

Caribbean Fishery
Management Council

April 19, 2021

DAP StT/StJ

Graciela García-Moliner

Liajay Rivera García

Ecosystem Conceptual Model St. Thomas/ St. John Update



Timeline DAP STT/STJ

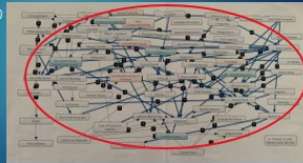
Jul 30, 2019

Development

From March 26, 2019 - July 30th 2019:

-55 connections (black thin lines)
-58 connections (in blue)
total of 113 connections

At this point no positive or negative (+/-) impact connections were established.



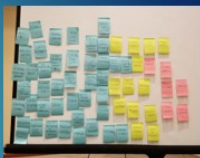
October 7, 2020

April 19, 2021

March 26-27, 2019

March 26-27, 2019

- Joint DAP & SCC meeting



August 26, 2020

Development

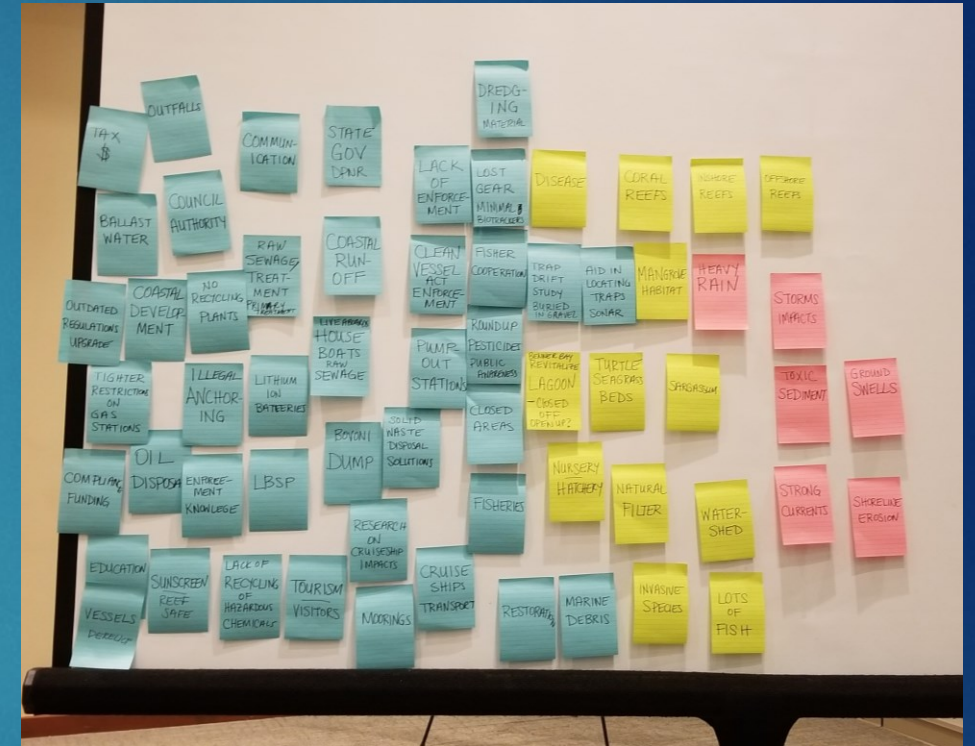
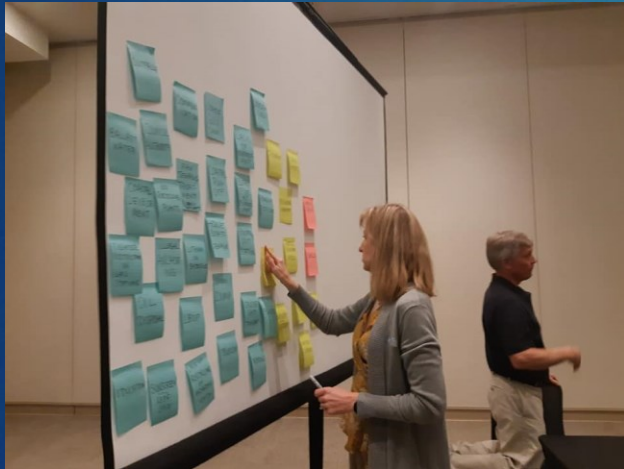
Addressed connections in relations to the top 11 key items (pink boxes).
Provided scores (High, Medium Low).

