

PROTECTION OF THE ARCTIC MARINE ENVIRONMENT WORKING GROUP



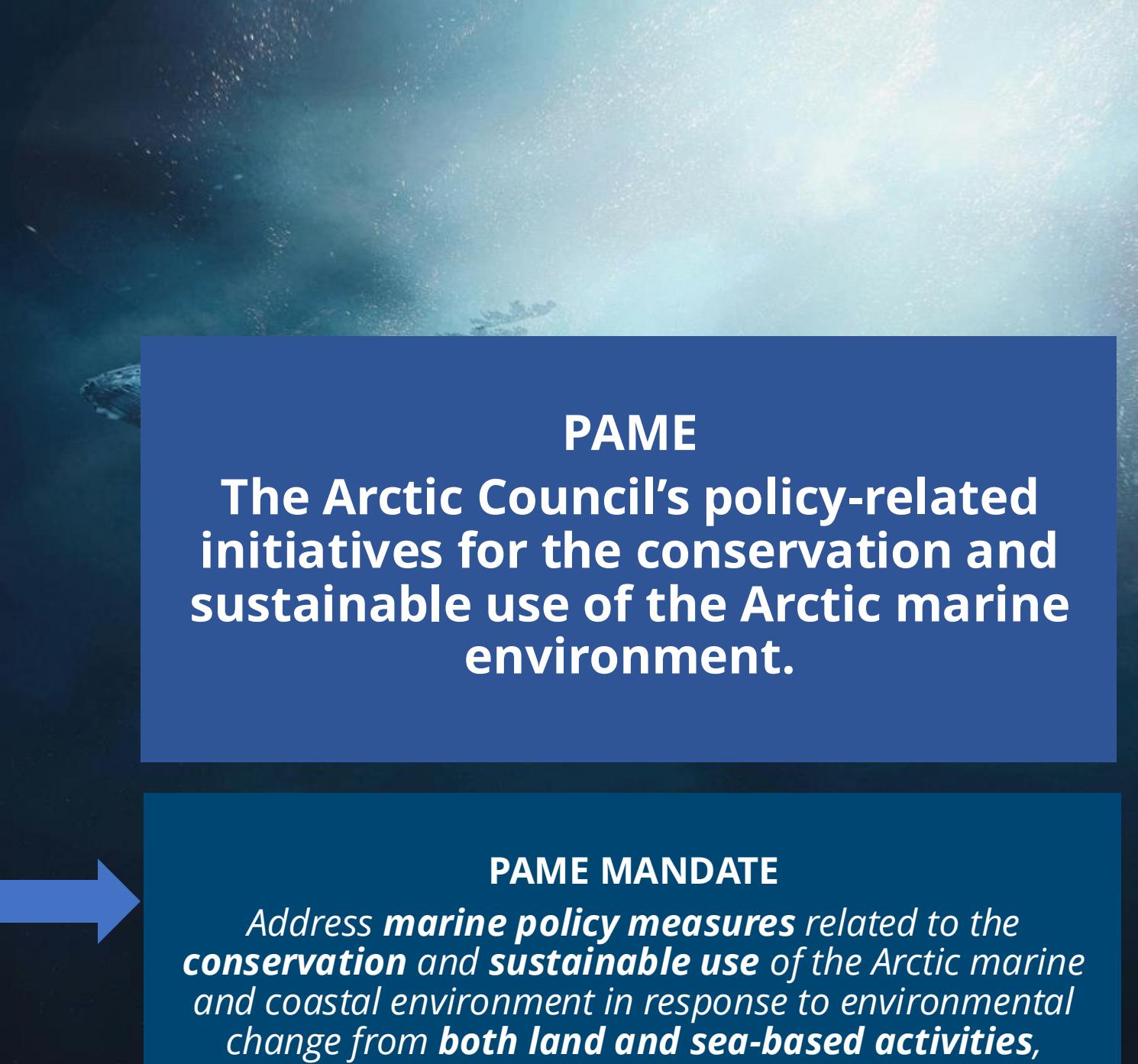
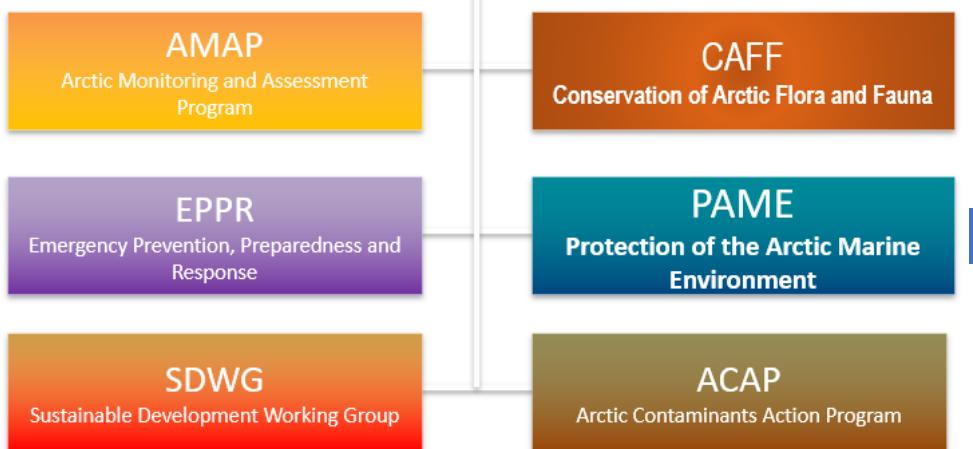
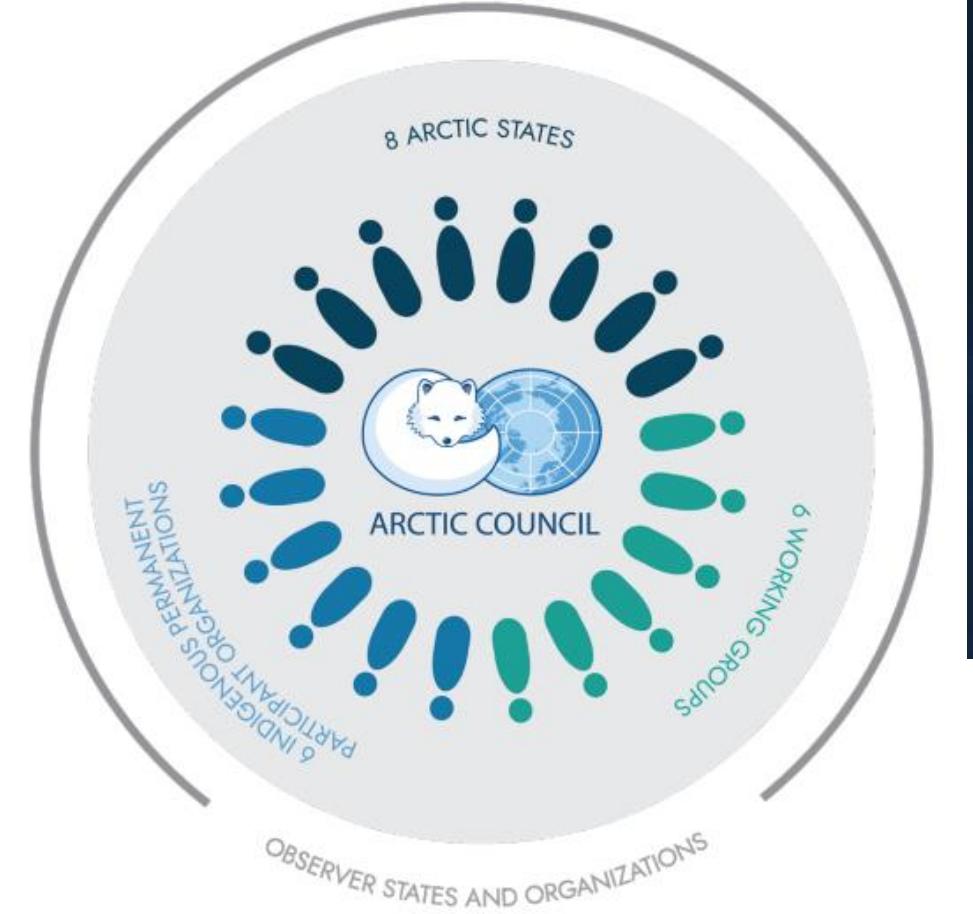
ARCTIC COUNCIL

