## Evaluating the Models for Working Together





#### Presentation Outline

- International Approaches
- Canadian Approaches
- Fraser Basin Council
- Barriers
- Factors for Success
- Principles

"Water is not a commercial product like any other but, rather, a heritage which must be protected, defended and treated as such" (EU News, March 21, 2003)

"The politics of scarcity is giving way to the politics of sustainability. The myth of unlimited sources of new [water] supply...is yielding to the reality that existing supplies must be managed, protected and wisely allocated. Recognition is also spreading that water supply management...is part of the larger context of multiple purpose water resource and land management" (Platt and Morrill, 1997)

## INTERNATIONAL APPROACHES

#### International Approaches

#### Watershed Agencies

- United Kingdom Environment Agency/Planning Areas
- France Water Agencies
- Australia Integrated Catchment Management
- Africa Catchment Management Agencies
- New Zealand Regional Councils
- Rhine River International Commission for the Protection of the Rhine
- Nile River The Nile Basin Initiative
- Mekong River Mekong River Basin Commission

#### International Trends

European Union – European Water Policy 2000 – Water Framework Directive

"[It is] The most significant legal instrument in the water field to emerge from Brussels for some time and will have a profound effect on how water is managed in Europe over the next 25 years." (Chave, 2001).

#### The Murray-Darling Basin

- Spans four states in Eastern Australia
- Extends over 1.06 million square kilometers covering 14% of Australia
- Includes much of Australia's best farmland

#### The Murray-Darling Basin Initiative

The largest integrated catchment management program in the world.

#### The Murray-Darling Basin Agreement (1992):

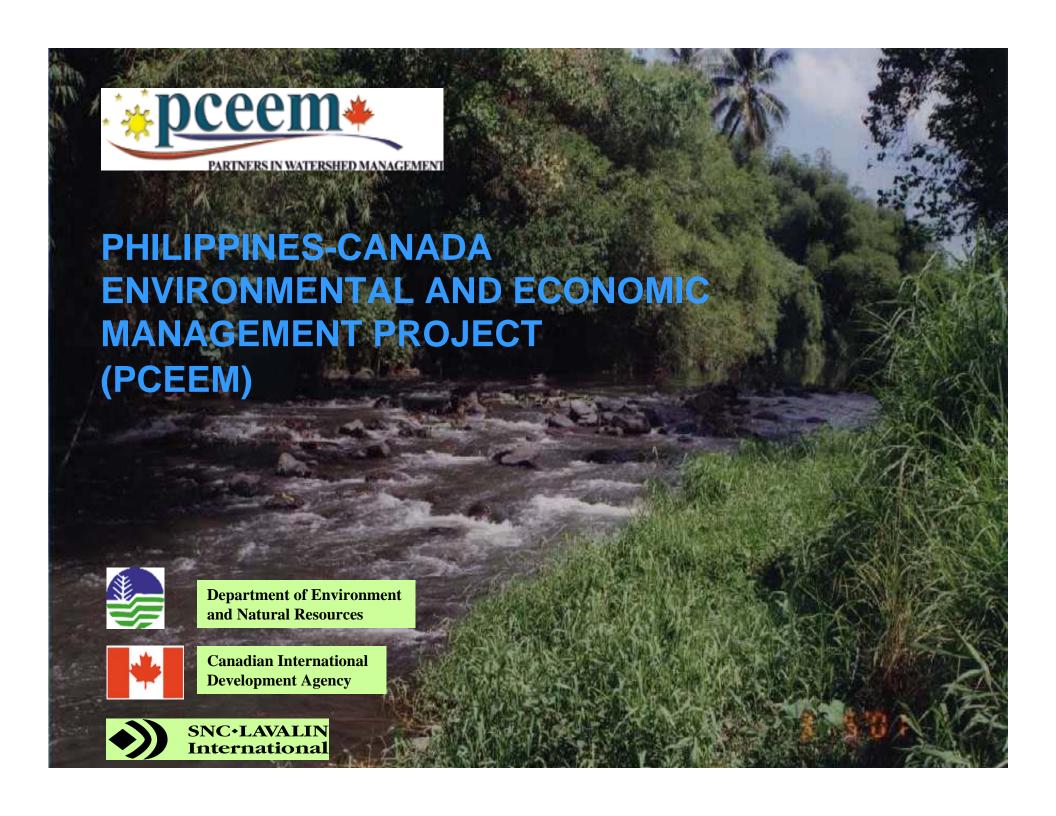
"to promote and co-ordinate effective planning and management for the equitable, efficient and sustainable use of the water, land and other environmental resources of the Murray-Darling Basin".

