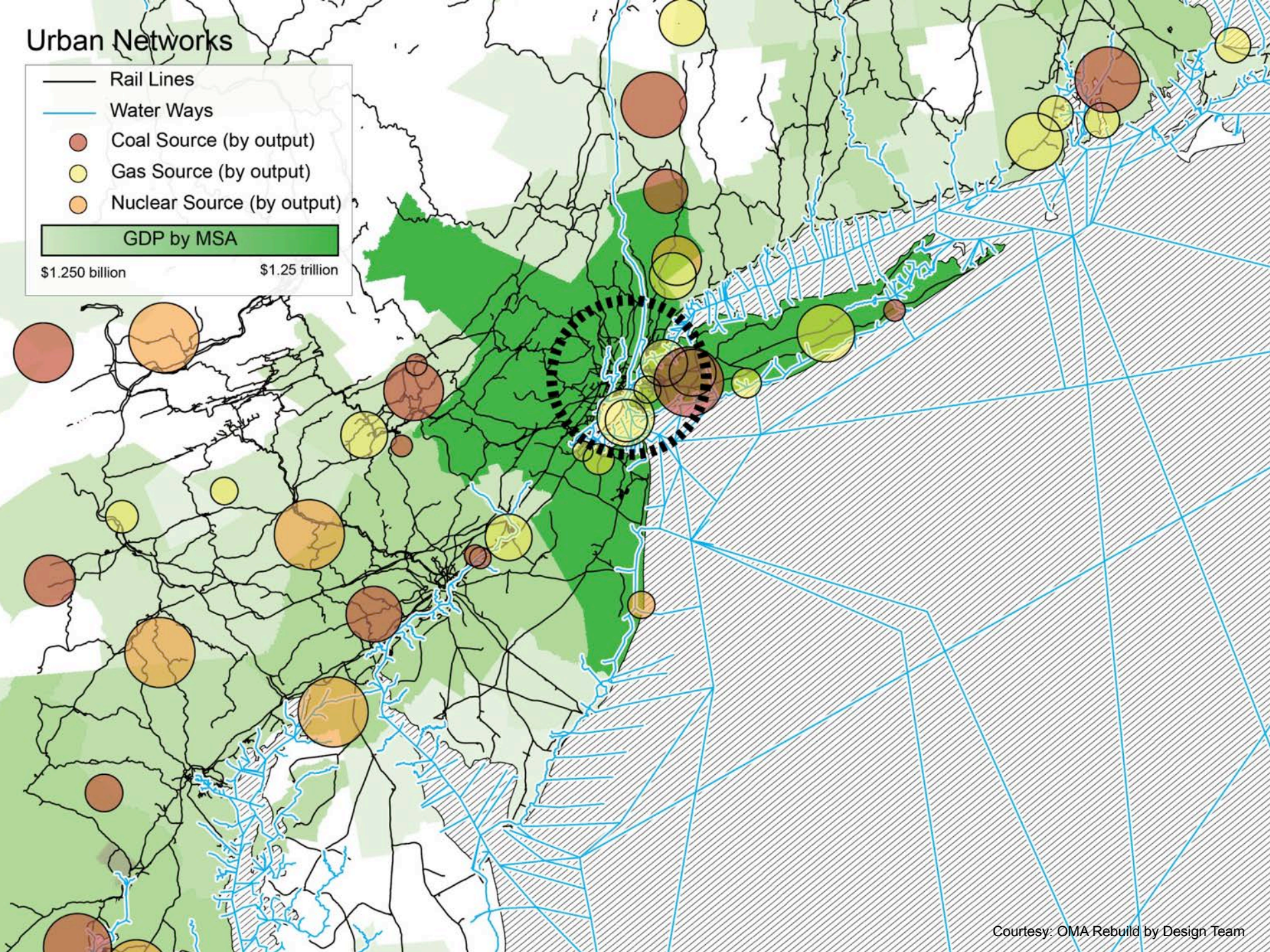
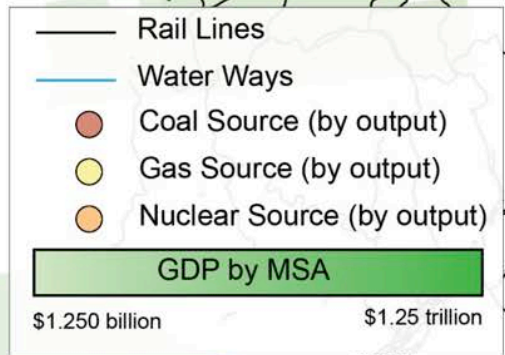


PHYSICAL + SOCIAL + ECONOMIC VULNERABILITY

- Overlay of Economic + Social Criteria
- Social Vulnerability based on HUD criteria
- Economic Vulnerability due to cost of risk and NFIP changes

Courtesy: BIG Rebuild by Design Team

Urban Networks



Rebuild by Design Project Locations

Comprehensive Solutions: City, Shore, Regional

Hunts Point: Lifelines

A look at jobs and food supply as critical resilience infrastructure and communities as integrators of economic, social and ecological potential to strengthen the whole, rather than the water's edge alone.

