





EPA SNEP PROJECT

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







INSTITUTE ON THE ENVIRONMENT

UNIVERSITY OF MINNESOTA Driven to Discover**

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OUR THEORY OF CHANGE

natural capital

Advance science of ecosystem services

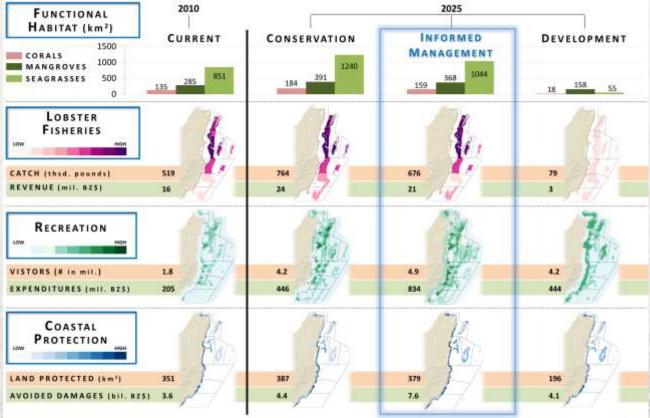
Create user-friendly approaches & tools

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

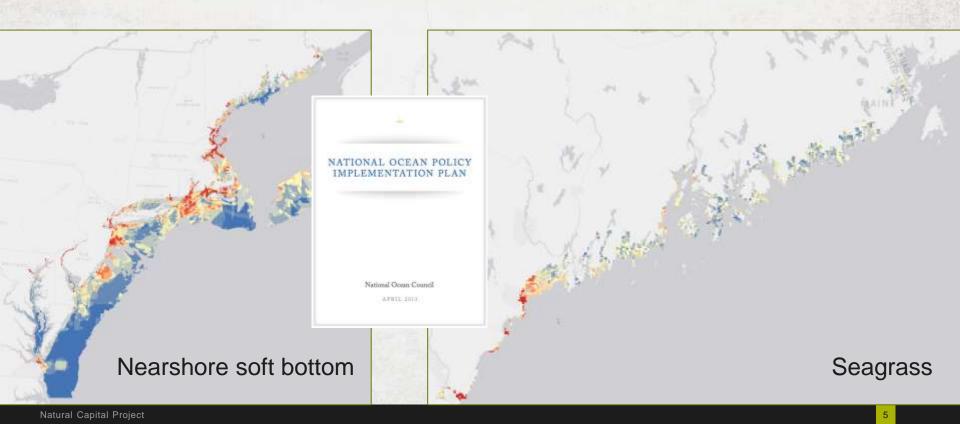


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EXAMPLES HABITAT RISK ASSESSMENT





nature

Coastal habitats shield people and property from sea-level rise and storms

U.S. National Climate Assessment

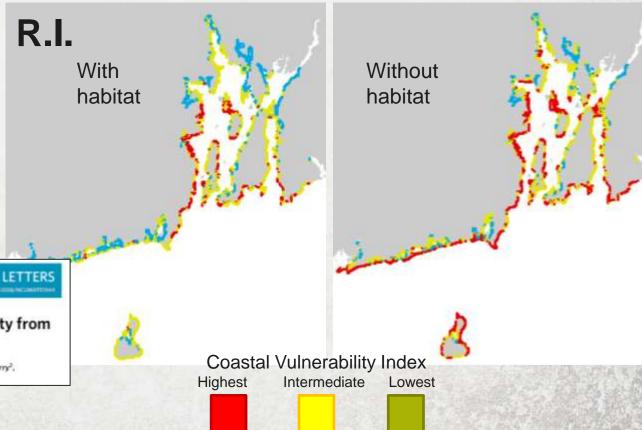
Katie K. Arkema¹*, Greg Guannel², Gregory Verutes³, Spencer A. Wood², Anne Guerry², Mary Ruckelshaus³, Peter Kareiva⁴, Martin Lacayo³ and Jessica M. Silver²

climate change National Society of Manager Society

EXAMPLES

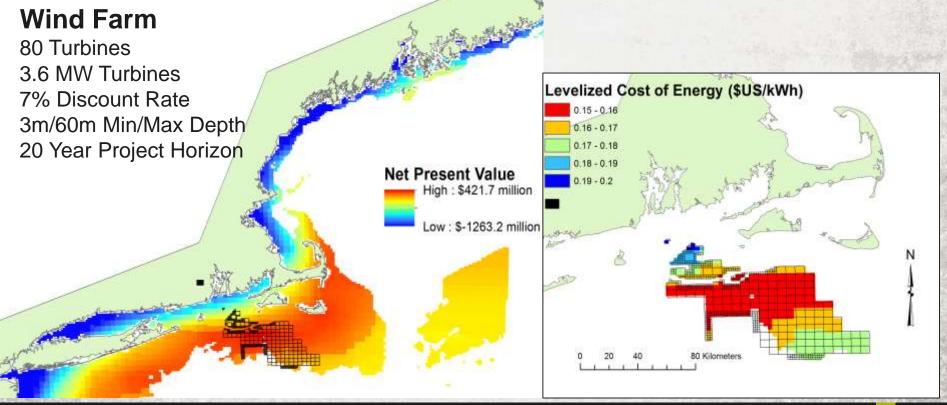
Climate Change Impacts in the United States





