

MARINE DATA: WHAT ROLE FOR EUROPE?

a vision for 2020



- why are we doing it?
- what has EU done?
- what will EU do next?



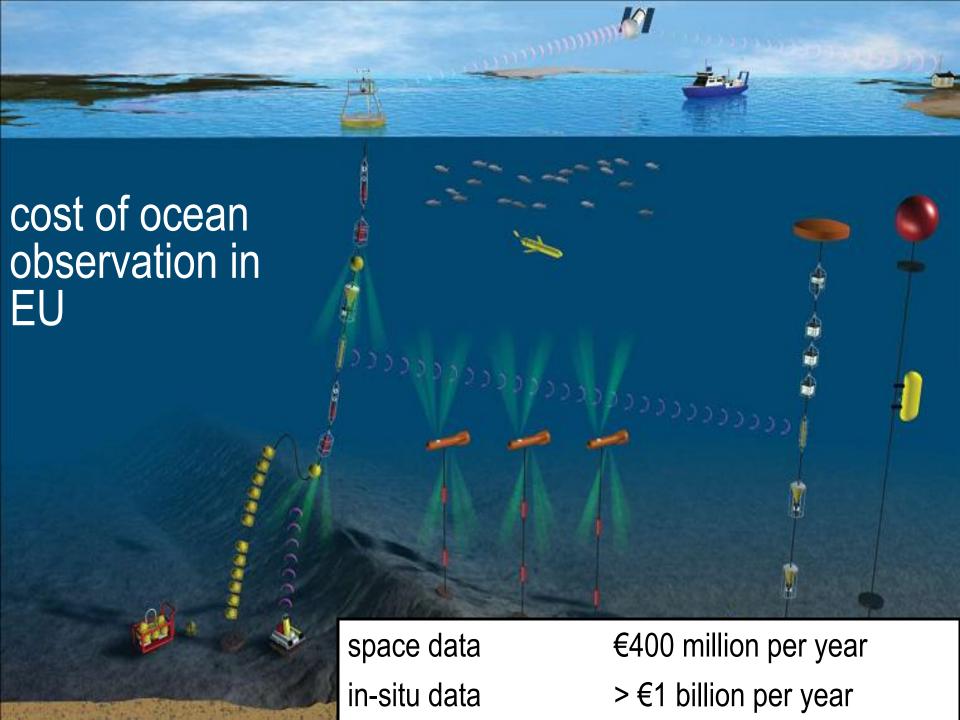
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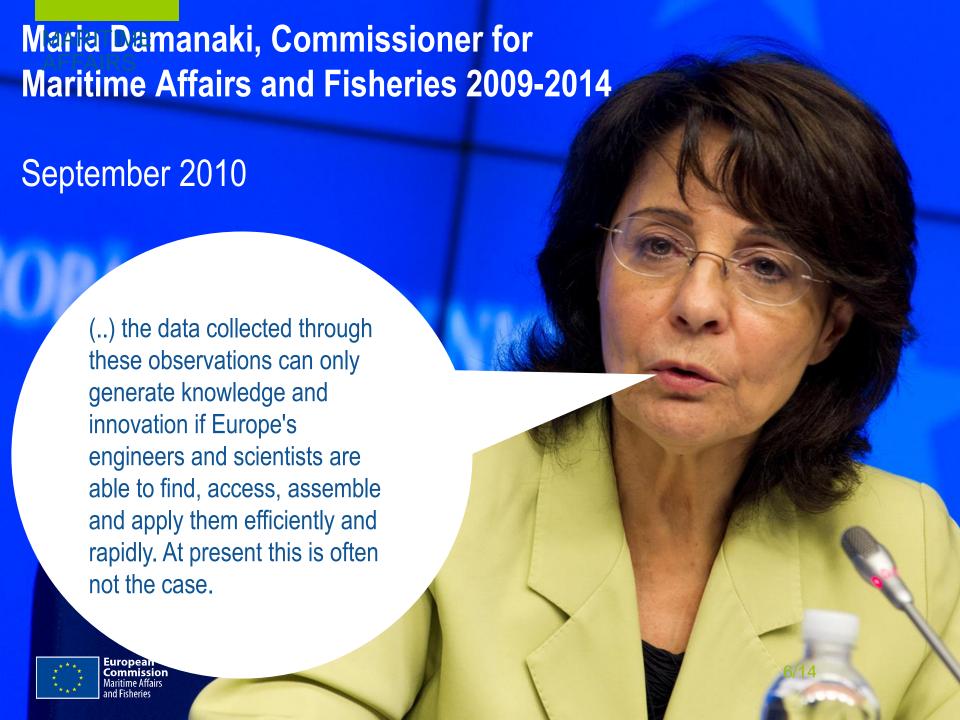
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Patching together a world view

