EPA SNEP PROJECT

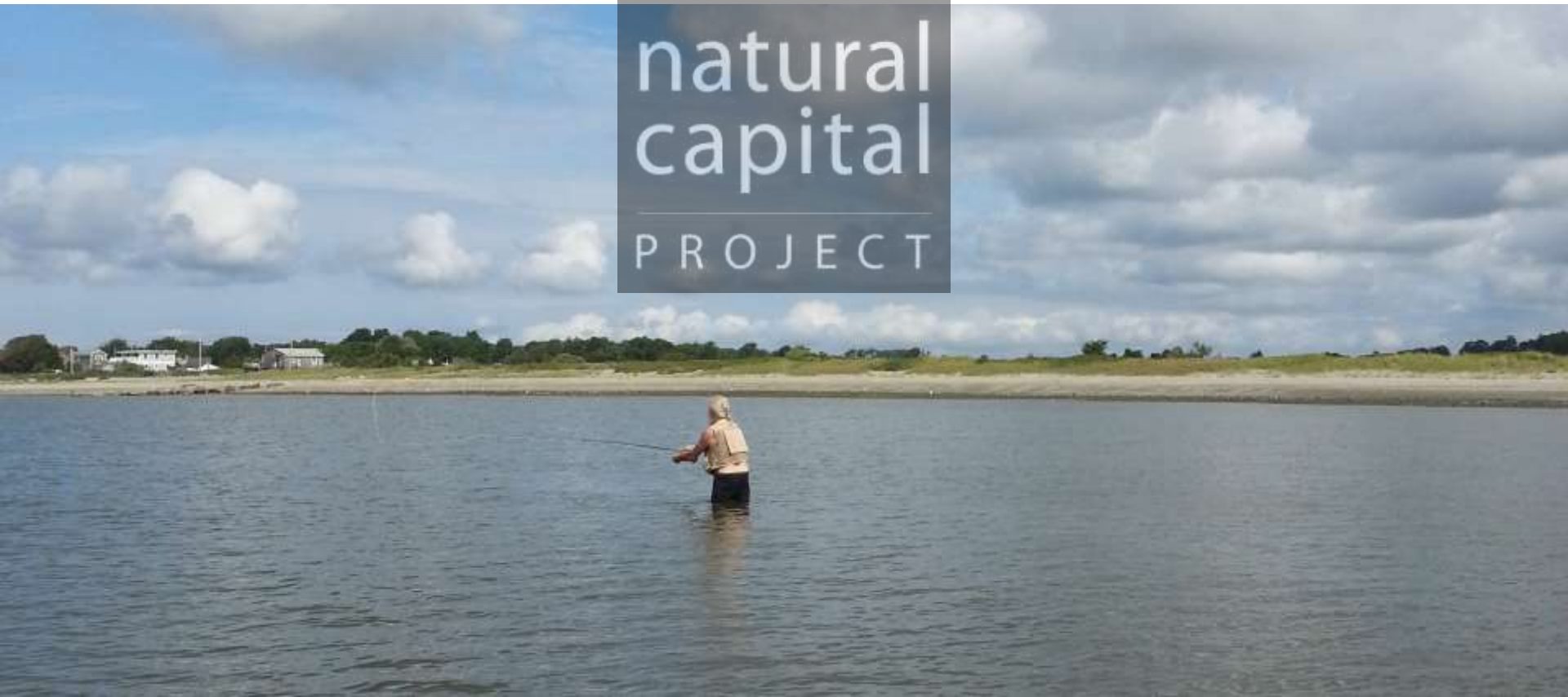
Integrating Ecosystem Services Functions and Values into Land-Use Decision Making in the Narragansett Bay Watershed

