



Supporting the blue economy

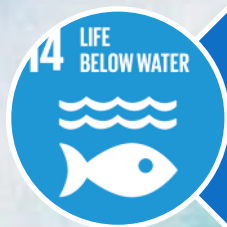
European Union approach

**Haitze Siemers
DG MARE**

**European Commission
November 2017**



Improve the international ocean governance framework



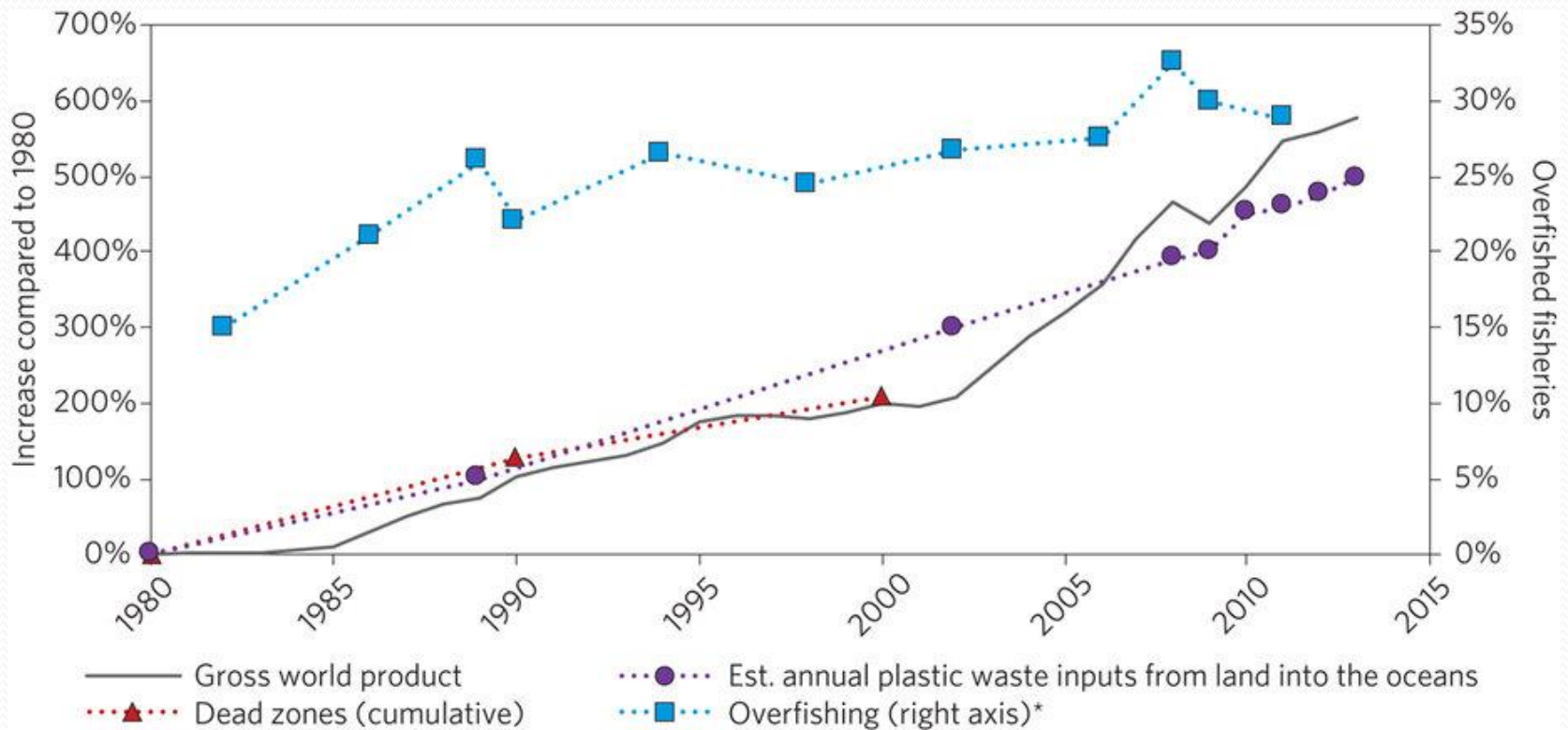
Manage the maritime economy sustainably



Strengthen international ocean research and data

Can growth and environmental impact be decoupled?

