

Societal relevance of ecosystem based management for fisheries policies



Jörn Schmidt



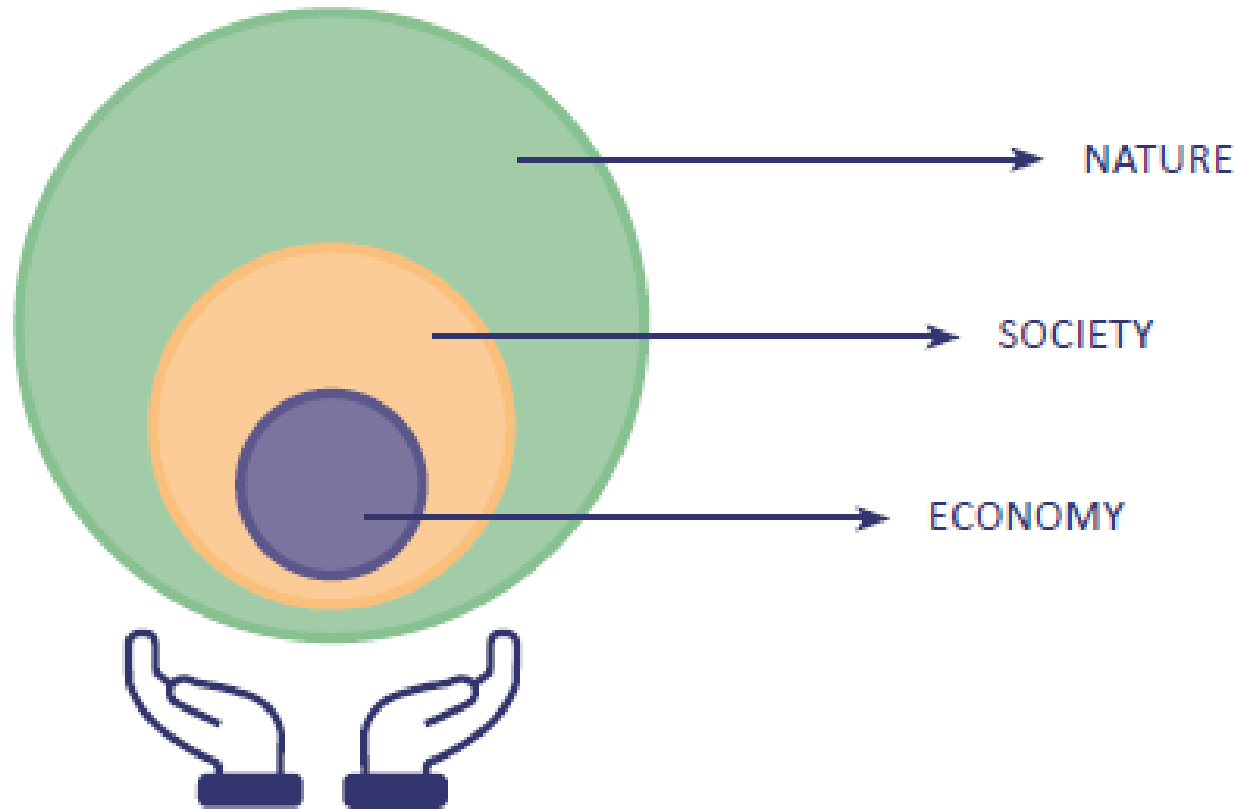
Key phrases describing Ecosystem Based Management



