Introduction to the EEA

• EEA 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 policy makers and the public.

• Independent EU agency
• Analyse, assess and provide information
• Interface between science and policy
• Dependent upon strong networks to carry out our work.
Progress update

• EEA assessment to be published 3rd July
  – Considers data reported by 25* Member States (Greece, Ireland and Lithuania, plus Norway, to report)

• Commission’s compliance report launch expected at Vienna water conference 20-21 Sept

*Overall percentages may change as more data come in
RBMP assessment contents

- Status of European waters
- Pressures causing less than good status
- Progress achieved in the 1st River Basin Management Plan cycle (2010-2015)

[Map showing surface water bodies failing to achieve good ecological status]
WFD reporting - baseline (25 Member States)

- **160 RBDs**
- **89 000 river water bodies** - 1.2 million km – average length 13 km
- **18 165 lake water bodies** – 2/3 from Sweden and Finland - average area 4.9 km$^2$
- **782 transitional water bodies** - mean area 19 km$^2$
- **2835 coastal water bodies** - mean area 102 km$^2$
- **46 territorial waters**
- **13 400 groundwater bodies** - 4.3 million km$^2$
In summary...

- Improved understanding: status, pressures and measures.
- Groundwaters in best status: 74% area in good chemical status; 89% in good quantitative status.
- Surface waters: 40% in good ecological status; 38% in good chemical status.
- European waters remain under pressure from: water pollution, over-abstraction and physical change (hydromorphology).
Status of groundwater and surface waters

Groundwater bodies
- 89% Good status
- 25% Chemical status
- 9% Poor status

Surface water bodies
- 38% Good status
- 30% Ecological status
- 12% Moderate/Poor/Bad
- 6% High/Good
- 39% Chemical status
Change in status from 1\textsuperscript{st} to 2\textsuperscript{nd} RBMPs

Limited change in status - most water bodies have same status in both cycles.

Proportion of water bodies with unknown status has decreased.

Improvements visible at level of individual quality elements and pollutants.

Remark: % for status in 2nd RBMPs in previous are slightly different as only water bodies available in both periods are compared.
Over 150 such “dashboards” are available
### WISE-Freshwater WFD - Template for tables

#### Title
Surface water bodies, number or size, by Category

#### EU results

<table>
<thead>
<tr>
<th>Measure</th>
<th>Number</th>
<th>Water bodies</th>
<th>Filter, Selections</th>
<th>e.g. 1st &amp; 2nd RBMPs</th>
<th>Category</th>
<th>Spatial Status</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
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<td>1,044</td>
<td>8,8%</td>
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</tbody>
</table>

#### Notes
1. River basin districts and sub-units as reported in the 2nd RBMPs.
2. For river water bodies, the size value is the length, for other water body categories, the size value is the area (km²).
3. ‘Unchanged’ water bodies are water bodies that have not been reclassified between the 1st and 2nd RBMP.
Note: Select ecological status
Biological quality element – benthic invertebrates

Biological quality elements by country

river.bio.auth.gr
WISE-Freshwater WFD – Ecological status

The image shows a bar chart titled "Surface water bodies: Ecological status or potential, by category (2nd RBMP)". It displays the ecological status by category for EU, Rivers, Lakes, Transitional, and Coastal waters.

- EU: 39% Good, 30% Moderate, 12% Poor, 6% Bad
- Rivers: 40% Good, 29% Moderate, 13% Poor, 6% Bad
- Lakes: 36% Good, 35% Moderate, 9% Poor, 5% Bad
- Transitional: 40% Good, 16% Moderate, 12% Poor, 9% Bad
- Coastal: 34% Good, 36% Moderate, 10% Poor, 6% Bad

The chart uses different colors to represent the ecological status or potential: High (green), Good (green), Moderate (yellow), Poor (orange), and Bad (pink).
Surface water chemical status, with and without uPBTs*

- Subset of “ubiquitous, persistent, bioaccumulative and toxic” priority substances

European Environment Agency
Pressures
Surface waters main pressures

- Point sources: 18%
- Diffuse sources: 38%
- Atmospheric deposition: 38%
- Abstraction: 7%
- Hydromorphology: 40%
Groundwater bodies - main pressures

<table>
<thead>
<tr>
<th>Source Type</th>
<th>% Groundwater Body Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diffuse sources</td>
<td>35%</td>
</tr>
<tr>
<td>Abstraction</td>
<td>17%</td>
</tr>
<tr>
<td>Point sources</td>
<td>14%</td>
</tr>
<tr>
<td>Unknown</td>
<td>3%</td>
</tr>
</tbody>
</table>

Groundwater pressures table
Key findings for European waters -

• **Remain under pressure** from multiple sources: water pollution, over-abstraction and hydromorphological change.

• Challenges: **securing sustainable management** of water and dependent ecosystems; **ensuring availability** of sufficient high-quality water.

• Need to **improve implementation** of environmental policies for water protection and maximising synergies between them.

