

**2ND** SUBMARINER Conference

**Better  
off Blue**

#BetterOffBlue17

Creating synergies for a biobased society

## Green and blue growth from source to sea

Jakob Granit, Director General

Swedish Agency  
for Marine and  
Water Management

16.10.17

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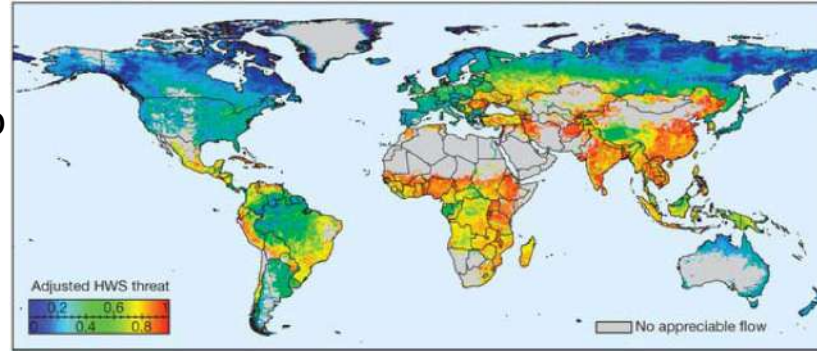
# SwAM – who are we?

- Central government agency, 2011
  - Sorts under the Ministry of the Environment and Energy
- Coordinate, guide, finance & implement
  - 5 Water Management Agencies
  - 3 Sea basin planning management districts
- Fisheries management
- Environmental monitoring & research
- International development



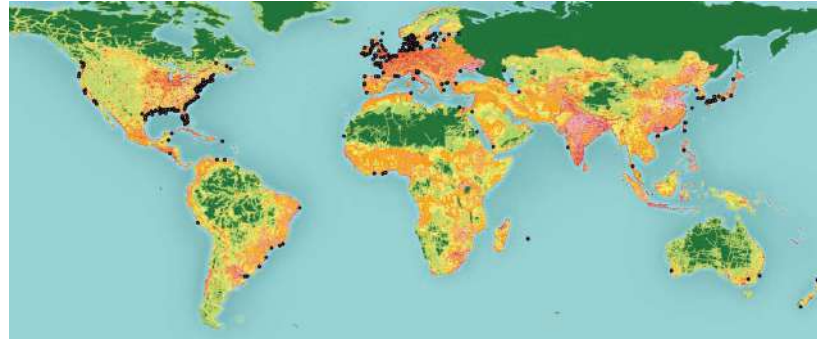
# Fresh and coastal zone water systems are rapidly degrading at a global scale

- 80% of the world's population is exposed to high levels of threat to human water security (HWS)



(Vörösmarty et al., 2010)

- Dead zones in coastal oceans have spread exponentially since the 1960s

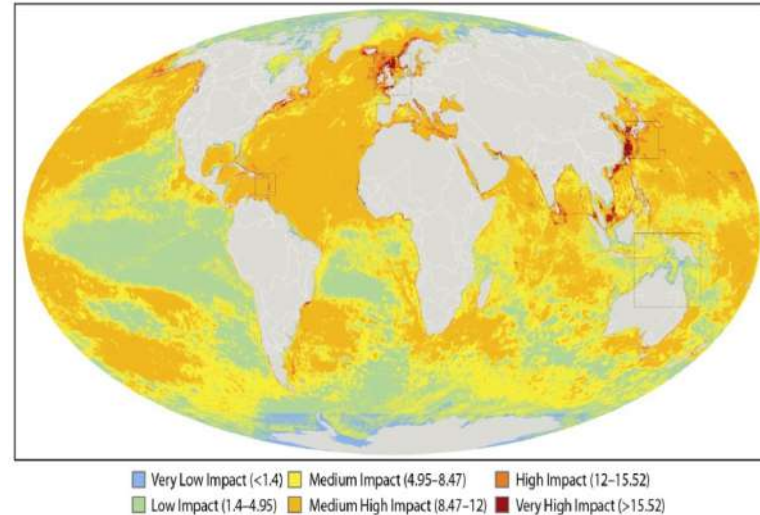


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(Robert J. Diaz & Rutger Rosenberg, 2008)