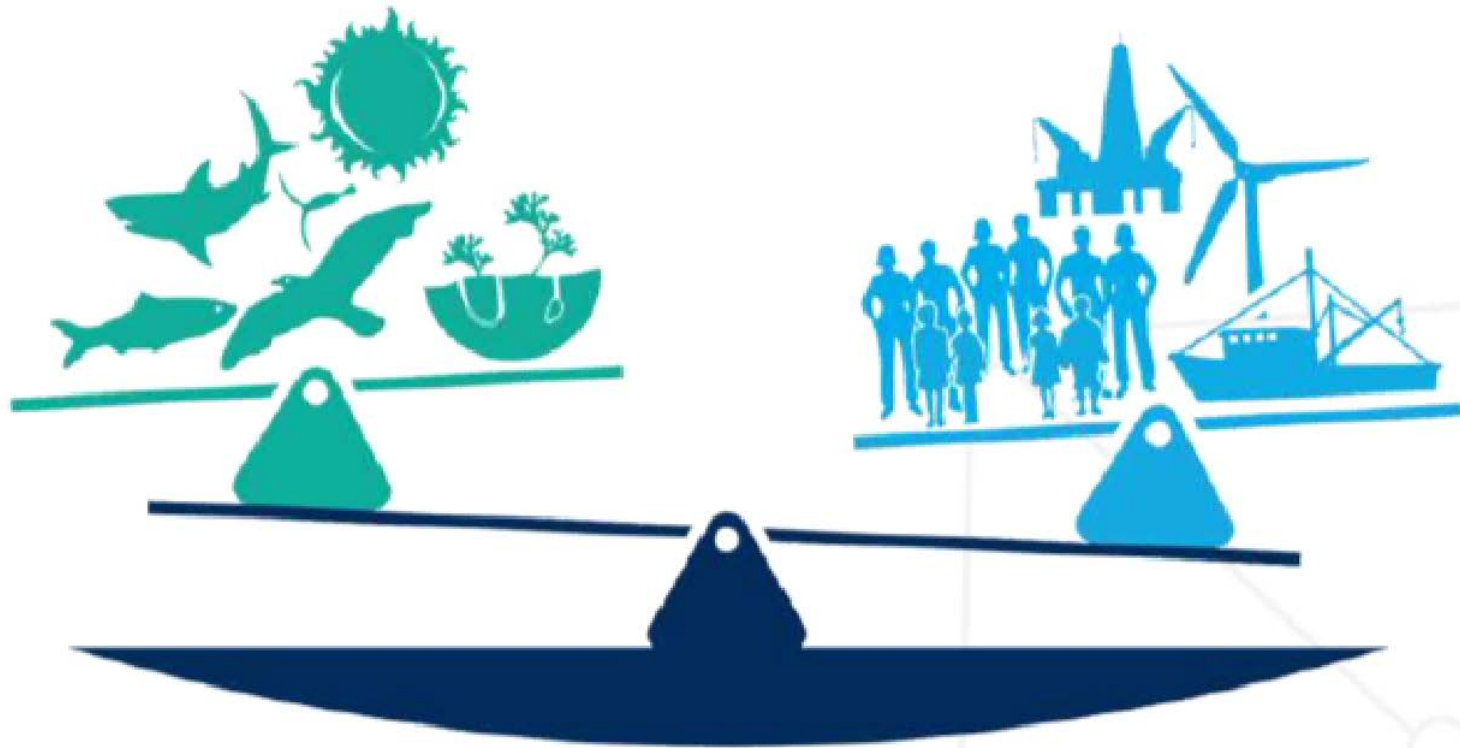
- Management of human activities
- Consideration of collective pressures
- Achievement of good environmental status
- Optimization of benefits among diverse societal goals
- Sustainable use
- Regionalization
- Trade-offs
- Stewardship for future generations

The three „pillars“ of sustainability

(Daly 1996, Griggs et al. 2013)

