Marine Planning

- TNC has developed marine spatial plans for 12 years in 15+ regions in US, Caribbean, S. America & Asia-Pacific plans & data made widely available & published in peer review journals
- TNC developing marine multi-objective approaches account for conservation, coastal hazard, fishery & energy objectives (e.g., http://marineplanning.org)
- Has developed interactive decision support for including climate factors into planning (www.coastalresilience.org)
- Developed Best Practices for MSP advice
 (http://www.nature.org/initiatives/marine/files/msp best practices.pdf

MarinePlanning.org



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Case Studies

St. Kitts and Nevis
Marine Zonina

Venezuela Energy Development

- Assessing Biodiversity
- Assessing Energy Development

Planning for Multiple Objectives

- Case 1: PDVSA
- Summary
- USA Gulf of Mexico Coastal Hazards
- USA West Coast Fisheries
- USA Pacific NW Land-Sea Integration
- Resources

PLANNING FOR MULTIPLE OBJECTIVES

Balancing Oil Development with Biodiversity Protection

In anticipation of the plar of the potential risks to V Nature Conservancy and Science at Simón Bolívar L conservation of marine bi used by the energy indus identified for conservation

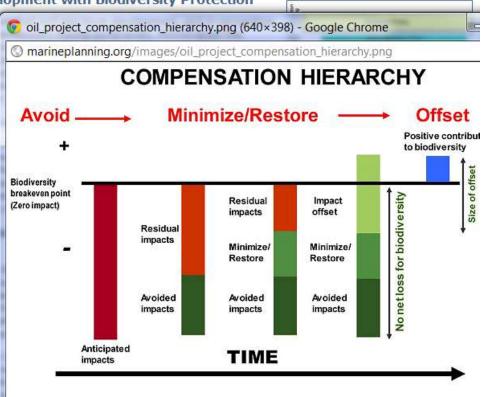
Science-Based Col

This study of priorities for involved more than 30 Ve use expertise. The study The Nature Conservancy Energy and Biodiversity It and energy firms to make

Environmental Sta and Gas Lessee

Through this partnership, proposed a set of conser to be incorporated into the lease, and they identified addition to government e PDVSA will include these

In Venezuela, The Nature used a compensation hie — as a framework for add and gas development prooption is to avoid impacts then environmental practimpacts, and ecological reminimization, and restoranet environmental impact

