REBUILD BY DESIGN

Promoting Resilience Post-Sandy Through Innovative Planning and Design

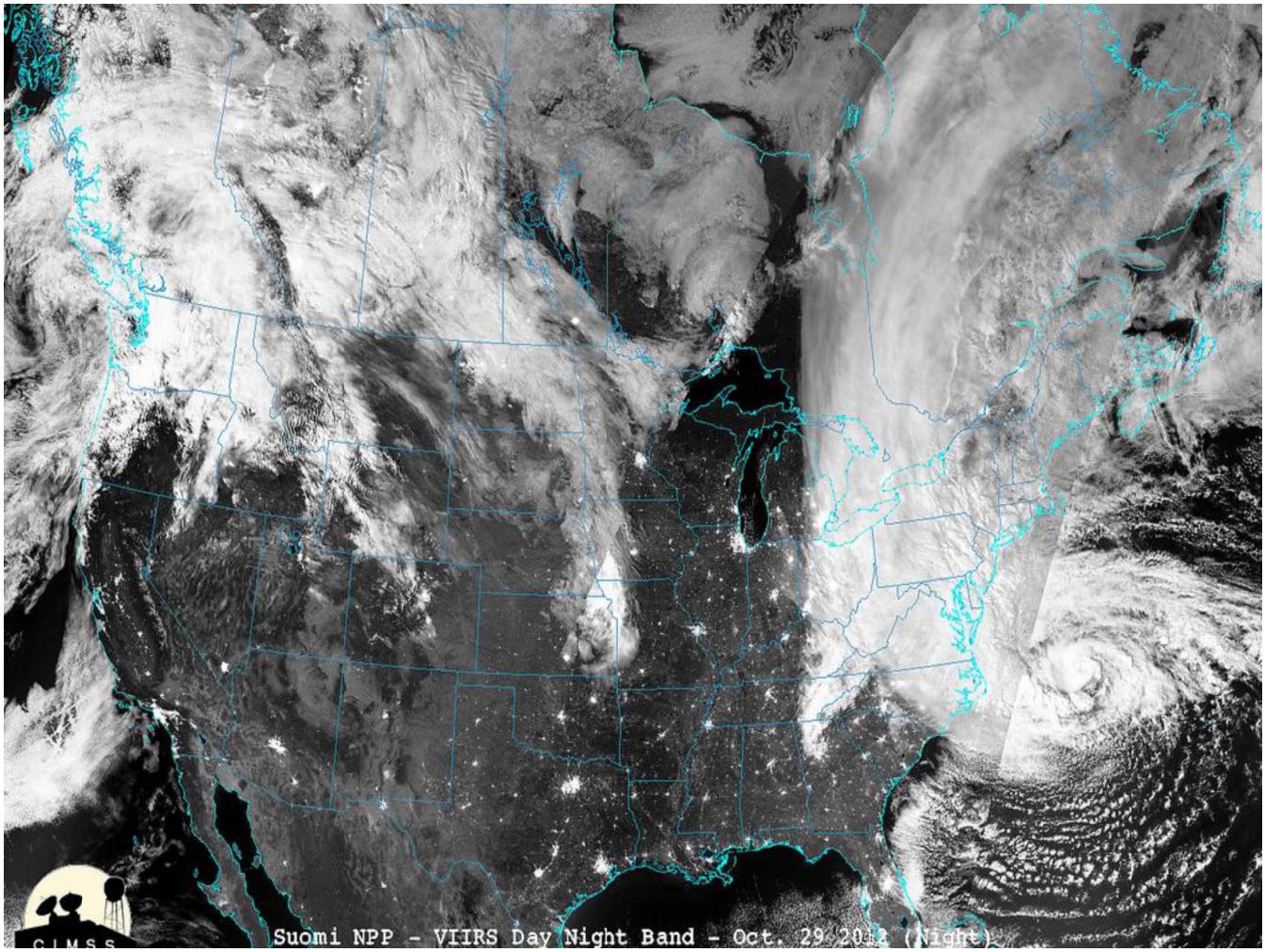
An Initiative Of The President's Hurricane Sandy Rebuilding Task Force

No plan, it is about us…

In Collaboration With
Institute for Public Knowledge, NYU
Municipal Art Society
Regional Plan Association
Van Alen Institute

Lead Supporter
The Rockefeller Fundation

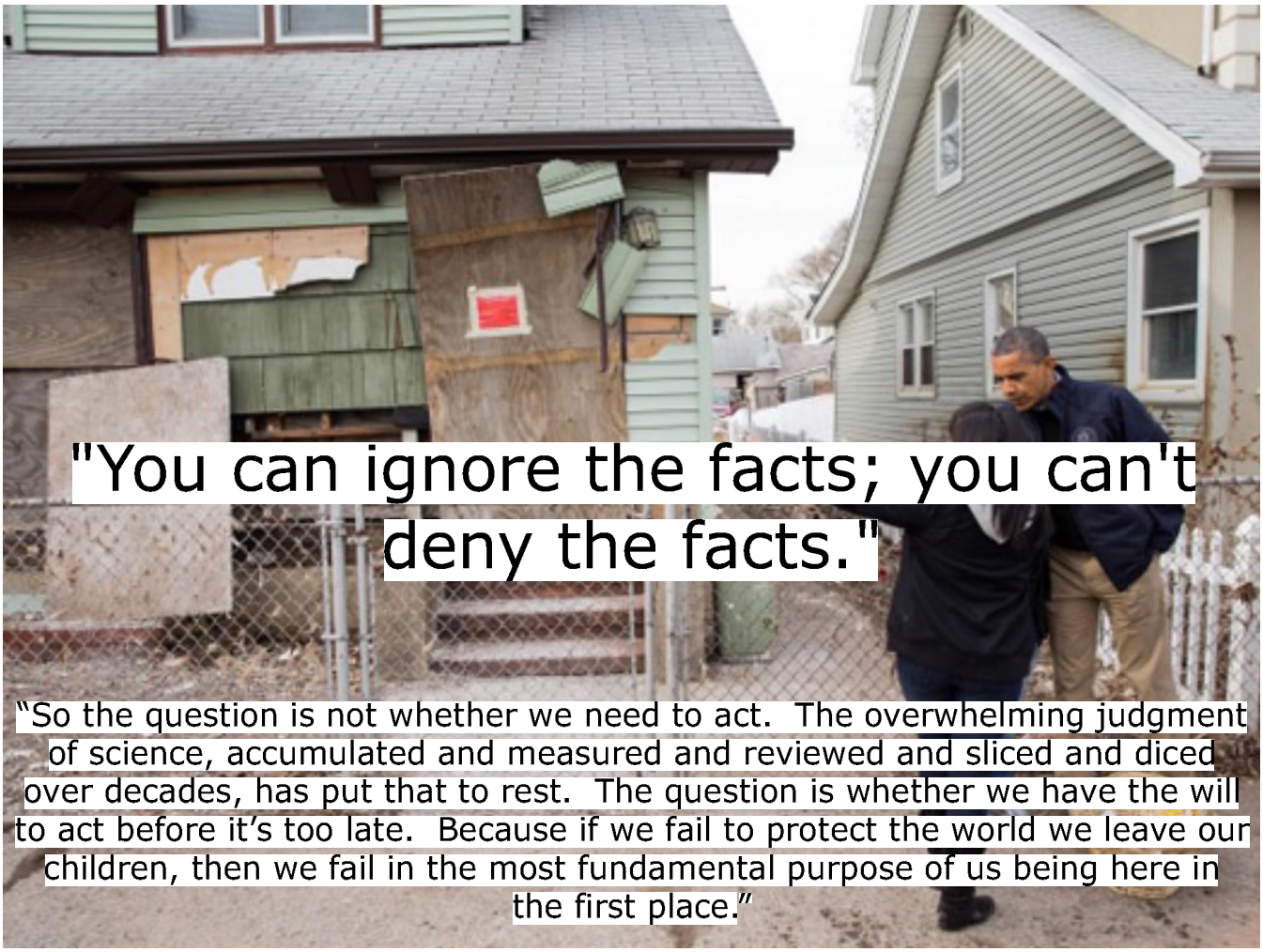
With Additional Support From
Deutsche Bank Americas Foundation
The JPB Foundation
The New Jersey Recovery Fund



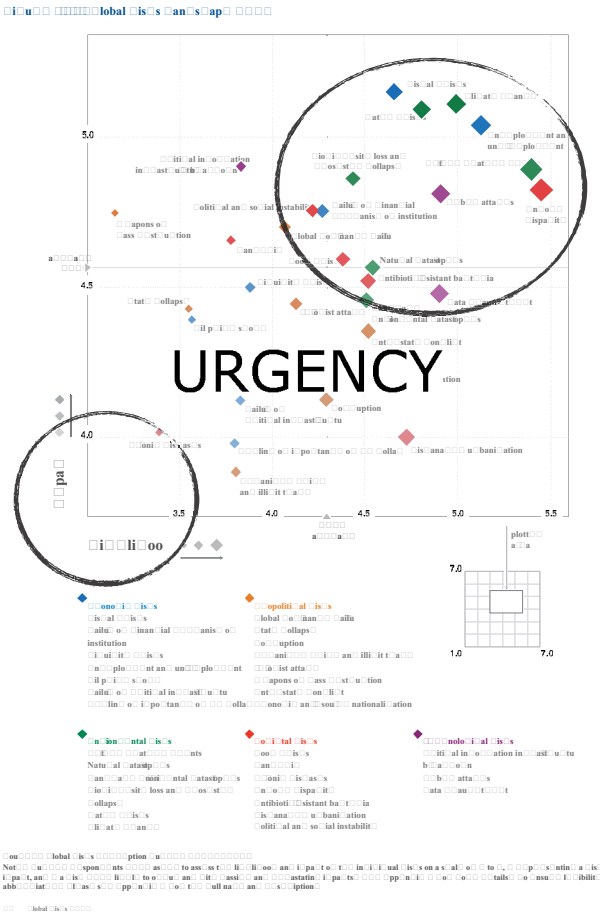
Climate Change

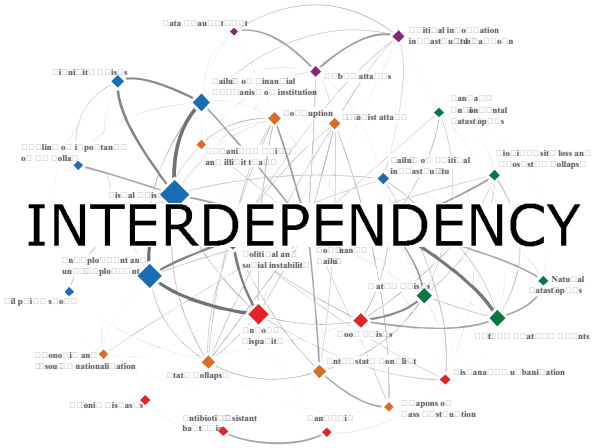
"Climate change is the worst kind of problem for the human brain to cope with — something that is too slow moving to give us the rush of adrenaline that signals 'emergency', something that is so diffuse in its causes that it requires collective action at a scale that humanity has never managed. We all put it out of our minds most of the time. We all live life as normally as we can under the shadow of an increasingly uncertain 'long run'."

Gabriel Metcalf



- climate change
- water crises
- biodiversity loss and ecosystem collapse
- extreme weather events
- natural catastrophes
- man made environmental catastrophes





