Innovative Strategies to Promote Resilience

the ability of a community to ‘bounce back’ after hazard events such as hurricanes, coastal storms, or flooding – rather than simply reacting to impacts.
WHO WE ARE
Promote responsible land-use policies:

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

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Strategies Typology
350 strategies
76 cities/regional areas
Illustrative - not exhaustive search
Categories: planning, regulatory, eco-based, economic, social, communications/outreach
First Step: Risk Assessment

- 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
**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
**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
Economic

**Strategy:** Concentrate infrastructure in most resilient areas

**Who’s implementing it:** Norfolk, VA

**Intended outcome:** Reduce public expenditure in vulnerable locations

**Status:** Planned
**Strategy:** Flood adaptation tax credit

**Who’s implementing it:** Annapolis, MD

**Intended outcome:** Financial incentives to promote private-sector flood protection measures

**Status:** Planned
**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
**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
**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
A Coordinated Approach

- Outreach
- Social
- Planning
- Regulatory
- Communicate
- Ecological
- Economic
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.”

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