













### Northeast

- 6. Narragansett Bay, Rhode Island
- 7. Connecticut (*Proposed*)

### Mid-Atlantic

- 8. Hudson River, New York
- 9. Jacques Cousteau, New Jersey
- 10. Delaware
- 11. Chesapeake Bay, Maryland 12. Chesapeake Bay, Virginia

### Southeast

- 13. North Carolina
- 14. North Inlet-Winyah Bay, South Carolina
- 15. ACE Basin, South Carolina
- 16. Sapelo Island, Georgia
- 17. Guana Tolomato Matanzas, Florida

22. Mission-Aransas, Texas

### West

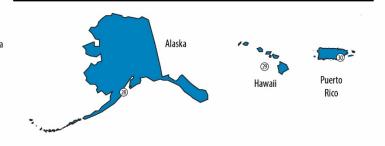
- 23. Tijuana River, California
- 24. Elkhorn Slough, California
- 25. San Francisco Bay, California
- 26. South Slough, Oregon
- 27. Padilla Bay, Washington
- 28. Kachemak Bay, Alaska

### Pacific

29. He'eia, Hawai'i

### Caribbean

30. Jobos Bay, Puerto Rico



## Reserves are protected for:

- Long-term research and monitoring
- Education
- Resource stewardship







Locally relevant....

Nationally significant!

## What's in a Name?





October 20th, 1997

Dedicated in honor of Jacques Y.
Cousteau by Congressman Saxton









## **Our Mission:**

To improve the management of New Jersey coastal environments and communities through science, education and stewardship.