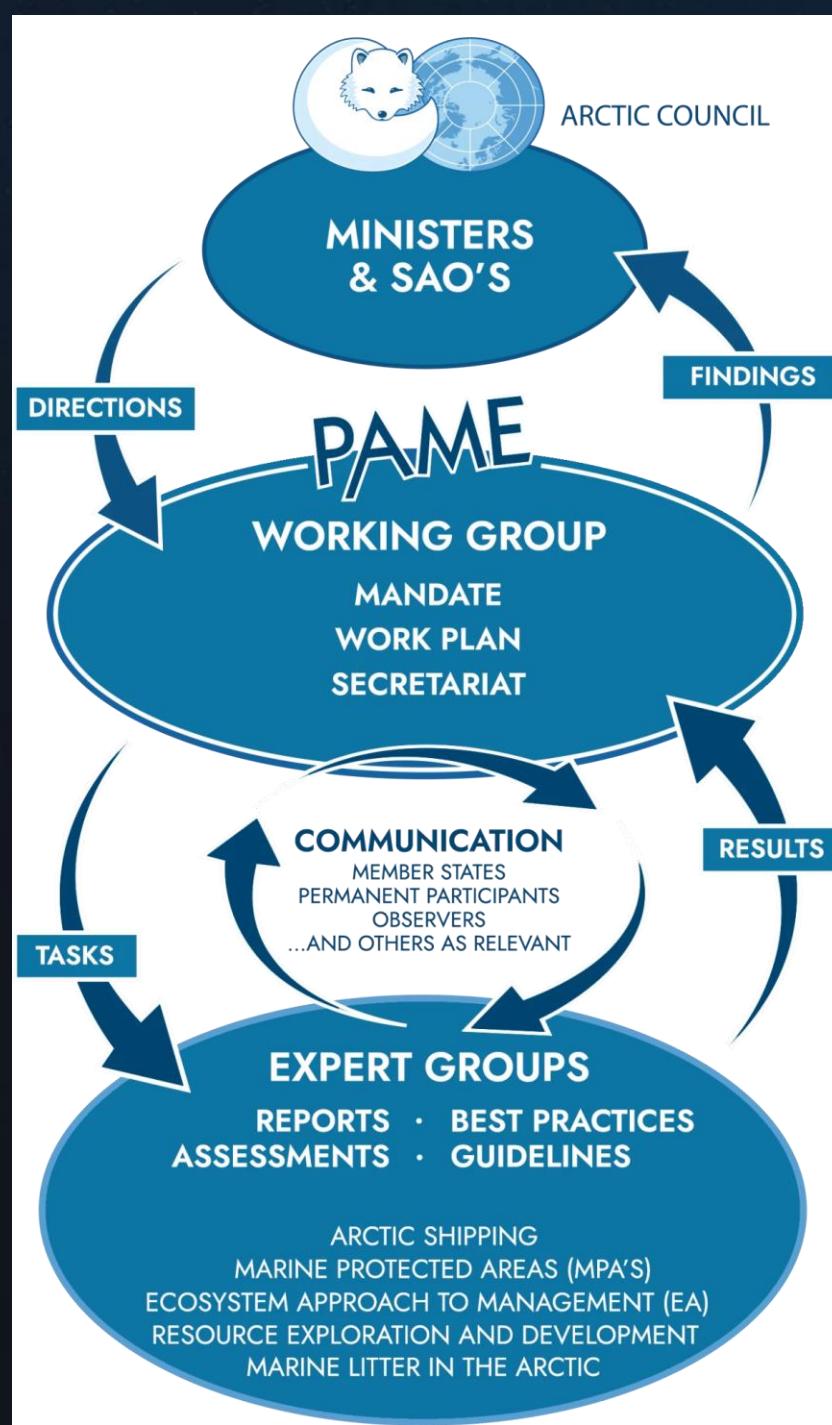
PAME

Protection of the Arctic Marine Environment



ECOSYSTEM BASED MANAGEMENT







Protection of the Arctic Marine Environment



The role of the Ecosystem Approach - expert group is to consider the scientific and technical aspects related to the implementation of Ecosystem Based Management of the Arctic Large Marine Ecosystems.





The join expert group

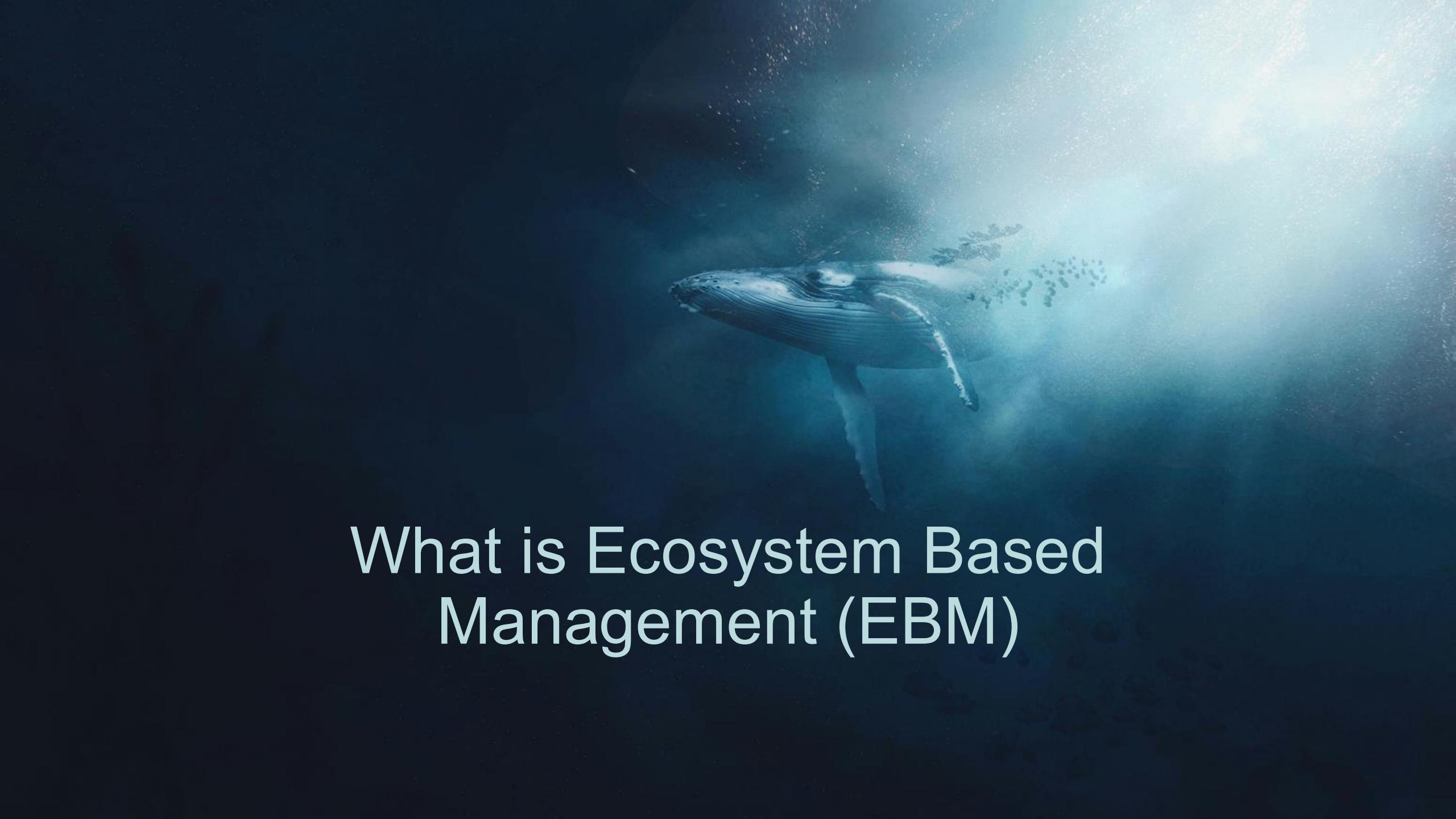
Ecosystem Approach to Management



Co-lead by Dr's. Cathy Coon (NOAA) and Lis L. Jørgensen (IMR)





A large humpback whale is swimming in the ocean, its body partially submerged. Sunlight filters down from the surface, creating a bright, glowing effect around the whale and illuminating some marine life and debris in the water. The background is a deep blue.

What is Ecosystem Based Management (EBM)

The goal



The goal



Achieving sustainable use of ecosystem goods and services and maintenance of ecosystem integrity.

The governance responsibility



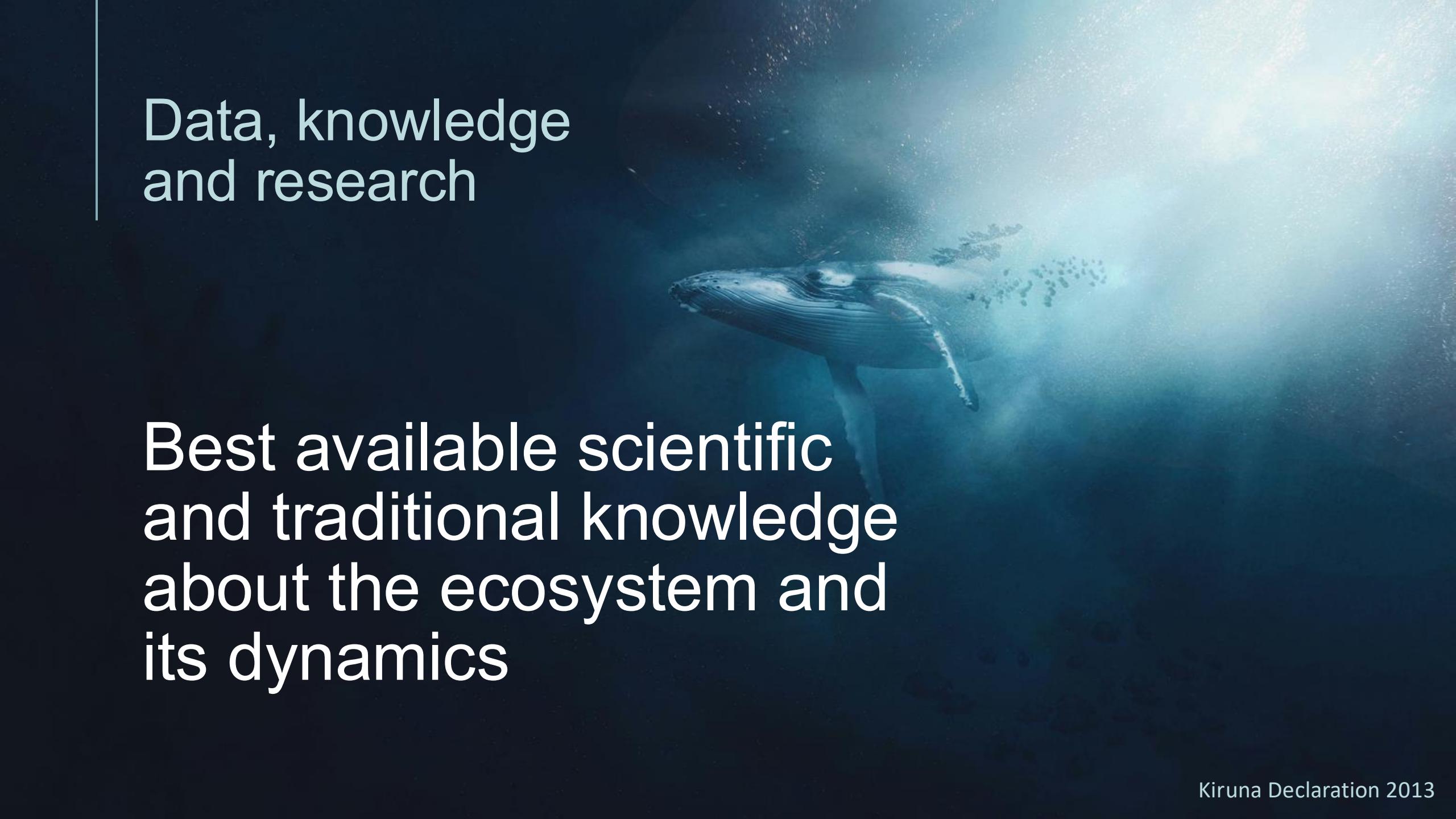
A large humpback whale is swimming in the ocean, its body partially submerged. Sunlight filters down from the surface in bright rays, creating a glowing effect around the whale and illuminating the water. The whale's skin is textured with white spots and marks. The background is a deep blue.