#### Key Elements of the Initiative

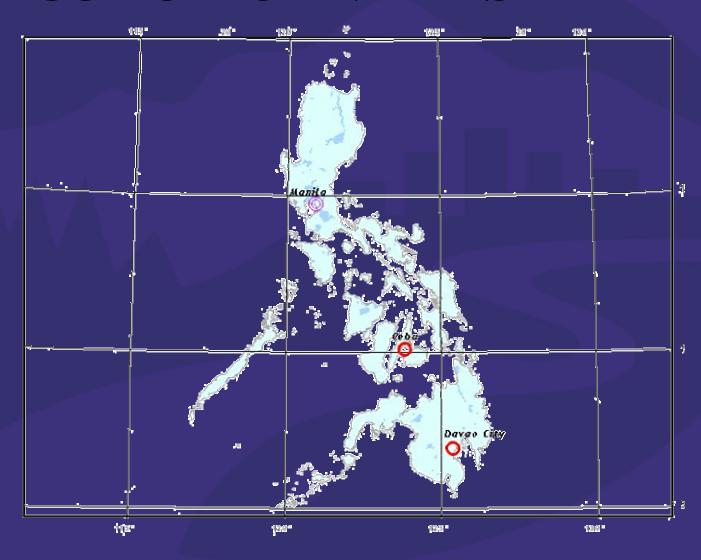
- •the Murray-Darling Basin Ministerial Council, the *Initiative*'s decision making forum.
- the Community Advisory Committee, which provides the Ministerial Council with advice and provides a two-way communication channel between the Council and the community..
- the Murray-Darling Basin Commission, the executive arm of the Ministerial Council which advises the Council and carries out its decisions.

## The Murray-Darling Basin Commission Functions:

- to advise the Ministerial Council in relation to the planning, development and management of the Basin's natural resources;
- to assist Council in developing measures for the equitable, efficient and sustainable use of the Basin's natural resources;
- to coordinate the implementation of, or where directed by Council to implement, those measures; and
- to give effect to any policy or decision of the Ministerial Council.



#### PROJECT CENTRES



#### Project Goal

To promote effective governance in public and non-government sectors, with focus on environmental management.

## Key Results or Impact

Improved management of environmental issues by public and nongovernment sectors, resulting to ecological health of the chosen watersheds.

#### Project Purpose

To contribute to the improvement of the management of the watershed ecosystems in Metro Cebu and Davao City

## Key Results or Outcome

Watershed management and maintenance undertaken by selfsustainable, transparent, representative, accountable and multisectoral management boards in Metro Cebu and Davao City that are able to resolve conflicts.

## CANADIAN APPROACHES

#### Canadian Approaches

- Canada Constitution Act
- Canada Water Act
- Federal Water Policy

"The federal government endorses an integrated approach to planning and development of water resources...Increasingly, watersheds are becoming the preferred spatial unit for water resource planning. It is an approach that makes sense at any scale of planning..." (Environment Canada, 1987).

