

A photograph of a sailboat on the water with wind turbines in the background. The sailboat is white with a blue stripe and the number 32 on its sail. It is sailing on a blue sea. In the background, there are two large wind turbines on a small island, and a lighthouse is visible between them. The sky is blue with some clouds.

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

Submariner Seminar, Gdansk 2013

Anders Alm, Ministry of the
Environment, Sweden

The Baltic Sea is quite small.....

– still bigger than we think!



Water

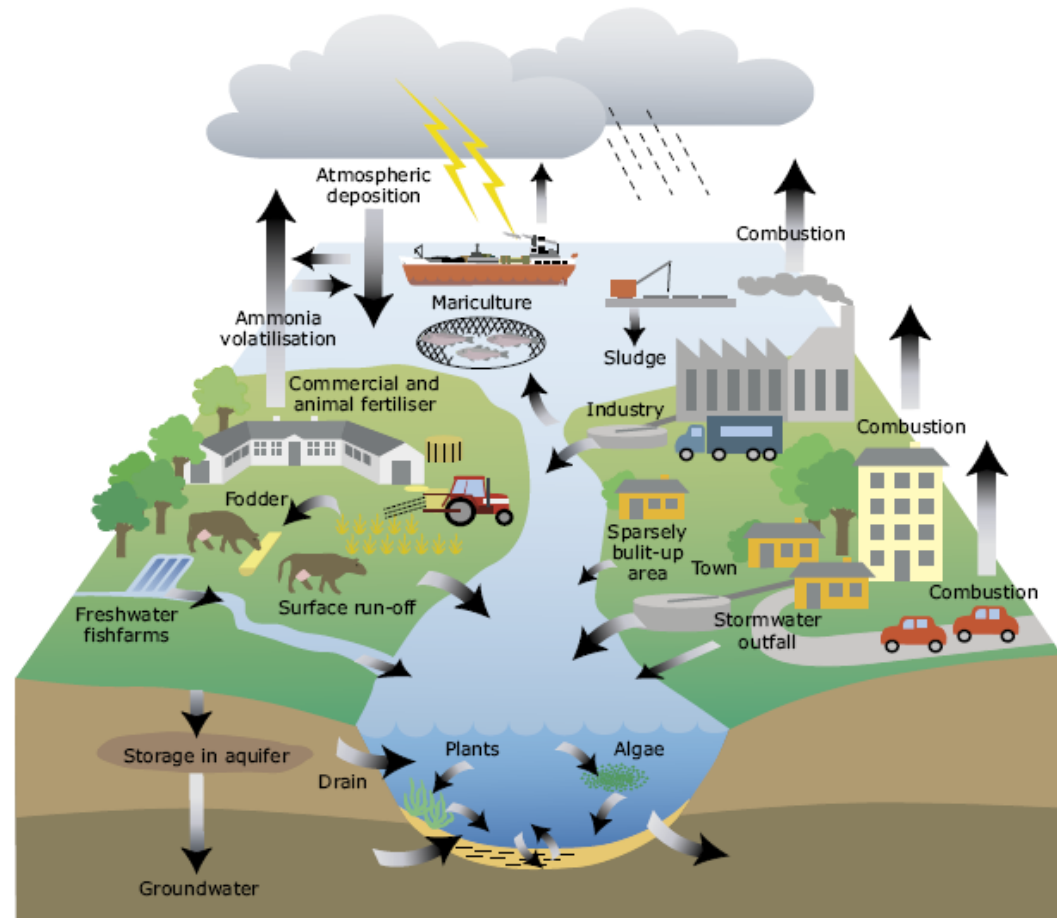
- Necessary for life
 - Necessary for development
 - Necessary for the economy
-
- Water problems:
 - too little
 - too much
 - too dirty (or too salty)



