



# ***Beaufort Sea Strategic Regional Plan of Action***

***Northern Oil and Gas Research Workshop***

***Mackenzie Delta and Beaufort Sea***

***-Future Directions***

***November 1-3, 2005***

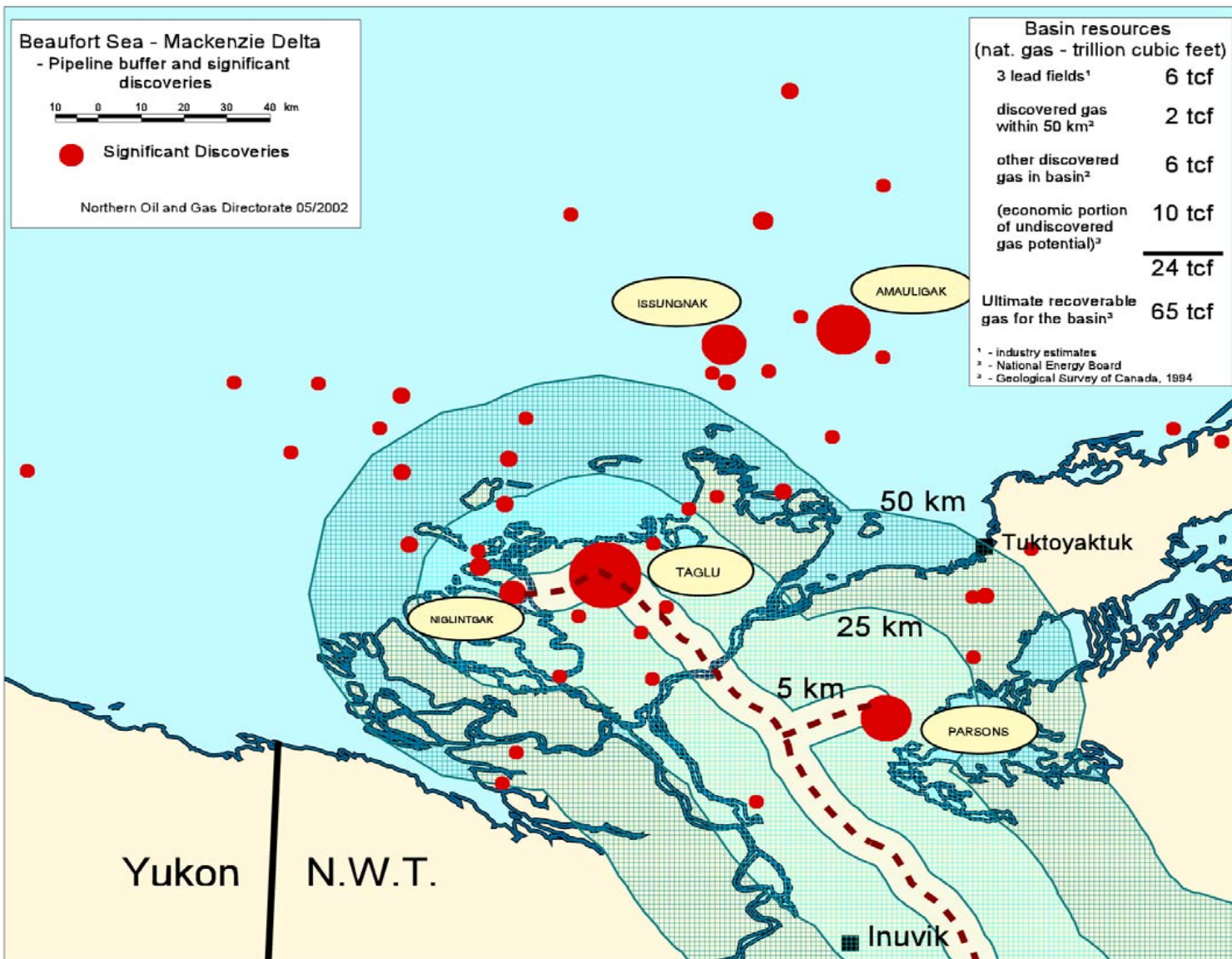
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# ***OVERVIEW***

