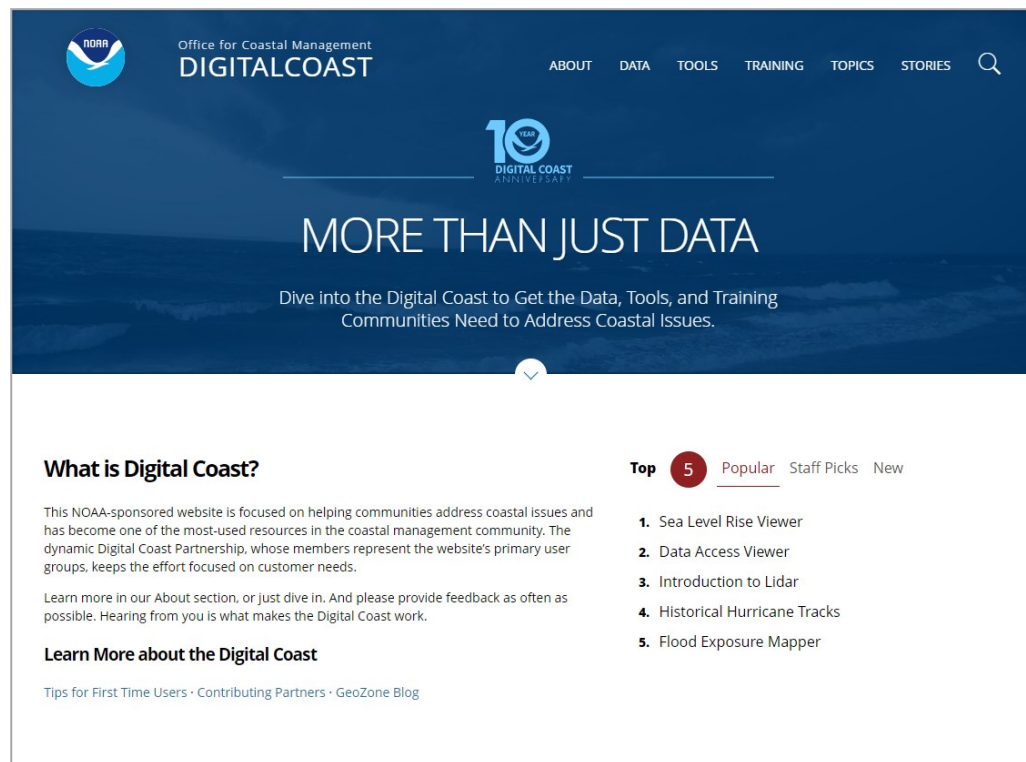


NOAA's Digital Coast

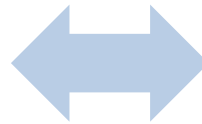
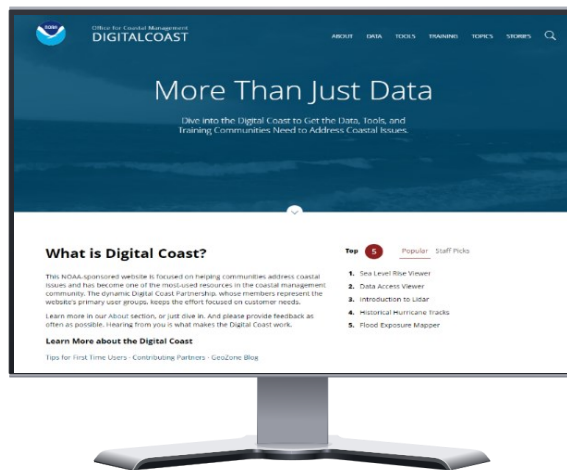
Actionable Information for Communities

Digital Coast

- **Approach:** Bring geospatial and coastal management communities together
- **Outcome:** An information powerhouse for coastal communities



Digital Coast Enabling Platform



coast.noaa.gov/digitalcoast

Digital Coast Partnership



NOAA Office for Coastal Management | American Planning Association
Association of State Floodplain Managers | Coastal States Organization
National Association of Counties | National Estuarine Research Reserve Association
National States Geographic Information Council | The Nature Conservancy
Urban Land Institute

