

Healthy Ocean Healthy Planet Healthy People

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Outline

- The link between land and sea – a holistic approach
- The value of marine ecosystems - a Blue Economy for a sustainable future
- A Global Partnership for Ocean – innovations and engagement

1) A Global Context

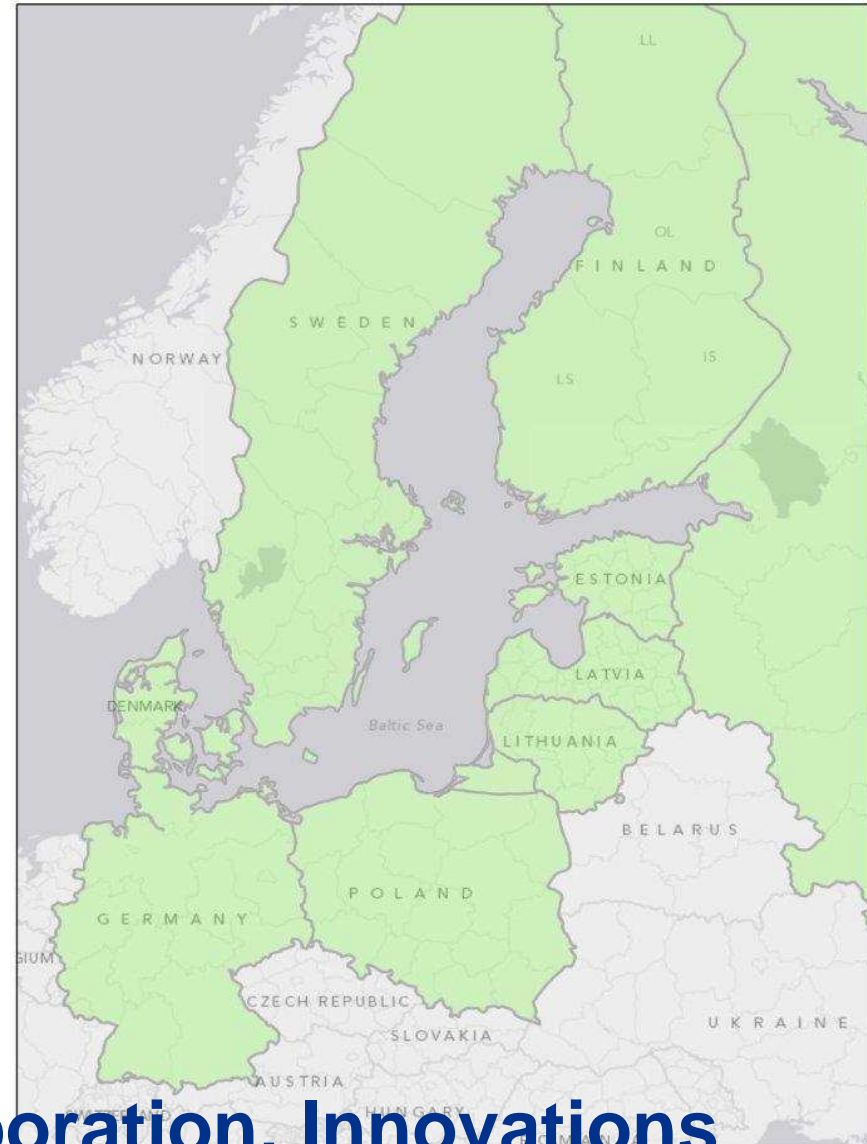
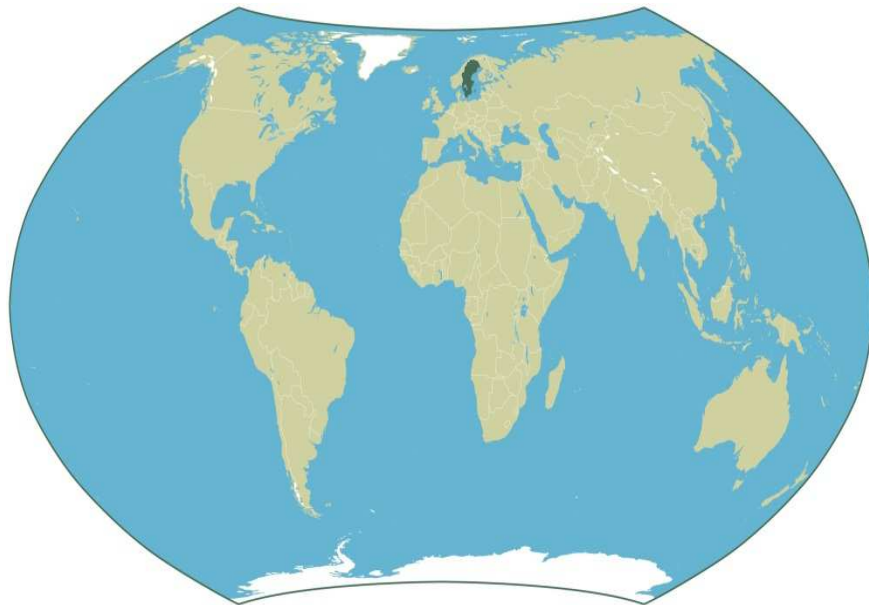
- 97,5% saltwater, 1,6 % glacier, 1,7% not available - only 0,8% of Earth's water is available
- 70% of water usage to agriculture sector
- 2013: 7 billion people - 2050: 9 billion
- Ca 47% lives in water scarcity area 2030
- Future water usage? Virtual water 120 litres = cup of coffee
- Need for innovative sustainable solutions

