

Indian-European Water Partnership

Workshop on RBM Planning and Governance, New Delhi 14-15 June, 2016

Data collection, sharing, processing and dissemination for RBM purposes

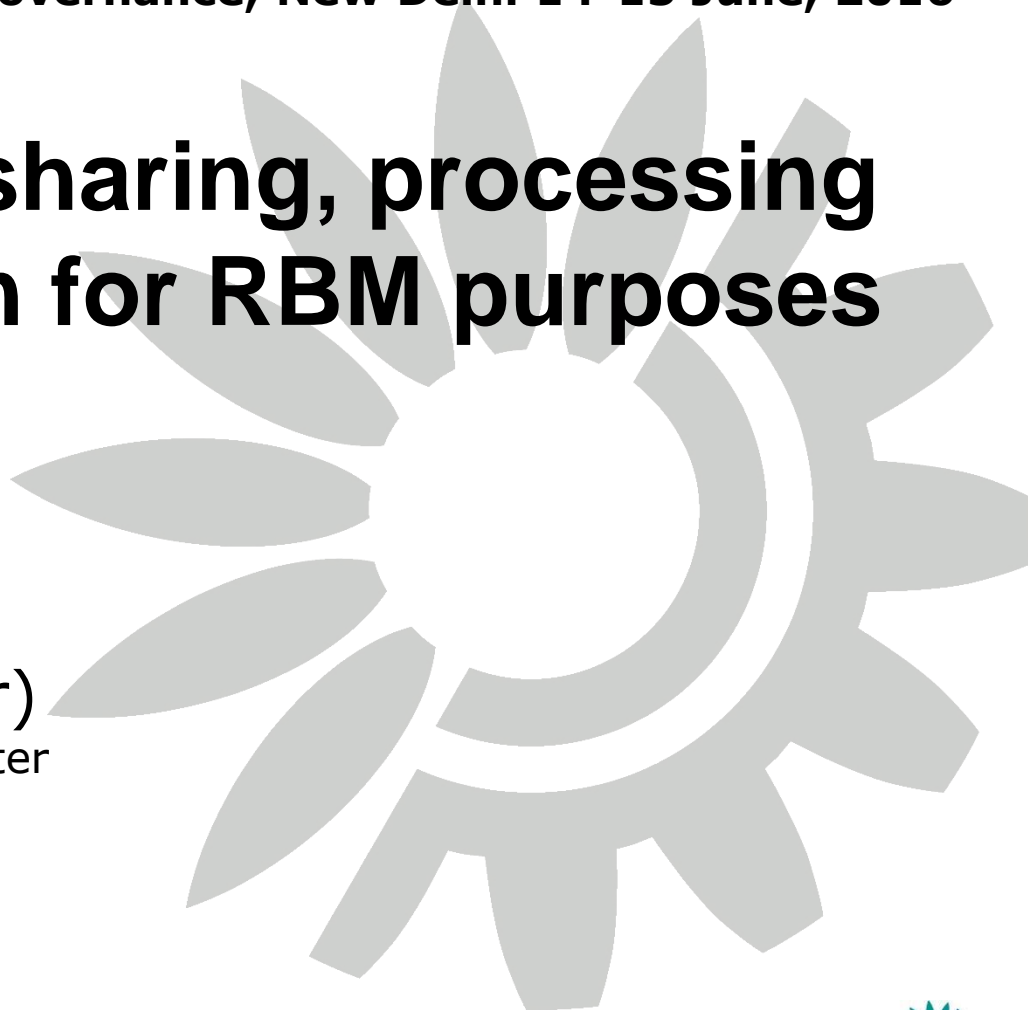
Peter Kristensen

EEA – Project Manager - Water

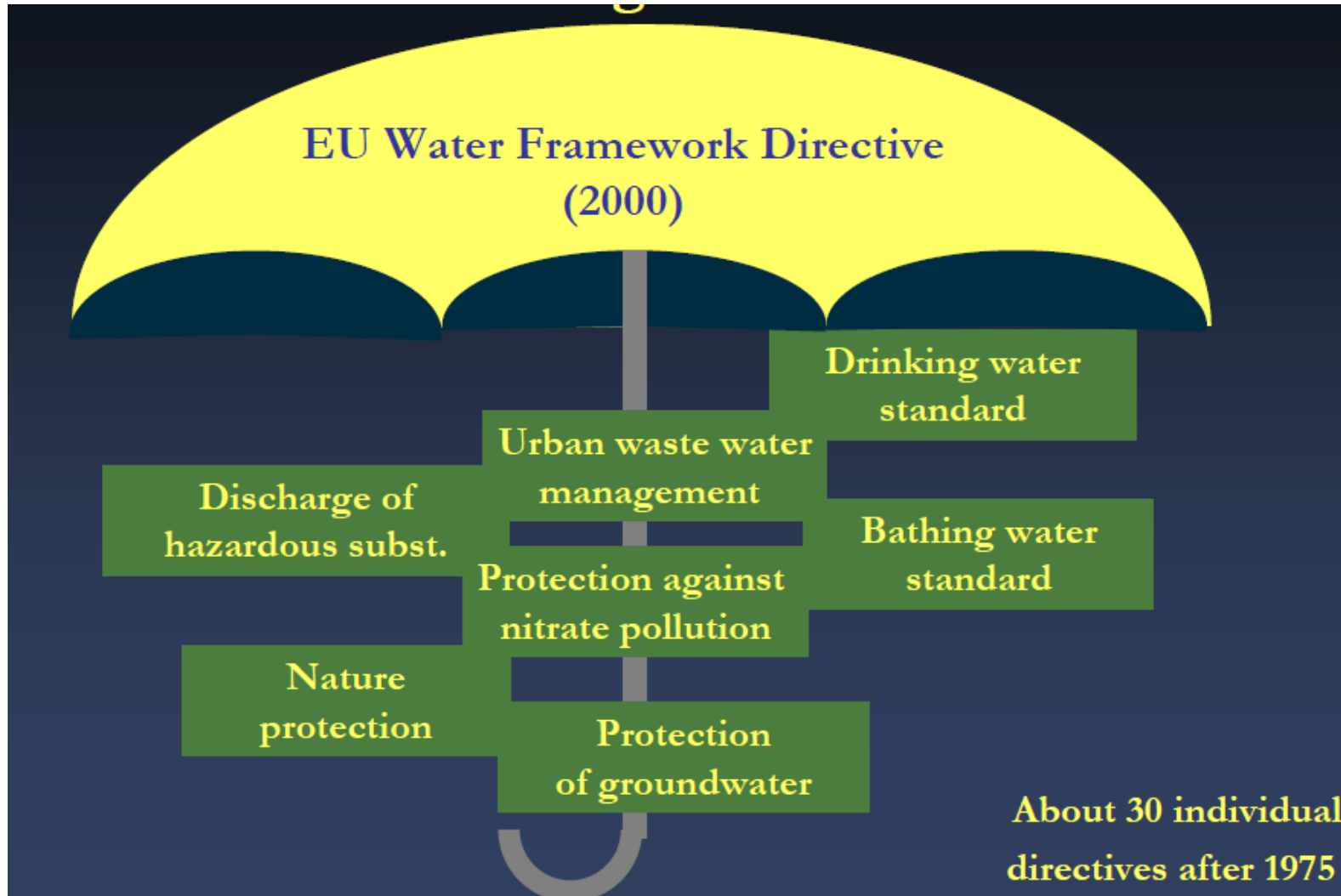
&

Bo N Jacobsen (presenter)

EEA – Project Manager emeritus - Water



EU water policies



Easy, free, public on-line access to updated EU water legislation

About this site | Contact | Sitemap | Search | Legal notice | Cookies | English (en)



ENVIRONMENT

[Link](#)

European Commission > Environment >

Home About us Policies Funding Legal compliance News & outreach

- Water
- Blueprint
- River Basin Management
- Flood Risk Management
- Water Scarcity and Droughts
- Drinking Water
- Bathing Water
- Emissions and Water Reuse
- Adaptation to Global Change
- Conferences and Initiatives
- Water Eurobarometer

Feedback
If you have any questions about European water policy or if you have any ideas on how to improve this site, please send us an email to the "Water Mailbox" of the Environment Directorate-General. This website is, so far, only available in English.

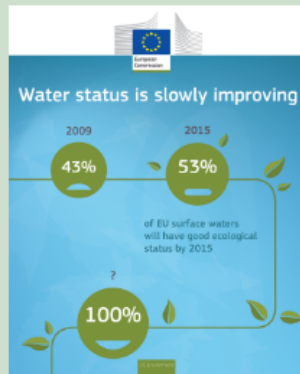


WATER



What's new ?

- 7/4/2016: [Inception Impact Assessment on the initiative "Minimum quality requirements for reused water in the EU \(new EU legislation\)"](#) published!
[Read more about the initiative](#) of the European Commission to promote water reuse.
- To coincide with **World Water Day 2016**, DG Environment has published a policy information sheet providing an **overview of water policies**. Click [here](#) to view the information sheet.
- [Infographics](#)



- The **EIP Water Conference** was a success with more than 500 participants! [Read more...](#)
- The first ever **pan-European overview reports on Preliminary Flood Risk Assessment (PFRA)** and on **Flood Hazard and Risk Maps (FHRMs)** have been published. PFRAs and FHRMs are two important steps towards reducing the risk of flood damage in Europe. [Read more...](#)
- Call for Evidence on the economic benefits of EU water policy**
The Commission is looking for empirical evidence, studies and concrete feedback on the economic benefits of EU water policy and the costs of non-implementation with a view to launching an open call for tenders for

