



European Atlas of the Seas

Marine and Maritime Information for Science and Society

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The World of *Claudius Ptolemaeus*

Ptolemaic revival by Renaissance humanists



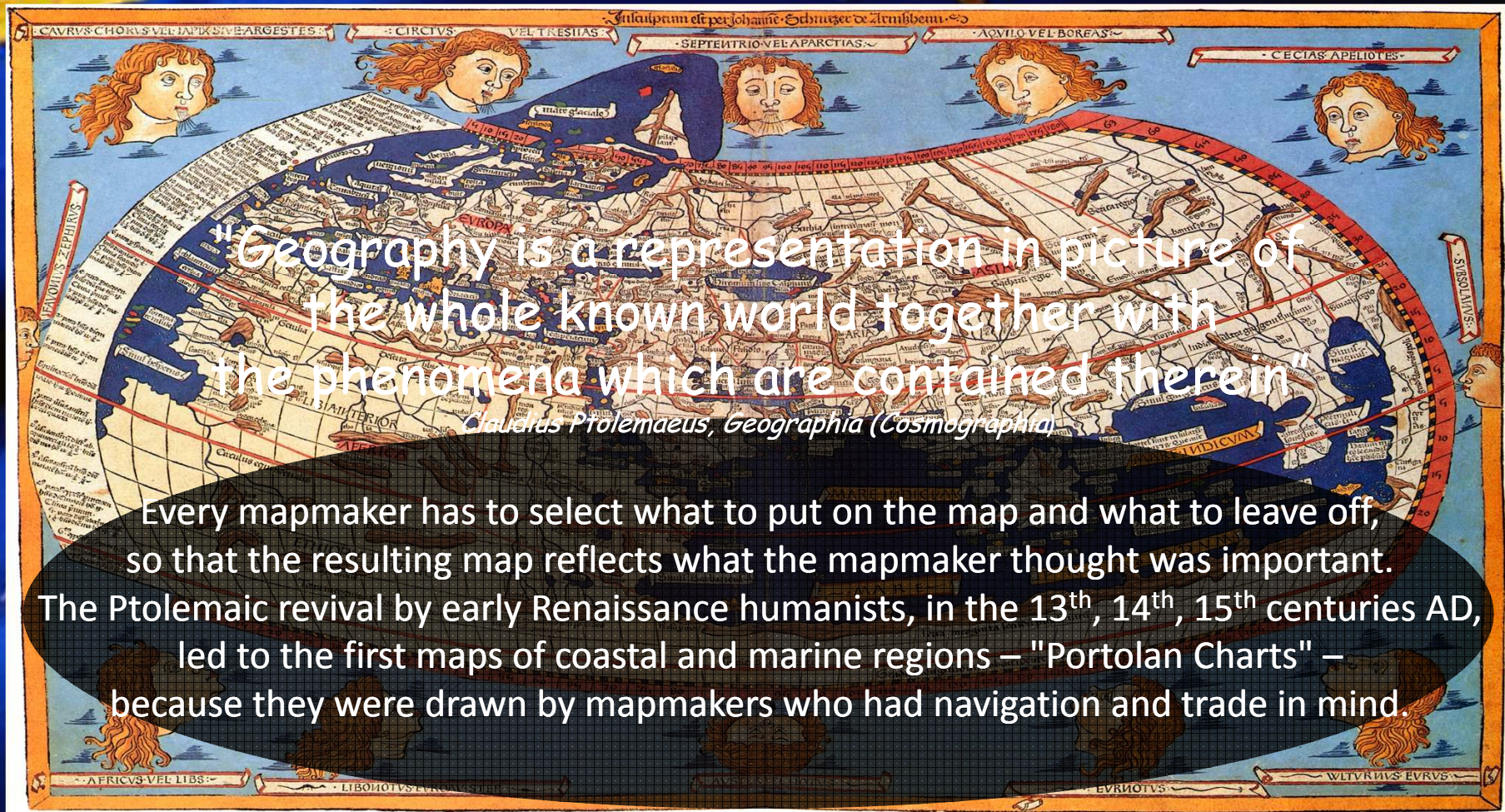
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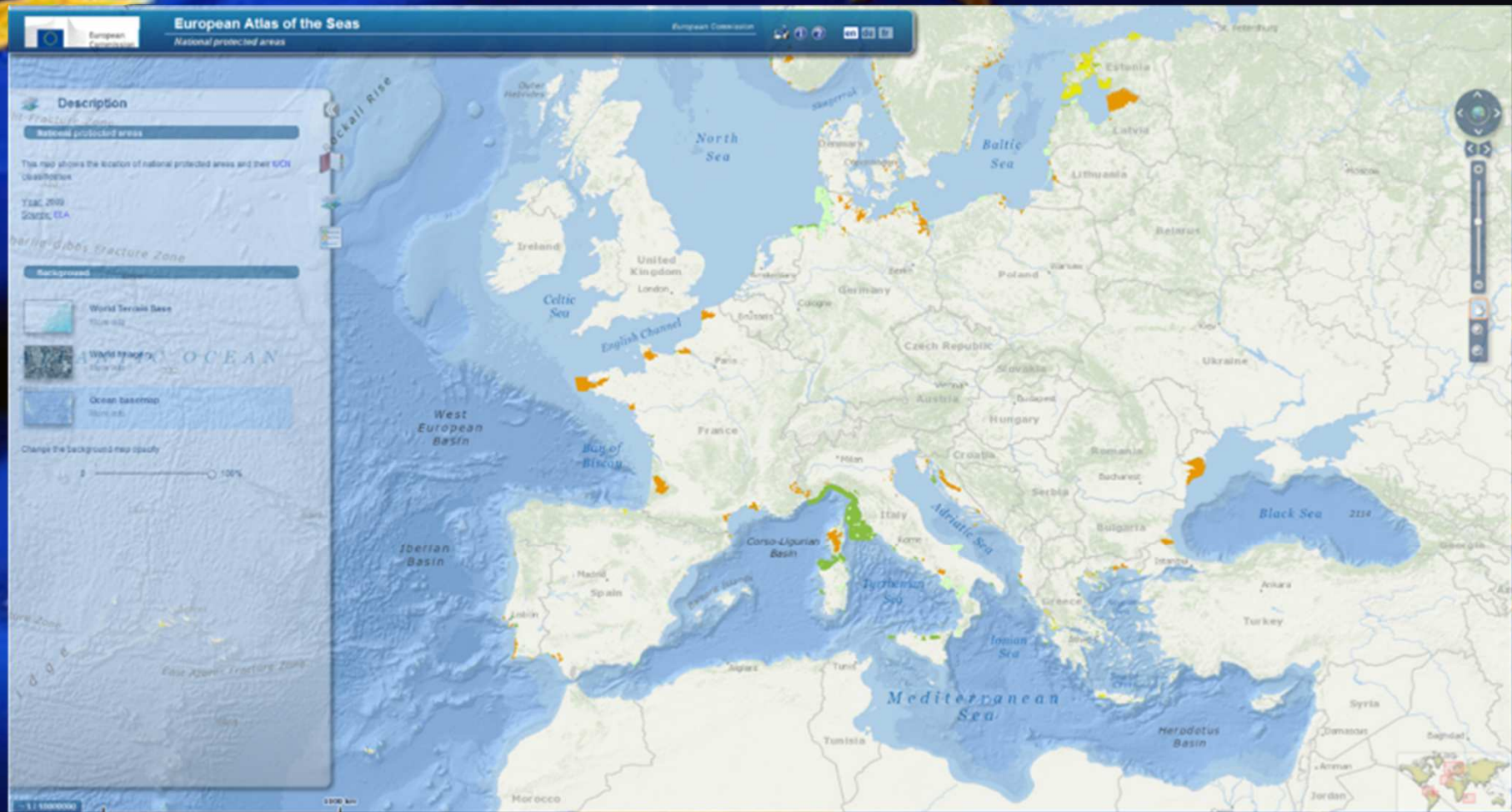
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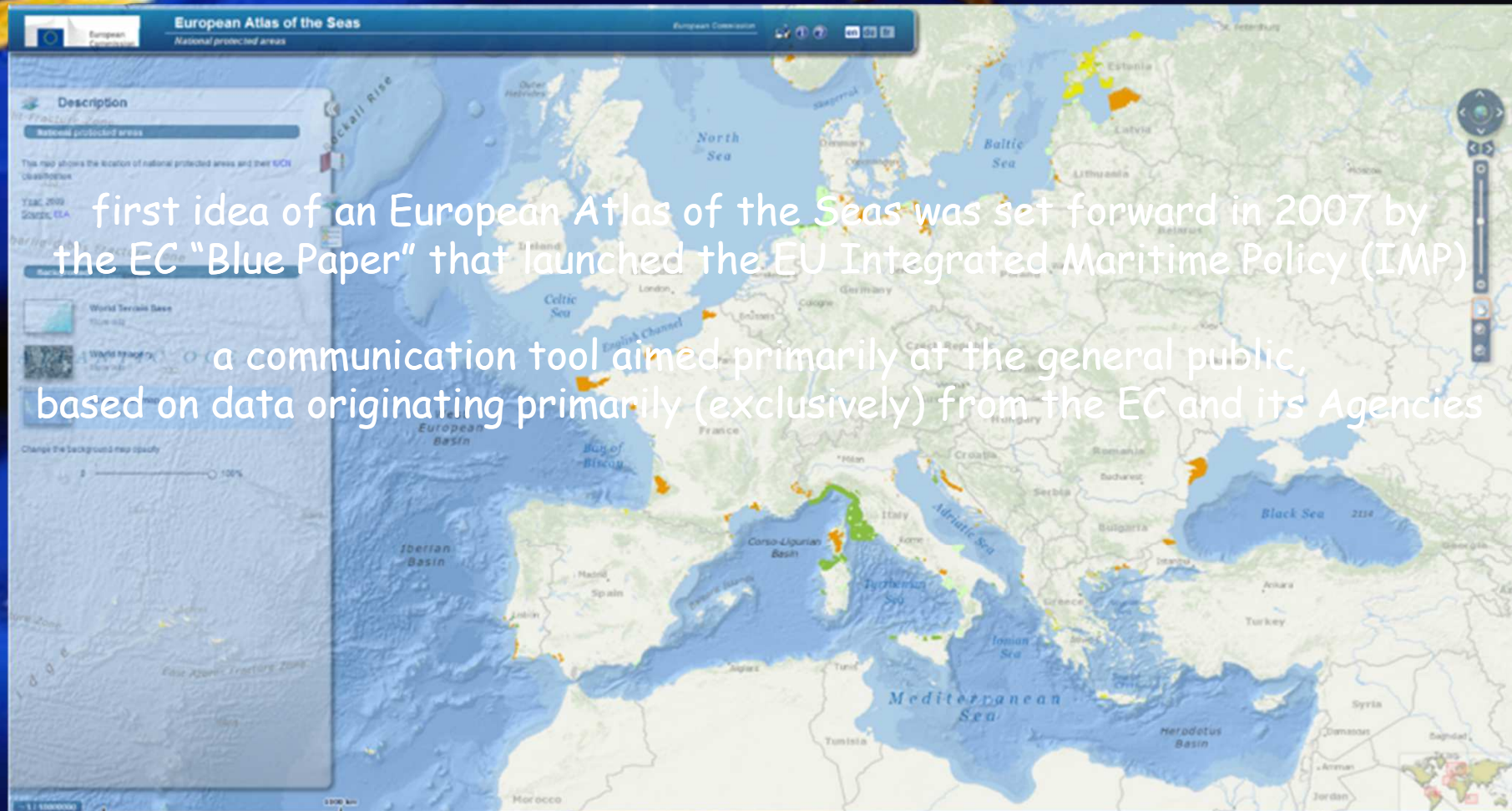




