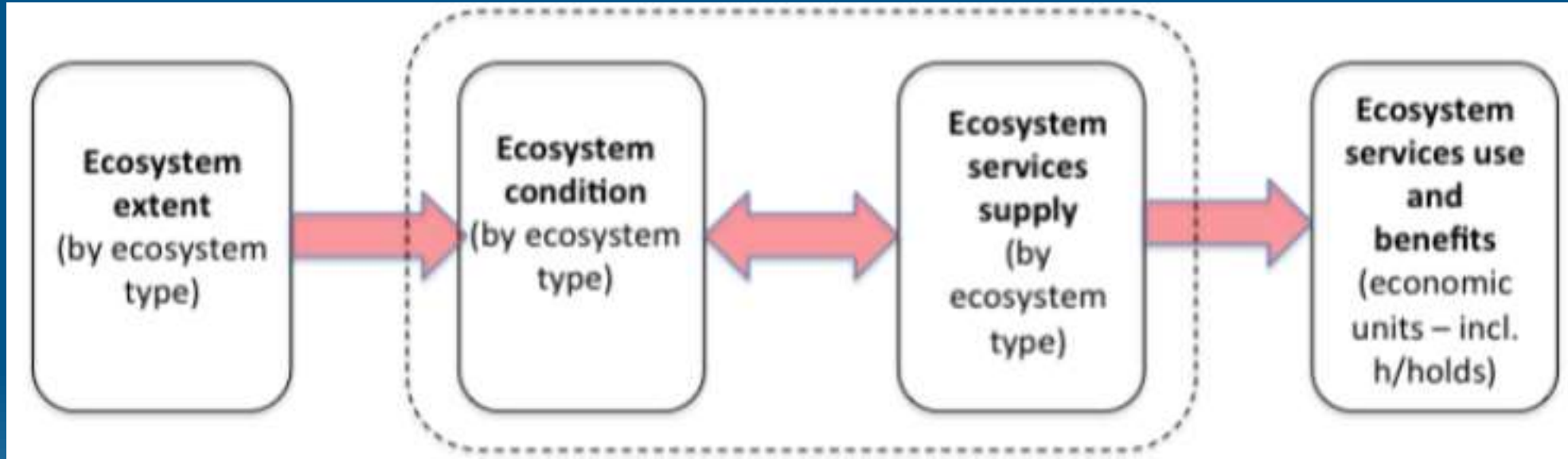


Ecosystem services valuation & ecosystem accounting techniques for marine systems in South Africa

Jodie Reed, Prof. Mandy Lombard,
Prof. Ken Findlay & Prof James Blignaut



- Ecosystem Accounting:



- System of Environmental-Economic Accounting (SEEA)
Experimental Ecosystem Accounting (EEA)
- Support and analysis
- Integrate environmental information into economic measures
- Recognise connections



- Ecosystem Accounting:

