

resilience

noun / re-sil-i-ence | re-‘zil-yen(t)s\

the ability of a community to ‘bounce back’ after hazard events such as hurricanes, coastal storms, or flooding – rather than simply reacting to impacts.

INNOVATIVE STRATEGIES TO PROMOTE RESILIENCE

WHO WE ARE
WHO WE ARE

The logo for New Jersey Future, featuring the words "NEW JERSEY" in white on a blue background and "FUTURE" in white on a green background, separated by a white wavy line.

NEW JERSEY
FUTURE

Promote responsible land-use policies:

- Revitalize cities
- Preserve open space
- Keep housing affordable
- Encourage transportation choices

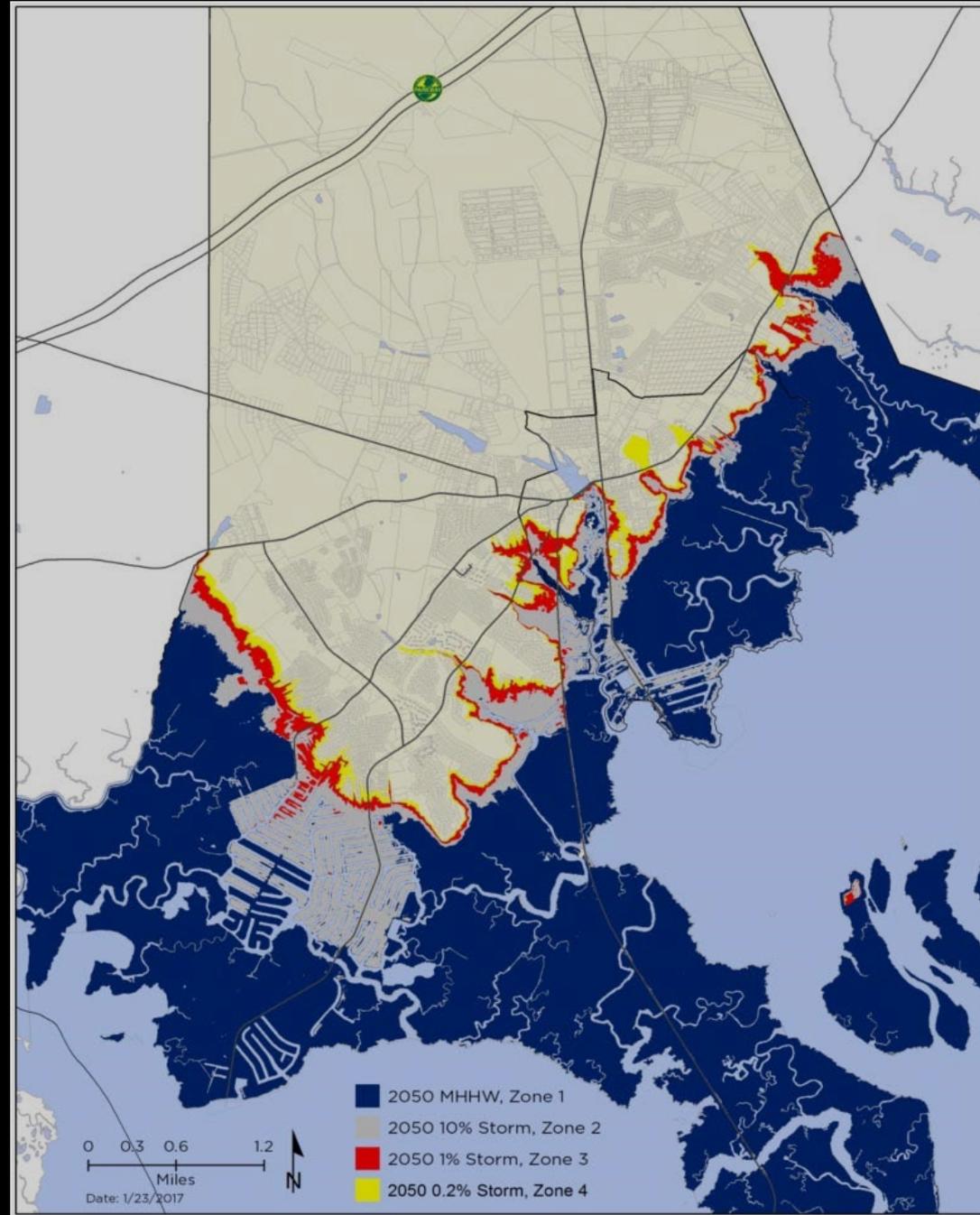


www.njfuture.org
[@newjerseyfuture](https://twitter.com/newjerseyfuture)