European Atlas of the Seas

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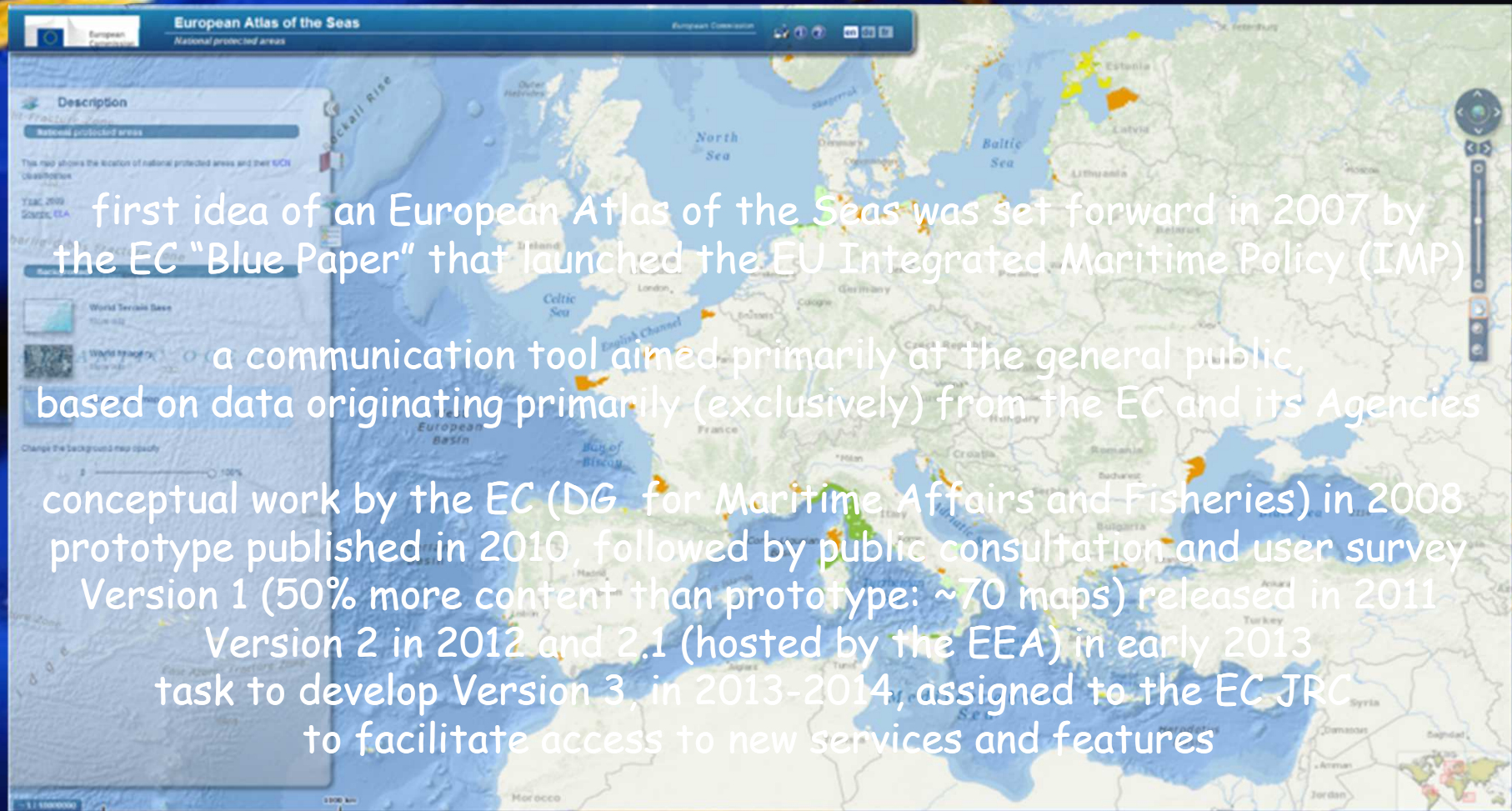


first idea of an European Atlas of the Seas was set forward in 2007 by the EC "Blue Paper" that launched the EU Integrated Maritime Policy (IMP) a communication tool aimed primarily at the general public, based on data originating primarily (exclusively) from the EC and its Agencies

