

SSC and DAPs Ecosystem Conceptual Models

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Overview

- Timeline recap
- Methods
- Conceptual Models
- Preliminary results

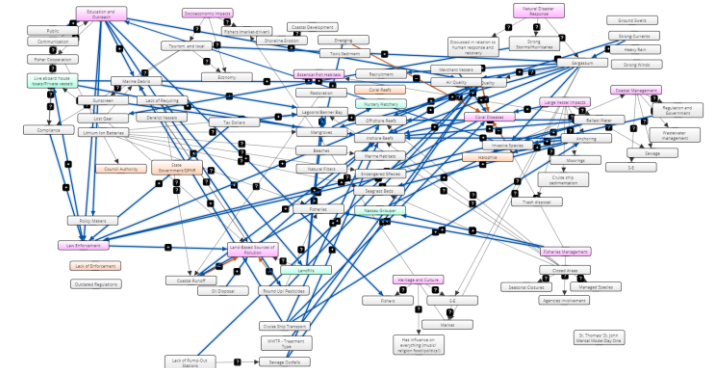
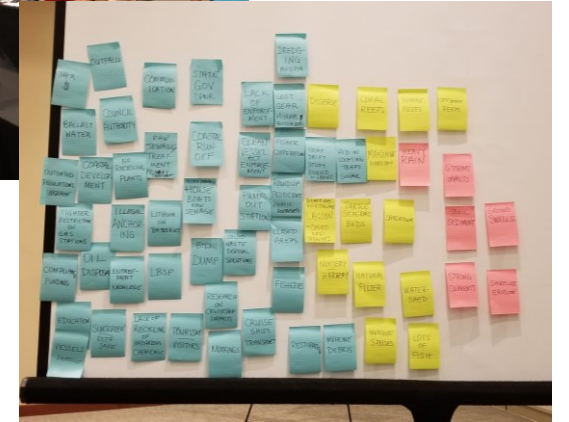
Timeline recap

- FEP best practices
- 2018-Council request for ECM development
- 2019-Iniciation of SSC and DAPs ECMs
 - Meeting in English and Spanish (in PR)
- 2021-Finalization of SSC and DAPs ECMs



Methods

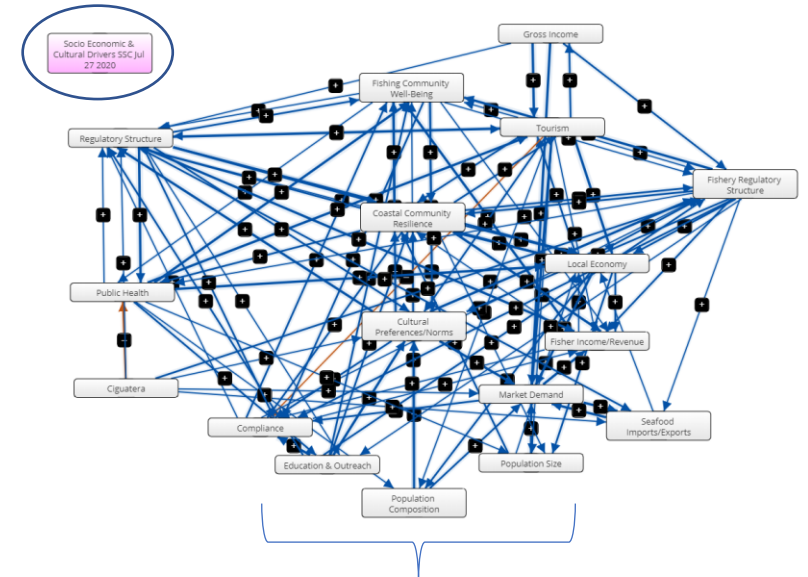
- DAP STX, STT/STJ, and PR
 - Separate meetings for each DAP
 - 2019: In-person meeting
 - Break out rooms (1 ECM per island district)
 - Identification and description of components
 - Connections on to Mental Modeler
 - “Driver”/“Affected”
 - 2020- 2021: virtual meetings
 - Identification of linkages between components
 - Magnitude and direction provided
 - DAPs review of existing components and effect and magnitude of linkages between components
 - Use of Glossary or notes of components for revision



Methods

- SSC
 - Identification of 8 main principal components (now called sub models)
 - Expansion and definition of each sub model (sub components)
 - Established of intra connections (within a sub component)
 - June 2020: 1-week Virtual meeting
 - All SSC were assigned a sub model and brought up in meeting; scored by consensus
 - Established of interconnections (between sub models)
 - Home work to SSC members, scored as average of each SSC member that chose that connection.

