### Getting Involved in MARINE SPATIAL PLANNING

#### Assessing Current Technical Capacity and Technical Capacity Needs

Vancouver – February 28, 2019 (pilot) Moncton – March 19, 2019, Halifax – March 20, 2019 Goose Bay – April 16, 2019, Nanaimo – April 25, 2019

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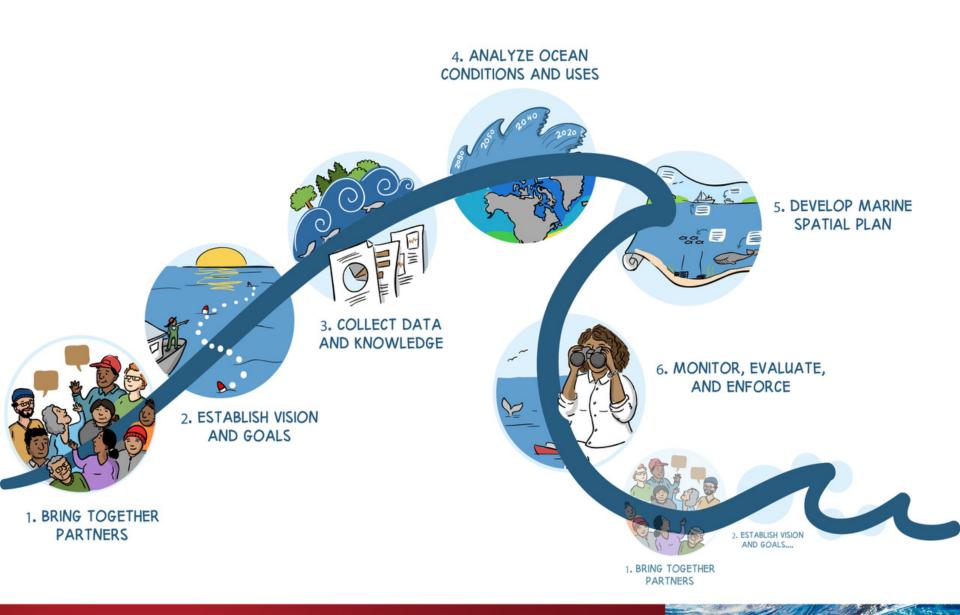
#### **Workshop Purpose**

- Marine spatial planning
  - Assessing technical roles, tools and training involved
  - Learning from Indigenous experiences
  - Discussing potential partnerships/collaborations
- Responds to what we've heard from groups/communities
  - May need technical capacity to participate in activities
  - Want opportunity to assess technical capacity, and technical capacity needs, BEFORE groups and communities get involved
- Acting on Indigenous Program Review recommendations
  - Build co-management capacity by investing in Indigenous knowledge systems

### **Marine Spatial Planning**

- What is it and why is it important?
  - Video, discussion paper, and infographic
- Where will it take place?
  - Across Canada
  - Pacific ocean/coastal areas (Salish Sea, North/Central Coast)
  - Newfoundland–Labrador Shelves, Gulf of St. Lawrence, and Bay of Fundy–Scotian Shelf
- How will Indigenous groups/communities be involved?
  - Two tables: Workshop relates to <u>technical only</u>
  - Infographic: Technical Roles, Tools and Training

#### MARINE SPATIAL PLANNING PROCESS



### Marine Spatial Planning: Technical Aspects

Collect data and knowledge





Analyze ocean conditions and uses

Monitor, evaluate and enforce



# Indigenous Experience: MSP Technical Roles Vancouver (pilot)

- Metlakatla First Nation Stewardship
  - Marine use planning and stewardship
- Coastal First Nations Northern Shelf region
  - Marine Protected Area Technical Team
    - develops communications materials, including website content, organizes stakeholder meetings
    - Interprets spatial analysis, leads discussion items and provides guidance to the planning process
  - Coastal Guardian Watchmen monitoring and protection
- Other Indigenous examples