The governance
responsibility

A comprehensive,
integrated management
of human activities

Data, knowledge and research



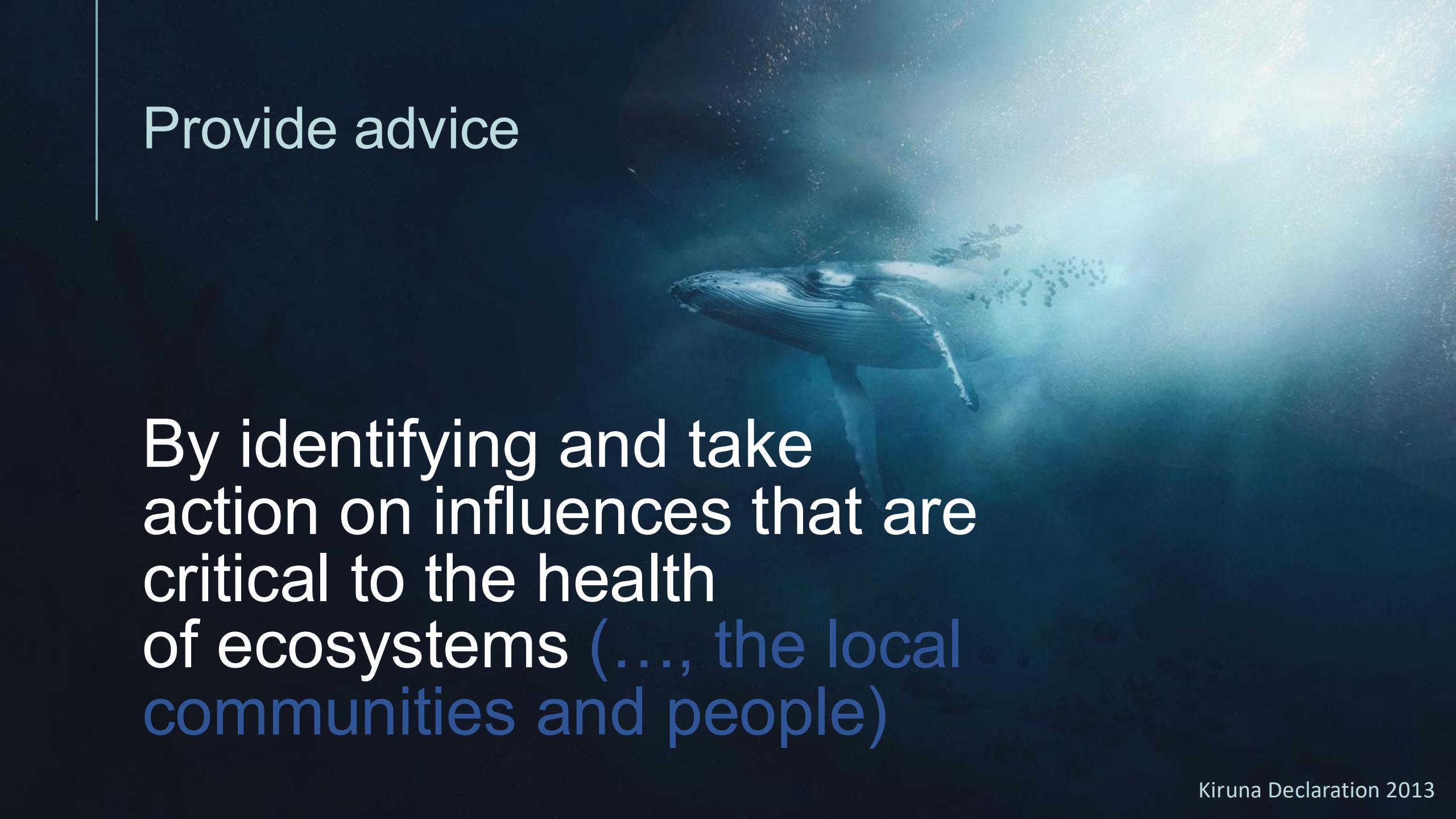
A large whale, likely a humpback, is swimming in a deep blue ocean. Sunlight filters down from the surface, creating bright highlights on the whale's skin and illuminating a school of small fish swimming near its side. The whale's patterned skin is clearly visible. The background is a deep, dark blue.

Data, knowledge
and research

Best available scientific
and traditional knowledge
about the ecosystem and
its dynamics

Provide advice



A large humpback whale is swimming in a deep blue ocean. Sunlight filters down from the surface in bright rays, illuminating the whale's skin and the surrounding water. The whale's body is dark, with lighter patches and white spots on its fins and tail. It is moving towards the left of the frame.

Provide advice

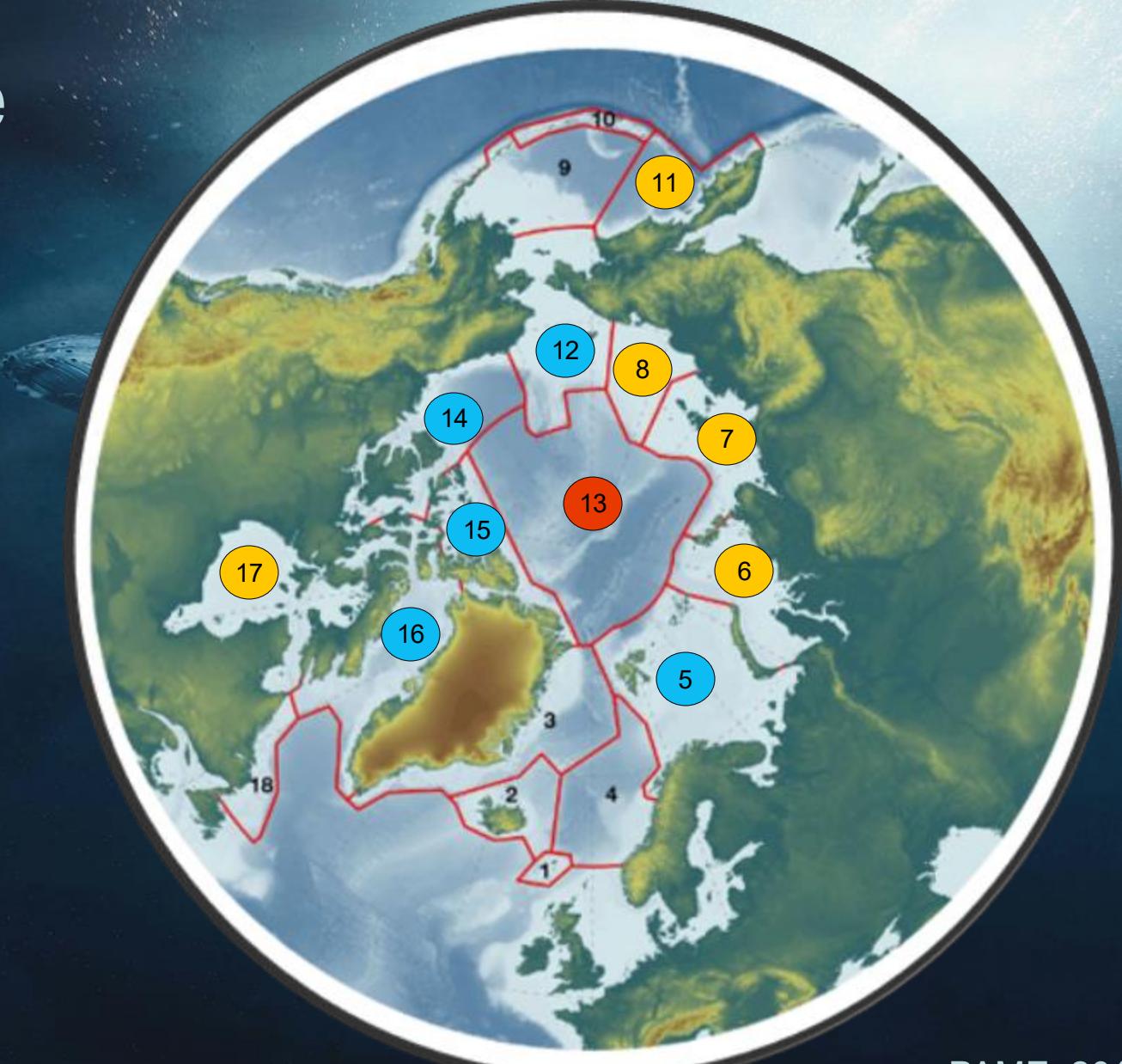
By identifying and take action on influences that are critical to the health of ecosystems (..., the local communities and people)