## Canadian Approaches

- British Columbia Freshwater Strategy 1999; Watershed Restoration 1994-2002; Living River (pending)
- Alberta Water Act 1999; Framework for Water Management Planning 2001; Water for Life 2003
- Saskatchewan Watershed Authorities Act, 2001;
   Saskatchewan Network of Watershed Stewards, 2000
- Manitoba Watershed Conservation Districts, 1972
- Ontario Conservation Authorities, 1946
- Québec Water Policy, 2002
- Nova Scotia Drinking Water Strategy, 2002

#### Analysis

- Federal Water Policy is not actively promoted
- Watershed planning recently endorsed
- Ontario Conservation Authorities have a long tradition and experience – a review by Conservation Ontario has revealed many lessons learned
- Triggers water allocation; drought; degraded water quality; contaminated drinking water; flooding
- Multi-stakeholder, collaborative approach embraced

#### The Grand River

- A Canadian Heritage River
- Southern Ontario's largest watershed (7000 km²)
- Almost a fifth of the watershed is still largely natural, and of outstanding recreational and educational value
- 78% of the watershed is in agricultural use

#### The Grand River Conservation Authority's business is:

#### Watershed Management

- Reducing Flood Damages
- Improving Water Quality
- Providing Adequate Water Supply
- Protecting Natural Areas
- Watershed Planning

### Recreation & Environmental Education

#### Vision

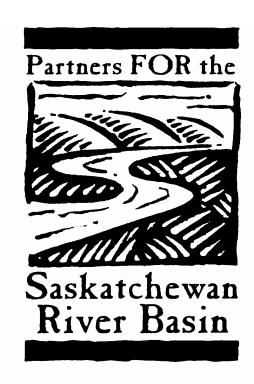
The vision is one of leadership in ensuring a healthy and sustaining relationship between the natural environment of the Grand River watershed and the demands on this environment by all forms of life.

#### Mission

The mission is to work with partners to conserve the natural processes and resources that support a safe and healthy environment for future generations in the Grand River watershed.

#### The Saskatchewan River Basin

- International watershed; 3 prairie provinces
  - Covers 4 ecological regions;
  - 1,220 km long; 435,000 sq. km
  - More than 3 million people, mostly urban
    - 30% of the Nelson River is from the Saskatchewan River Basin
    - Prairies water-rich in the North only



#### The Mission

Promoting watershed sustainability through awareness, linkages and stewardship.

An environmental citizenship program to increase awareness, knowledge and commitment to sustaining the basin Develop and implement projects with the assistance from stewards across the Basin

#### Governance/management

- Partners' Board geographic/sector diversity
- Program Staffing 1.5 person years
- Registered Non-Profit Charity
- Managing partner: Meewasin

#### Funding

- Some sustaining grants
- Memberships
- Project grants
- Fee for Service

#### The Bow River

- The Bow River is part of the South Saskatchewan River system.
- The Bow River is the largest tributary of the South
   Saskatchewan River accounting for about 21 percent of
   the drainage area that flows into the South Saskatchewan
   River.
- The Bow River has a drainage area of approximately 25 000 km<sup>2</sup>.
- In 2001, approximately 1,050,090 people lived in the Bow River basin and by 2011 population is expected to reach approximately 1.14 million.

#### Mission and Purpose

The Bow River Basin Council Society (BRBC) is a multistakeholder charitable organization dedicated to conducting activities for the improvement and protection of the waters of the Bow River Basin, considering:

- riparian zones
- aquatic ecosystems
- quality and quantity of water,
- and effects of land use on surface and groundwater.

