Protecting and restoring the marine environment
-possible win-win approaches and innovations-

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The Baltic Sea is quite small......

– still bigger than we think!
Water

• Necessary for life
• Necessary for development
• Necessary for the economy

• Water problems:
  - too little
  - too much
  - too dirty (or too salty)
Beyond end-of-the-pipe solutions

• oxygenization/dredging to reduce internal nutrient load
• cultivation of and harvesting biomass (algae, plants, fish)
• recycling and reusing materials before entering the waste flow
Many success stories ....
but some big problems remains....
(such as production and consumption of food !)

- We all can see the surface of it!

From space

From our boat

At our beach
...but even worse beyond the surface!
A healthy sea provides ecosystem services – free of charge!

- **Producing**  
  Food, energy, chemicals

- **Supporting**  
  Primary production, resilience

- **Regulating**  
  Climate and air quality, pollution traps

- **Cultural**  
  Recreation, Inspiration, Science
Ecosystem services
– the functions and processes through which ecosystems, and the species that they support, sustain and fulfil human life.
Problem areas....and economic impact!

- Eutrophication  
  blooms, fisheries  
  Dead bottoms, algae
- Hazardous substances
  Dioxine in fish
- Shipping activities
  Oil spill, alien species, emissions to air and water
- Biodiversity  
  Fisheries (salmon, cod, eel, pike and perch)
Saving the Baltic Sea has a cost ......

Initial cost assessment by BalticStern project for BSAP implementation:

2,3-2,8 billion Euro per year.
( EPA Report "What is in the Sea for me?")

but the welfair gain is 1,5 billion Euro per year !
Our actions must be more than a step in the right direction and must leave more than a footprint in the sand!

Thanks for your attention!