

Building Vibrant Communities in a Time of Changing Climate

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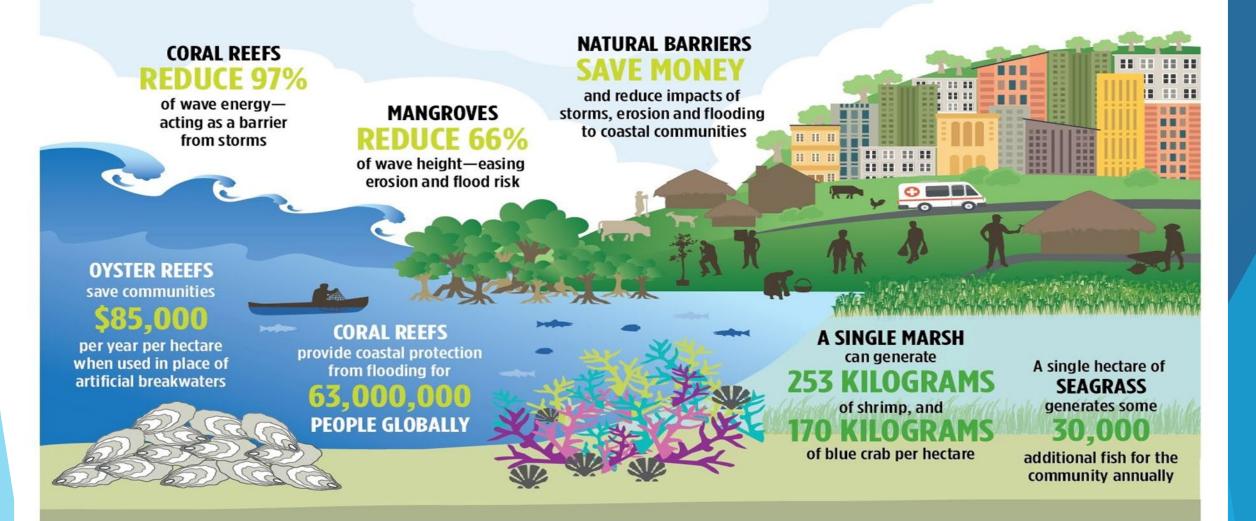
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Responding to Climate Impacts Natural and Nature-based Approaches - actions to protect, sustainably manage, or restore natural or modified ecosystems as solutions to societal challenges.

Vibrant Communities

- Define outcomes
- Resilient
- Safety from hazards: flooding, wave driven damage, pollution
- Connection to nature through open spaces
- Publicly accessible connection to Public Trust waters
- Strong locally based economy
- Affordability

NATURE PROTECTS PEOPLE



Wetland Restoration & Protection



Dunes



Greenways



Green Stormwater Infrastructure

Rain Gardens





Oyster Reefs and Offshore Structures







Blue Acres and Acquisition of Flood Prone Areas



Why Living Shorelines?

Primary reason = Shoreline stabilization

Secondary benefits:

- Flood mitigation
- Habitat
- Aesthetics
- Carbon sequestration
- Adaptability to changing conditions



NOAA - Beaufort



Examples



Marsh sills made of oyster shell bag, used with revegetation.

Coir logs







Prefabricated oyster reefs

Mesh bags of oyster shells piled to form a breakwater



Starting Presumptions

- Practices are established and proven
- Adaptation to impacts of climate change and mitigation of carbon pollution through natural and nature-based approaches can provide significant cobenefits
- Strategies must be part of a comprehensive response & must take place at an unprecedented scale think "space race"
- Connect people to nature key to vibrant communities

Challenges

- Many of the most vulnerable communities disadvantaged
- Governance framework plan, prioritize, focus areas
- Scale
- Offsetting continued sprawl and overdevelopment
- No consistent/stable public funding source

Opportunities

- Federal Bipartisan Infrastructure Act/Inflation Reduction Act funding
 - White House release of "Road Map for Nature-based Solutions to Fight Climate Change, Strengthen Communities and Support Local Economies" 11/08/22
 - FEMA Building Resilient Infrastructure and Communities (BRIC) grant program
 - Climate Ready Coasts Initiative (NOAA)
- Development/redevelopment ongoing
- Strong public consensus about need to act on climate
- Bills to expand Shore Protection Fund and create new funding in Legislature; Stormwater Utilities authorized
- Climate Change Resiliency Strategy and policies
- Resilient NJ program: planning at regional scale

Thank you

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