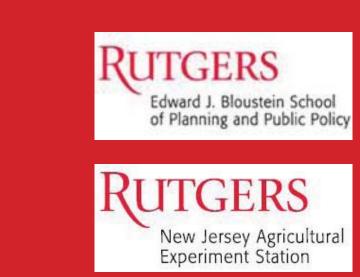
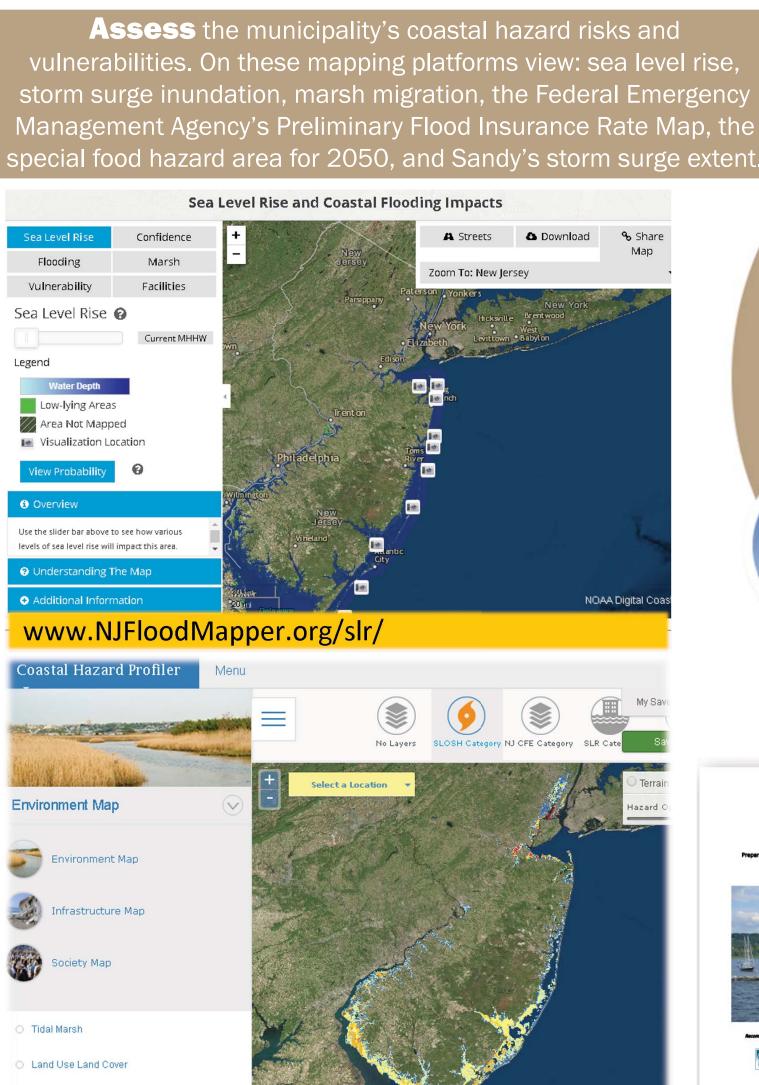