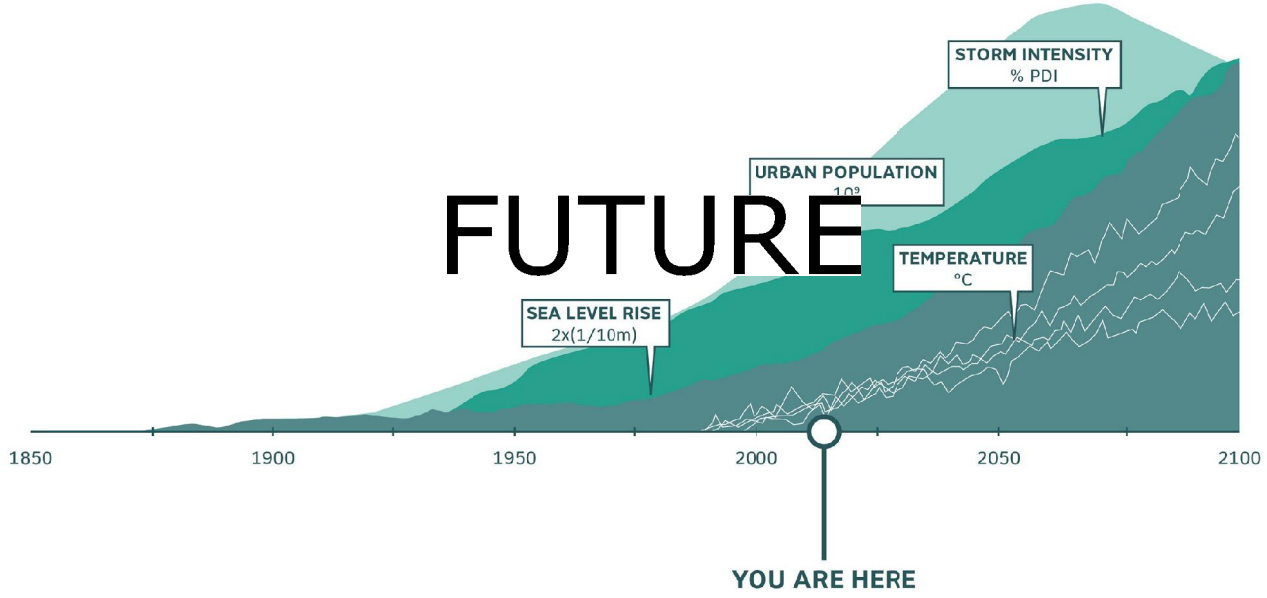
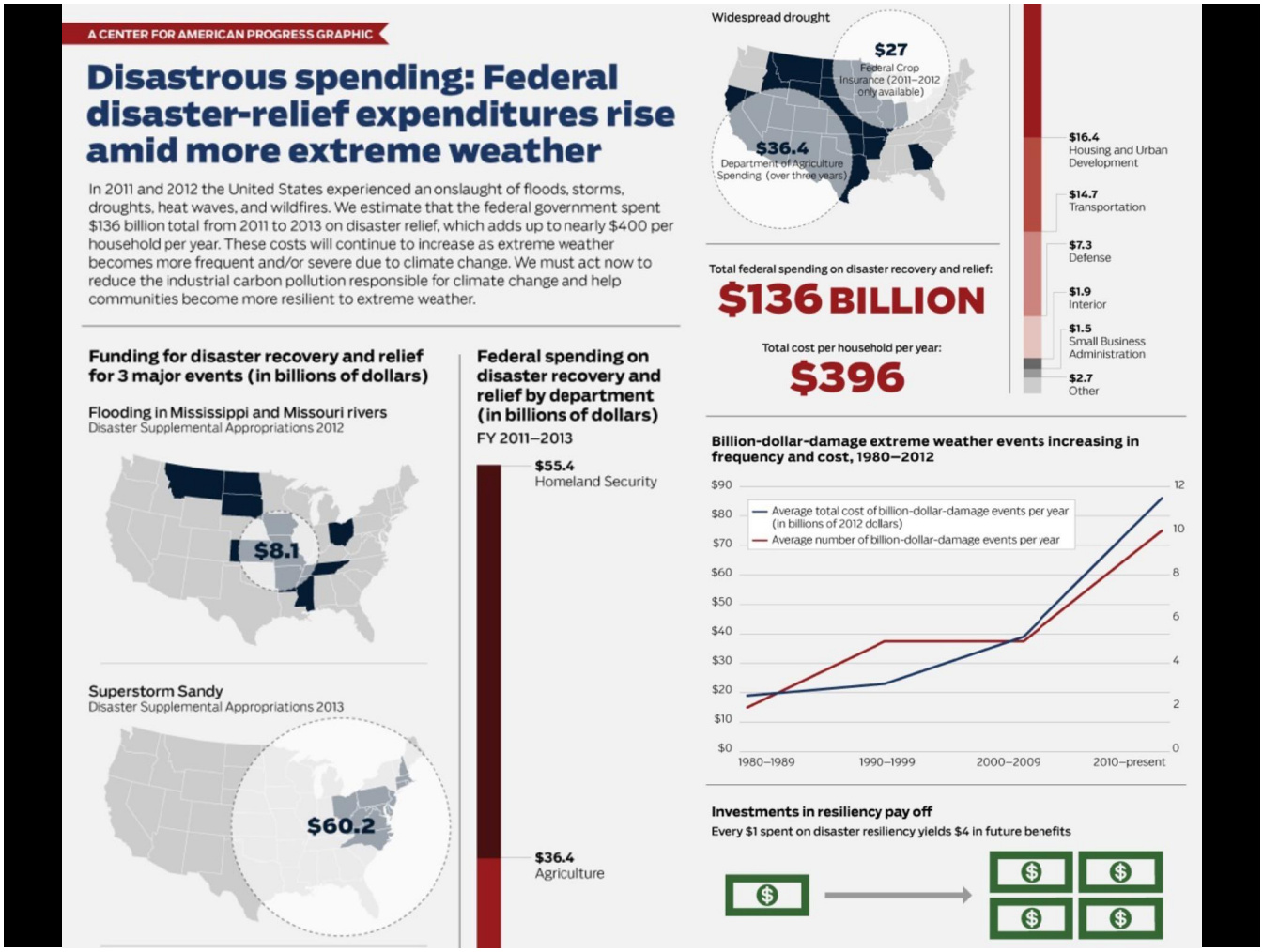


IMAGE: SCAPE/LANDSCAPE ARCHITECTURE



Sandy proved that rebuilding copy-paste is no option

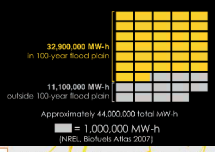
... AND MEET, INTERACT AND CAN BE MITIGATED ON THE REGIONAL SCALE

POWER SUPPLY

63 Power generation stations are in the immediate New York City/Northern New Jersey area

27 of these are located WITHIN the 100-year flood plain

75% of the total net annual generation (MW-h) from these 63 stations comes from these 27



CRITICAL NODES ON THE GRID

1 IN 4 Electric substations are located in the flood plain

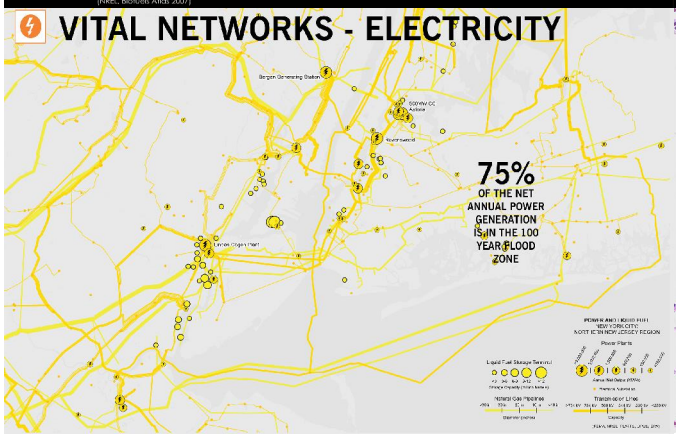
LIQUID FUEL STORAGE

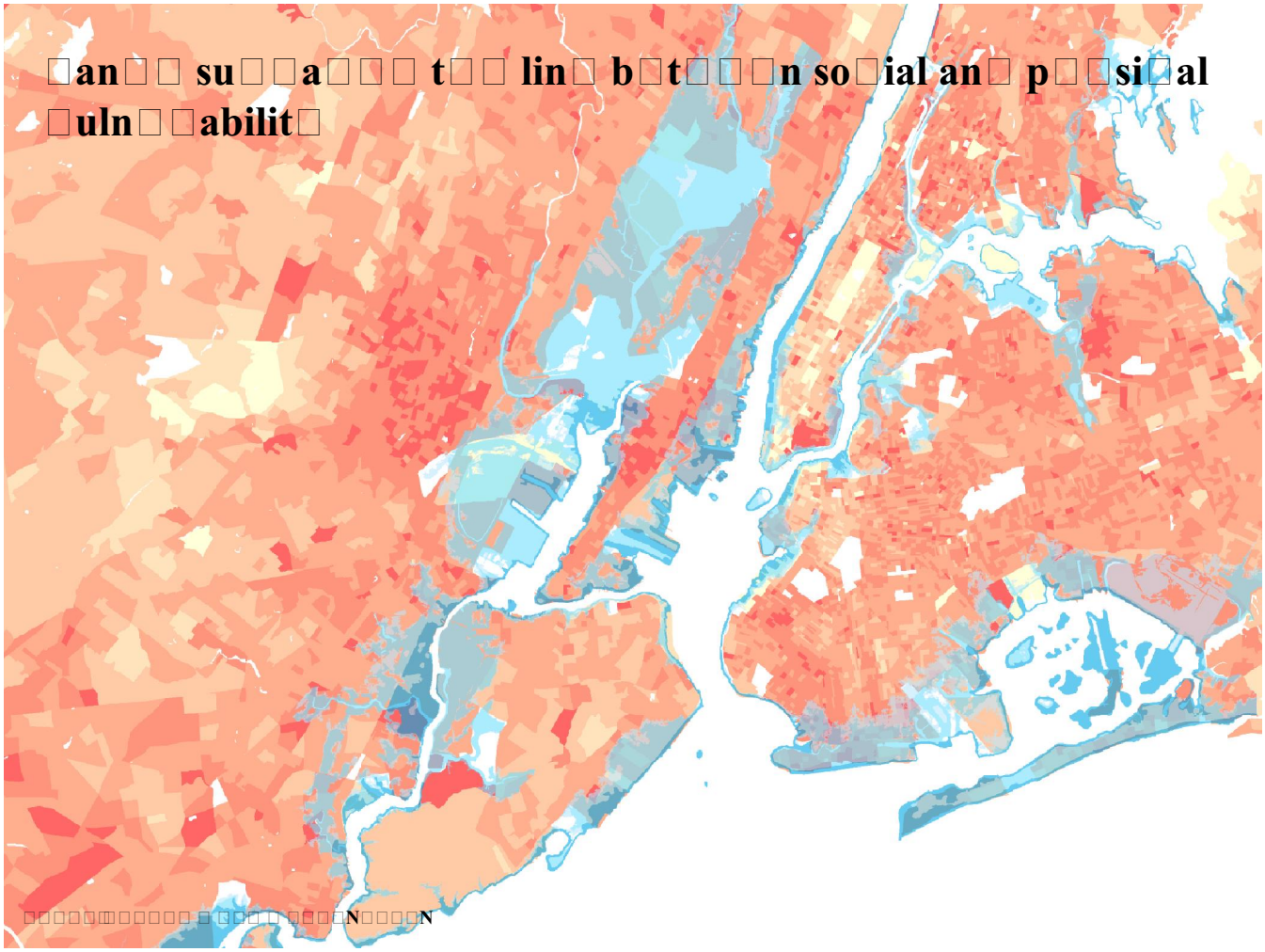
52 Liquid Fuel Storage Terminals are in the New York/ New Jersey area