Stanford Woods Institute for the Environment

WWF

The Nature Conservancy

Institute on the Environment
University of Minnesota
Driven to Discover℠



OUR THEORY OF CHANGE

Advance science of ecosystem services

Create user-friendly approaches & tools

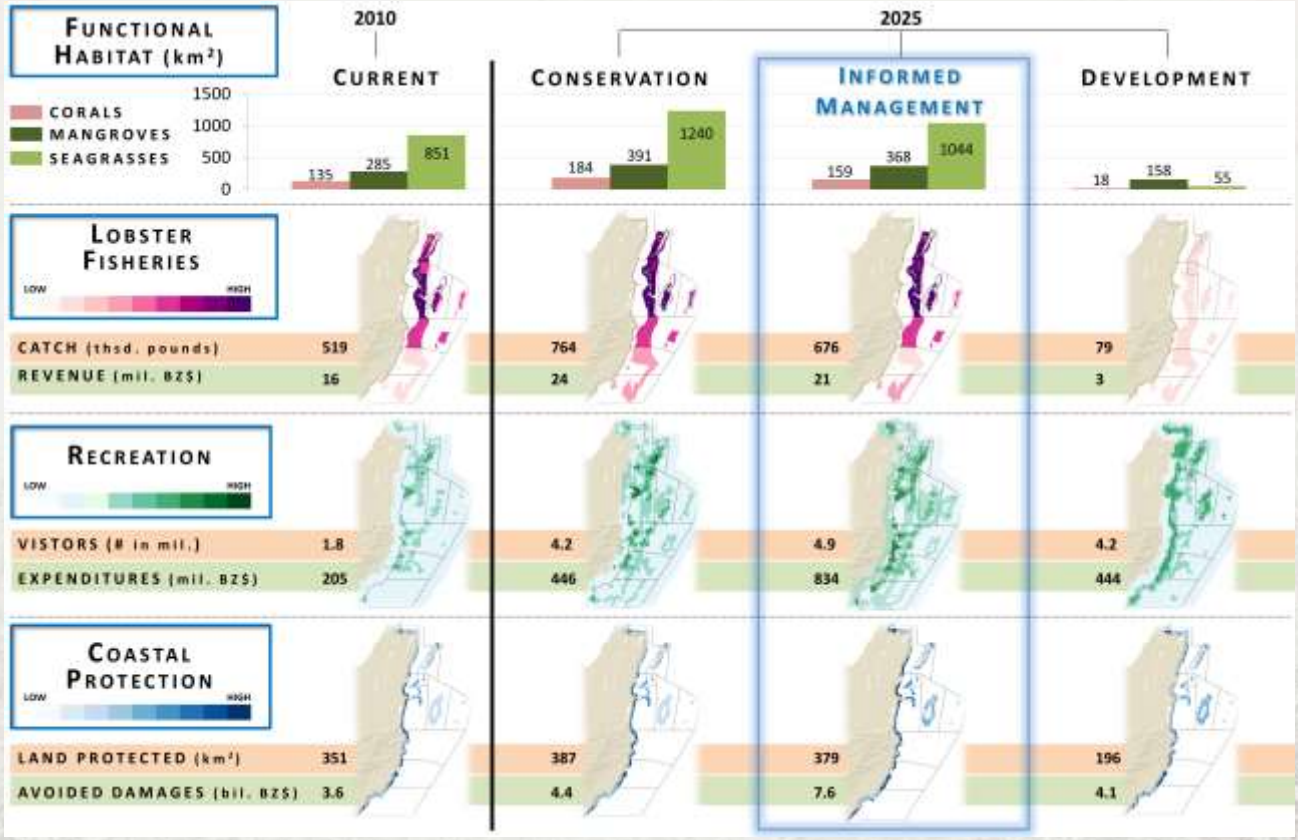
Build and tell success stories

Get information about natural capital into decisions

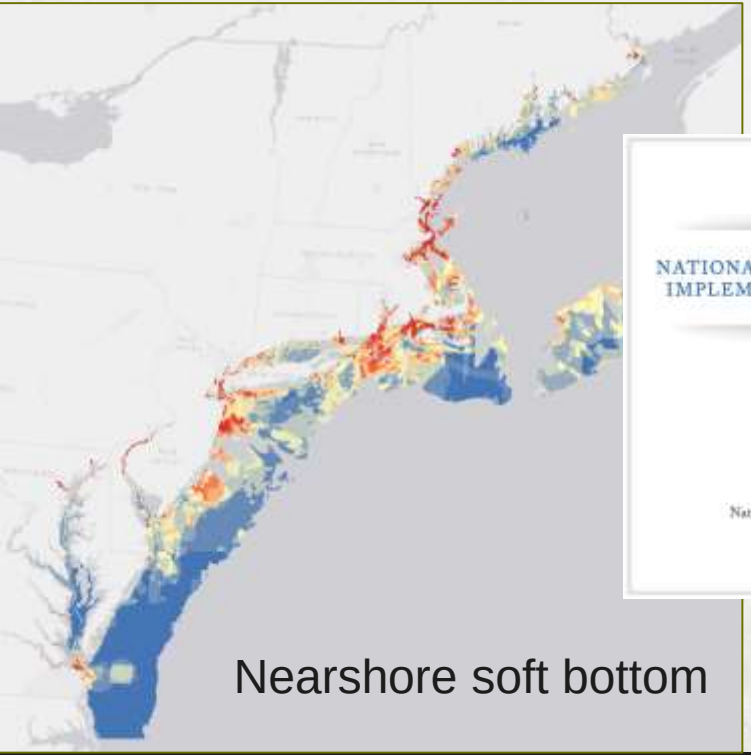
Make decisions with better outcomes for people and nature

EXAMPLES

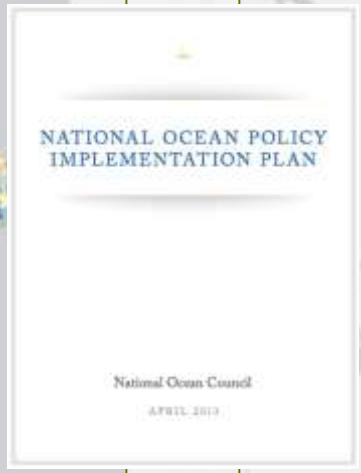
BELIZE INTEGRATED COASTAL ZONE MANAGEMENT PLAN