Enforcement
Water quality
Education and Outreach
Heritage and Culture
Natural Disaster Response
Socioeconomic Impacts
Essential Fish Habitats
Land-based Sources of Pollution
Coastal Management
Coral Diseases
Large Vessel Impacts



March 26-27, 2019

- Joint DAP & SCC meeting



Development

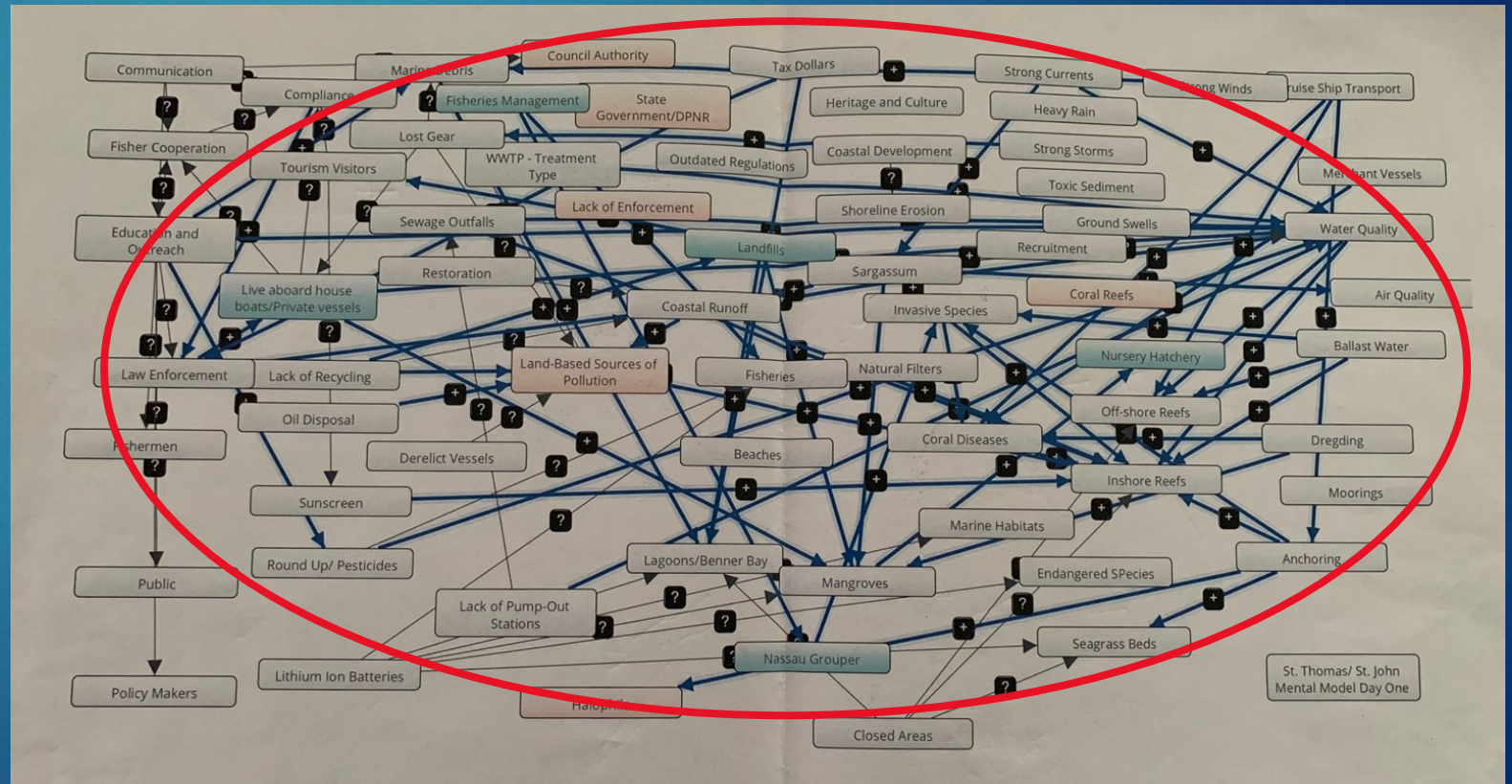
From March 26, 2019 - July 30th 2019:

-35 connections (black thin lines)

-58 connections (in blue)

Total of 93 connections

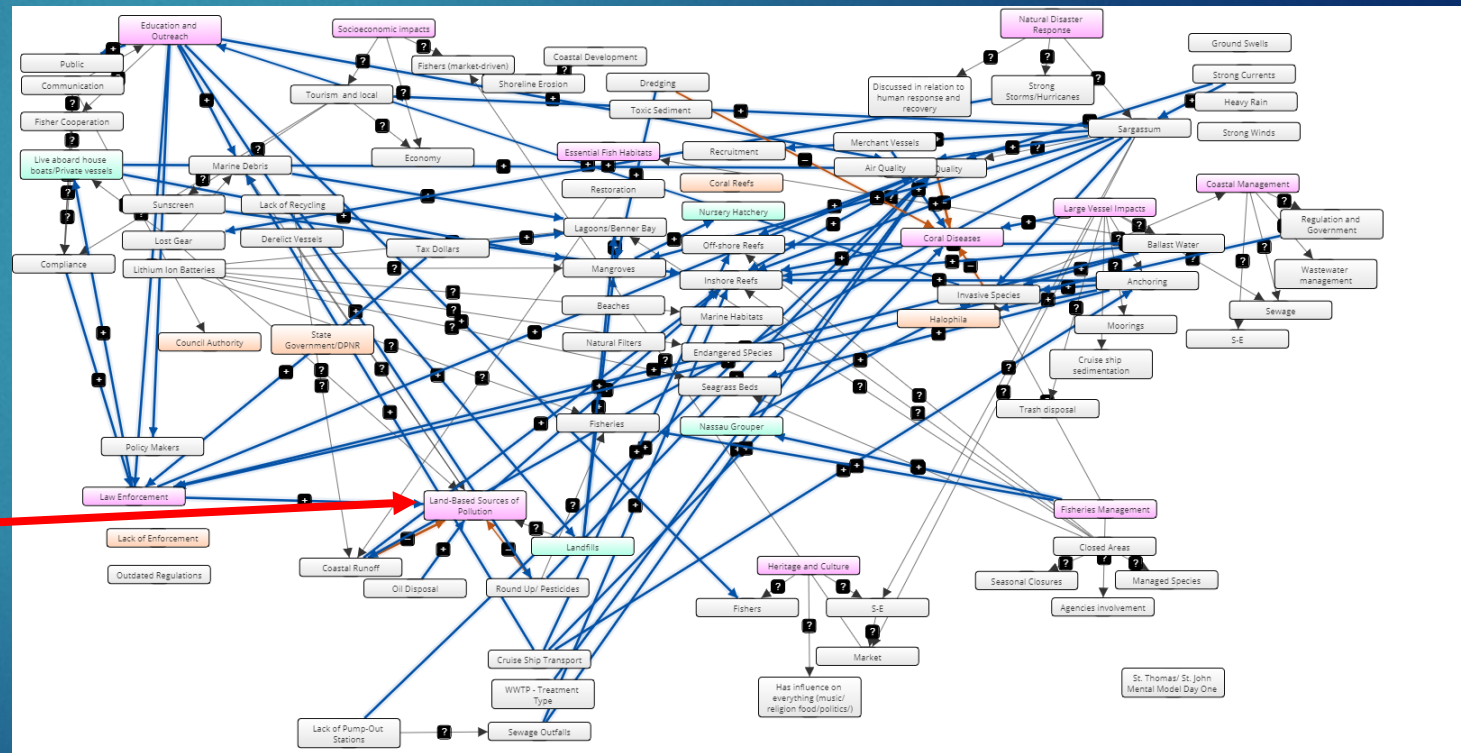
At this point no positive or negative (+/-) impact connections were established.



