

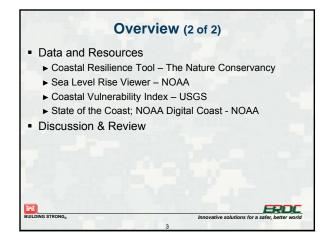
#### Overview (1 of 2)

- Types of Assessments: Top-Down (T), Bottom-Up (B)
- Examples of Tools (for additional discussion, see handout)
  - T: Baseline Resilience Indicators for Communities (BRIC)
  - ► T: SoVI® Social Vulnerability Index
  - ► T: Regional Capacity Index (RCI)
  - ► B: Coastal Resilience Index (CRI)

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- ► B: Maryland's CoastSmart Communities Report Card
- B: Communities Advancing Resilience Toolkit (CART)
- More...only a snapshot of the many tools available, with more being developed daily

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## Assessments: Bottom-Up vs. Top-Down

#### Bottom-Up

- Community-Generated
- Utilize local knowledge, expert elicitation,
- anecdotal information
- Hazard-specific
- Intended for communities to identify vulnerabilities and build capacity
- Subjective not transferrable

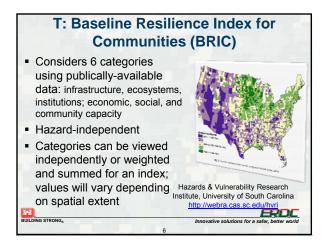
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to **Top-Down** • Externally-Generated

- Utilize regional and national data
- Hazard-independent
- Intended to intercompare
- regions, address policy
- Objective, although data may be arbitrarily weighted in an index

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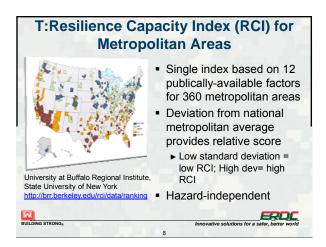
# T: Social Vulnerability Index (SoVI®)

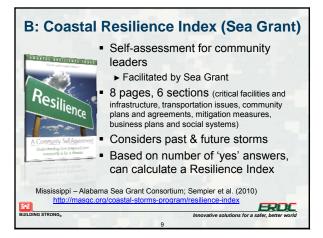
- Social vulnerability to environmental hazards
- County-level data ► For policy makers and
- practitioners ► Capacity for preparedness,
- response, and recovery from a disaster



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29 socioeconomic variables; primarily US Hazards & Vulnerability Research Institute University of South Carolina Census http:// ERIA BUILDING STRONG



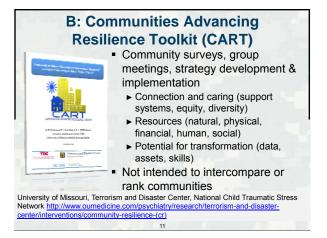


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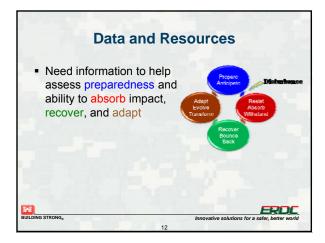
# B: Maryland's CoastSmart Community Report Card: http://www.dnr.maryland.gov/coastsma

- Community self-assessment
  - Local officials in group setting
    Hazards: coastal storms, flooding,
    storm surge, and sea level rise
    Scorecard
  - Facilitated by CoastSmart planner
  - Not used for comparison/ranking
  - of communities
- Rating based on yes answers
- Facilitates awareness of
  - Strengths & weaknesses
  - Vulnerabilities & risks
- Next steps to increase resilience





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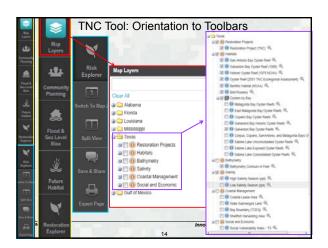
# Coastal Resilience Tool – The Nature Conservancy <u>http://coastalresilience.org/</u>

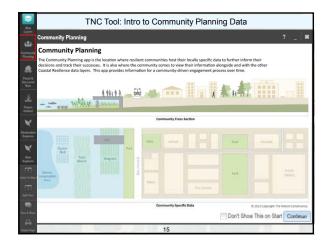
Online geoportal with natural resource, storm and related

process data; selected locations (see map lower left)

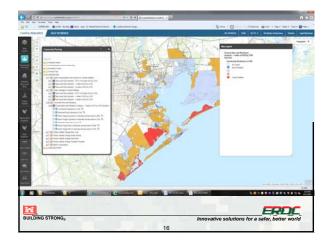
- Oyster restoration, habitat, species, bathymetry, salinity, management, social, economic, and built infrastructure information – a "must" to explore for your region!
- Only a portion of the Tool's resources are discussed herein
- We will use part of the Tool during the breakout
- ► Note: Terminology may differ from definitions herein