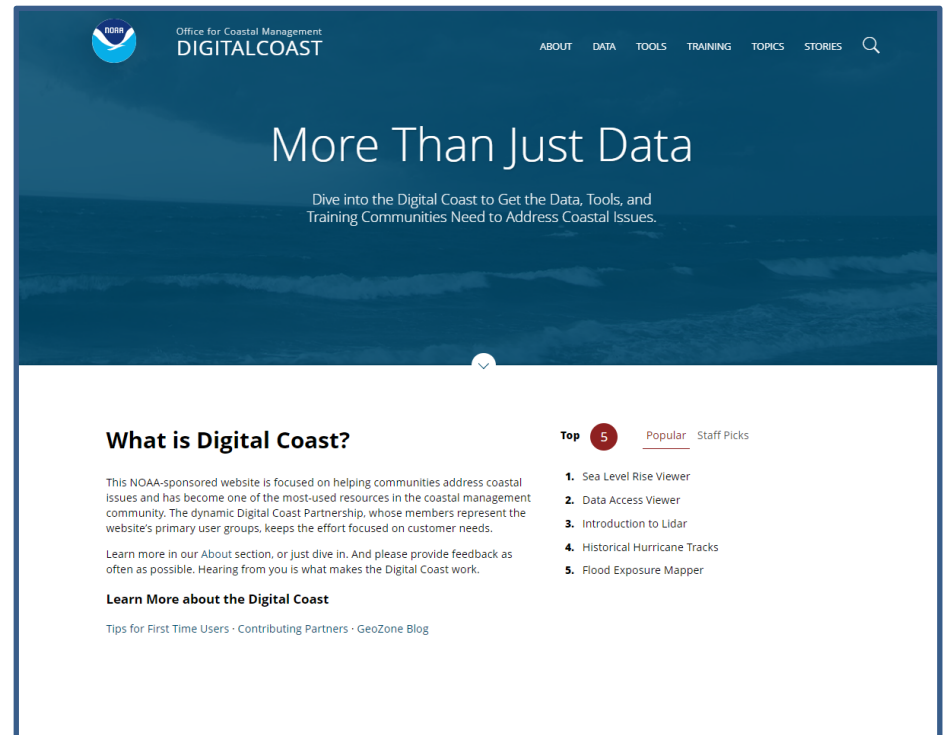
Better Together

Community Rating System Strategy

- **Partners:** NOAA, The Nature Conservancy, Association of State Floodplain Managers, Coastal States Organization
- **Products:**
 - How to Map Open Space for CRS Credit (NOAA)
 - Community Rating System Explorer (The Nature Conservancy)
 - CRS Green Guide (Association of State Floodplain Managers and Coastal States Organization)
- **Outcome:** Guidance and tools to help communities reduce flood risk using nature-based solutions

Digital Coast Website

- Data, tools, training, and case studies
- Enhanced utility and application
- Demonstration of geospatial information