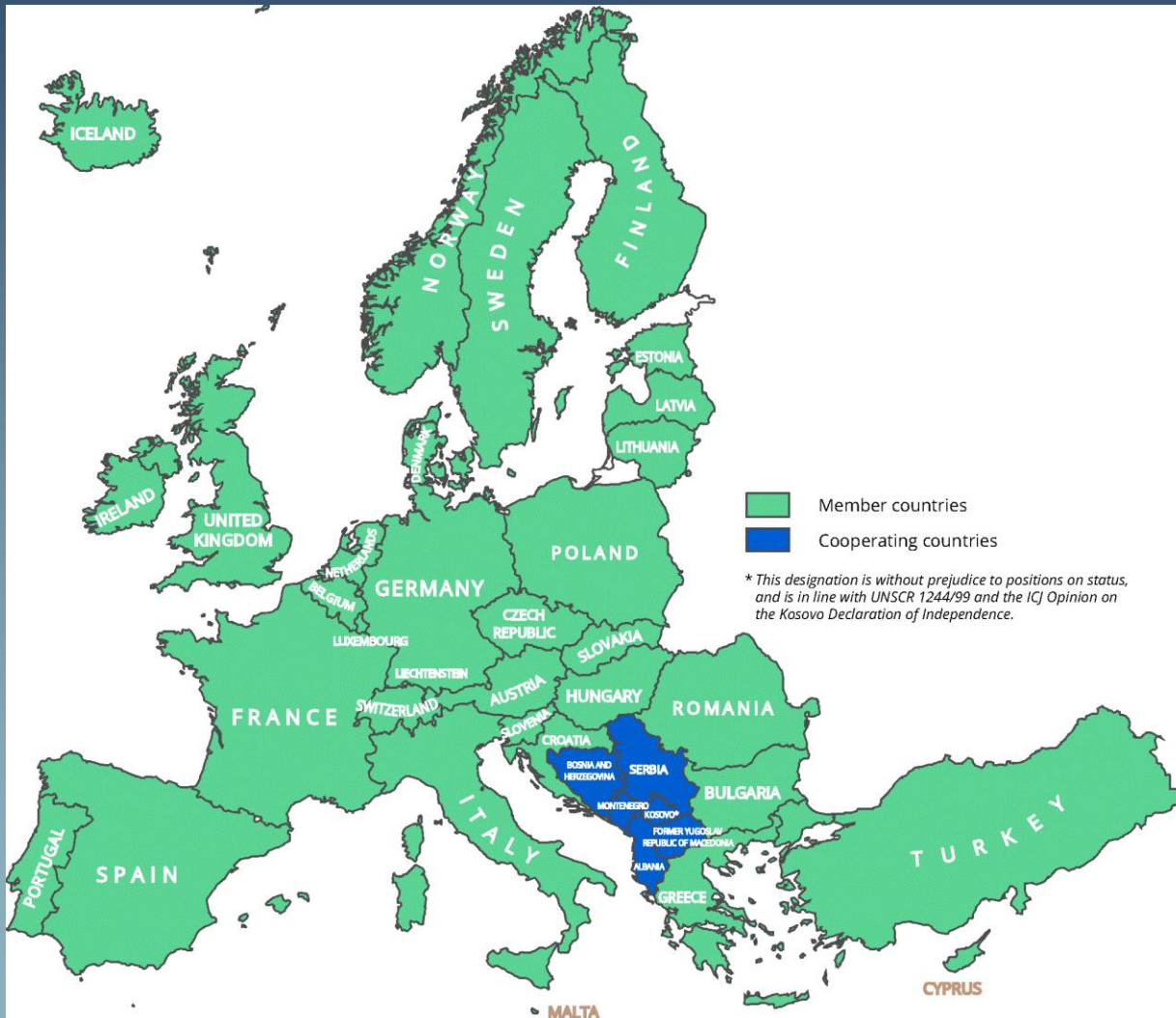
- a part of Water Information System for Europe (WISE)

EEA member countries as per 2014

[Link](#)

EEA Mission statement:

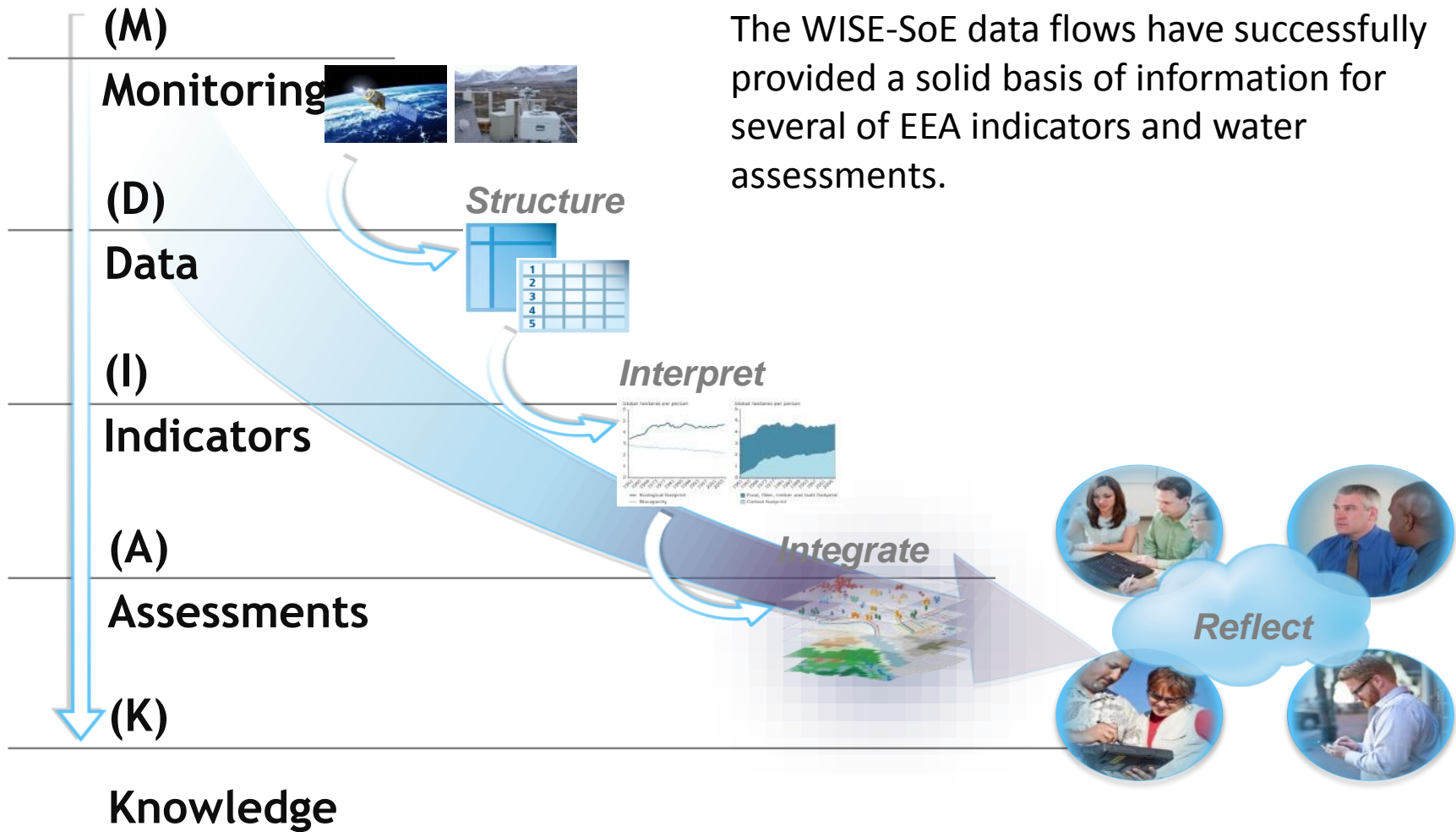
The European Environment Agency aims to support sustainable development and to help achieve significant and measurable improvement in Europe's environment through the provision of timely, targeted, relevant and reliable information to policymaking agents and the public.



EEA has a network of more than 300 institutions in 39 countries



The MDIAK Information Chain

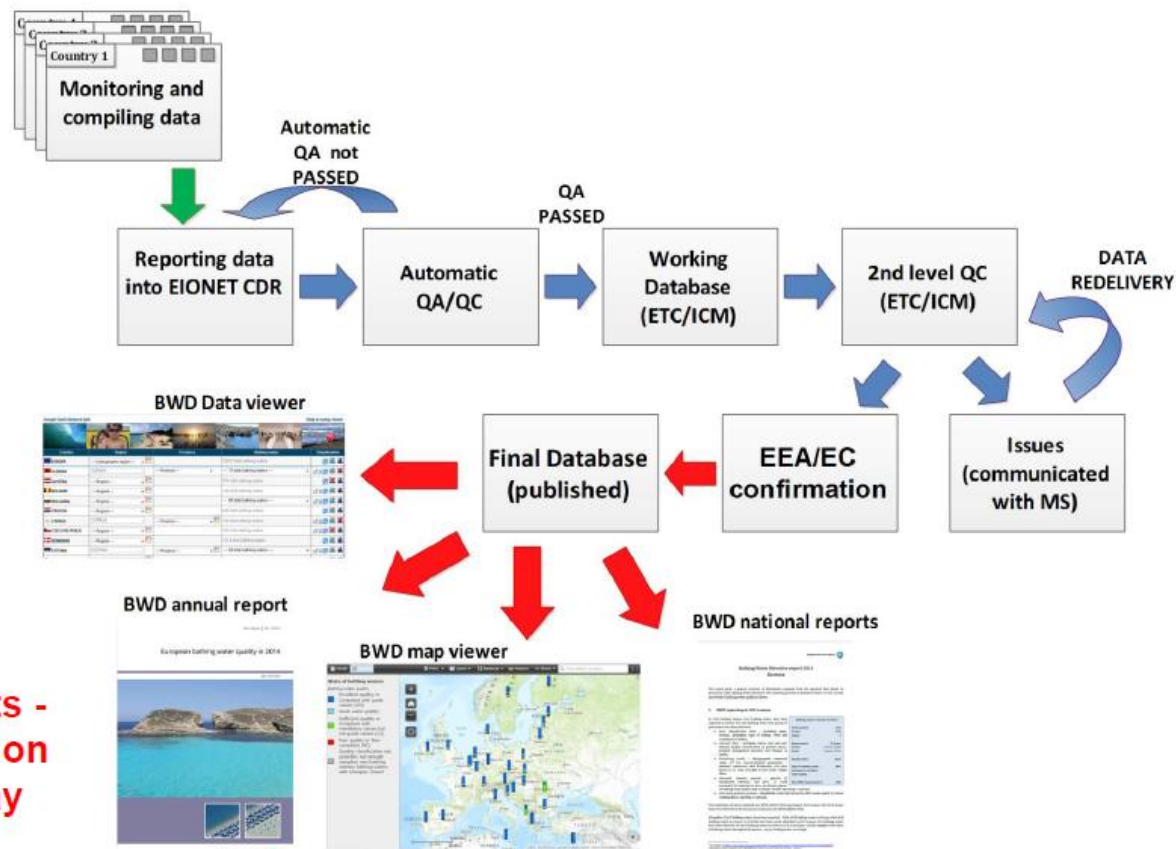


The WISE-SoE data flows have successfully provided a solid basis of information for several of EEA indicators and water assessments.