## **PREPARING FOR DEVELOPMENT IN THE CANADIAN BEAUFORT.....**

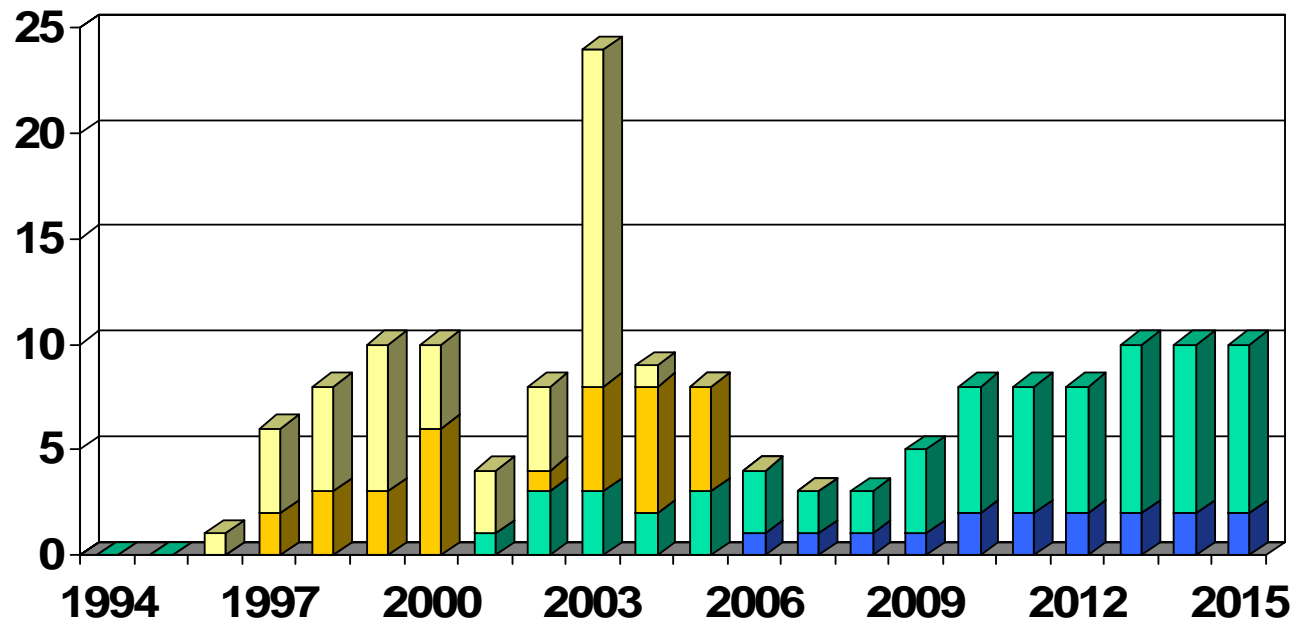
- **Where are we now?**
- **Where have we been?**
- **Where are we headed?**
- **What do we need to do to prepare?**





# ***DRILLING ACTIVITY***

■ Bsea ■ Mack Delta ■ Central Mac ■ South Mac







**WE'VE BEEN HERE BEFORE....**

# ***PAST AND CURRENT PROGRAMS***

- Past studies (BEMP, MEMP, BREAM, NOGAP, ESRF, PERD, BEARP and more)
- Ongoing programs (Beaufort Sea Strategic Regional Plan of Action, NWT CIMP, Oceans Action Plan, etc)
- Conservation planning (community conservation plans, BSIMPI, etc)
- Databases (ASTIS,ISR database, Tariuq, hydrocarbon impacts database, others)
- Lots and lots of research



# ***Context for future development***

## **Three main activities.....**

- **Mackenzie Gas Project (Imperial, ConocoPhillips, Shell, APG)**
- **Current and new exploration for new discoveries (Chevron, Encana, Devon)**
- **Assessment and development of existing and future discoveries**