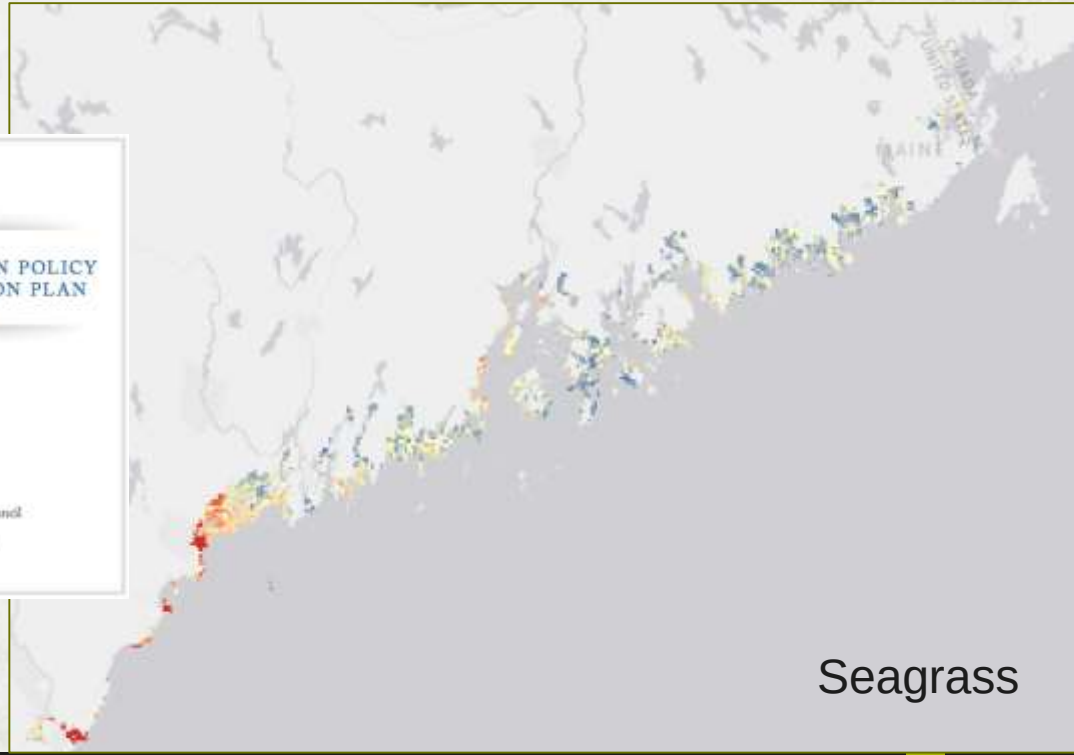


EXAMPLES
HABITAT RISK ASSESSMENT



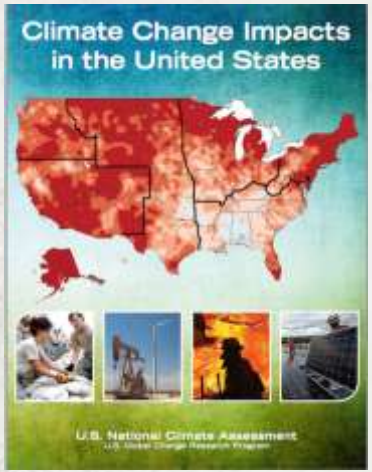
Nearshore soft bottom

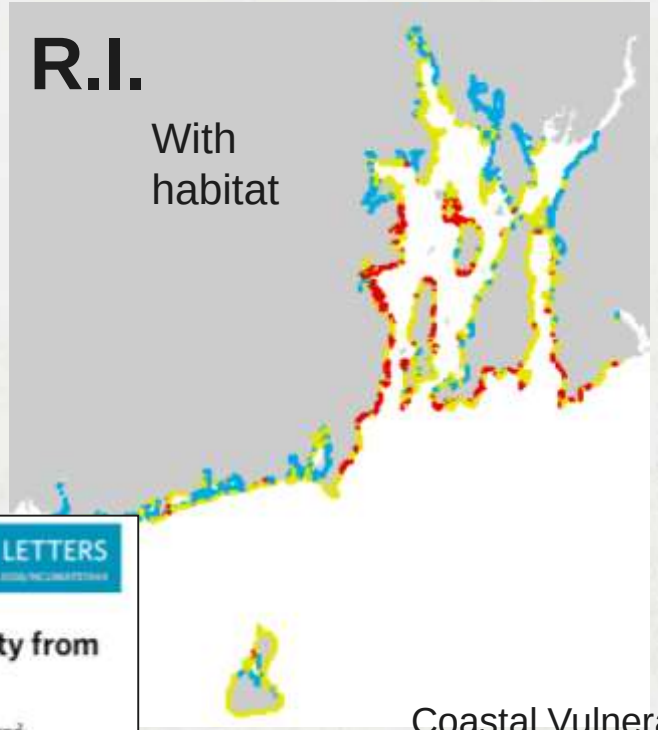


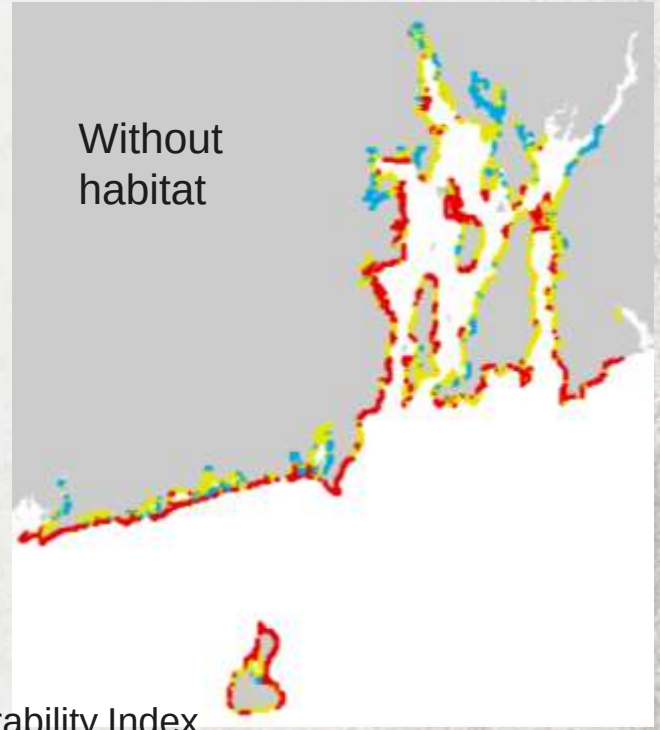


Seagrass

EXAMPLES





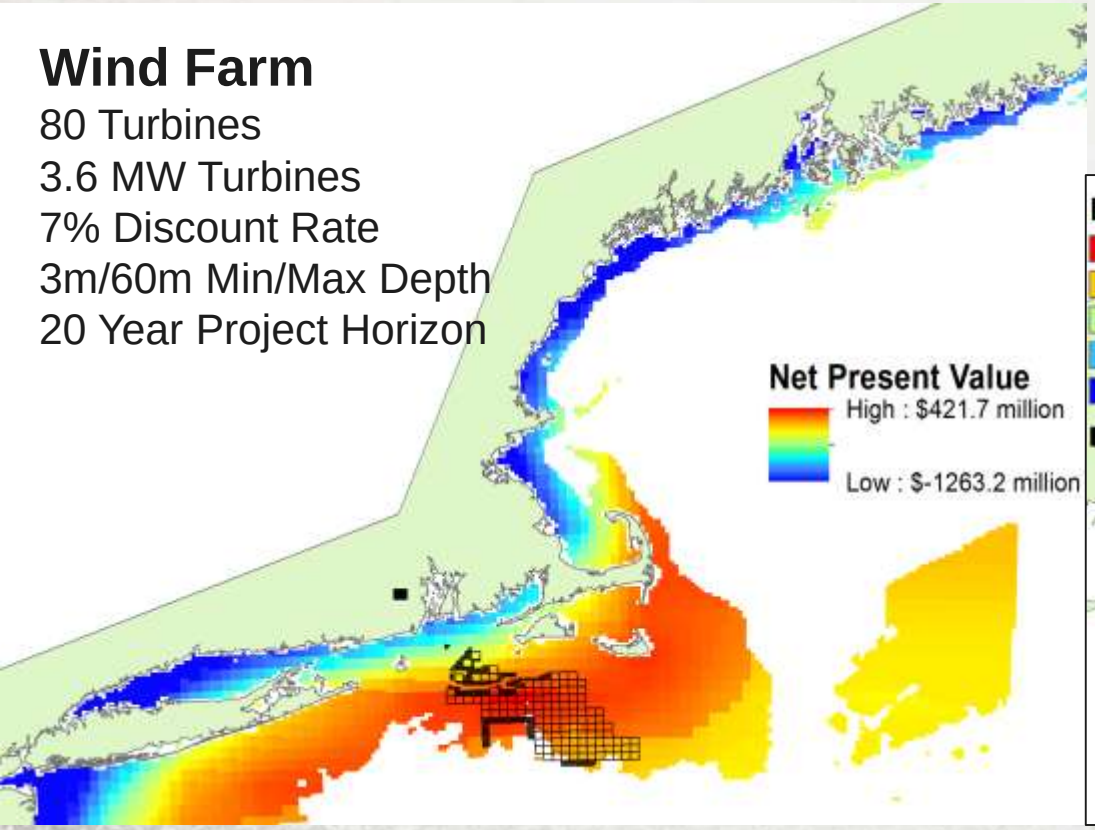