Trends in gross world product, overfishing and ocean pollution



Blue Growth Strategy

other **sectors of the blue economy** crucial for value & jobs



Transport
(cargo & ferry)



Fisheries



Offshore oil & gas



The **5** Blue Growth sectors

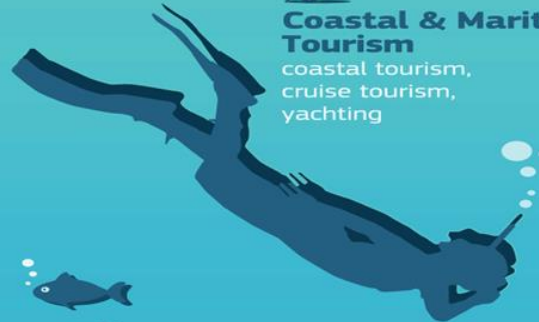
 **Biotechnology**
medicines,
industrial enzymes



 **Renewable energy**
wind, waves,
tides, biofuel



 **Coastal & Maritime Tourism**
coastal tourism,
cruise tourism,
yachting



Aquaculture
farming of fish,
shellfish, marine plants



 **Mineral resources**
gravel, sand,
zinc, cobalt,
copper



- **Status and Outlook**

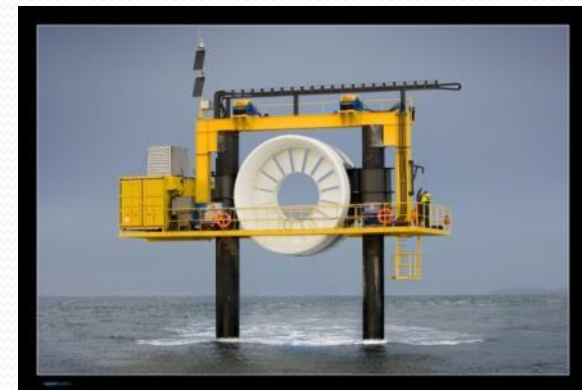
- offshore wind nearly competitive with fossil fuel
- ocean energy investments €535 billion 2010-2050 expected

- **Challenges**

- more cost-effective and better performing
- bring new technologies to the market
- remove unnecessary regulatory obstacles
- mobilise investments :

- **EU support**

- €150 million EU research over the last 10 years
- EIB loans
- A public-private partnership on Ocean energy
- Data collection on the environmental impacts



- Challenges

- increase production :
- develop sustainable practices
- high-quality products
- improve access to space and water
- improve perception
- mobilise investment

- EU support

- financial support:
 - €1,2 billion structural support (2014-2020)
 - €46 million (research, 2016)
- create Aquaculture Advisory Council
- "Farmed in the EU" campaign



- challenges

- quality and less precarious jobs
- reduce environmental footprint

- status

- Cruise shipping: increase in passengers visits by 22% between 2009 and 2014

- Actions

- Focus on cultural heritage: cooperation with UNESCO
- new transnational nautical routes
- cruise operators dialogue
- Fisheries Local Action Groups (FLAGs)
- Community-led development