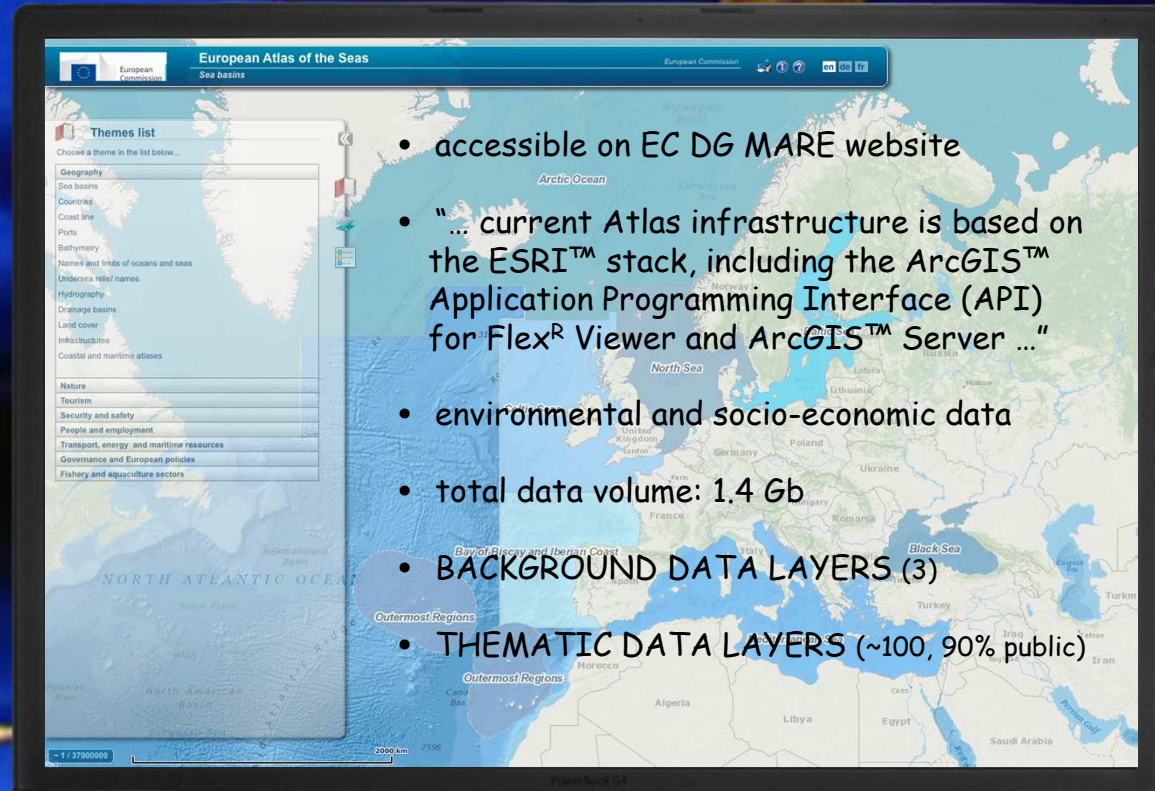


European Atlas of the Seas

Joint Research Centre, European Commission



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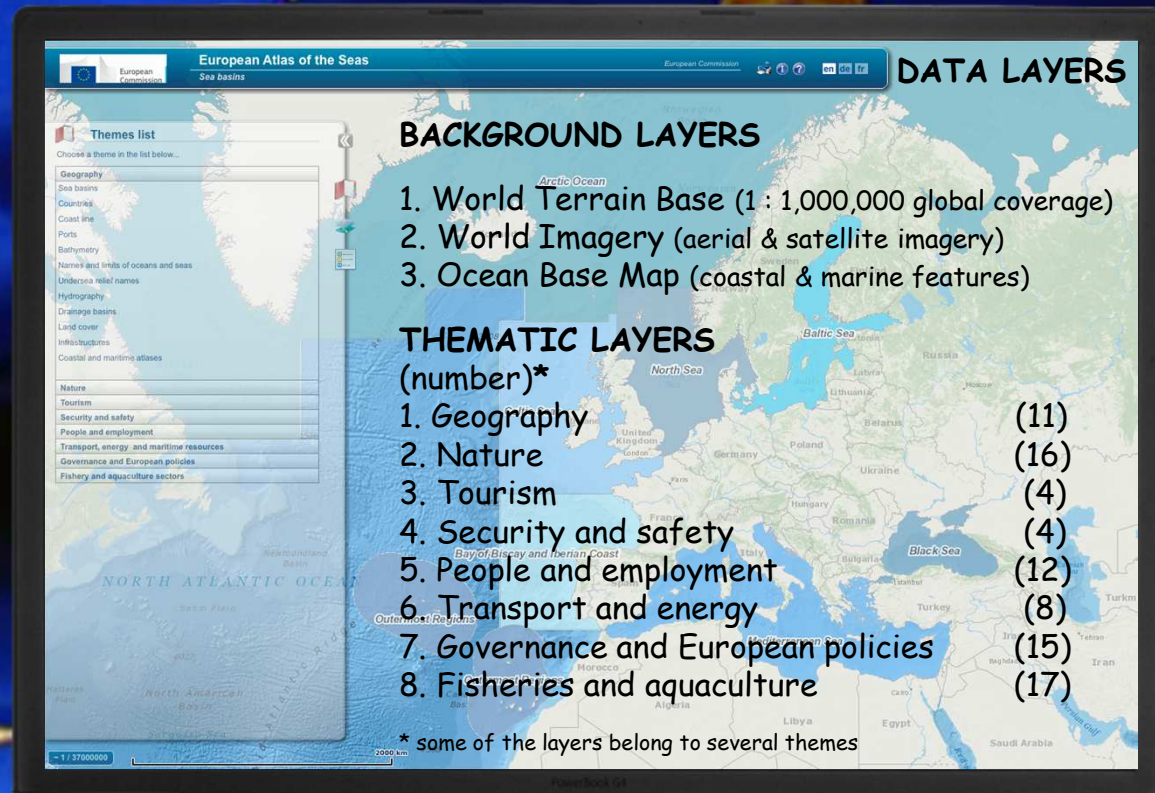


