

The Nature Conservancy

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## Caribbean Program Strategies

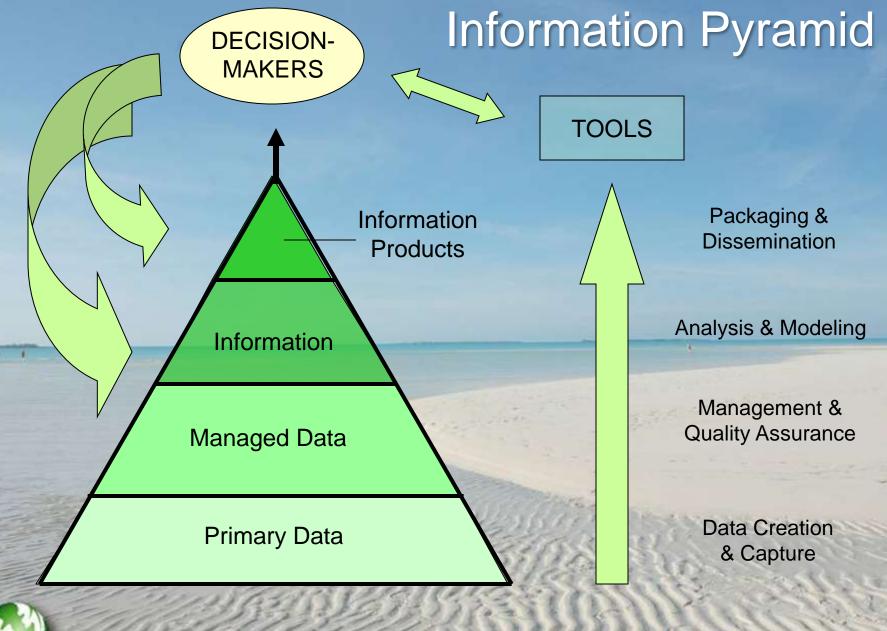
- Expanding and strengthening MPAs (Caribbean Challenge)
- Adaptation strategies that reduce coastal vulnerability and maintain livelihoods
- Promoting sustainable tourism and smart coastal development
- Supporting sustainable fishing practices



## Approach to the strategies

- Developing accurate GIS datasets and user-friendly support tools
- 2. Building capacity at the local-level through education, training, and awareness-raising
- Targeting and executing key demonstration projects that will become protocols for other island and coastal situations





# Caribbean Decision Support System (CDSS)

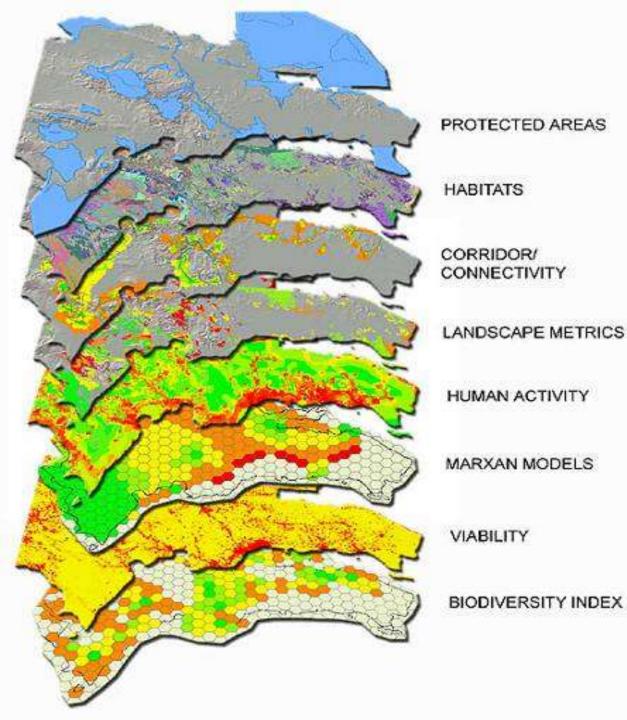


**Decision Support System** 

#### 3 components:

- Insular Caribbean-wide database of conservation targets, protected areas, and threats to biodiversity
- 2. Methods and tools for setting priorities for biodiversity protection and sustainability
- 3. Identification of most persistent and viable areas of biodiversity