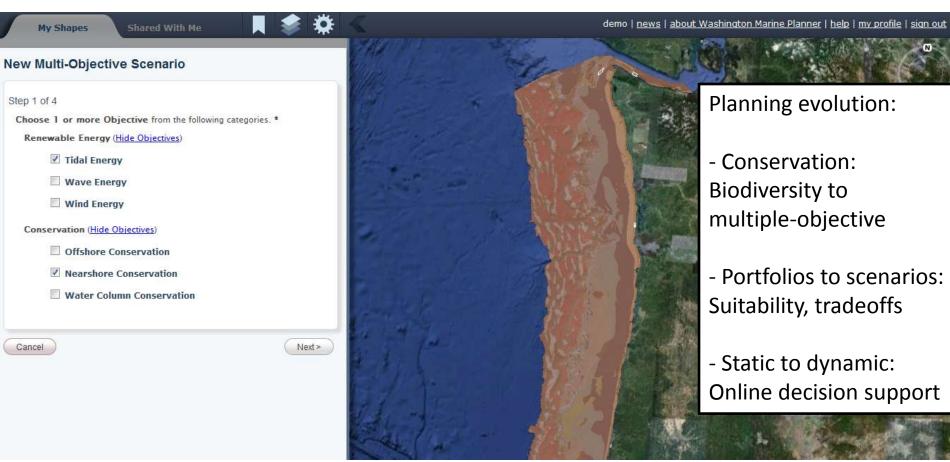


Marine Spatial Planning

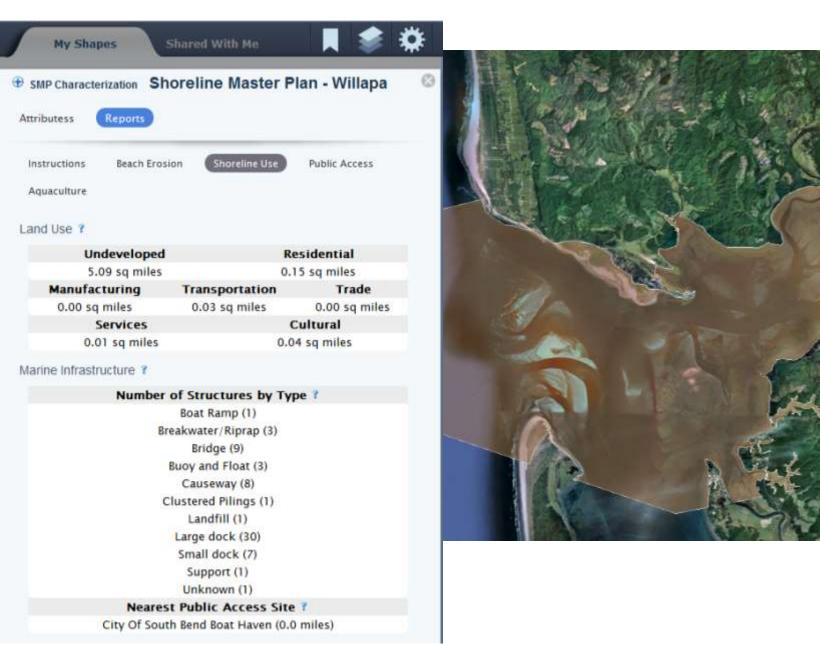
- Marine spatial planning (MSP) is a process to develop a blueprint for area-based management that accounts for multiple management objectives
- Three examples
 - Washington (State legislation)
 - Mid-Atlantic (Regional Council)
 - New York/Connecticut (local planning)