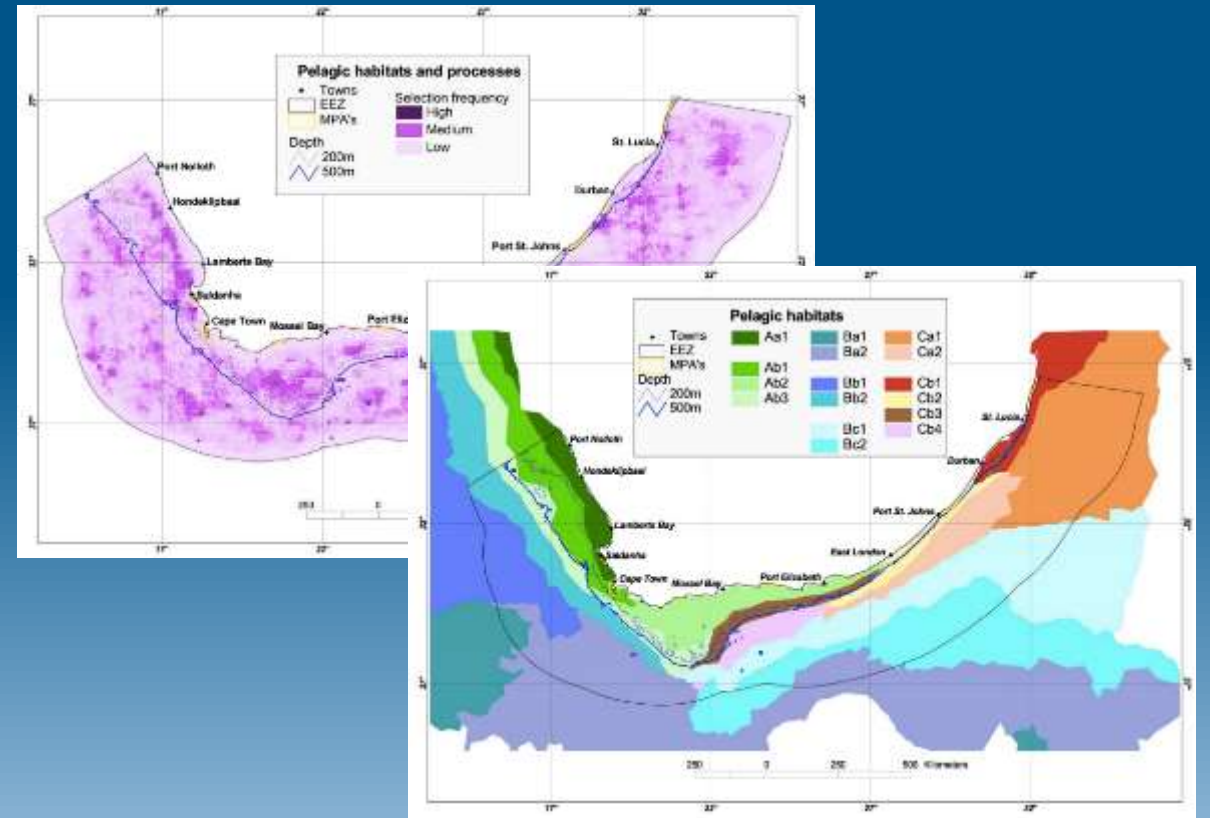
- Distinguishes between the Ecosystem Asset and Ecosystem

Services (ES)

- Spatially explicit

- South African focus on river and land cover accounts

- Marine accounts?



- Operation Phakisa – unlocking the economic potential of our coasts
- Sustainability = wise use & maintenance of assets
- Marine Ecosystems provide wide range of ES



