

Linking water and ecosystem-based management for sustainable development from source to sea

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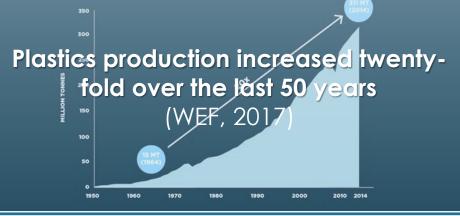
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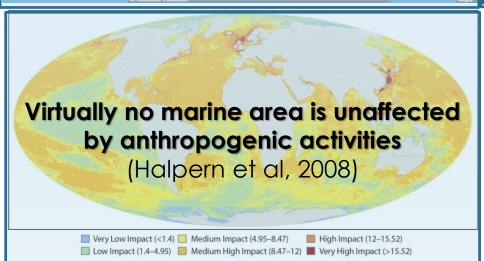


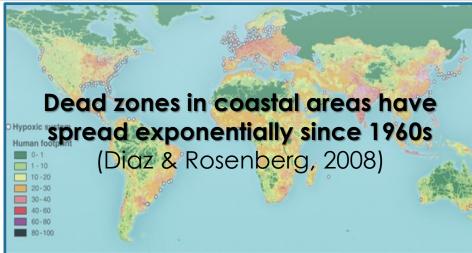


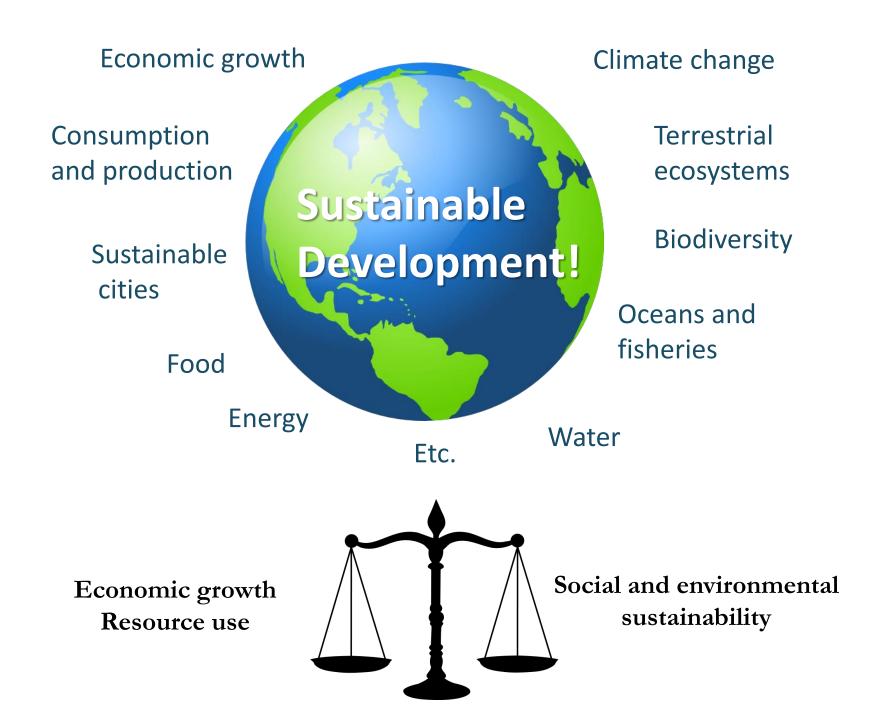




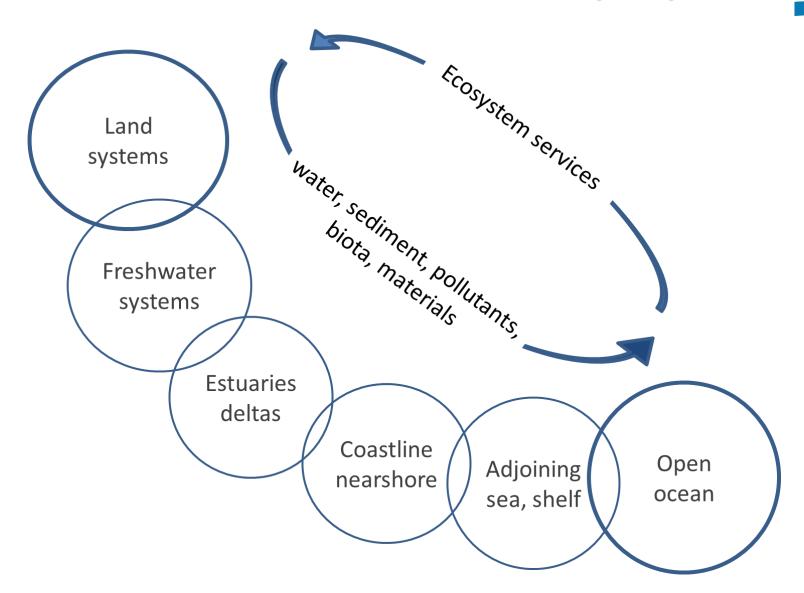








Land and oceans are connected by key flows



Factors contributing to "source-to-sea" blind development

Political priorities & power dynamics between (up- and downstream)



Awareness, incentives, stronger global to local policy consensus

to assess and address S2S priorities



Technical support

Staying in the "comfort zone" - jurisdiction and stakeholders



Demonstrate benefit of local cooperation, issuefocus

Available financing tends to be sectoral



Funding streams prioritizing S2S measures

Necessity = the mother of progress

The new normal



Climate change



Population growth/ urbanization



Increasing consumption/ production

Integration – segment by segment

	Land/ terrestrial	Freshwater systems	Deltas/ estuaries	Nearshore coast/Adjoining sea /Open ocean
Common goals	Sustainable use and long-term productivity of ecosystems			
Different areas of focus	Increased productivity (e.g. food), housing, infrastructure	Water allocation Drinking water quality Service provision Key	Flood risk Eutrophication Salinisation y flows	Allocation of uses of coastal/marine space Fisheries Eutrophication/ marine pollution
Different management approaches	Integrated land/forest/ waste mgmt, urban and land use planning	environmental flows	Delta management, IWRM, ICM, Marine Spatial Planning	Planning, Ecosystem Approach to Fisheries Management