#### 12 Member Board of Directors

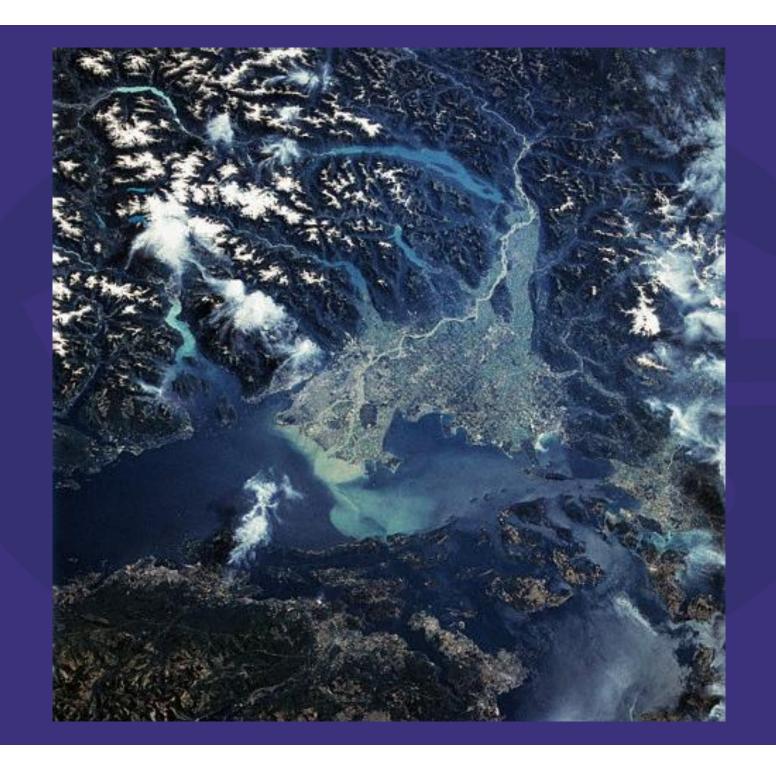
#### Board Members are elected

- 2 from each of the following 6 categories
- Commercial and Industrial Members
- Licensee Members
- Municipal Government Members
- Non-profit Interest Groups and Academia
- Members
- Regulatory, Administrative and First Nations Members
- Individual Public Members

#### Issues and Initiatives

- Emerging Water Quality Issues in the Bow River Basin
- State of the Bow River Basin Report
- Protecting Riparian Areas
- Upper Elbow Project
- Urban Stormwater Management Project
- South Saskatchewan River Basin Water Management Plan

# Fraser River Estuary Management Program [FREMP] 1985-2004



## Fraser River Estuary Management Program FREMP

- FREMP is a partnership for integrated management working toward sustainability
- FREMP emphasizes co-operative 'made-in-the-region' policy solutions
- FREMP coordinates the environmental review of project proposals that can affect the environment

#### Partners in FREMP

- Environment Canada
- Fisheries and Oceans Canada
- British Columbia Ministry
   of Water, Land and Air Protection
- Greater Vancouver Regional District
- Fraser River Port Authority
- North Fraser Port Authority

#### FREMP Achievements

- FREMP Estuary Management Plan [EMP]: *A Living, Working River* 1994
- EMP endorsed by FREMP municipalities
- Area Designation Agreements
- Sediment Budget to manage dredging
- Habitat classification and GIS capability
- Indicator Monitoring Report on the Estuary Management Plan 2001