### Indigenous Experience: MSP Technical Roles Moncton and Halifax

- Wolastogey Nation in New Brunswick
  - Fisheries biologist, GIS technician, environmental technician, ecologist, communications manager, ethno-historian, team of resource development consultation coordinators
- Kopit Lodge (Elsipogtog)
  - Project coordinator & researcher, ARC/GIS mapping director,
     website coordinator, proposal writer, environmental technicians
- Unama'ki Institute of Natural Resources
  - Executive director, Elder advisor, director of aquatic research & stewardship, research assistants, guardian liaison & coordinator, manager of communications & outreach

# Indigenous Experience: MSP Technical Roles Goose Bay

- Nunatsiavut Government
  - Community coordinators for Imappivut, Torngat Wildlife & Plants Co-Management Board
- Innu Nation
  - Environment office: fishery guardians, community knowledge coordinators
- NunatuKavut
  - Environment & Natural Resources department
  - Research, Education & Culture department
- Aquatic resource and oceans management groups
  - Elder advisor, GIS technicians, communications & outreach

### Indigenous Experience: MSP Technical Roles Nanaimo

- Some aquatic resource and oceans management groups
  - Elder advisor, GIS technicians, communications & outreach, community coordinators, project managers, guardians, data collection technicians, analysts, Indigenous knowledge experts
- IMAWG: Island Marine Aquatic Technical Working Group
- Pacific North Coast Nations
  - Marine use planning coordinators and community marine planning committees
- Coastal First Nations Northern Shelf region
  - Marine Protected Area Technical Team
  - Coastal Guardian Watchmen monitoring and protection

#### Marine Spatial Planning: Technical Roles

- How do you want to be involved? Which roles?
- Do you see other technical roles in marine spatial planning that you want to be involved in?
- Do you have capacity to fill these roles at present?
  - If so, how are they funded or supported (e.g., own source revenues, AAROM project funding, Aboriginal Fisheries Strategy, Provincial program, contracts, etc.)
- Could any of these roles be shared by neighbouring Nations and/or other partners?

# Indigenous Experience: MSP Technical Tools Vancouver (pilot)

- Metlakatla First Nation Stewardship
  - Marine use zoning maps
- Coastal First Nations Northern Shelf region
  - Coastal Guardian Watchmen "Coast Tracker"
  - Marine Protected Area Technical Team
- Beaufort Sea Partnership
  - Inuvialuit traditional and local knowledge catalogue
- Other Indigenous examples

## Indigenous Experience: MSP Technical Tools Moncton and Halifax

- Mi'gmawe'l Tpl'taqnn
  - NB Mi'gmaq Indigenous Knowledge Study Guide, re: initiation, timing and execution of Indigenous Knowledge studies
- Maliseet Nation Conservation Council
  - Traditional Knowledge Program
- Agence Mamu Innu Kaikusseht
  - Atlas of Indigenous sites and uses of the Saint Lawrence River
- Confederacy of Mainland Mi'kmaq
  - Online interactive map, re: barriers to migration, which allows partners to view data on culverts/determine if sites are barriers

# Indigenous Experience: MSP Technical Tools Goose Bay

- Nunatsiavut Government
  - Imappivut Marine Plan
  - Torngat Joint Fisheries Board: Labrador Inuit Knowledge
- Innu Nation
  - Special Marine Areas in NL (CPAWs activity)
  - Nametau innu: Memory and knowledge of Nitassinan
- NunatuKavut
  - Gilbert Bay Marine Protected Area
  - Re-storying NunatuKavut: Making connections through multigenerational digital storytelling

# Indigenous Experience: MSP Technical Tools Nanaimo

- Quatsino Sound Coastal Plan
  - Identifies marine ecological attributes, marine habitat types, biological features, areas of ecological significance
  - Helps governments manage BC foreshore/nearshore tenures
- Coastal Strategy for West Coast Vancouver Island
  - Describes shared vision and values for the area
  - Guides action priorities and plans, shared knowledge base and decision-support tools and models
- Project-specific Traditional Marine Resource Knowledge and Use Studies (T'sou-ke First Nation)
  - Describing and contextualizing knowledge, use, occupancy and interests of the Nation in relation to a proposed project
  - Using multi-generation Indigenous knowledge and experiences

### **Marine Spatial Planning: Technical Tools**

- What tools do you have and what do you need?
  - Are there other tools that you have or need?
  - Are there tools that you do not want?
- What are the top three tools needed and why?
- Could any of these tools be shared with neighbouring Nations and/or other partners?