OCEAN – IS THE RESOURCE FOR FUTURE GENERATIONS

1) The link between land and sea

- Food Security – aquaculture
- Energy Security - ocean energy: seawater desalination
- Waste management - pollution, plastic (recycle, reuse, reduce)
- Agriculture - eutrophication (nutrients, phosphorus)
- Climate change – increase acidification – blue carbon storage
- Shipping & transportation – more trade - more vessels
- Security aspects - IUU, border, immigrations, trafficking
- **The Blue Frontier - new opportunities and challenges**

1) One Ocean



The Blue Frontier: Holistic Planning, Collaboration, Innovations

1) The regional seas - the Baltic case

- An Environmental Paradox? (Brackish water, and shallow 500 m)
- One Sea: 9 countries Russia, Finland, Sweden, Denmark, Germany, Estonia, Latvia, Lithuania and Poland. Total 85 mil people.
- Ocean is an economic, social and culture issue. But also security and peace.
- We need to make it a case outside the pure environmental groups.

1) Swedish Ocean Policy

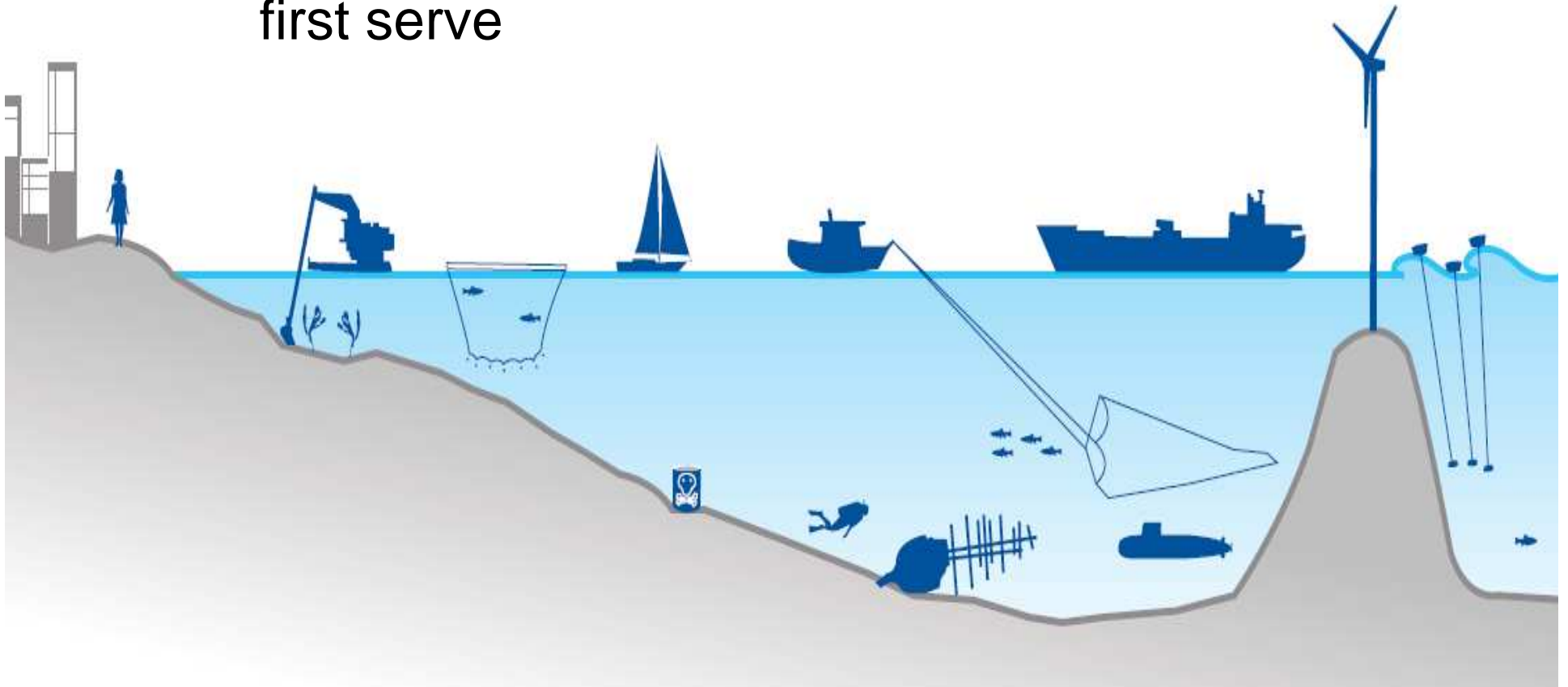
International co-operation is necessary:

- Baltic Sea Region 8 of 9 are EU members
- EU policies cover agriculture, energy, fishery, marine- and water management
- EU Strategy for the Baltic Sea Region
- Regional sea conventions - HELCOM, OSPAR and the Arctic Council
- International outreach



1) Marine Spatial Planning (MSP) - Blue Growth

- Meets the increasing pressure on the Seas
- Prohibits a 'wild west mentality': first come – first serve



2) Integrated Management vs sector by sector

Marine transport

Aquaculture

Cultural heritage

Energy

Extraction and
mining

Marine protected
areas

Fisheries

Military use

Recreation and
tourism

ECOSYSTEM

MARINE SPATIAL PLAN

2. Value of Ecosystem services – Foundation for a Blue Economy



2) What is the value of a healthy ocean?

- Need for identification of ecosystems and their services - both for protection and development
- Mapping and assessments of biodiversity data
- Trade-offs, policy options and its consequences
- Stakeholder engagement – What should be protected – what should be used and for what?

2) Blue Economy

- **Sustainable usage of marine resources**
- **Must be based on evaluation of Ecosystem services**
- **Sweden: Action Plan 2014 for Maritime industry**
- **Forthcoming 2015: Maritime Strategy based on MSP and Ecosystem Services**
- **Baltic Regional Cooperation**
- **Capacity building and knowledge transfer**

2) The Benefits of Action

- Jobs 550,000 Jobs 32B€ value added
- Nutrient recycling: From linear to cyclic management, eg waste water treatments. An effective Agriculture sector, Nutrients P- Nx.
- Phosphore on world market – Recycle Reuse Reduce
- Shipping PPP platform “Lighthouse” – Methanol Ferry inaugurated last week
- Fishing nets: (600 years) Interface Carpets keep on fishing
- Plastic/microplastic – industry is taking action
- Aquaculture: Clean technologies for waste water, fish feed
- Ecosystem approach – wetlands increase resilience
- Waste Water plant – mussel farms collaboration

2) Educate what we know (ESD)

- Demonstrating the economic value provided by ocean could reveal new economic opportunities.
- It could also play a role in policy and management approaches that enhance sustainable development of natural resources in the marine environment
- More data on the nature, extent, and value of the EES are needed
- What are the social and economic dimensions of the marine environment?

More knowledge is needed about marine ecosystems

3) Partnerships for a Healthy Planet

- Science the foundation for informed decisions
- Civil Society & private sector are crucial
- Companies develop solutions & technologies, contribute with investments
- Civil Society local insight/knowledge/networks, leverage, transparency
- New platforms for collaboration with private sector, governments, NGOs, academia, media...

3) The role of the private sector

- Government can't do it alone - Budget restrictions
- Business can change consumer and production patterns tomorrow
- Companies are getting bigger, more markets, more companies -CORPORATE DIPLOMACY (less National)
- INNOVATIONS: new business opportunities: technology solutions, work w/ different sectors (PAPER, FISHFARMS)
- Internet, technology, revolution; NGO Public scrutiny: RISK
- Incorporating the values of their DEPENDENCY into decision making.
- Philanthropy>Compliance>Reporting>Integrated in business models
- Natural Capital and Value of ecosystems in decision making - TRANSPERENCY and DEPENDENCY

3) The Role of Governments

- Governments need to set long term regulations and laws
- Better Integrated Governance MSP
- Integrating Ecosystem Services in decision making (land and water usage)
- Polluter Pays and Precautionary Principles
- Collaboration for capacity building and innovation
- Sweden. Sweden: 2018 the evaluation of EES
- Legislative decision MSP - Based on an Ecosystem Approach, local communities need to identify EES. Decision making and political considerations are to be based on the values of EES.

Technology not the problem: Rather how can we work with people. Showing the benefits of collaboration. Show good practice and promote good leaders

Our Ocean – Everybody's Business

- Change Production and Consumption Patterns
- Awareness - mainstreaming in all policy areas
- Holistic leadership
- Need for Data and Knowledge
- Education - ocean literacy – capacity building
- Partnership with Civil Society, Private sector, Media etc.