The Big 'U'

A community driven, integrated protection system, wrapping from West 57th St down to The Battery and up to East 42nd Street

New Meadowlands Productive City + Regional Park

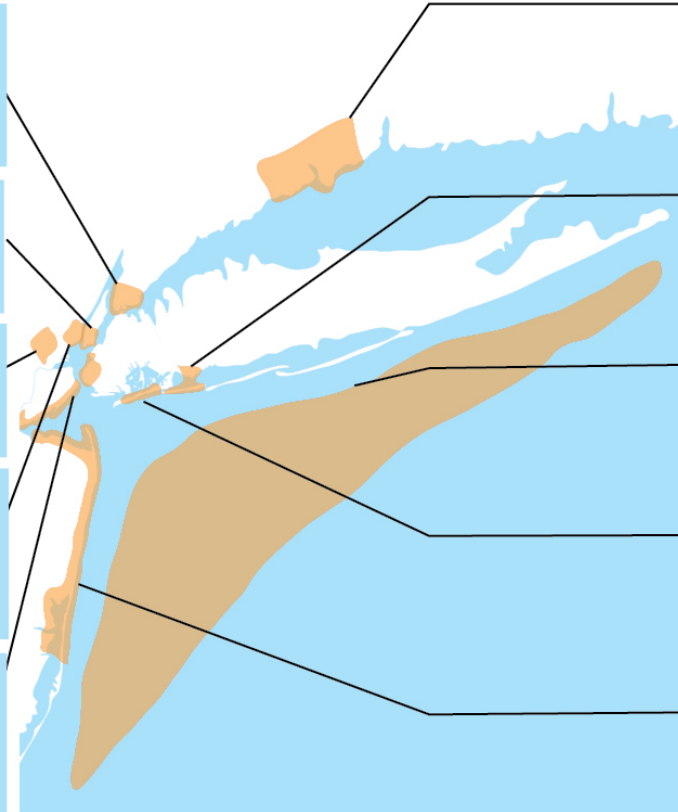
A resilient district combining an innovative urban mix of residential and logistics around a regional tidal park

Resist, Delay, Store, Discharge: a comprehensive strategy for Hoboken

A comprehensive flood strategy that both defends the entire city, and enables commercial, civic, and recreational amenities to take shape.

Living Shorelines & Habitat Breakwaters Staten Island/Raritan Bay

A stepping down of risk for coastal communities by pairing living breakwaters with absorptive shoreline edges, working with local communities & schools.



Resilient Bridgeport Network

Spaces and programs for the South End to become more self-sufficient through public safety, education and job training, community activities, and a mix of commercial and housing functions

Living with the Bay: Resiliency-Building Options for Nassau

A collection of resiliency-building options ensure safety of residents during extreme weather events while also enhancing the quality of everyday life.

Designing with Nature for the Future of the Mid-Atlantic Coast

Modeling the risks and benefits of large-scale natural barriers designed for individuals, communities and the region.

Coastal Commercial Resiliency Financing

A replicable financial tool to enable temporary & long-term physical & operational interventions, protecting critical local businesses from extreme weather events.

Resilience + The Beach: Integrating Culture, Economy, and Ecology for the Future Jersey Shore

A rethinking of three iconic elements of the shore—the pier, the boardwalk, and the marina— to help coastal communities adapt and strengthen in the face of ongoing sea level rise and storm threats.