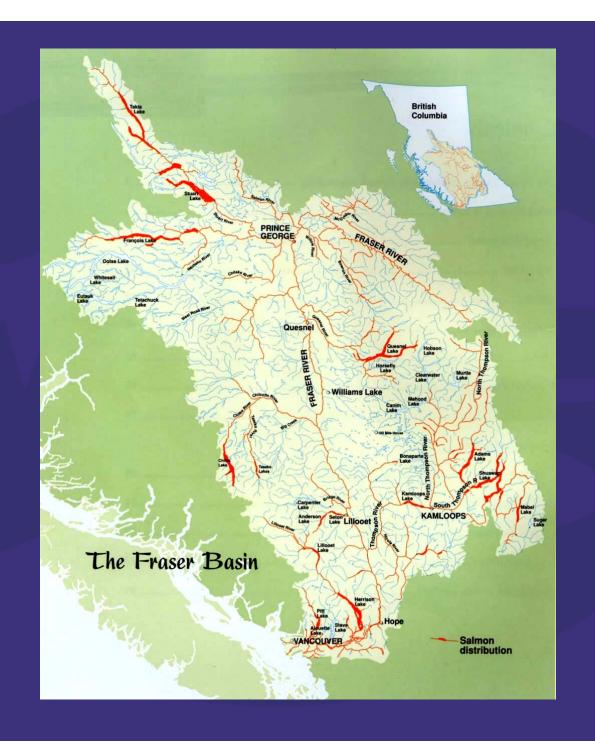
## Estuary Management Plan Actions

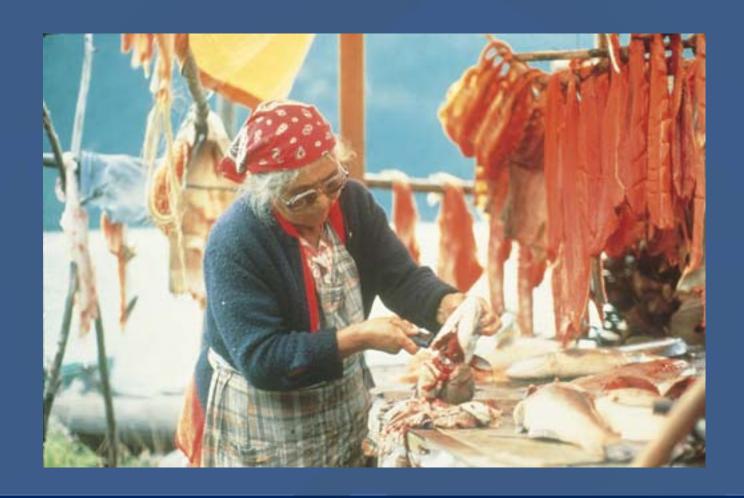
- Environmental Protection
  - Water Quality Management
  - Fish and Wildlife Habitat
- Human Activities
  - Navigation and Dredging
  - Log Management
  - Industrial and Urban Development
  - Recreation

#### The Fraser River Basin











# Fraser Basin Council's Origins

## Pre 1992 Challenges

- Decline in Fish Stocks
- Unacceptable Pulp Mill Effluents
- Limited Sewage Treatment
- Lack of Coordinated Planning and Management

## Pre 1992 Responses

- Canada's Green Plan
- The Fraser River Action Plan
- The Fraser River Cities Coalition
- The Fraser Basin Management Program Start-up Committee

#### 1992 - 1997

- The Fraser Basin Management Board
- The Charter for Sustainability
- The Fraser Basin Council

# Fraser Basin Council's Mandate & Structure

#### What is the Fraser Basin Council?

- A fully autonomous not-for-profit, nongovernmental organization
- Trans-partisan and non-political
- A unique organization with a unique model of governance
- Formed in 1997 to implement the Charter for Sustainability
- Consensus Based Decision-Making

## The Fraser Basin Council: A Unique Collaborative Governance Model

- A balanced and flexible partnership, comprised of:
- •"4 Orders" of Canadian Government (Federal, Provincial, Local, First Nations)

•+

Private Sector

•+

Civil Society

## Fraser Basin Council Board Structure

#### **36 Director Board:**

- Federal Government (3)
- Provincial Government (3)
- Local Government (8)
- First Nations (8)
- Regional Civil Society Representatives (10)
- Basin-Wide Civil Society Representatives (4)

#### Fraser Basin Council Board of Directors and Staff

June 2003





## How is the Fraser Basin Council Financed?

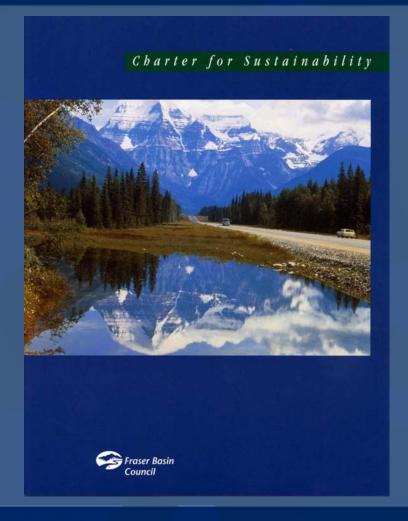
- Core funding currently shared on a 1/3 basis among Federal, Provincial and Local Governments
- Additional contributions from corporations, foundations and individuals
- Fee for Service work
- Bi-annual State-of-the-Fraser Basin Conferences

## Typical Fraser Basin Council Roles

- Catalyst
- Impartial Facilitator
- Jurisdiction and Conflict Resolution Agent
- Sustainability Educator
- Resource in Support of Informed Dialogue & Decision-Making

## Rationale for Collaborative Leadership

- Multi-disciplinary and multi-interest collaboration is mandatory in order to find integrated solutions to sustainability problems
- Capitalizing on existing competencies of others is more costeffective than developing such competencies internally
- Transparent and inclusive decision-making that seeks to address concerns of those affected typically:
  - Gives rise to more complete and enduring solutions
  - Reduces the likelihood of conflict and interventions later
  - Promotes more harmonious communities
  - Enhances public trust in governments and the private sector







A Vision for the Fraser Basin:

"Social well-being supported by a vibrant economy and sustained by a healthy environment."