Washington Marine Planner

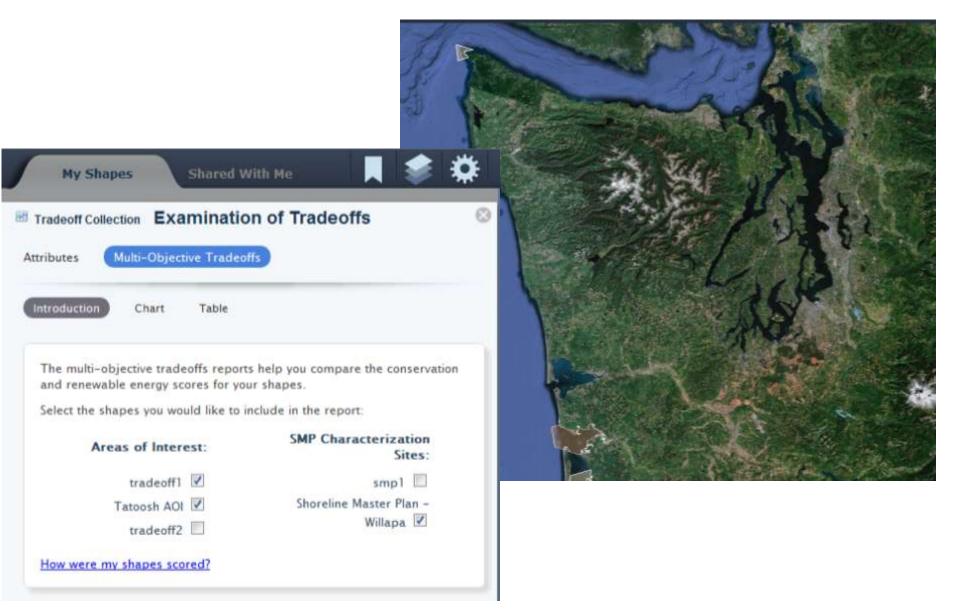
washington.marineplanning.org



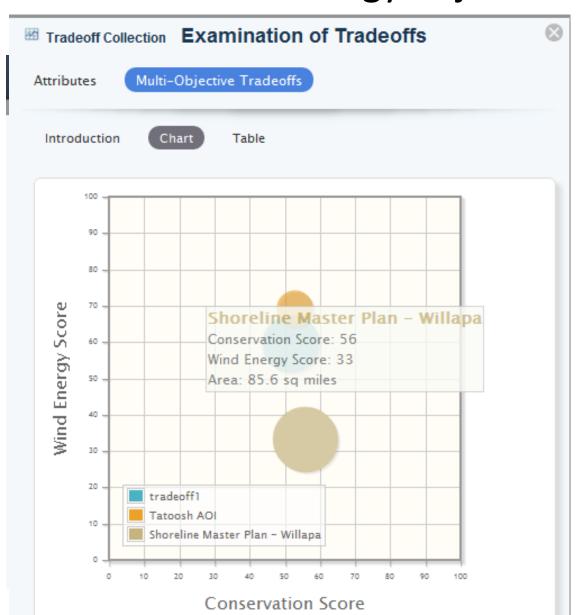
Shoreline Master Plan characterization

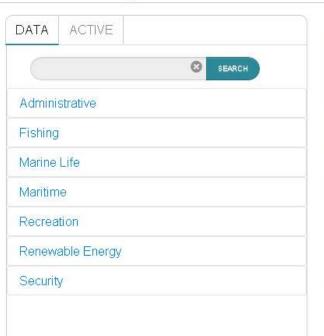


Trade off analysis Conservation and Energy objectives

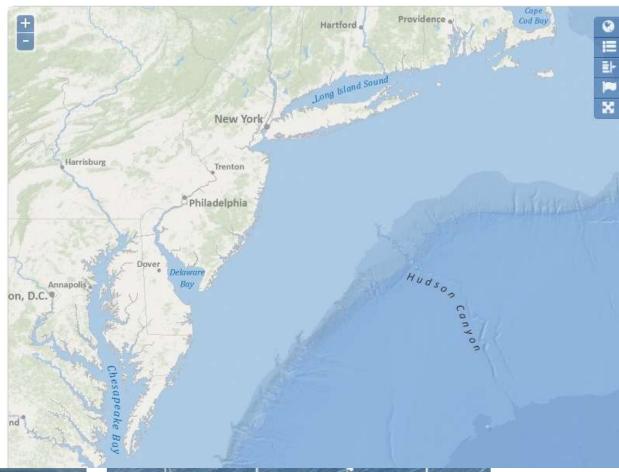


Trade off analysis Conservation and Energy objectives





MARCQ







Visualizing coastal impacts, planning wisely for the future, and making smart choices today



coastalresilience.org

Incorporating coastal hazards into planning for climate adaptation



Decision Support





Geographies

COASTAL RESILIENCE Adapting Natural and Human Communities to Sea Level Rise and Coastal Hazards