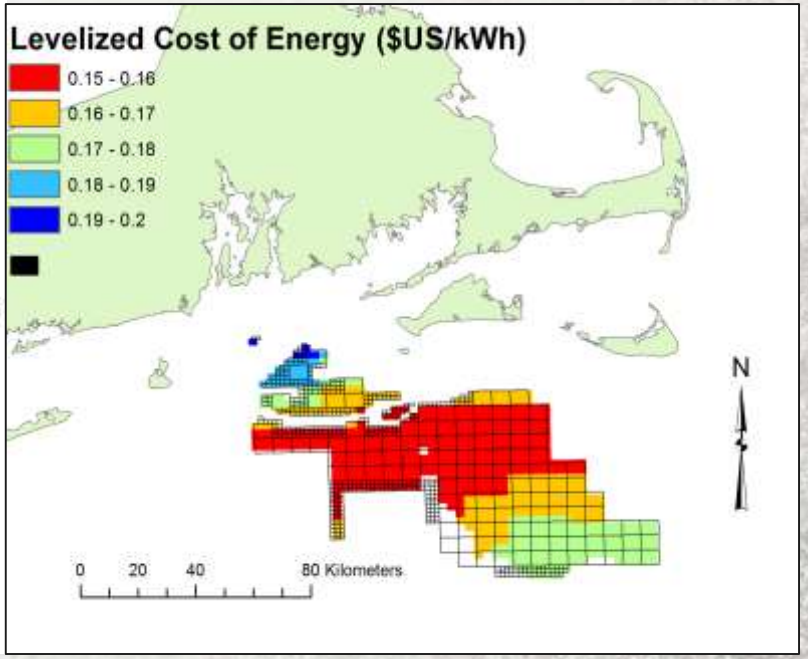
Coastal Vulnerability Index

Highest Intermediate Lowest

EXAMPLES
OPTIMAL SITING DECISIONS

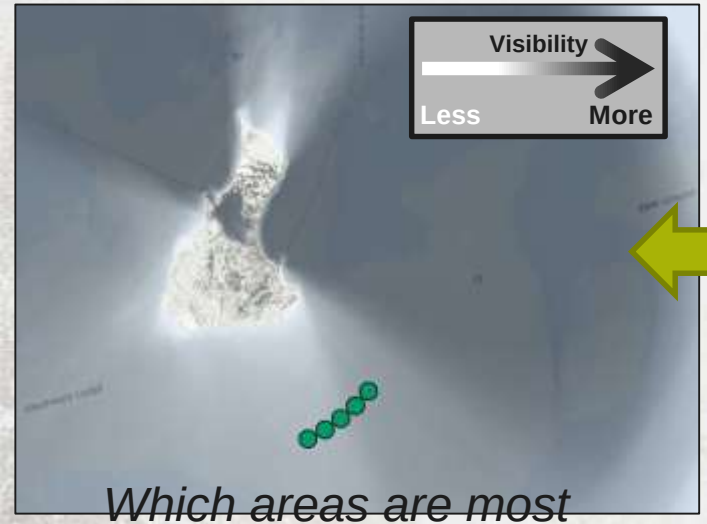
Wind Farm
80 Turbines
3.6 MW Turbines
7% Discount Rate
3m/60m Min/Max Depth