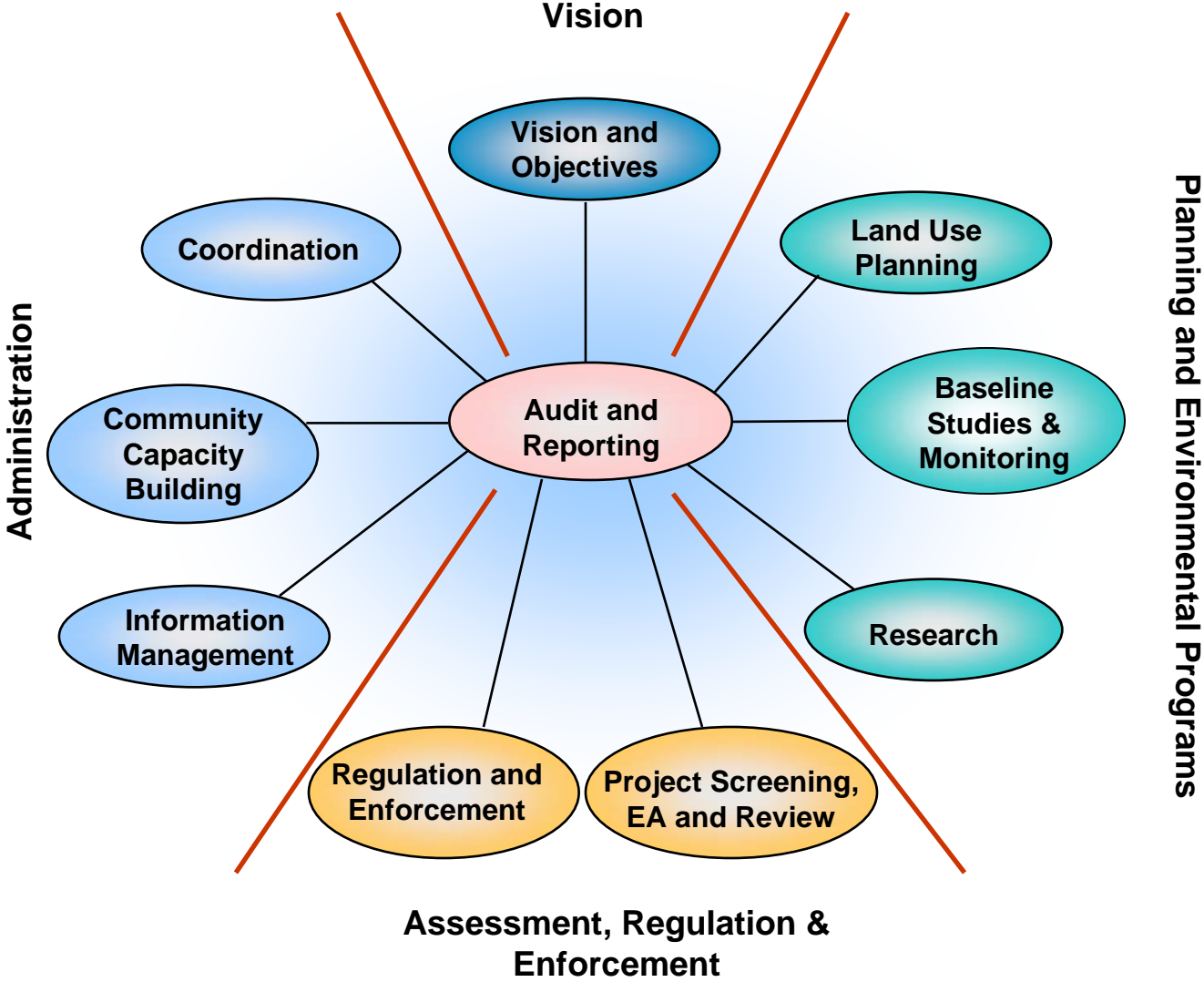


## ***Next Steps for the Beaufort Sea Strategic Regional Plan of Action: Three Categories of Actions***

- **Foundational Pieces**
- **Moving Forward**
- **Priority Actions**



# Environmental Management in the NWT



# ***NWT Cumulative Effects Assessment and Management Framework***

## Generic Framework

- NWT Framework
  - Blueprint

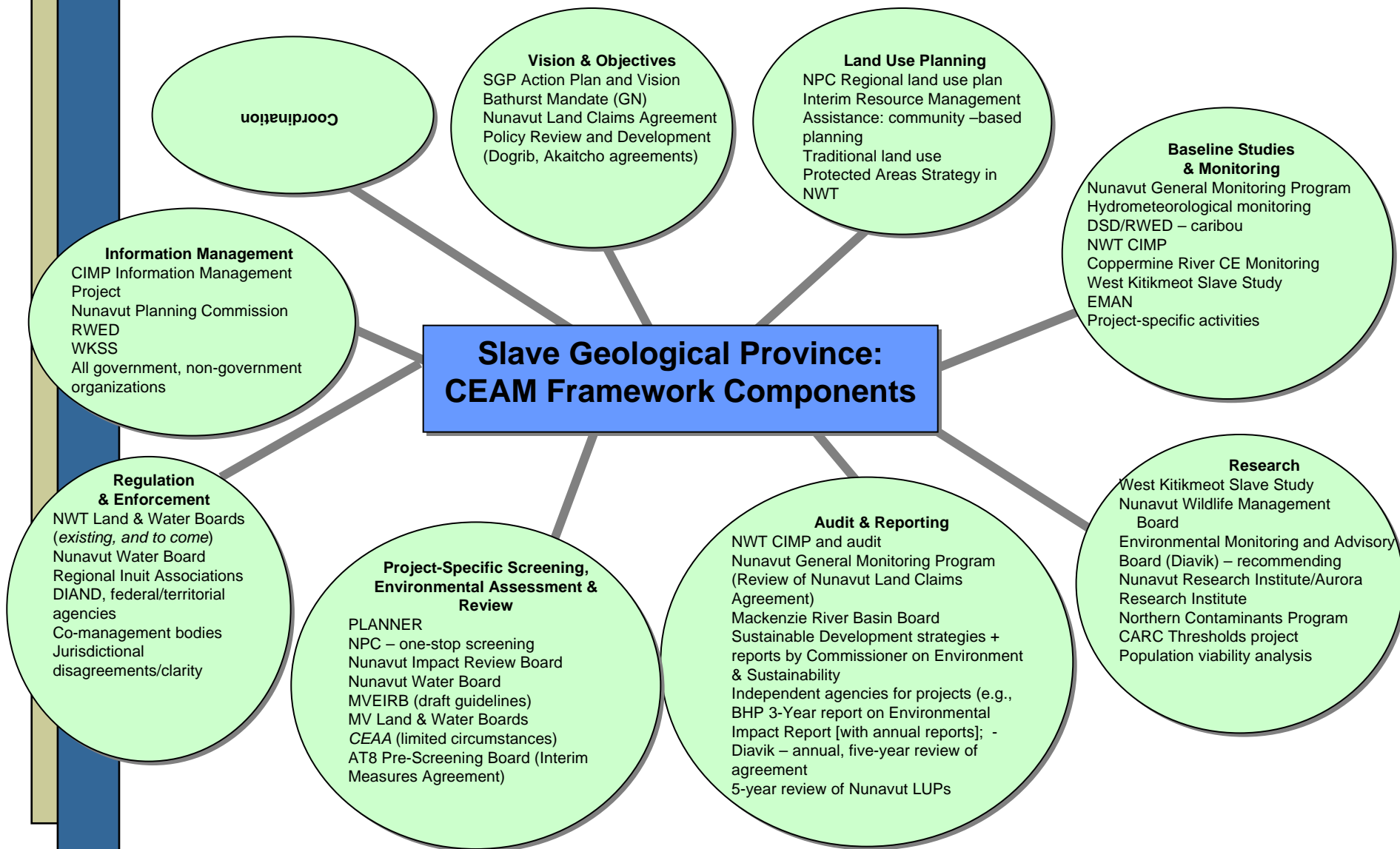
## Blueprint

- Current situation in Beaufort Sea
- Linkages and gaps
  - Responsible agencies
  - Priority Actions  
(BStRPA)



## Figure 2: SGP CEAM Framework Components

The nine framework components are shown below, with *examples* demonstrating how the current policy and legislative framework supports the individual components



# Slave Geological Province RPA

<b>Table 2: Gaps and Challenges – CEAM Framework Components in the Slave Geological Province</b>	
<b>Framework Component</b>	<b>Broader Gaps and Challenges</b>
<b><i>Vision and Objectives</i></b>	<ul style="list-style-type: none"> <li>An overall explicit vision and objectives for the SGP, its regions or communities does not exist, and consensus as to the core elements of such a vision and objectives has not been developed.</li> </ul>
<b><i>Land Use Planning</i></b>	<ul style="list-style-type: none"> <li>Land use plans have not been developed in the NWT portions of the SGP.</li> </ul>
<b><i>Baseline Studies and Monitoring</i></b>	<ul style="list-style-type: none"> <li>No overall regional CE research and monitoring framework has been developed, with key questions to guide the collection, analysis and management of information relating to baseline and changing environmental conditions.</li> <li>No comprehensive cumulative effects monitoring program has been implemented in either the Nunavut or NWT portions of the SGP.</li> <li>Coordination of the many different types of monitoring activities in the SGP is needed.</li> </ul>