Data sets encapsulating the behaviour of the Earth system are one of the greatest technological achievements of our age — and one of the most deserving of future investment.

There is only one Earth, with only one history, and we get only one chance to record it. Ideas not followed through can be taken up again later. A record not made is gone for good.







digital seabed map of European waters

- highest resolution possible
- topography, geology, habitats and ecosystems
- physical, chemical and biological state of the water
- human activities and their impact on the sea
- oceanographic forecasts.
- accessible, interoperable and free to use..

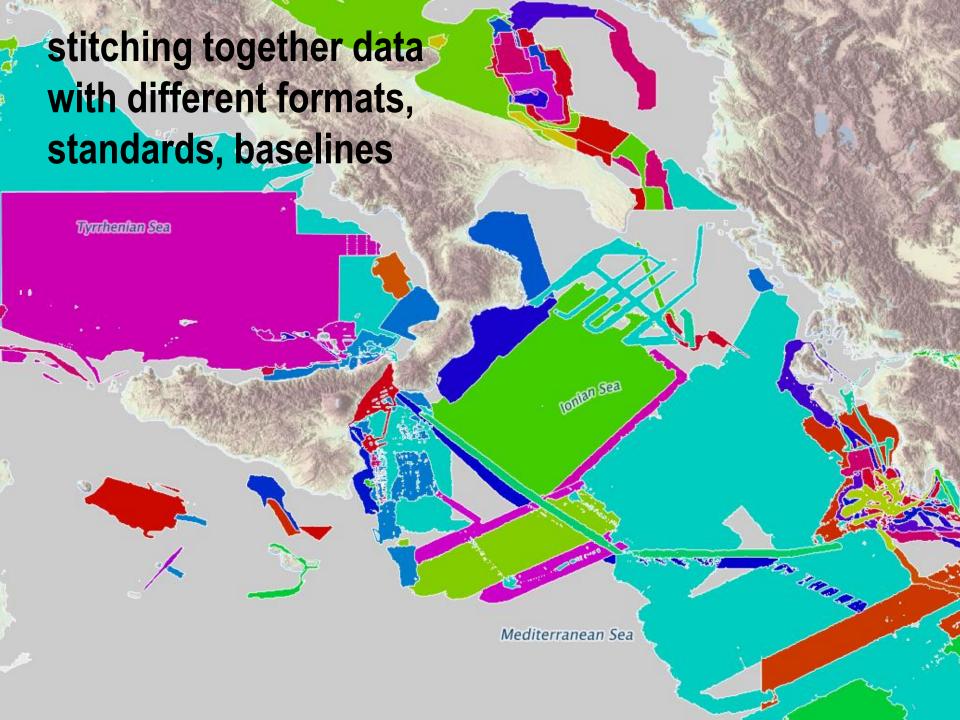


1. reduced costs for offshore activities

- no need to repeat measurement that has been made by another agency
- costs less to assemble data from different sources

2. stimulation of innovation

- more providers can offer services
- 3. reduced uncertainty in knowledge of the behaviour of the sea



to create a topographical map with 16 times better resolution than had previously been available