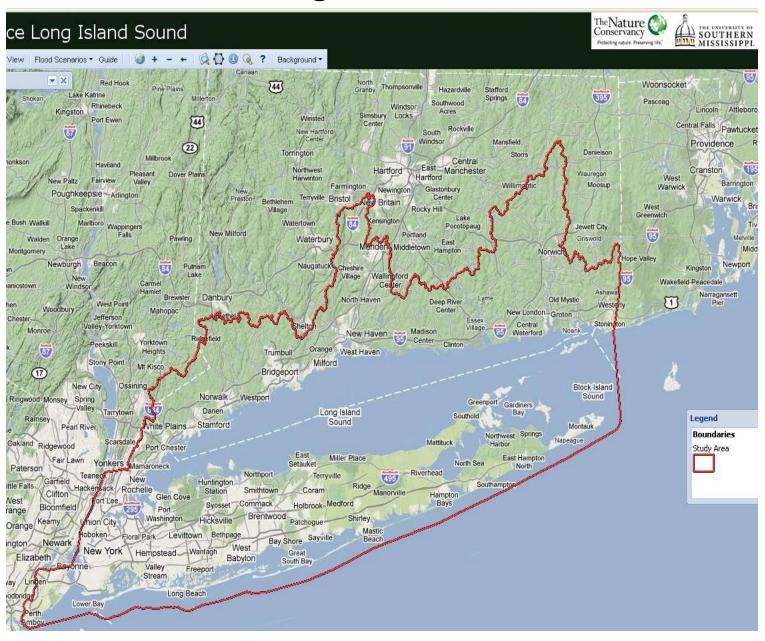


nature.org

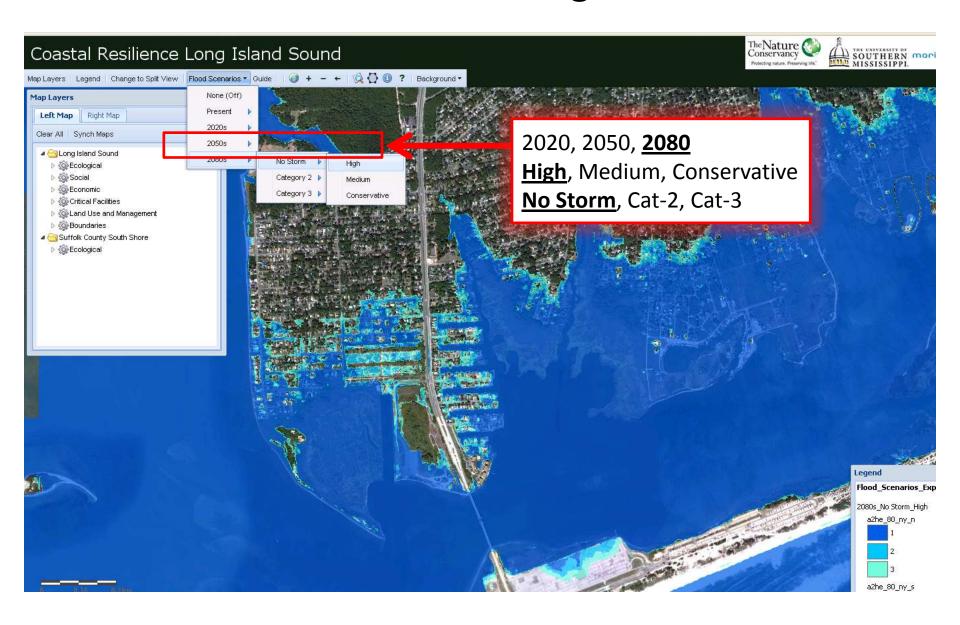


Solutions

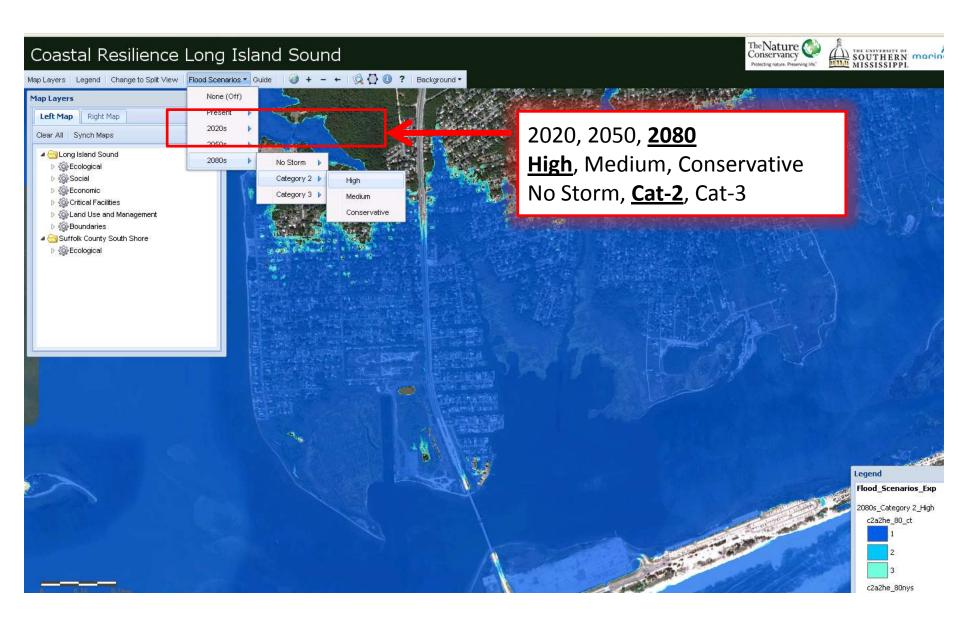
Coastal Resilience: Long Island Sound



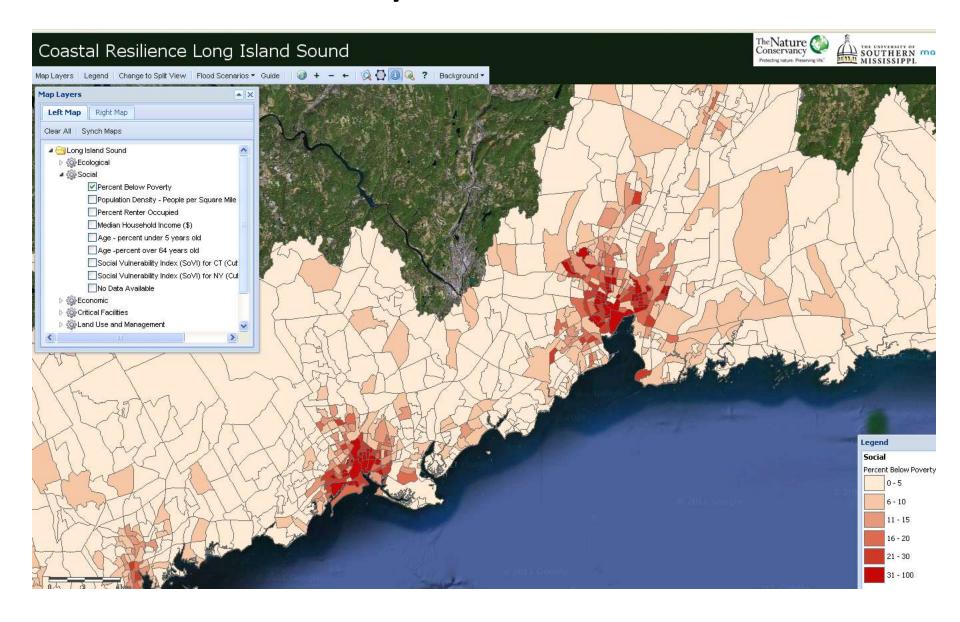
sea-level rise and storm surge scenarios