Development

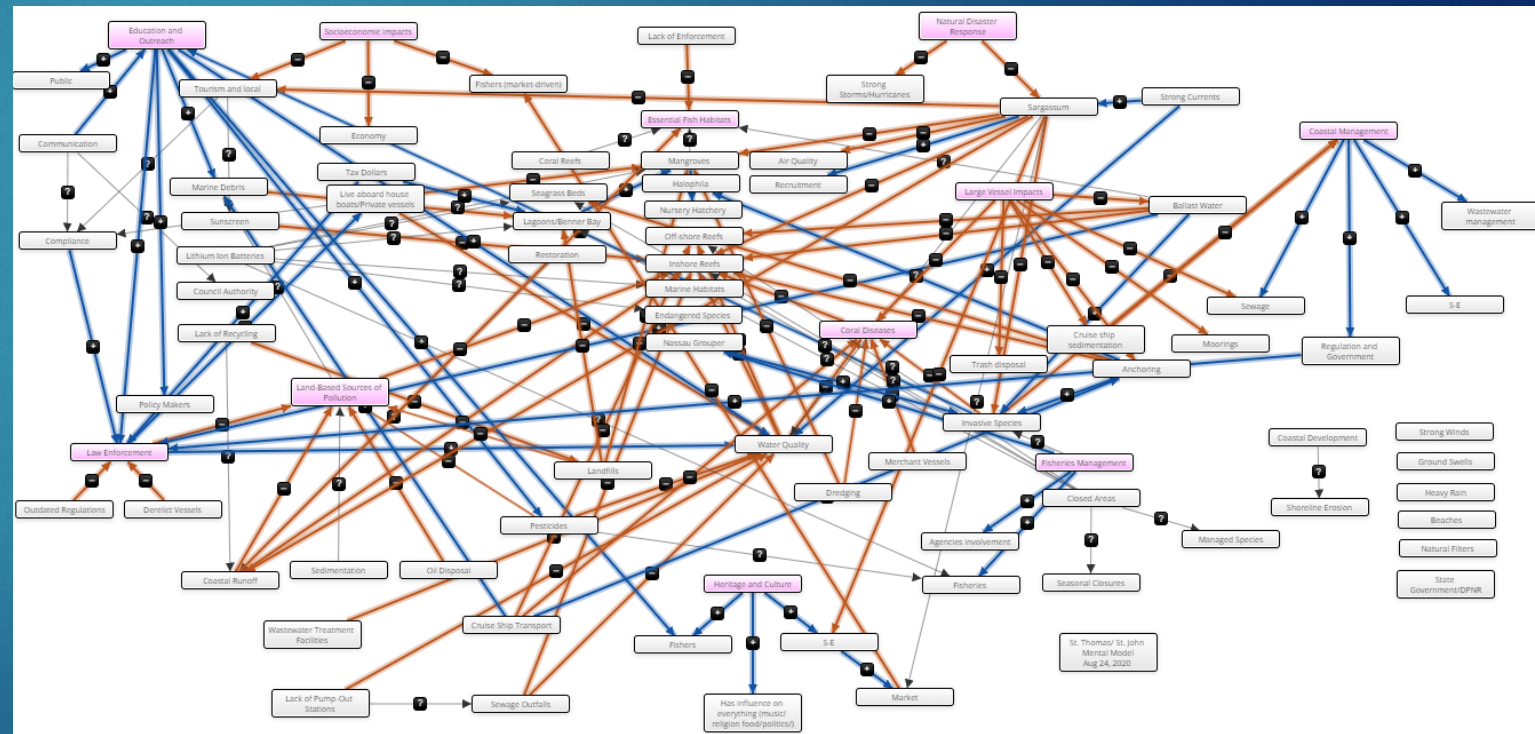
Addressed connections in relations to the top 11 key items (pink boxes).
Provided scores (High, Medium Low).