STRATEGIES TYPOLOGY

- 350 strategies
- 76 cities/regional areas
- Illustrative - not exhaustive search
- Categories: planning, regulatory, eco-based, economic, social, communications/outreach

- Inundation exposure
- Assets vulnerability (built, natural, cultural, social)
- Response strategy



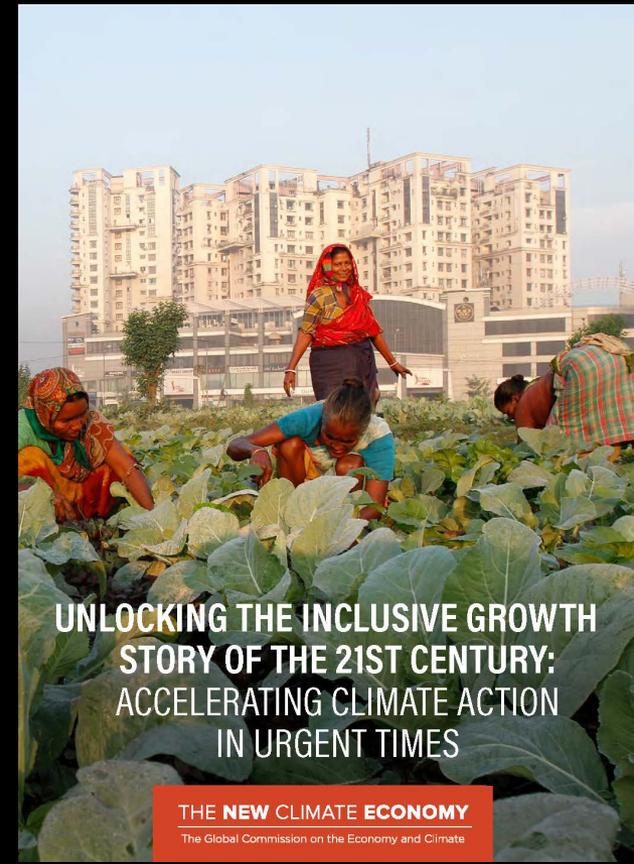
ASSESSED STRATEGIES

STRATEGY: Promote compact mixed use and infill development

WHO'S IMPLEMENTING IT: Burlington, VT

INTENDED OUTCOME: Concentrate growth, reduce GHG/VMT, mitigate climate change impacts

STATUS: Underway



**UNLOCKING THE INCLUSIVE GROWTH
STORY OF THE 21ST CENTURY:
ACCELERATING CLIMATE ACTION
IN URGENT TIMES**

THE NEW CLIMATE ECONOMY
The Global Commission on the Economy and Climate



STRATEGY: Restrictive redevelopment standards

WHO'S IMPLEMENTING IT: Durham, NH

INTENDED OUTCOME: Prohibit redevelopment in areas destroyed by storms or chronic flooding

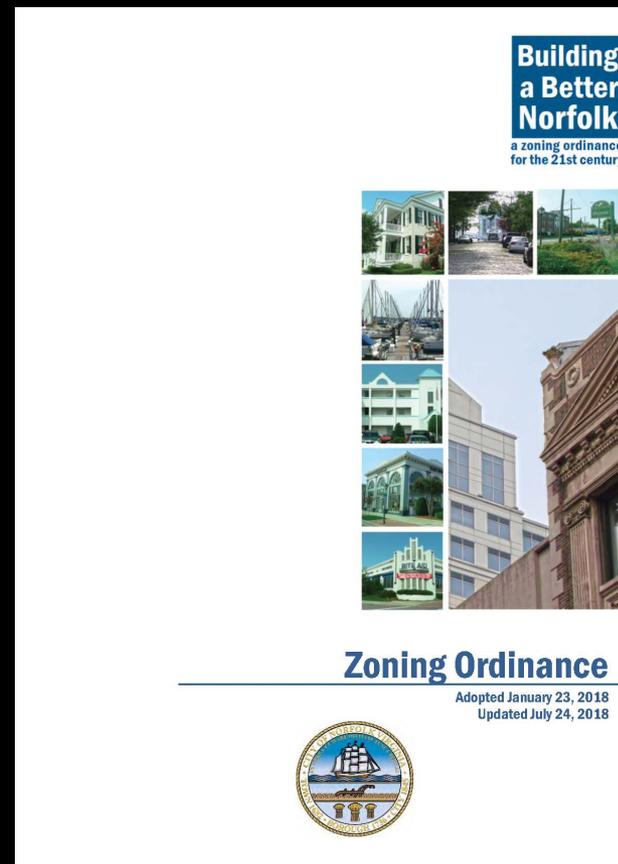
STATUS: Planned

STRATEGY: Resilient quotient system

WHO'S IMPLEMENTING IT: Norfolk, VA

INTENDED OUTCOME: Developers earn points for adopting flood risk reduction, stormwater management, energy resilience measures