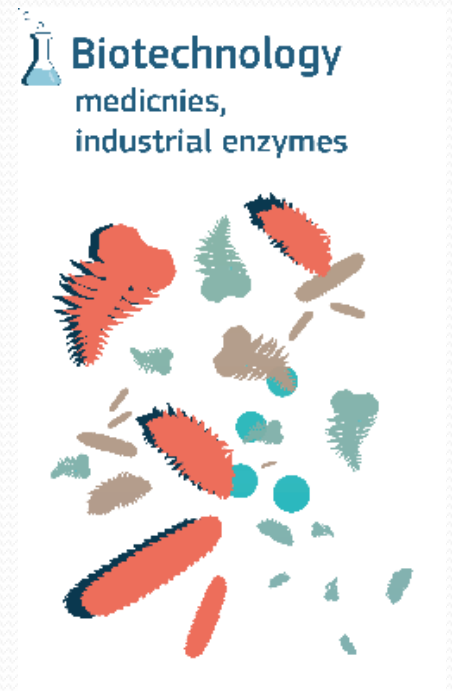


- **Challenges**

- very-long term process for developing marketable products
 - 15 novel marine compounds approved for clinical use, 4 of which to treat cancer
- red-tape for access to genetical materials

- **Actions**

- €26 million allocated to research projects
- blue bio-economy forum



- Challenges
 - To inform decision and policy making
 - Next generation of products and services
- Actions
 - Horizon 2020: about €260 million per year for marine research
 - International cooperation: for instance, the 2013 Galway Statement



- Challenges
 - improve cooperation
 - common information exchange
- Actions
 - Adoption of the EU maritime Security Strategy (2014)
 - Improved civil-military cooperation
 - Common Information Sharing Environment (CISE)
 - cooperation on coastguard functions between agencies



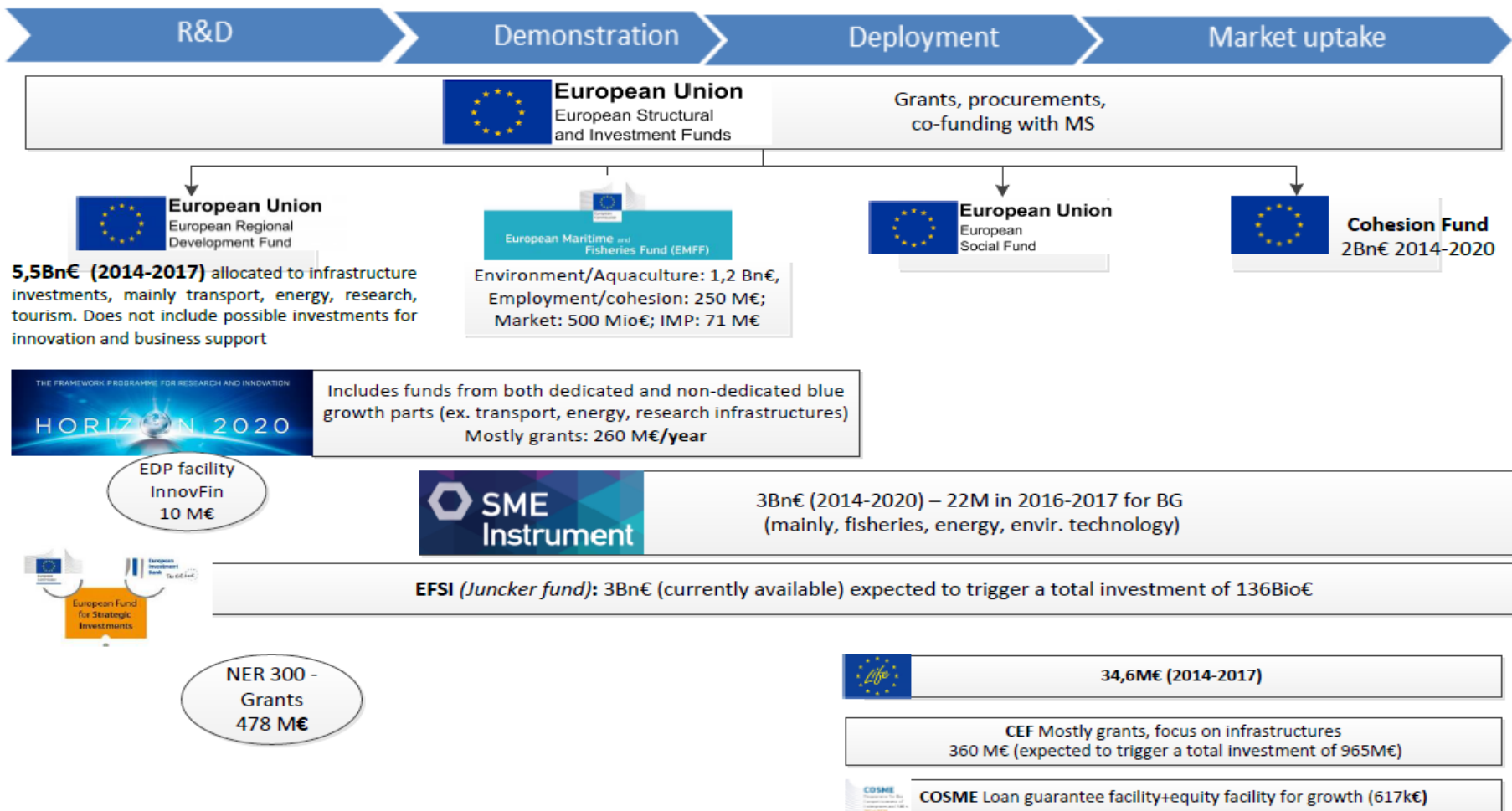
- Challenges
 - joint solutions to address common challenges
 - build common assets for entire regions
 - create growth and jobs and facilitate investment
 - bring neighbours on board
- EU Actions
 - sea-basin strategies:
 - Atlantic Ocean, the Baltic, Adriatic & Ionian Sea
 - Black Sea Initiative, North Sea Energy grid
 - blue growth in the Western Mediterranean
 - close links with Union for the Mediterranean
 - channelling financial support from the Structural Funds