# Indigenous Experience: Technical Training Vancouver (pilot)

#### • Certification:

- First Nations Stewardship Technical Training certificate
- Traditional Ecological Knowledge certificate
- Professional Specialization in Collections Management
- Environmental Technician Certificate program
- Canadian Aquatic Biomonitoring Network (CABIN)

#### Other training:

- Innu Nation Environmental Guardian Program training
- Eco-Canada: BEAHR Indigenous training programs
- Other Indigenous examples?

# Indigenous Experience: Technical Training Moncton and Halifax

- Certification/Diplomas:
  - Resource Stewardship Technical Training
  - Learning from Knowledge Keepers
  - Professional Specialization in Collections Management
  - Environmental Technology diploma (NBCC)
  - Canadian Aquatic Biomonitoring Network (CABIN)
- Other training:
  - Innu Nation Environmental Guardian Program training
  - Eco-Canada: BEAHR Indigenous training programs
- Other examples in Atlantic Canada?

# Indigenous Experience: Technical Training Goose Bay

- Certification/Diplomas:
  - Environmental and Regulatory Compliance Project Mgt. (NEIA)
  - Marine Spatial Planning & Ocean Mapping (Marine Institute)
  - Geomatics/Surveying (College of the North Atlantic)
- Other training:
  - Innu Nation Environmental Guardian Program training
  - Eco-Canada: BEAHR Indigenous training programs
- Other examples in Labrador or Nunatsiavut?
  - Komatik Training Solutions?

### Indigenous Experience: Technical Training Nanaimo

- Certification/Diplomas:
  - First Nations Stewardship Technical Training certificate (VIU)
  - Traditional Ecological Knowledge certificate (UNBC)
  - Professional Specialization in Collections Management (UVic)
  - Environmental Technician Certificate program (VIU)
  - Advanced Diploma in GIS (BCIT, VIU, Okanagan/Selkirk Colleges)
  - Certificate in Spatial Information Systems (SFU)
- Other training:
  - Eco-Canada: BEAHR Indigenous training programs
  - Coastal Stewardship training
  - Canadian Aquatic Biomonitoring Network (CABIN)

#### **Marine Spatial Planning: Technical Training**

- What training has already been taken by your staff?
  - Data collection, water quality testing, etc.
  - Indigenous knowledge / Working with Elders
  - Using geographic spatial information systems
  - Vessel safety, fishery guardian training
- What are the top five courses needed and why?
- Are there opportunities for Nation-to-Nation training and mentoring?

# Indigenous Experience: MSP Partnerships Vancouver (pilot)

- Coastal First Nations Northern Shelf region
- Beaufort Sea Partnership
  - Inuvialuit Council and other land claim councils and committees
  - Federal, territorial and municipal governments
  - Industries with interests in the area
- Other Indigenous examples:
  - Centre for Indigenous Environmental Resources (Water Governance Projects) – Polis Project on Ecological Governance

# Indigenous Experience: MSP Partnerships Moncton and Halifax

- Angotum partnership with Homarus and DFO
  - \$1.7M Coastal Restoration Fund project for artificial reefs (2019)
- Confederacy of Mainland Mi'kmaq with Restore America's Estuaries and DFO
  - \$1.2M Coastal Restoration Fund project for artificial reefs (2019)
- Mi'kmaq Alsumk Mowimsikik Koqoey Association
  - \$400K Coastal Restoration Fund + \$235K from Miawpukek First
     Nation to help protect the marine ecosystem in Conne River
- Other Indigenous examples: Beaufort Sea Partnership