The 18 Large Marine Ecosystems (LMEs) of the Arctic

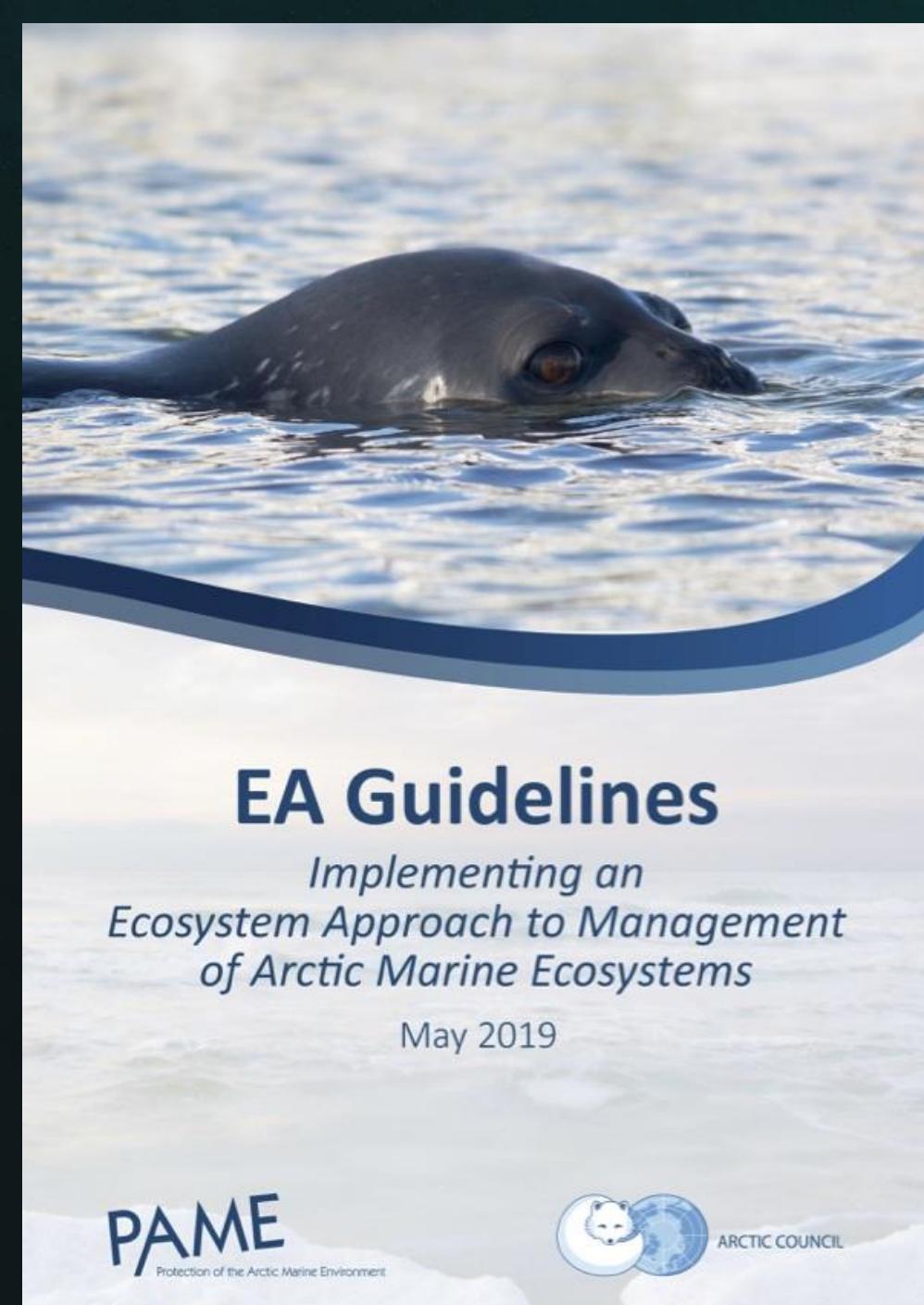
National ecosystems

Bilateral ecosystems

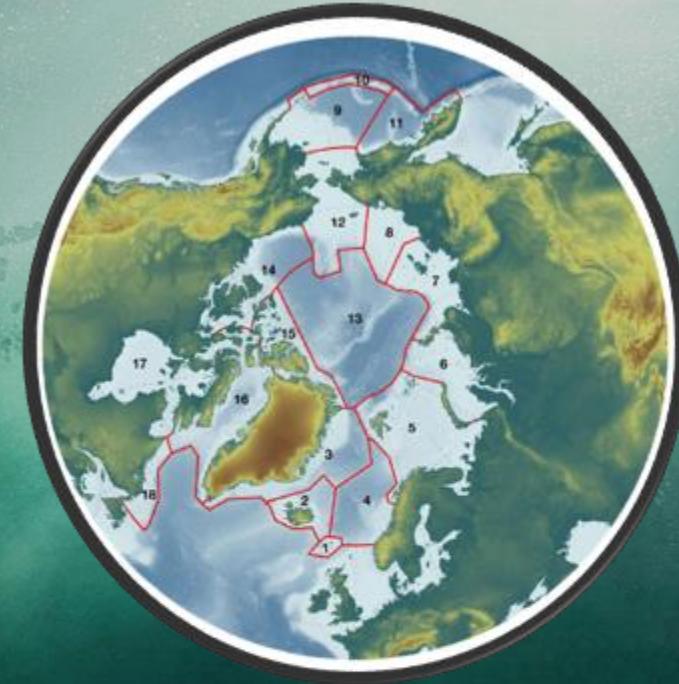
Multinational ecosystems with High Seas



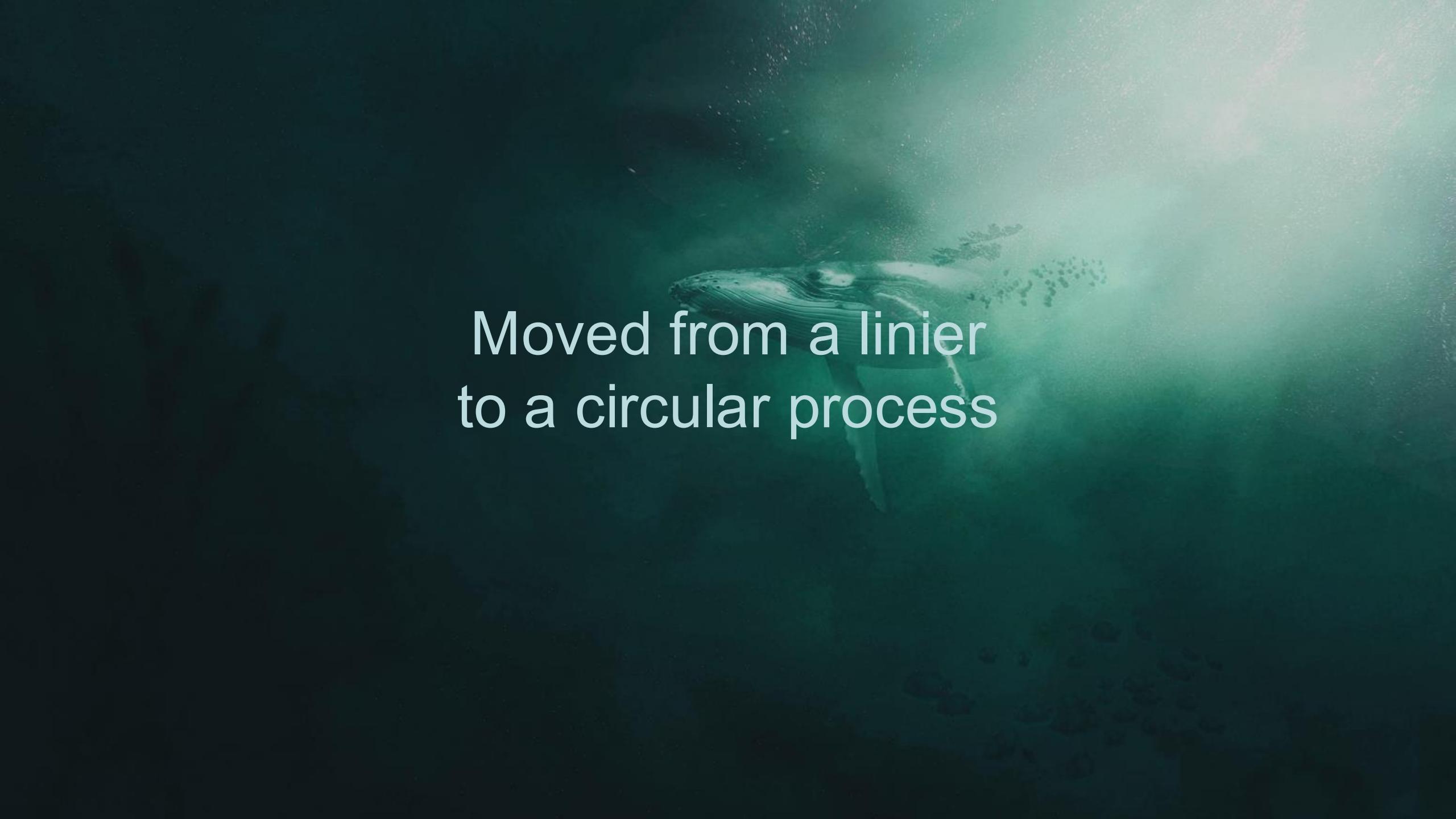




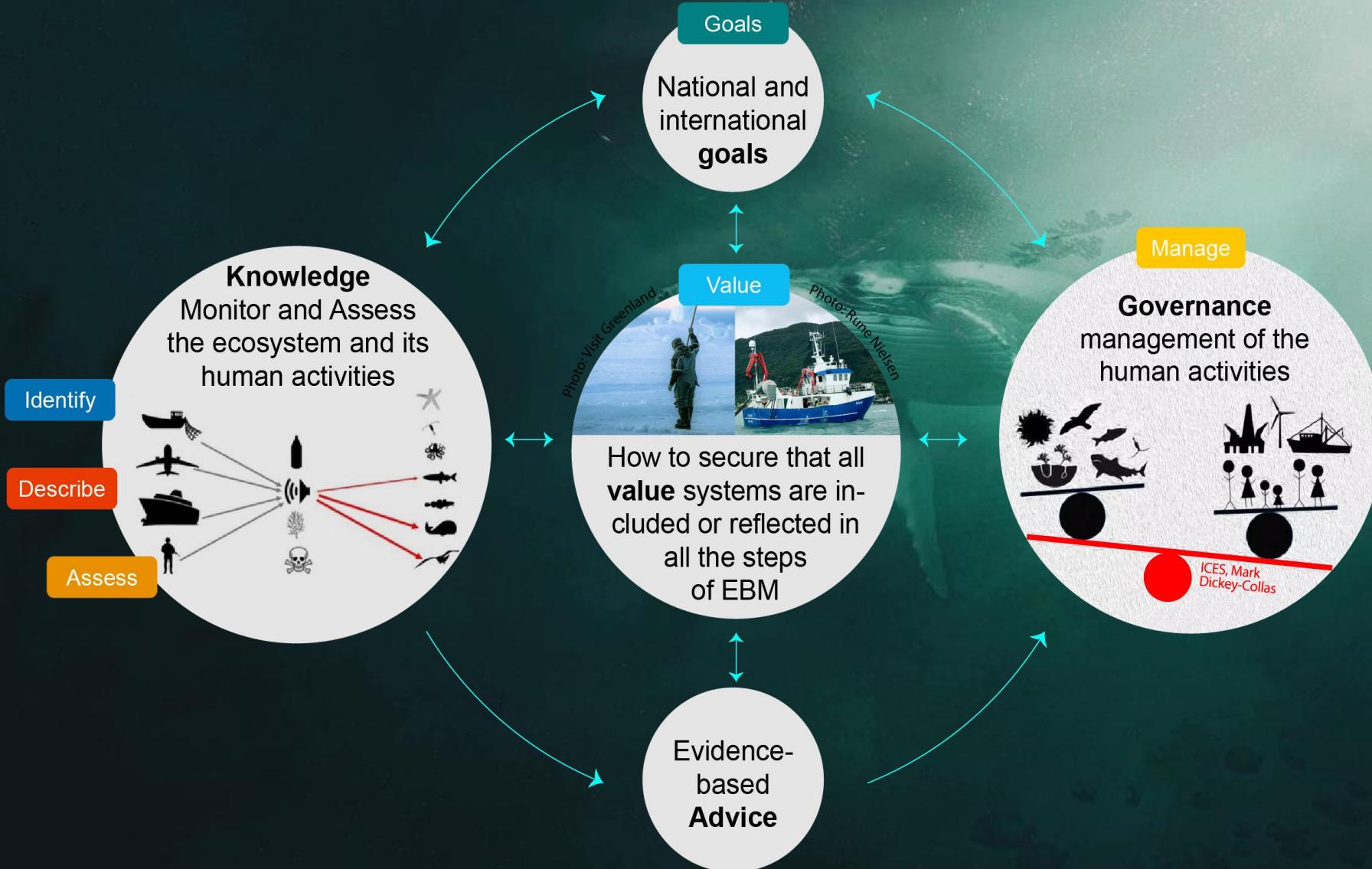
1. **Identify** the geographic extent of the ecosystem.
2. **Describe** the biological and physical components and processes of the ecosystem including humans.
3. Set ecological **objectives** that define sustainability of the ecosystem.
4. **Assess** the current state of the ecosystem (Integrated Ecosystem Assessment).
5. **Value** the cultural, social and economic goods produced by the ecosystem (*work in progress*).
6. **Manage** human activities to sustain the ecosystem.





A large whale is swimming in a dark, greenish-blue ocean. It is moving from the left side of the frame towards the right. A trail of bubbles is visible behind it, extending towards the right. The whale's skin is textured and dark, with some lighter patches. The background is a deep, dark green, suggesting a deep ocean environment.