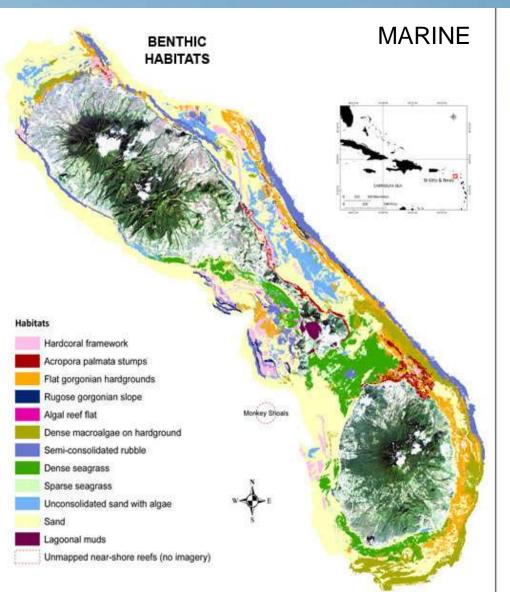


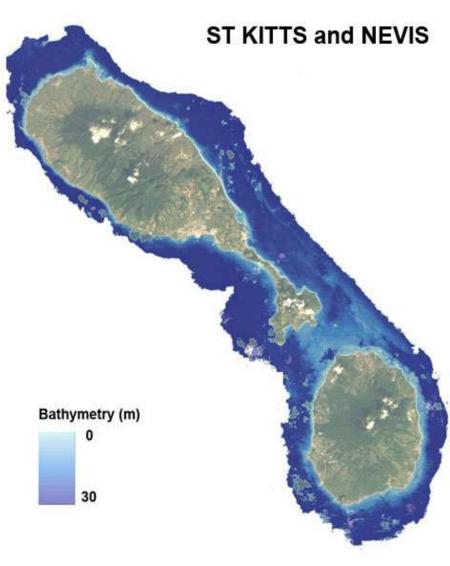


# Caribbean Decision Support System

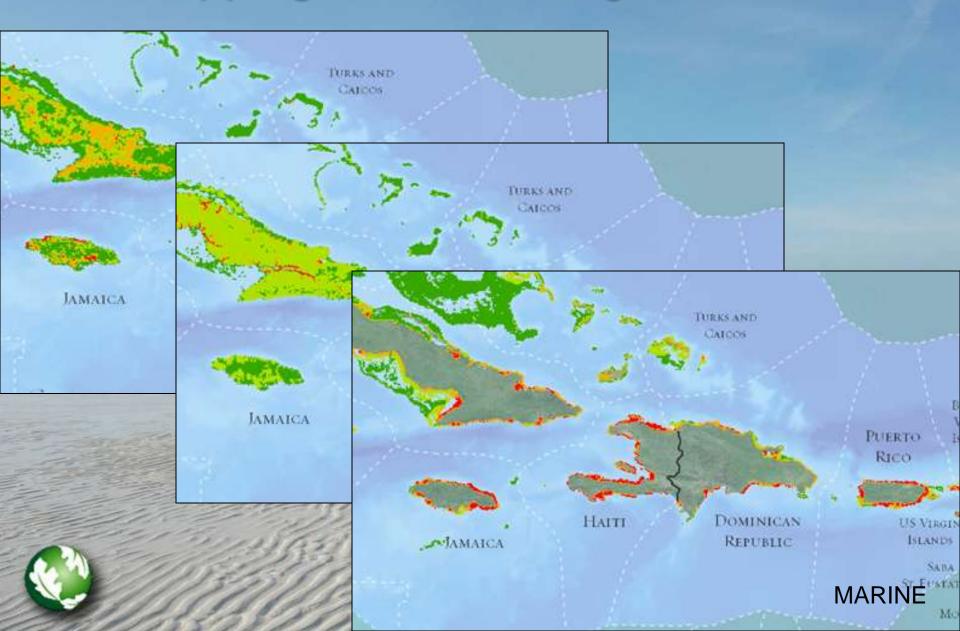
- Multiple scale management tool
- Evaluation of the protection of natural resources and assessing human well-being