20 Year Project Horizon



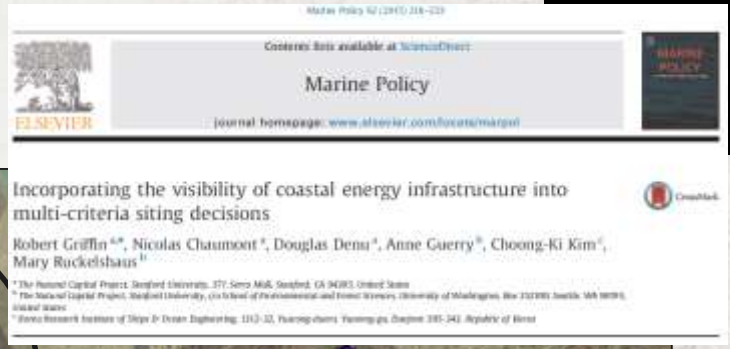


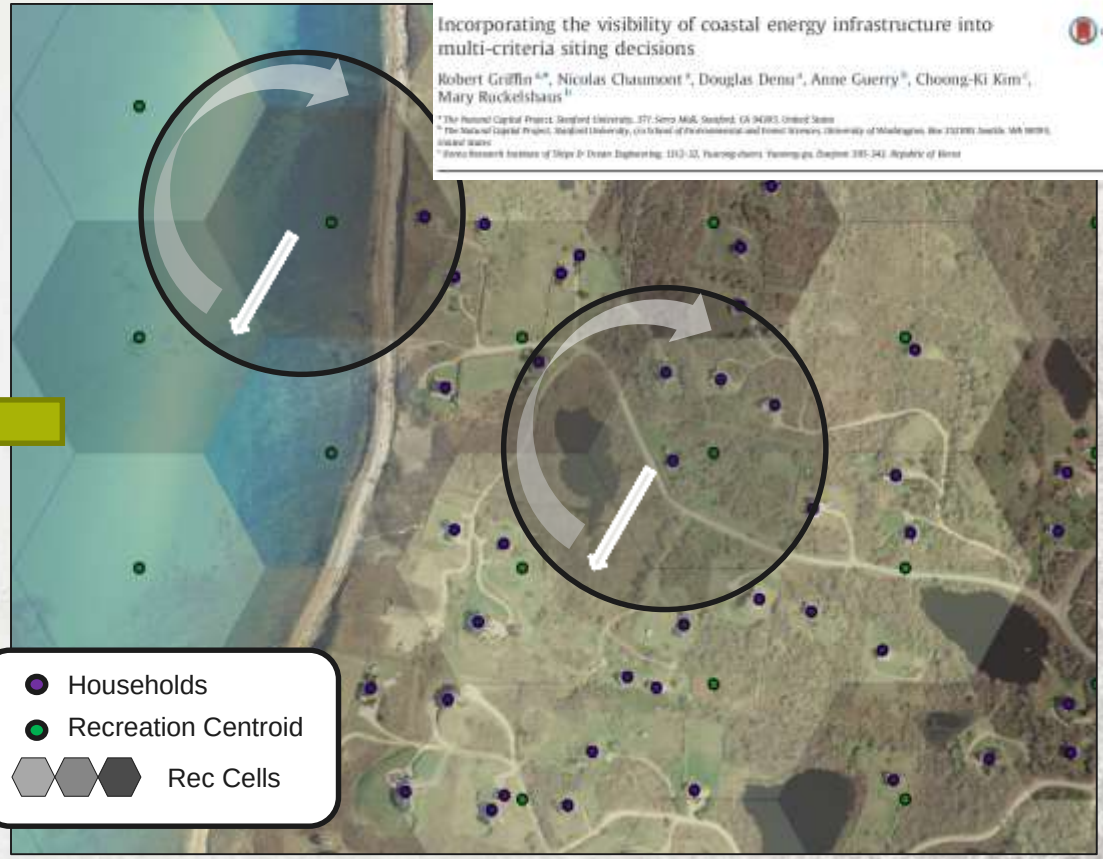
EXAMPLES

Visibility derived from E-911 and social media data



Which areas are most visible? How many people are impacted by the siting of a visual (dis)amenity?