39 are located WITHIN the flood plain

and they contain roughly **80%** of the total area fuel

The **REMAINDER** is *directly* adjacent to the flood plain

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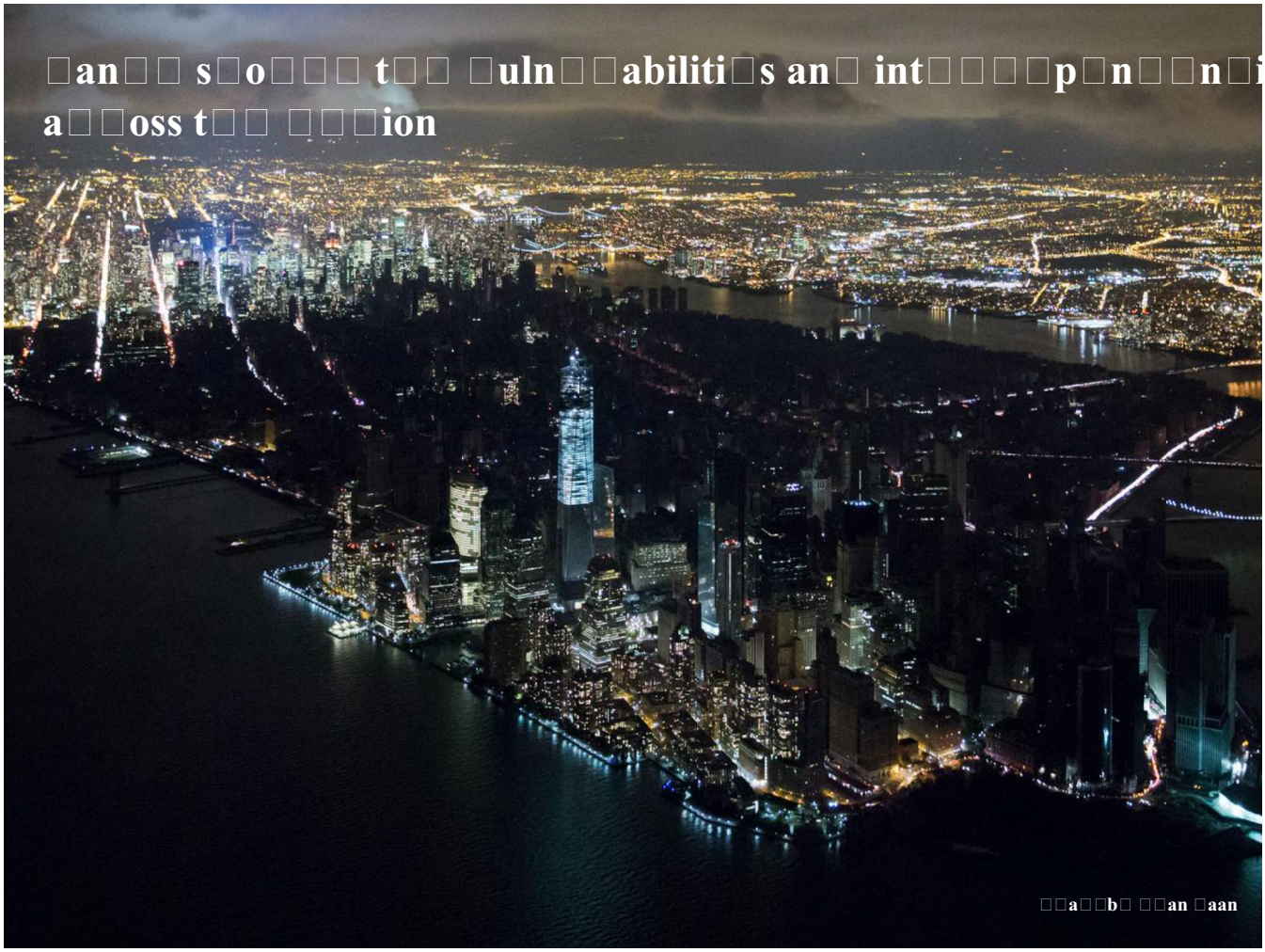
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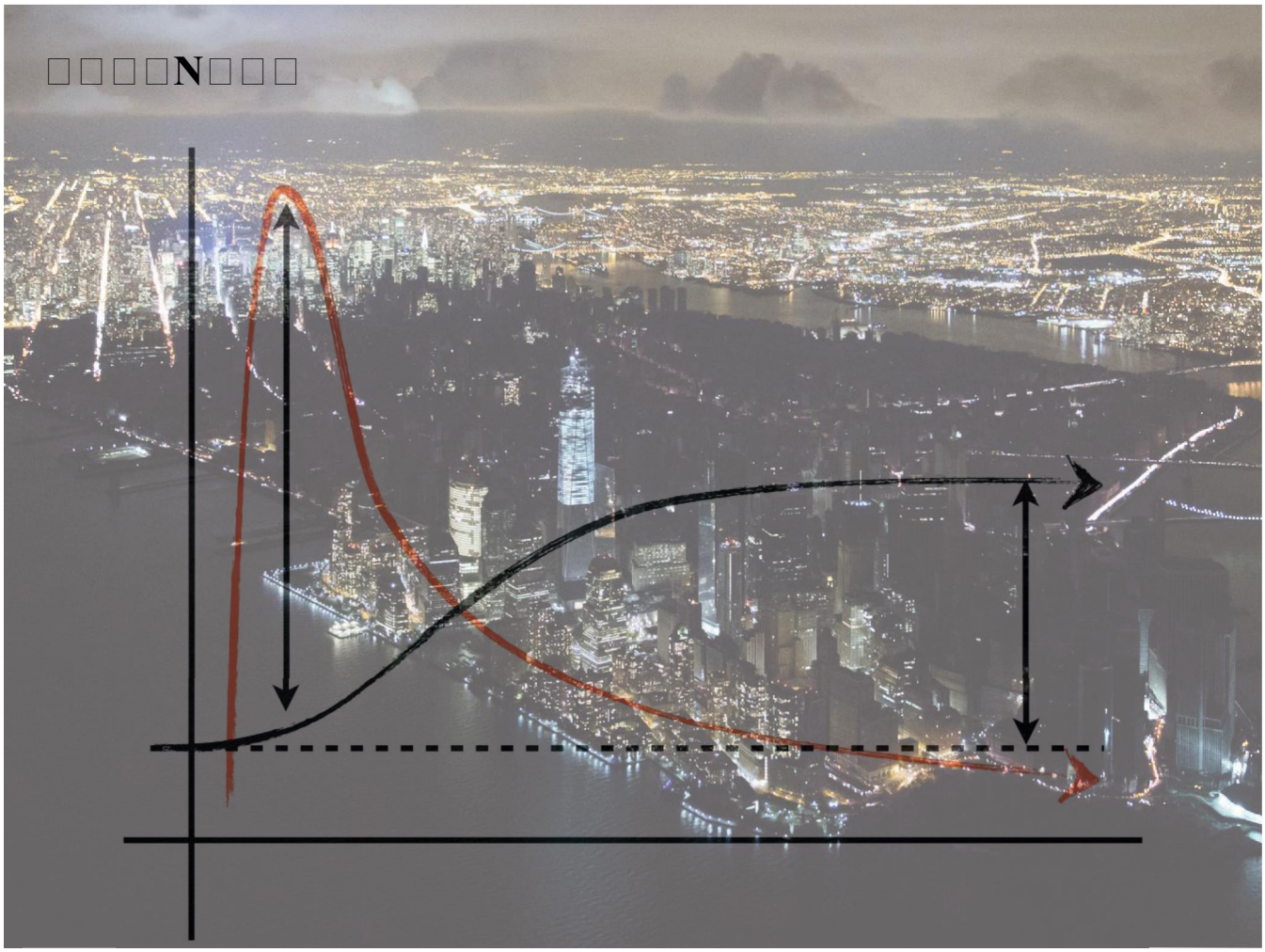
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TASK FORCE

HOLLAND - culture of living with water

Trade, negotiations and crafts
Stubbornness, luck and faith

Managing risks and uncertainties.

The Netherlands is made out of water

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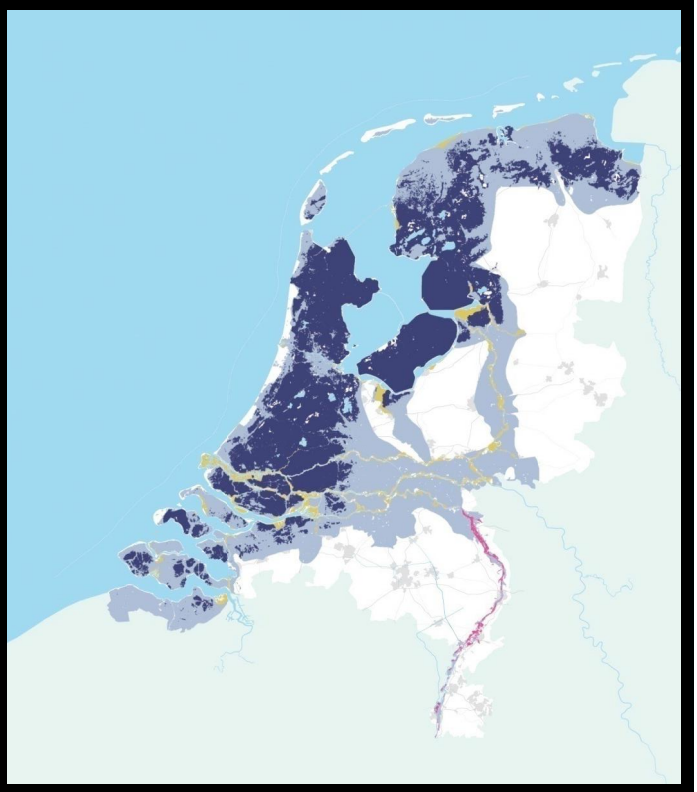
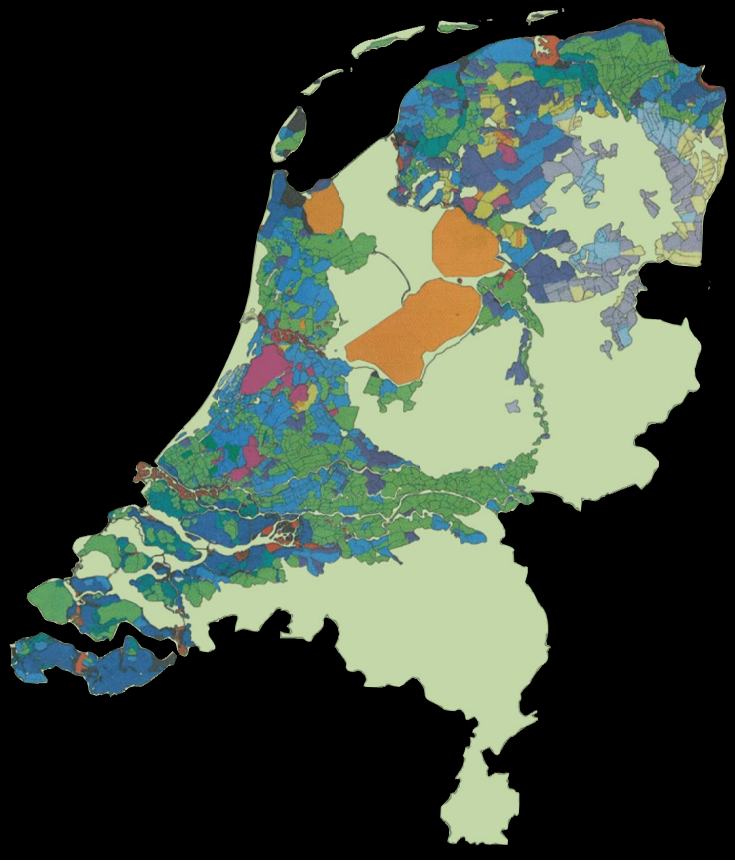


MAKING LAND: 3500+ DUTCH POLDERS



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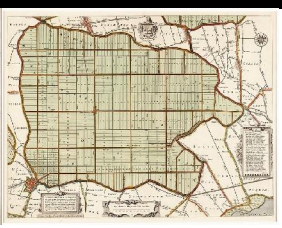

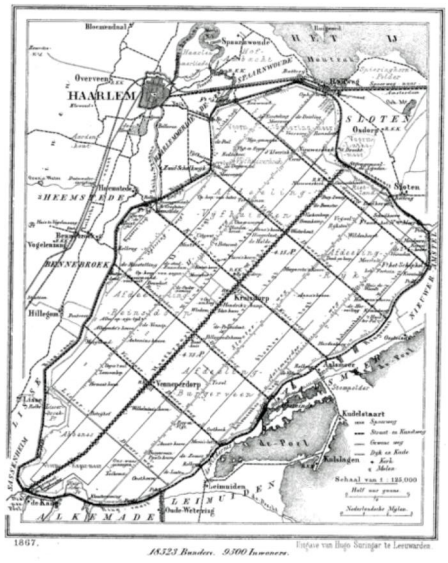
HAARLEM
Overveen
Bloemendaal
Spaarnwoude
HET IJ
Haarlem
SLOTEN
Oudeschoot
Sloten
SHEEMS LODE
Vogelenzang
BINNENBROEK
Hillegom
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1222 - the first collaboration started in the Utrecht area, where 20 communities worked together on the local embankment

1953

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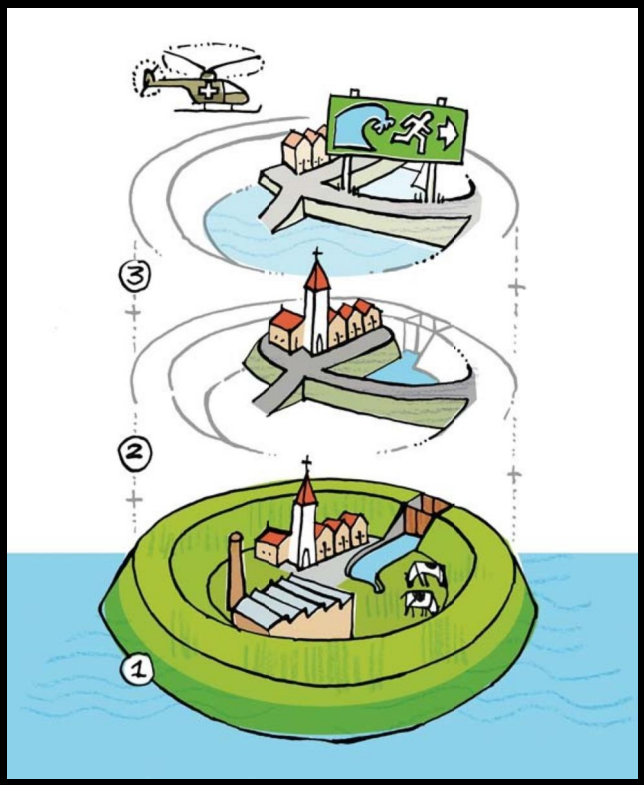