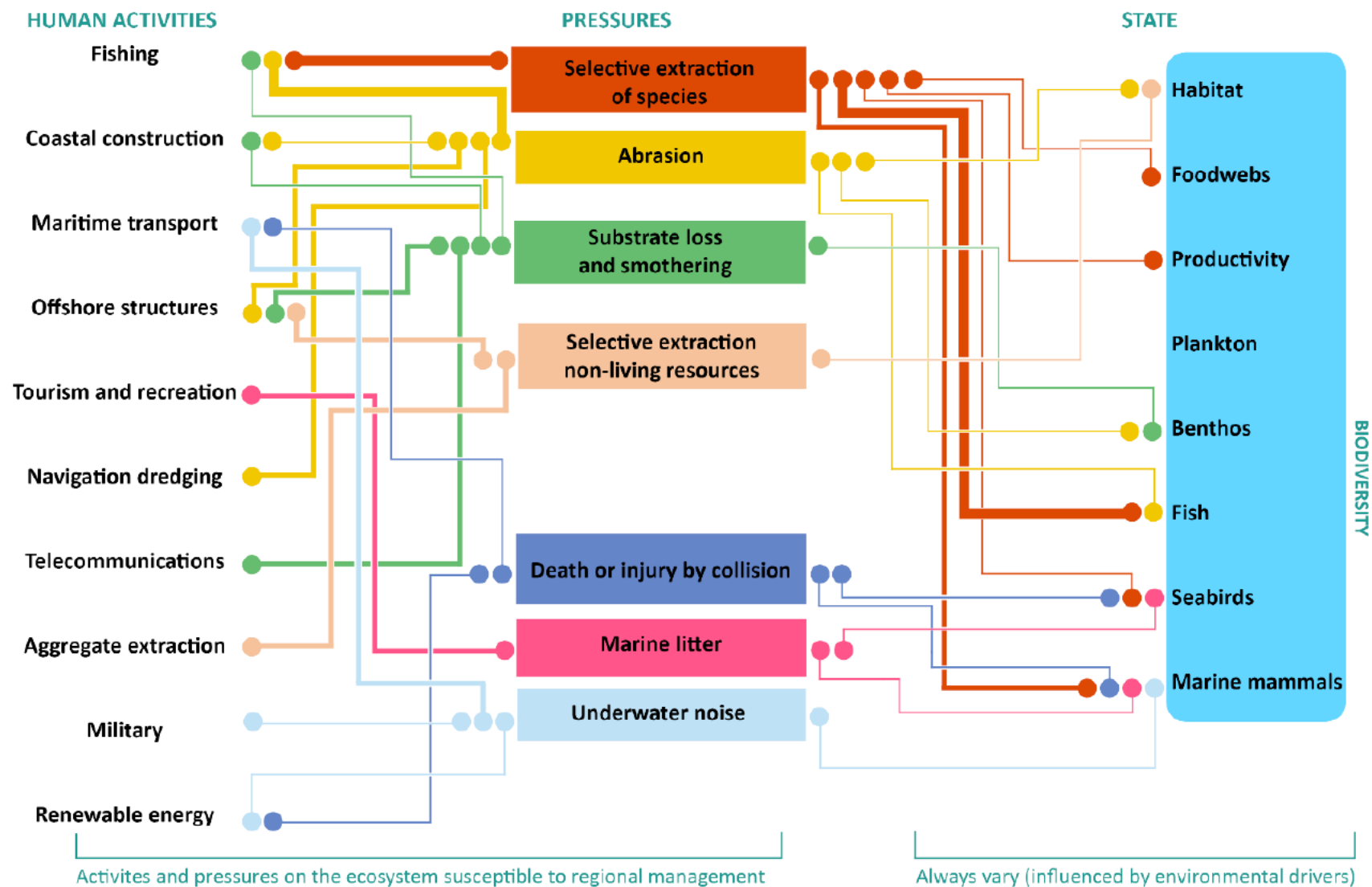


Ecosystem based approach to management



Balancing human activities & environmental stewardship in a multiple use context

Smith et al 2017

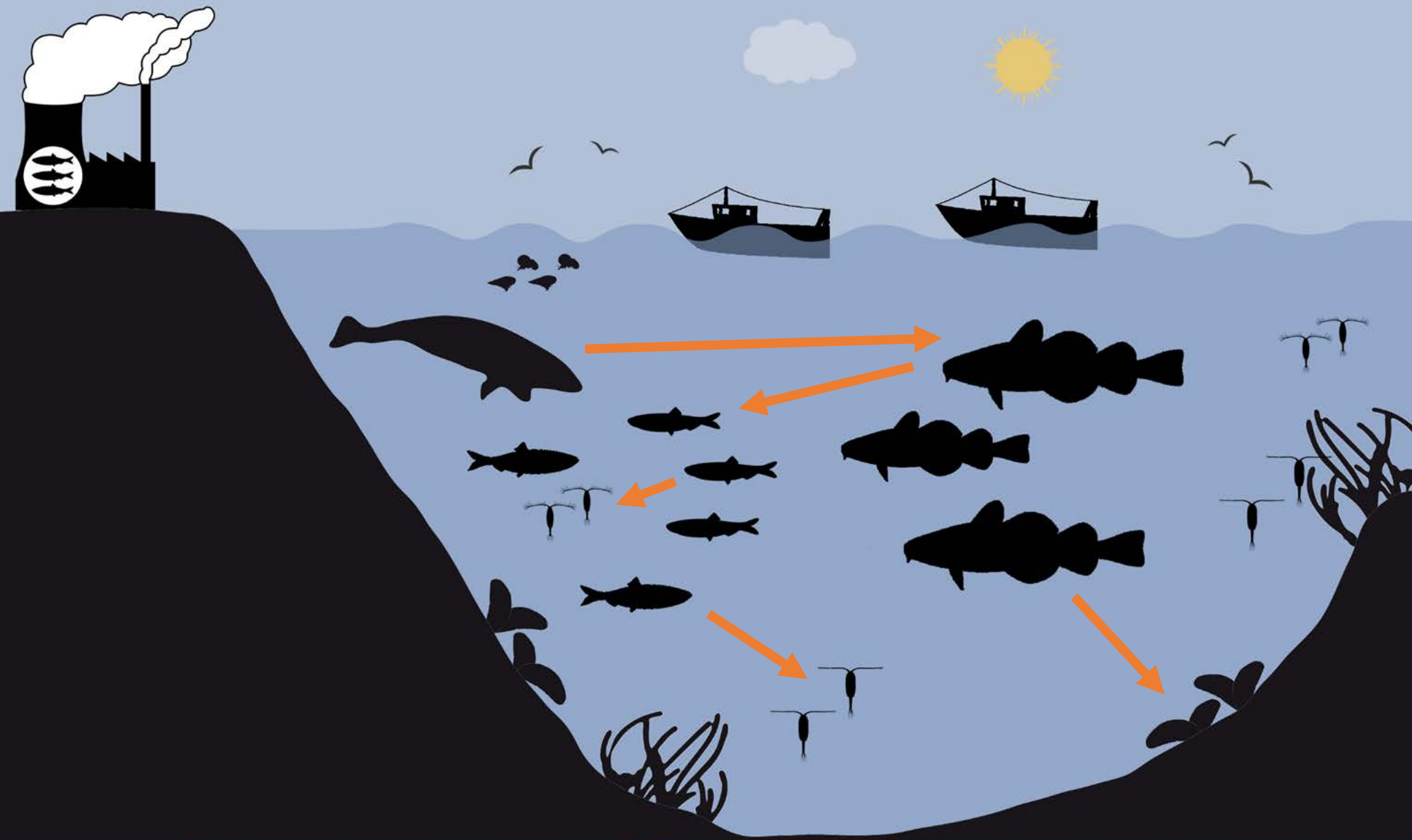


