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
• 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