



The European water information system (WISE)

Regional workshop on National Water Information Systems and EMWIS

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EEA work linkages around the Mediterranean

- EEA workprogram with Mediterranean member countries
- EU WFD based reporting
- Mediterranean water framework directive / EU water initiative joint process (Med EUWI / WFD JP)
- UNEP/Mediterranean action plan process

EEA workprogramme – EIONET water reporting

- Voluntary reporting based on year-long networking and partnerships
- Water quality
- Rivers
- Lakes
- Groundwater

Beginning:

- Water quantity

EU WFD reporting

- Based on legal acts under the water framework directive reporting:
- Article 3: authorities, river basin districts ...
- Article 5: water bodies ...

Beginning:

- Art 8: monitoring networks and stations ...

Med EUWI / WFD JP (2nd phase)

- Focus on recommendations identified in phase 1
e.g.
 - Groundwater management
 - Waste water reuse
 - Water scarcity
- Identify pilot basins
- Encourage WFD exchange of information

UNEP MAP

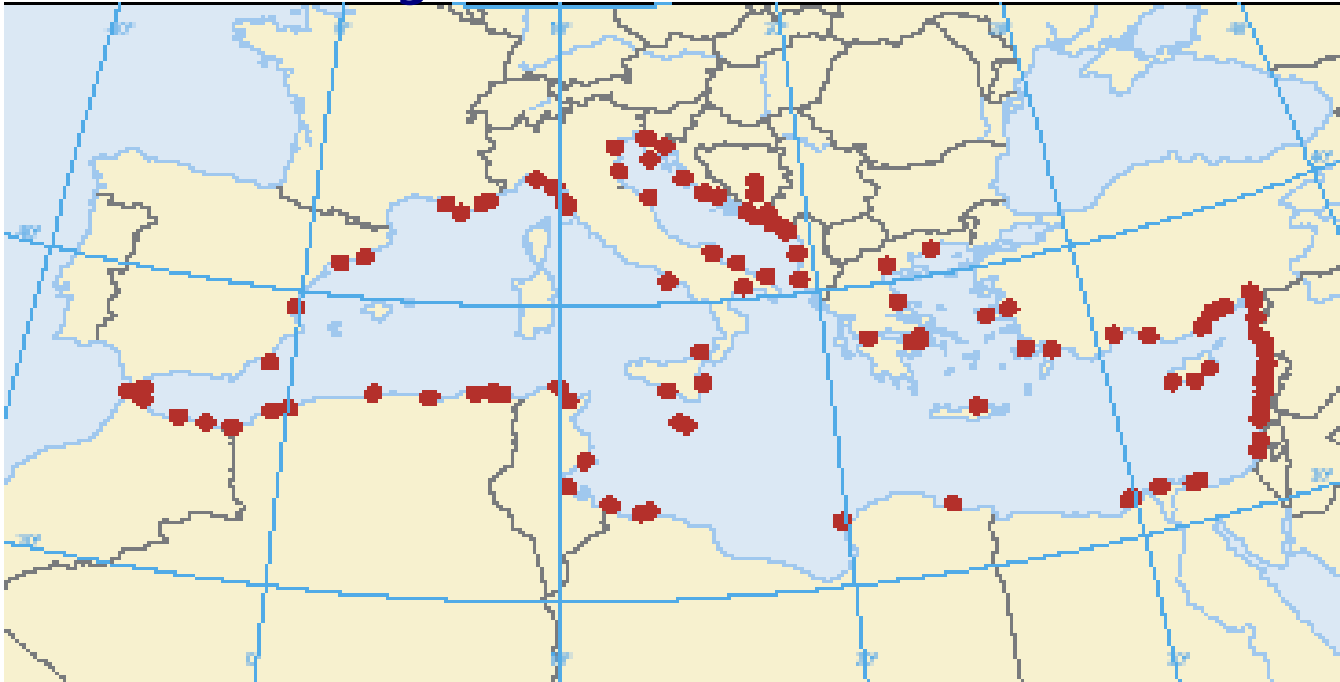
- Build integrated and harmonised MAP reporting system
- Develop indicators to measure implementation of the convention

Example: What the latest EEA-UNEP/MAP Mediterranean report provides

- It is not an overall state of the Mediterranean marine environment report
- It deals with pressures caused through industrial emissions, solid waste and urban wastewater
- It highlights emerging issues of main concern to the sustainable ecosystem approach:
 - ✓ Biological invasions
 - ✓ Ecological quality status
 - ✓ Unsustainable fisheries & aquaculture
 - ✓ Harmful algal blooms
 - ✓ Natural hazards