## **Partners**











PARK



THE RICHARD STOCKTON COLLEGE OF NEW JERSEY



New Jersey Conservation







URBAN COAST INSTITUTE

MONMOUTH
UNIVERSITY

where leaders look forward\*\*

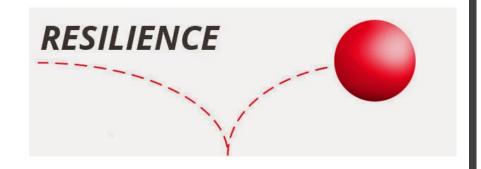




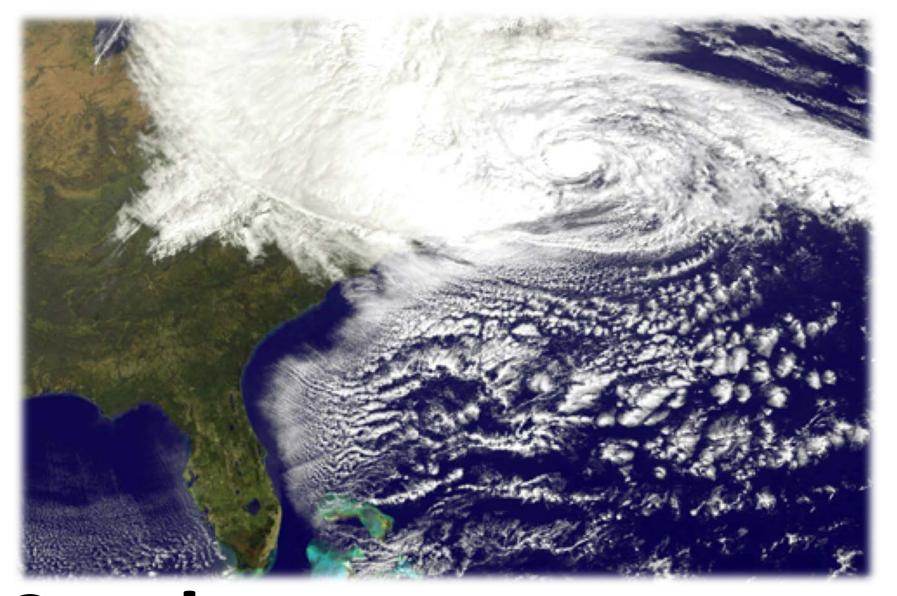






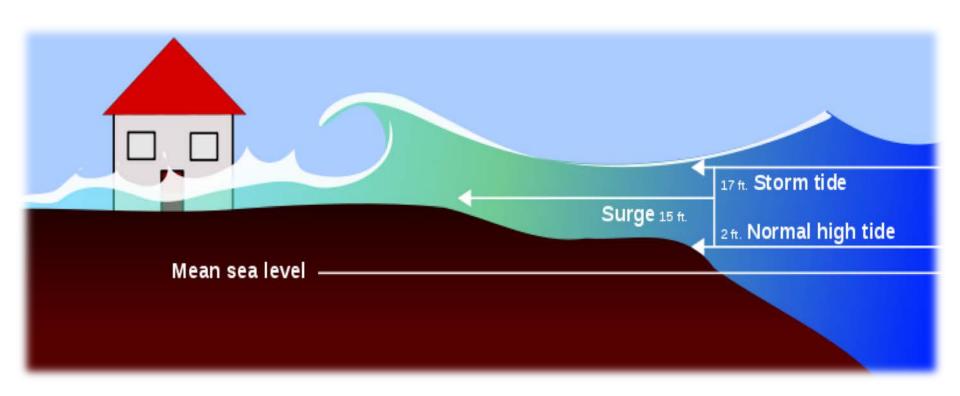






Sandy: Changed the Coastal Conversation

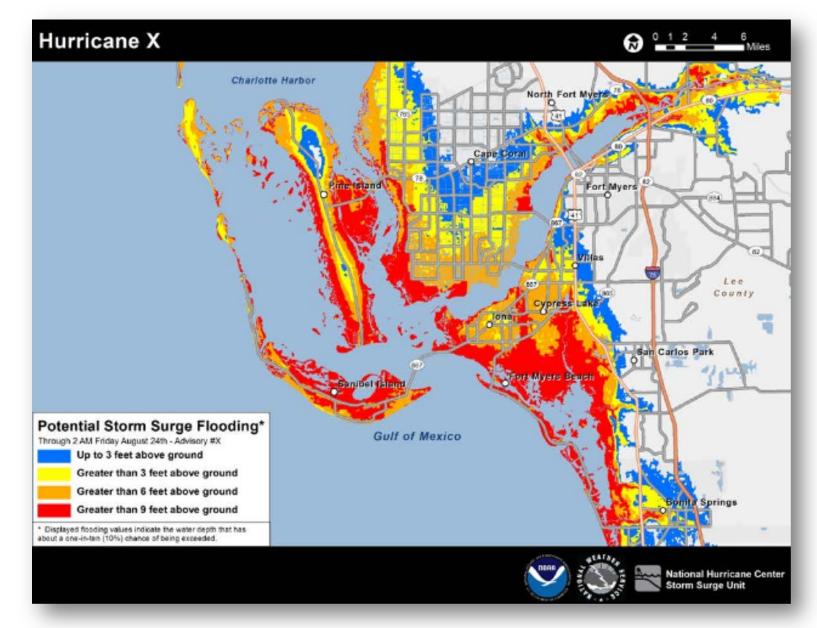




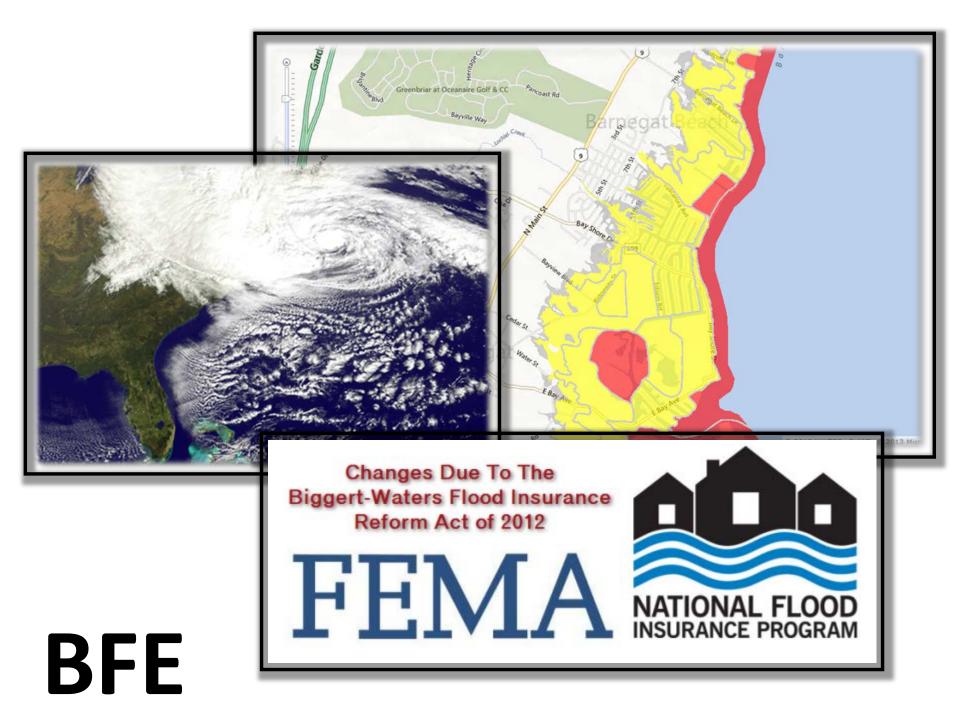
# **Storm Surge**



# Storm Surge



## **Storm Surge**





# **Advisory BFEs**



## FIRMS and PFIRMS



## Green Infrastructure

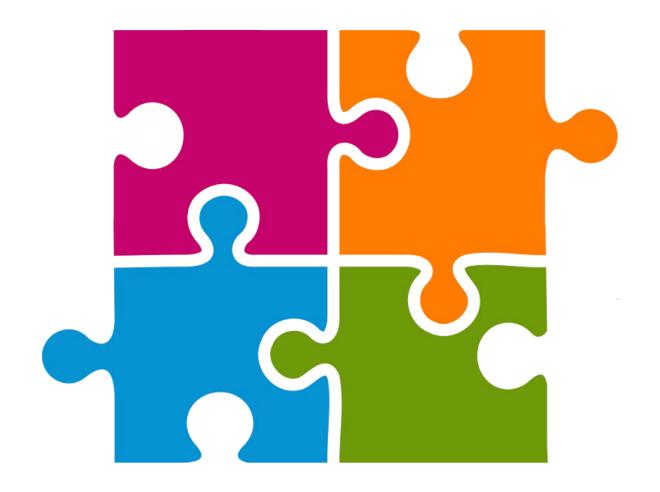