Lessons learned from IWRM and ICM

Links to national policy and legal system	Necessary for effective implementation, but often missing	
Funding	Often short-term, project-based May not extend over planning phase	
Boundary definition	River basin/coastal zone vs. municipality/district for example	
Institutional restructuring	Often pre-requisuite for effective implementation – but a huge task	
Strong focus on process and procedural integration	At the expense of outcomes?	
How to evaluate success?	Few accepted evaluation frameworks	
Gap between river basin and coastal management	Still prevailing	

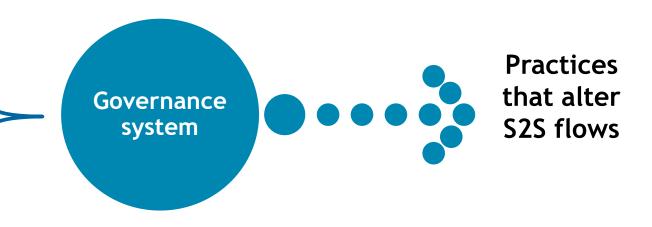
Resource use & management

Environmental protection

Development policies

Segment or sector governance

Negotiated agreements & multi-stakeholder groups



Mathres, Tengberg, Liss Lymer, Sjodin. In progress. S2S Practitioners Guide.

Base interventions on local context

- Holistic includes both upstream and downstream linkages, considers cumulative impacts
- Participatory engage stakeholders from different segments, sectors
- Context-dependent responsive to the local situation
- Collaborative embed into existing institutions, established methods and on-going processes
- Focused prioritise flows to address in the project or programme
- Results oriented achieve intermediate outcomes
- Adaptive learning by doing through pragmatic implementation

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Guiding principles for a source-to-sea approach



Thanks to: S2S Platform













