Moved from a linear
to a circular process



7TH EA WORKSHOP: ARCTIC PEOPLES VALUES AND VALUATION

21-23 OCTOBER 2025
TROMSØ, NORWAY

A workshop to discuss
valuation methods
and governance
mechanisms when
involving the diversity
of people's **values**
for the **Arctic Large
Marine Ecosystems**.



ARCTIC COUNCIL

OUTLINE:

DAY 1 DAY 2 DAY 3

Identify and understand diverse set of **values** held for the **Arctic Large Marine Ecosystems**

Identify and understand the diversity of **valuation-methods** held for the **Large Marine Ecosystems**

Explore ways to incorporate diverse systems of values and valuation into **EBM** for the **Large Marine Ecosystems**



WORKSHOP
WEBSITE

Organized by the joint
EA Expert Group on
Ecosystem Approach to
Management:

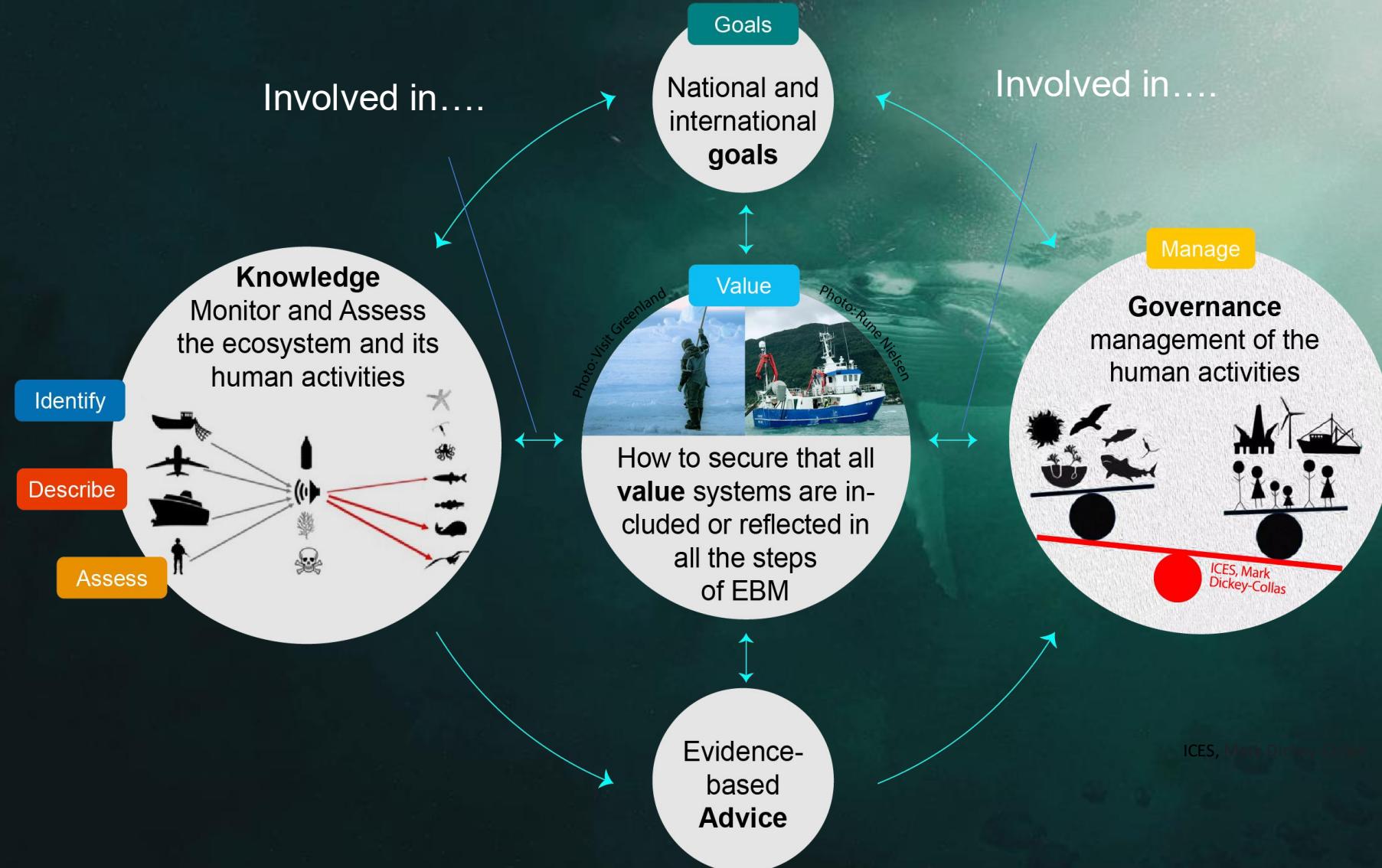
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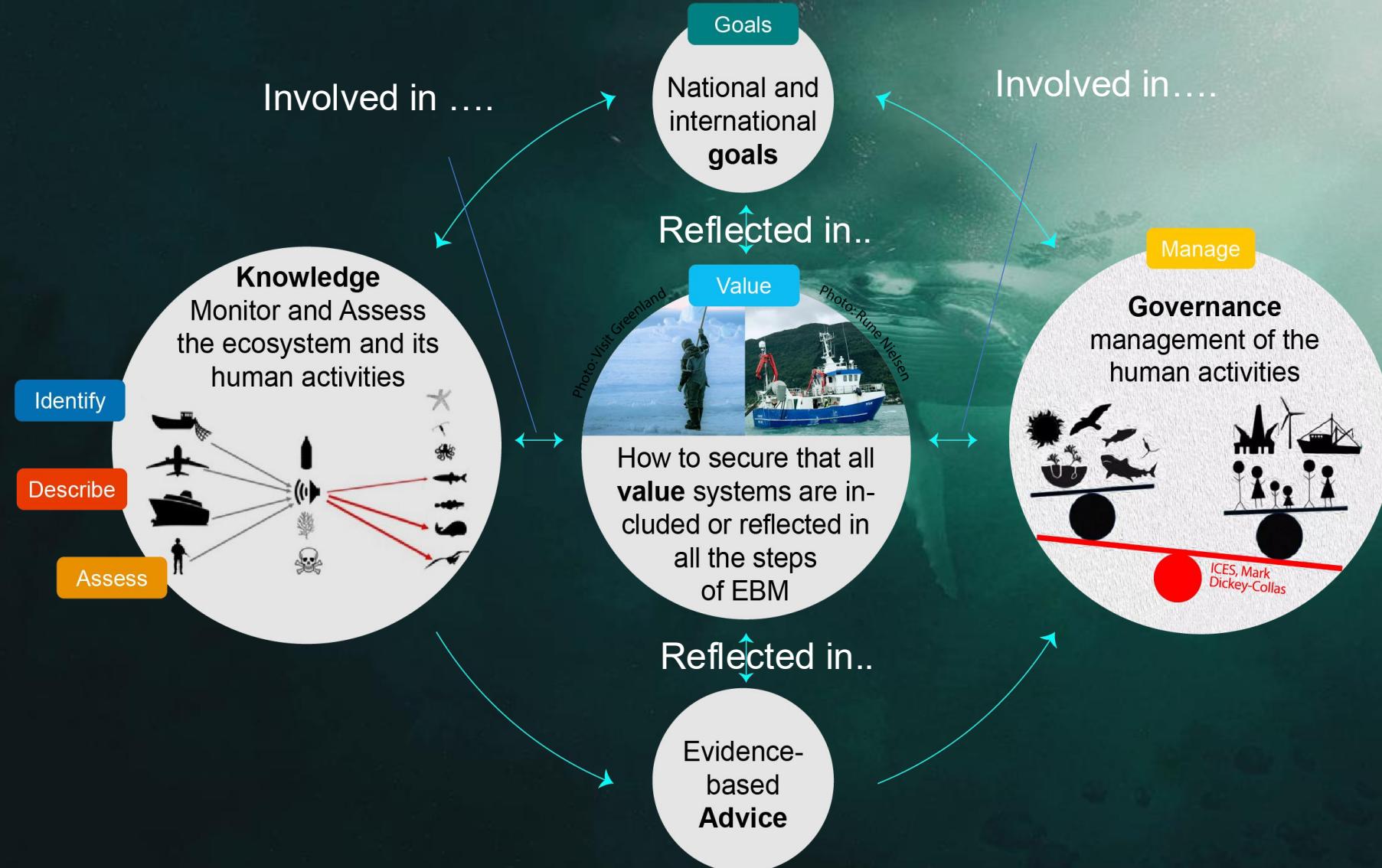
CAFF
Conservation of Arctic Flora and Fauna