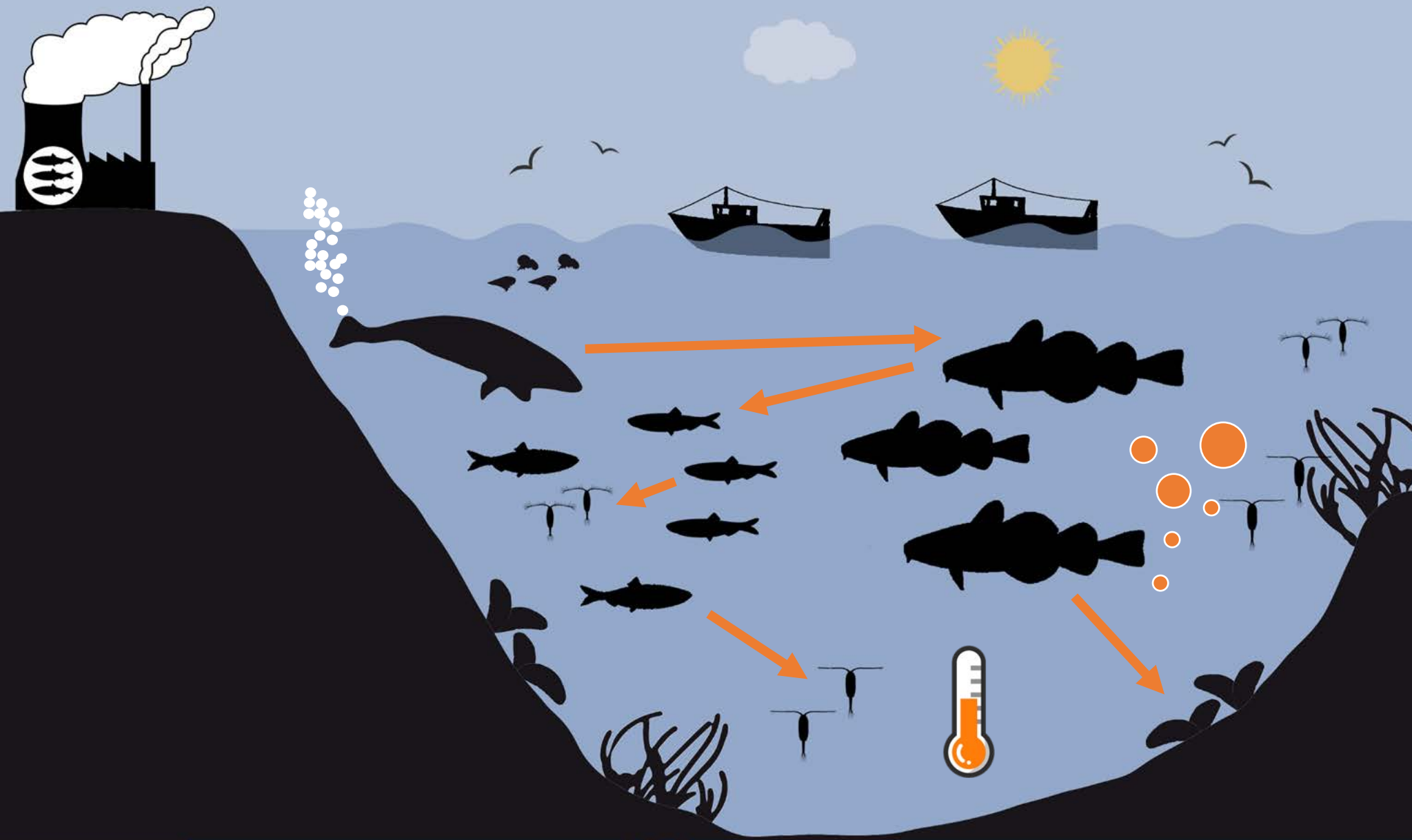
Links between the elements

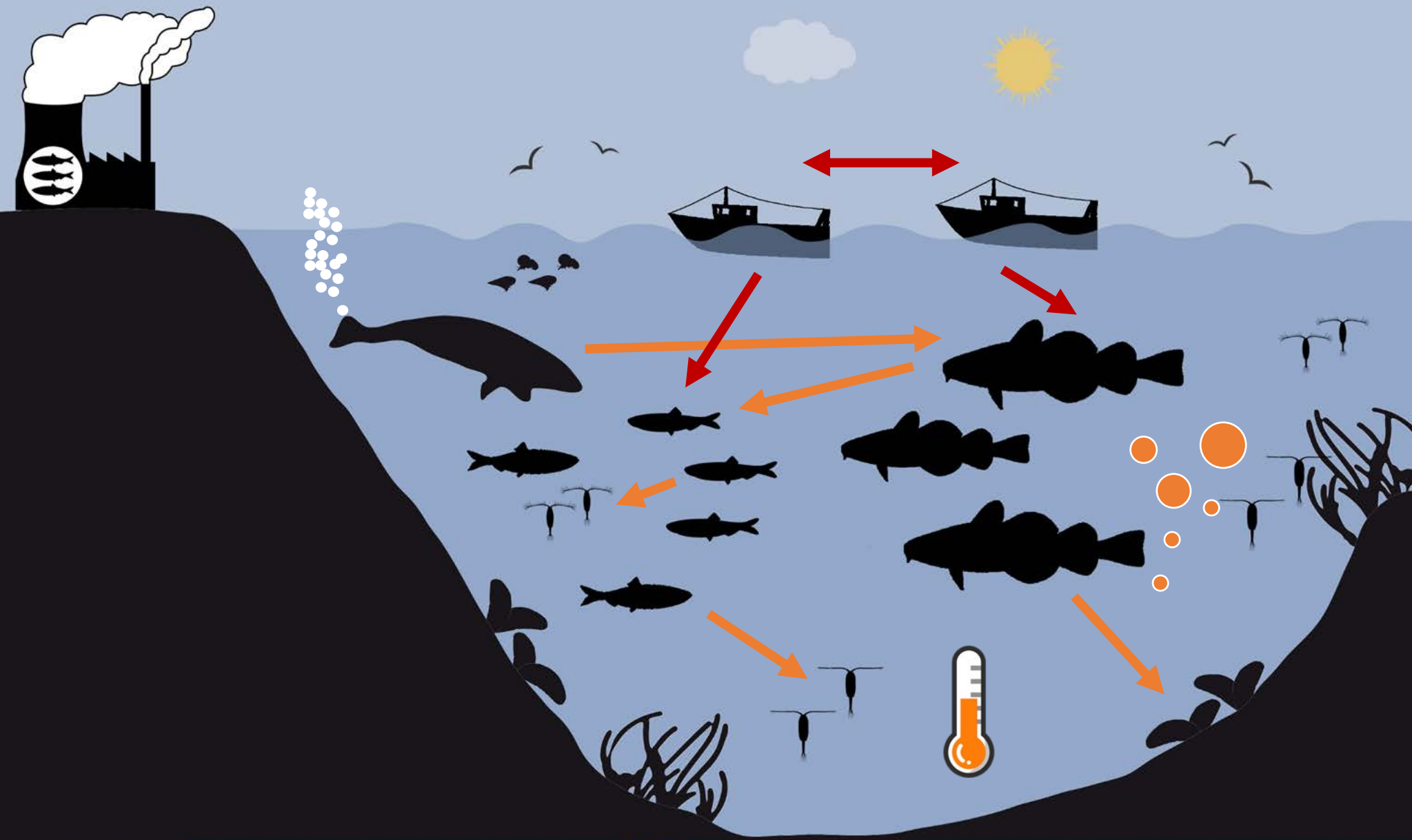
What can be managed?