Enforcement
Water quality
Education and Outreach
Heritage and Culture
Natural Disaster Response
Socioeconomic Impacts
Essential Fish Habitats
Land-Based Sources of Pollution
Coastal Management
Coral Diseases
Large Vessel Impacts



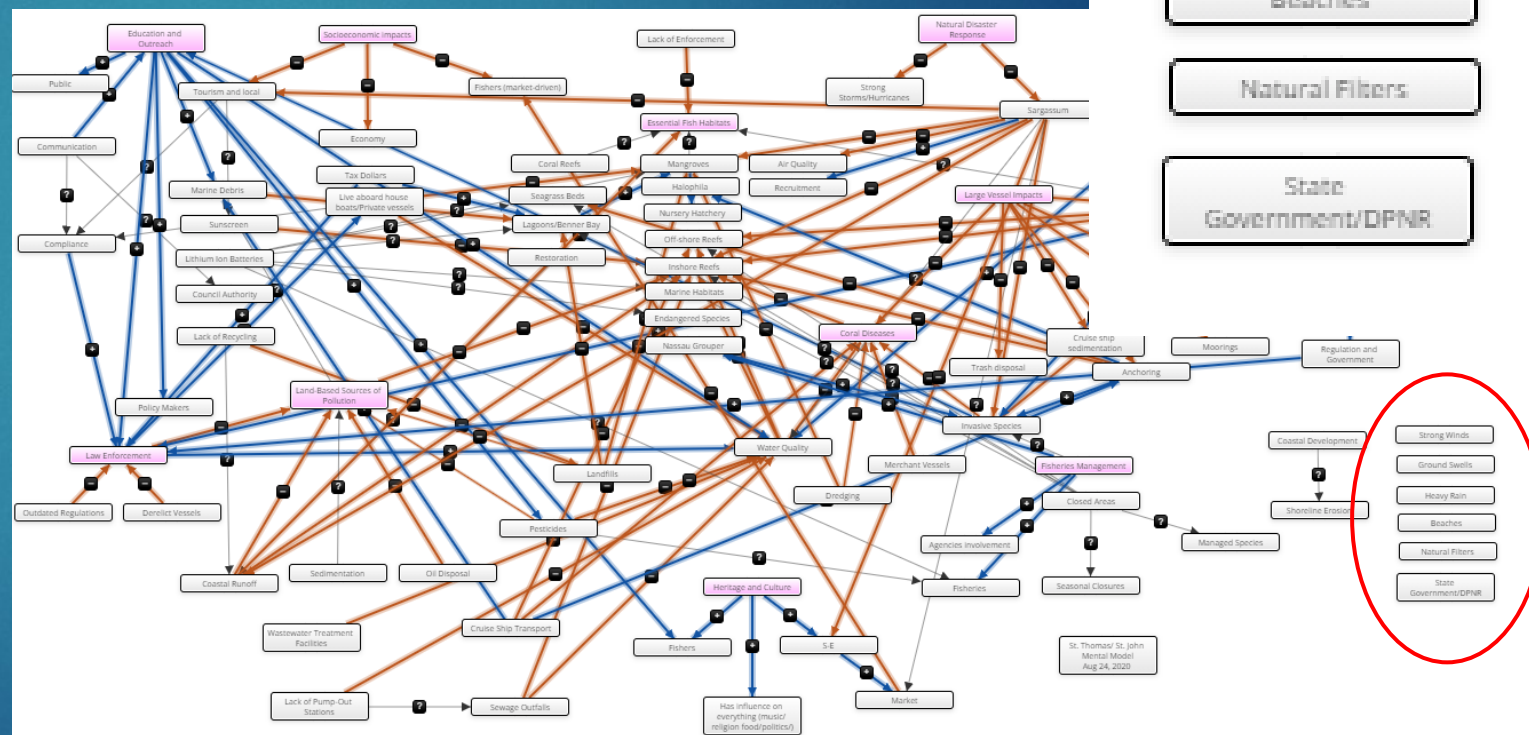
Up to date

Updated connections
Positive impacts (blue)
Negative impacts (orange)



Pending

-6 Loose boxes