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



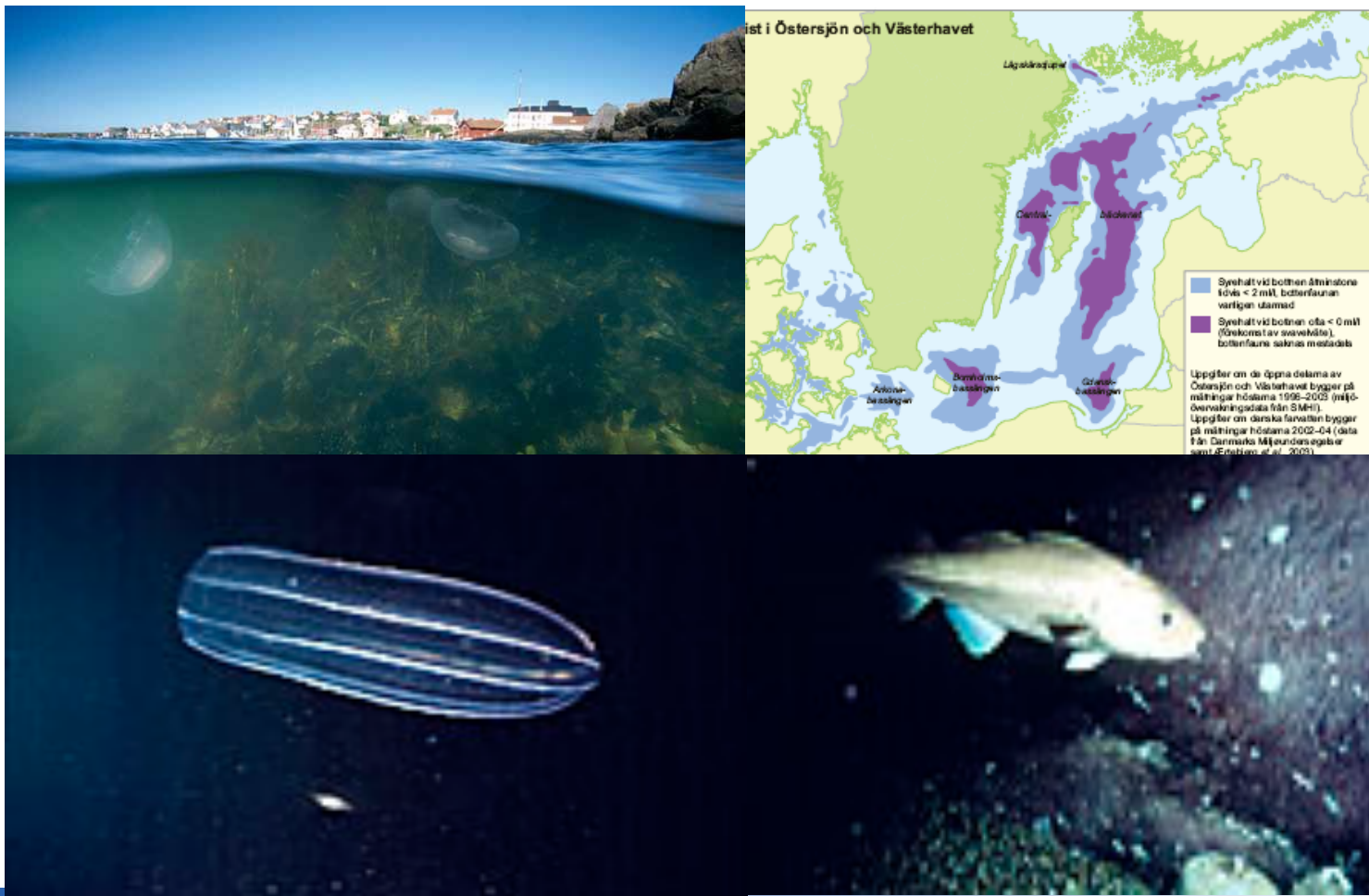
From our boat



At our beach

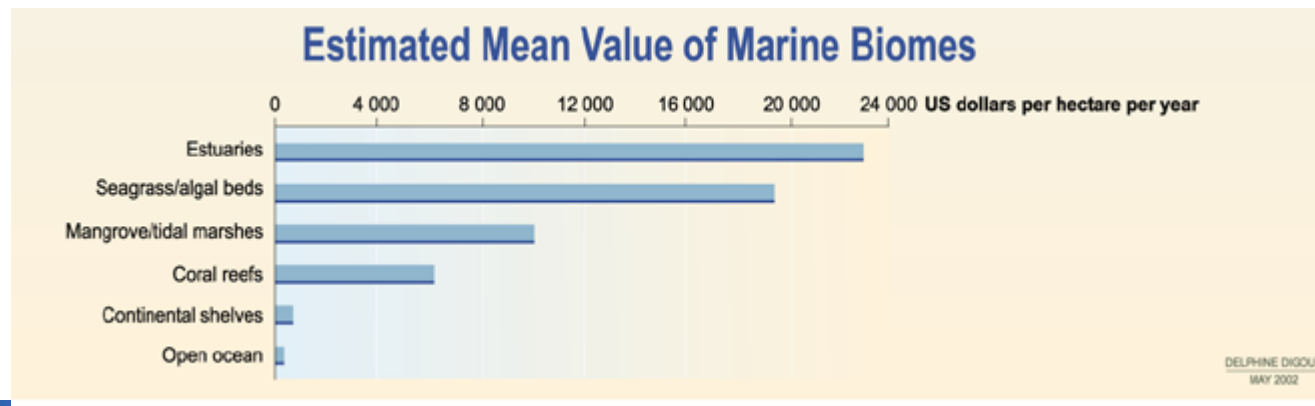


...but even worse beyond the surface!