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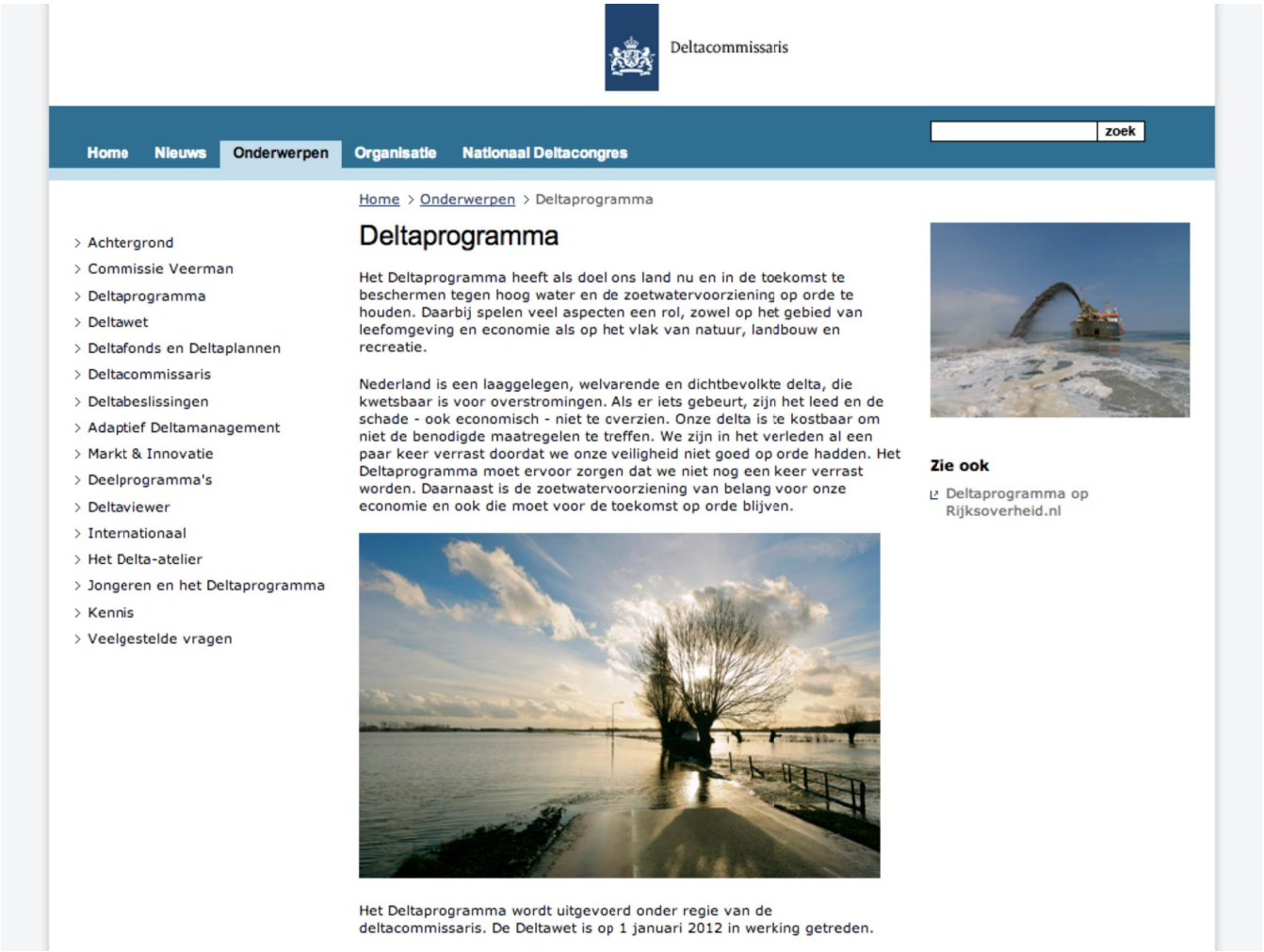

Deltacommissaris

Home | Nieuws | Onderwerpen | Organisatie | Nationaal Deltacongres

zoek

Home > Onderwerpen > Deltaprogramma

- Achtergrond
- Commissie Veerman
- Deltaprogramma
- Deltawet
- Deltafonds en Deltaplannen
- Deltacommissaris
- Deltabeslissingen
- Adaptief Deltamanagement
- Markt & Innovatie
- Deelprogramma's
- Deltaviewer
- Internationaal
- Het Delta-atelier
- Jongeren en het Deltaprogramma
- Kennis
- Veelgestelde vragen

Deltaprogramma

Het Deltaprogramma heeft als doel ons land nu en in de toekomst te beschermen tegen hoog water en de zoetwatervoorziening op orde te houden. Daarbij spelen veel aspecten een rol, zowel op het gebied van leefomgeving en economie als op het vlak van natuur, landbouw en recreatie.

Nederland is een laaggelegen, welvarende en dichtbevolkte delta, die kwetsbaar is voor overstromingen. Als er iets gebeurt, zijn het leed en de schade - ook economisch - niet te overzien. Onze delta is te kostbaar om niet de benodigde maatregelen te treffen. We zijn in het verleden al een paar keer verrast doordat we onze veiligheid niet goed op orde hadden. Het Deltaprogramma moet ervoor zorgen dat we niet nog een keer verrast worden. Daarnaast is de zoetwatervoorziening van belang voor onze economie en ook die moet voor de toekomst op orde blijven.

Het Deltaprogramma wordt uitgevoerd onder regie van de deltacommissaris. De Deltawet is op 1 januari 2012 in werking getreden.

Zie ook

- Deltaprogramma op Rijksoverheid.nl

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REGIONAL APPROACH / LOCAL ACTIVISM

PHYSICAL RESILIENCE

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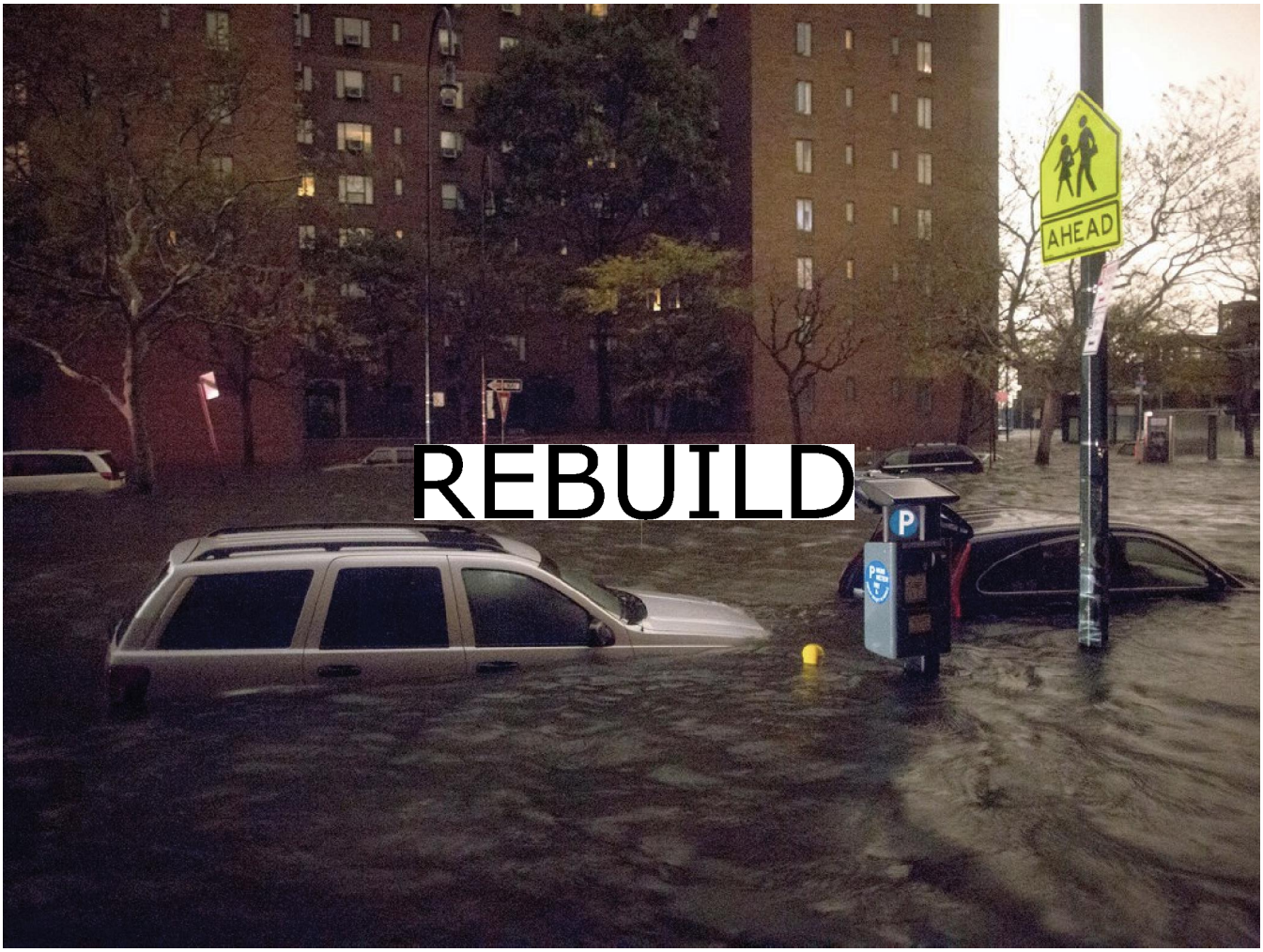
AHEAD
REBUILD

TIME TO THINK

INVEST IN THINKING

THE PRESIDENT'S CLIMATE ACTION PLAN

Executive Office of the President

June 2013

THE WHITE HOUSE
WASHINGTON

Hurricane Sandy
Rebuilding Task Force

HURRICANE SANDY ***REBUILDING STRATEGY***

Stronger Communities, A Resilient Region

August 2013

INVEST IN THINKING

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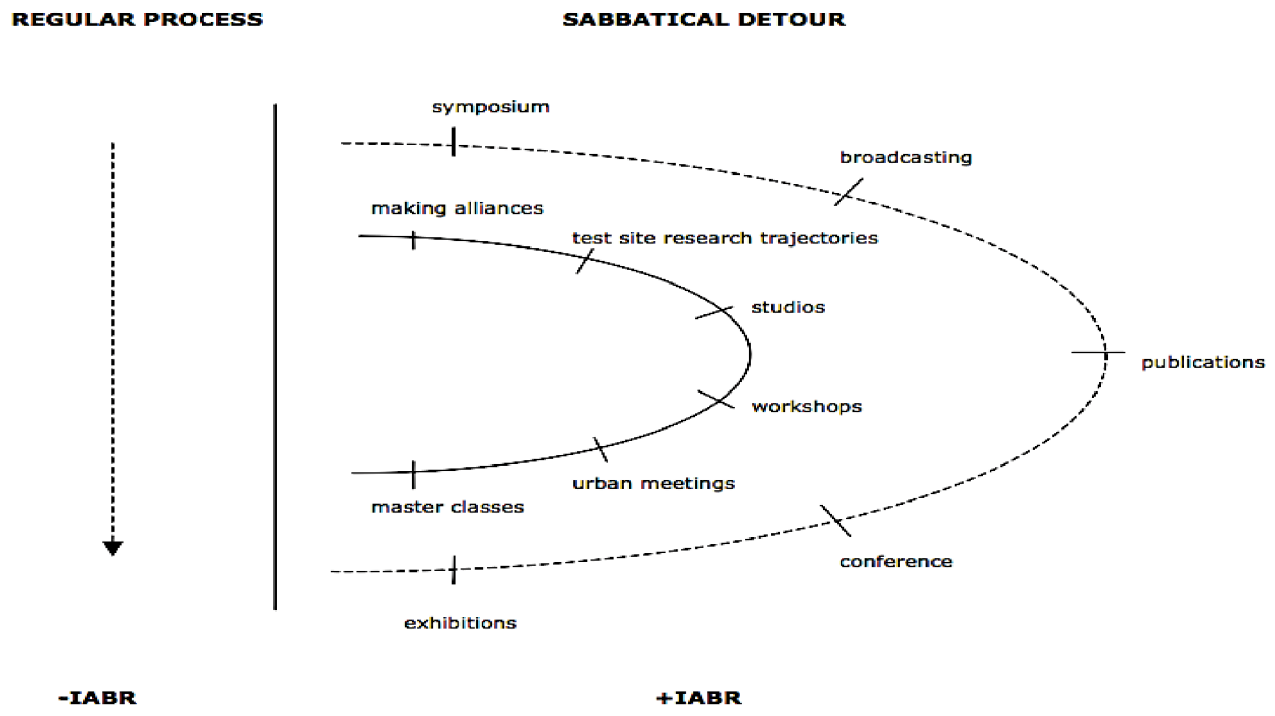

ALLIANCES

By definition an alliance is formed by parties with common interests who are making everyone focus on implementing the common. They initially tend to minimize their differences in the alliance.

REBUILD BY DESIGN

Promoting Resilience Post-Sandy Through Innovative Planning and Design

An Initiative Of The President's Hurricane Sandy Rebuilding Task Force

What is Rebuild by Design?

Innovating Together to Create a Resilient Region

REBUILD BY DESIGN

...one of CNN's 10 Best Ideas of 2013

Process, Talent, Funding

BIG Team
HR&A Advisors / Cooper Robertson Partners
Interboro Team
MIT+ZUS+Urbanisten
OMA Team
PennDesign/Olin
Sasaki, Rutgers, Arup
Scape Team
WB Unabridged w/Yale&Arcadis
WXY/West8

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Hearst Foundation
Surdna Foundation
The JPB Foundation
The New Jersey Recovery Fund

REBUILD BY DESIGN

Hurricane Sandy exposed complex, interdependent, regional problems throughout the Northeast: infrastructural governmental, economical, ecological, and social.

Complex problems need innovative solutions. Through innovation, we are building to a new standard, both on the ground and in policy design.

