



# Restoring Habitat and Community Connectivity through Innovative Partnerships

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[www.littoralsociety.org](http://www.littoralsociety.org)

[www.RestoreNJBayshore.org](http://www.RestoreNJBayshore.org)

[www.WreckPond.org](http://www.WreckPond.org)



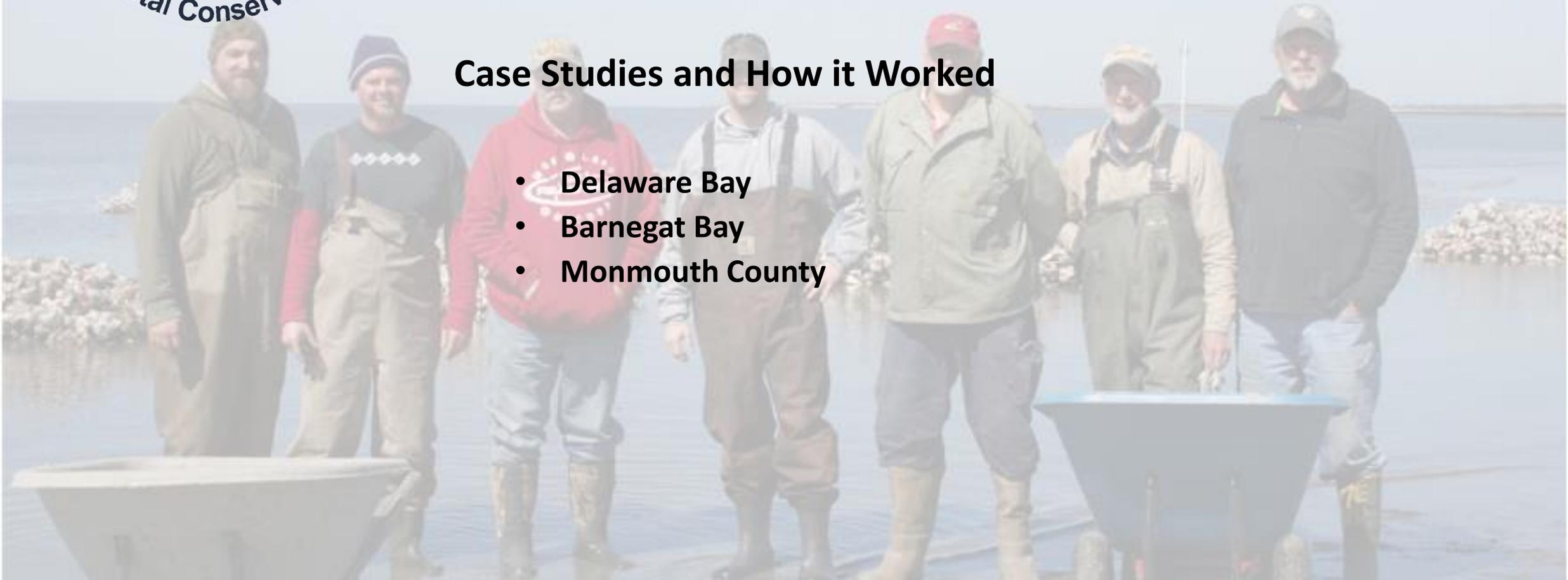
# Innovative Partnerships

## What is a Public/Private Partnership

- Benefits

## Case Studies and How it Worked

- Delaware Bay
- Barnegat Bay
- Monmouth County



# Public/Private Partnership

## **A partnership of:**

- 1) Federal, State, County, Municipal entities
- 2) NGOs and Non-Profits
- 3) Educational Institutions
- 4) Private Businesses
  - Engineering Firms
  - Construction Companies
  - Nurseries
- 5) Community

**Benefits – Individual Ownership, Community Stewardship and Pride, Project Cohesiveness, Common Goals**

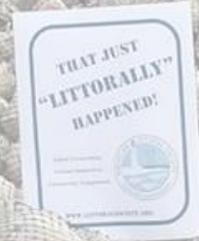
# Delaware Bay Restoration Projects

- 2.74 Miles of Beach Restored (56.5 acres)
- 2,051 Tons of Rubble Removed
- 200,996 Cubic Yards of Sand Trucked and Placed
- 4 of 5 Intertidal Oyster Reefs (1,610 lf)
- Delaware Bay Sediment Transport Analysis
- Tool (D.B.S.T.A.T.)
- 14,550 horseshoe crabs tagged