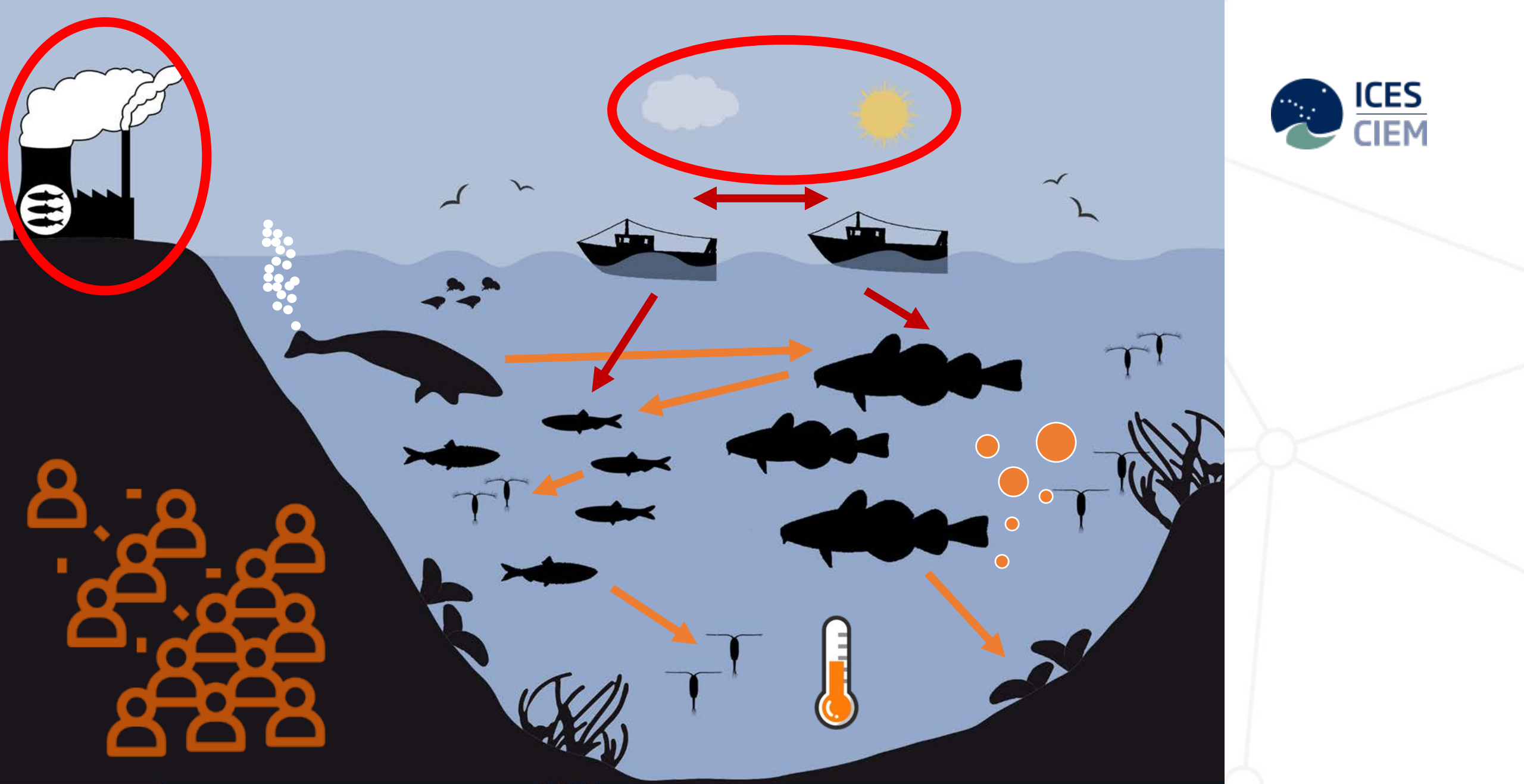
What are boundary conditions?