# Virtually no marine area is unaffected by anthropogenic activities

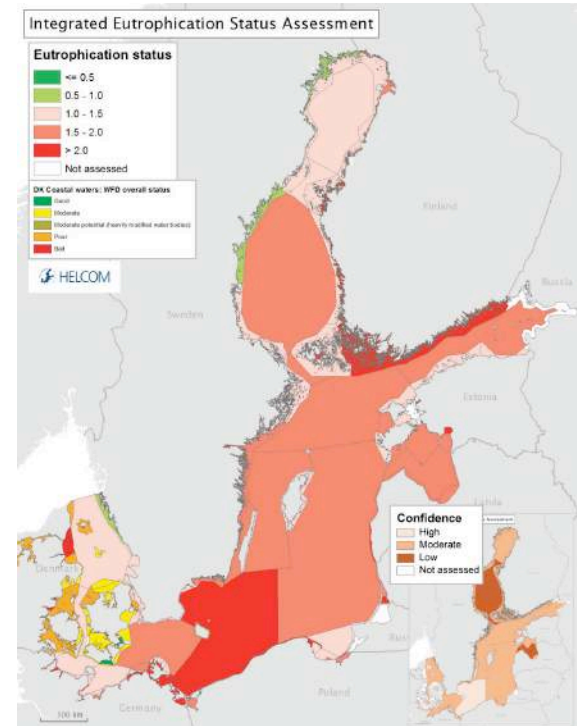
- Face pressure from:
  - Extensive economic activities
  - Upstream pollution
  - Increasing water temperatures
  - Sea level rise
  - Acidification
  - Increased frequency of extreme weather events
  - Unsustainable fishing practices



(Based on Halpern et al, 2008)

# HELCOM State of the Baltic Sea Key findings V1 report – June 2017

- **Eutrophication**
  - nutrient inputs from land have decreased
  - effects are not yet reflected in the status of all sub-basins
- **Hazardous substances**
  - the contamination status is elevated
  - some improving trends are seen
- **Biodiversity status**
  - inadequate for most assessed species
- **Emerging issues**
  - marine litter, no status assessment
  - underwater sound, no status assessment
  - non-indigenous species, no good status, 114 species
  - fishing, 3/8 fish stocks achieve good status,
    - 14 stocks are not yet evaluated