Green Infrastructure



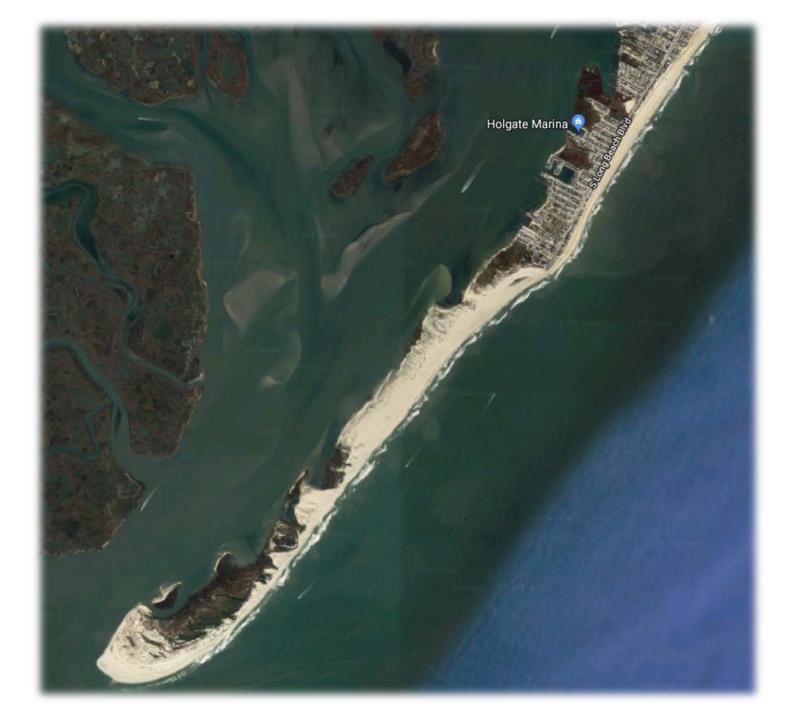
# Green Infrastructure



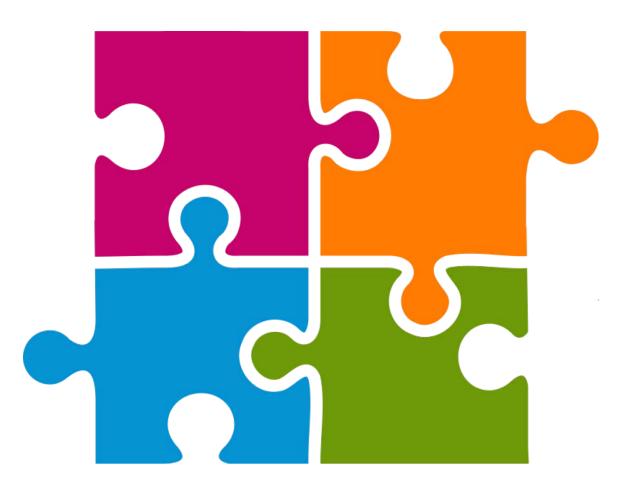


**Awareness of Change** 

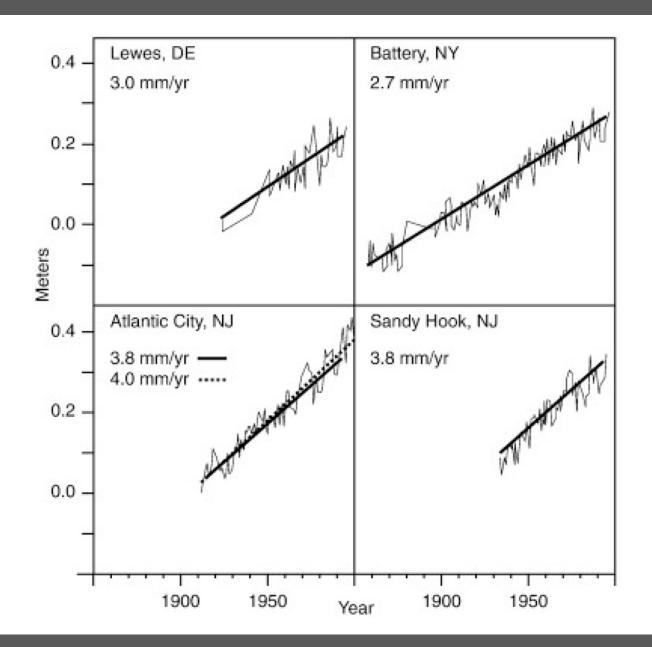








Use of Science to Inform Decision Making



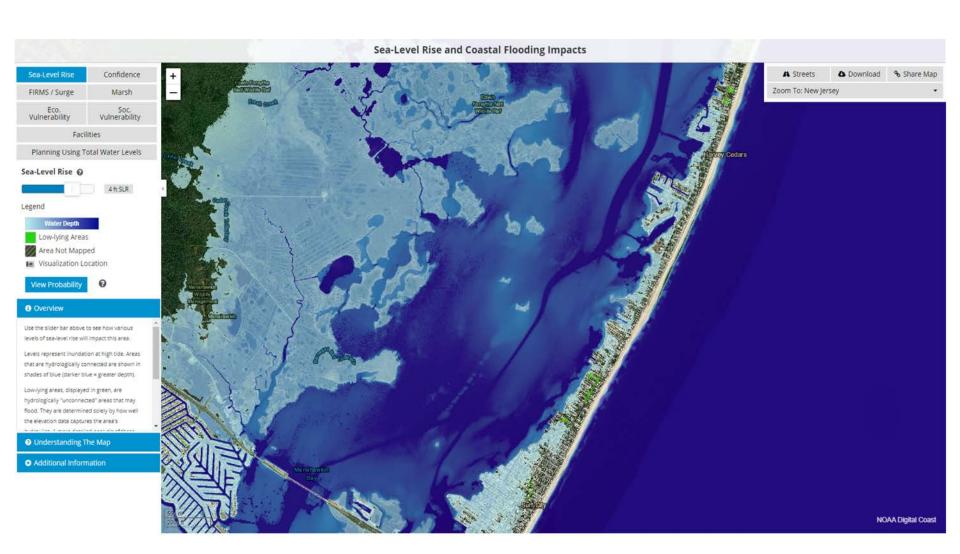
### **Sea Level Rise Estimates for New Jersey**

	Central Estimate	Likely Range	1-in-20 Chance	1-in-200 Chance	1-in-1000 Chance
Year	50% probability SLR meets or exceeds	67% probability SLR is between	5% probability SLR meets or exceeds	0.5% probability SLR meets or exceeds	0.1% probability SLR meets or exceeds
2030	0.8 ft	0.6 – 1.0 ft	1.1 ft	1.3 ft	1.5 ft