<b><i>Research</i></b>	<ul style="list-style-type: none"> <li>There is no overall framework for regional CE research and monitoring in the SGP.</li> <li>Specific areas of cumulative effects research needed include: development of thresholds and carrying capacities; cause and effects of environmental change; and contribution of natural variability.</li> <li>There is a need for an integrated 'ecological approach'</li> <li>There is a need to study predicted and observed effects (through monitoring, auditing and reporting) of industrial projects.</li> </ul>
<b><i>Audit and Reporting</i></b>	<ul style="list-style-type: none"> <li>There is no 'state-of-the-environment' reporting system that collects information and evaluates it in terms of environmental trends, thresholds and carrying capacity.</li> <li>The NWT CIMP and Audit have yet to be implemented.</li> <li>A periodic audit of the status of various components of the CEAM Framework in the SGP is needed.</li> <li>There should be better coordination of environmental audit and reporting functions within the SGP.</li> </ul>
<b><i>Project-Specific Screening, Environmental Assessment and Review</i></b>	<ul style="list-style-type: none"> <li>There is no formal mechanism for addressing potential transboundary effects of individual development proposals around the border between Nunavut and the NWT</li> <li>Mechanisms must be developed for addressing the broad range of stressors contributing to cumulative effects, such as large/ small projects, communities/ municipalities, outfitting/ tourism, climate change, LRTAP, and natural variation.</li> <li>There is a need to consolidate findings of previous studies and ongoing monitoring into a regional CEA.</li> </ul>