Visualisation of data flow

- example by EU Bathing Water Directive

Data processing and publication

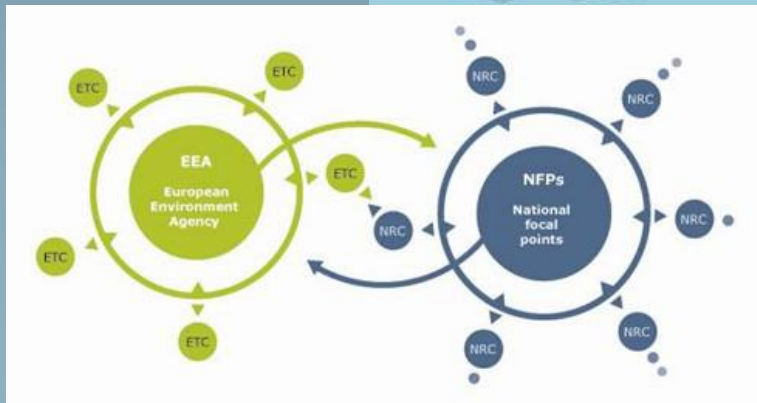
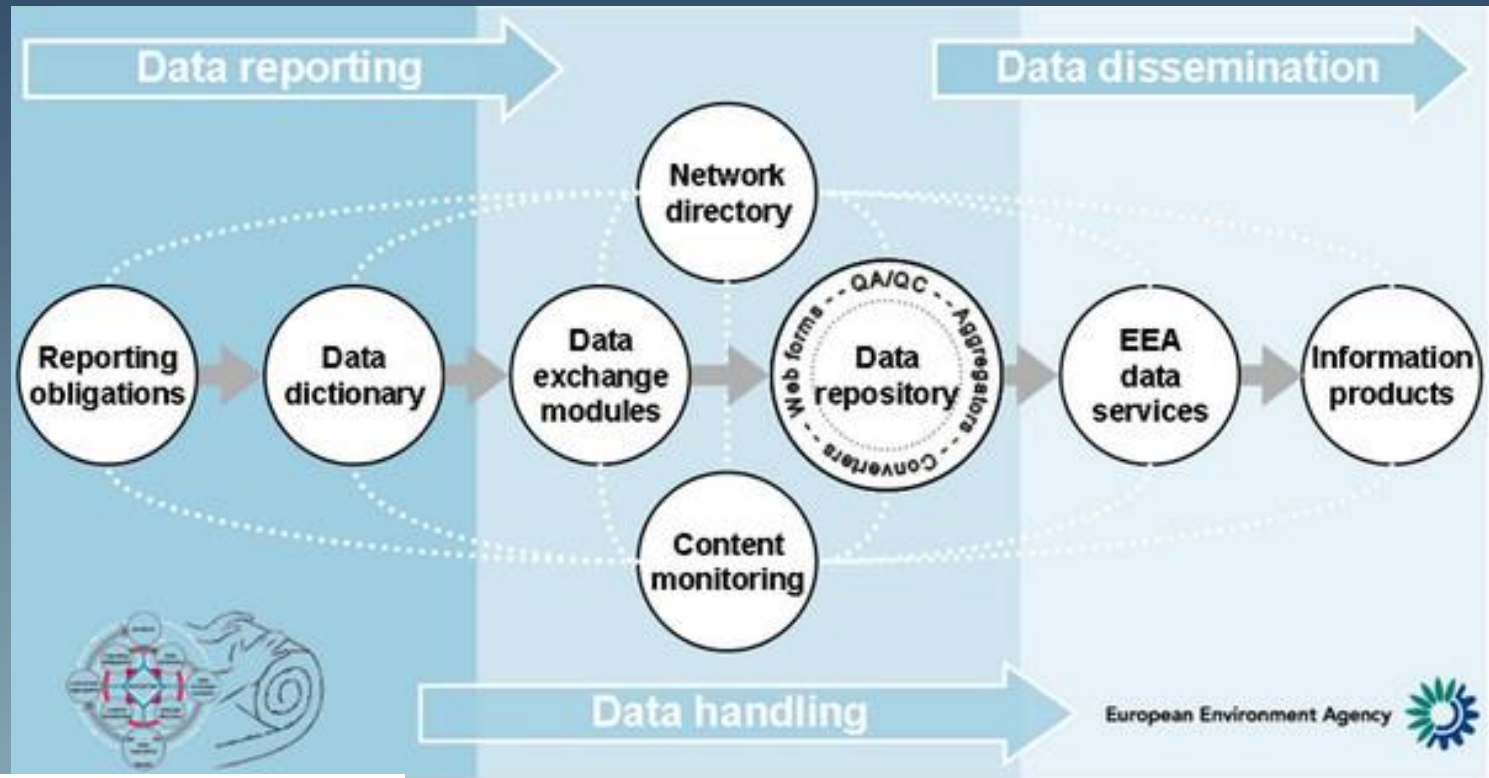


Five products - release on 20th May 2015.

<http://www.eea.europa.eu/themes/water/interactive/bathing/state-of-bathing-waters>

Data reporting from countries to EEA

Eionet State of the Environment (SoE) via Reportnet



Similar data pathways apply for EU directives

Reporting Obligations Database (ROD) provides an interactive overview

EIONET
Reporting Obligations Database (ROD)

SERVICES | REPORTNET | TOOLS | TOPICS (ETCS)

You are here: Eionet > ROD > Reporting obligations

- » Home
- » Countries/territories
- » Obligations
- » Clients
- » Subscribe
- » Help
- » Legal instruments
- » Core data flows
- » Database statistics
- » Advanced search

Reporting obligations : DG ENV (EC)-European Commission, Directorate General Environment [Water]

Show reporting obligations

Country: Any country or territory

Issue: Water

Organisation: DG ENV (EC) - European Commission, Directorate

35 items found, displaying all items

Reporting obligation	Report to	Deadline
Drinking Water Directive - Report on Water for Human Consumption	DG ENV (EC)	2018-02-28
EQSD in WFD characterisation of River Basin District (RBD), human activity and effects analysis, summary report and register of protected areas	DG ENV (EC)	2016-03-22
EQSD in WFD monitoring programme summary report	DG ENV (EC)	2015-12-22
EQSD in WFD progress on implementation programmes of measures	DG ENV (EC)	2018-12-22
EQSD in WFD River Basin District and competent authority report	DG ENV (EC)	2016-03-22
EQSD in WFD River Basin Management Plan including programme of measures	DG ENV (EC)	2016-03-22
Fish Directive Report	DG ENV (EC)	It is not ...

Here selected



Access to guidelines (with data dictionaries), reporting deadlines and list of deliveries provided for each dataflow

EIONET
Reporting Obligations Database (ROD)

SERVICES | REPORTNET | TOOLS | TOPICS (ETCS)

You are here: Eionet » ROD » Obligations » Water Framework Directive...

- » [Home](#)
- » [Countries/territories](#)
- » [Obligations](#)
- » [Clients](#)
- » [Subscribe](#)
- » [Help](#)
- » [Legal instruments](#)
- » [Core data flows](#)
- » [Database statistics](#)
- » [Advanced search](#)

Overview
Legislation
Deliveries
History

Reporting obligation for: Water Framework Directive - River Basin Management Plans - 2016 Reporting

Title	Water Framework Directive - River Basin Management Plans - 2016 Reporting
Description	EC Water Reporting Obligation For operational purposes, the following obligations are part on the 2016 WFD RBMP reporting process: - "Water Framework Directive - River Basin Management Plans - 2016 Spatial data" - "Water Framework Directive - River Basin Management Plans - 2016 RBDSUCA XML data" - "Water Framework Directive - River Basin Management Plans - 2016 RBD XML data"
Legislative instrument title	Water Framework Directive (consolidated)
Reporting dates and guidelines	
National reporting coordinators	WISE - National reporting coordinators (extranet-wise-nfp)
National reporting contacts	Water Framework Directive - Data reporters (extranet-wfd-data)
Reporting frequency	Every 72 months
Next report due	22/03/2016
Date comments	See "Water Framework Directive - River Basin Management Plans - 2010 Reporting" for further information on the 1st RBMP reporting.
Report to	European Commission
Other clients using this reporting	European Environment Agency EFTA Surveillance Authority
Reporting guidelines	Water Framework Directive reporting resources - 2016
Extra information	
Principle repository	CDR
Data used for	
Type of information reported	Data, Compliance, Spatial, State of the environment, Text report

[Link](#)

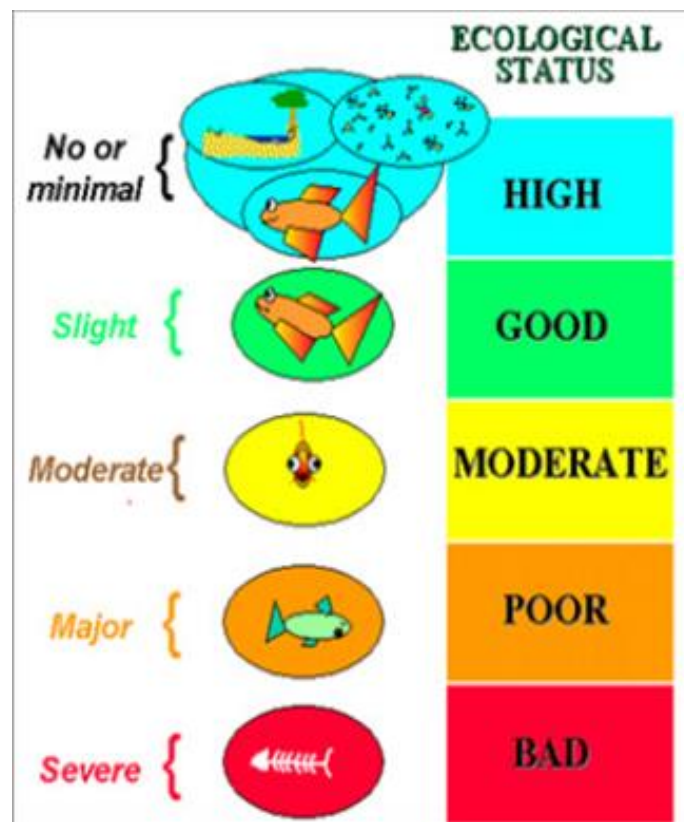


European Union: Water Framework Directive

- Introducing the river basin approach
- Protecting all water bodies, including transitional waters and coastal waters
- Covering all impacts on waters