European Atlas of the Seas
Sea basins

Themes list
Choose a theme in the list below...

- Geography
 - Sea basins
 - Countries
 - Coast line
 - Ports
 - Bathymetry
 - Names and limits of oceans and seas
 - Undersea relief names
- Hydrography
 - Drainage basins
 - Land cover
 - Infrastructures
 - Coastal and maritime atlasses
- Nature
 - Tourism
 - Security and safety
 - People and employment
 - Transport, energy and maritime resources
 - Governance and European policies
 - Fishery and aquaculture sectors

- accessible on EC DG MARE website
- "... current Atlas infrastructure is based on the ESRI™ stack, including the ArcGIS™ Application Programming Interface (API) for Flex® Viewer and ArcGIS™ Server ..."
- environmental and socio-economic data
- total data volume: 1.4 Gb
- **BACKGROUND DATA LAYERS (3)**
- **THEMATIC DATA LAYERS (~100, 90% public)**



European Atlas of the Seas
Sea basins

DATA LAYERS

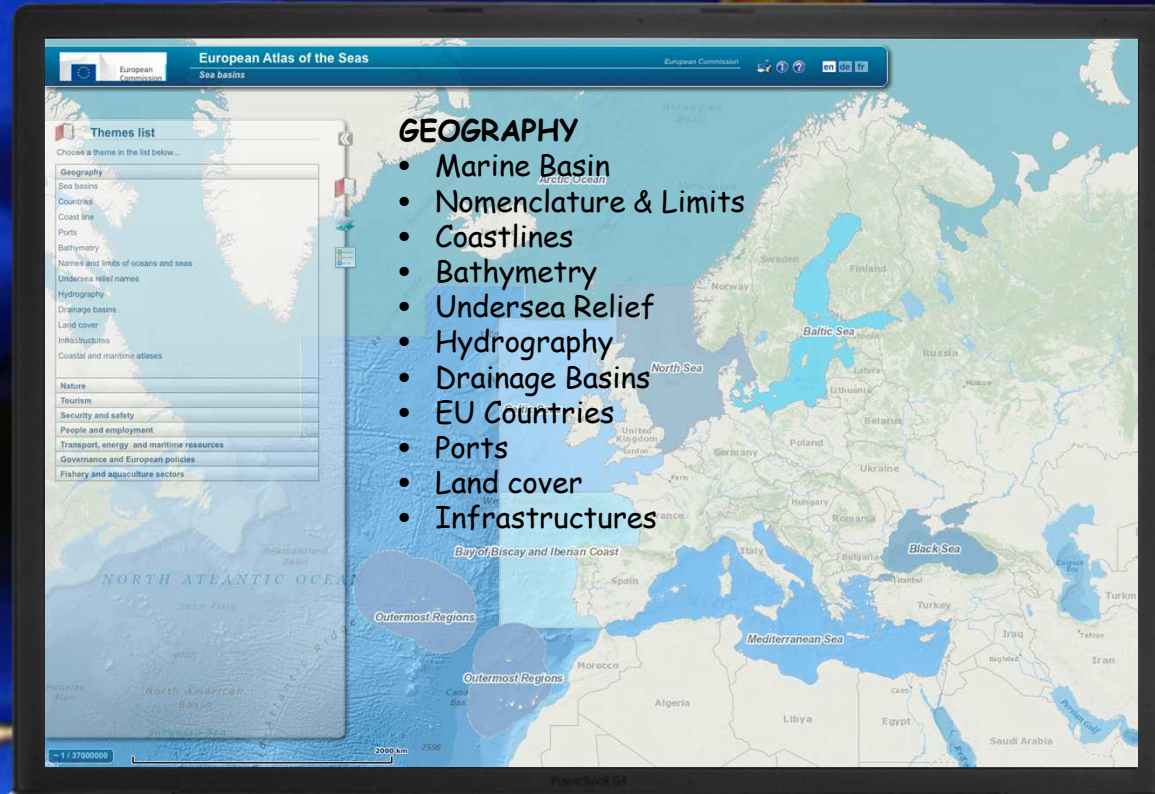
BACKGROUND LAYERS

1. World Terrain Base (1 : 1,000,000 global coverage)
2. World Imagery (aerial & satellite imagery)
3. Ocean Base Map (coastal & marine features)