Pending boxes DAP STT-STJ

Driving Component	Affected Component	Effect (pos/neg)	H/M/L scores by consensus	Magnitude (Mean based on H/M/L Scores)	MM value	Total number of Participants	Notes
Strong Winds							
Ground Swells							
Heavy Rain							
State Government/DPNR							
Beaches							
Natural Filters							

Today's work

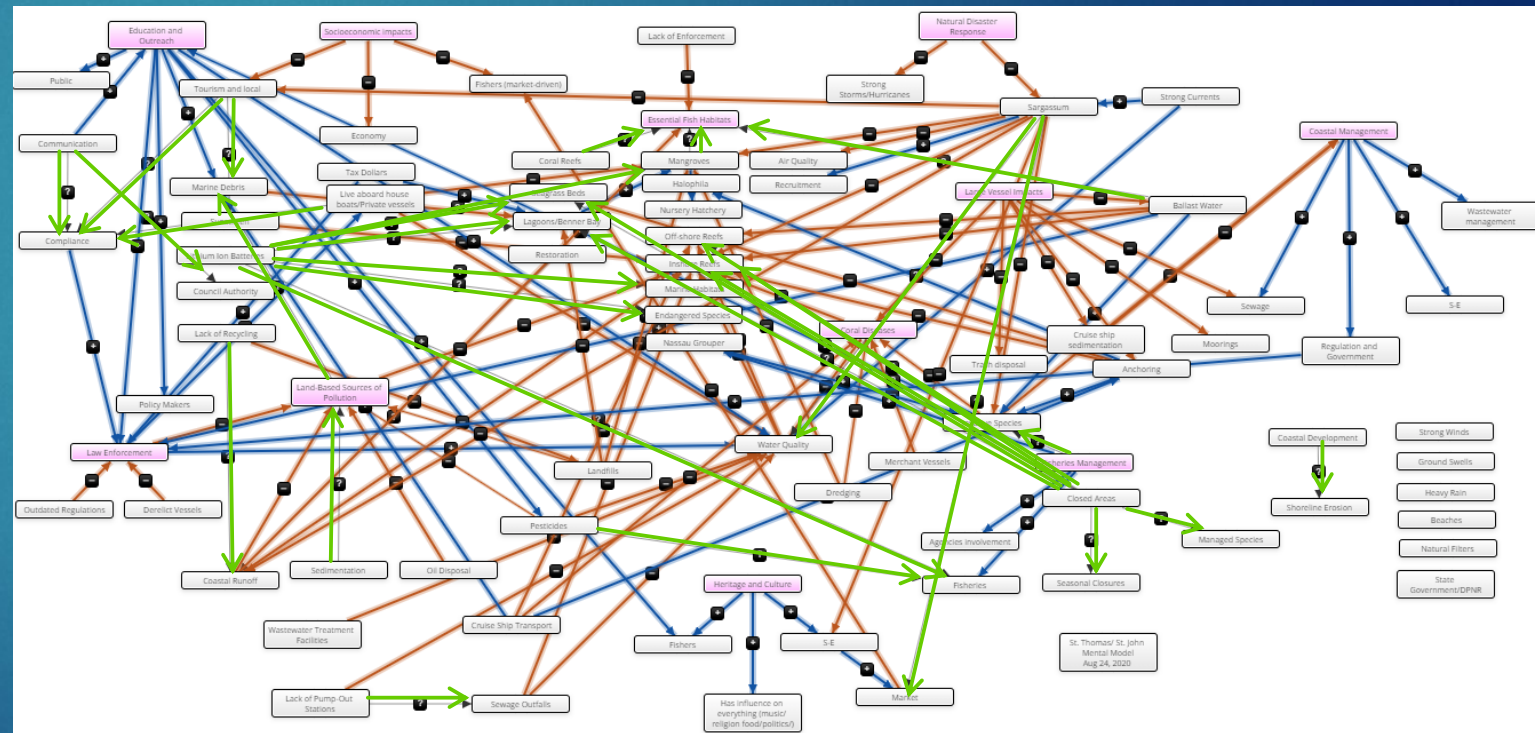
Development from August 26,
2020:

Connections

- 37 Positive high impact
- 55 Negative high impact
- 1 Positive medium impact
- 2 Negative medium impact
- 2 Negative low impact

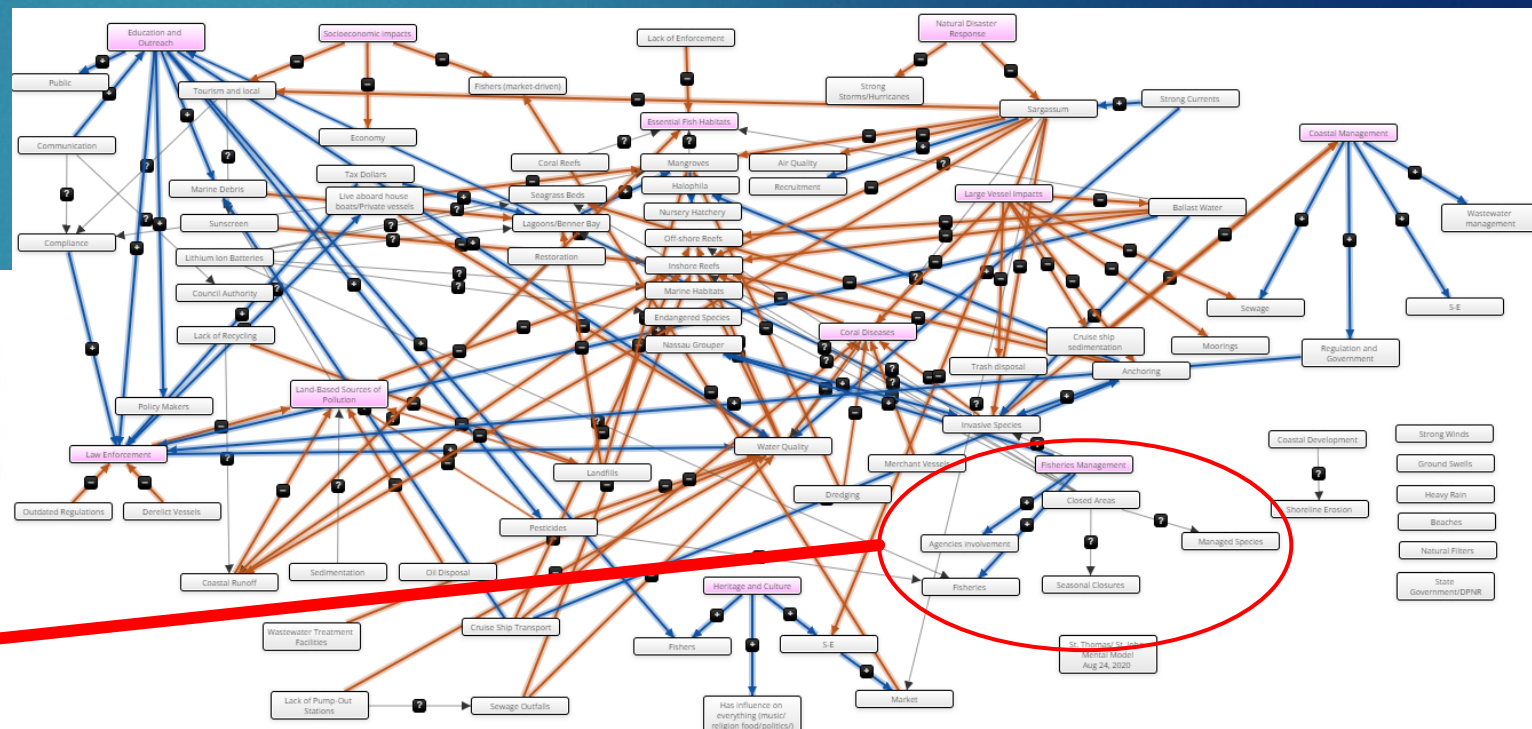
29 pending connections (green arrows)