Achievement of **good status in all water bodies** and no deterioration of status



- 104 000 river water bodies (1.3 million km of rivers – average water body length 11.3 km)
- 19 000 lake water bodies (two-thirds in Sweden and Finland)
- 1000 transitional and 3000 coastal water bodies

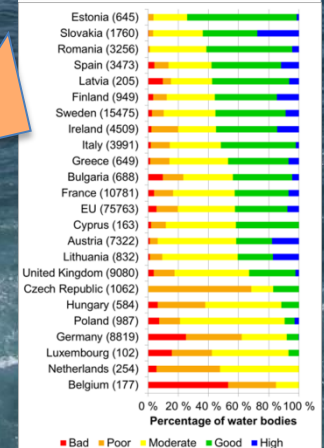
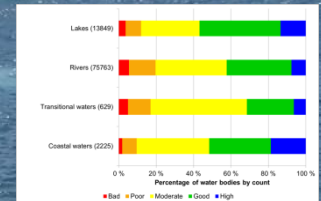
River Basin Management Plans



27 EU Member States
160 River Basin Districts

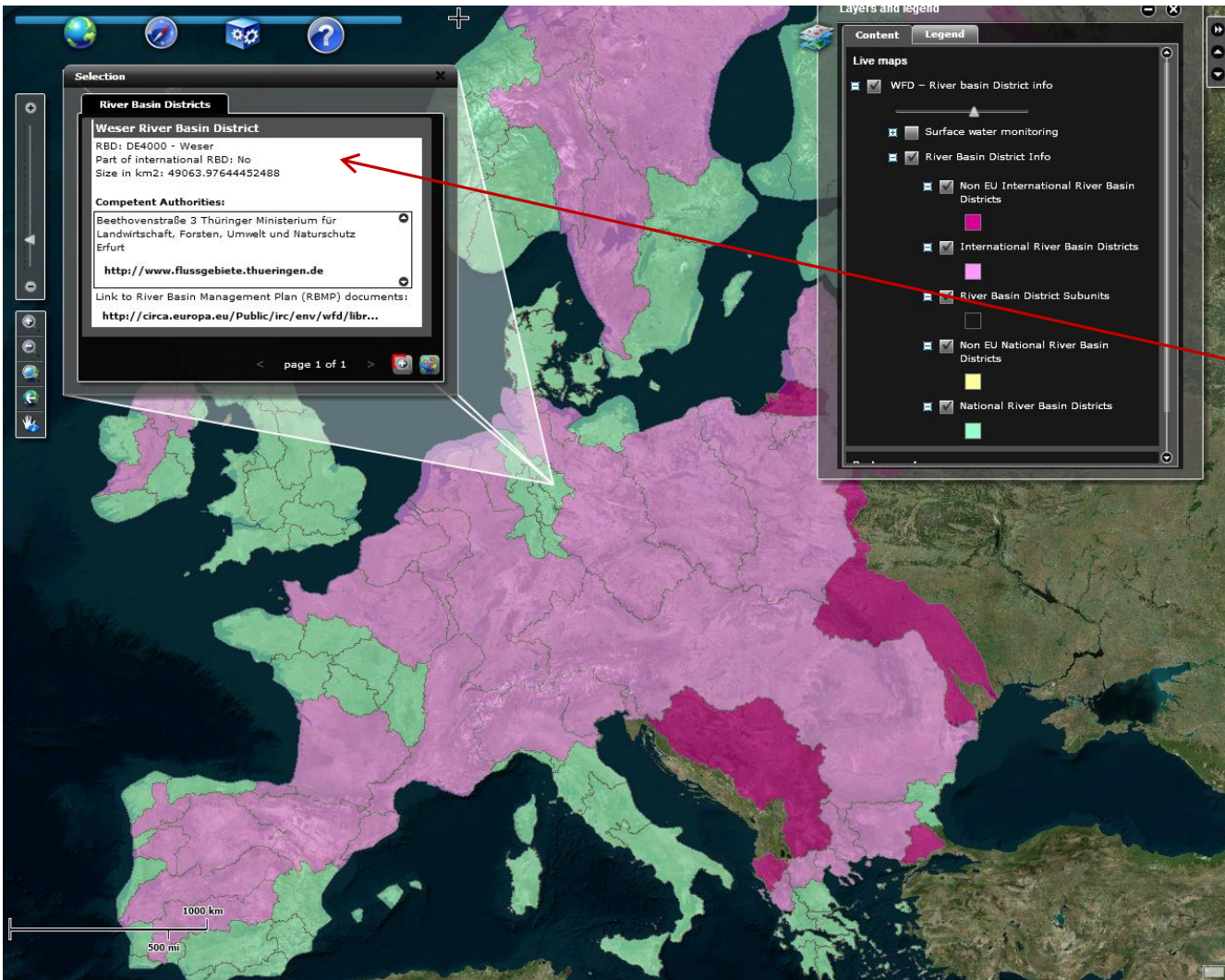


State of Europe's Waters



Interactive map viewer on basic RBD info

[Link](#)

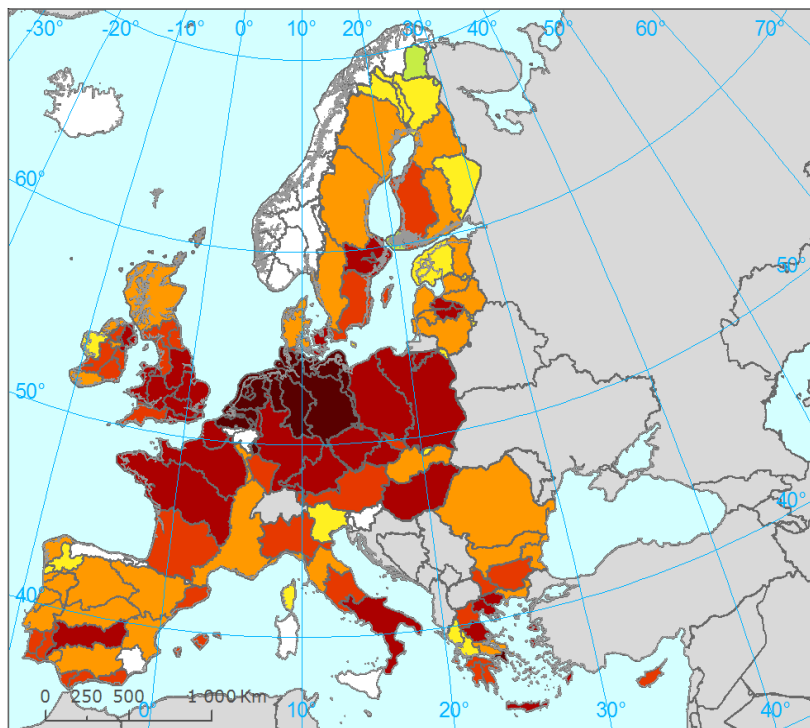


Pop-up windows give basic information on each River Basin District (RBD), the competent authority and link to River Basin Management Plan (RBMP) documents

European overview of ecological status of rivers and lakes

- based on 1st WFD River Basin Management Plans reported 2010

% Water Bodies in less than good ecological status



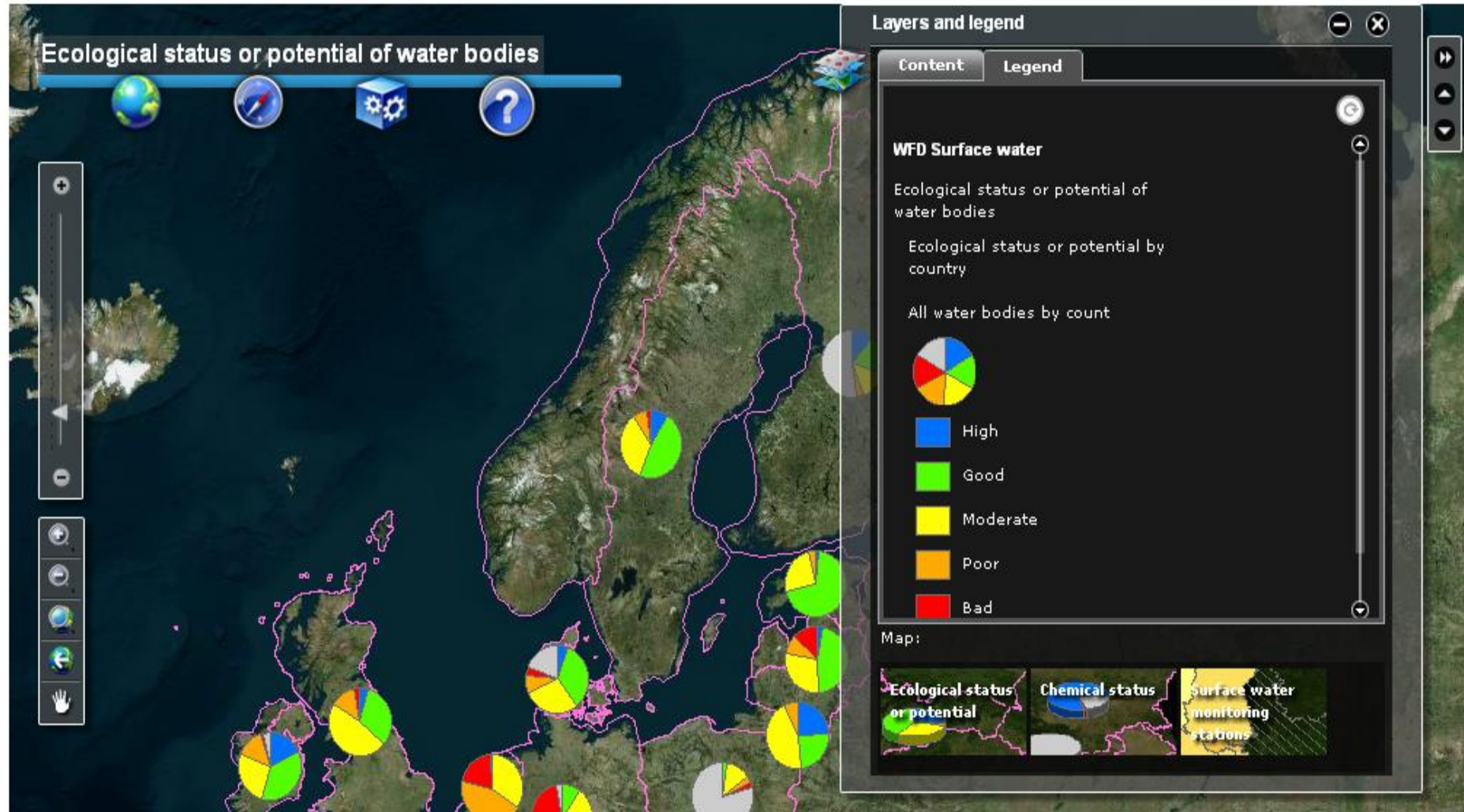
- More than half the surface water bodies in Europe are reported to be in less than good ecological status or potential.
- The worst areas of Europe concerning ecological status and pressures in freshwater are reported from Central Europe.
- Only few River Basin Districts are close to the aim of WFD of achieving at least good status