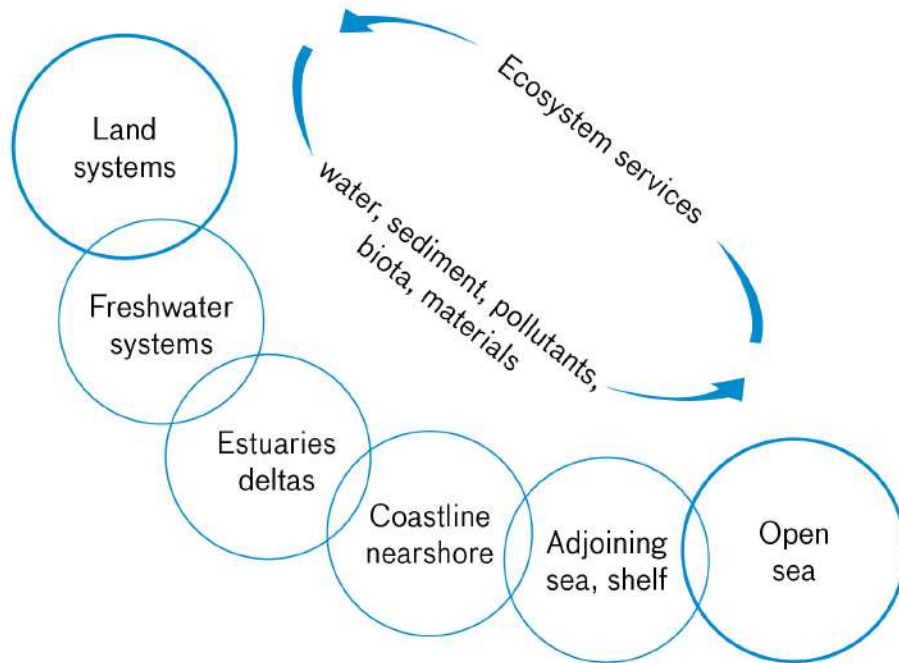


## THE GLOBAL GOALS For Sustainable Development



# Governance & management "from source-to-sea"

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SUBMARINER Network  
flagship of EUSBSR



Granit, Liss Lymer, Olsen, Tengberg, Nömmann & Clausen, 2017

# The UN Ocean Conference June 2017, hosted by Sweden and Fiji



## Swedish priorities:

1. Management of marine debris from a source-to-sea perspective
  - ~80% of marine pollution originates on land
2. Climate change and ocean acidification
3. Sustainable fisheries and blue growth

## *Promoting*

- Regional cooperation
- Marine spatial planning
- Marine protected areas





# Call for action "our ocean our future"

Havs  
och Vatten  
myndigheten



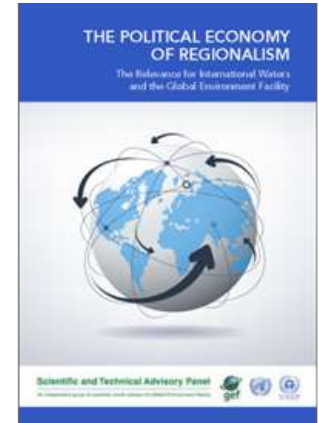
## Links to EU Aquis, eg.

- Directive 2000/60/EC - the Water Framework Directive
- Directive 2008/56/EC Marine Strategy Framework Directive
- Directive 2014/89/EU framework for maritime spatial planning
- EU Common Fisheries Policy
- Blue growth policy area
- EU Our Ocean conference, Malta October 2017

# One UN Ocean Conference outcome - Regional governance matters

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- Link state and non-state actors at various levels over time ('nested governance')
- Provide frameworks for multi-country cooperation & change behavior
  - norms, trust, institutions, reciprocity, transaction costs, reduce power games
- Ensure (national) political commitment and buy-in at different regional 'scales'
  - Continent, macro-region, sub-regions, micro-regions
  - EU, Baltic Sea Region – BSR Strategy, ASEAN, OAS, CARECOM, AU, SADC, EAC



Söderbaum &  
Granit, 2014

# Key Swedish national policy areas from source-to-sea Demonstrating societal value from good water & marine management

Swedish Agency  
for Marine and  
Water Management

- Green growth
- Blue growth and the Swedish maritime strategy
- A circular biobased economy
- A new climate policy framework act
- Land-sea interaction – MSP