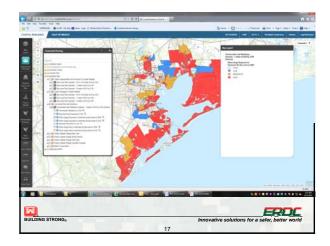


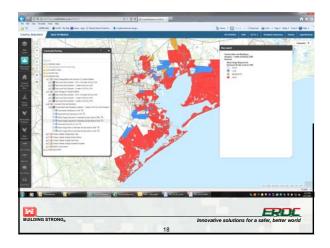




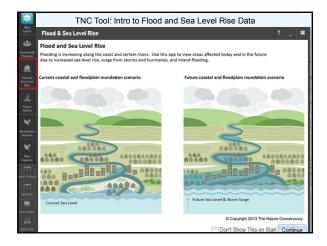




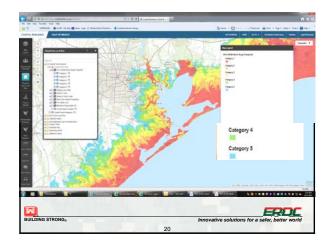




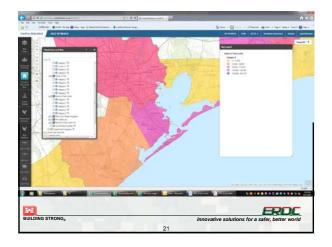




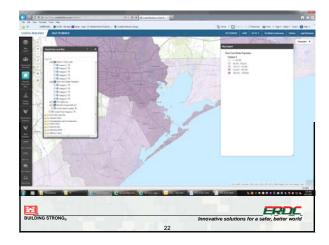




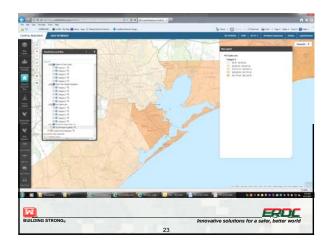




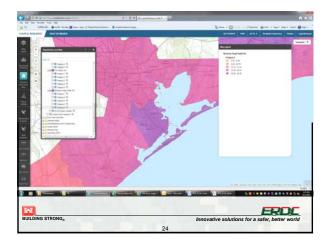




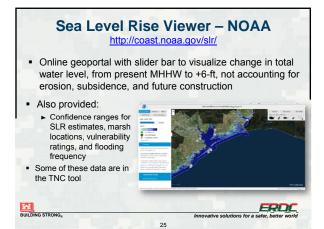


















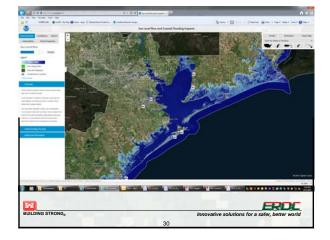




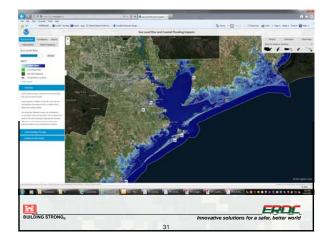












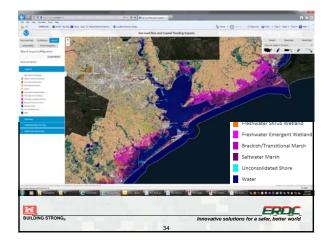


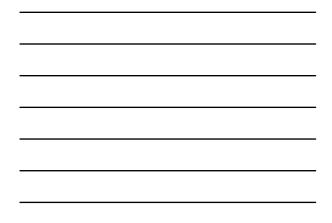


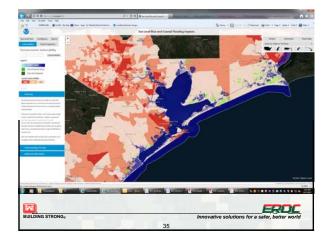




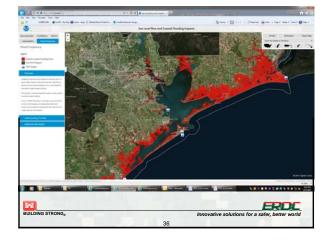




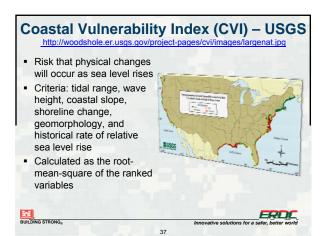




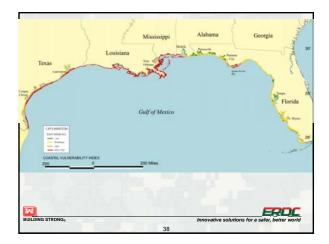




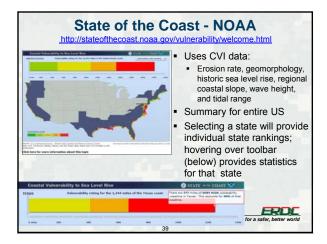














### **Closing Remarks; Discussion** Many assessment tools and a lot of data are available

- More are being developed regularly
- Worthwhile to explore new tools and data when starting new study
- Many of the Top-Down tools are not hazard-specific, but results are comparable between regions
  - Be aware that aggregation of data sets may mask vulnerabilities
  - ► Typically utilize data that are not easily changed (e.g., median income, % older/vulnerable population, number of roadways, etc.)
- Most of the Bottom-Up tools are qualitative and not transferrable
- Beneficial for coming to common understanding, identifying vulnerabilities and developing actionable decisions
- · Advancements are needed in tool development
- Data documenting recovery and the potential for adaptation are lacking

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