% of classified water bodies in less than good ecological status or potential
(left map: rivers and lakes, right map: transitional and coastal waters)

no data reported <10 % 10-30 % 30-50 % 50-70 % 70-90 % >=90 %

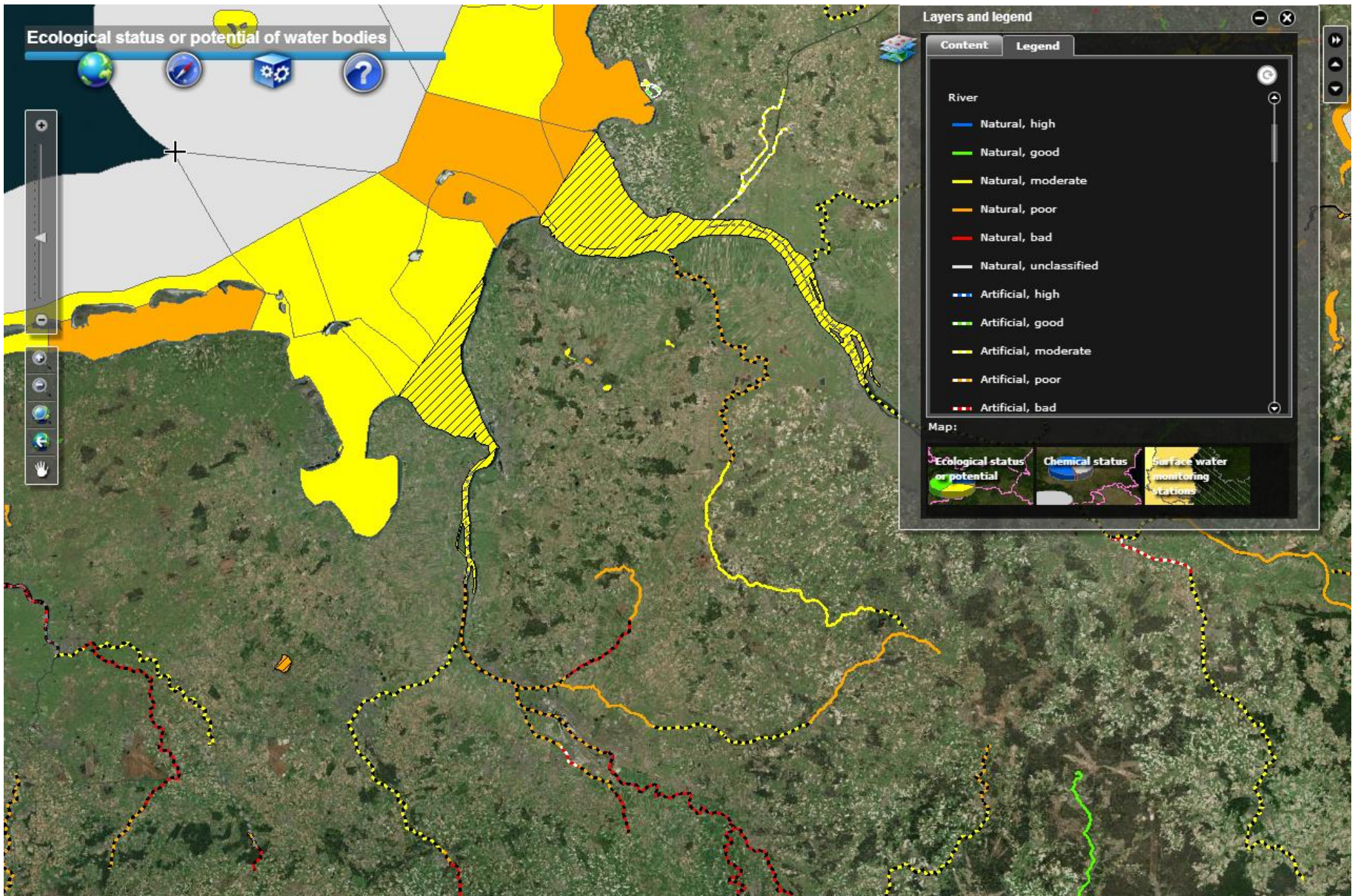
WFD: Surface Water Viewer

WFD surface water viewer

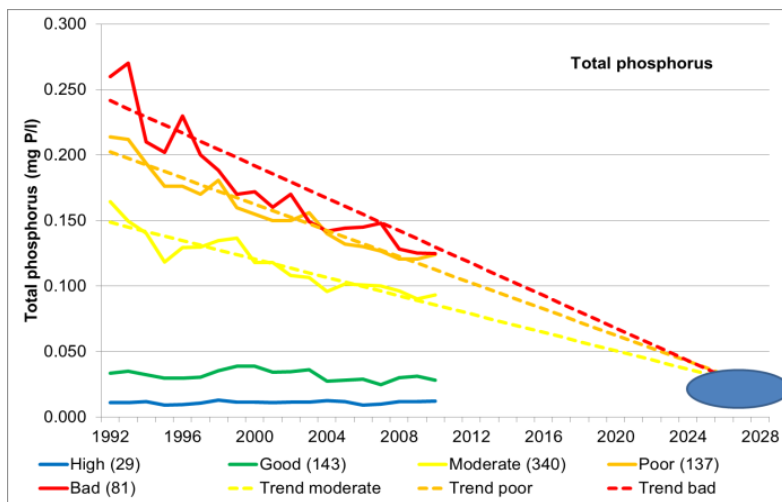
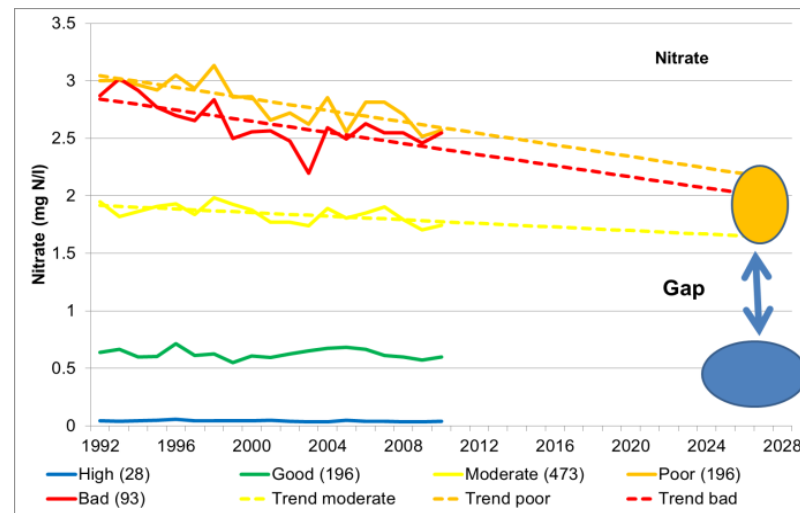
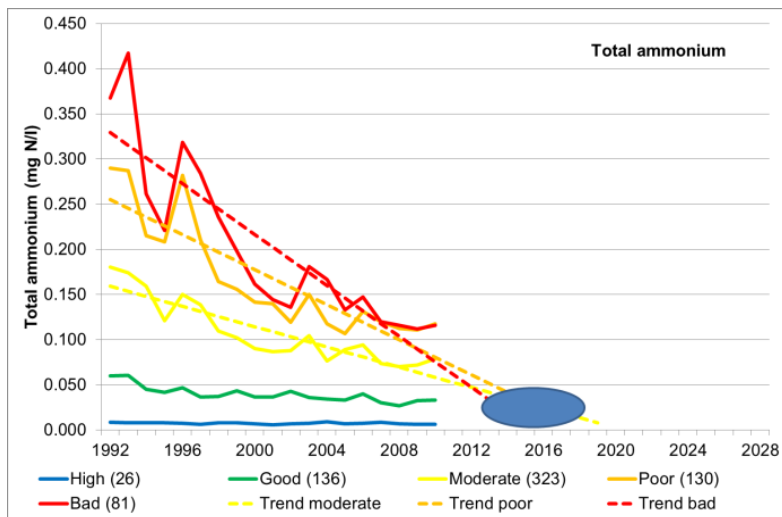


By zooming, the status of main rivers, lakes and coastal water bodies is displayed

[Link](#)



Ecological status and nutrients - trends



From EEA's State-of-the-Environment Report SOER 2015: Cross-country comparisons

Freshwater quality — nutrients in rivers

Briefing Published 18 Feb 2015 Last modified 20 Feb 2015, 03:39 PM

Topics: [Water](#)



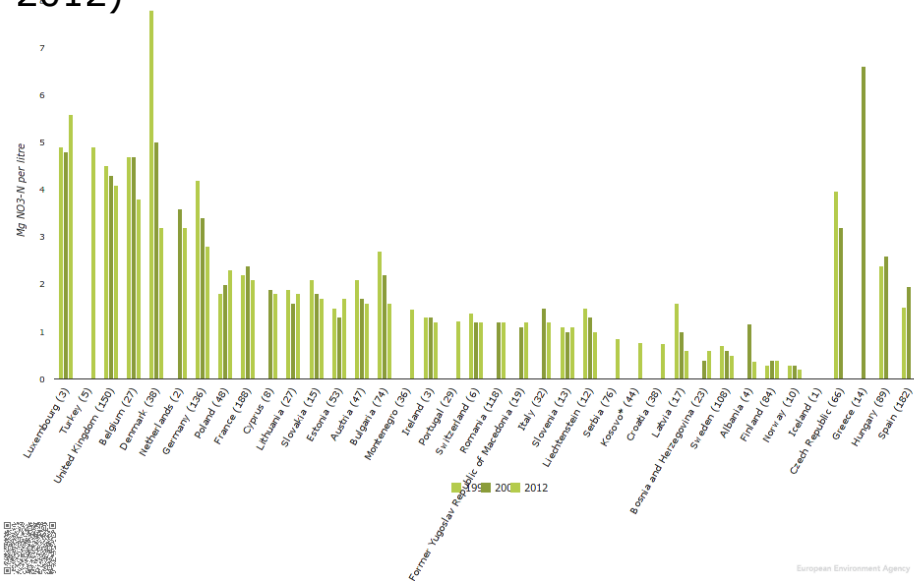
© Katarzyna Dąbrowska/EEA

Nutrient enrichment of Europe's freshwaters is a concern, with pollution from agriculture a cause of poor water quality.