# Swedish strategy for the development of the maritime industries - Vision

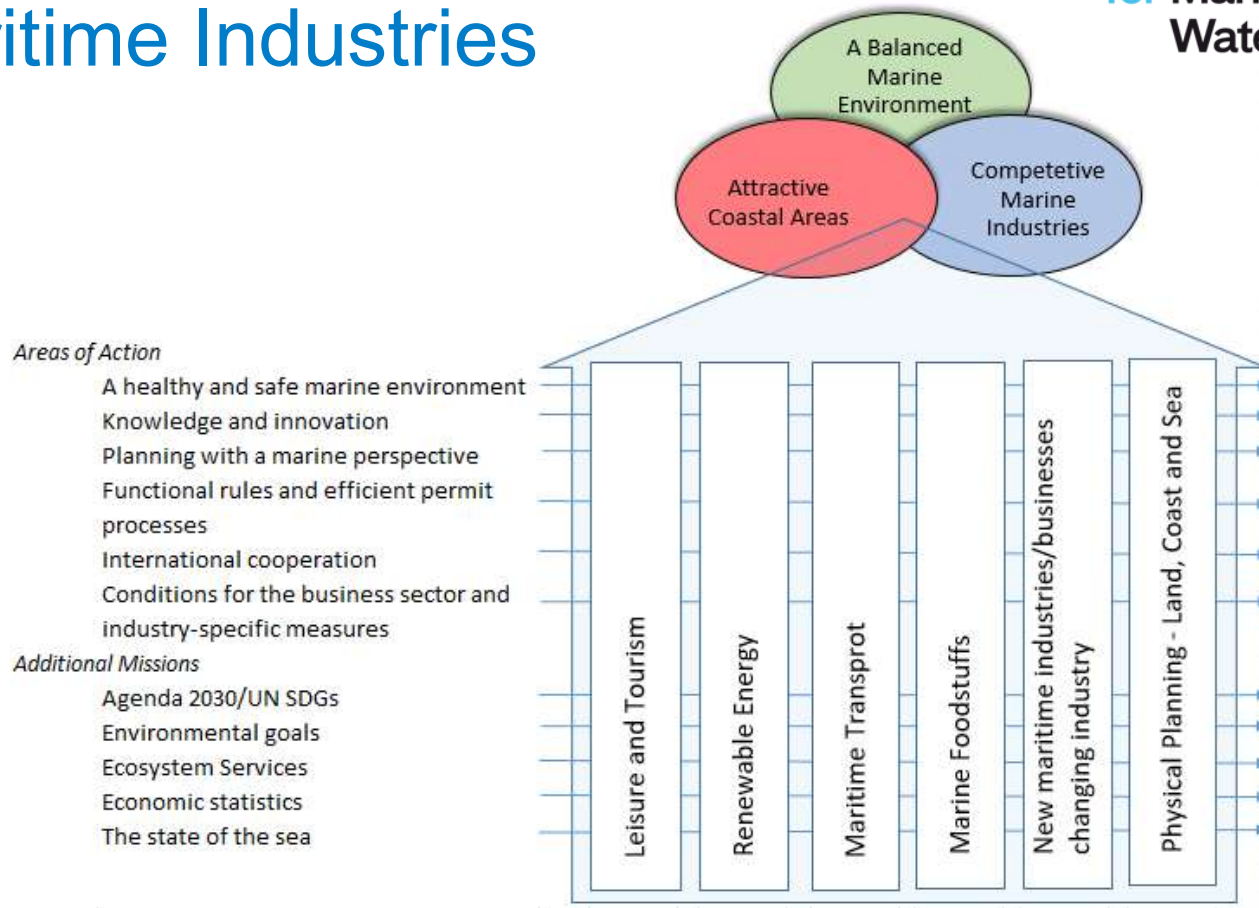


*“A competitive, innovative and sustainable maritime sector can contribute to increased employment, reduced environmental impact and an attractive living environment.”*

<http://www.government.se/contentassets/9e9c9007f0944165855630ab4f59de01/a-swedish-maritime-strategy--for-people-jobs-and-the-environment>

