

How Big Should My Village Be?



North Carolina Sea Grant Research Symposium

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April 16, 2014



Office of Ocean and Coastal Resource Management | Coastal Services Center

Coastal Communities: Vital to U.S. Economies

- Coastal watershed counties contain **52%** of the nation's population -- but account for **less than 20%** of US land area (excludes AK).
- **45 %** of the U.S. national gross domestic product is contributed by coastal communities
 - Supports more than 51 million jobs
 - Coastal tourism and recreation accounted for \$89.2B between 2005-2010



Billion Dollar Disasters: Fact of Life

U.S. 2013 Billion-dollar Weather and Climate Disasters



This map denoted the approximate location for each of the seven billion-dollar weather and climate disasters that impacted the United States during 2013.



Determining Risk

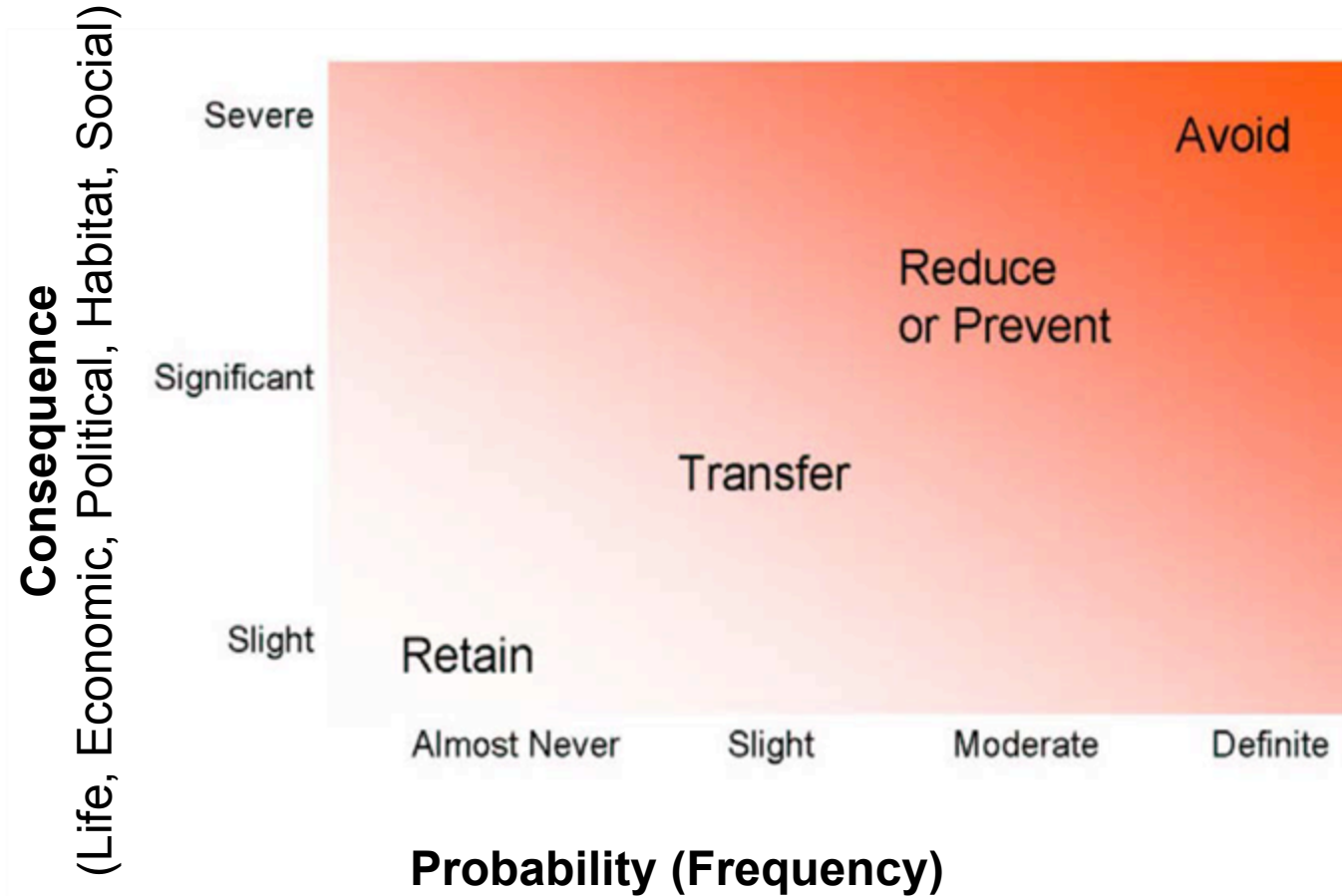


Chart courtesy of Western Kentucky University



Managing Risk: Who Pays?



Providing Solutions to Barriers

More than just data...