2050	1.4 ft	1.0 – 1.8 ft	2.0 ft	2.4 ft	2.8 ft
2100 Low emissions	2.3 ft	1.7 – 3.1 ft	3.8 ft	5.9 ft	8.3 ft
2100 High emissions	3.4 ft	2.4 – 4.5 ft	5.3 ft	7.2 ft	10 ft



**Existing Tools** 





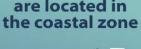
## www.NJFloodMapper.org

Coastal Hazards
Along New Jersey's
Coastal Zone

HISTORIC DISTRICTS



of New Jersey's
HISTORIC
DISTRICTS
are located in





Of the 554 historic districts located in the coastal zone, 40% are projected to be impacted by a total water level of 1 foot above MHHW; 50% by a total water level of 5 feet; and 60% by a total water level of 12 feet above MHHW

Coastal Hazards Along New Jersey's Coastal Zone

EVACUATION ROUTES



6 IN 7
miles of
EVACUATION
ROUTES

in New Jersey\* are located in the coastal zone



Of the 1,748 miles of evacuation routes located in the coastal zone, 25% are projected to be impacted by a total water level of 3 feet above MHHW and Coastal Hazards
Along New Jersey's
Coastal Zone

COUNTY OPEN SPACE



4 IN 7 COUNTY OPEN SPACE

properties in New Jersey are located in the coastal zone



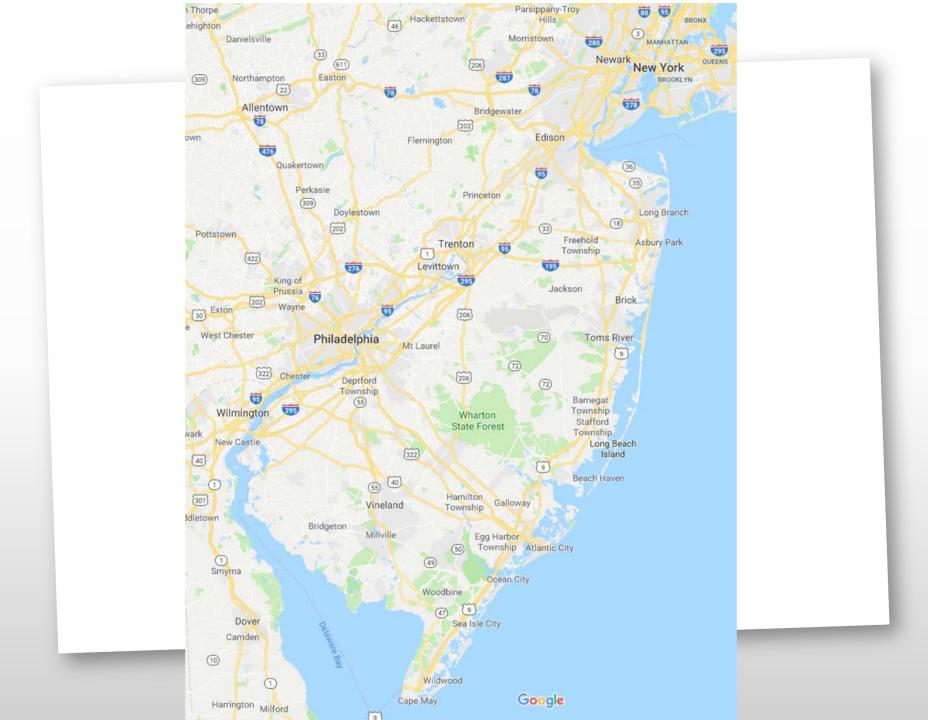
Of the 5,886 county open space properties in the coastal zone, 20% are projected to be impacted by a total water level of 1 foot above MHHW and

