



# **Commission on Ecosystem Management: its activities and possibilities to Canada**

**Liette Vasseur  
CEM North America, vice-chair**



## CEM Mandate

- **Mission**
- To provide expert guidance on integrated approaches to the management of natural and modified ecosystems to promote biodiversity conservation and sustainable development.
- **Objective**
- To promote the adoption of, and provide guidance for, ecosystem approaches to the management of landscapes and seascapes and build resilience of socio-ecological systems to address global changes.



## Ecosystem Approach

- Strategy for the **integrated management** and restoration of land, water and living resources.
- It promotes **conservation and sustainable use** in an equal, participatory and decentralized manner.
- It integrates **social, economic, ecological, and cultural aspects**, in a geographical area defined by ecological limits.



# CEM Priority Areas 2017-2020



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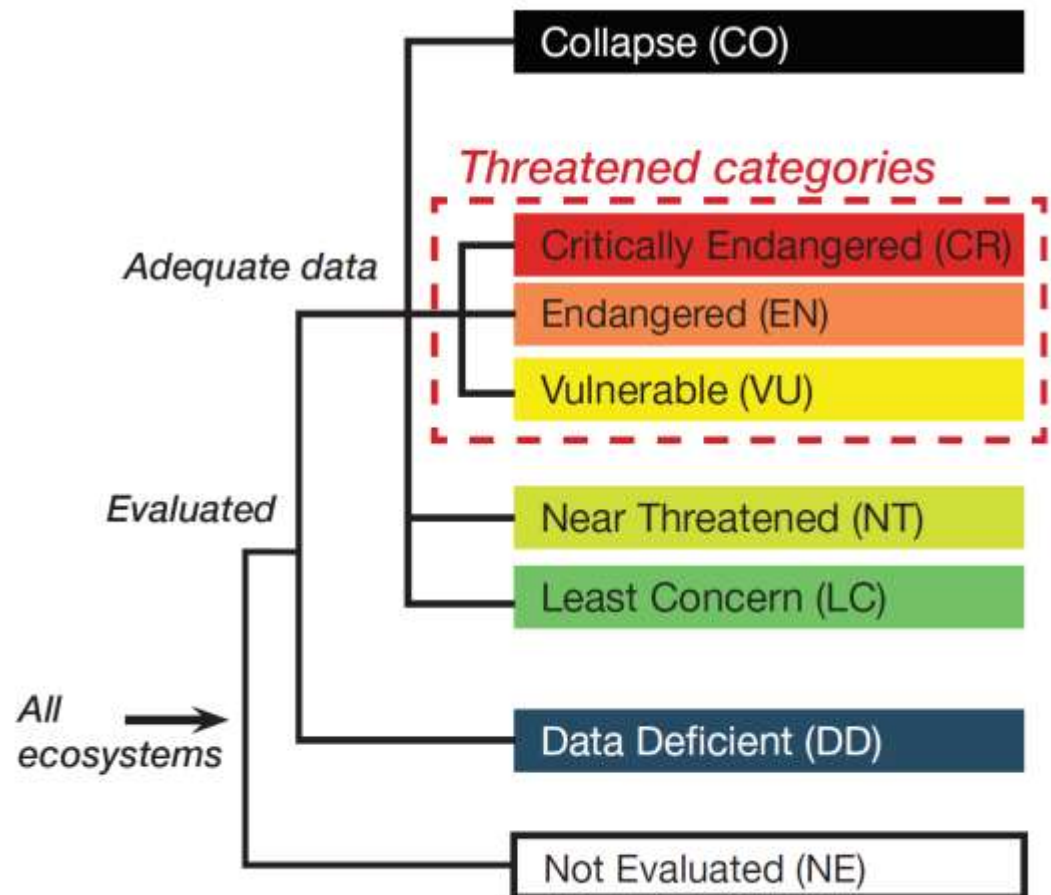
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# Ecosystem Risk Assessment- Red List of Ecosystems

- **Objectives:**
- Assess the conservation condition of ecosystems of the world: from the most threatened to those in good conservation conditions.



# Nature based Solutions

- Nature-based Solutions (NbS) are defined by IUCN as “actions to protect, sustainably manage, and restore natural or modified ecosystems, that address societal challenges effectively and adaptively, simultaneously providing human well-being and biodiversity benefits”.



# NbS - Objectives

- Develop and improve knowledge on NbS and support the integration of this knowledge in planning and decision making
- Operational framework to implement the NbS Resolution: developing the parameters/standards, the guidelines



Nature-based Solutions  
to address global societal  
challenges

Editors: E Cohen-Shacham, G Walters, C Janzen,  
S Maginnis



# Ecosystem Resilience

- **Objective:**
- To clarify the concept of resilience with respect to complex systems and demonstrate the value of tools for resilience-based natural resource stewardship, disaster risk reduction and ecosystem-based adaptation.



# Ecosystem governance

- Inclusive approach that better connects the social system with the ecological system to improve conservation of biodiversity and ecosystem health for human well-being.



## Ecosystem governance

- **Objective:**
- To foster discussion to better understand how EG can support biodiversity conservation, protection of ecosystem services, and environmental sustainability across ecosystems. Supporting the SDGs, Paris Agreement and the Aichi targets under the CBD.
- World Forum of Ecosystem Governance (2015 and 2018)

# Culture and Ecosystem Management

- **Objective:**
- To provide expert knowledge and guidance on the values of culture and cultural practices to support biodiversity conservation, cultural diversity and address the impacts of climate change in ecosystem management.



## CEM Structure- 2017-2020



### THEMATIC GROUPS

NBS

Ecosystems Resilience

Eb Adaptation & Mitigation

Eco-DDR

Restoration

Ecosystem Services

RLE

Sustainable Use of Biodiv.

Ecosystems and Invasive Spp.

Business and EM.

Biosphere Reserves

Ecosystem Governance

Cultural Practices and EM

### SPECIALIST GROUPS

Agroecosystems

Arctic

Coastal and Marine

Deep Sea- Mining

Drylands

Forest Ecosystems

Islands

Mediterranean

Mountain

Oasis/ Deserts

Peatlands

Holarctic Steppes

Urban Ecosystems

Wetlands

### TASK FORCES

Systemic Pesticides

EbA

Aquaculture

Fisheries Expert Group

Re-wilding

Synthetic Biology and  
Ecosystems

Human Health and EM

Young Professionals  
Network

## Involving Canadians

- **Examples:**
- Cultural practices and indigenous knowledge: Darwin Horning at UNBC
- Ecosystem governance case studies database: Liette Vasseur and Tomas Zuklin
- Forest Landscape Restoration: Cara Nelson
- Res List of Ecosystem in the Arctic: David Keith
- *And many more activities where members can be involved.*



**Thank you, Merci, Miigwetch**

**[aandrade@conservation.org](mailto:aandrade@conservation.org)**

**[angela.andrade@iucn.org](mailto:angela.andrade@iucn.org)**

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