#### Mapping and Modelling of Habitats





#### Mapping and Modelling of Threats



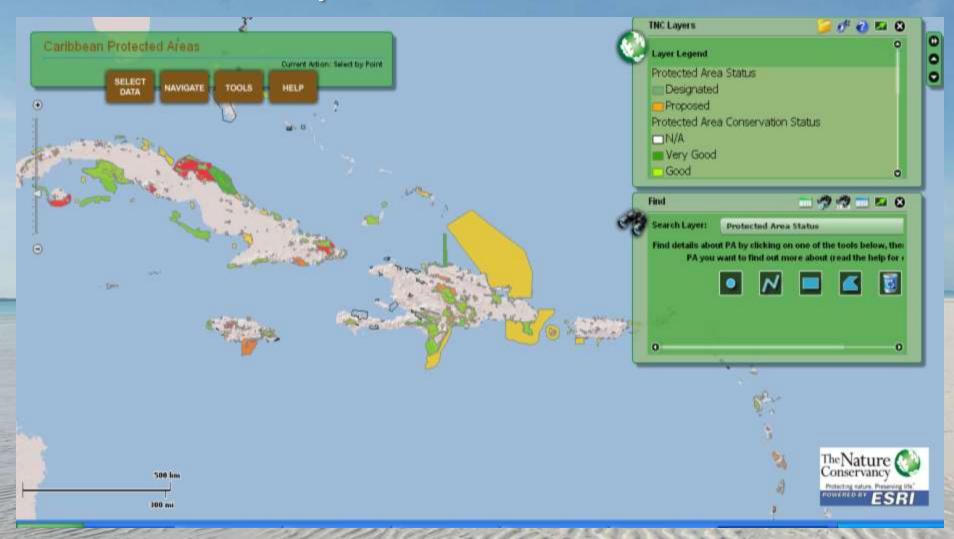
#### REGIONAL CONSERVATION ASSESSMENT FOR THE CARIBBEAN BASIN MARINE CONSERVATION PORTFOLIO