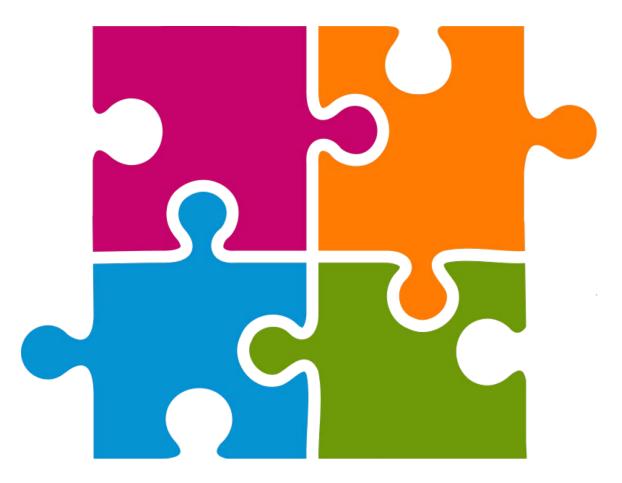
# Getting to Resilience www.PrepareYourCommunityNJ.org





**Varied Coastline** 





**Partners** 

























NJ Climate Adaptation Alliance







Climate Institute

# Resilience Partners.

# Municipal Members

- Land use Planners
- Hazard Mitigation Planners
- Floodplain Managers
- Emergency Managers
- Stormwater Managers
- Natural Resource
   Managers
- Municipal Engineers
- Town Administrators
- ConstructionCode Official
- Environmental Commissioners
- Clerks