Iterative & Participatory Design Process

Multi-Disciplinary & Collaborative

Regional, Systems Approach

Iterative & Participatory Process

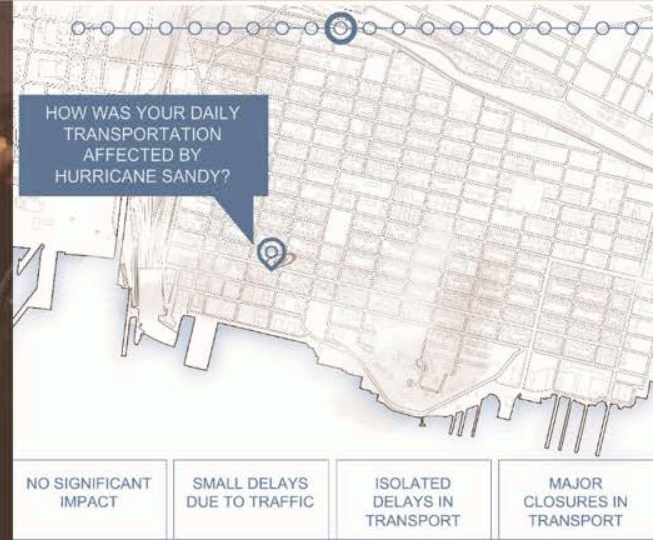
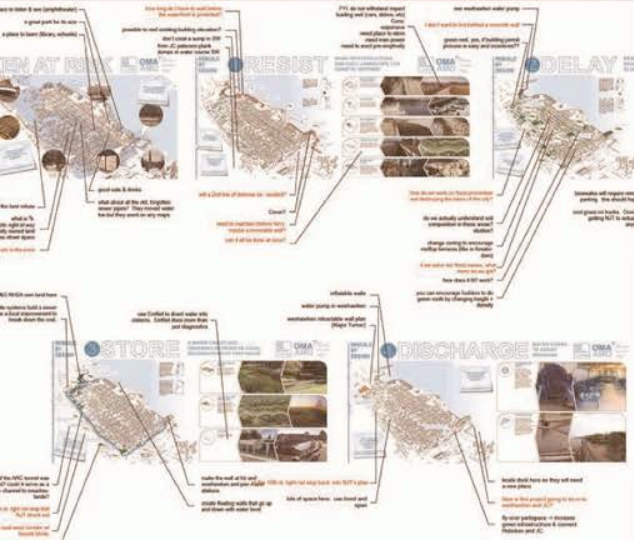
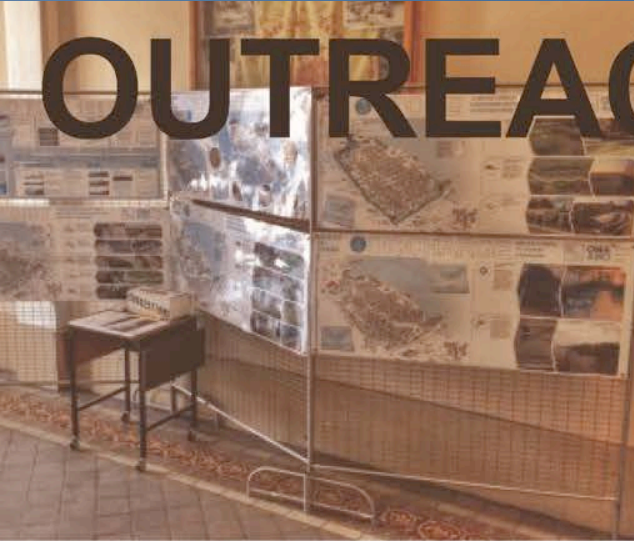
Multiple Hazards & Co-Benefits