Marine Policy
Incorporating the visibility of coastal energy infrastructure into multi-criteria siting decisions
Robert Griffin, Nicolas Chaumont, Douglas Denu, Anne Guerry, Choong-Ki Kim, Mary Ruckelshaus



Production function models

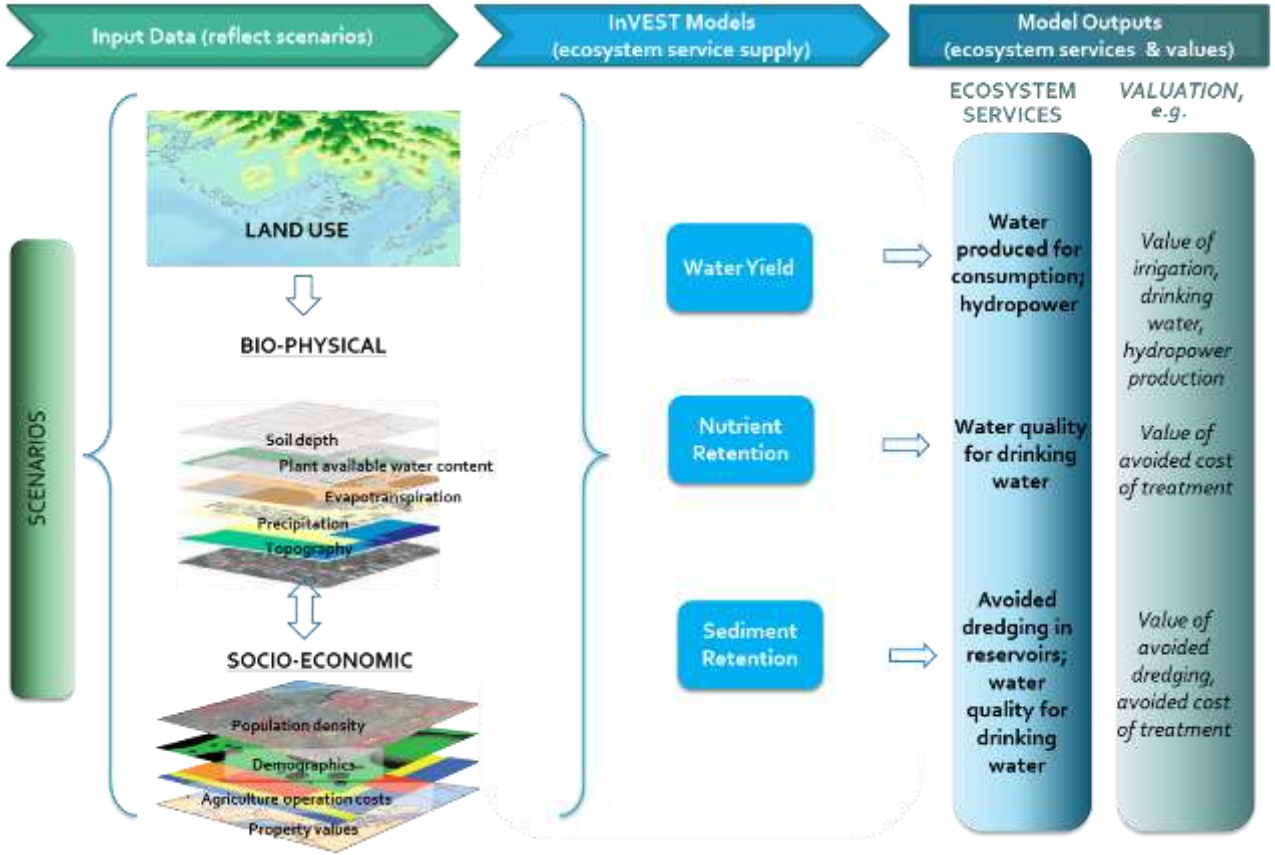
changes in ecosystems →
changes in ecosystem services →
changes in benefits to people

