Atlantic Working Group

Overview

Partners and cases

- Friends of Port Mouton Bay
- Saint Mary's University
- Dalhousie University
- Memorial University
- University of Waterloo
- Fisheries and Oceans Canada
- Canadian Water Network
- Community Conservation Research Network
- Canadian Independent Fish Harvesters

- Cases (multiple scales, embedded)
  - Atlantic region (e.g., Taking Stock exercise, governance for rapid change, community visioning)
  - Nova Scotia (e.g., Port Mouton Bay)
  - New Brunswick (e.g., Musquash)
  - Prince Edward Island (e.g., Northumberland Strait)
  - Newfoundland (e.g., St. Anthony)

Core themes

Regional Assessment (wellbeing - ecosystem links)

Atlantic Working Group

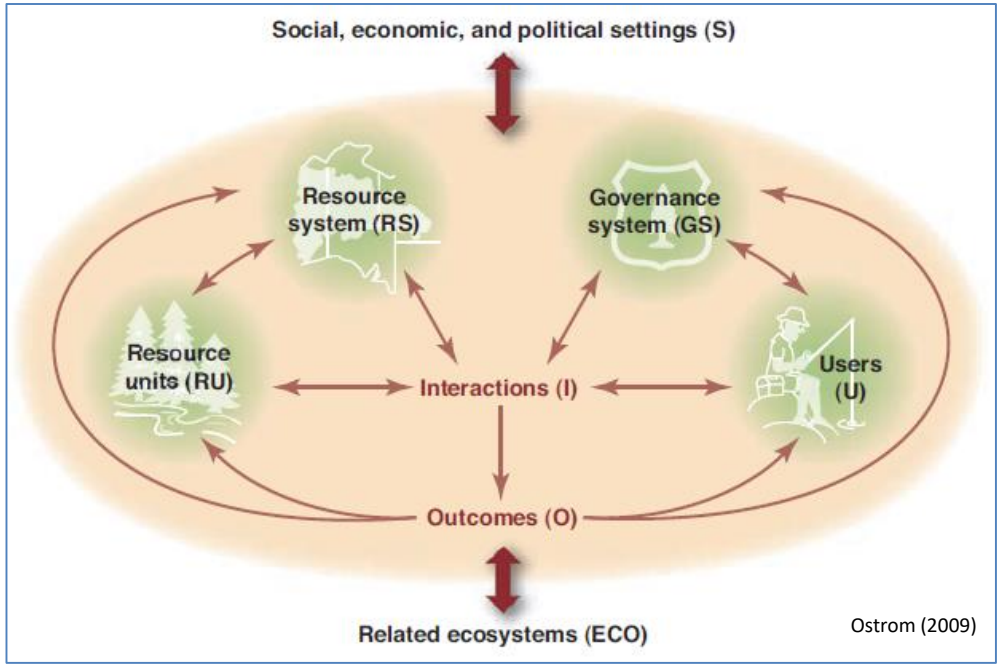
Thresholds and governance

Coastal adaptive capacity

Social-ecological visioning, modeling

Regional assessments (1)

- Taking Stock - Synthesis
  - Characterize marine social-ecological systems change in Atlantic region
  - Key concerns, challenges