Average nitrate concentrations in European rivers reduced by over 20% between 1992 and 2012, whilst orthophosphate concentrations more than halved.

Enhanced integration of water policy objectives into other policy areas, especially agriculture, is essential to ensure that a sufficient quantity of good quality water is available for people's needs and the environment.

Average concentration of nitrate-nitrogen in rivers in 38 European countries (1992, 2000 and 2012)



European Environment Agency

Setting the scene

Europe's freshwaters are affected by a range of pressures, including water pollution, water scarcity, floods, and modifications to water bodies that affect morphology and water flow.

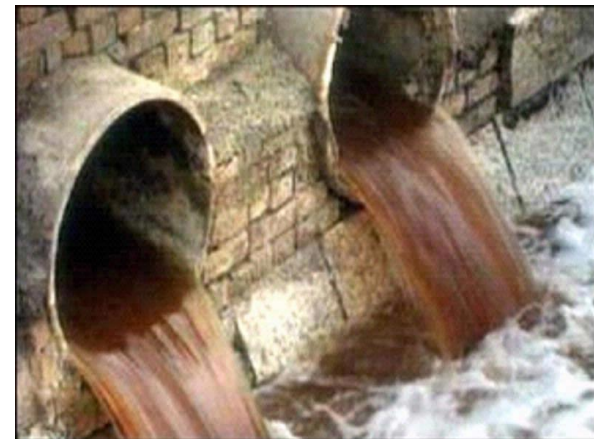
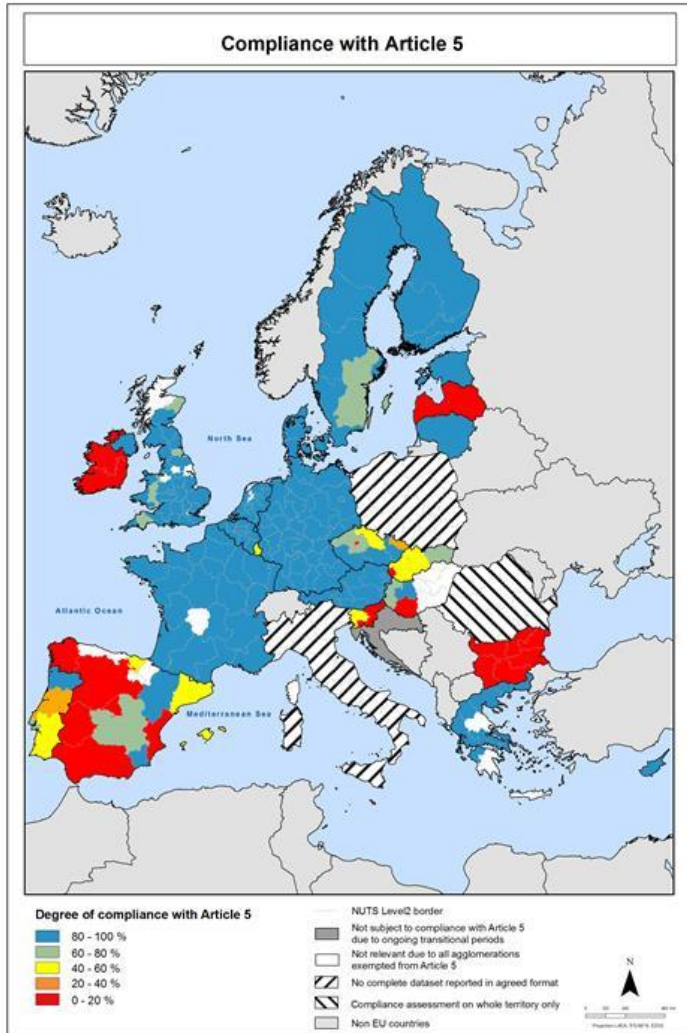
<http://www.eea.europa.eu/soer-2015/countries-comparison/freshwater>

European Environment Agency



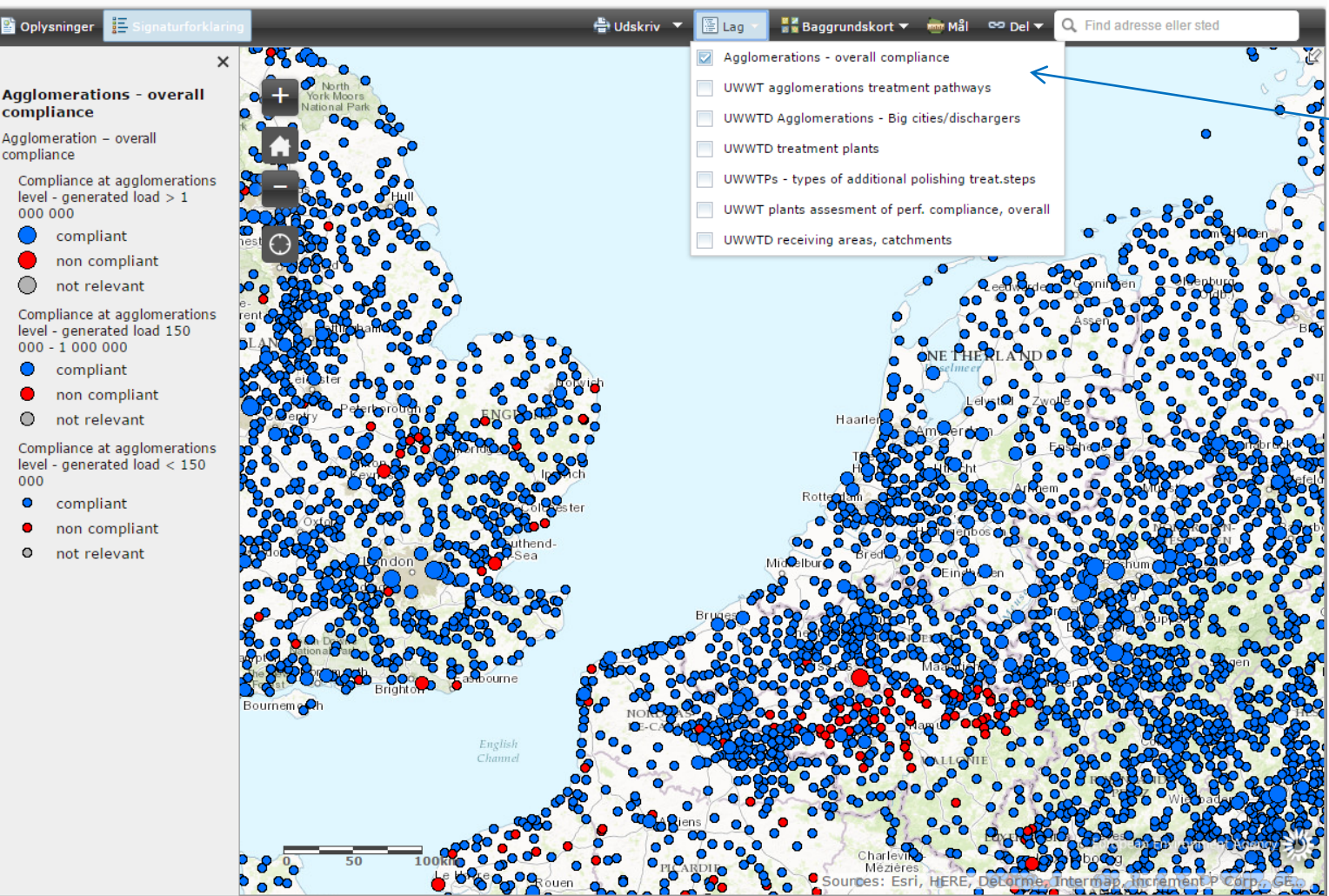
Urban waste water treatment

Art. 5: type of treatment in sensitive areas



UWWTD: compliance status for each agglomeration displayed in interactive mapviewer