PROCESS FUNDING TALENT

Compete
+ HUD
$ Federal

- 148 teams competed
- Interdisciplinary from 15 countries: architects, engineers, scientists
- 10 selected

Research
+ Insitute for Public Knowledge, NYU
+ Municipal Art Society
+ Van Alen Institute
+ Regional Plan Association
+ Research Advisory Group
$ Philanthropy

- Studied region vulnerabilities
- Met with 57 government entities
- Met 145 people from 74 organizations
- Held 7 community conversations with community members and leaders
- Toured 30 neighborhoods
- Identified 41 opportunities

Design
+ State & Local Gov
+ Community Orgs
+ Local Stakeholders
$ Philanthropy

- 10 projects selected
- Teams work with states, mayors, community stakeholders, and experts
- Proving concepts for design solutions
- Pushing innovation while reflecting local, state, and regional priorities

IMPLEMENT
+All
$ Federal
$ Other Partnerships

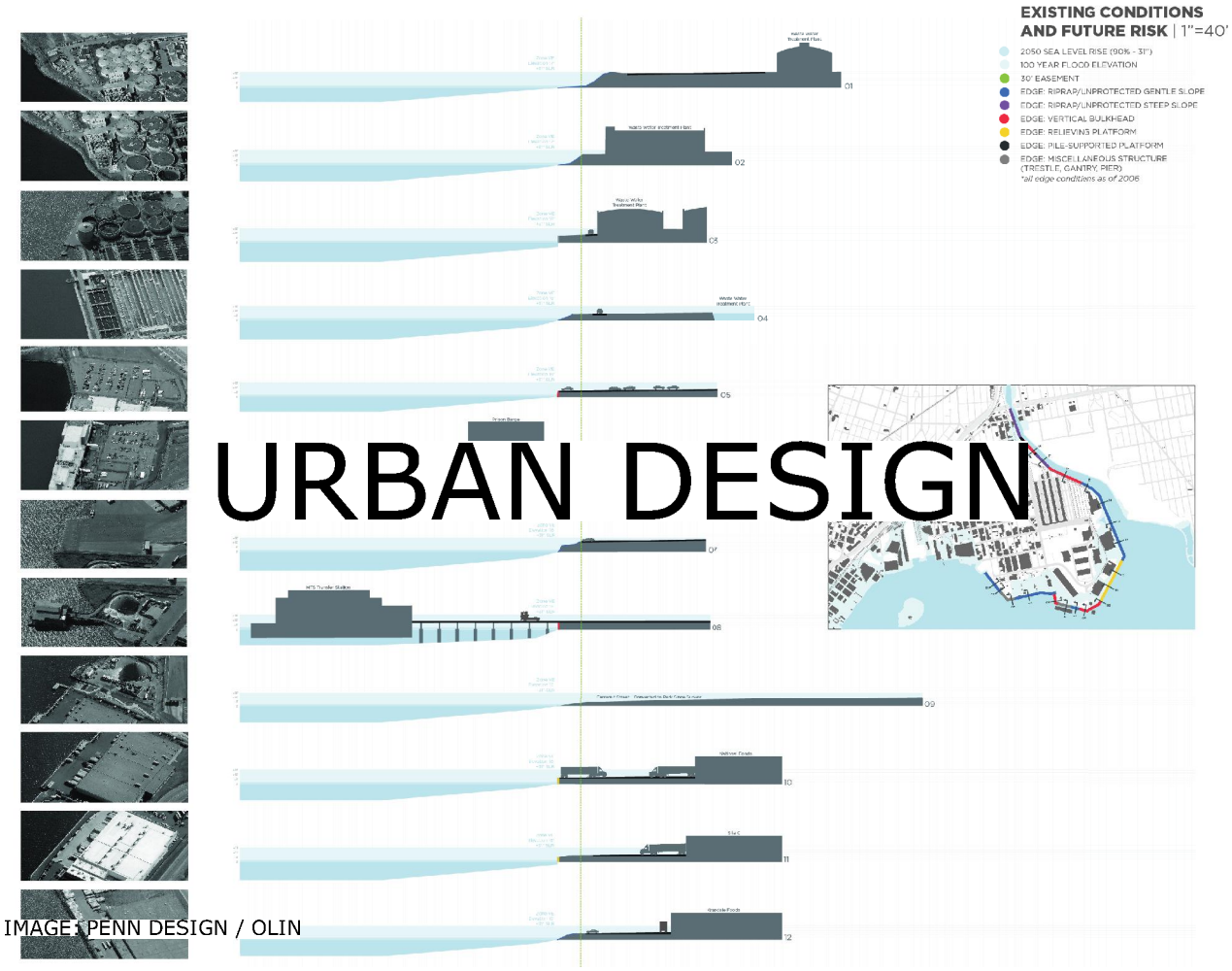
- Rebuild smarter through design
- Drive change through how we build and how we legislate

LANDSCAPE

IMAGE: SCAPE TEAM

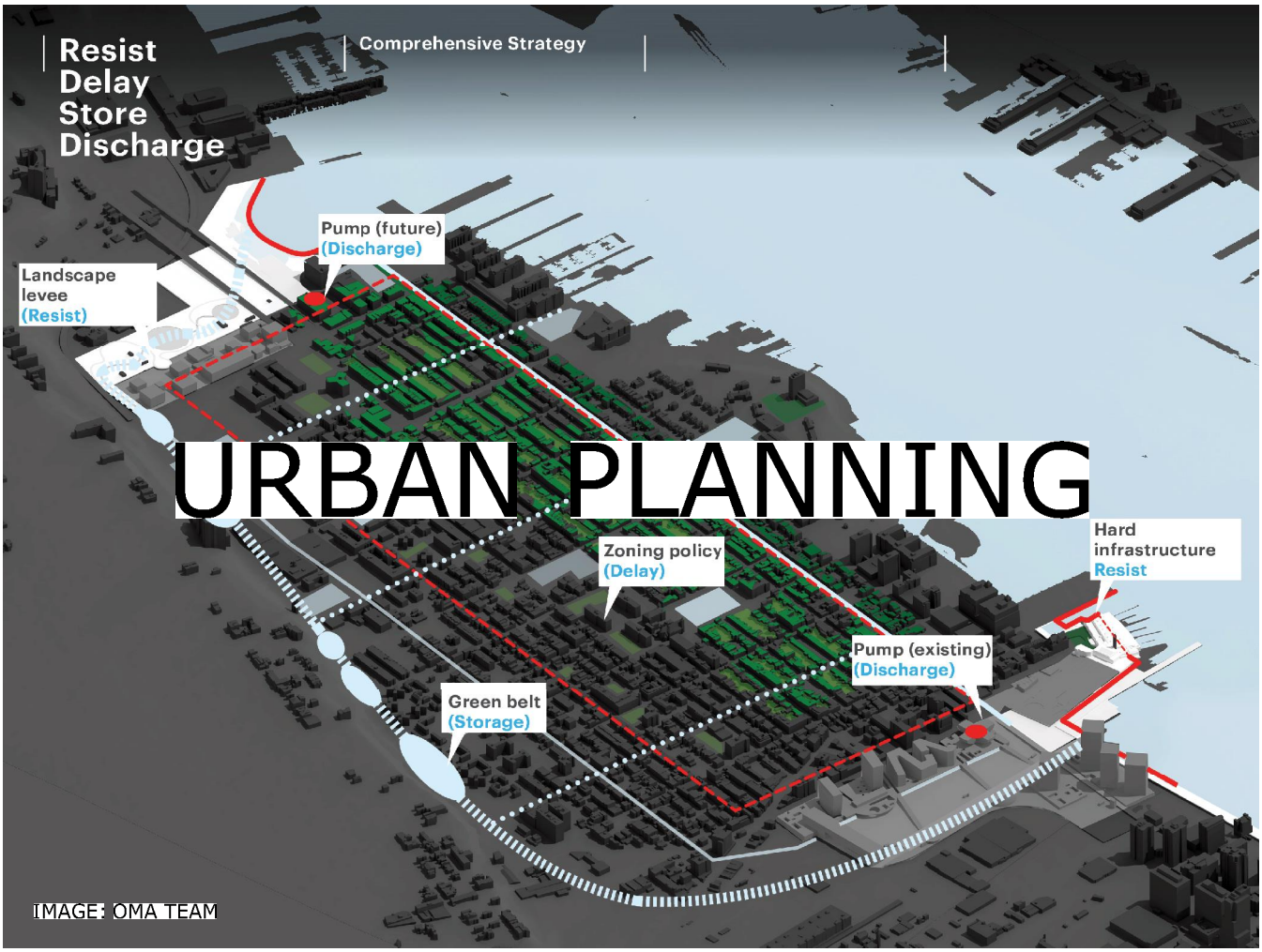
ARCHITECTURE

IMAGE: OMA TEAM



URBAN DESIGN

IMAGE: PENN DESIGN / OLIN



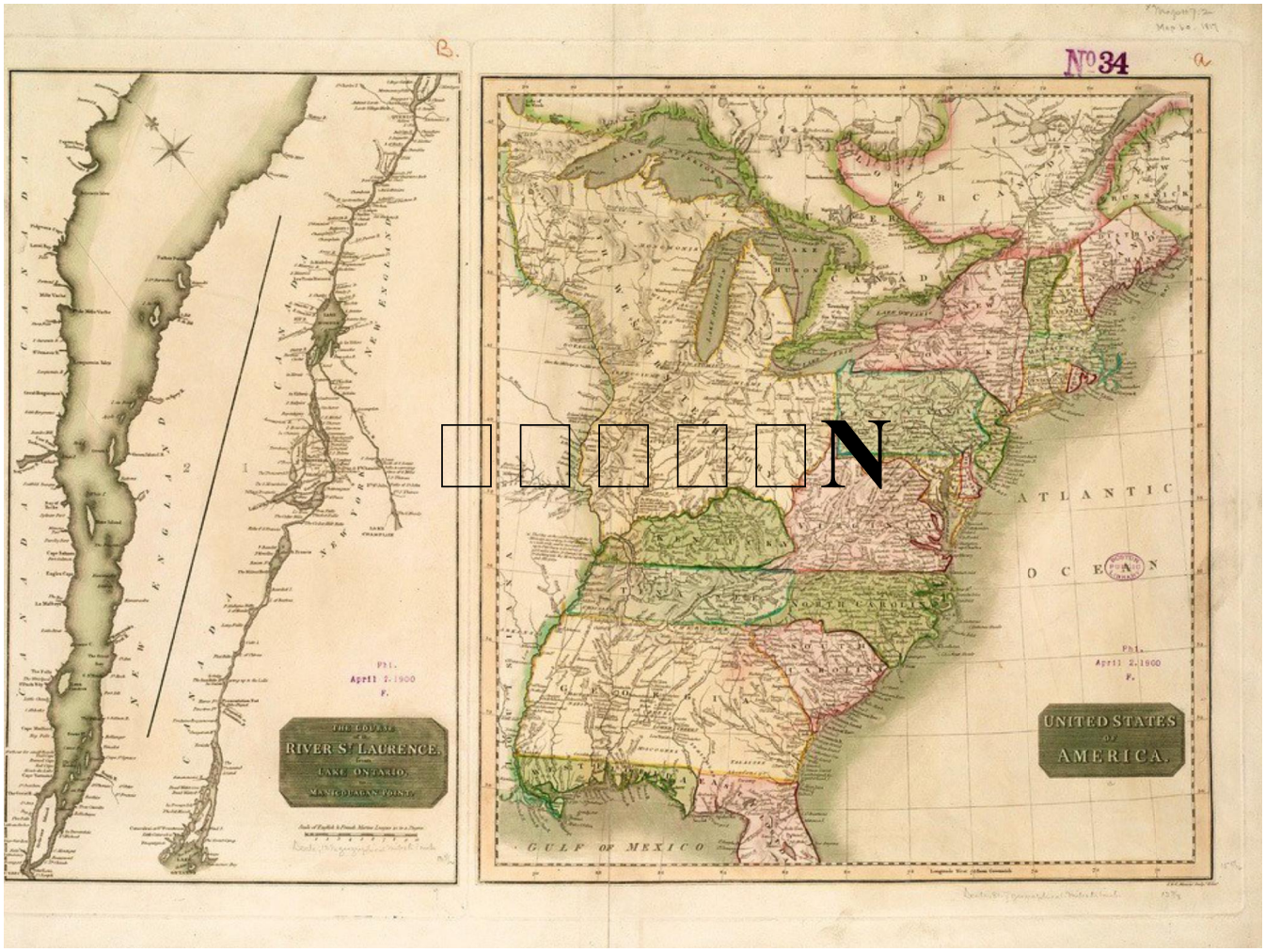
URBAN PLANNING

IMAGE: OMA TEAM

REGIONAL APPROACH

SCALES and TIME

IMAGE: BIG TEAM



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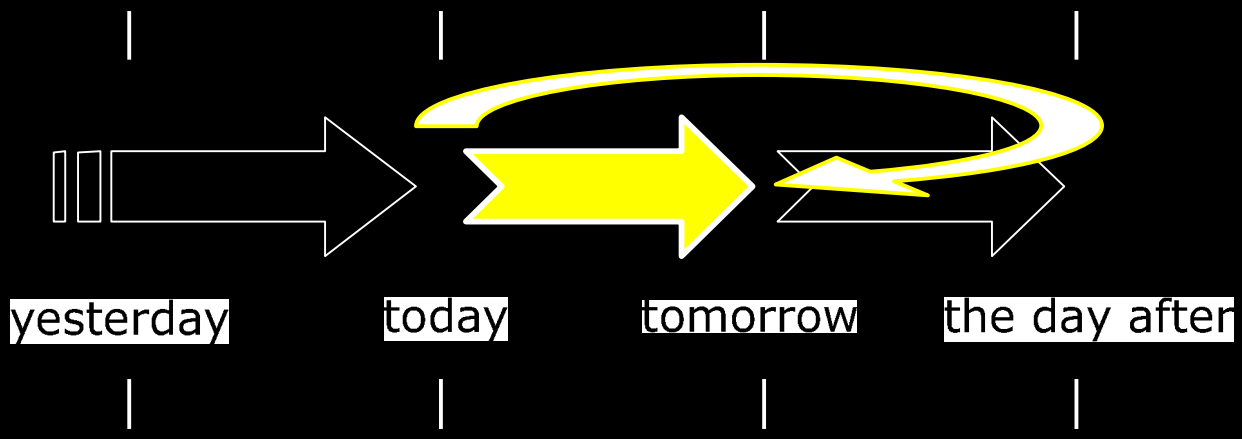
UNITED STATES
OF
AMERICA.
ATLANTIC
OCEAN
GULF OF MEXICO