Facilitating Use and Application



DISCOVER



DOWNLOAD



MAP



ANALYZE



LEARN



SHARE

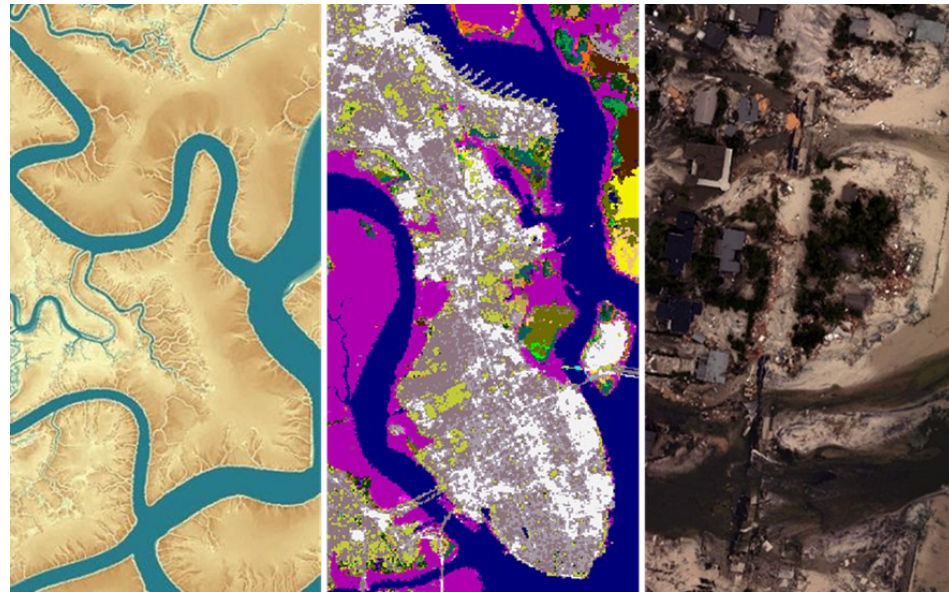
DATA

INFORMATION

ACTION

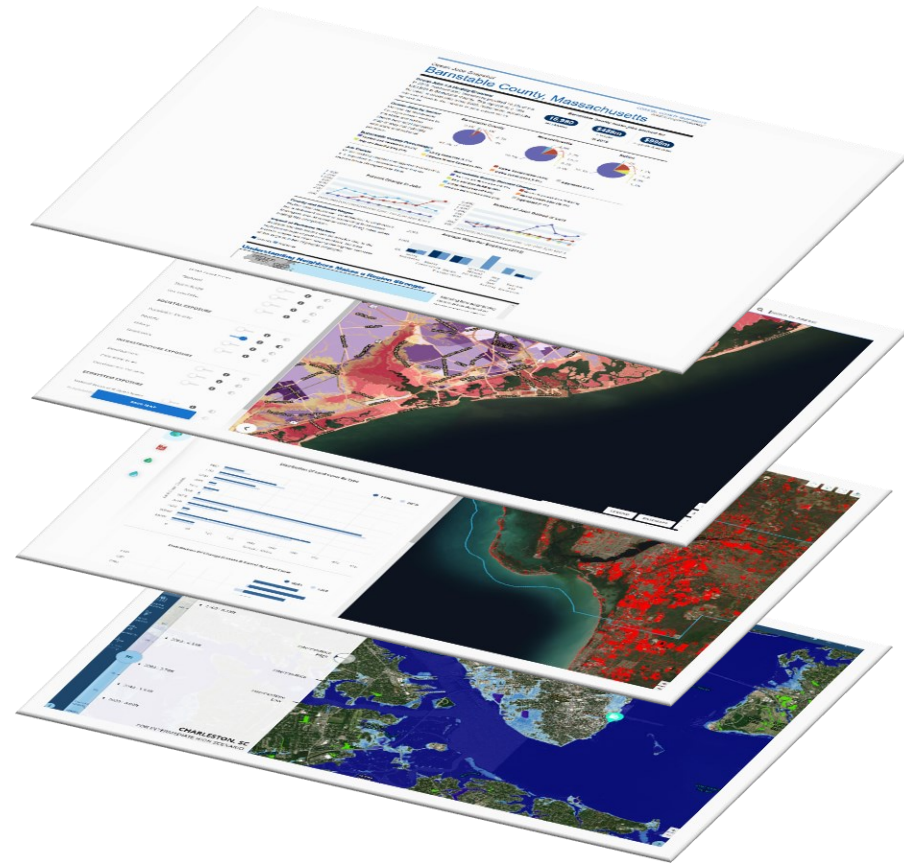
Digital Coast Data

- 70+ terabytes of high-resolution elevation data, land cover data, and orthoimagery
- 200+ web mapping services
- National-level coastal data sets



