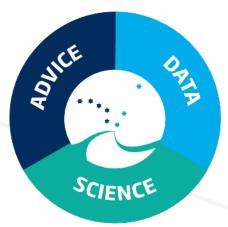


What is ICES? International Council for the Exploration of the Sea



- An Intergovernmental Marine Science Organisation
- A science network
- A knowledge provider to policy formers & decision makers
- A world leading marine data centre



Strategic partners











A science network



A global scientific community

- 4000 scientists
- from nearly 60 countries
- 1500 active experts annually
- in over 160 working groups & workshops





Diverse science across



Dynamics of Ecosystems



Impacts on Ecosystems



Climate Change



Resource management



Observation and Monitoring



Human Dimension



Integrated Assessments





ICES experienced knowledge broker between science & policy or management



Environmental legislation

Management targets

Monitoring methods

Fishing and fish



Impacts of humans

Trade-off analysis

Environmental change

Conservation policy

Ecosystem based management – key words



management of human activities sustainable use

regional

trade-offs

optimize benefits among diverse societal goals

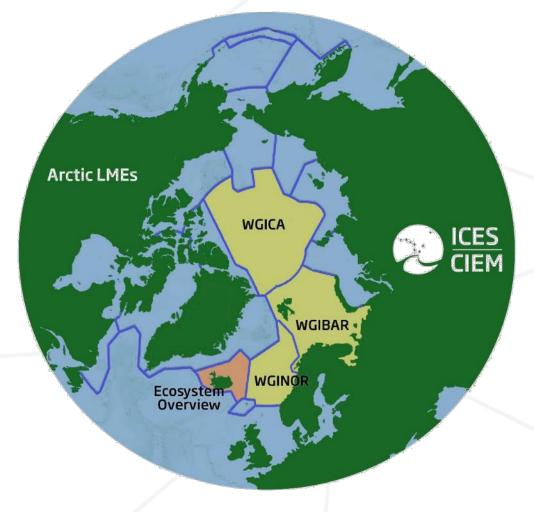
achievement of good environmental status

consideration of collective pressures

stewardship for future generations

ICES and Arctic EBM





Activities

Fisheries advice (including Greenland)

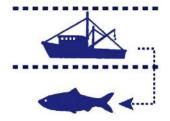
Vulnerable marine areas

Invasive species

Human Dimension

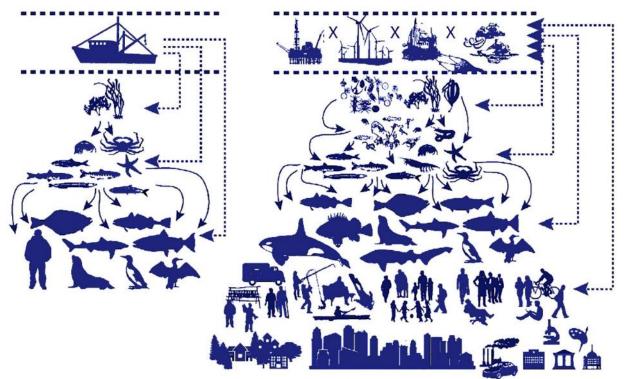
Shifting arena for ICES advice & science **EBFM EBM**

single pressure, single subject, direct goods



single pressure, multiple subjects, direct goods



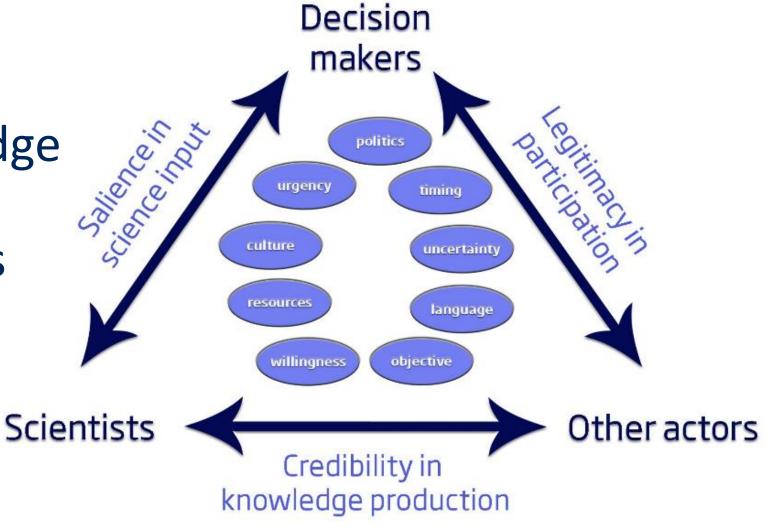


Ecosystem overviews opportunities

direct interactions

direct + indirect interactions

Study the knowledge & management system as much as the ecosystem



Röckmann et al 2015

Engaging as a researcher in EBM



- It will take much longer than expected, always frustrating, may not succeed resulting in great pain.
- The dialogue/discourse will challenge our academic training; and we must learn how to work deliberately with what we perceive as imperfection.
- Establish equitable partnerships; listening to others underpins our capacity to connect, build trust, adapt and evolve.
- The drive for simple communication may result in misleading answers but as everyone is always busy, you need to reduce the workload on partners.