Provisioning Ecosystem Services



Regulating Ecosystem Services



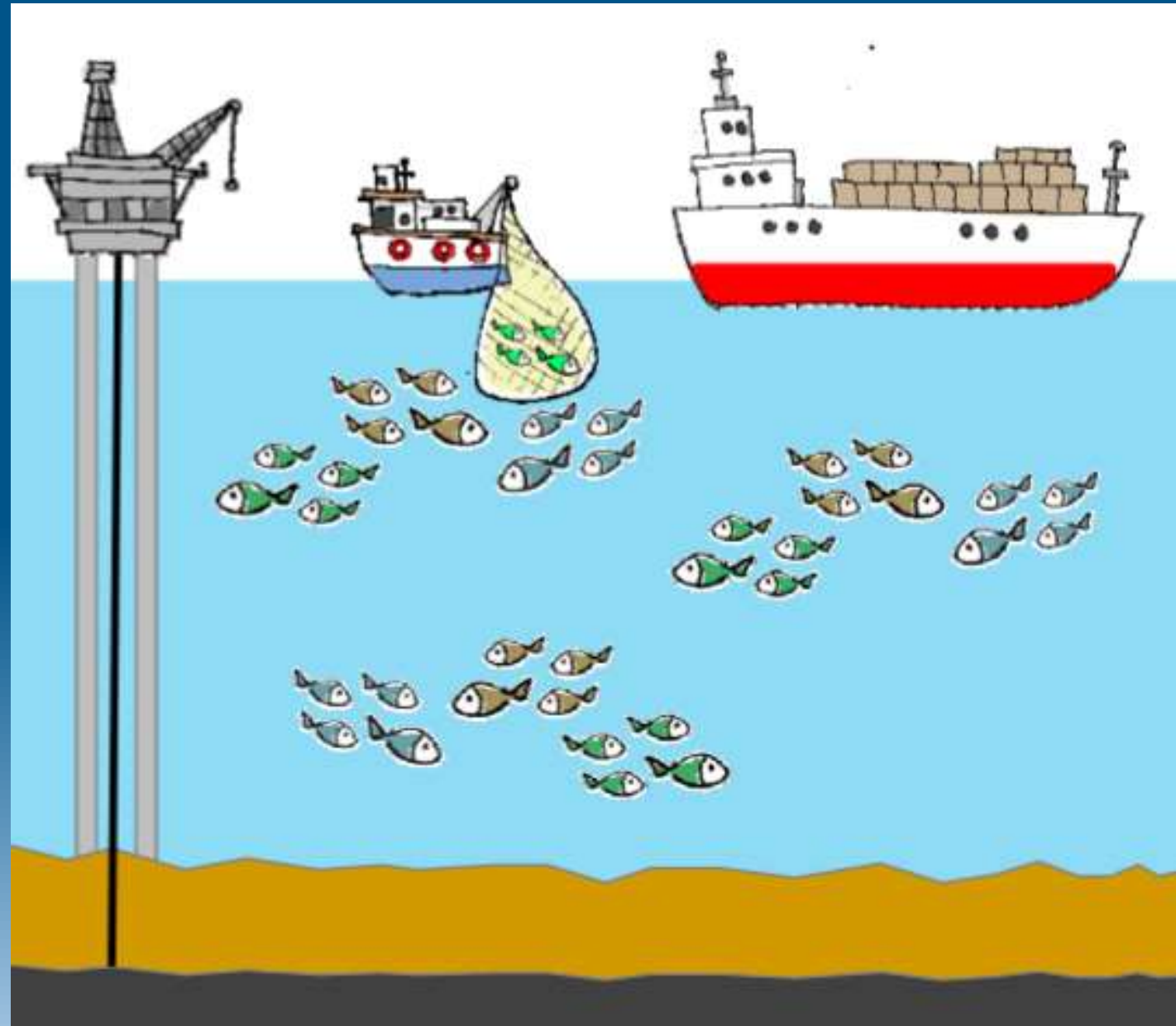
Cultural Ecosystem Services



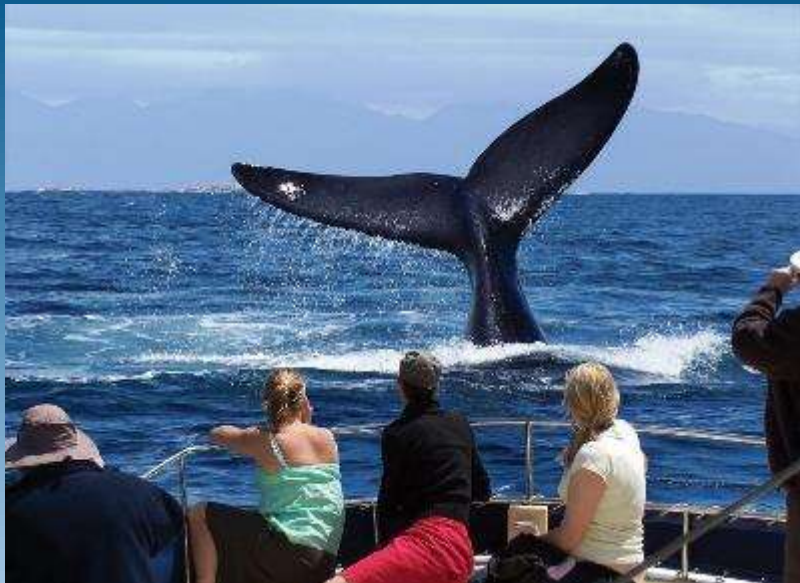
Supporting Ecosystem Services



- Increased marine resource use = increased conflict
- Conflict resolution among stakeholders will be necessary