Submodel



Components within sub model

Review and other resources

- Recordings
- Notes
- Mental Modeler CM
- Scored connections spreadsheet

Driving Component	Affected Component	Effect (pos/neg)	H/M/L scores by consensus	Magnitude (Mean based on H/M/L Scores)	Total number of Participants	Notes
Strong Winds						
Ground Swells						

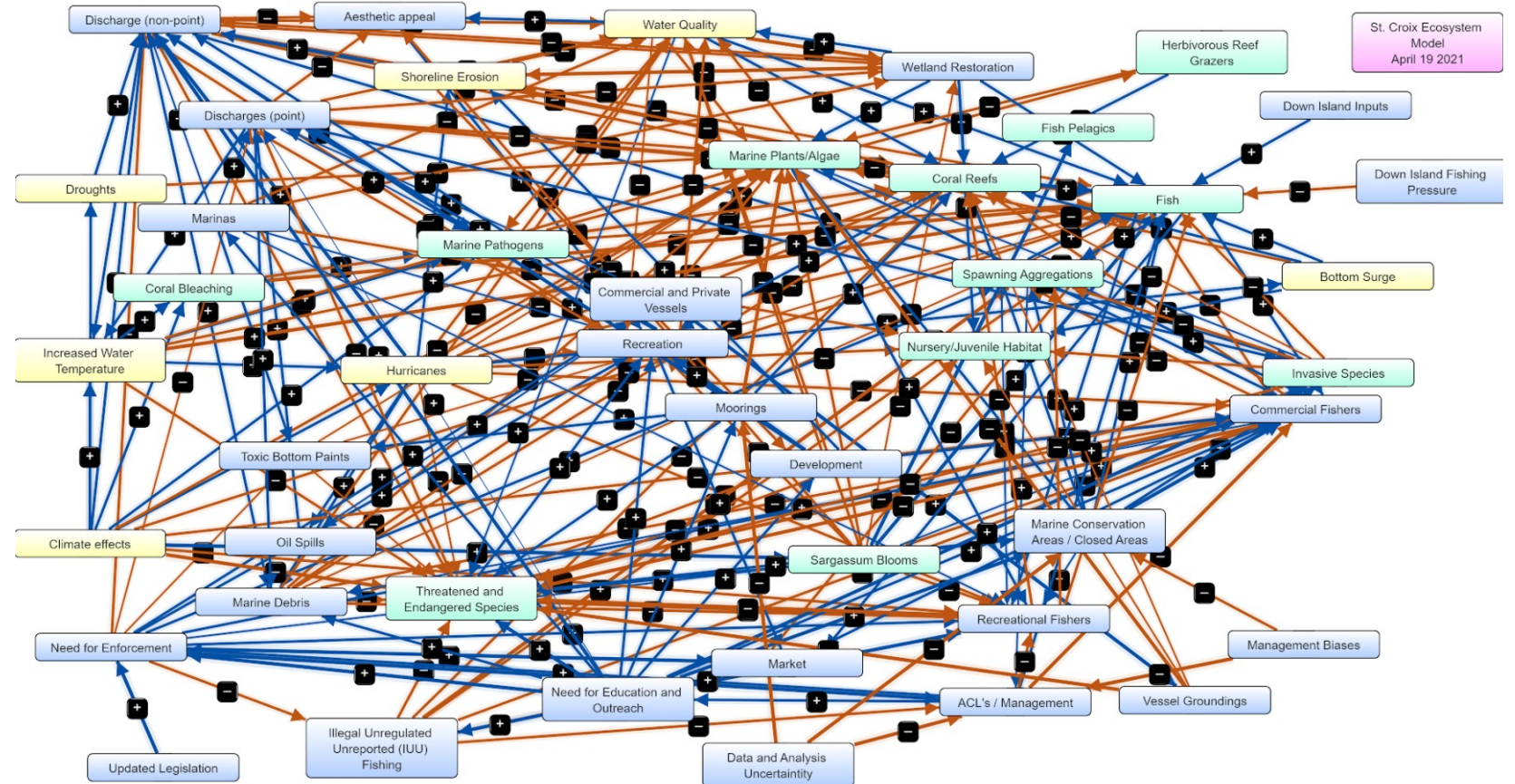
Results

- DAPs: 3 ECM (1 per district island)
- SSC: 8 ECM (for each sub model, intra connections); 1 ECM (inter connections)
- Total of 12 ECMs