Digital Coast Tools

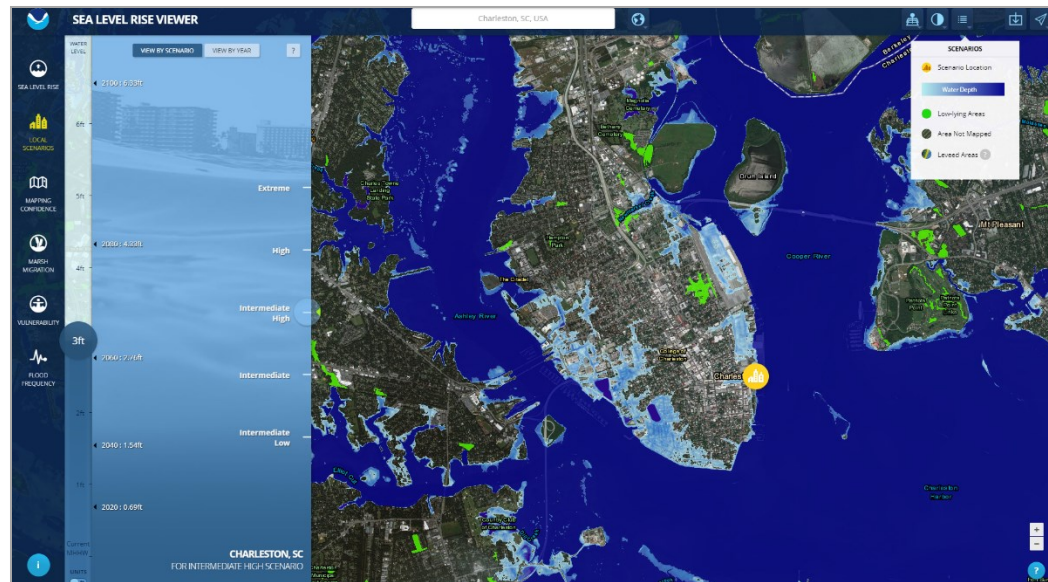
- 70 decision-support and information visualization tools
- Visualization and analysis without need for desktop GIS software



Digital Coast Tools

Sea Level Rise Viewer

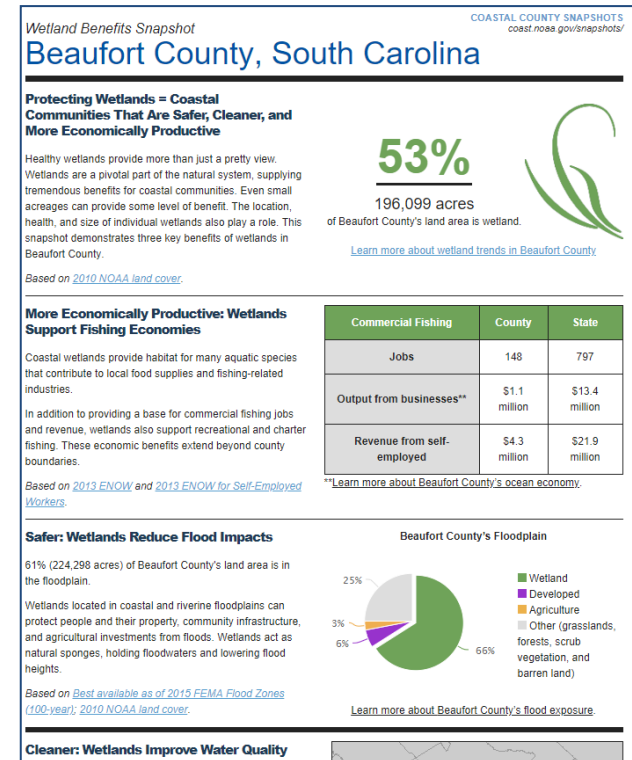
- Local sea level rise projections
- Data that integrates
 - Marsh migration
 - High-tide flooding
 - Socioeconomic impacts
 - Mapping confidence



Digital Coast Tools

Coastal County Snapshots

- Easy-to-understand handouts, complete with charts and graphs
- Optimized to print on single sheet of paper for easy distribution