STATUS: Adopted January 2018



STRATEGY: Shoreland protection overlay district

WHO'S IMPLEMENTING IT: Durham, NH

INTENDED OUTCOME: Prohibit hardening river and estuary shorelines

STATUS: Planned



Climate Adaptation Chapter:

Developing Strategies to Protect Areas at Risk from Flooding due to Climate Change and Sea Level Rise

June 25, 2013

Final



Prepared By
Strafford Regional Planning Commission
150 Wakefield Street, Suite 12
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STRATEGY: Created shoreline protection

WHO'S IMPLEMENTING IT: Palm Beach County, FL

INTENDED OUTCOME: Create 4 new islands to eliminate erosion/
restore natural habitats

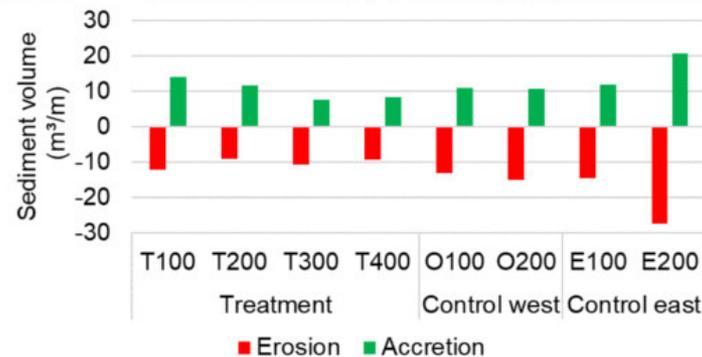
STATUS: Complete

STRATEGY: Beach erosion control with natural biopolymers

WHO'S IMPLEMENTING IT: Progreso, Yucatan Peninsula, Mexico

INTENDED OUTCOME: Increase sand particle adhesion to slow beach erosion

STATUS: Underway



STRATEGY: Transfer of development rights

WHO'S IMPLEMENTING IT: Norfolk, VA

INTENDED OUTCOME: Compensate landowners to limit development in vulnerable locations

STATUS: Aspirational



YELLOW

ADAPTING TO RISING WATERS

- Exploit new and innovative technologies to reduce flood risk to the built environment
- Focus infrastructure investments on improvements that extend resilience
- Educate residents about the risk of recurrent flooding
- Develop mechanisms to allow property owners to recoup economic value lost to water rise
- Develop a solution for sea level rise adaptation in historic neighborhoods



NORFOLKVISION2100

STRATEGY: Concentrate infrastructure in most resilient areas

WHO'S IMPLEMENTING IT: Norfolk, VA

INTENDED OUTCOME: Reduce public expenditure in vulnerable locations

STATUS: Planned

NORFOLKVISION2100

OPPORTUNITY.
COLLABORATION.
VISION.



Opportunity

The challenge of sea level rise provides opportunity to transform Norfolk into a resilient waterfront community

Collaboration

Collective brainpower drives adaptation solutions and new ways of thinking

Vision

Norfolk is THE coastal community of the future



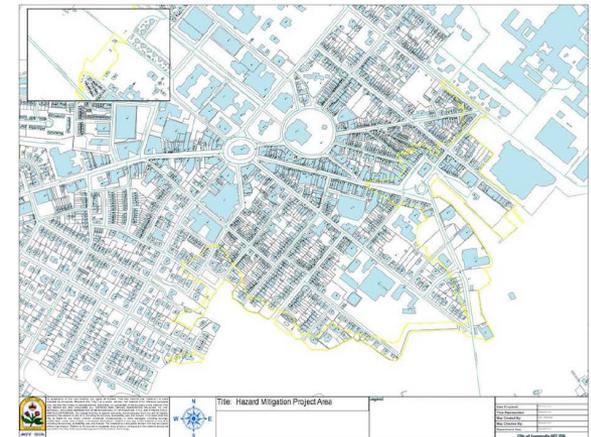
STRATEGY: Flood adaptation tax credit

WHO'S IMPLEMENTING IT: Annapolis, MD

INTENDED OUTCOME: Financial incentives to promote private-sector flood protection measures