St. Croix

Most influential drivers

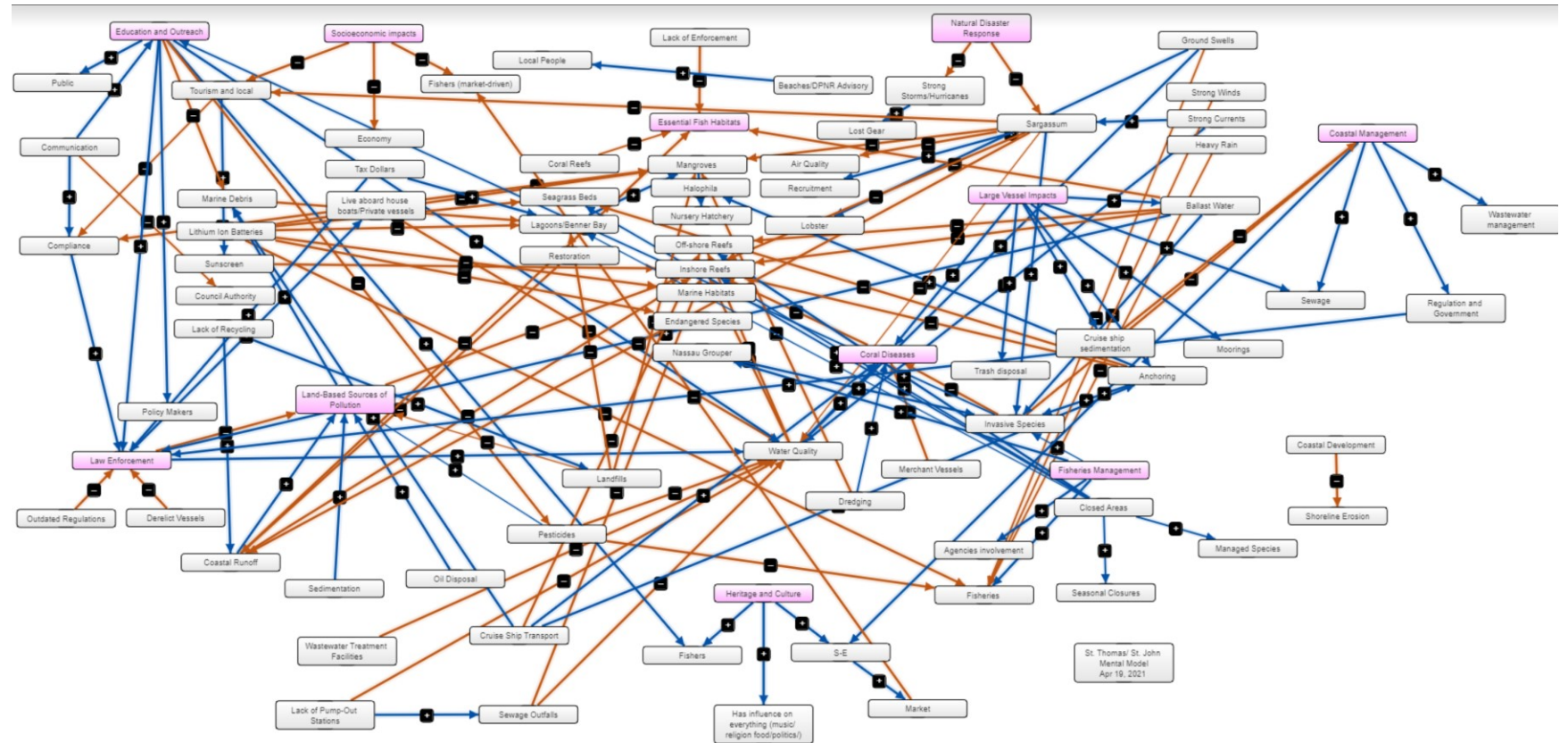
- Need for education
- Hurricanes
- Sargassum Blooms
- Climate Effect
- Discharges nonpoint



STT/STJ

Most influential drivers:

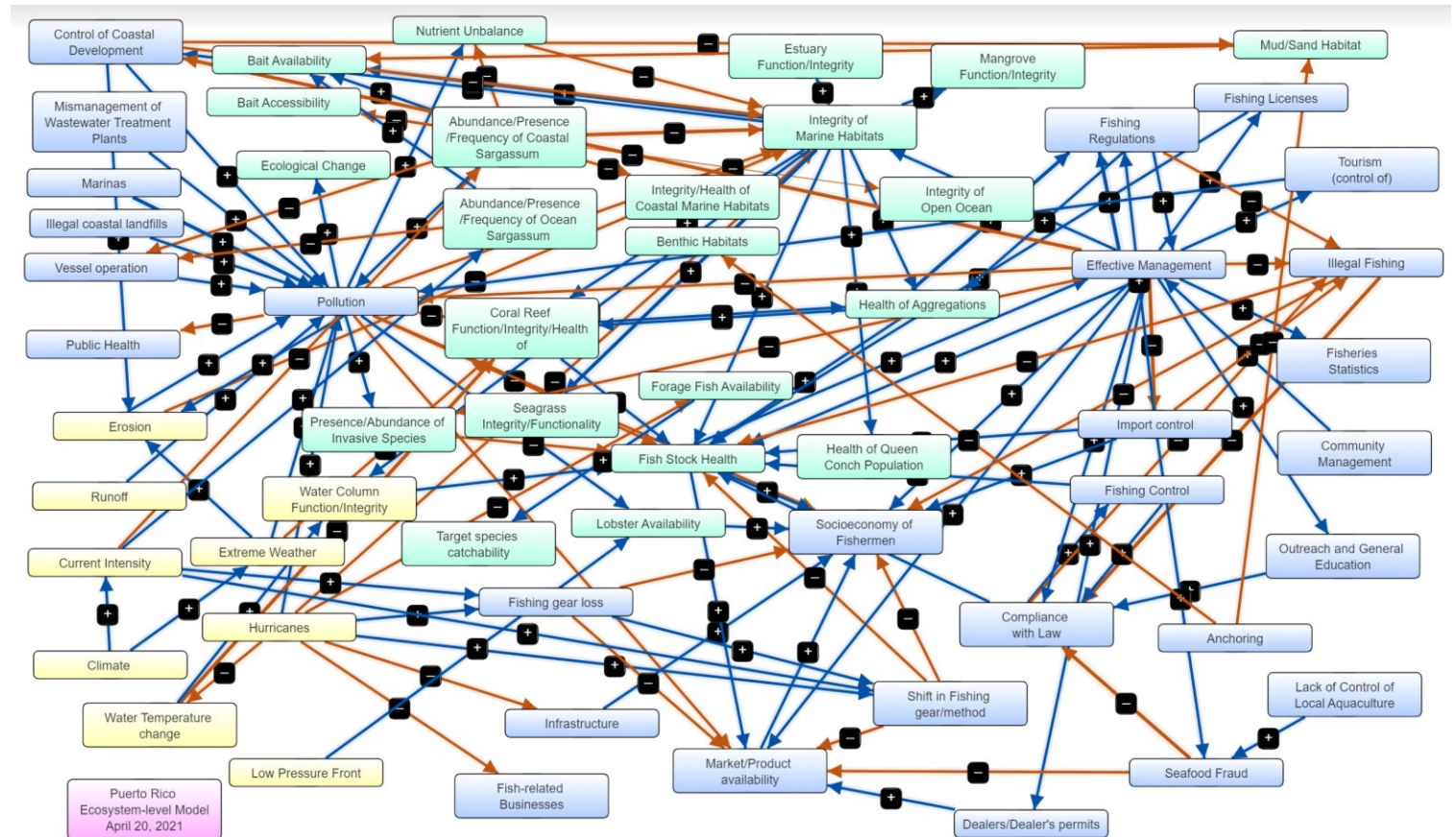
- Sargassum
- Lithium-Ion Batteries
- Education and Outreach
- Large Vessel Impacts
- Ballast Water



Puerto Rico

Most influential drivers:

- Marine Habitats
- Effective management
- Pollution
- Sargassum
- Current intensity
- Hurricanes
- Aggregations
- Compliance with Law
- Coral Reefs
- Illegal Fishing).



Questions



“La suerte de la cuerda”
Osiris Delgado