# Community





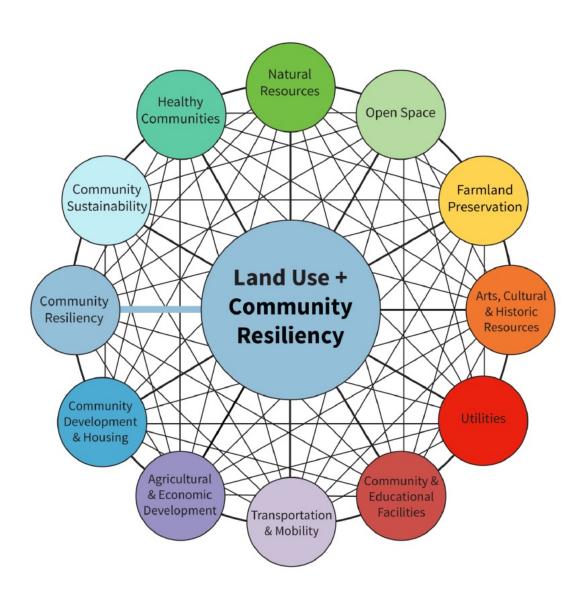
# The Next Generation



**Holistic Incorporation** 

# Municipal Plans

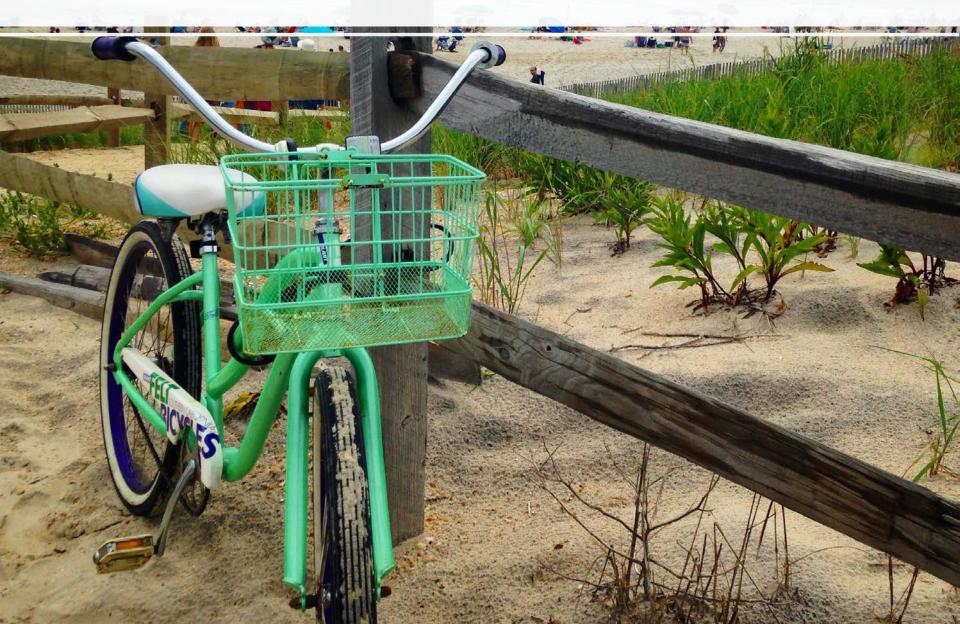
- Master Plan
- All-Hazards Mitigation Plan
- Floodplain Management
   Plan
- Evacuation Plan
- Emergency Response Plan
- Continuity of Operations
   Plan
- Disaster Recovery Plan
- Open Space Plan
- Stormwater Management
   Plan