375

500 Mi

#### Online Map Viewer: Protected Areas





http://maps.tnc.org/CARIBPA/index.html

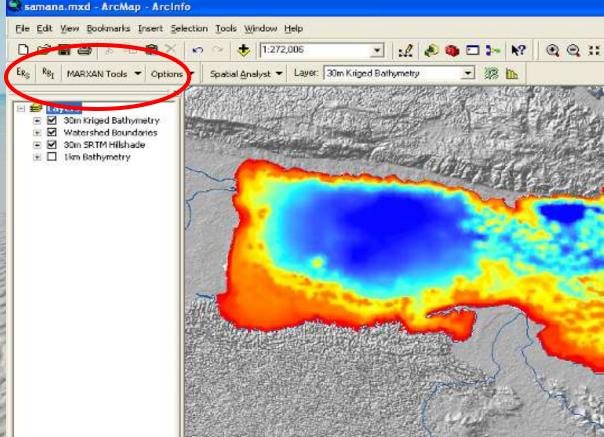


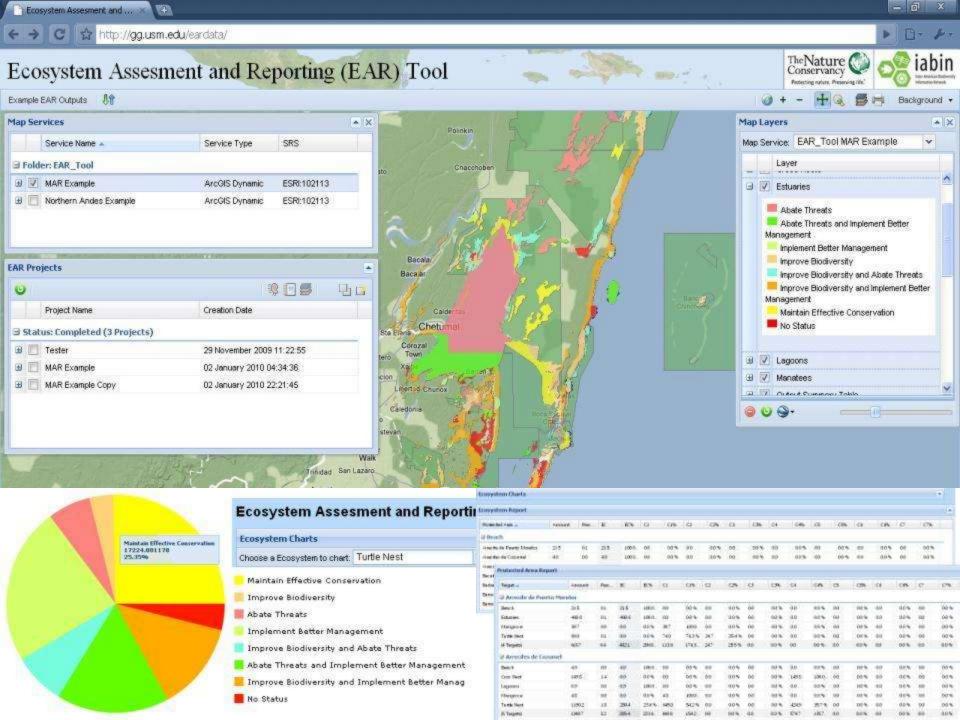
- 1. Environmental Risk
  - Surface (ERS)
- 2. Relative Biodiversity Index (RBI)
- 3. Marxan Tools

http://www.gispatools.org

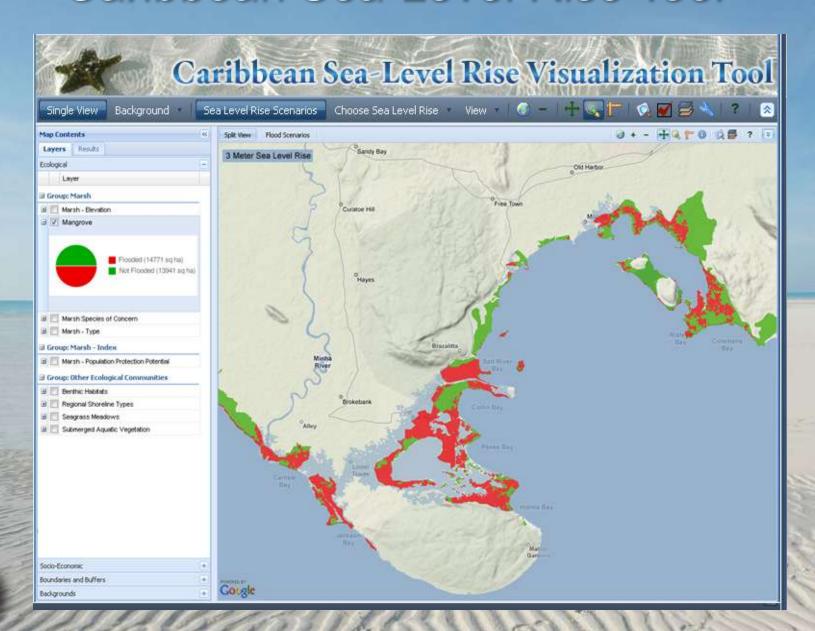
Schill and Raber, 2008







#### Caribbean Sea-Level Rise Tool



#### Conclusions

- TNC is committed to developing systematic GIS databases for conservation decision-making
- Data are the engine that drive many of the GISbased decision support tools
- The CDSS is a comprehensive Caribbean-wide system that provides data and tools for conservation decision-making.
- TNC continues to seek for new opportunities for both funding and collaboration



#### MORE INFORMATION:

- Dr. Steve Schill: sschill@tnc.org
- Protected Area Tool: http://gg.usm.edu/pat/
- Ecosystem Assessment and Reporting Tool: <a href="http://gg.usm.edu/ear/eardata/">http://gg.usm.edu/ear/eardata/</a>
- Online map tool: <a href="http://maps.tnc.org/CARIBPA/index.html">http://maps.tnc.org/CARIBPA/index.html</a>
- · CDSS:
- http://conserveonline.org/workspaces/Cari
- bbean.conservation