NECESSITY



THE POLITICS AND

MIT + ZUS + Urbanisten

STRATEGY

IMAGE: MIT, ZUS, URBANISTEN

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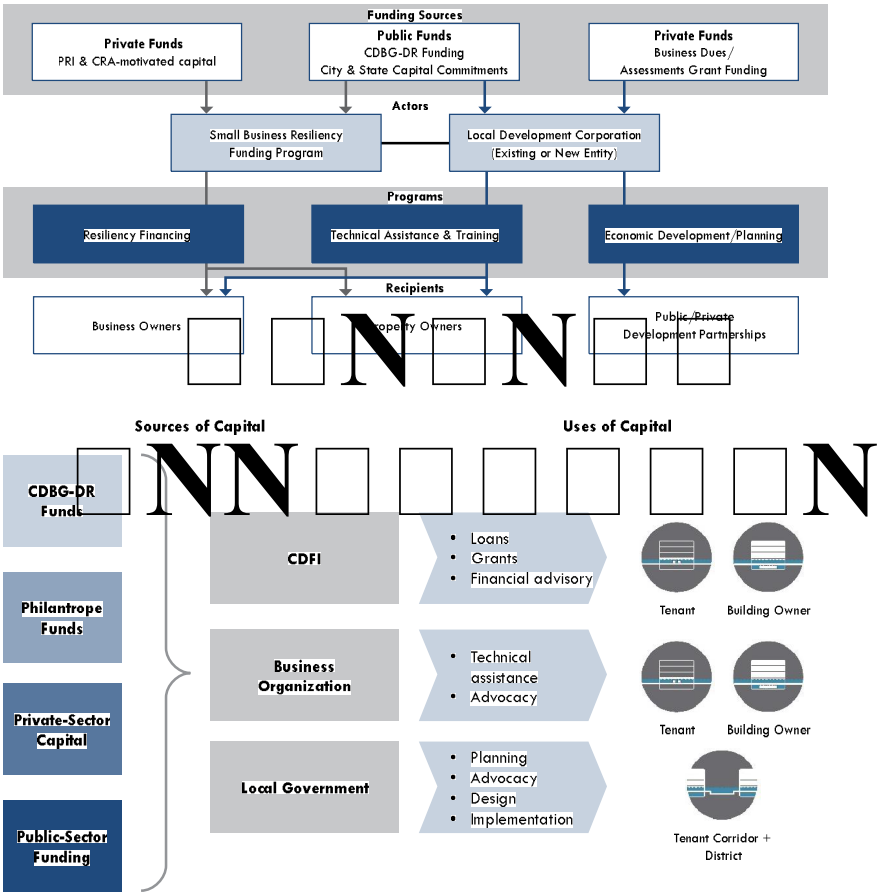

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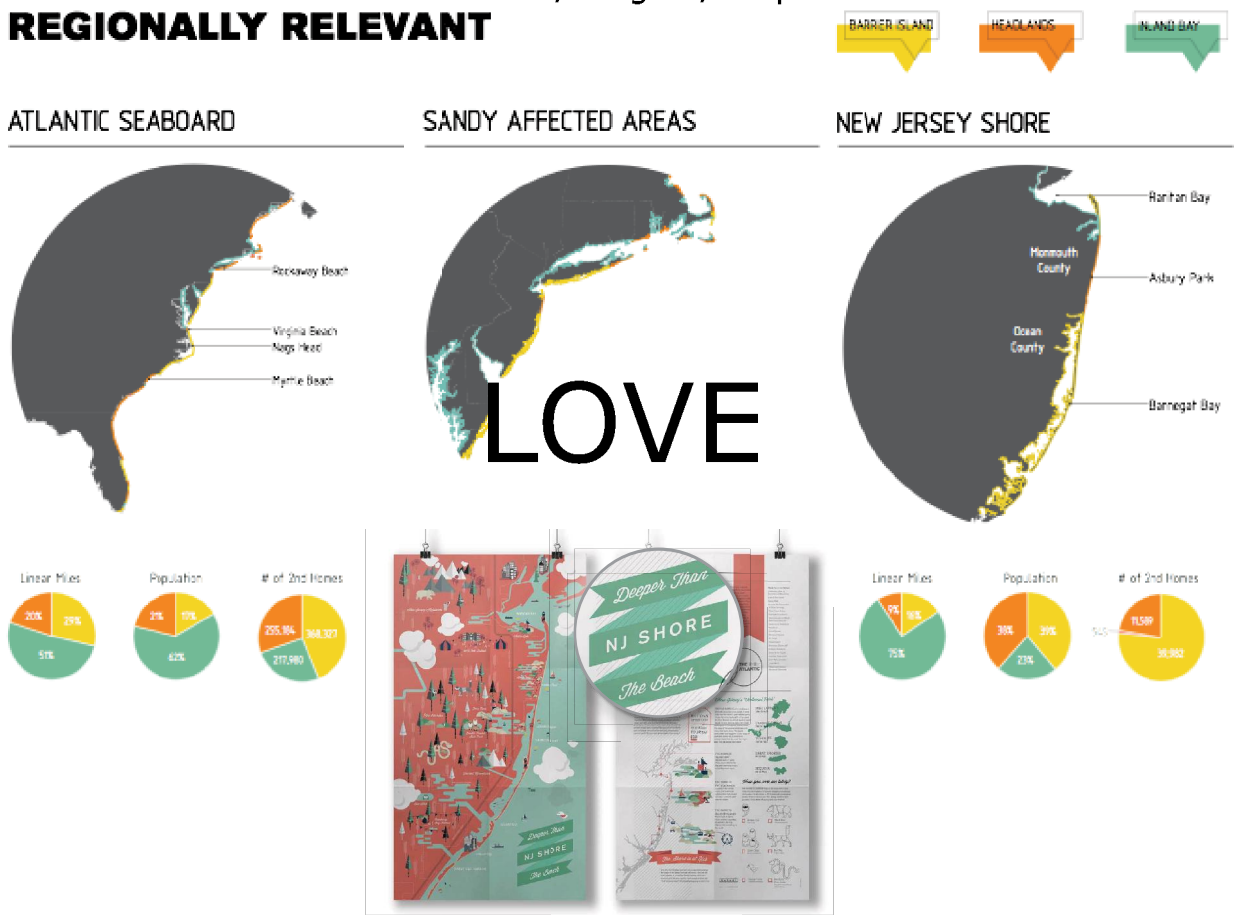
HR&A Advisors, Inc with Cooper Robertson and Partners

IMAGE: HR&A

Sasaki/Rutgers/Arup



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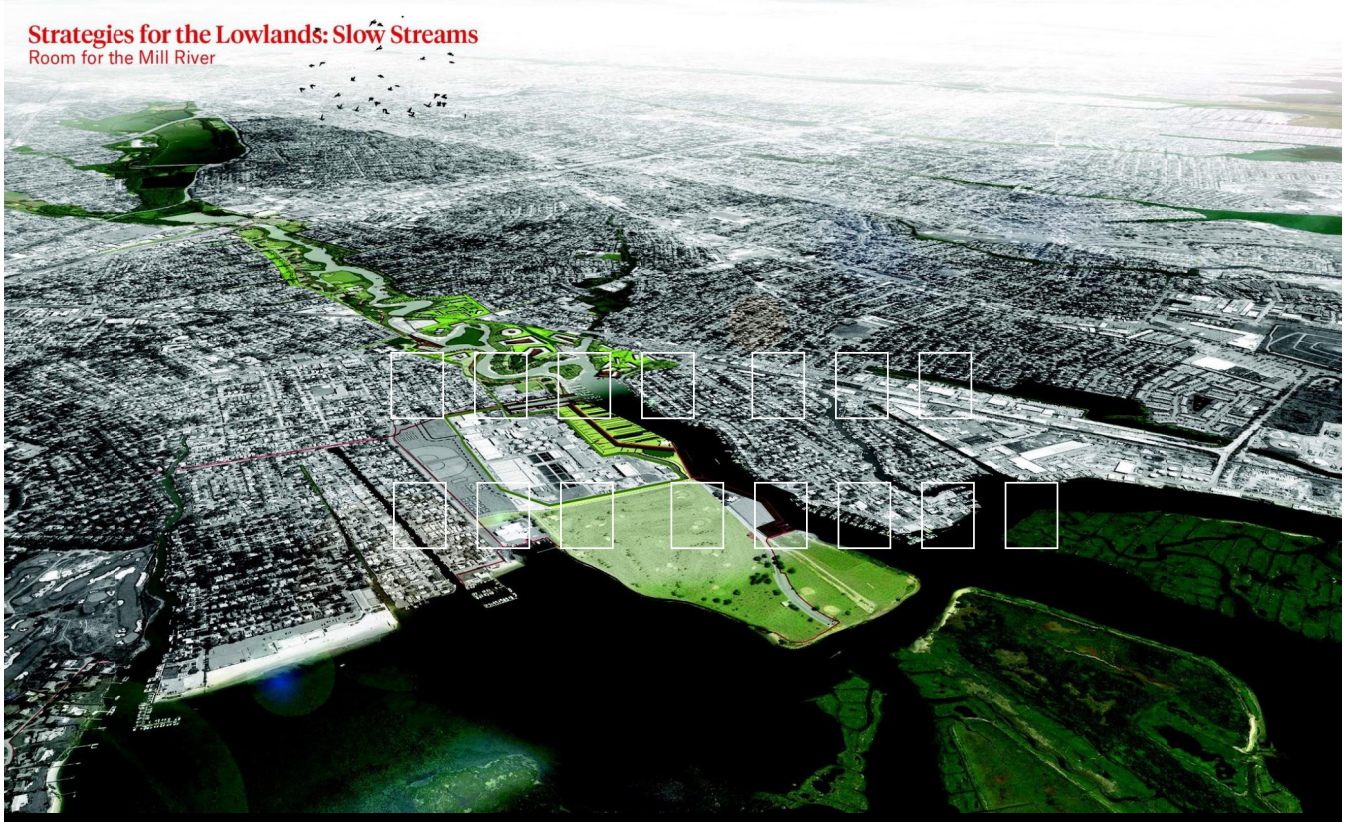

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Strategies for the Marsh: The Eco-Edge

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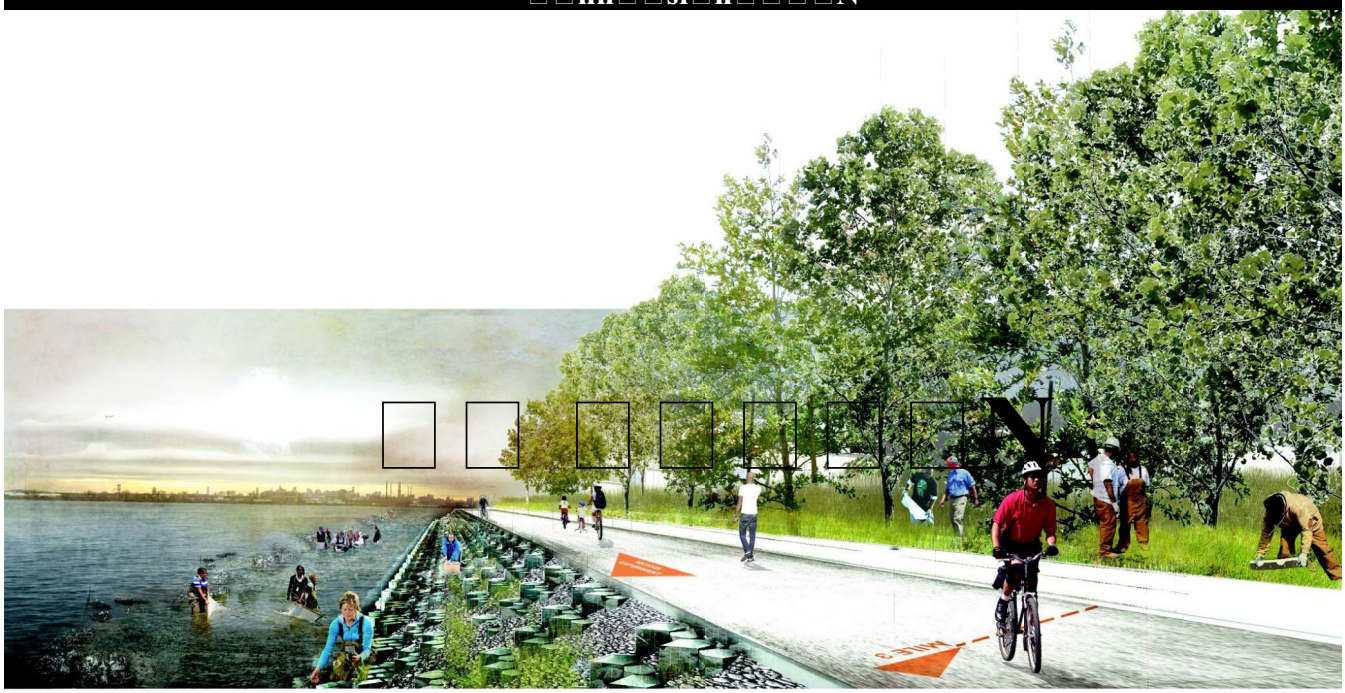

