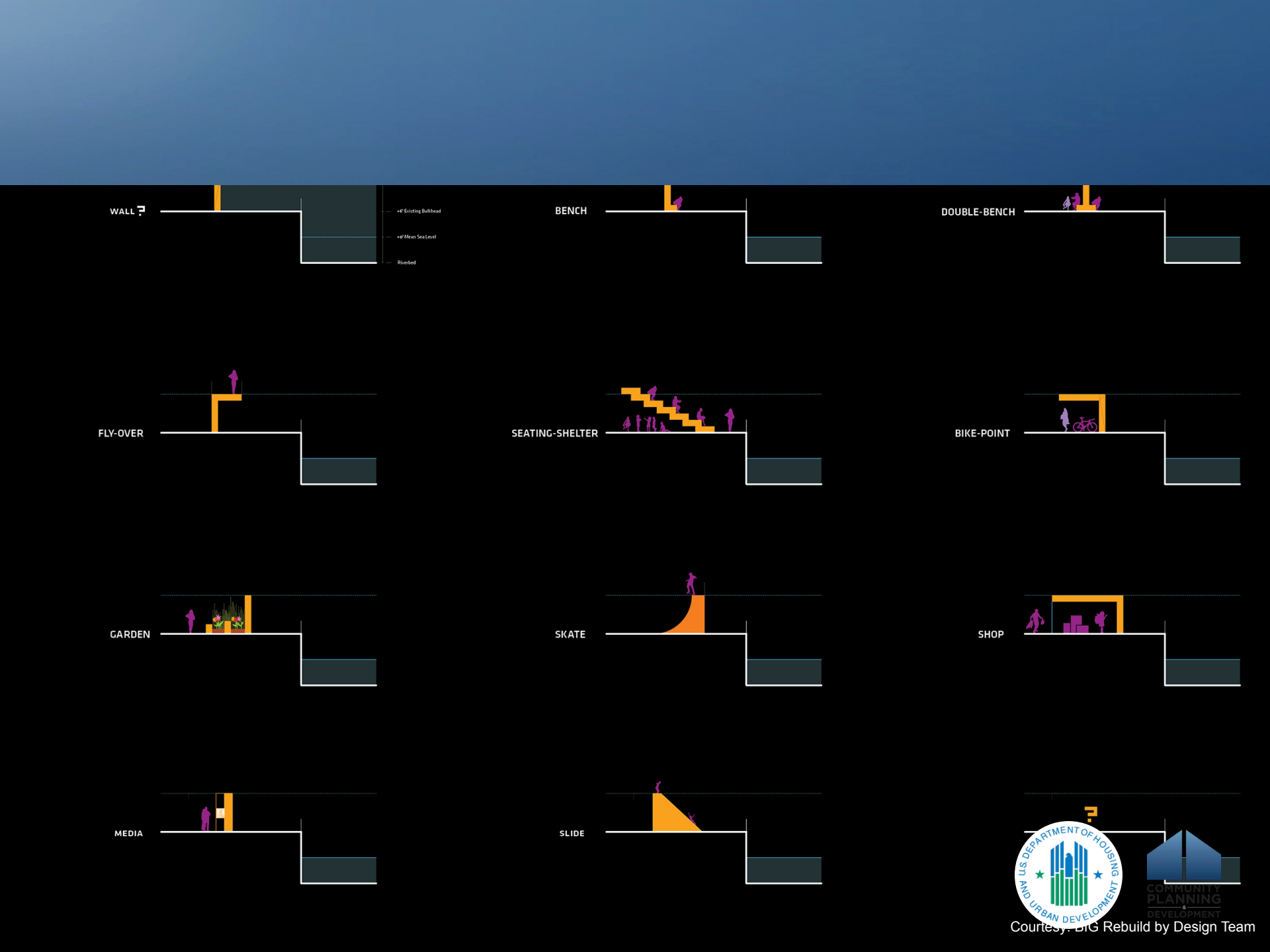


Constructed ecology (wetlands, reef ecosystem, etc)

Stacking or combination of program at waters edge

Accessable sloping and or terracing of water edge

Courtesy: OMA Rebuild by Design Team



Courtesy: BIG Rebuild by Design Team