Free & open source

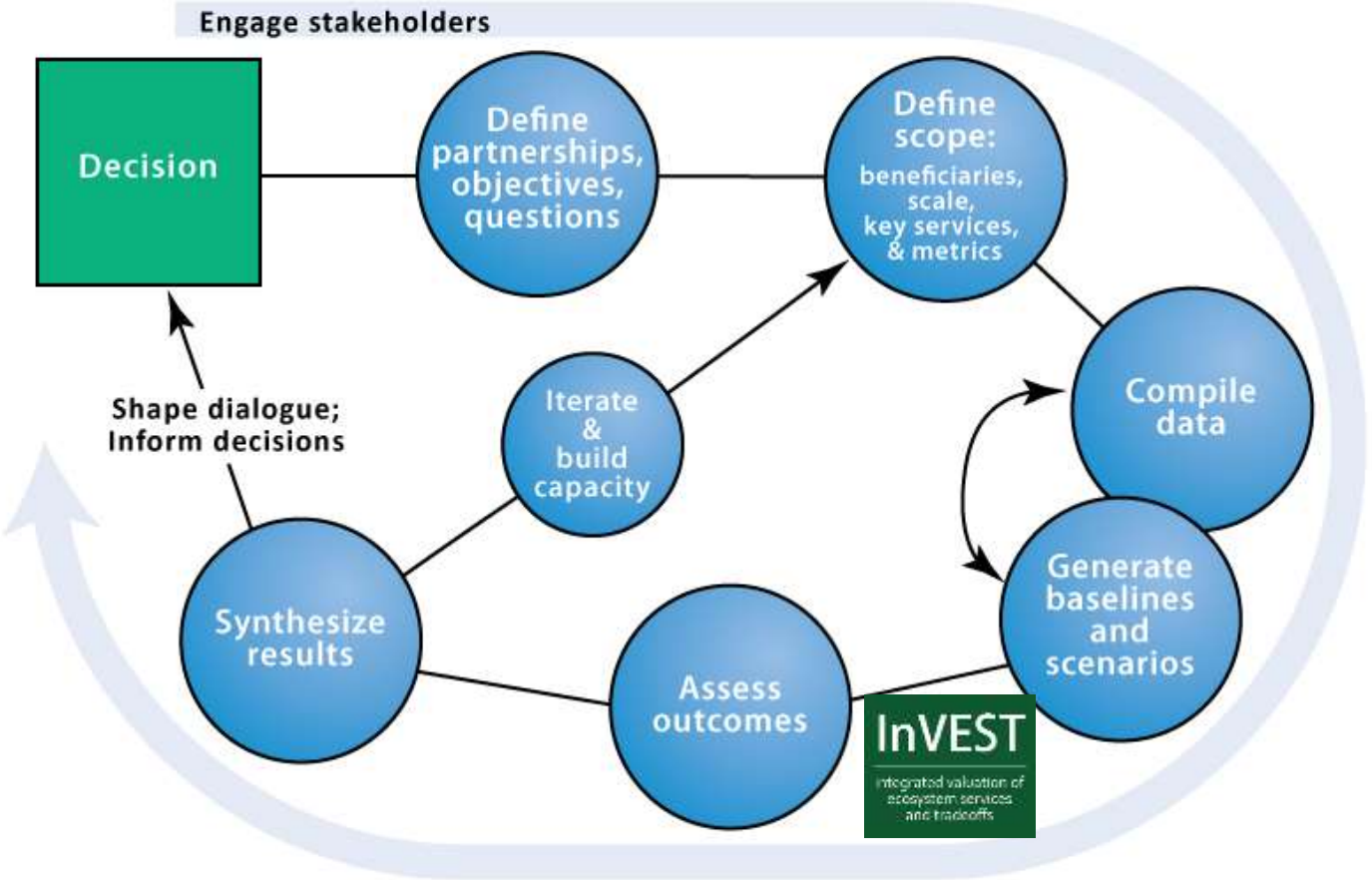
INVEST & SCENARIOS

InVEST

integrated valuation of ecosystem services and tradeoffs



NatCap – Engagement



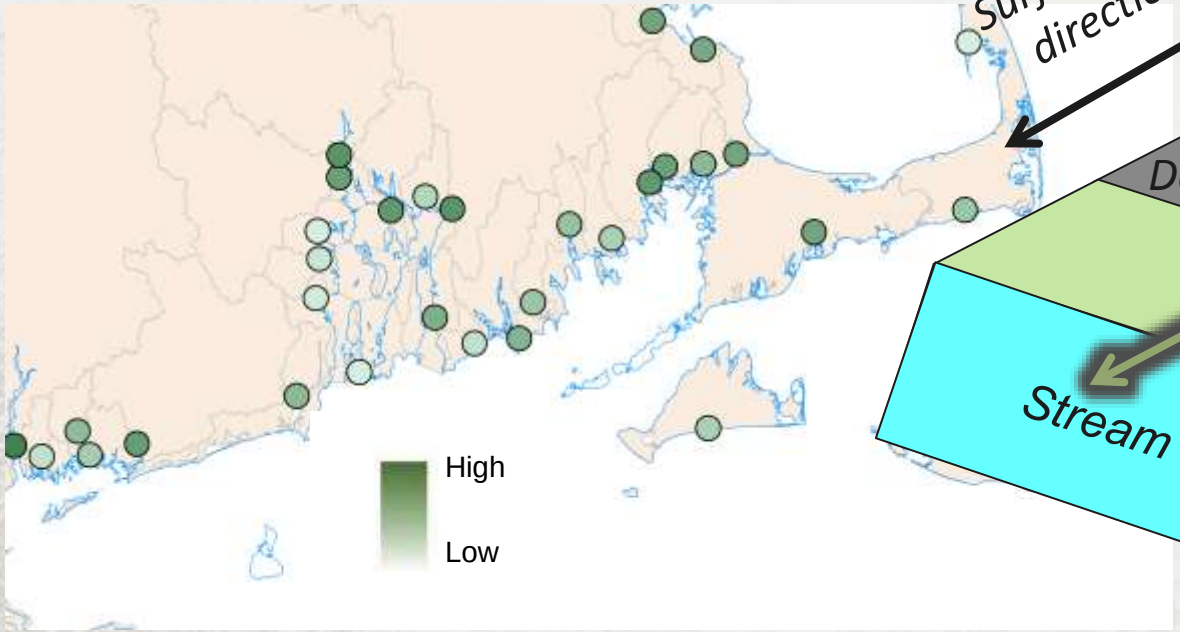
SNEP PROJECT
QUICK FACTS

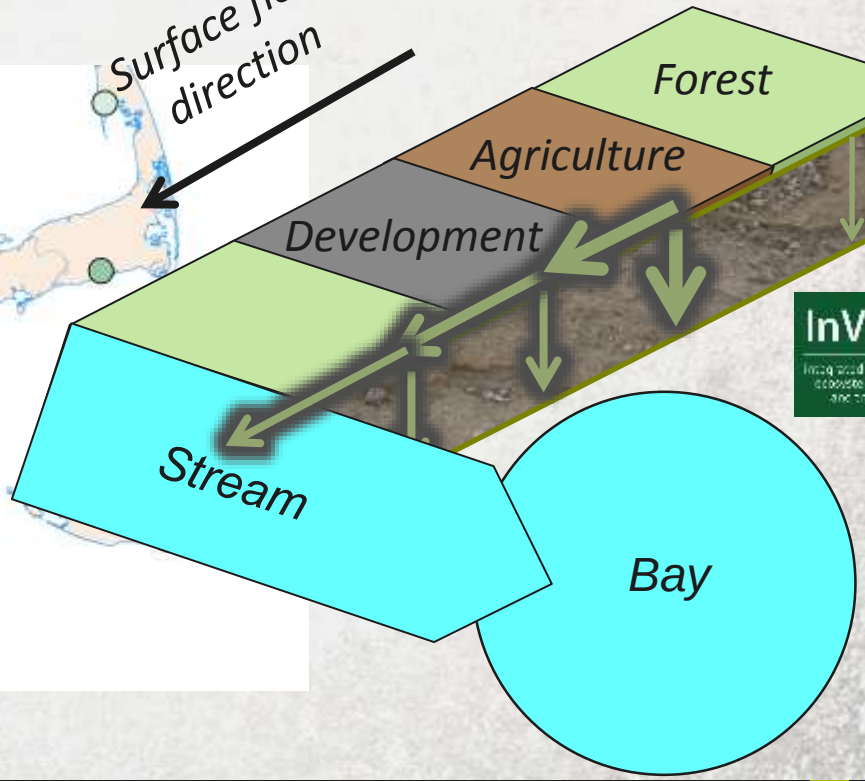
Project team

SNEP PROJECT