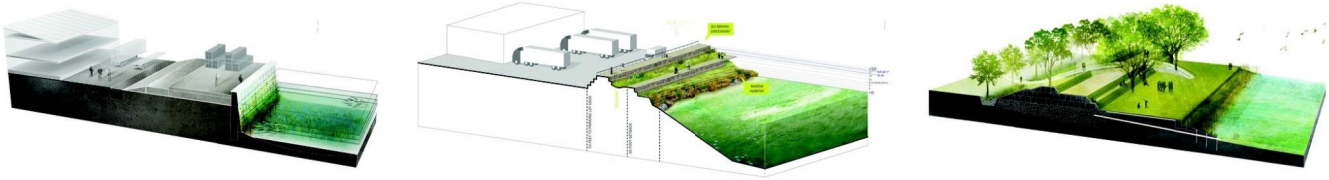

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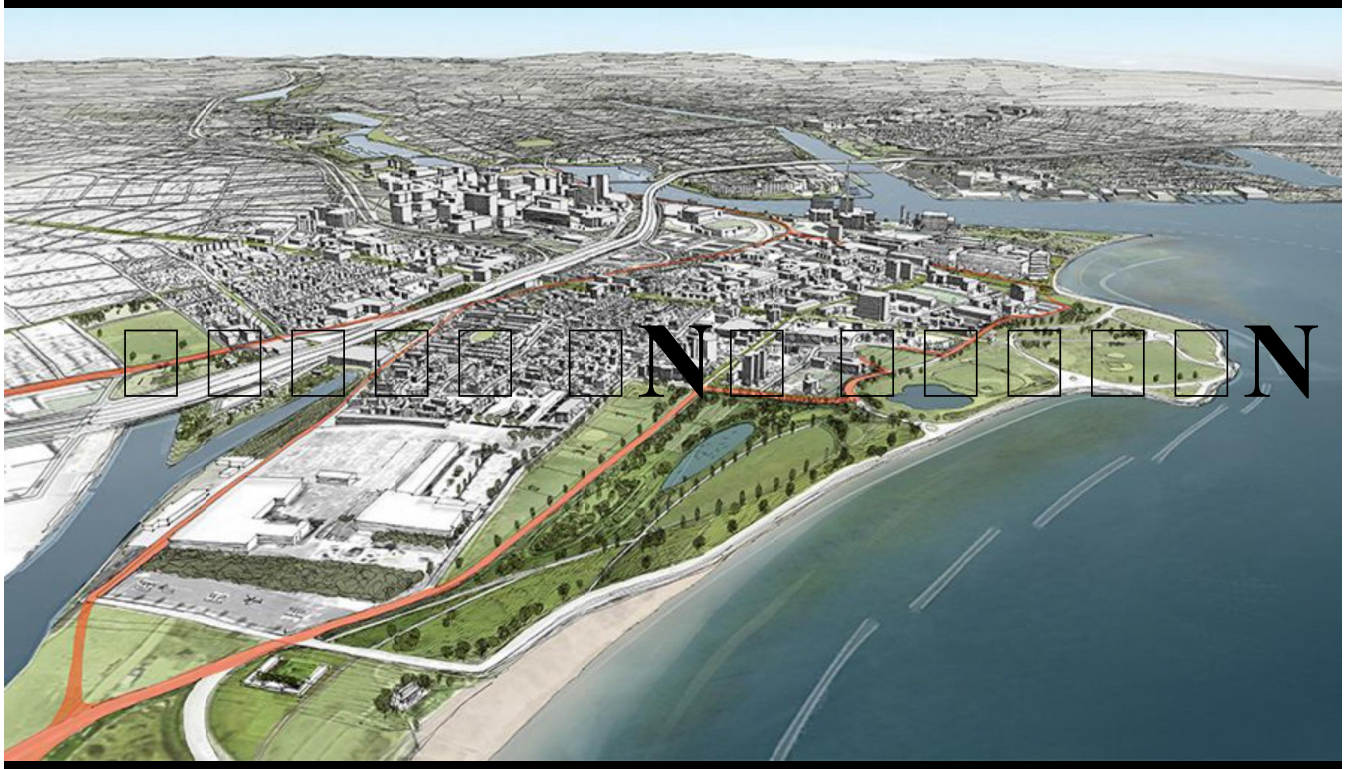
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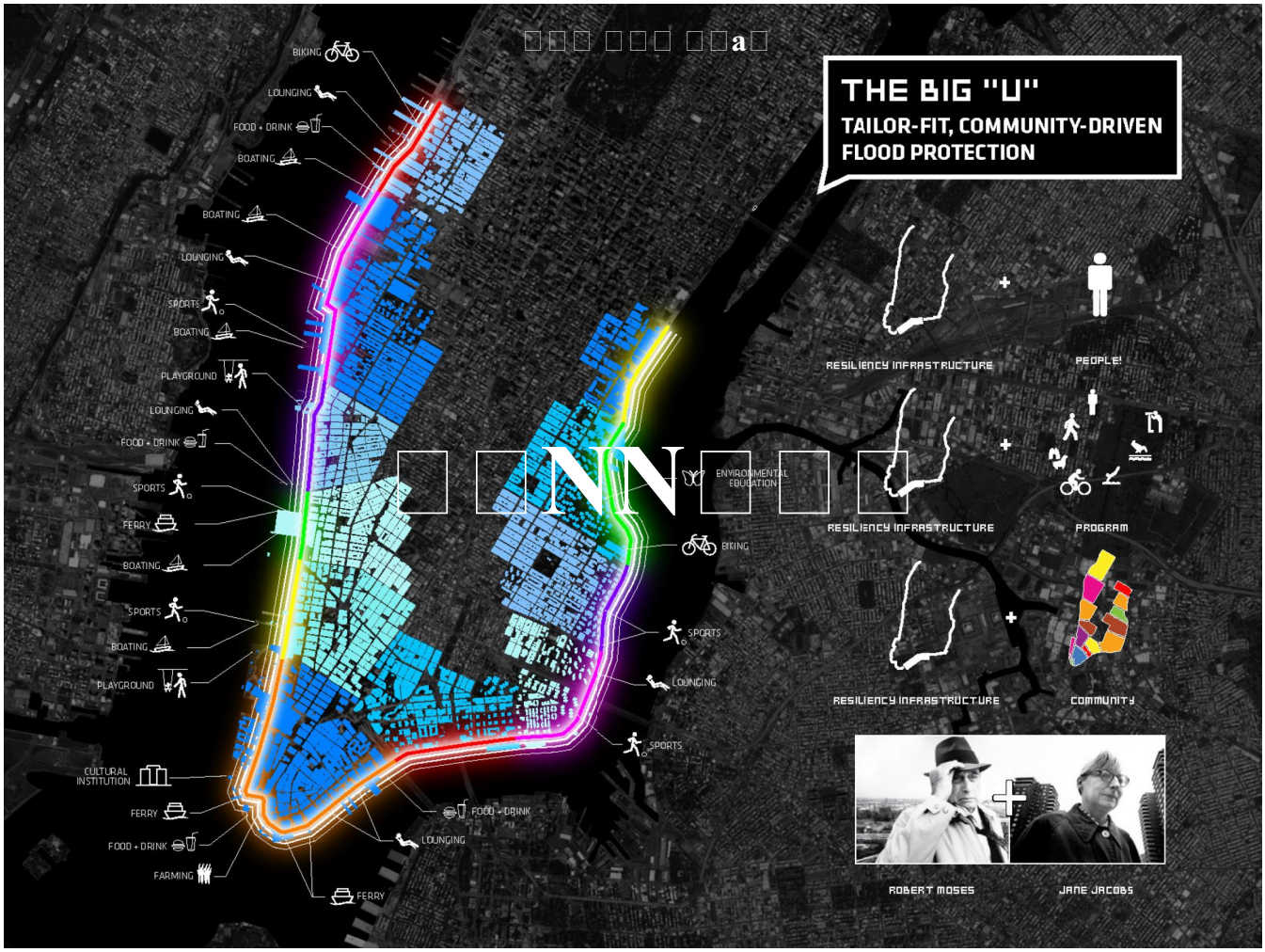
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FOOD + DRINK
BOATING
BOATING
LOUNGING
SPORTS
BOATING
PLAYGROUND
LOUNGING
FOOD + DRINK
SPORTS
FERRY
BOATING
SPORTS
BOATING
PLAYGROUND
CULTURAL INSTITUTION
FERRY
FOOD + DRINK
FARMING
FERRY
FOOD + DRINK
LOUNGING
SPORTS
LOUNGING
SPORTS
BIKING
ENVIRONMENTAL EDUCATION
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RESILIENCY INFRASTRUCTURE
PEOPLE!
RESILIENCY INFRASTRUCTURE
PROGRAM
RESILIENCY INFRASTRUCTURE
COMMUNITY
ROBERT MOSES
JANE JACOBS

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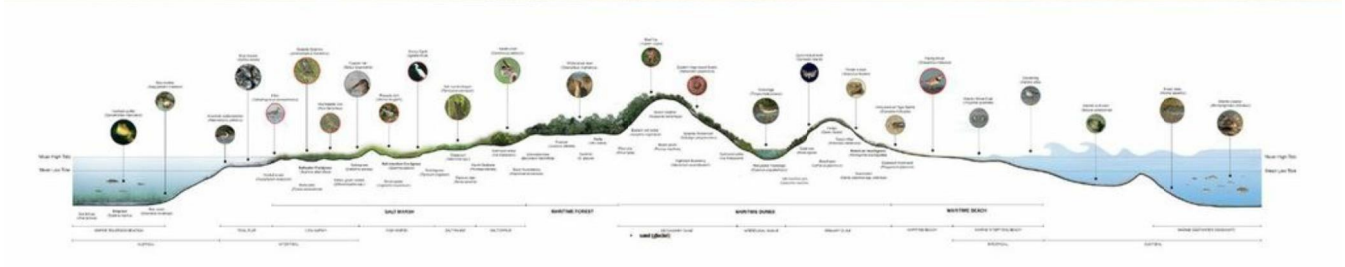