Integrated & Leveraged Solutions



Use of Creative Tools for Communication & Outreach

OUTREACH TOOLS



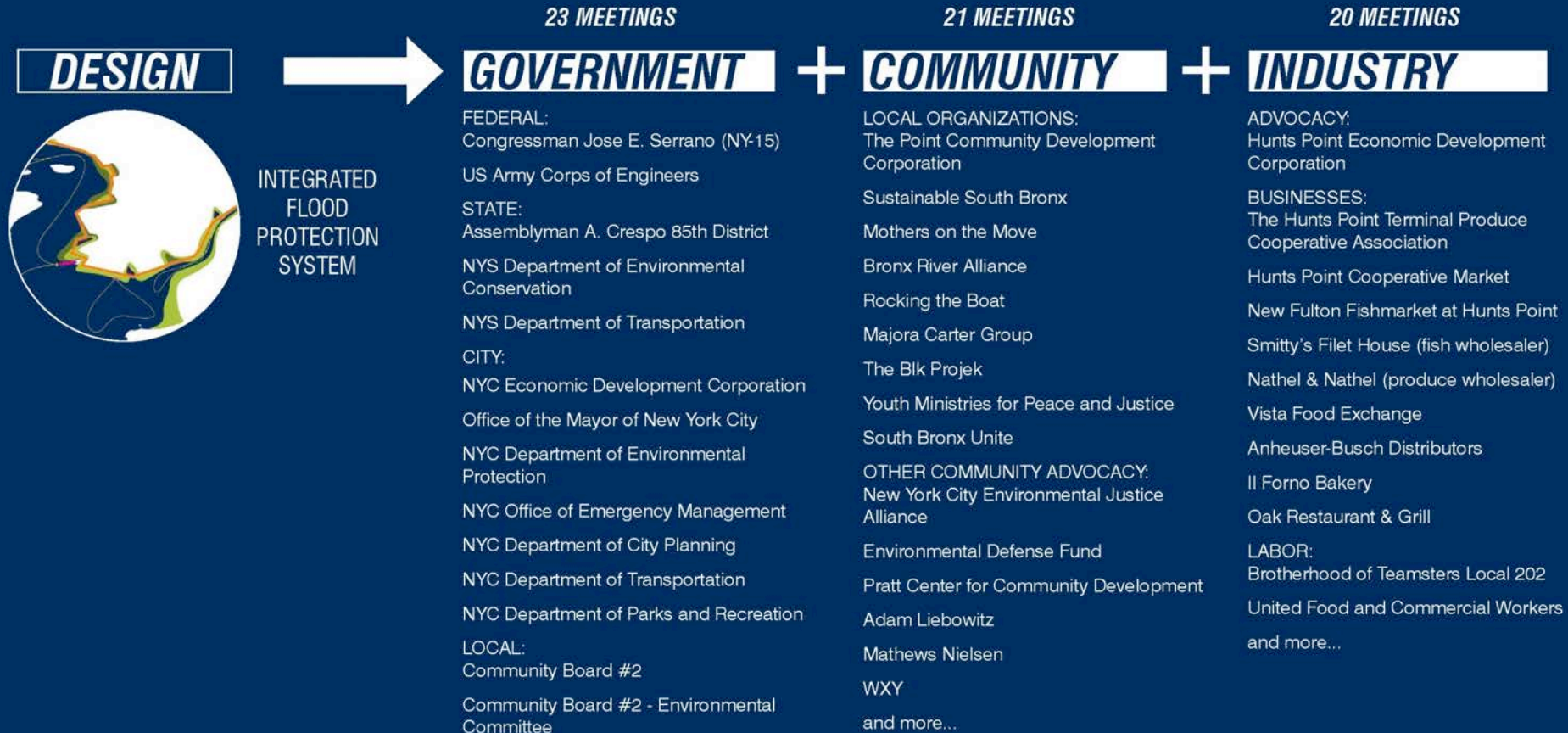
Engagement... Not Just Your Traditional/Default Public Hearing

ENGAGEMENT



Example of Stakeholder Outreach in Hunts Point/South Bronx, NYC

Stakeholder Meetings



Forward-Leaning: Don't make business come to you... you go to them



January 23rd Business lunch and slide show in Anheuser Busch conference room, Food Center Avenue



Seeking Individual Voices



Ramon Eduardo, Owner of Forno Bakery



Tanya Fields, The BLK Projek



Charles "Sippi" White, Retired Teamster



Darius Davis, local youth project



Wanda Salaman, Mothers on the Move



Ralph Acevedo, Community Board 2



Edwin Morales, Foreman, Nathel and Nathel



Stephen Smith + Darius Davis, local youth project

Interview and youth-led video projects to capture views of community members with different interests and vantage points



Bringing the Community Together

FIRST ANNUAL HUNTS POINT
SLAMBAKE!



March 19th Cooking Competition to gather diverse interests around Hunts Point common resource: food.



Result: Understanding and Alignment of Interests

Overlapping interests form design + program



INTEGRATED
FLOOD
PROTECTION
SYSTEM

- REGION: stable food supply
- INDUSTRY: protection from flooding
- COMMUNITY: waterfront Greenway + River access
- ENVIRONMENT: river ecology and water quality



LIVELIHOODS
+
LEADERSHIP

- REGION: economic recovery initiatives
- INDUSTRY: need for steady labor
- COMMUNITY: availability of living wage jobs in poorest congressional district
- ENVIRONMENT: need for stewards and caretakers of improved ecology



CLEANWAY
CONNECTIONS

- REGION: regulatory compliance
- INDUSTRY: better truck routes; back up and affordable energy
- COMMUNITY: safer connections from neighborhood; improved air quality
- ENVIRONMENT: cleaner air and water