Flood Exposure

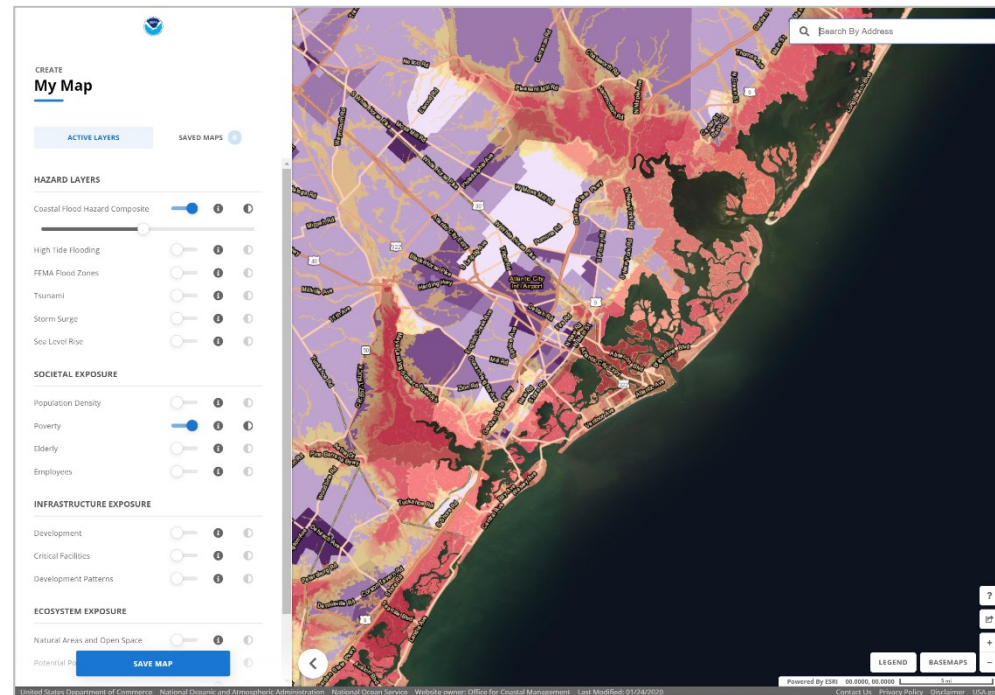
Ocean Economy

Wetland Benefits

Digital Coast Tools

Coastal Flood Exposure Mapper

- Maps show people, places, and natural resources exposed to coastal flooding
- Community-based approach for assessing coastal hazard risks and vulnerabilities



Digital Coast Academy

Over 150 learning resources

- Classroom and online instructor-led
- Self-guided
- Case studies
- Publications and quick references
- Videos and webinars



Learning Resources for Adaptive Communities

Instructor-Led Training

- Adaptation Planning for Coastal Communities
- Introducing Green Infrastructure

Publications

- Green Infrastructure Costs and Benefits
- Introduction to Stakeholder Participation