## RU Resilient? Combining Rutgers' Resources to Improve Municipal Resilience

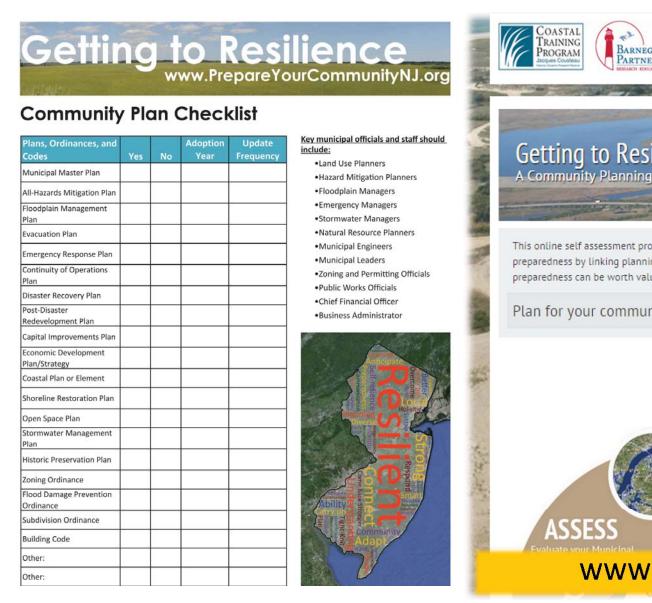




www.njfloodmapper.org/profiler/#/app

FRAMES Communities

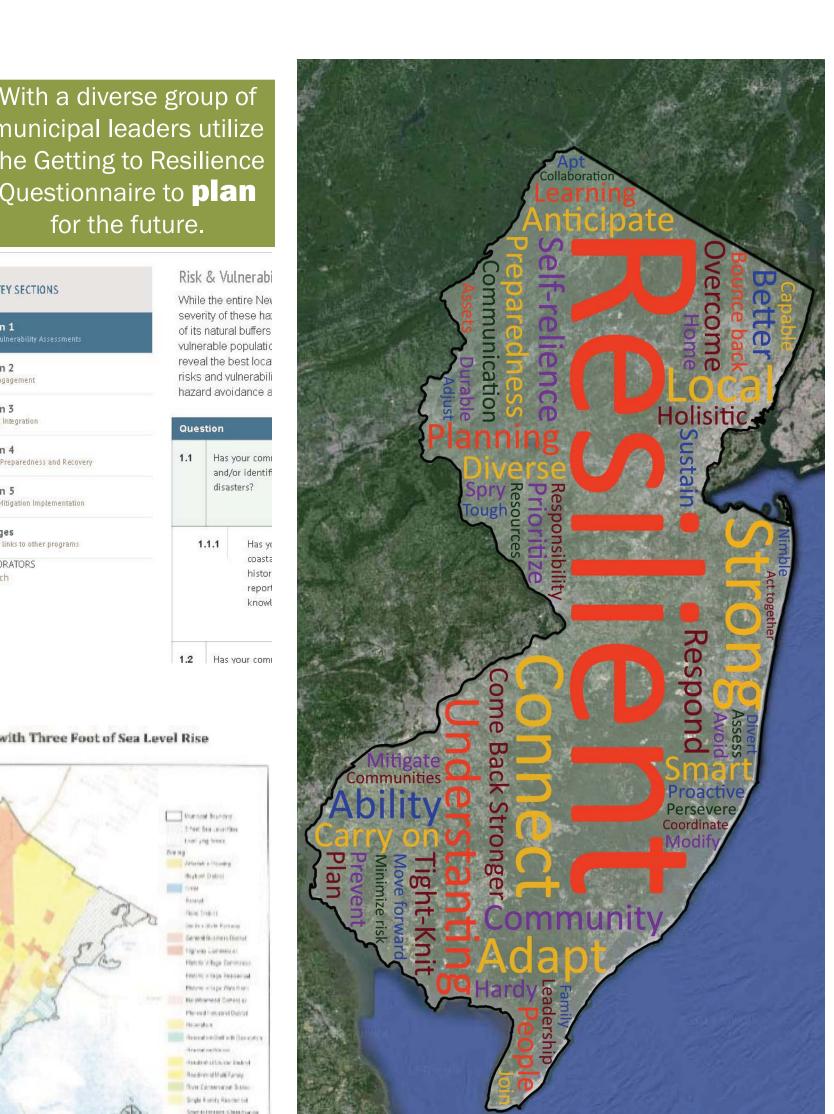
Jenna Gatto, Chris Huch, Stacy Krause



COASTAL FRANSIS SOMEAS FORET CONSTITUTION

Implement actions to increase municipal preparedness.





COASTAL BAINING PROGRAM New Jersey's coastal municipalities face many coastal related hazards, largely related to flooding. As municipalities continue to work to be better prepared for today's conditions, climate change and sea level rise are likely to increase the intensity and frequency of flooding related hazards. Adapting to these changing conditions often

RESILIENCE

Municipal Preparedness

Getting to Resilience

to Plan for the Futur

requires assistance from outside groups. The Jacques Cousteau National Estuarine Research Reserve has worked with municipalities throughout the state to implement the "Getting to Resilience" process. The Rutgers Edward J. Bloustein School of Planning

and Public Policy has brought mapping and planning document suggestions to multiple communities. As these two groups work together to share resources and skillsets,

New Jersey municipalities benefit from the leveraged efforts of two leaders in coastal resiliency. This partnership now aims to take the latest and best science from recent reports such as the New Jersey Climate Adaptation Alliance's "Assessing New Jersey's Exposure to Sea-Level Rise and Coastal Storms: Report of the NJ Climate Adaptation Alliance Science and Technical Advisory Panel", newly developed tools such as the Community Vulnerability Assessment, and regional focuses such as the NJ FRAMES project to further increase the scope and level of impact of Rutgers assistance for New Jersey's coastal communities. Water **GTR Communities** GTR/CVA Communities GTR/FRAMES Communities

## **New Jersey Fostering Regional Adaptation through Municipal Economic Scenarios (NJ FRAMES)**

for the future.