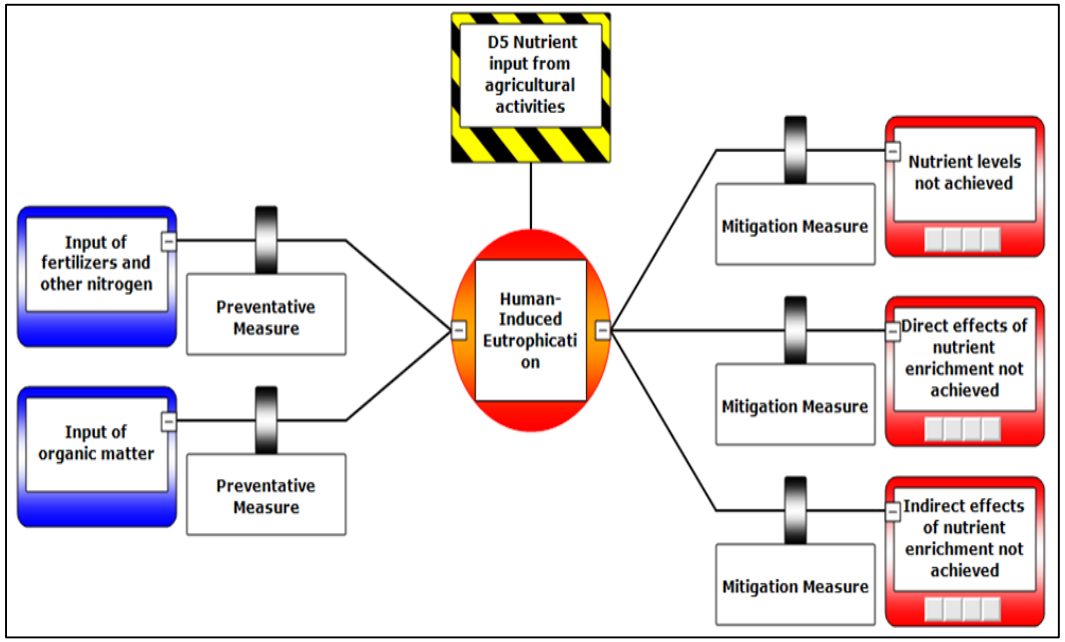


Ostrom (2009)

Alt: Horizon scan of regional ocean and coastal priorities and concerns

Regional assessments (2)

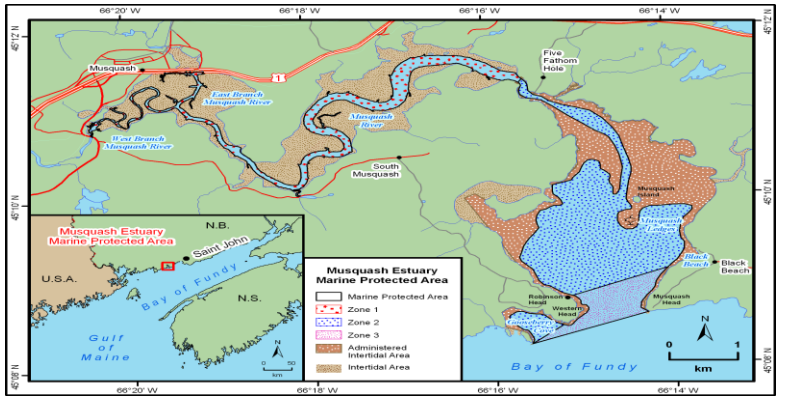
- Science-policy linkages
  - Canadian Water Network CWRC, NorSt-EMP and CAMP



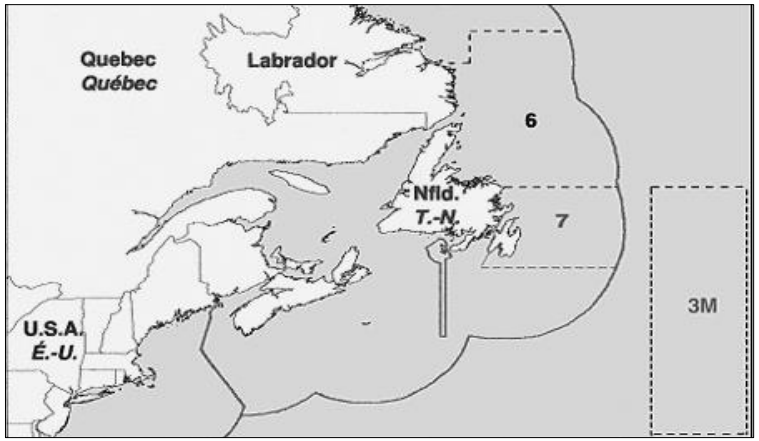
  - Improve future management plans, evaluate performance of management efforts
  - Bowtie analysis in Northumberland Strait

Regional assessments (3)

- MPA – wellbeing linkages
  - Existing, planned MPAs
  - Opportunity to scale-up