**THEMATIC LAYERS
(number)***

1. Geography	(11)
2. Nature	(16)
3. Tourism	(4)
4. Security and safety	(4)
5. People and employment	(12)
6. Transport and energy	(8)
7. Governance and European policies	(15)
8. Fisheries and aquaculture	(17)

* some of the layers belong to several themes





The screenshot shows the 'European Atlas of the Seas' website interface. On the left, there is a 'Themes list' sidebar with a search bar and a scrollable list of categories. The 'Nature' category is highlighted. The main content area displays a map of Europe and the Mediterranean region. Overlaid on the map is a list of themes under the heading 'NATURE'. The list includes various marine and coastal topics, with 'SeaDataNet Climatologies' highlighted in red.

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Sea basins

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NATURE

- Sea Surface Temperature
- Average Wind Speed and Direction
- Significant Wave Height and Direction
- Mean Tidal Amplitude
- Sea Level Change
- Chlorophyll Concentration
- Status of Fish Stocks
- Natura 2000 Sites
- National Protected Areas
- Marine Protected Areas
- Coastal Bathing Areas
- Coastal Geology / Erosion
- Coastal Defence Works
- International Conventions
- Large Marine Ecosystems
- **SeaDataNet Climatologies**



The screenshot shows the 'European Atlas of the Seas' website interface. On the left, there is a 'Themes list' sidebar with a search bar and a list of categories including Geography, Nature, and Tourism. The main content area displays a map of Europe with a semi-transparent text box overlaid on it. The text box lists various themes and their associated topics.

TOURISM

- Public Aquariums
- Maritime Museums
- Number of Beds per km²

SECURITY & SAFETY

- Pollution Response Vessels
- Accident Density
- Major Oil Spill Incidents

PEOPLE & EMPLOYMENT

- various (e.g. population, employment, consumption)

TRANSPORT & ENERGY

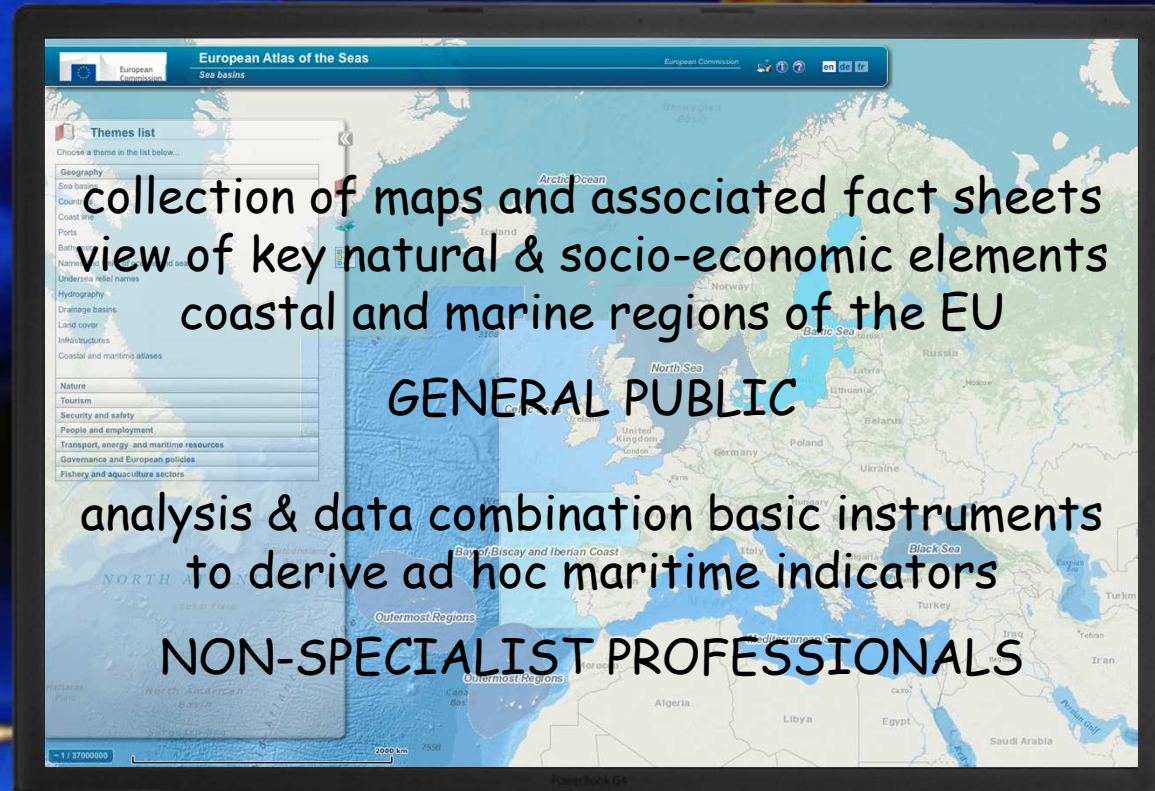
- Maritime Passenger Transport
- Maritime Goods Transport
- Trans-European Electricity / Gas