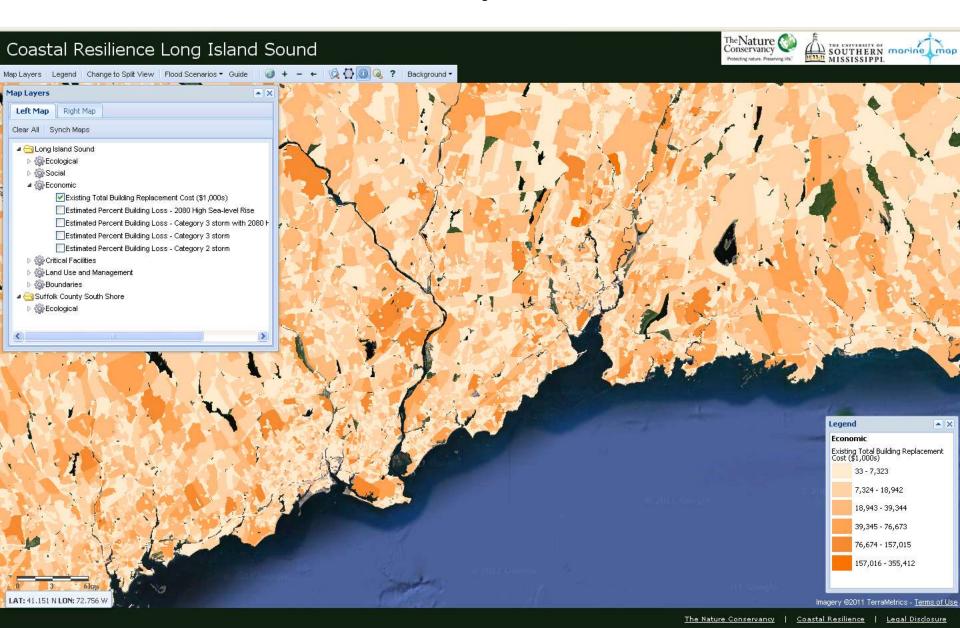
sea-level rise and storm surge scenarios



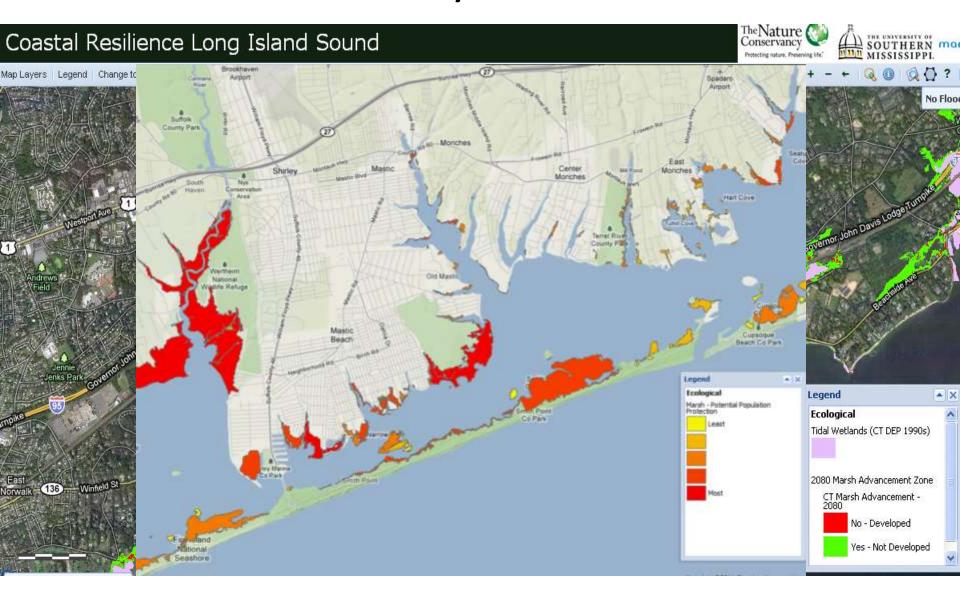
social vulnerability and risk



economic vulnerability and risk



conservation of ecosystem services



"advancement zones" and "protective capacity"