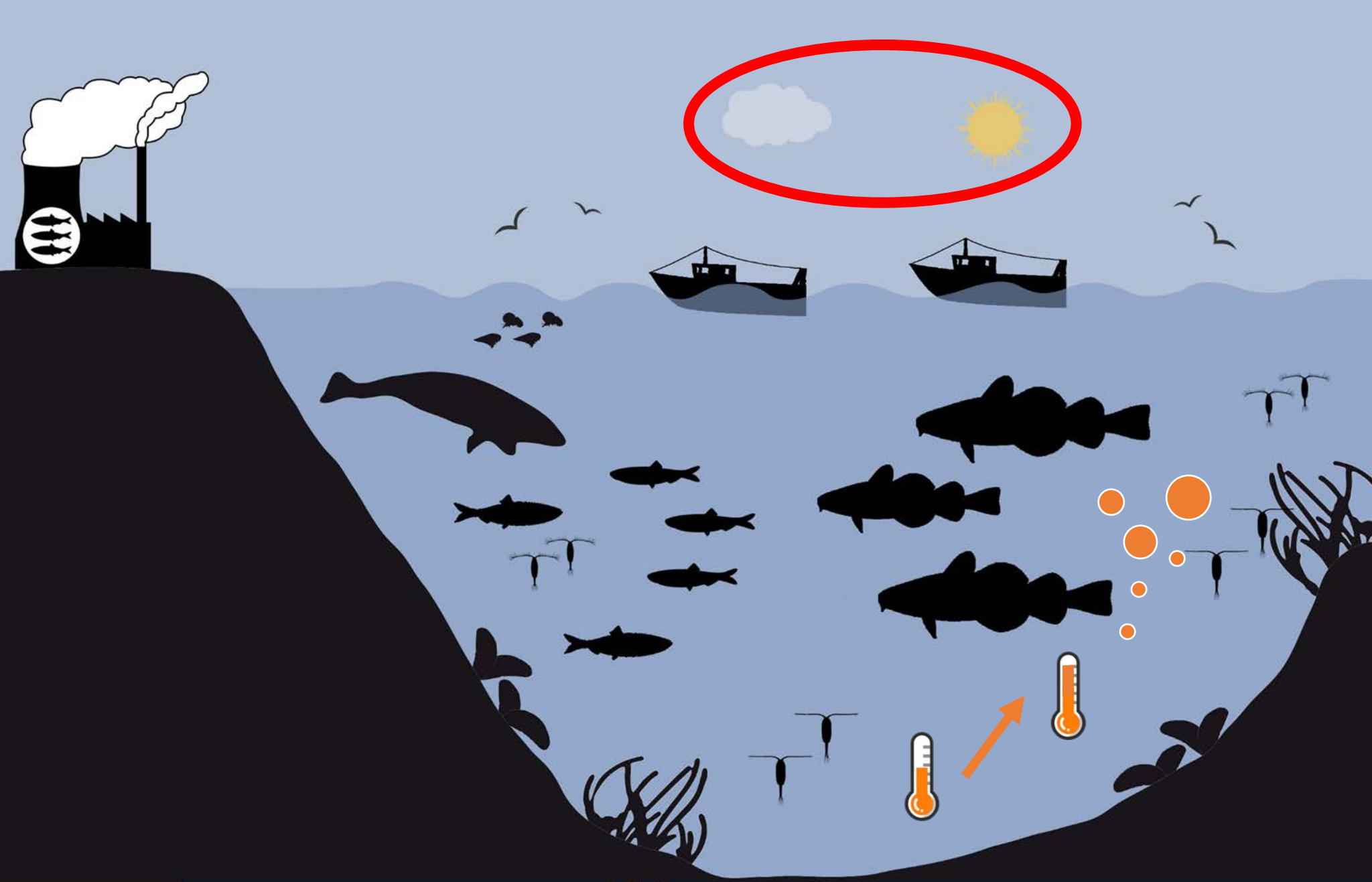












Ecosystem based approach to management



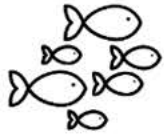
Climate change is affecting ecosystems in a way that challenges science and governance.