GOVERNANCE & EU POLICIES

- various (e.g. EU MS, regional activity councils)

FISHERIES & AQUACULTURE

- various (e.g. stocks, quotas, catches, processing)



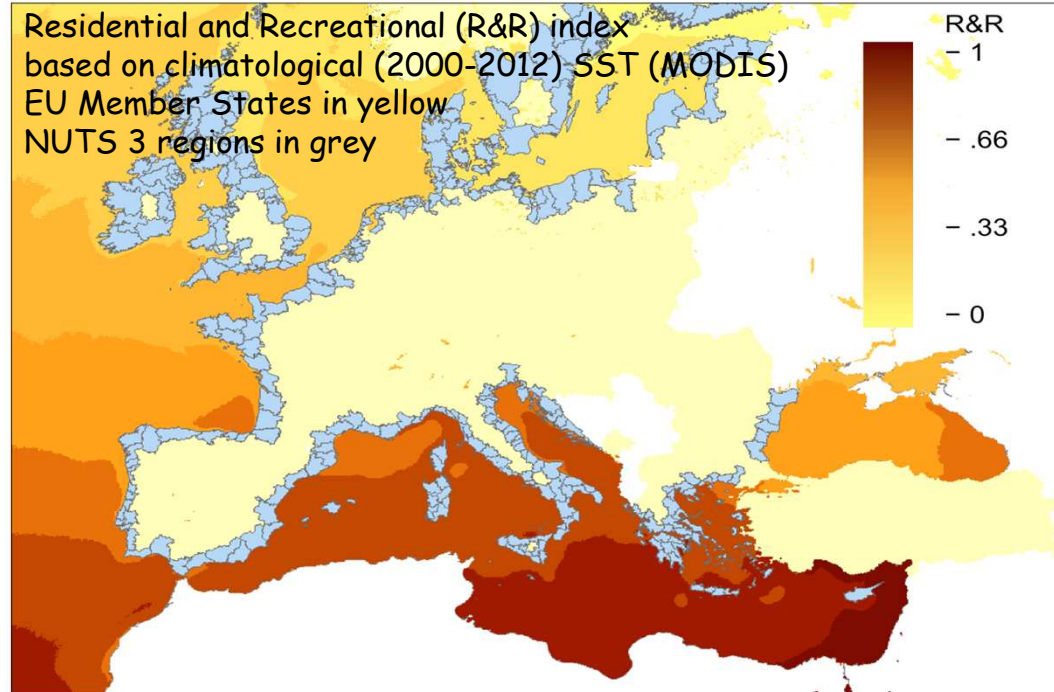
collection of maps and associated fact sheets
view of key natural & socio-economic elements
coastal and marine regions of the EU

GENERAL PUBLIC

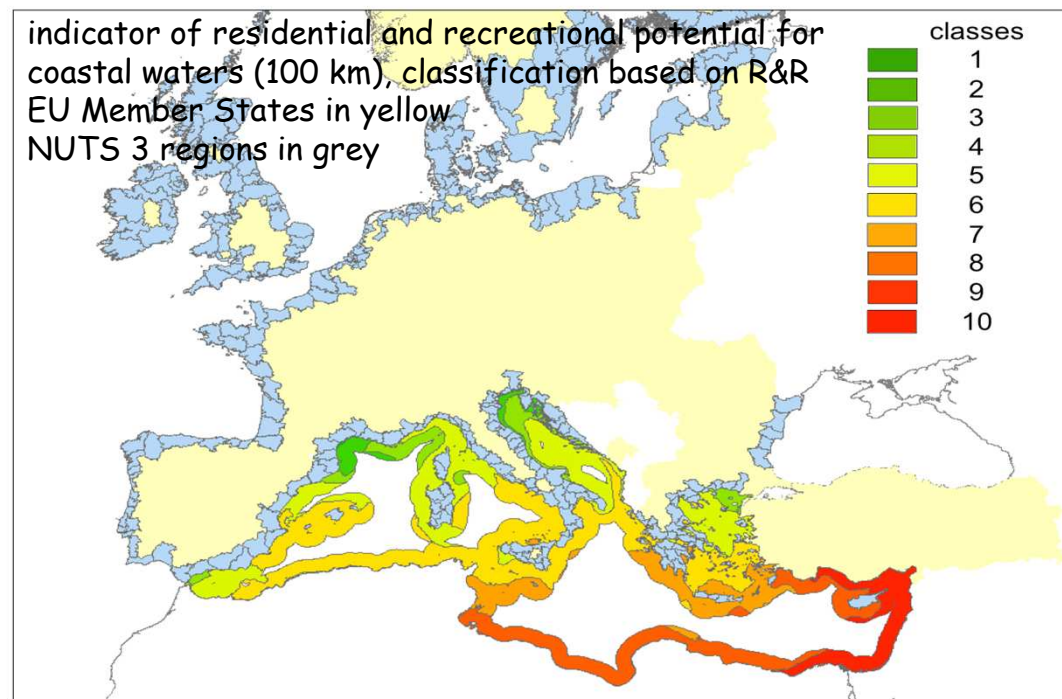
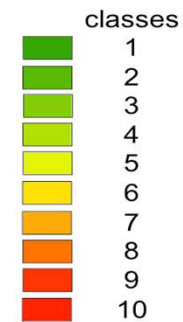
analysis & data combination basic instruments
to derive ad hoc maritime indicators