131 'pollution hot spots' have been identified by the countries



- 26 % are urban, 18 % industrial and 56 % mixed
- 59 sensitive areas (marine areas under threat) have also been identified

WISE implementation 2005 - 2010

- Initially a shared development activity among DG Env, JRC, Eurostat and EEA
- Integrating member states by 2010
- Common implementation plan
- Shared architecture and system
- Stepwise integration of data
- Combine legal and voluntary reporting
- Build partnerships beyond EU bodies and memberstates

Common system design and harmonisation around WISE

- Agreements on system architecture
 - Data node synchronisation (JRC lead)
 - Spatial data synchronisation (EEA lead)
- Common data model, coding standards and reporting system
- WISE GIS guidance (Eurostat lead)
- Steered by WISE Technical Group

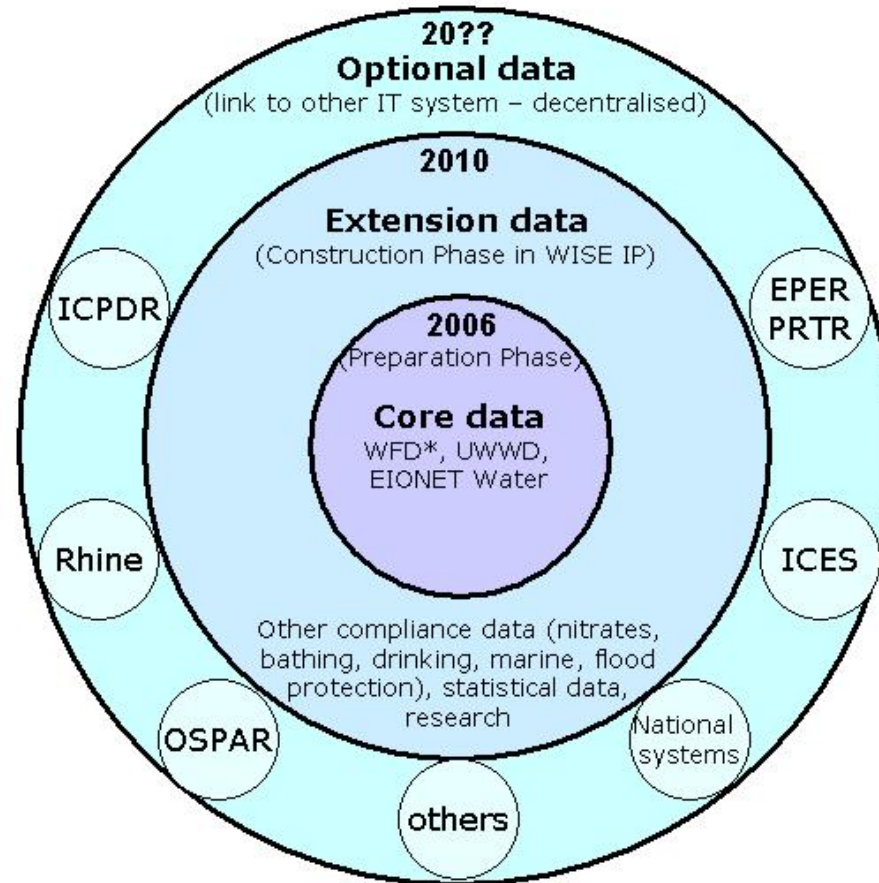
WISE public website

- Public interface to water related information
- Providing single gateway to European datasets (spatial and non-spatial) with water related content
- WISE map viewer is key part of the service
- Portal and other services tbd.
- Target Group
 - Experts (EU, Member countries)
 - Informed Public

Functions behind the WISE public viewer

- Visualising local data from
 - Data bases (tabular data)
 - Map services (spatial data)
- Exchanging distributed data through
 - Data synchronisation/mirroring (XML files, Shape files)
 - Web mapping services (spatial data)

WISE integration circles



* includes all WFD compliance data - Art. 3, 5, 8, 13 and intercalibration

Data in the WISE public viewer

- Europe-wide background maps and datasets
 - CORINE Landcover
 - IMAGE 2000
 - Digital elevation model
 - CCM 1 / 2
 - TELEATLAS water layers (for reference only)
- Europe-wide SoE data
 - EIONET Rivers, Lakes, Groundwater

Data in the WISE public viewer

- WfD related data
 - Art3 data
 - Intercalibration data
 - Selected/available Art5 data
- WfD data with high integration needs
 - Selected data from the UWWT database
 - Selected data on bathing water quality



Functions for users of the WISE public viewer

- Map based
 - Dynamic viewing, panning, zooming, selection of thematic layers
- Map and dataset based
 - Pre-defined expert queries combining datasets and showing tabular and mapping results
- Factual/textual information
 - Displayed for selected thematic layers