# Delaware Bay Resiliency Restoration Projects

- **Open Communication**
  - Established Core Team
  - Calls weekly throughout life of project between core partners
  - Periodic focus groups with stakeholders
  - Funder Coordination and Progress Reports
  - On-site Supervision
  - Outreach
  - US Military Veterans Program



# Delaware Bay Resiliency Restoration Projects

- **Core Partners**
- Conserve Wildlife Foundation of New Jersey
- Stockton University Coastal Research Center
- L/Niles and Associates
- USFWS
- **Other Partners**
  - USACE
  - NJDEP and NJDFW
  - H4/Wickberg Marine/Mosquito Commission
  - Sand Companies and Cape May Salts Oyster
  - Downe, Maurice River, Middle Townships
  - PSE&G
  - Cape May Refuge
  - Manomet, Delaware River Keeper, Wetlands Institute, Citizen Racecar

**Funding provided by** National Fish and Wildlife Foundation, Department of Interior (US Fish and Wildlife Service), William Penn Foundation, Geraldine R. Dodge Foundation

# Barnegat Bay Restoration Projects

- Slade Dale Living Shoreline
  - Christmas Trees
- Oyster Reef Restoration
  - 2015 - set 1.5 million larvae (22,000 survived)
  - Created 1-acre of sub-tidal oyster reef
  - 2016 - set 2.8 million larvae (75 Bushels)
  - Placed 163,200 oyster spat on the reef site (quadrupled results from 2015 and 7x more oysters) – 240,000 at LEH (Stockton University)
  - Added 12 restaurants to recycling program
  - Continued Bags on the Bay, Spat Tank events, and Parade of Boats





# Barnegat Bay Oyster Restoration Projects

## **Core Partners**

Stockton University

Monmouth University

Parsons Mariculture, LLC

ReClam the Bay

Berkeley and Ocean Gate

Good Luck Point Marina

## **Funding provided by**

NOAA (CWF)

Barnegat Bay Partnership

Jenkinson's Aquarium



# Monmouth County Restoration Projects

- Wreck Pond Fish Passage
  - The ultimate “model”
- Living Shorelines
  - Fair Haven Living Shoreline
  - Bradley Beach Maritime Forest
  - Bradley Beach Dunes
  - Sylvan Lake Living Shoreline



# Wreck Pond Fish Passage

- Construct a 600' 5'x 5' by 8' culvert for fish passage
- Monitoring
- How we did it
  - Held monthly pre- and post construction project meetings with:
    - **USFWS**, USACE, NJDEP, Monmouth County, Kean and Rible representatives, Spring Lake, Sea Girt, Avakian, Najarian
  - Provided updates at monthly County Public meetings
  - Met weekly during construction (rotate teleconference and on-site)
    - Simpson and Brown Updates
  - Open Communication throughout
  - Frequently on-site
  - Blogs



# Results

*Basically, what came from the devastation of Hurricane Sandy was our [Spring Lake's] ability and the ability of all government agencies involved to include Federal, state, county, local, and non-profits to collaboratively address community needs and work together to quickly find solutions that would improve the resiliency of the communities associated with Wreck Pond and maximize benefits from governmental funding. We were able to plan, fund, and implement a restoration project that helped people, improved agency interaction, and allowed for common goals to be reached more efficiently and effectively.” - Spring Lake Borough Administrator Bryan Dempsey.*

# *Living Shorelines in Monmouth County*

- **Fair Haven** – Beach, Dune, and Coastal Bluff
  - NOAA Coastal Resiliency Grant – Stevens Institute and the Nature Conservancy
  - Partnership with municipality
  - Shared services with Monmouth County
  - Funding Federal and private

## **Bradley Beach**

Maritime Forest – NJCWRP, USACE, Bradley Beach, Monmouth County, AECOM, Rutgers University, Master Gardeners, Surfrider (Sustainable New Jersey)

Sylvan Lake – Bradley Beach, Avakian

Dunes - Bradley Beach, Surfrider

Having a  
public/private  
partnership that stays  
in communication  
regularly is key to  
project success

# Thank You

**For More Information**

[www.LittoralSociety.org](http://www.LittoralSociety.org)

**Project Websites**

[www.RestoreNJBayshore.org](http://www.RestoreNJBayshore.org)

[www.WreckPond.org](http://www.WreckPond.org)

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