AMAP
Arctic Monitoring and Assessment Programmes

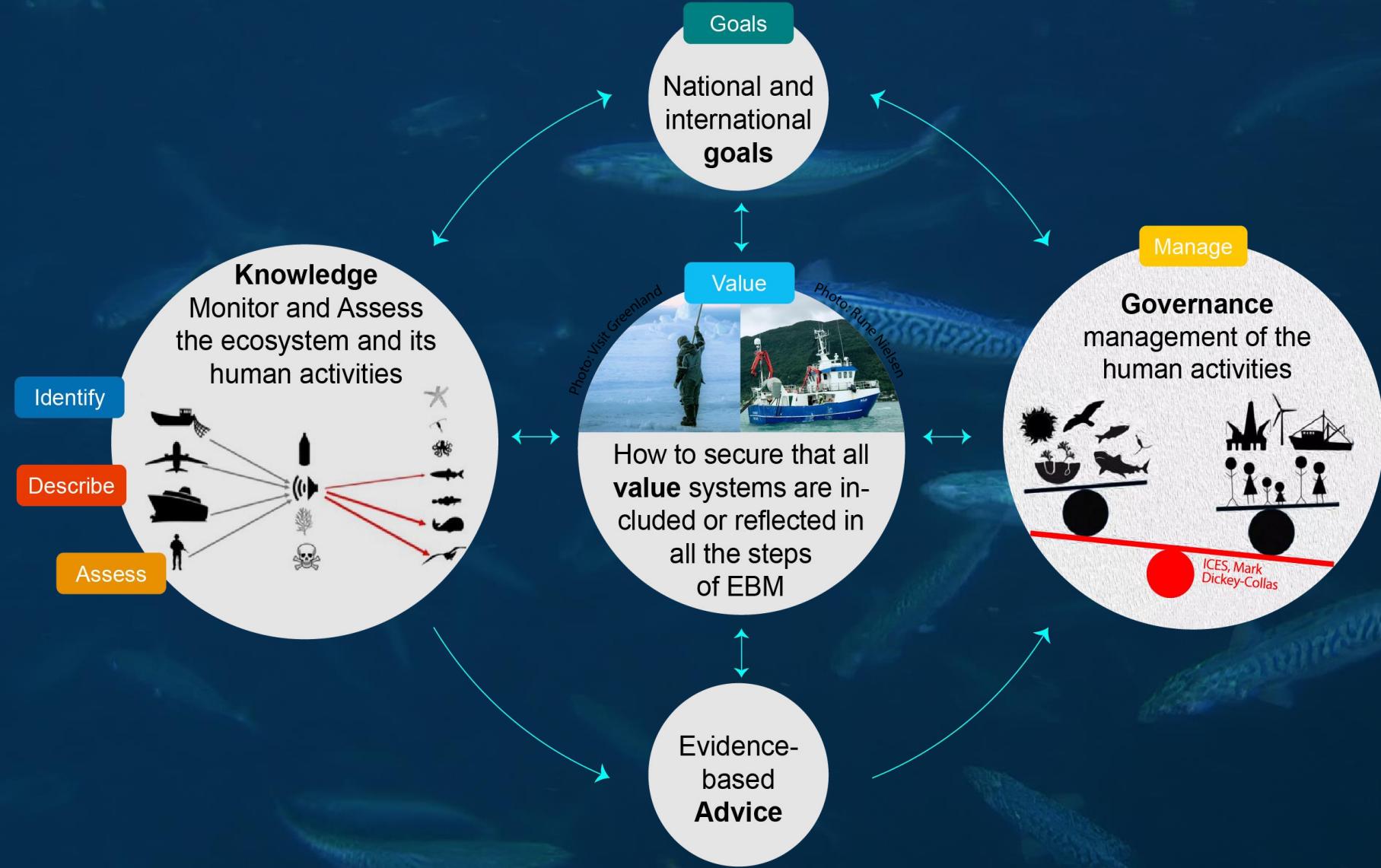

Sustainable
Development
Working
Group

Sponsored by the **Nordic Council**
of Ministers Fishery Cooperation AG-Fisk



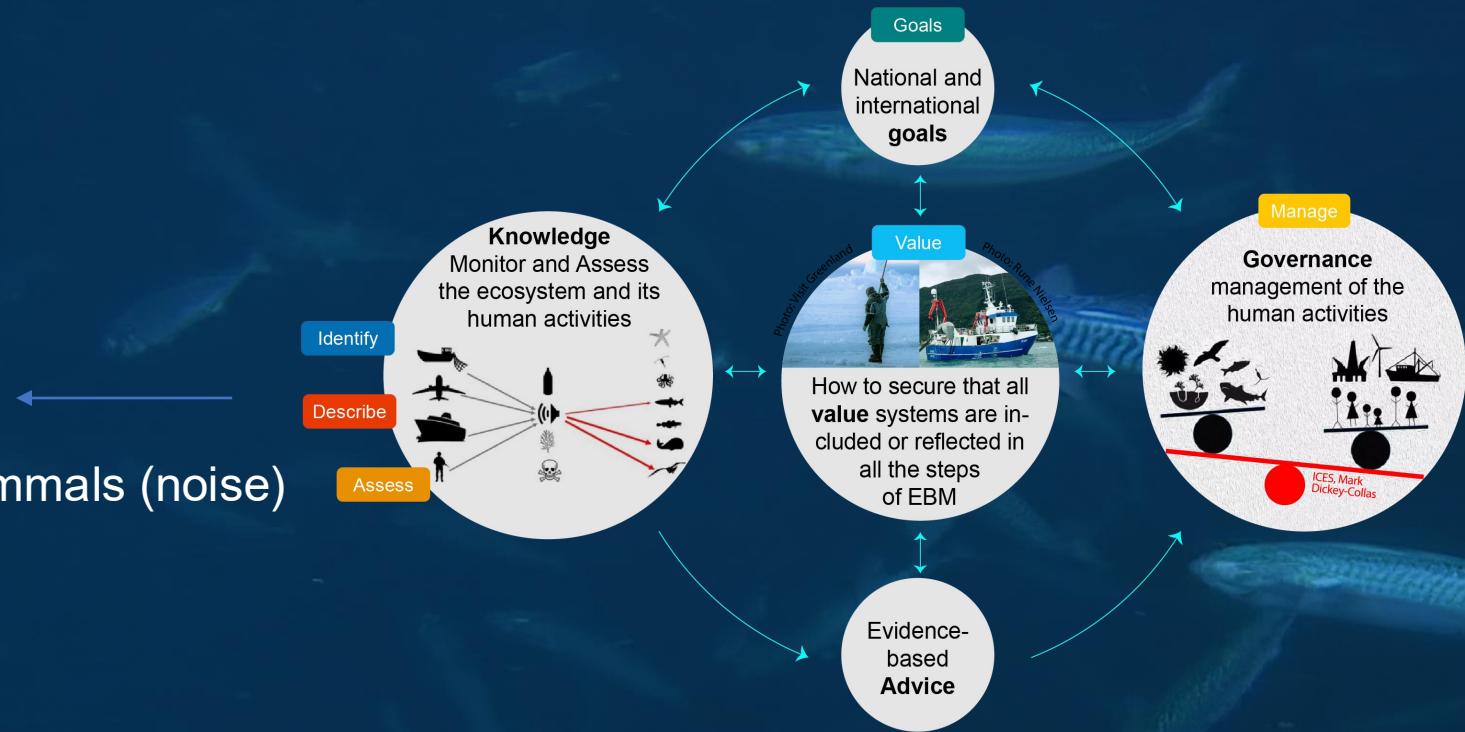
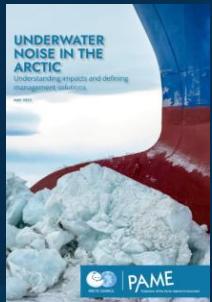