# Fraser Basin Council's Work

- Problem Solving
- Reporting

## Getting Ready for "The Big One"

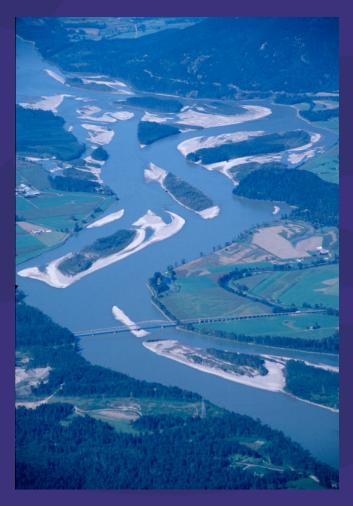
## Issue: We are unprepared for the next major Fraser River flood

Floodplain of the Lower Fraser River



### River Management

Issue: Rising Riverbed threatens human safety



#### Waterborne Debris Management

Issue: Fraser River debris trap funding instability



### Drinking Water Protection

Issue: Is Drinking Water being provided in a safe and cost effective manner?



#### Nechako Environmental Enhancement

Issue: The need for a more natural flow regime



### Nutrient (Manure) Management

Issue: Excessive manure disposal on farmland is contaminating groundwater

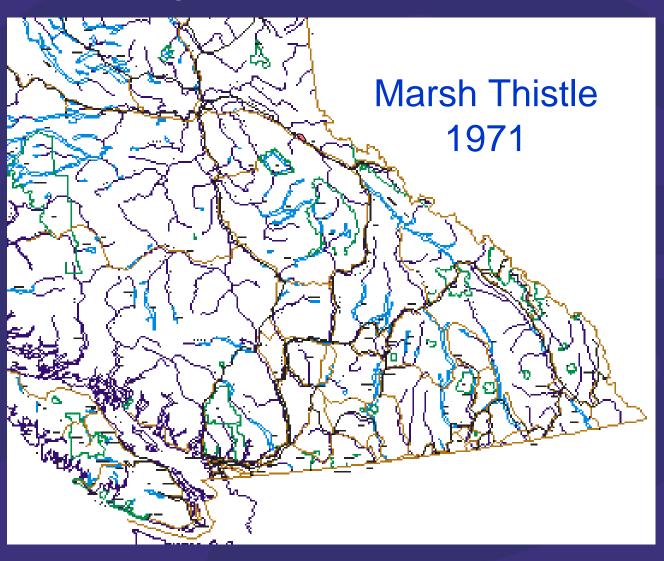


#### **Invasive Plants**

Issue: The uncontrolled spread of invasive plants will devastate BC's economy and environment