Underpinning action

- Marine knowledge, and research
- Maritime Spatial Planning
- Surveillance

EU funding instruments

Main EU funding sources for the Blue growth (2014-2107)



EU funding for Blue Growth 2014-20

[estimated]

**Structural funds
(ERDF / ESF)
€ 3-10 billion
grants**

**HORIZON 2020
€ 2-3 billion
grants**

**+ EIB,
Marine KIC,
CEF,
Private Sector**

EFSI

IMP
direct
€ 290 M

**EMFF
€ 1 billion**





Stakeholders

- Dialogue
 - ❖ European Maritime Days
 - ❖ EMODNET
- Consultation
 - ❖ Blue Business and Science Forum
 - ❖ Blue Economy Awards
 - ❖ Atlas of the Seas
- Collaboration
 - ❖ Maritime Forum
 - ❖ Advisory Councils

Next steps?

- Valetta Declaration and Council conclusions
- Report on Blue Growth CoR
- Our Oceans Conference
- Ocean Partnerships (e.g. Canada, China)
- Investment and Blue Growth Financing

Moon



100% mapped

...at ~100 m resolution (NASA)
& at ~7 m resolution? (China)

Mars



100% mapped

...at ~100 m resolution &
~60% at ~20 m resolution

Earth's ocean



~~5% mapped~~

100% mapped at max ~5 km resolution
~10-15% mapped at ~100 m resolution
<0.05% mapped at 1-2 m resolution



Towards a Blue Growth Investment Platform

- Funding gaps in moving from demonstration to flagship and industrial scale
- Work on project pipeline
- Blue Growth Calls
- Blue Growth Investment Platform

The (upcoming) challenges

- Global (SDG, climate, litter)
- Jobs – growth
- Skills and ocean literacy
- Funding – from Research to ESIF and EFSI
- One common theme: sustainability and innovation

Challenges 2

- Food from the oceans
- Building with Nature
- Technology from idea to market
- Maritime Spatial Planning international
- Data from collection to the cloud

Making it work

- Close to regions and coasts
- Strategies that produce results (Vigo, Atlantic) and...
- Ideas
- On the ground impact
- Cooperation and coordination



Thank you for your attention!