Urban Waste Water Treatment maps



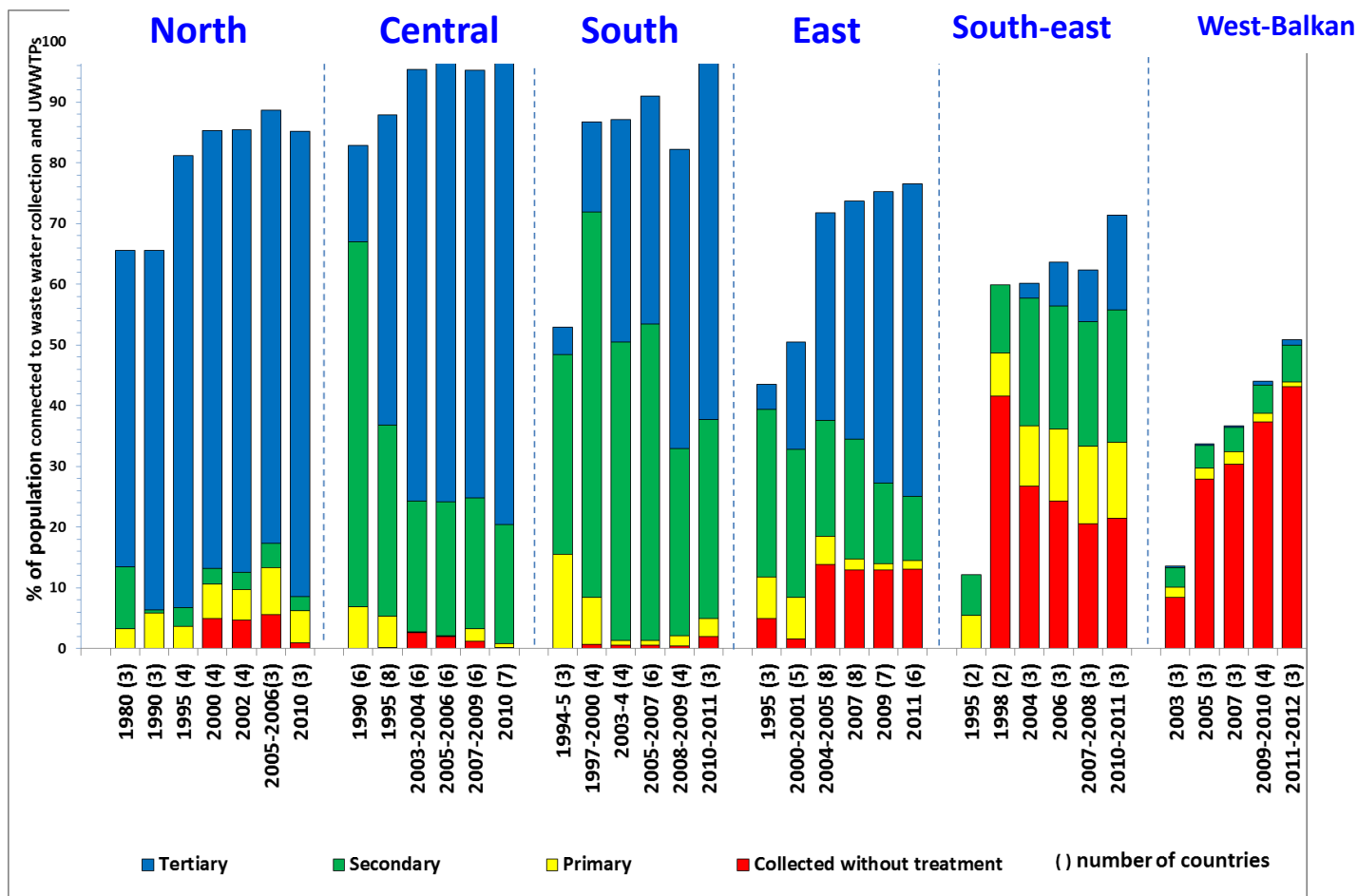
[Link](#)

More thematic layers can be selected



Improved urban waste water treatment

- Implementation of the UWWTD has led to improvements in wastewater treatment and a reduced discharge of nutrients and organic pollution to freshwater.

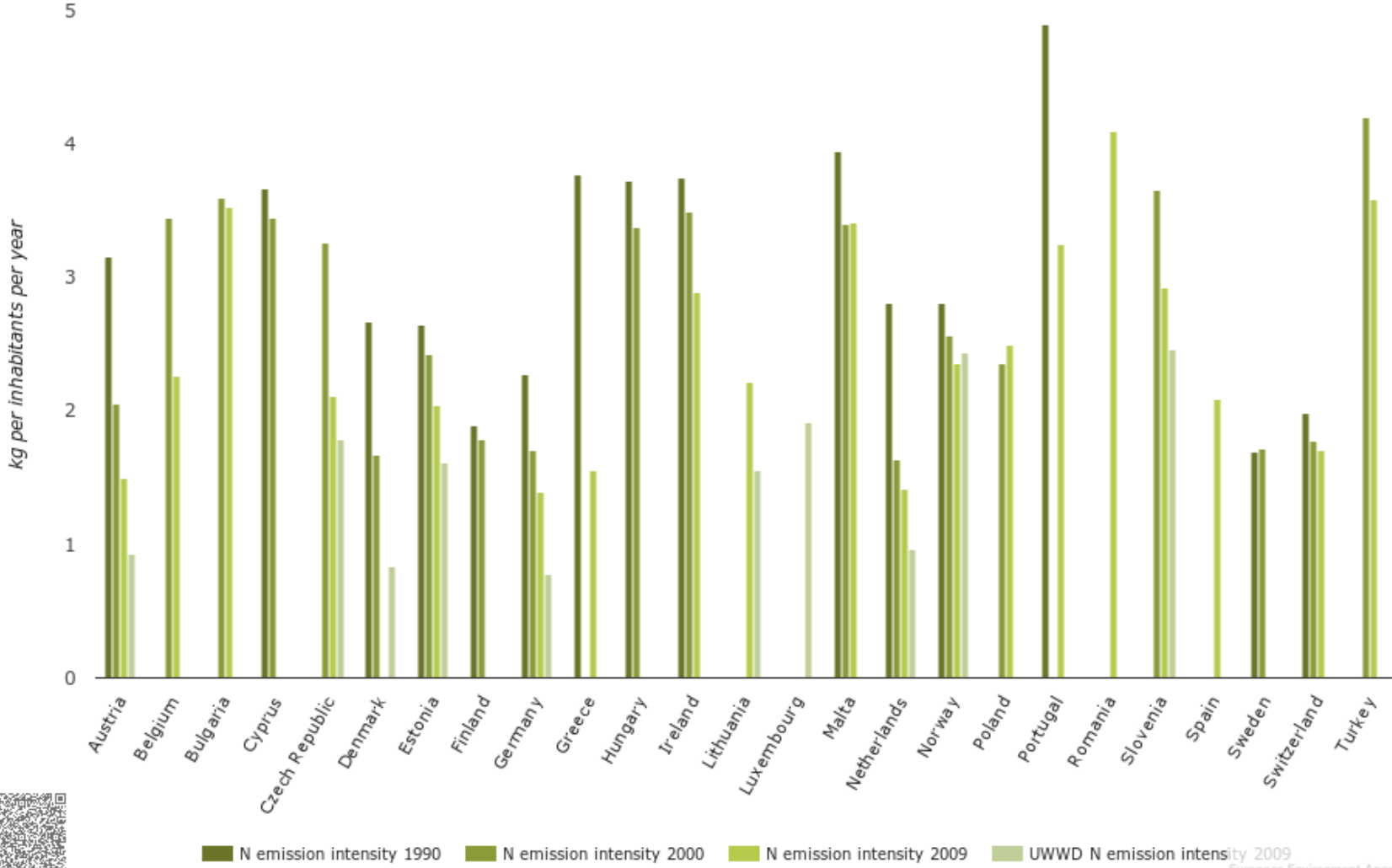


Link: <http://www.eea.europa.eu/sandbox/peterk-test/urban-wastewater-treatment-test2#tab-dashboard-01>

Finland: <http://www.eea.europa.eu/sandbox/peterk-test/urban-wastewater-treatment-northern-2#tab-dashboard-01>

Data reported to European institutions can be used across data flows (SEIS principle)
 - here combining data from Eurostat with DG ENV (UWWTD) into an EEA indicator

Chart – Nitrogen emission intensity of domestic sector



Legend: N emission intensity 1990, N emission intensity 2000, N emission intensity 2009, UWWTD N emission intensity 2009

European Bathing Water Quality in 2015

Annual reporting of Bathing Water quality

(EN, DE and FR)

- 30 National reports
- Map viewers

“ Our assessment shows that bathing water quality has improved remarkably over the years. More and more bathing waters have not only reached the minimum requirements, but have improved to excellent standards. In some cities, people can even enjoy swimming in public harbour baths. ”

Hans Bruyninckx, EEA Executive Director



[Link](#)

European Environment Agency 

European Environment Agency 

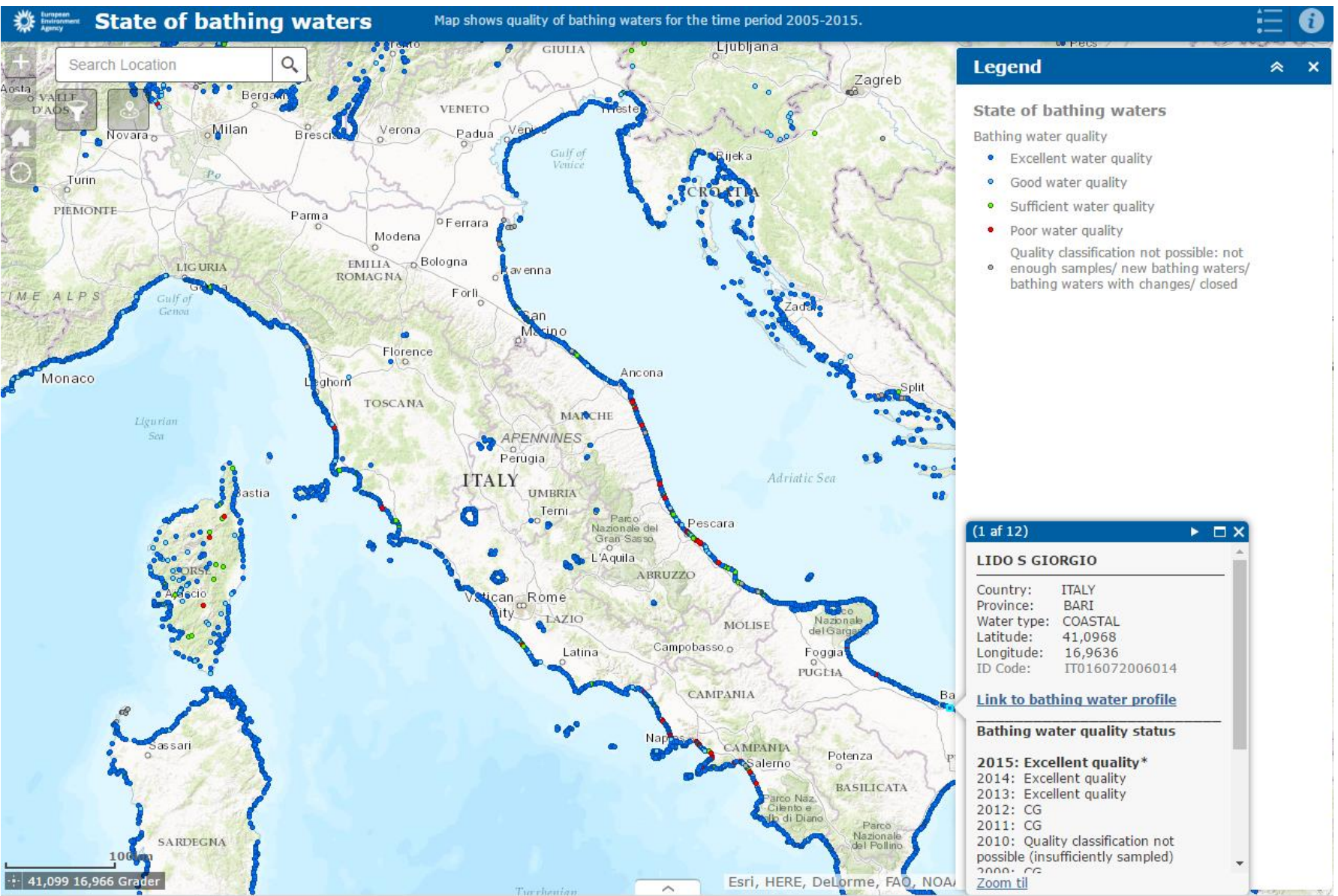
WISE Bathing Water interactive map viewer