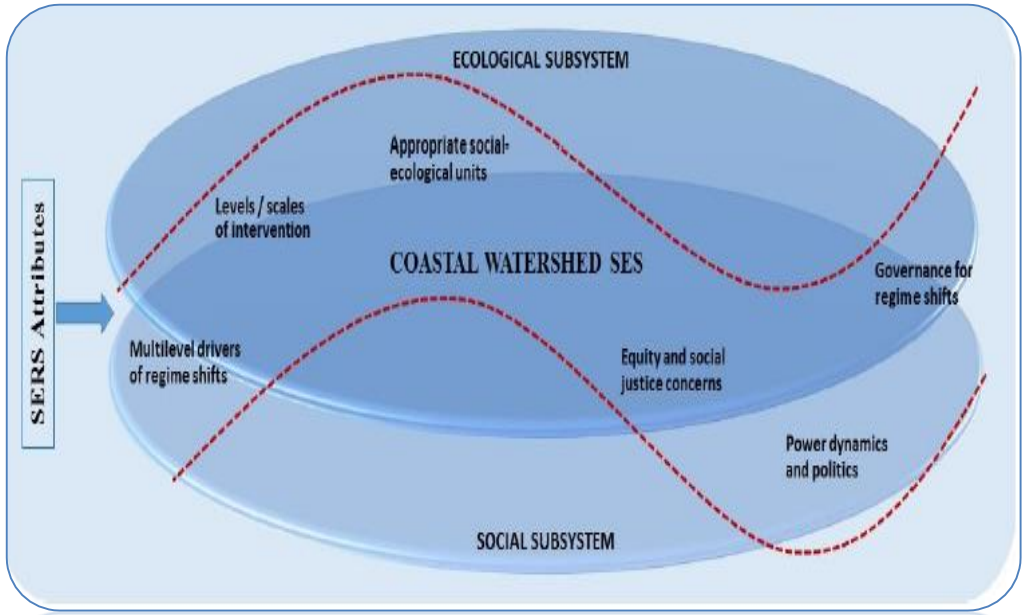
- Fisheries – wellbeing linkages (e.g., shrimp fishery, Nfld)
  - Changes in quotas, policy
  - Incentives and outcomes



Thresholds and governance

- Prediction and management of social-ecological thresholds in Atlantic coastal fishery systems

- Water Institute, University of Waterloo (‘Abrupt Changes in Coastal Watersheds and Governance Responses’)