QUICK FACTS

Nutrients/Sediment

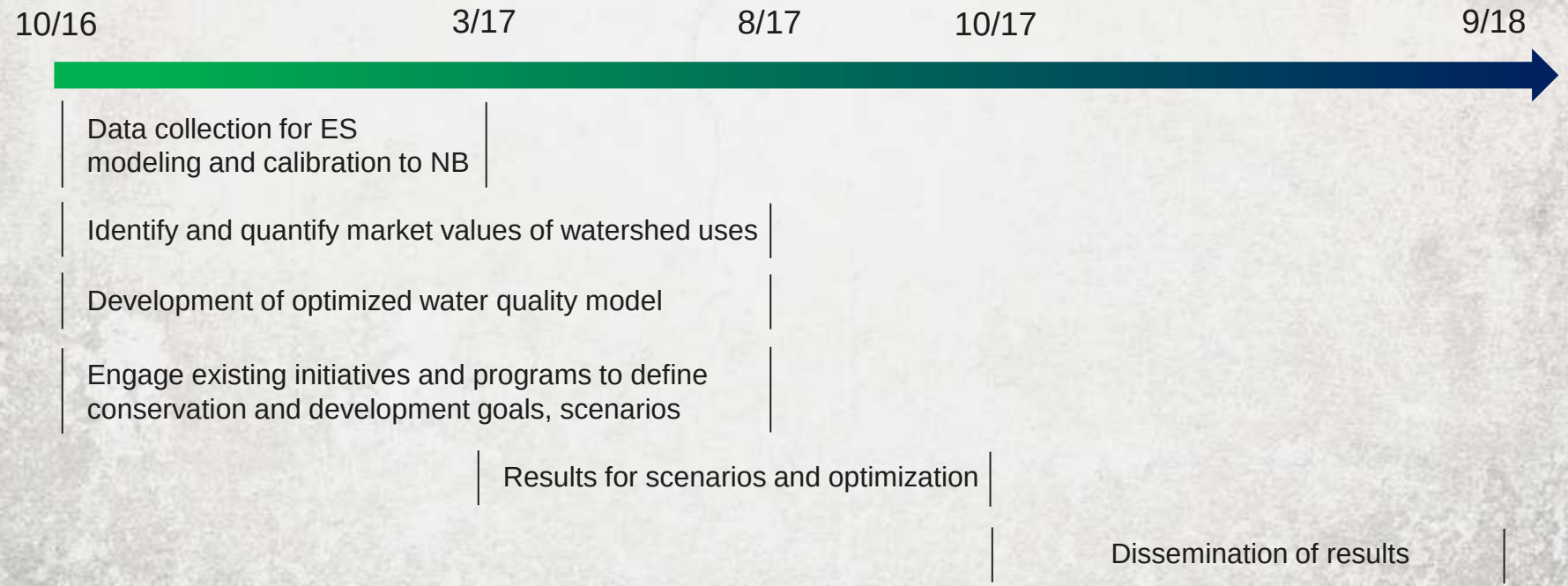
Scope





SNEP PROJECT
QUICK FACTS

Timeline



SNEP PROJECT
QUESTIONS FOR YOU

What are you most interested in? In terms of:

- Modeling and outputs
- Scenarios

What are you lacking to make land use decisions in your community?