WGICA in EBM



WGICA IEA

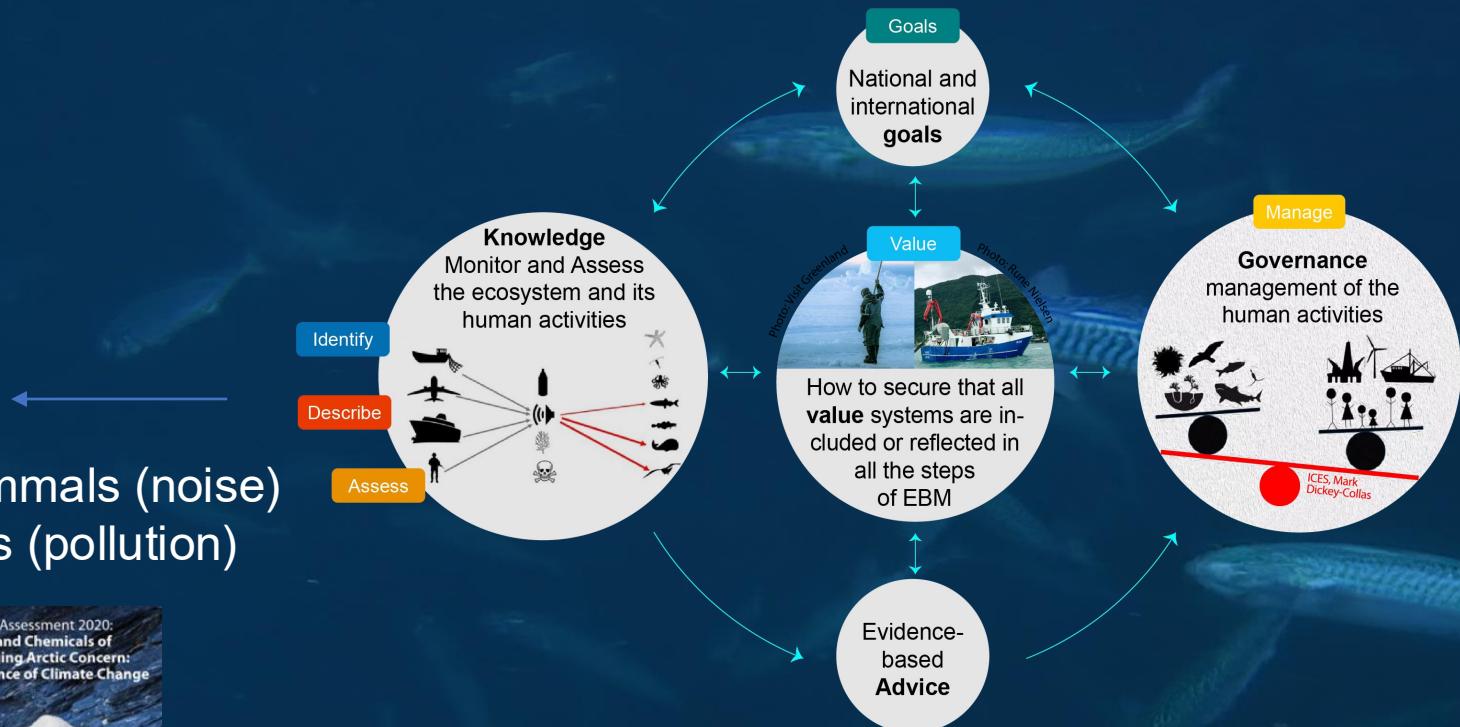
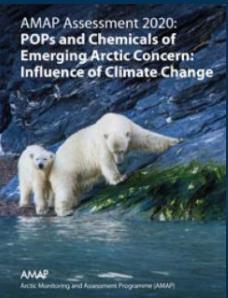
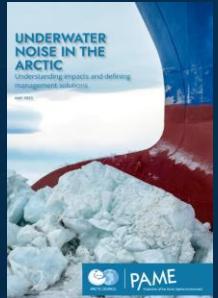
- Sea-mammals (noise)



WGICA in EBM

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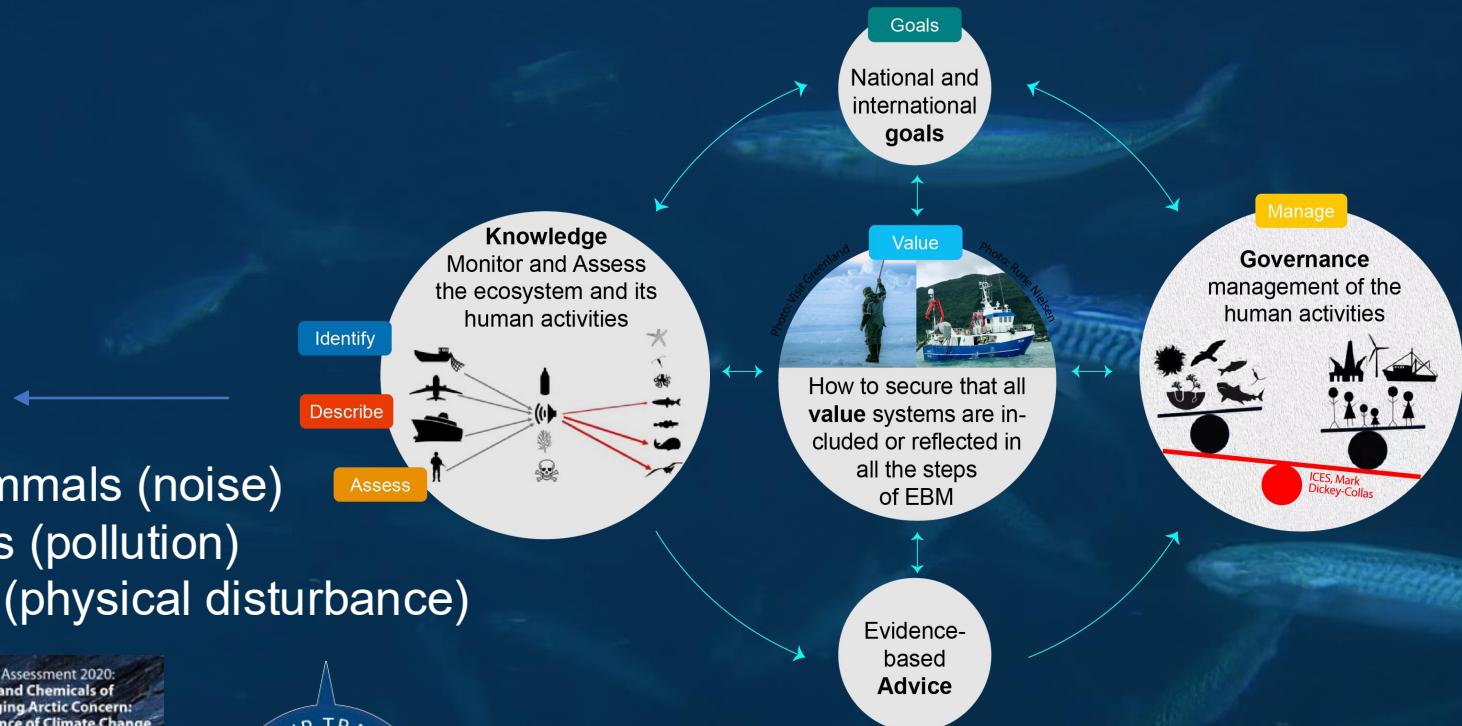
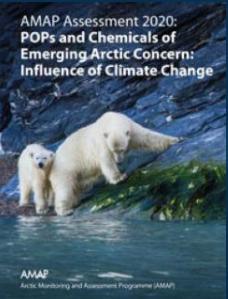
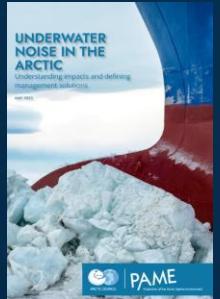
- Sea-mammals (noise)
- Sea birds (pollution)