STATUS: Planned

**WEATHER IT TOGETHER:
A Cultural Resource
Hazard Mitigation Plan**
for the
City of Annapolis



April 2018

STRATEGY: Special tax district

WHO'S IMPLEMENTING IT: San Francisco, CA

INTENDED OUTCOME: Restore wetlands

STATUS: Enacted

STRATEGY: Seize economic opportunities of emerging resilience-based industries

WHO'S IMPLEMENTING IT: Norfolk, VA

INTENDED OUTCOME: Creation of a Coastal Resilience Laboratory and Acceleration Center; new industries

STATUS: Planned



2100

DESIGNING THE COASTAL COMMUNITY OF THE FUTURE

- Focus major infrastructure investments in the most resilient areas
- Improve transportation connections
- Be a model for responsibly addressing resilience
- Create tools and incentives to develop a more resilient housing market
- Seize the economic opportunities of emerging resilience-based industries



NORFOLKVISION2100

STRATEGY: Voluntary climate change relocation

WHO'S IMPLEMENTING IT: Shishmaref, AK

INTENDED OUTCOME: Relocate entire community to preserve a unique dialect and culture of Inupiat Eskimo

STATUS: The community remains divided, process is ongoing.



STRATEGY: Empower vulnerable communities through local leaders

WHO'S IMPLEMENTING IT: Southeast Florida Regional CCC

INTENDED OUTCOME: Equitable climate policies and decisions

STATUS: Aspirational recommendation



SOUTHEAST FLORIDA
REGIONAL COMPACT
CLIMATE
CHANGE

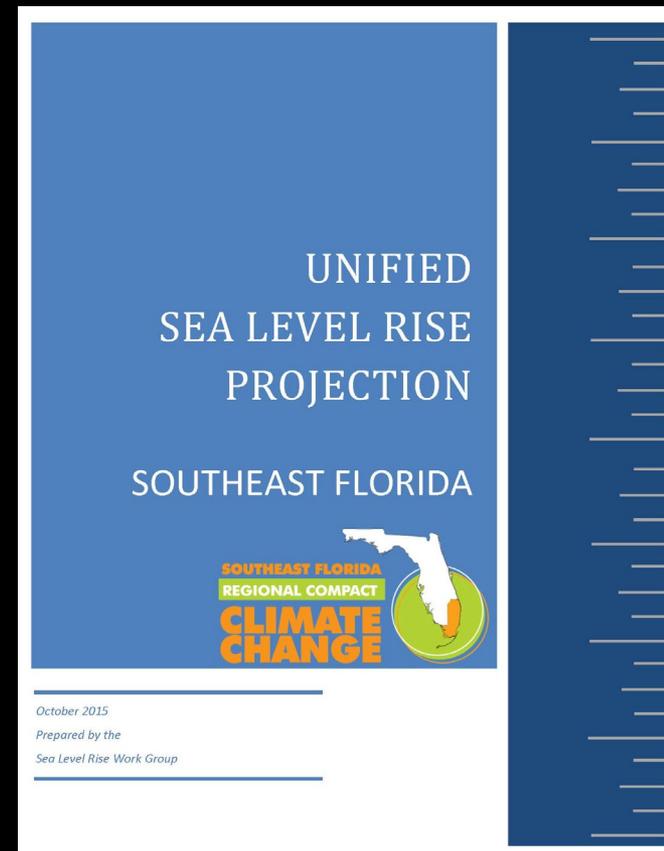


STRATEGY: Unified sea-level rise projections

WHO'S IMPLEMENTING IT: Southeast Florida Regional CCC

INTENDED OUTCOME: Coordinate climate mitigation/adaptation across county lines; implementation guidelines; shared best local practices; align with a regional agenda

STATUS: Adopted by 4 counties/ 35 municipalities so far



STRATEGY: Flood risk disclosure

WHO'S IMPLEMENTING IT: Durham, NH

INTENDED OUTCOME: Advise potential buyers about sea level rise risk and flood exposure potential

STATUS: Planned





NEXT STEPS

- Informant Interviews
- Refine Case Studies
- Report
- Identify Issues requiring additional research

“You feel an impotency in this, to not be able to protect the bones of your own ancestors...It hurts immensely.”



World Heritage and Tourism in a Changing Climate