The **ability to respond** to climate variability and change is key for resilient fisheries and depending communities.

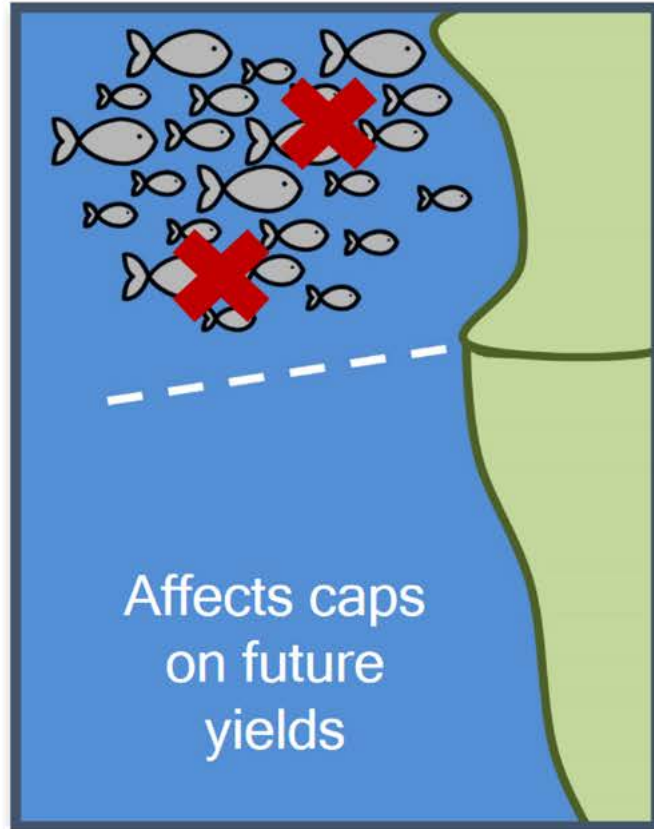


Photo by [USGS](#) on [Unsplash](#)

Change in fishable stocks caused by climate



Changes in Productivity



Changes in Range

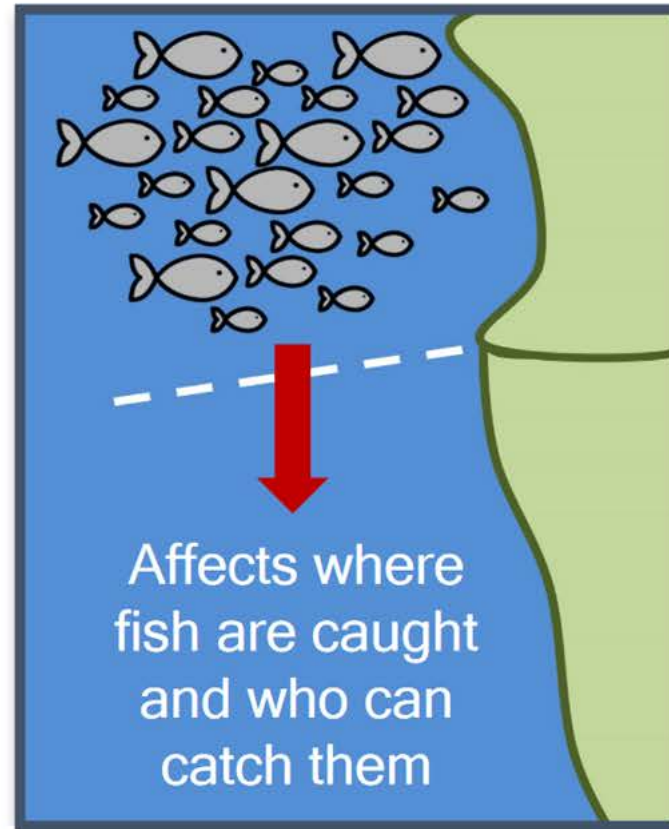




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The next presentations will showcase examples where sufficient observational data and system understanding allowed the development of models to forecast climate, ocean and ecosystem components

Thank you very much!



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Science for sustainable seas