- Overview at country level



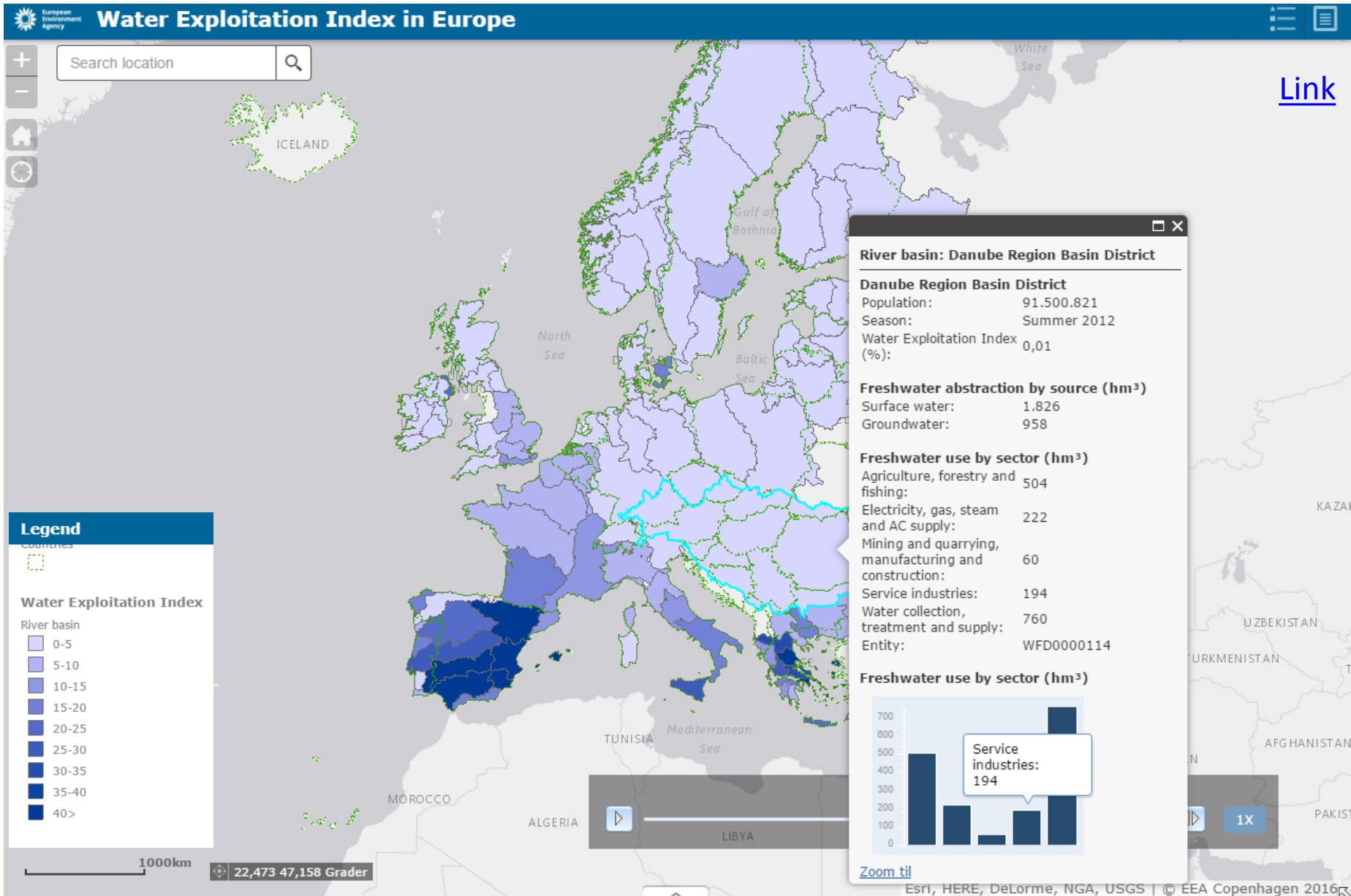
WISE Bathing Water interactive map viewer

- More detailed zoom level display individual beaches and link to national profiles



Water quantity: Indicator for water exploitation per RBD

$$WEI+ = (\text{Abstractions} - \text{Returns}) / \text{Renewable Water Resources}$$



You are here: [Home](#) / [Environmental topics](#) / [Water](#) / [Data centre overview](#)

Data centre overview

The Water Data Centre provides the European entry point for water related data as part of the Water Information System for Europe (WISE). You can browse the catalogue of European datasets, interactive maps and indicators.

Search

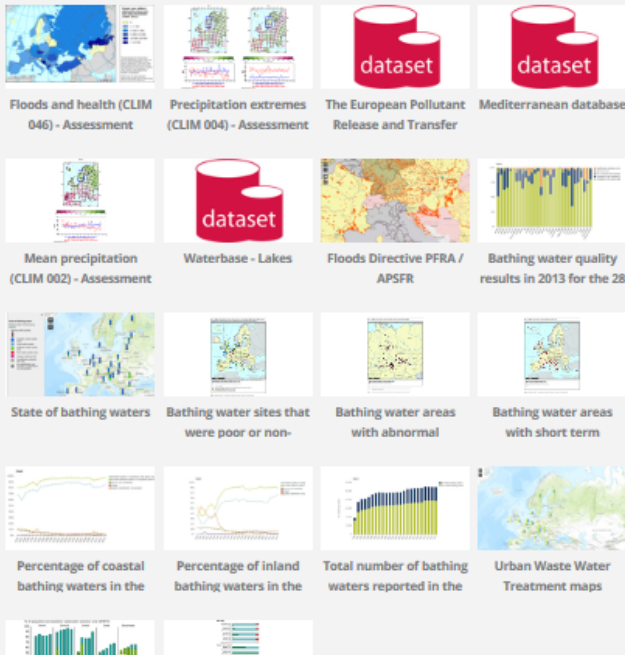
[Advanced search](#)

Search data, maps, indicators...


[Search](#)

Browse catalogue

All data products [Datasets](#) [Maps](#) [Interactive maps](#) [Indicators](#) [Graphs](#)

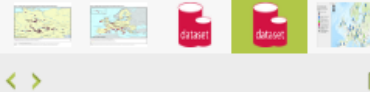


- Floods and health (CLIM 046) - Assessment
- Precipitation extremes (CLIM 004) - Assessment
- The European Pollutant Release and Transfer
- Mediterranean database
- Mean precipitation (CLIM 002) - Assessment
- Waterbase - Lakes
- Floods Directive PFRA / APSFR
- Bathing water quality results in 2013 for the 28
- State of bathing waters
- Bathing water sites that were poor or non-
- Bathing water areas with abnormal
- Bathing water areas with short term
- Percentage of coastal bathing waters in the
- Percentage of inland bathing waters in the
- Total number of bathing waters reported in the
- Urban Waste Water Treatment maps

 [Water homepage](#)



The European Pollutant Release and Transfer Register (E-PRTR), Member



Water

Menu [<](#)

Data centre [v](#)

[Data centre overview](#)

[Interactive maps and data viewers by category](#)

[Data and maps](#)

[GIS applications API](#)

[Countries data reporting](#)

WISE products available from Water Data Centre at EEA

[link](#)

Wrap-up (1/2)

- All reporting to EU directives (DG ENV), State-of-the-Environment (EEA) and water statistics (Eurostat) takes place electronically
 - Reporting to EU directives and data processing takes place via EEA (Reportnet)
 - EU directives compliance assessment conducted by DG ENV
- The level of aggregation differs, but in general, the data policy allows for public access to the reported data
- The transparent and open data policy allows for sharing of data across data flows and development of dissemination products both targetted for the expert user and the public at large
- The open data policy giving public access to datasets, indicators and other dissemination products has several advantages, e.g. ;
 - saves a lot of time by stakeholder self-service to access and use data
 - Builds up trust and confidence
 - Qualifies the public debate and dissemination via the media
 - Raises environmental awareness and acknowledges progress



Wrap-up (2/2)

- There is always a risk for “misuse” of data out of their context and significance – however, such risk is minimised, e.g.
 - by publishing assessments on status, trends and
 - balanced highlights of important aspects
 - Telling the stories in indicator assessments directly useable by the media
- The buildup of reporting systems at European level has taken place over > 2 decades
 - Has required considerable resources – both at the European and national levels
 - It only works when environmental legislation, monitoring programmes, planning and coordination is in place
- Continuous technical development takes place in cooperation with Member States to
 - further improve QA/QC routines (data quality)
 - accelerate and facilitate the reporting by direct linking with national datasets (timeliness)

Hopefully, this presentation can give inspiration for Indian authorities for buildup of environmental systems for Ganges / India



Thank you for your attention

More information



eea.europa.eu



water.europa.eu