## History of Marsh Thistle



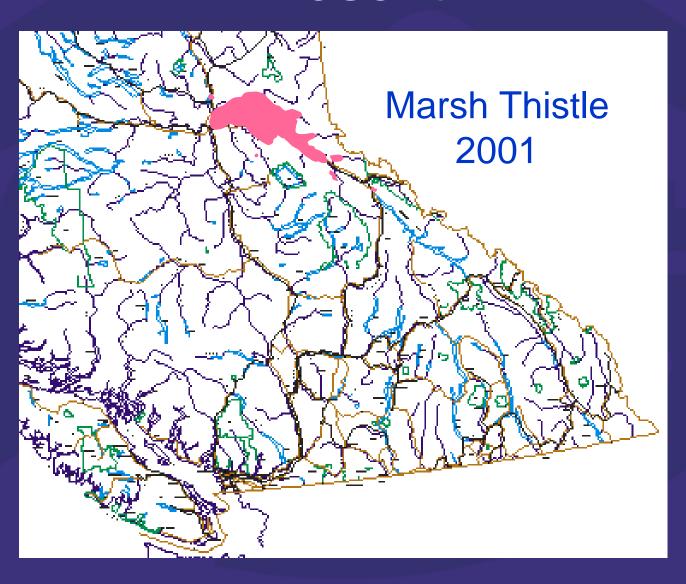
## History



## History

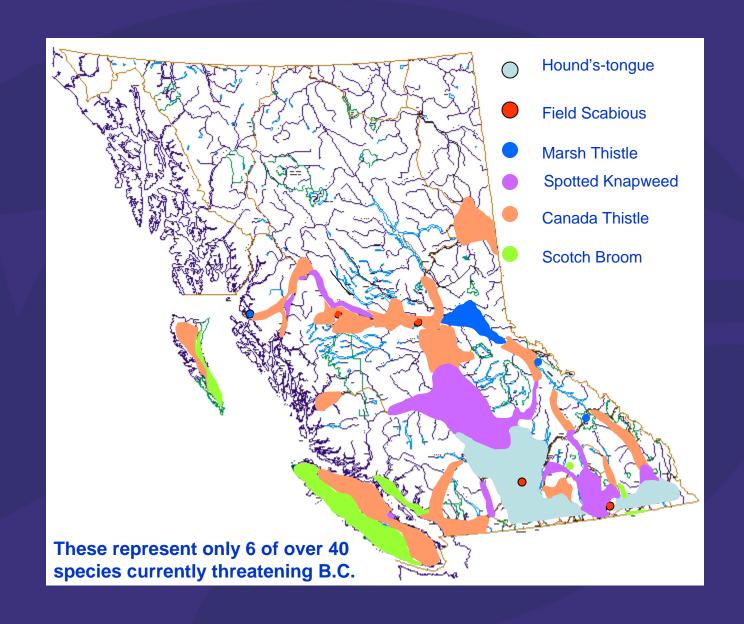


### Present



#### Future?

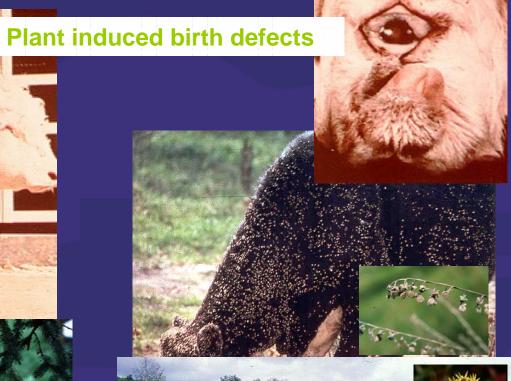




#### **Health - Animals**









#### Health & Safety - Human





Corridor site lines

Hay fever

**Allergies** 



## Enhancing Aboriginal / Non-Aboriginal Relationships

Issue: Sustainability depends on positive working relationships among aboriginal and non-aboriginal communities.



## Measuring & Reporting on Basin Sustainability

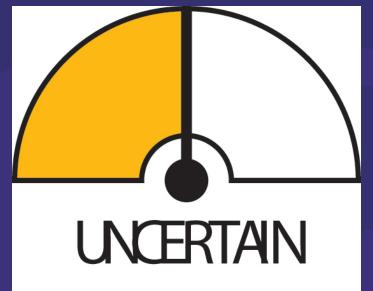
Issue: How is the Basin doing, and how can we work together to make it more sustainable?



## Sustainability Gauges







#### Institutional Considerations

## People Working Together: A Few Keys to Success

### Prerequisites for Successful Partnerships

- All parties willing to come together in good faith
- Hard positions replaced by informed perspectives
- "Egos parked at the door"
- Common interest in achieving sustainable solution
- Commitment to delivering on the outcomes and decisions
- Commitment to dialogue and "win-win" outcomes