- Project proposal:
- Develop marine EA framework
- Develop methods
- Identify currencies



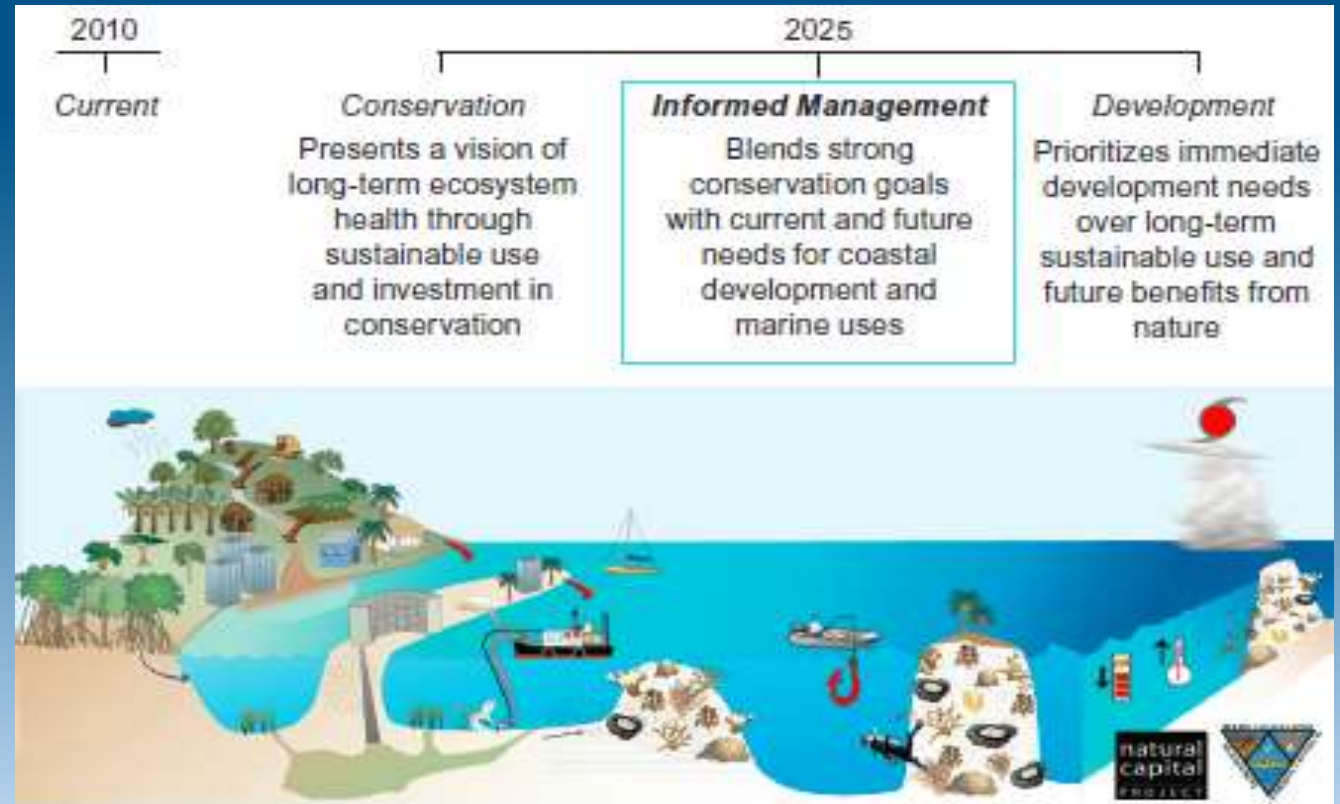
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- Case study - assess EA framework
- Possibly one of proposed Phakisa MPA in KZN

- InVEST – scenario planning to assess tradeoffs



- Aim: a better understanding of economic implications of changes to marine ecosystems in SA – imperative for spatially explicit management of marine resources