NON-SPECIALIST PROFESSIONALS

Residential and Recreational (R&R) index
based on climatological (2000-2012) SST (MODIS)
EU Member States in yellow
NUTS 3 regions in grey



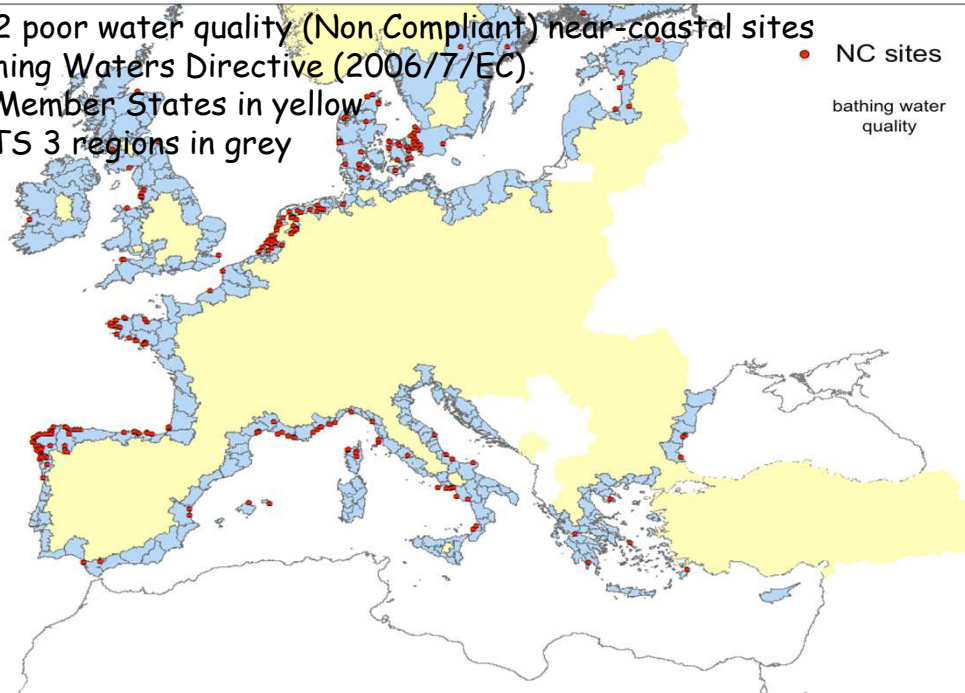
indicator of residential and recreational potential for coastal waters (100 km), classification based on R&R
EU Member States in yellow
NUTS 3 regions in grey

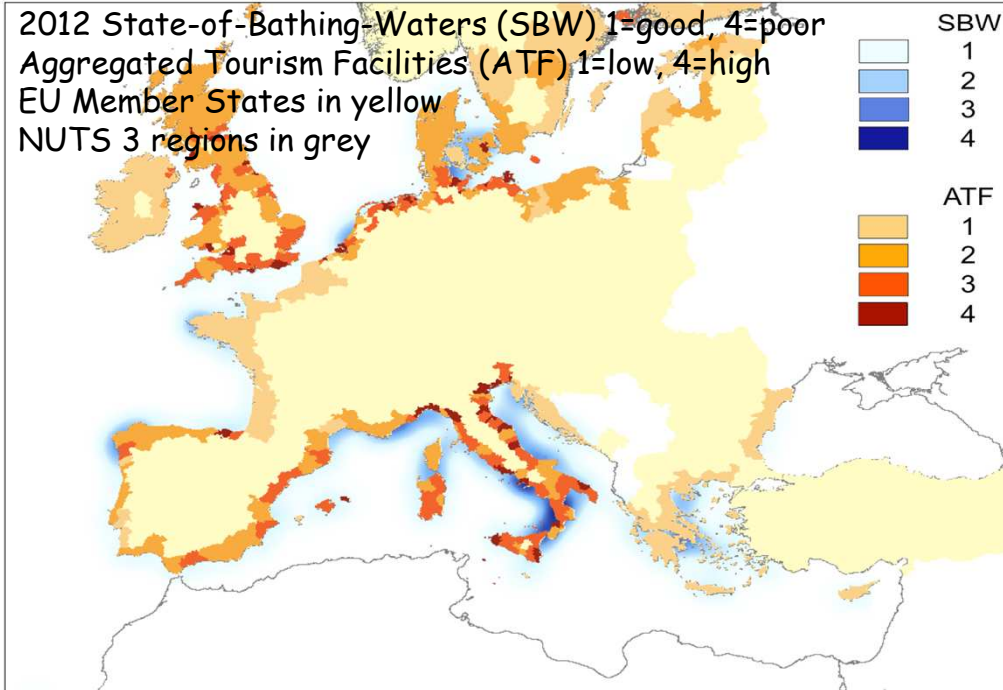


2012 poor water quality (Non-Compliant) near-coastal sites
Bathing Waters Directive (2006/7/EC).
EU Member States in yellow
NUTS 3 regions in grey

• NC sites

bathing water
quality





future Atlas of the Seas

...
general public AND practitioners

- interfaced to a number of databases
- EC in-house archives and other sources
- new map services and analysis tools
- advanced data merging capabilities
- from basic information to indicators