#### Moving from Debate to Dialogue

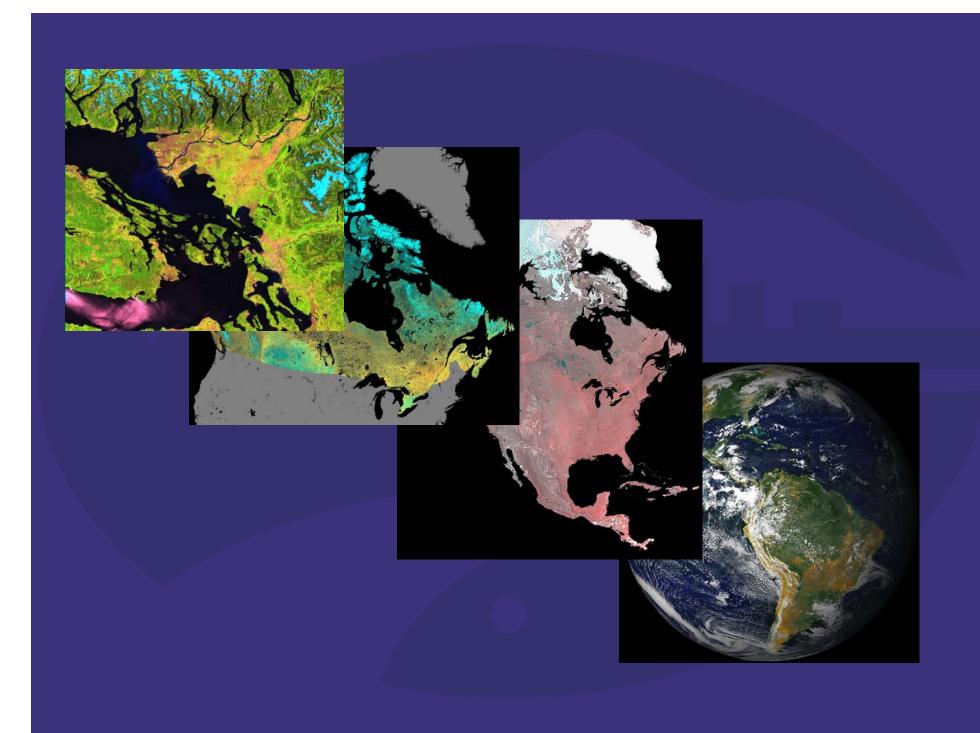
#### **DEBATE:**

- 1. Assuming that there is only one right answer and you have it
- 2. Listening only to try to find flaws in the logic of the speaker
- 3. Defending your assumptions (louder if they are weak)
- 4. Criticizing the other person's point of view
- 5. Seeking an outcome that agrees with your position

#### **DIALOGUE:**

- 1. Assuming that others have something to add to the process
- 2. Listening with empathy as a basis for understanding and respect
- 3. Bringing up your assumptions for discussion and examination. Helping others to surface their own assumptions
- 4. Re-examining all points of view, looking for common ground
- 5. Acting creatively.
  Finding/discovering new possibilities, creating new opportunities





#### Barriers

- Lack of sustainable funding
- Excessive bureaucracy
- Weak environmental legislation
- Lack of up-to-date watershed data and useful decisionsupport tools
- Lack of technical expertise and/or technical assistance

#### Barriers

- Politics, competing interests and societal inequalities
- Fragmentation of responsibilities among agencies
- Resistance to change
- Lack of monitoring and evaluation procedures
- Unrealistic expectations

#### Factors for Success

- Political Endorsement
- Enabling Legislation
- Sustainable Funding
- An Integrated Inter-Disciplinary Approach
- Clear Visions, Goals, Objectives and Action Items
- Good Data, Appropriate Technical and Analytical

#### Factors for Success

- Skills, and Useful Decision-Support Tools
- A Common Language for Decision-Making
- Shared Action Plan, Incentives to Undertake Action;
   Community Successes
- Public Involvement and Partner Collaboration
- Dynamic leadership

#### Principles

- Clear decision-making framework that looks across scales and that is based on the best scientific and technical information available.
- An adaptive, participatory approach with the authority to make decisions at the lowest level.
- A wide range of legal, economic, social and communication tools and approaches (Tellus Institute 2003).



#### **Fraser Basin Council**

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