WGICA in EBM

WGICA IEA

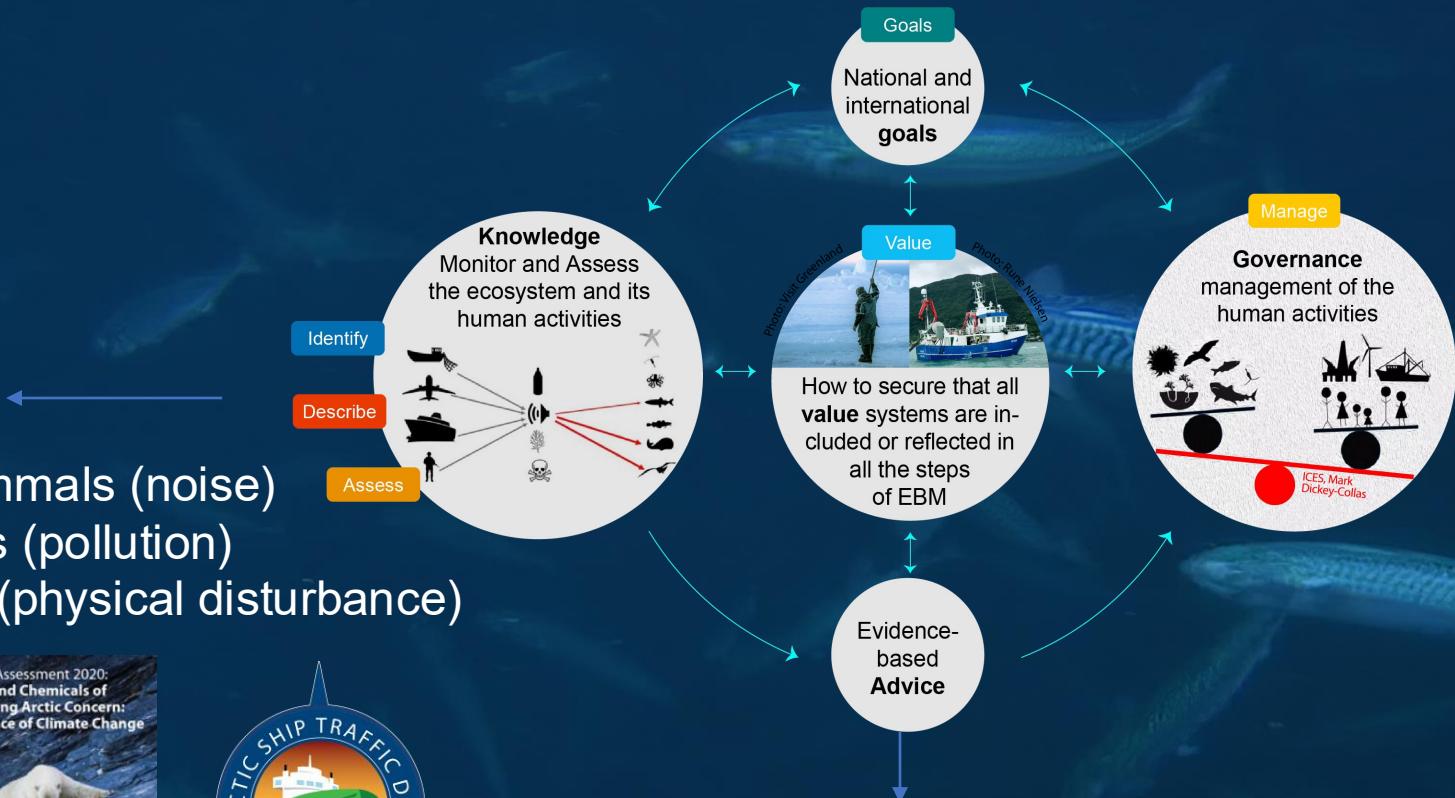
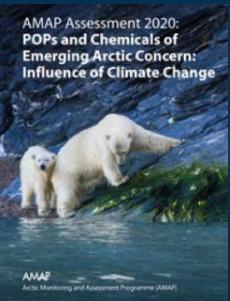
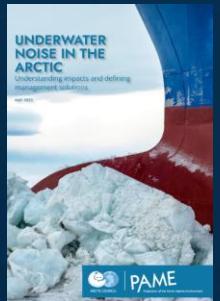
- Sea-mammals (noise)
- Sea birds (pollution)
- Benthos (physical disturbance)



WGICA in EBM

WGICA IEA

- Sea-mammals (noise)
- Sea birds (pollution)
- Benthos (physical disturbance)

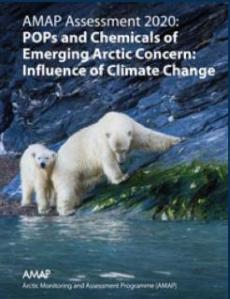
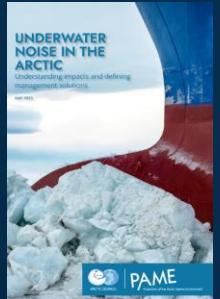


Ecosystem Overview

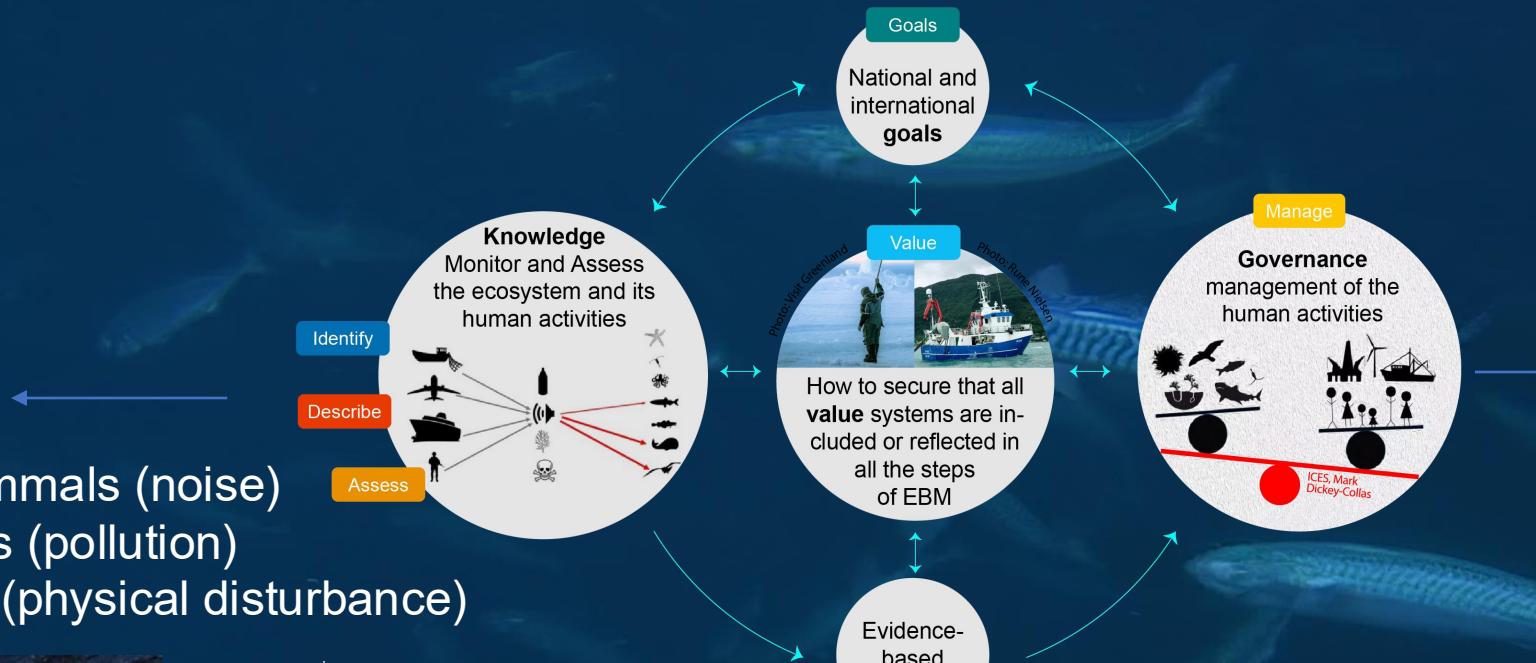
WGICA in EBM

WGICA IEA

- Sea-mammals (noise)
- Sea birds (pollution)
- Benthos (physical disturbance)



MPAs Temporal and spatial restrictions in ship traffic

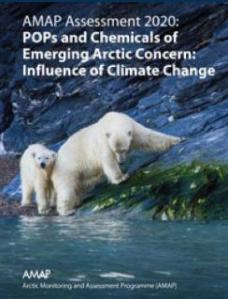
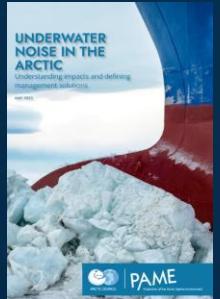


CAOFA
OSPAR
Arctic Council wgs
NGOs (WWF)
....

WGICA in EBM

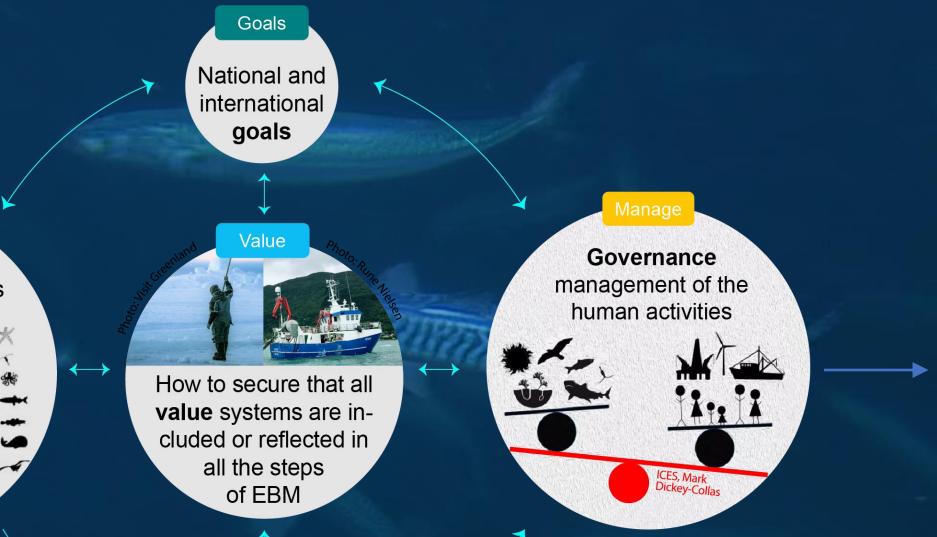
WGICA IEA

- Sea-mammals (noise)
- Sea birds (pollution)
- Benthos (physical disturbance)



ToRs 2026-2028
Fish and fishery
Vulnerable habitats
Pollution

MPAs Temporal and spatial restrictions in ship traffic



CAOFA
OSPAR
Arctic Council wgs
NGOs (WWF)
....

ICES, Mark Dickey-Collas

Ecosystem Overview