PLUS

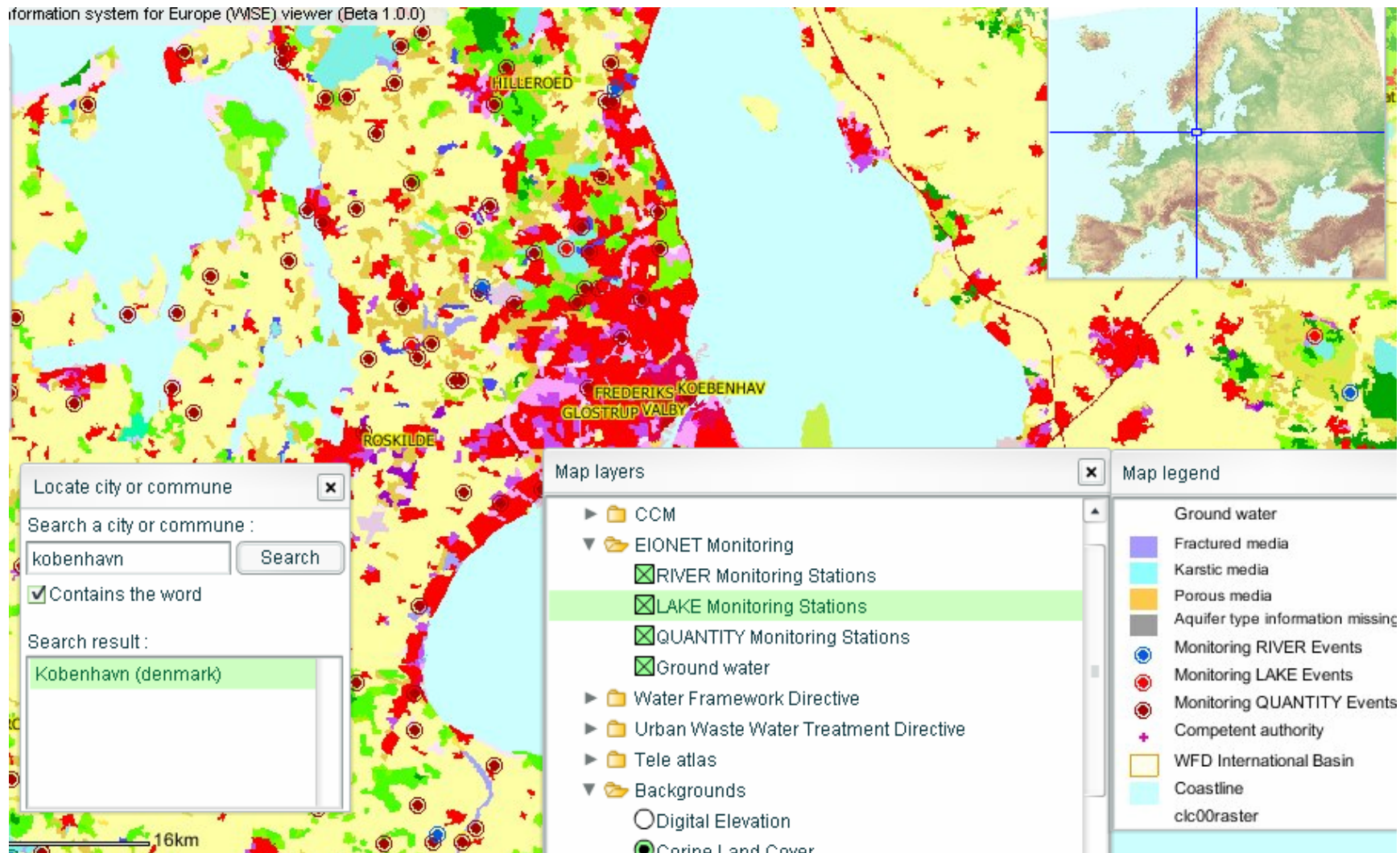
- General information and portal functions related to WfD and WISE