Total of 127 connections



Pending DAP STT-STJ connections

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
Ballast Water	Essential Fish Habitat	?	?		
Closed Areas	Inshore Reefs	?	?		
Closed Areas	Lagoons/Benner Bay	?	?		
Closed Areas	Offshore Reefs	?	?		
Closed Areas	Seagrass Beds	?	?		
Closed Areas	Seasonal Closures	?	?		
Closed Areas	Managed Species	?	?		
Coastal Development	Shoreline Erosion	?	?		
Communication	Compliance	?	?		
Communication	Council Authority	?	?		
Coral Reefs	Essential Fish Habitat	?	?		
Fisheries Management	Invasive Species	?	?		
Lack of Pump-Out Stations	Sewage Outfalls	?	?		
Lack of Recycling	Coastal Runoff	?	?		
Land-Based Sources of Pollution	Marine Debris	?	?		
Lithium Ion Batteries	Endangered Species	?	?		
Lithium Ion Batteries	Fisheries	?	?		
Lithium Ion Batteries	Lagoons/Benner Bay	?	?		
Lithium Ion Batteries	Mangroves	?	?		
Lithium Ion Batteries	Marine Habitats	?	?		
Lithium Ion Batteries	Seagrass Beds	?	?		
Live aboard house boats/Private vessels	Compliance	?	?		
Restoration	Coastal Runoff	?	?		
Round Up/ Pesticides	Fisheries	?	?		
Sargassum	Water Quality	?	?		
Sargassum	Market	?	?		
Sedimentation	Land-Bassed Sources of Pollution	?	?		
Tourism and local	Compliance	?	?		
Tourism and local	Sunscreen	?	?		



Pending Fisheries model connections

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
Data Collection	Fisheries Management				
Data Collection	DFW				
Fisheries Dependent Sampling	Data Collection				
Fisheries Independent Sampling	Data Collection				
University of Virgin Islands	Data Collection				
University of Virgin Islands	Fisheries Independent Sampling				
Compliance	Fisheries				
Habitat	Fisheries				
Harvest Prohibitions	Fisheries				
Seasonal Closures	Fisheries				
Area Closures	Fisheries				
Fisheries	Recreational Fisheries				
Market	Commercial Fisheries				
Hook and Line	Commercial Fisheries				
Hook and Line	Recreational Fisheries				
Net	Commercial Fisheries				
Net	Recreational Fisheries				
Diving	Commercial Fisheries				
Diving	Recreational Fisheries				
Lobster	Commercial Fisheries				
Lobster	Recreational Fisheries				
Pelagics	Commercial Fisheries				
Pelagics	Recreational Fisheries				
Reef Fish	Commercial Fisheries				
Reef Fish	Recreational Fisheries				
Conch	Commercial Fisheries				
Conch	Recreational Fisheries				
Bait	Commercial Fisheries				
Bait	Recreational Fisheries				
Tourism	Recreational Fisheries				
Tourism	Market				