# Indigenous Experience: MSP Partnerships Goose Bay

- Coastal and offshore components of the Akami-Uapishk<sup>U</sup>-KakKasuak-Mealy Mountains National Park
- Imappivut Marine Plan
  - Academic institutions, Bird's Eye Inc., Oceans North Canada
- Innu Nation
  - MOU with St. Mary's University to collaborate on research
- NunatuKavut
  - OceansAdvance: NL Ocean Technology Innovation Cluster
- Integrated Coastal and Oceans Management NL
  - Canada-NL Committee on Oceans Management

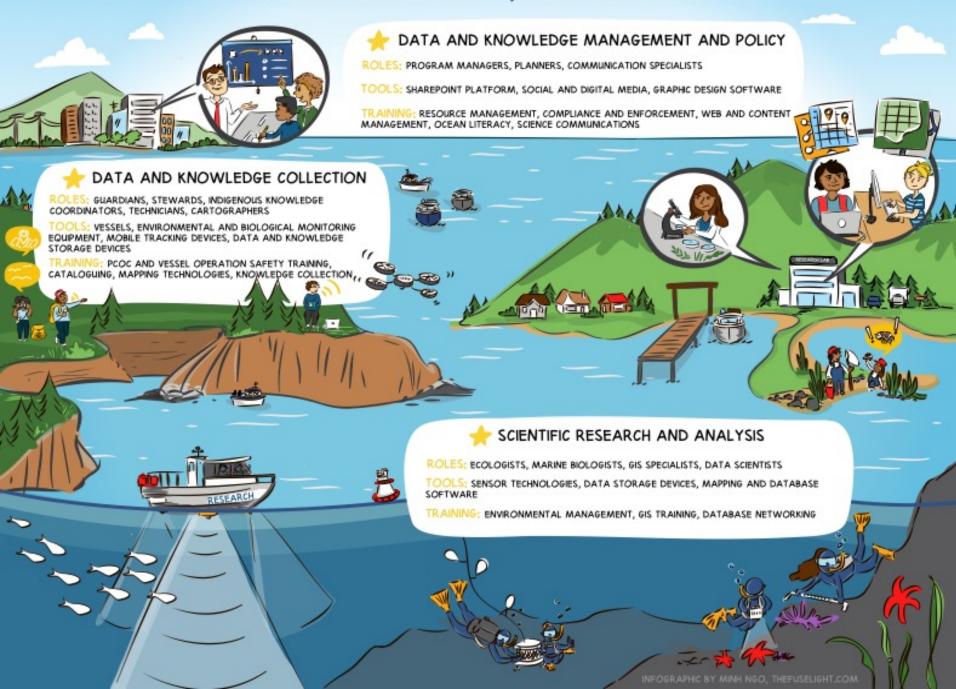
## Indigenous Experience: MSP Partnerships Nanaimo

- Coastal First Nations Northern Shelf region
  - Pacific North Coast Integrated Management Area
- Marine Plan Partnership (MaPP)
  - North Vancouver Island, Haida Gwaii, North Coast, Central Coast
- Coast-wide co-management framework (MOU)
  - Nuu-chah-nulth, Haida, Pacheedaht
- Aboriginal Mapping Network
  - EcoTrust Canada

### **Marine Spatial Planning: Partnerships**

- Are there partnerships or collaborations that could help build Indigenous technical capacity?
- Are there partnerships or collaborations that could help with unique Indigenous matters?
  - Develop a protocol for gathering, storing and using Indigenous knowledge
  - Develop and share guidelines / best practices for technical staff in terms of informing leadership decision-making and participation at marine spatial planning governance tables?
- Open Government / Cdn. Geospatial Data Infrastructure
  - Inventory of geospatial maps

#### MARINE SPATIAL PLANNING: TECHNICAL ROLES, TOOLS AND TRAINING



### **Assessing Technical Capacity: Next Steps**

- Multi-year funding to help Indigenous groups, gov'ts, communities build oceans management – marine spatial planning technical skills and capacities
- Engaging communities and groups in five general areas to gauge technical capacities and technical capacity needs
  - Discussion paper
  - Workshops between February and April 2019
  - Technical capacity report and What we Heard reports
- Website and social media presence: indigenousoceans.ca
  - Facebook: @indigenousoceans, Twitter: @indigenousocean