Coastal adaptive capacity

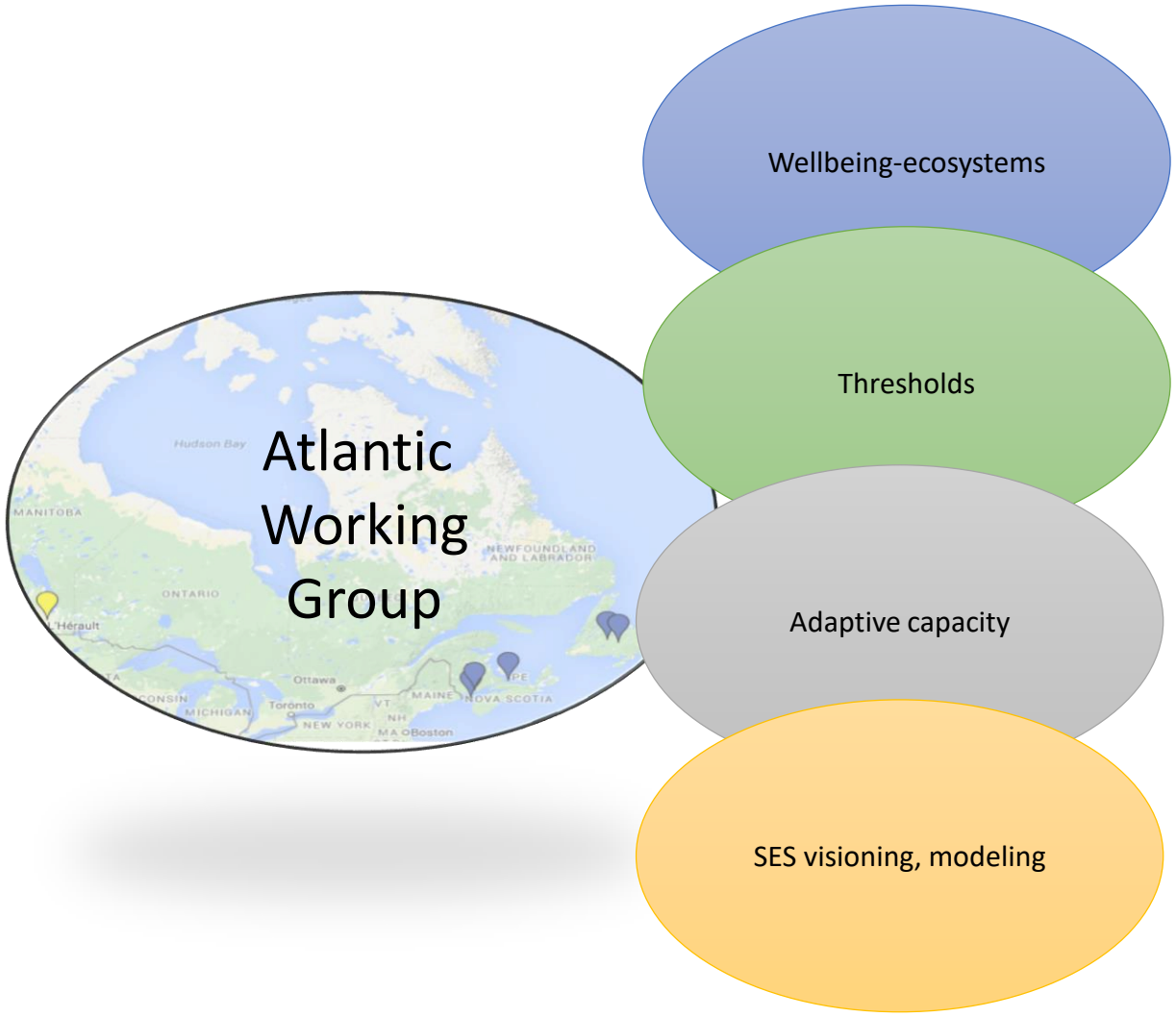
- Assessment of capacity for coastal climate change adaptation
  - Contributions based on ParCA project (systematic review of coastal community adaptation)
  - Capacity of coastal governance for CC adaptation
  - Adaptive Capacity Group/Pacific Working Group (Charlotte Whitney, Nathan Bennett, Natalie Ban)

Social-ecological visioning, modeling

- Port Mouton, Nova Scotia (and beyond)
  - Baseline studies (e.g., SWOT analysis, demographics, economic and livelihood activities)
  - Coastal community visioning (e.g., green economic futures; asset mapping)
  - Bio-socio-economic modeling, integrating and applying to the visioning activities
  - Survey of community visioning and modeling across Nova Scotia, eventually all Canada

- Ocean Modeling Forum (www.oceanmodelingforum.org)
  - Forage fish (Pacific herring)

Core themes and integration



Marine protected areas

Rapid change and governance at the land-ocean interface – integrated management

State of coastal communities (wellbeing, adaptive capacity)

Science-policy linkages for ocean and coastal decision making

Innovative tools, approaches (e.g., modeling, scenarios)