- Coastal data
- Data accessibility
- Improved intergovernmental coordination
- Techie and non-techie tools
- Training
- Outreach and awareness
- Contracting for geospatial services



Not Waiting for A Disaster to Achieve Better Resilience Today



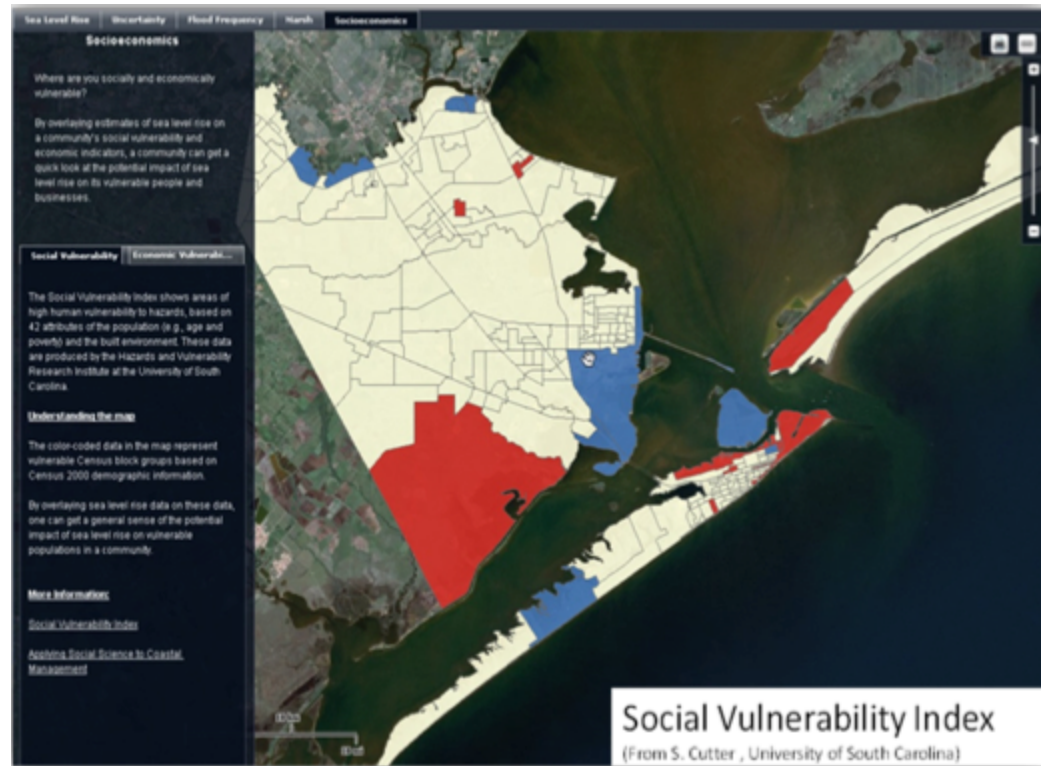
Digital Coast Resilience Data and Tools

- Coastal lidar
- SLR and Coastal Flooding Impacts Viewer
- Coastal economic data
- Electronic navigation charts
- Tides and water levels

<http://csc.noaa.gov/digitalcoast/>



Most Vulnerable Populations



Sandy: A Turning Point?



State and Federal Agency Roles are Changing

- Providing information and new research
- Adaptation of assets and activities
- Policies and funding that require and/or incentivize resilience at other levels



State and Local Policies are Changing



Research to Application

- Connecting watersheds
- Conserving, protecting, and creating natural services



Community
Supported Fisheries



CI-FLOW

Coastal and Inland Flooding Observation and Warning Project



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Regional Priorities

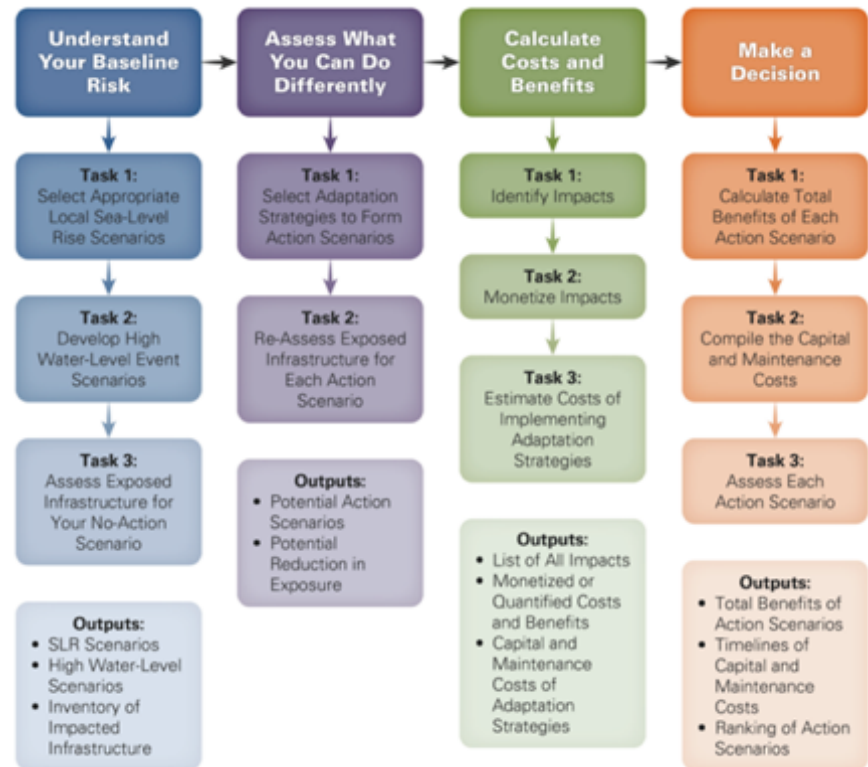
- Hazards and coastal change
- Ecosystem services/valuation
- Green infrastructure
- Energy issues



Training Opportunities

- Digital Coast has data and tools Trainings
- Guidance
- Technical support

An Economic Framework for Coastal Community Infrastructure



<http://www.csc.noaa.gov/digitalcoast/>



Partnerships are Essential to Progress



Change is Here: Time to Act is Now