Quick References

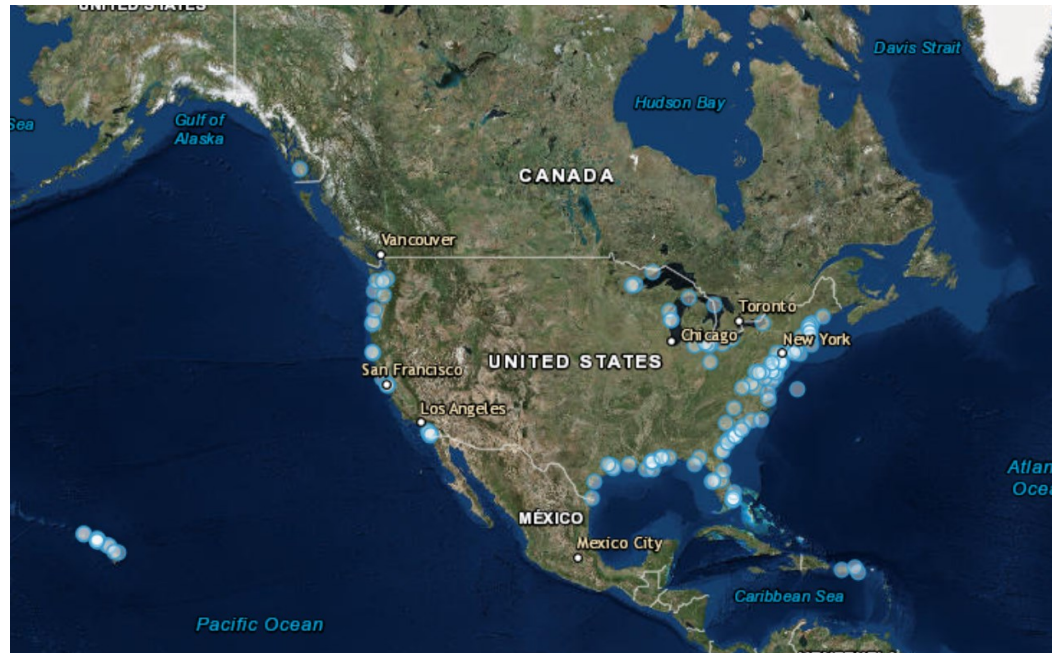
- Assessing Adaptation Options
- Stakeholder Analysis Worksheet

Case Studies

- San Francisco Stakeholder Engagement Process
- Toledo Green Infrastructure Implementation

Stories from the Field

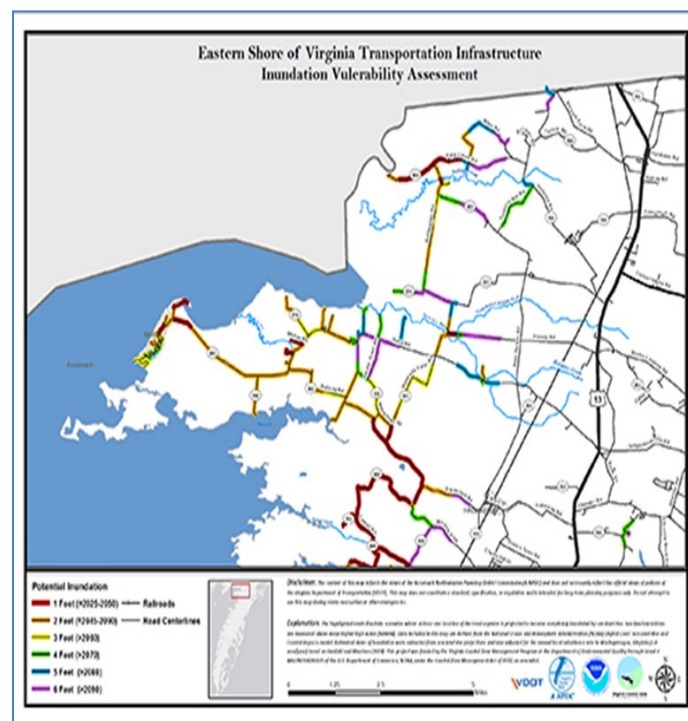
- 115+ narratives demonstrate how users apply Digital Coast resources
- Highlight partnerships and impact



Making an Impact

Assessing the Vulnerability Of Transportation Infrastructure On The Eastern Shore