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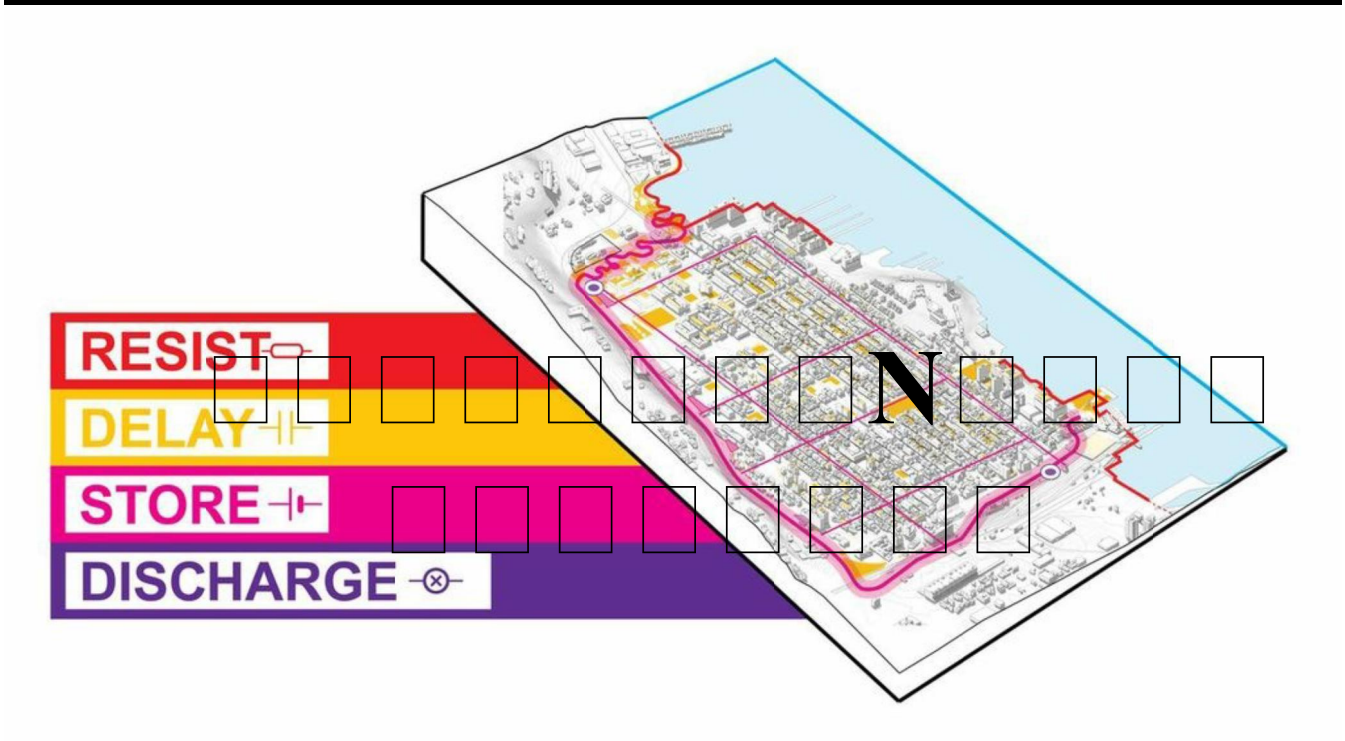
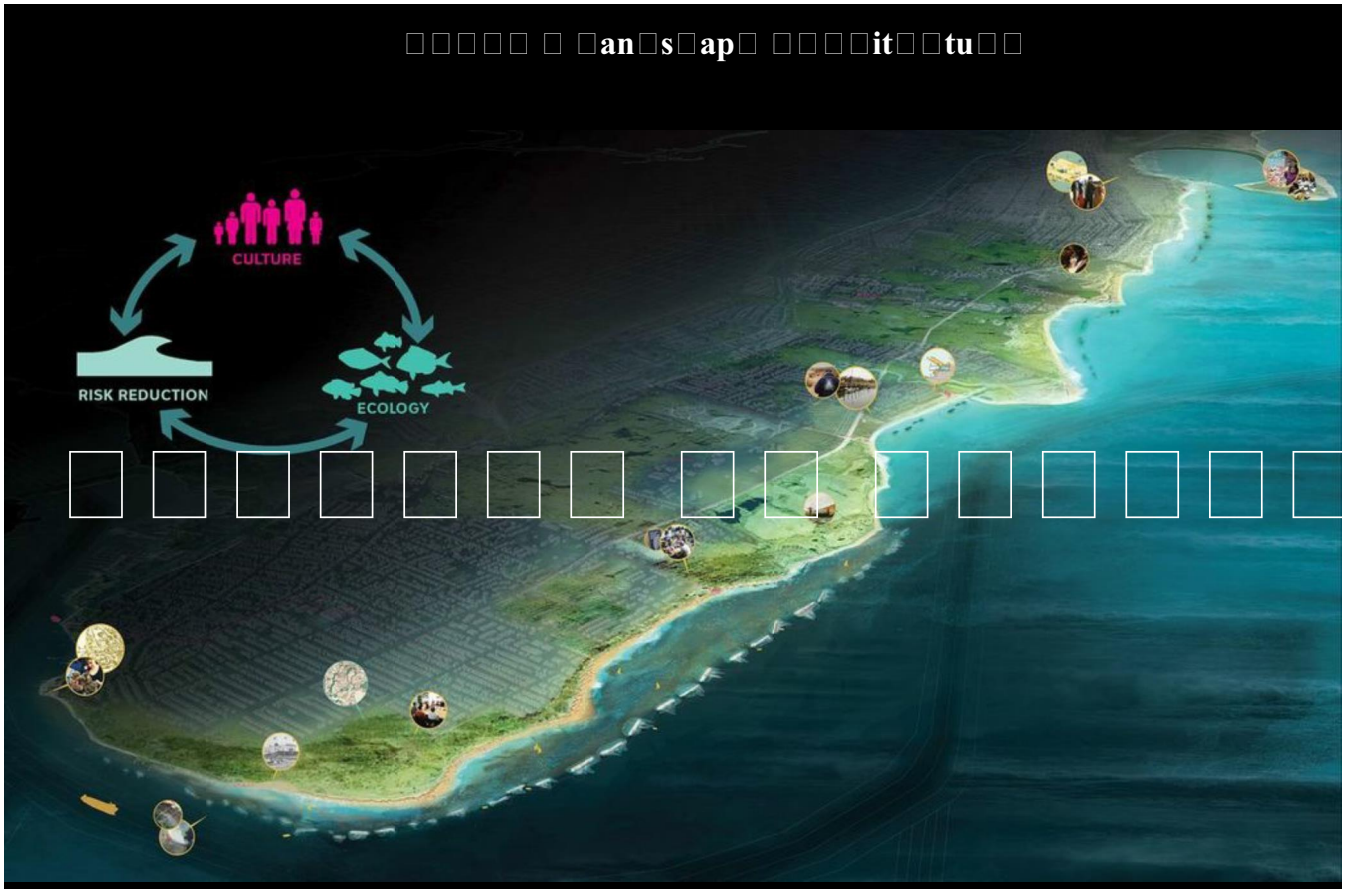
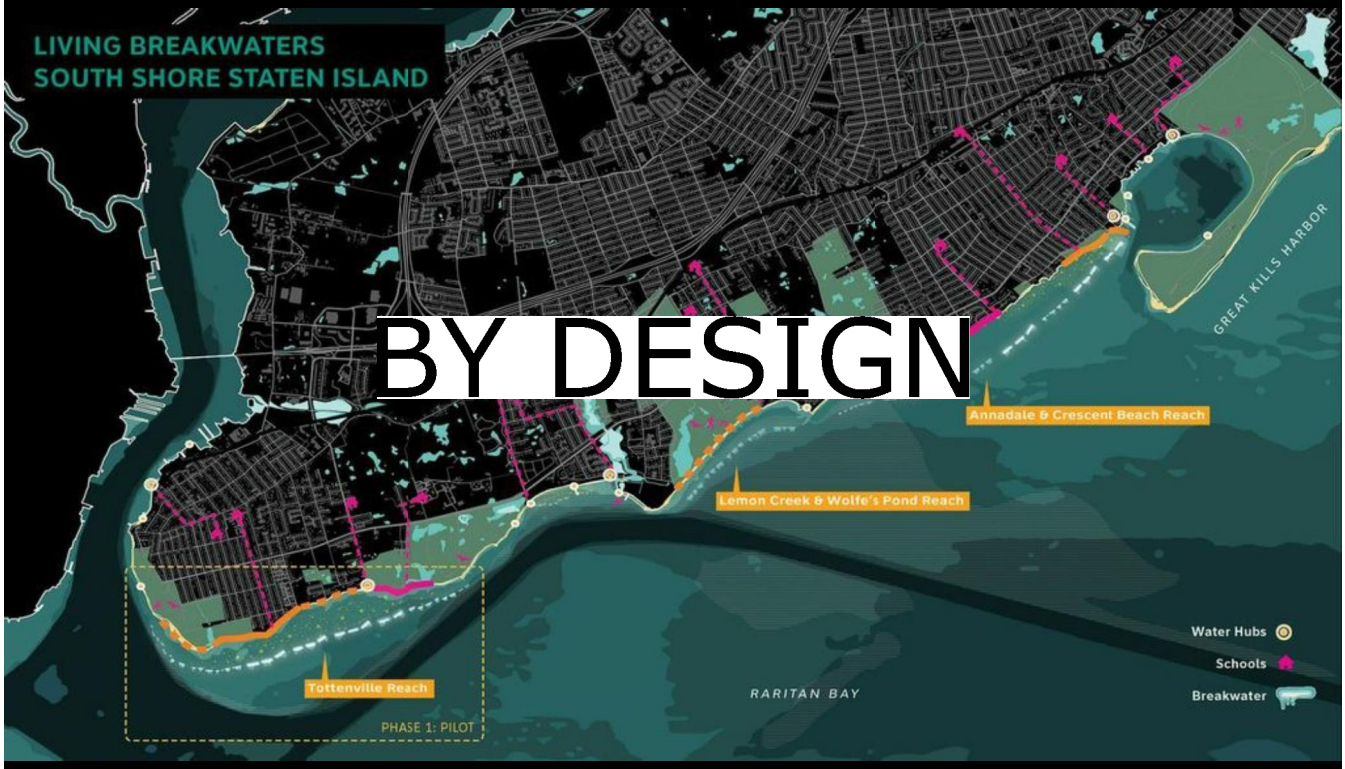


RESIST
DELAY
STORE
DISCHARGE


CULTURE
RISK REDUCTION
ECOLOGY

SCAPE / Landscape Architecture



BY DESIGN

LEADERSHIP

IMAGE: CAMERON BLAYLOCK PHOTOGRAPHY

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REBUILD BY DESIGN

An Initiative of the President's Hurricane Sandy Rebuilding Task Force

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The New Jersey Recovery Fund

Rebuild by Design: Innovating Together to Create a Resilient Region

After three months of research and conversation with communities in New York, New Jersey, Connecticut, and beyond, the Department of Housing and Urban Development (HUD) has selected 10 projects across the Sandy-affected region to be pursued in the next and final stage of the Rebuild by Design competition. Share your views on these thoughtful, unique visions for a more resilient region, and check out streaming video of the October 28 morning program or evening program in which all of the Design

Working Together to Build a More Resilient Region

Winning Proposals

LIVING BREAKWATERS

SCAPE / Landscape Architecture
Staten Island, New York

Hunts Point Lifelines

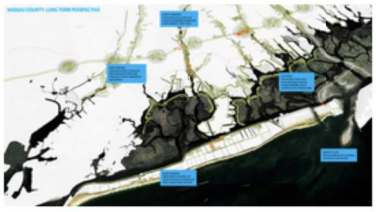
PennDesign/OLIN
Bronx, New York

Resist, Delay, Store, Discharge: A Comprehensive Strategy for Hoboken

OMA
Hoboken, New Jersey

New Meadowlands: Productive City + Regional Park

MIT CAU + ZUS + URBANISTEN
The Meadowlands, New Jersey



Living with the Bay: A Comprehensive Regional Resiliency Plan for Nassau County's South Shore

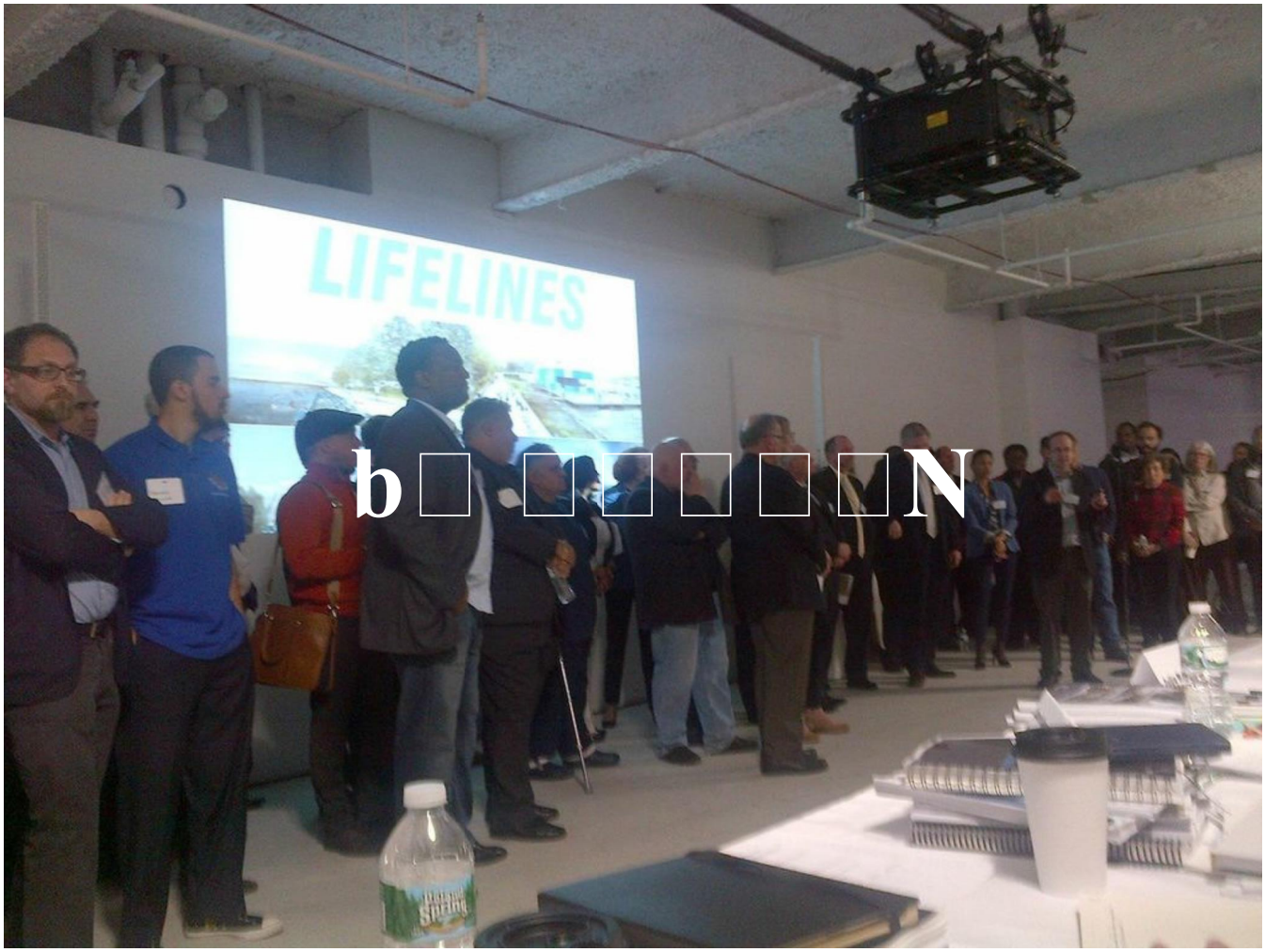
Interboro Team
Long Island, New York

BIG U

BIG TEAM
New York, New York

Asbury Park Capacity-Building: The City of Asbury Park

HUD Rebuild by Design | HR&A Advisors with Cooper, Robertson & Partners



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REBUILD BY DESIGN

Promoting Resilience Post-Sandy Through Innovative Planning and Design

An Initiative Of The President's Hurricane Sandy Rebuilding Task Force

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