EXAMPLES OPTIMAL SITING DECISIONS





EXAMPLES



Martes Policy NJ (2000) 218-229

Control for coalder a ScienceDiret Marine Policy



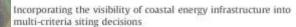
Visibility derived from E-911 and social media data

Visibility

More

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





Robert Griffin 4*, Nicolas Chaumont *, Douglas Denu*, Anne Guerry*, Choong-Ki Kim*, Mary Rockelsbaus*

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* The National Capital Project, Nandord Undersky, Cold fand of Professional and Forset Revenue, Thiornally of Washington, Bio 202193, June 16, WA 19299, Marked Paper

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Production function models

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

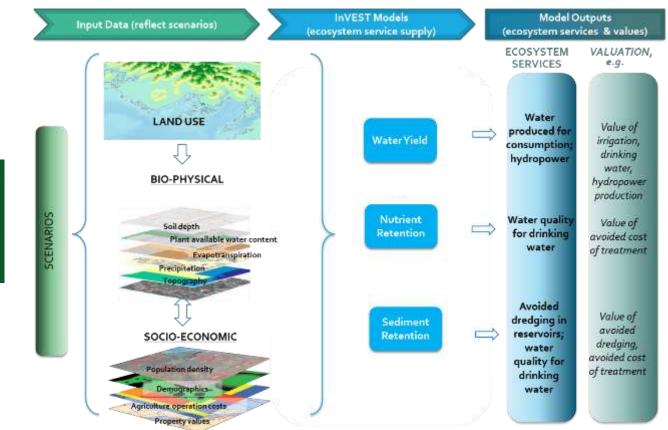


InVEST

integrated valuation of ecosystem services and tradeoffs

Free & open source

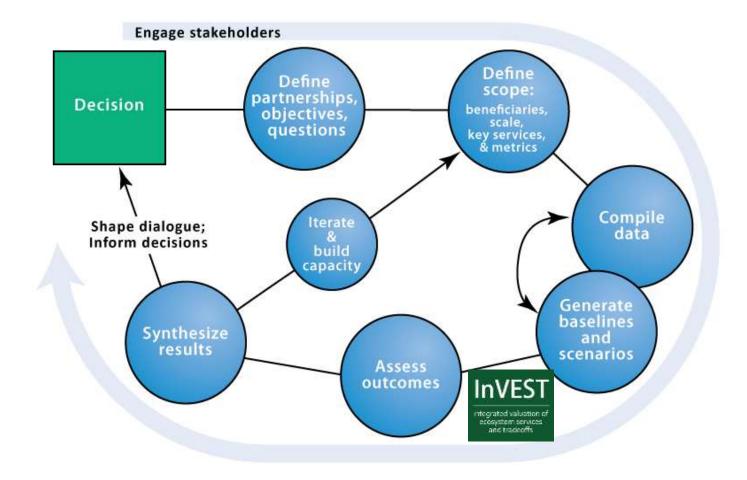
INVEST & SCENARIOS



InVEST

integrated valuation of ecosystem services and tradeoffs

NatCap – Engagement



SNEP PROJECT QUICK FACTS

Project team

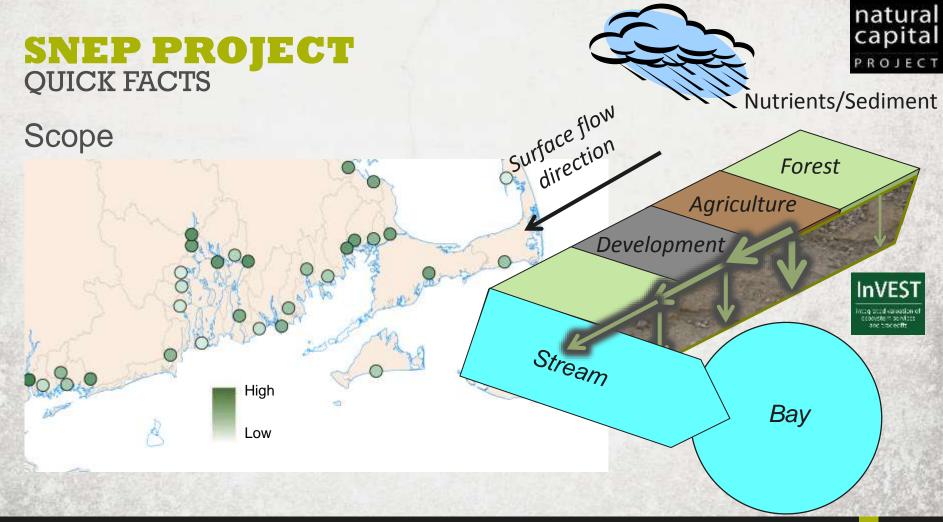


THE UNIVERSITY OF RHODE ISLAND COLLEGE OF THE ENVIRONMENT AND LIFE SCIENCES









SNEP PROJECT QUICK FACTS



9/18

Т	imeline				
10/16		3/17	8/17	10/17	
	Data collection for ES modeling and calibration to NB				
Identify and quantify market values of watershed uses Development of optimized water quality model					
	Engage existing initiatives and programs to define conservation and development goals, scenarios				
		Results	for scenarios and opt	imization	



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?



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