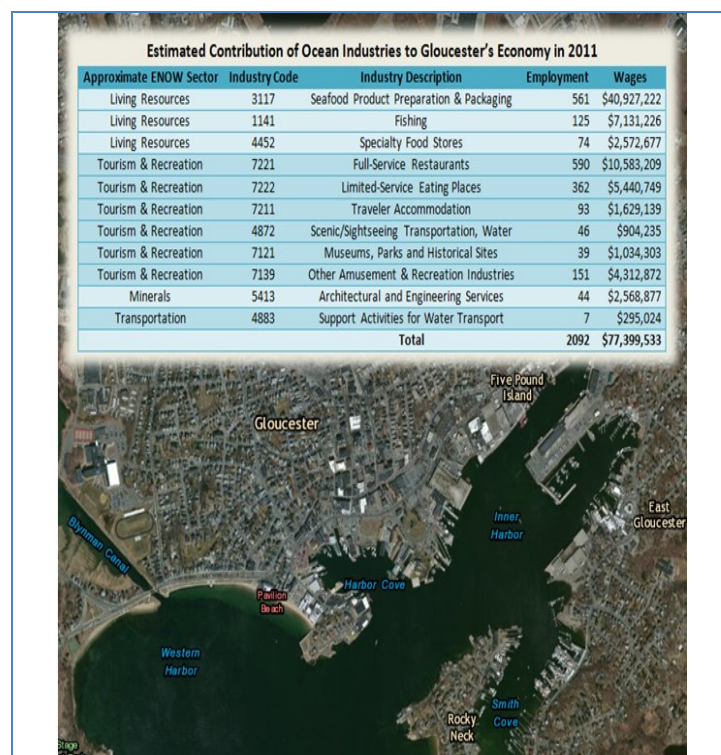
- **Partners:** Virginia Department of Transportation, Virginia Coastal Zone Management Program
- **Product:** Sea Level Rise Viewer
- **Outcome:** Determined that 33 miles of roads in region would be vulnerable to inundation within next few decades with one foot of sea level rise



Making an Impact

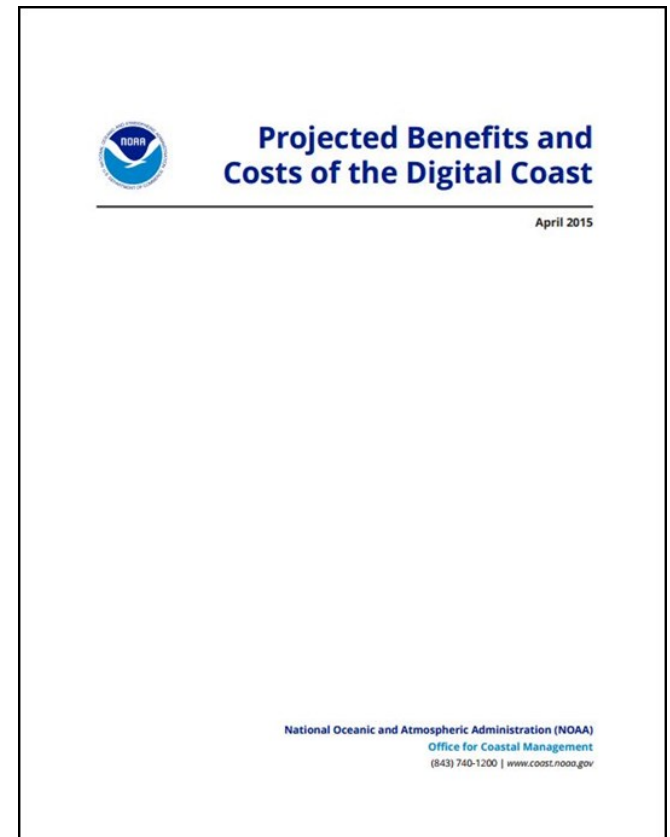
Estimating the Economic Contribution Of Gloucester, Massachusetts' Working Waterfront

- **Partners:** Gloucester, Massachusetts, Office for Coastal Management
- **Product:** Economics National Ocean Watch
- **Outcome:** By scaling data to municipal level, harbor planners were able to tailor maritime economy profile and plan for new and emerging markets



Demonstrating Value

- Digital Coast is expected to yield net benefit of **\$117 million** by 2028, equating to return on investment of **411 percent**
- Study surveyed Digital Coast users, who highlighted improved efficiency and effectiveness thanks to the platform



What's Next?

Strategic Plan Objectives

- Advance Digital Coast Partnership
- Increase availability of core coastal data sets
- Provide actionable decision-support resources
- Expand NOAA and interagency collaborations
- Enhance Digital Coast platform

**Strategic Plan
for the Digital Coast**
2016 to 2021

Office for Coastal Management



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