Port Mouton Bay, Nova Scotia

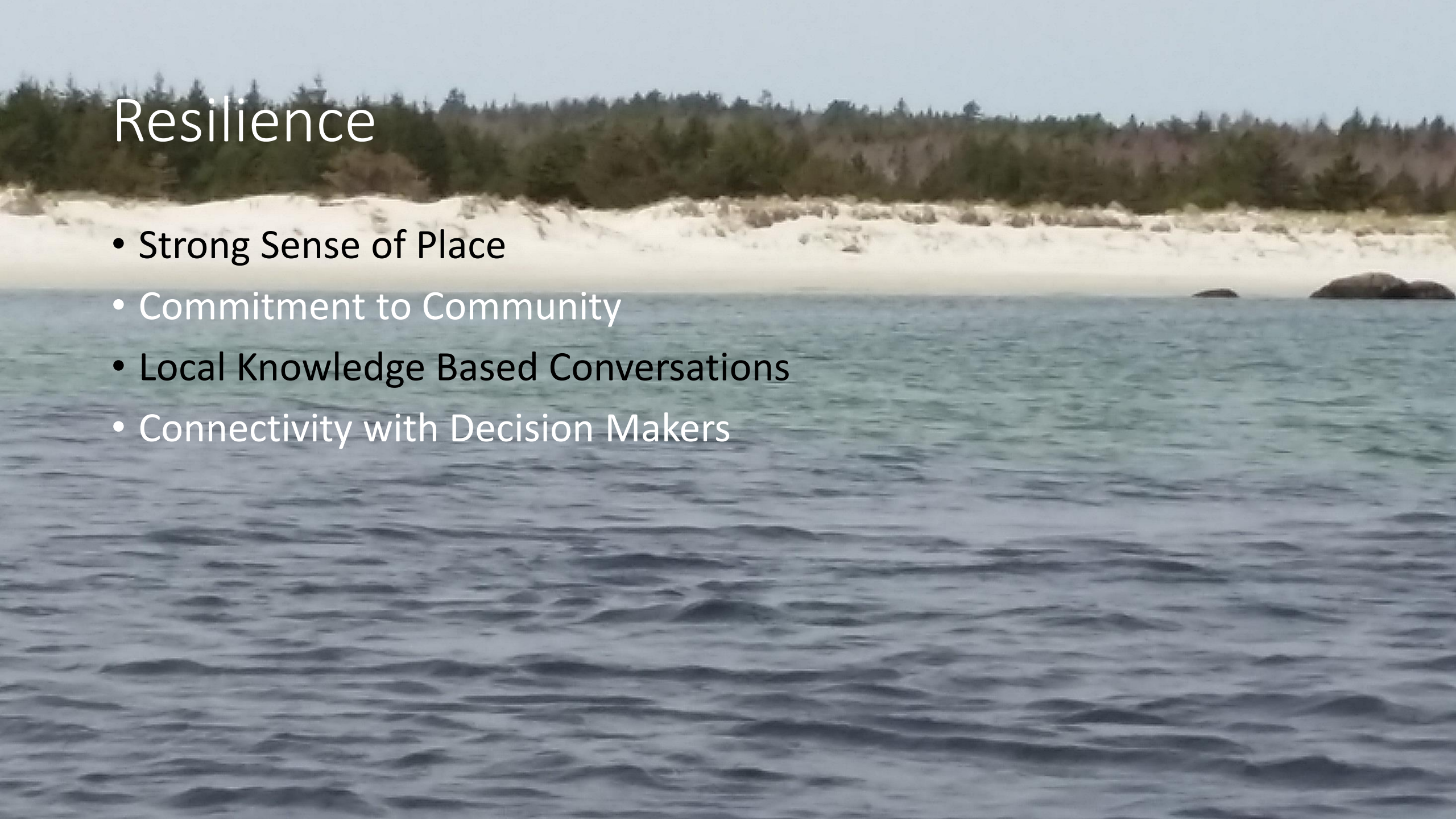
Evolving More Sustainably

Local Setting

- Atlantic Coastal Community
- Deep Historical Roots
- Ocean/Land Based Attributes
- Economic Dependence on Fishery

Current Challenges

- Aging, Declining, Shifting Population
- Rural Based Economy
- External Governance Decision Impacts
- Changing Character of Fishery



Resilience

- Strong Sense of Place
- Commitment to Community
- Local Knowledge Based Conversations
- Connectivity with Decision Makers

Community Successes

- Informed Opposition to Aquaculture
- Lighthouse and Nature Reserve
- Investment Confidence Indicators
- Internal/ External Partnerships

Pathway Ahead

- Environmental Management
- Regulation of Lobster Fishery
- Community Economic Development
- Coastal Land Use Planning
- Attachment to Place