#### **Cultural**

#### **Economic**



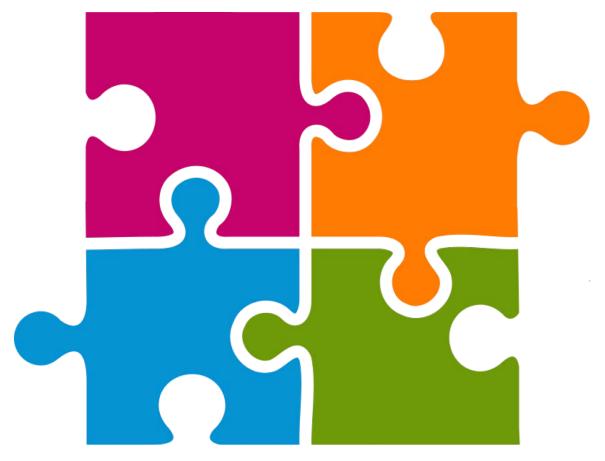


**Social** 



Arts





**Grey Infrastructure** 



**Hardened Structures** 





**Green Infrastructure** 











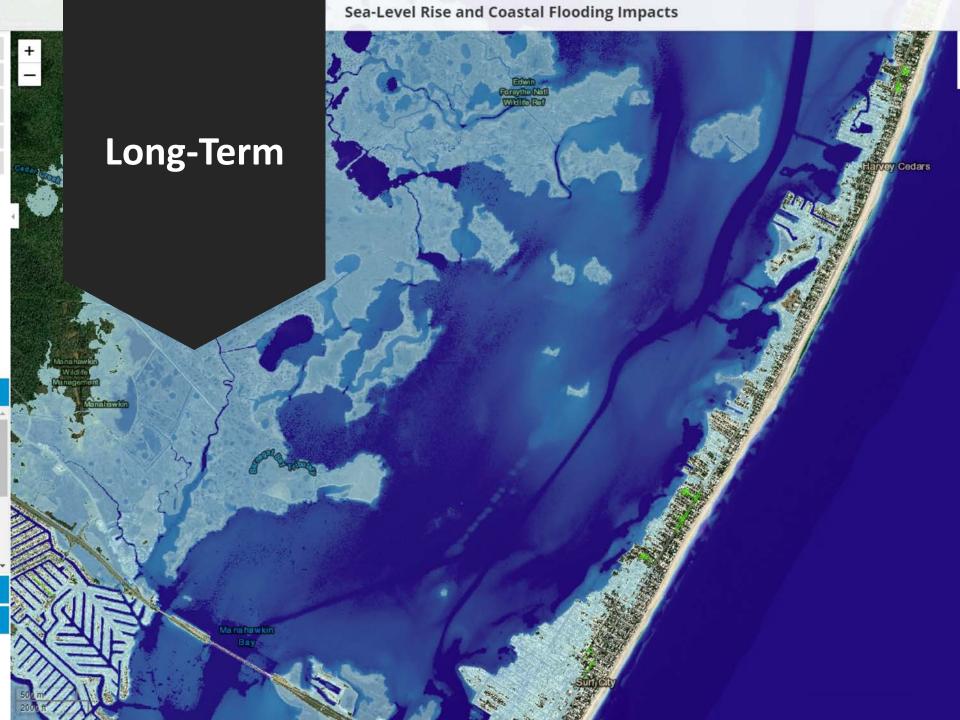
**Short-term & Long-term** 

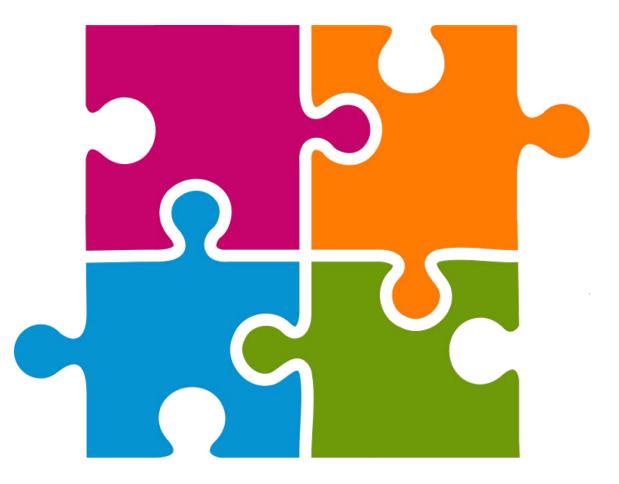
### **Disaster Preparedness and Recovery**



## **Hazard Mitigation Implementation**







Agencies, Orgs, Academia

























NJ Climate Adaptation Alliance

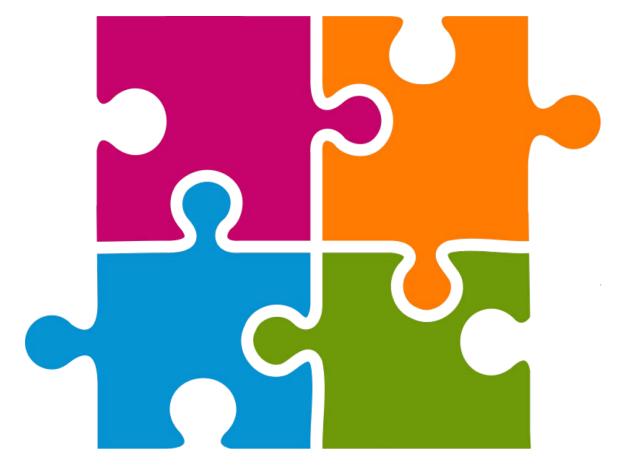






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# Agencies, Orgs, Academia...



**Ongoing State Efforts** 



Regional Planning for a Stronger New Jersey





Willingness to Adapt

















## Lisa Auermuller, Asst. Manager