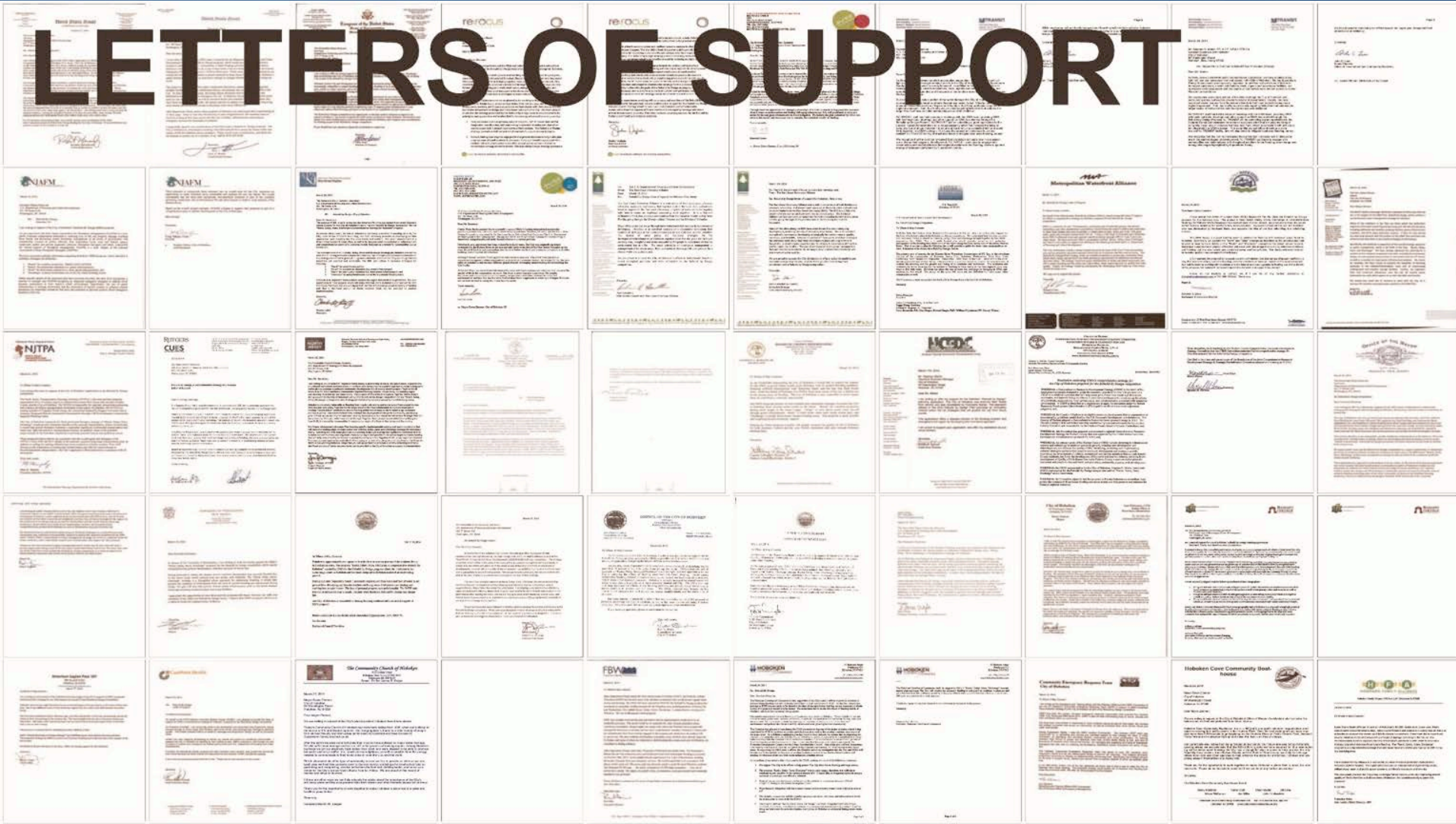
EMERGENCY
MARITIME
SUPPLY

- REGION: maintain access to food supply during disaster
- INDUSTRY: maintain food supply during disaster; expand potential shipping modes
- COMMUNITY: potential to reduce reliance on trucks; public space when no disaster
- ENVIRONMENT: potential to reduce reliance on trucks



Result: Community Buy-In & Ownership

LETTERS OF SUPPORT



Multiple Hazards & Co-Benefits

Multi-Disciplinary & Collaborative

Regional, Systems Approach

Iterative & Participatory Process

Multiple Hazards & Co-Benefits

Integrated & Leveraged Solutions



Multiple Flood Hazards... from Air, Sea, and Land



DIFFERENT FLOOD DIRECTIONS



DIFFERENT FLOOD PATTERN