15 communities along the Navasink and Shrewsbury Rivers in Monmouth County, NJ:

Eatontown

Middletown Monmouth beach Oceanport

Rumson Sea Bright Shrewsbury

• Little Silver Long Branch

Fair Haven

Highlands

Ocean Township Red Bank

West Long Branch NJ FRAMES is one of 12 NOAA-funded Regional Coastal Resilience Grants awarded nationally. NJ FRAMES partners Jacques Cousteau National Estuarine Research Reserve, the Rutgers

Tinton Falls

Climate Institute, NJ Department of Environmental Protection, Louis Berger, and Oceanport Borough representing the Two Rivers Council of Mayors. The work will be done on a regional basis instead of providing GTR and CVA, or the integrated

process, municipality by municipality. There will be a cost-benefit analysis performed for the response scenarios and, based on the community-selected preferred alternative, a regional resilience and adaptation action plan will be developed.

GTR/FRAMES Communities

**FRAMES Communities** 

## Getting to Resilience (GTR) and the Coastal Vulnerability Assessment (CVA)

Pilot project on incorporating the CVA into already established GTR process

Project components: Local planning document review, gaps in resilience, recommendations with models and templates where available, possible CRS credits

GTR and CVA as one cohesive set of meetings and one deliverable

Regional strategies using shared local planning gaps, the HMP process, and joint CRS program components

Borough of Lavallette Lacey Township

GTR/CVA Communities

Community Assets Sea Level Rise 1, 2, and 3

Lavallette Assetts and Sea Level Rise

Lacey Assets Barnegat Branch Trail Churches (6) Contaminated Sites (Active per NJDEP) (12) Dams (3)

Emergency Response (5) **Evacuation Routes (9)** Gas Stations (6)

Historic Sites and Buildings (9) **Industrial Park** Lacey Food Bank Lots on higher ground for parking (2)

Gov't and Municipal Operations (5)

Marinas (11) **Oyster Creek Nuclear Power Plant** Parks and Beaches (24) Pharmacies (3)

Pump Stations (19) Schools (6) Senior Living Facilities (4)

Storm-Related Retail/Major Employers (3) Telecomm Tower

Water Towers (2)

Lavallette Assets

Bay Front • Business District (Route 35)

Churches (3)

Contaminated Sites (Active per NJDEP) (3)

Emergency Response (2) Evacuation Routes (4)

Gas Station (1)

Gov't and Municipal Operations (5) Municipal Boat Slip Location (1)

Ocean Beach/Public Access Points Parks (3)

Pharmacies (1)

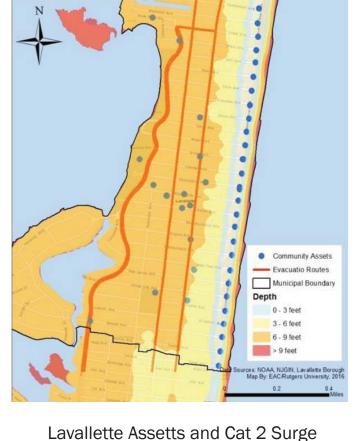
Schools (1)

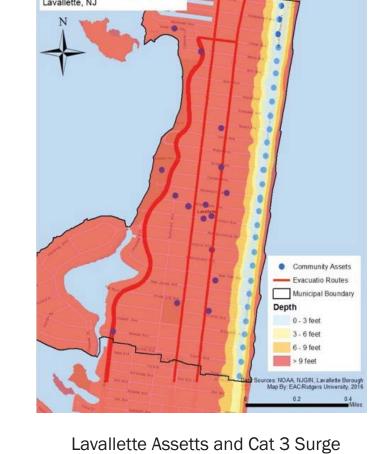
Storm-Related Retail (1)

Telecomm Tower (1) • Water Towers (1)



Lavallette Assetts and Cat 1 Surge





ata Sources: NOAA, NJGIN, Lacey Townsh Map By: EAC/Rutgers University, 20 Lacey Assetts and Cat 1 Surge Lacey Assetts and Cat 3 Surge Lacey Assetts and Sea Level Rise Lacey Assetts and Cat 2 Surge