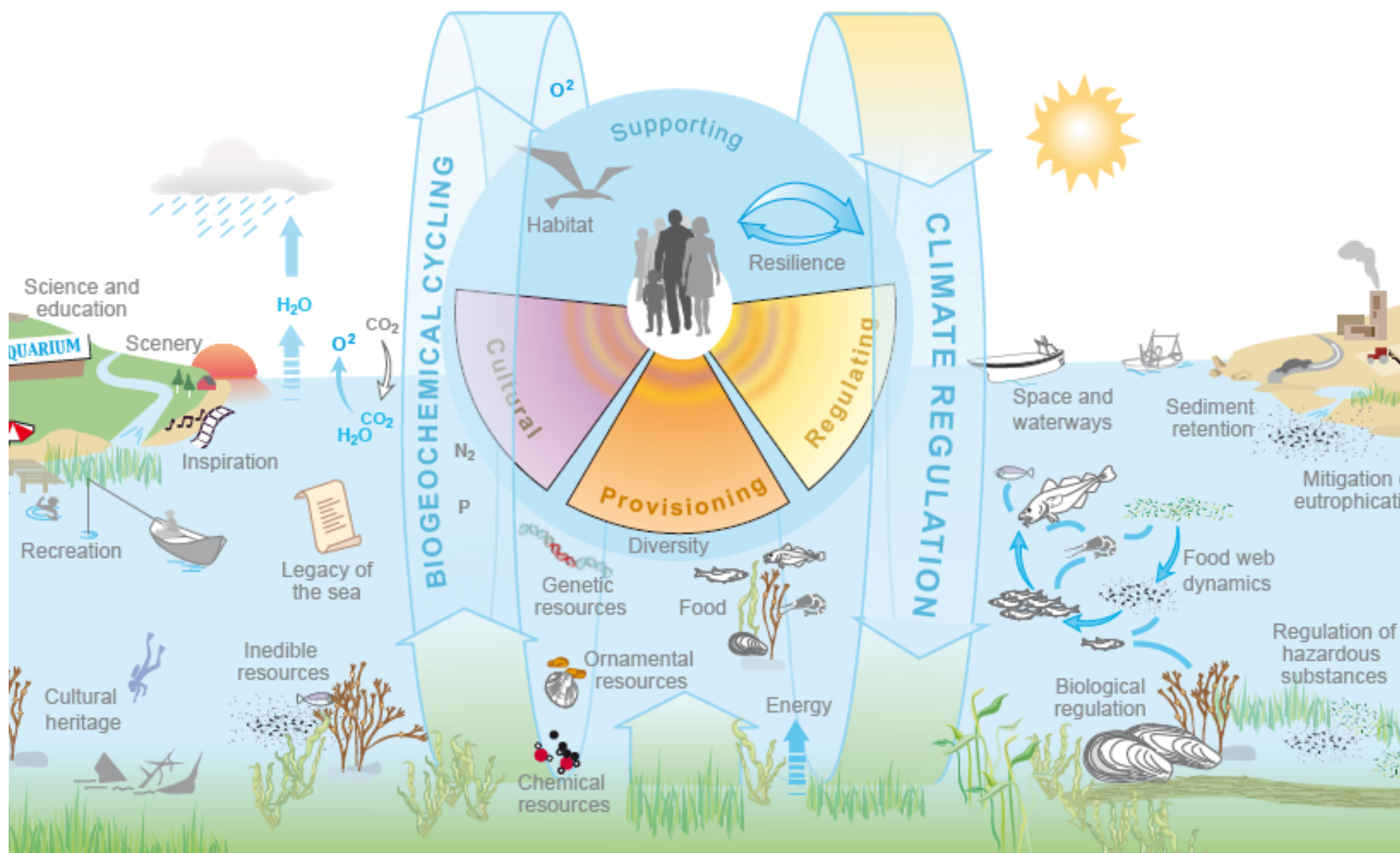


A healthy sea provides ecosystem services – free of charge!

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** **Dead bottoms, algae blooms, fisheries**
- **Hazardous substances** **Dioxine in fish**
- **Shipping activities** **Oil spill, alien species, emissions to air and water**
- **Biodiversity** **Fisheries (salmon, cod, eel, pike and pearch)**



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!