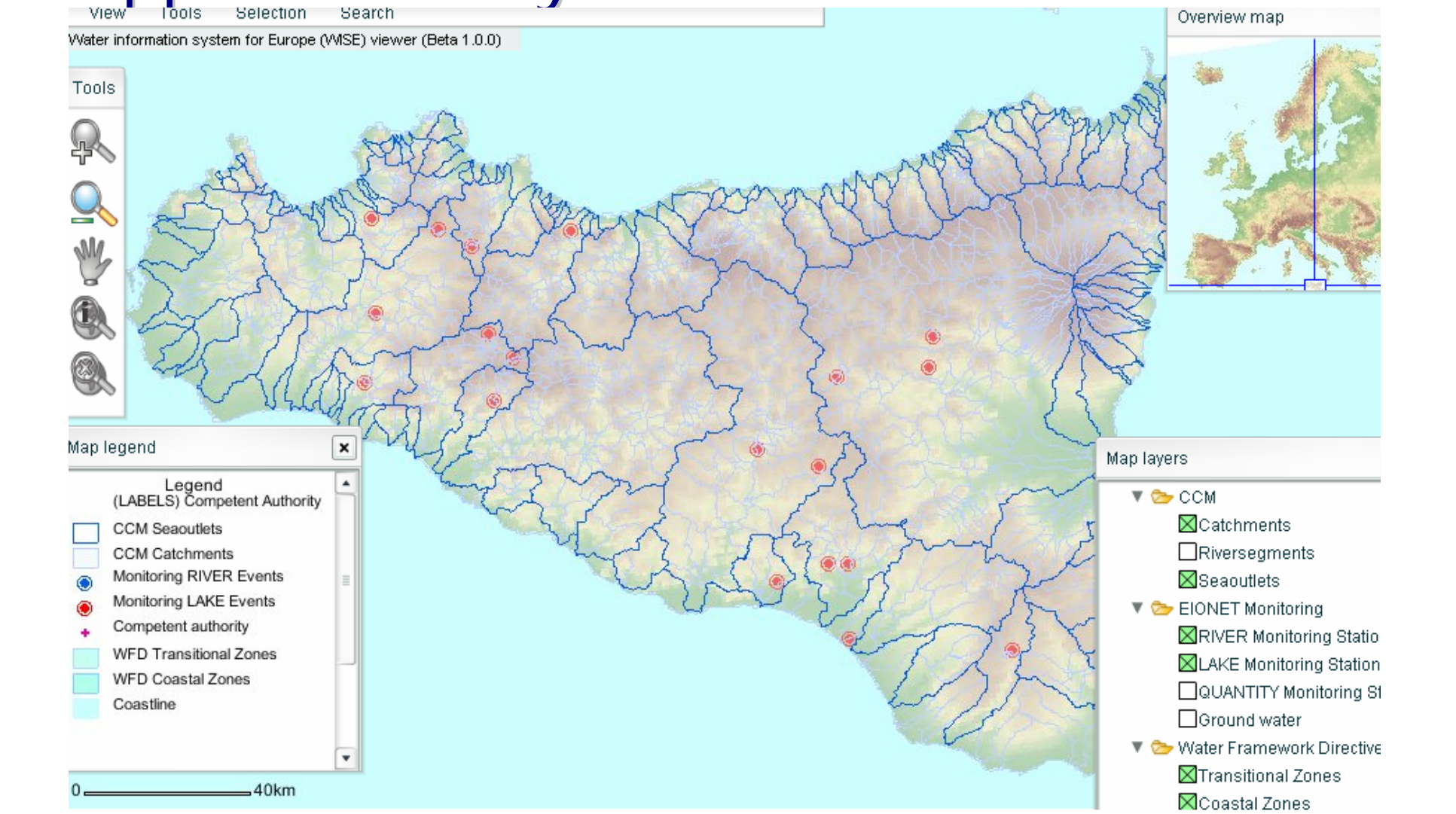
Some examples

- Showing some maps and spatial data and basic functions

Searching for Copenhagen and showing EIONET water stations and classified land use



CCM, WfD and EIONET water information mapped on Sicily



Selecting and querying of EIONET water station data around Hull (Northern England)

Select your result...

What result would you like to receive from the river monitoring stations. Currently you have selected 4 stations

Show database fields

- Mean value by monitoring stations
- Mean value by International RBD
- Mean value by CCM Catchment

Mean, max and min values of determinants

Choose a determinant from the list

BOD5

Station_ID	Year	Mean	Maximum	Minimum
GB_RV_026	2002	2.20000000	8.10000000	0.30000000
GB_RV_026	2002	1.30000000	3.00000000	0.30000000
GB_RV_029	2002	1.60000000	3.30000000	0.50000000

Access under <http://dataservice.eea.eu.int/wise>



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WISE VIEWER
Prototype - 2005 VERSION



Viewer Options

WISE viewer December 2005 (Decided data)

The WISE viewer is an early attempt to bring disparate water related data together. This prototype viewer demonstrate some ideas and technologies that will be available in the final viewer. The purpose of the current viewer is to open discussions for future developments of the WISE viewer.

[Click HERE to access the viewer.](#)