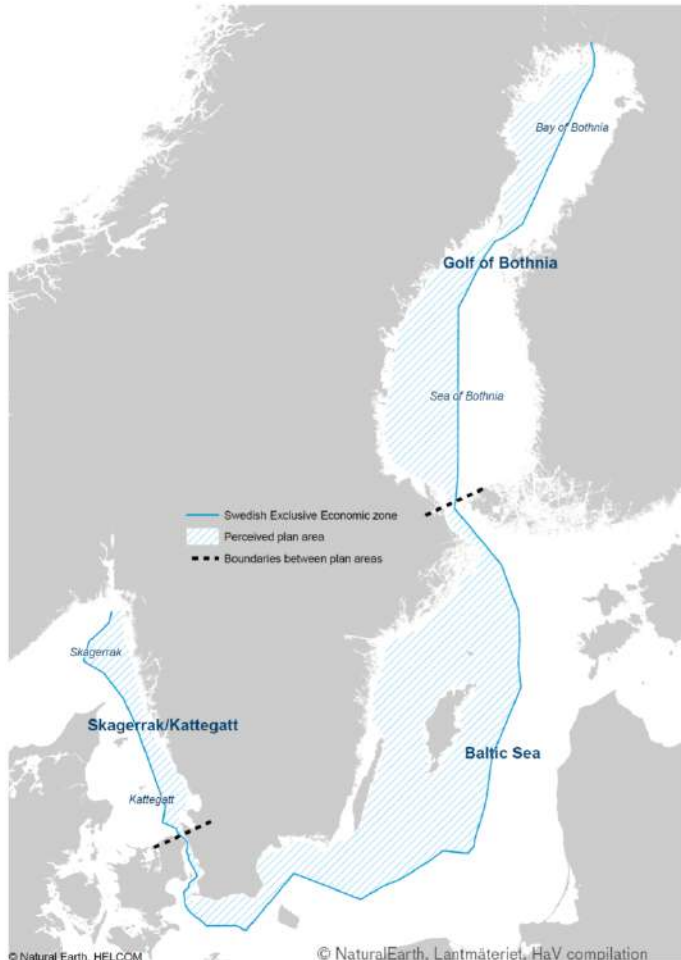
# Capturing Sustainable Development of Maritime Industries

Swedish Agency  
for Marine and  
Water Management



## Swedish Marine Spatial Planning

- Integrate economic, social and environmental policy objectives (Swedish Maritime Strategy)
  - Eg. defence, navigation, energy, fishing, sea-bed mining, marine protected areas, coastal zone development, other uses
- Contribute to good environmental status (Marine Strategy Framework Directive)
- Contribute to sustainable use of the sea so that maritime industries can develop
- Promote coexistence between different uses
- Prioritize between national interests and uses
- Objective is to contribute to sustainable development



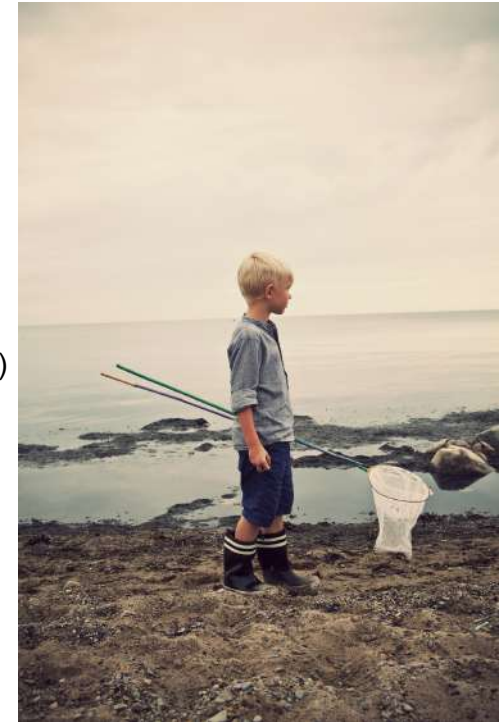


# Blue & green growth conclusions

## SwAM's perspective

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1. System thinking, upstream to downstream, source-to-sea
  - SDG but context and scale specific
  - Data and transparent information
2. Clear objectives
  - Jobs, sustainable development, environmental conservation etc.
3. Commitment and ownership by stakeholders
  - Local, national, regional (eg. EU, HELCOM, Gov, private sector, academia, civil society)
4. Need for institutions at all scales to manage change process towards sustainable development
  - Learn from past cycles of governance, eg legal frameworks
  - Behavioural change
5. Innovation systems
  - Governance & management; technical, financial systems and markets, research







Conference organisers:



in the framework of:



**Baltic Blue Growth**

Co-organiser:



in the framework of:



In cooperation with the following SUBMARINER Network projects:



**ALLIANCE**



EUROPEAN  
REGIONAL  
DEVELOPMENT  
FUND



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**Swedish Agency  
for Marine and  
Water Management**



A European Biotech Week event