# Slave Geological Province RPA

**Table 2: Gaps and Challenges – CEAM Framework Components in the Slave Geological Province**

<p><b><i>Regulation and Enforcement</i></b></p>	<ul style="list-style-type: none"> <li>• There is a need to strengthen the components of the CEAM Framework in order to assist regulatory agencies in their efforts to address cumulative effects.</li> <li>• Consideration needs to be given to the cumulative effect of those activities not subject to screening or environmental impact assessment.</li> </ul>
<p><b><i>Information Management</i></b></p>	<ul style="list-style-type: none"> <li>• A comprehensive information management system (IMS) is needed to support CEAM throughout the SGP.</li> <li>• IMS development activities already underway in both the NWT and Nunavut will need to be further integrated.</li> </ul>
<p><b><i>Coordination of the Regional Plan of Action and CEAM Activities</i></b></p>	<ul style="list-style-type: none"> <li>• No one organization or regulatory process has overall authority for coordinating cumulative effects assessment and management either regionally or at a territorial level.</li> <li>• Coordination on an inter-jurisdictional level of functions associated with the SGP Regional Action Plan is needed.</li> </ul>
<p><b><i>Traditional Knowledge/ Inuit Qaujimagatuqangit</i></b></p>	<ul style="list-style-type: none"> <li>• More effort is needed to ensure that TK/ IQ and conventional science are both used as complementary sources of information in all of the components of the CEAM Framework in the SGP.</li> </ul>
<p><b><i>Community and Organizational Capacity Development</i></b></p>	<ul style="list-style-type: none"> <li>• It has not been determined how costs associated with resource needs for implementing the SGP Regional Plan of Action will be covered and allocated.</li> <li>• Education and employment training is needed in the communities. Training needs to be provided that allows for diversified employment opportunities.</li> </ul>

## ***BStRPA: Foundational Pieces***

- **‘Lessons Learned’, e.g.:**
  - **Beaufort EARP**
  - **Slave Geological Province RPA**
  - **Research and monitoring programs (BEMP, MEMP, NOGAP, ESRF, PERD, etc)**
- **Determine ‘State of Knowledge’**
- **Develop communications approach, including initial web site**
- **Refine development scenarios (ongoing)**



# ***BStRPA: Moving Forward***

- **Governance**
  - **Steering Committee established, lead by Joint Secretariat**
  - **Hiring of project coordinator underway**
  - **Detailed workplan evolving**
  - **Initial research projects identified**



## ***BStRPA: Priority Actions***

### **Generally:**

- **Develop community capacity to fully participate in environmental management**
- **Develop a regional plan of action, including lead agencies**
- **Implement the action plan**

### **More specifically:**

- **Address specific knowledge gaps**
- **Establish a prioritized, coordinated and collaborative research and monitoring program**



## ***BStRPA: Priority Actions (cont'd)***

- **Sensitive area mapping**
- **Information management**
  - **Inventories**
  - **Accessibility**
  - **Coordination**
- **Reviews**
  - **'best practices' offshore technology**
  - **regulatory framework**
  - **regulatory road map**
  - **research road map**
- **Gaps analysis: emergency preparedness and response**



# ***CONCLUSIONS***

To ensure that we have “responsible economic development within a sound environmental management framework” we need to remember that:

- We’ve been here before;
- We’ve learned (and forgotten) a lot;
- We need to know what we know;
- We need to involve communities fully;
- Partnership in planning and implementation is essential;
- Without capacity there can be no partnership; and
- We need to (re)start yesterday.





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**BStRPA website (in prep)**

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