(when it's finished)



innovation new cage design

Irish deep sea farm project could generate 350 direct and 150 indirect jobs

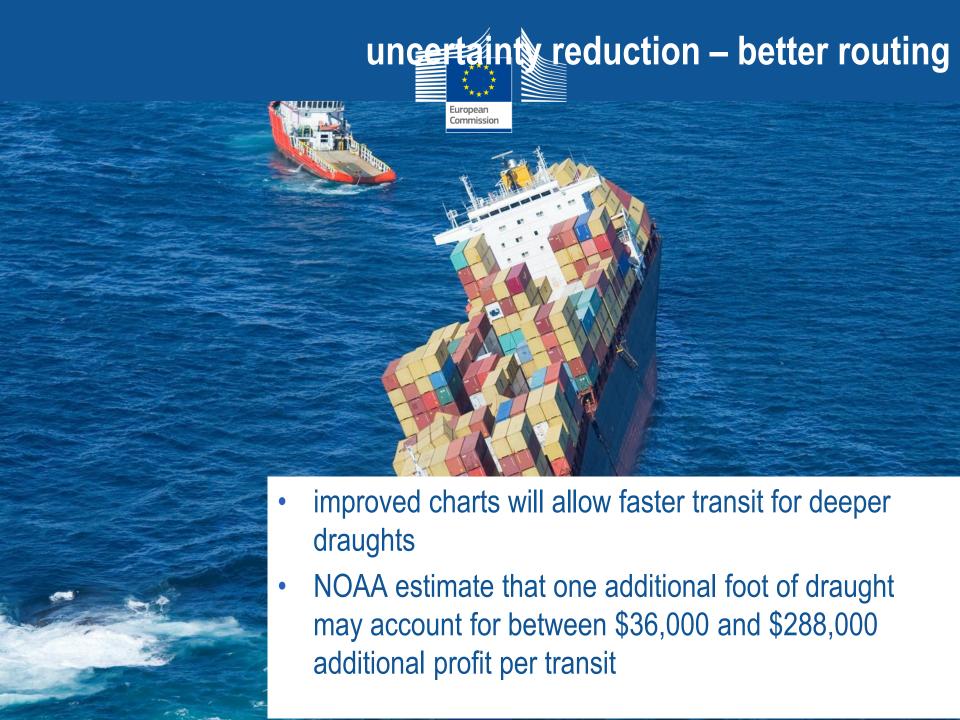


- bathymetric data water depth
- geological data sediments for foundations
- chemical data water quality
- physical data tides, waves, currents
- biological data not endanger local wildlife



- 48 cable failures occur in Europe each year
- €6.9 billion losses

- need information on
 - sediment properties for burial techniques
 - local human activity (fishing etc)
 - temperature, salinity
- etc





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EU support for marine data

		approximate annual cost € million	Delivered
Data Collection Framework	from 2004	75	length age, sex of fish, by- catch etc
Copernicus space component (for marine observation)	from 2012	150	surface temperature, ice, chlorophyl etc
Copernicus marine service	from 2012	20	ocean forecasts
EMODnet	from 2012	10	bathymetry, geology, habitats, physics, chemistry, biology, human activity

+ data collected in research programmes (EU spends ≈ €350 million per year on marine and maritime research)



are data fit for use?

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The EMODnet MedSea Checkpoint evaluates the quality of the data from monitoring systems in terms of their accessibility, availability, multiple-use, reliability, time consistency, space consistency, as well as the planning of teadvancements, new accessibility, new assembly protocols and observational required to meet Challenges described below.

- Mediterranean and North Sea
 - at half-way point
- Arctic, Atlantic, Baltic, Black Sea
 - beginning

Marine protected areas

do we have coherent set of marine protected areas?







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- more data delivery through machine-to machine connections
- better access to fisheries data
 - proposal for revised Data Collection Framework in preparation
- better stewardship of data at end of projects
 - research, impact assessment for offshore facilities etc
 - data ingestion tender launched
- more structured input from users
 - user group to be set up