• **Economic sectors** e.g. agriculture, energy and transport need to adopt management practices which keep water ecosystems healthy and resilient.
Thanks also to Member States, Reporters, colleagues in DG Environment, ETC-ICM and at EEA, particularly Peter Kristensen and Fernanda Nery.

Questions?
Delineation of water bodies (number, length, area, natural, heavily modified and artificial)

Surface water bodies: Number and Size
- Surface water bodies: Number and Size
- Surface water bodies: Number or Size, by Category
- Surface water bodies: Number or Size, by Category and Type (natural, heavily modified and artificial)

Surface water bodies: Natural, heavily modified and artificial water bodies
- Surface water bodies: Natural, heavily modified and artificial water bodies, by category
- Surface water bodies: Natural, heavily modified and artificial water bodies, by country
- Surface water bodies: Natural, heavily modified and artificial water bodies, by category and country

Surface water bodies: Physical alterations and designated water uses
- Surface water bodies: Physical alterations
- Surface water bodies: Designated water uses

Surface water bodies: Delineation of the management units in the 2nd and 1st RBMP
- Surface water bodies: delineation of the management units in the 1st and 2nd RBMP

Surface water bodies: Delineation of water bodies in the 2nd and 1st River Basin Management Plans (RBMP)
- Surface water bodies: Evolution type, by category
- Surface water bodies: Evolution type, by country
- Surface water bodies: Evolution type, by category and country

Groundwater bodies
- Groundwater bodies: Number and Size (aquifer type, productivity)

Groundwater bodies: Delineation of water bodies in the 2nd and 1st RBMP
- Groundwater bodies: Evolution type, by geological formation
- Groundwater bodies: Evolution type, by country
- Groundwater bodies: Evolution type, by geological formation and country

Blue: Tables; Green: Graphs; Orange: Maps
Ecological status and potential

Surface water bodies: Status
- Surface water bodies: Number and Size, by Ecological status or potential
- Surface water bodies: Number or Size, by Category and Ecological status or potential

Surface water bodies: Ecological status or potential and chemical status
- Surface water bodies: Ecological status or potential and chemical status, by category
- Surface water bodies: Ecological status or potential and chemical status, by country
- Surface water bodies: Ecological status or potential and chemical status, by category and country

Surface water bodies: Status maps
- Surface water bodies failing to achieve good status, by RBD
- Surface water bodies failing to achieve good status, by country
- Surface water bodies failing to achieve good status, by country and RBD

Surface water bodies: Expected status
- Surface water bodies: Good ecological status expected in 2015
- Surface water bodies: Good ecological status expected achievement date

Surface water bodies: Status assessment confidence
- Surface water bodies: Ecological status assessment confidence

Surface water bodies: Ecological status or potential and chemical status assessment confidence
- Surface water bodies: Ecological status or potential and chemical status assessment confidence, by category
- Surface water bodies: Ecological status or potential and chemical status assessment confidence, by country
- Surface water bodies: Ecological status or potential and chemical status assessment confidence, by category and country

Surface water bodies: Ecological status or potential in the 2nd and 1st RBMP
- Surface water bodies: Ecological status or potential, by category
- Surface water bodies: Ecological status or potential, by country
- Surface water bodies: Ecological status or potential, by category and country

Ecological status: Intercalibration types, broad types and by sea regions
Ecological status and potential – quality elements

Surface water bodies: Quality element status
- Surface water bodies: Quality element status
- Surface water bodies: Quality element group status
- Surface water bodies: Quality elements with less than good status or with moderate, poor or bad status - overview

Surface water bodies: Quality element status
- Surface water bodies: QE status, by category
- Surface water bodies: QE status, by quality element and category
- Surface water bodies: QE status, by quality element and country
- Surface water bodies: QE status, by quality element, category and country

Surface water bodies: Quality element group status
- Surface water bodies: QE group status, by category
- Surface water bodies: QE group status, by quality element and category
- Surface water bodies: QE group status, by quality element and country
- Surface water bodies: QE group status, by quality element, category and country

Surface water bodies: Quality element status in the 2nd and 1st RBMP
- Surface water bodies: QE status in the 2nd and 1st RBMP, by category
- Surface water bodies: QE status in the 2nd and 1st RBMP, by quality element and category
- Surface water bodies: QE status in the 2nd and 1st RBMP, by quality element and country
- Surface water bodies: QE status in the 2nd and 1st RBMP, by quality element, category and country

Surface water bodies: Quality element group status in the 2nd and 1st RBMP
- Surface water bodies: QE group status in the 2nd and 1st RBMP, by category
- Surface water bodies: QE group status in the 2nd and 1st RBMP, by quality element and category
- Surface water bodies: QE group status in the 2nd and 1st RBMP, by quality element and country
- Surface water bodies: QE group status in the 2nd and 1st RBMP, by quality element, category and country
Ecological status and potential – quality elements II

Surface water bodies: Number of Quality Elements used in the assessment of the Ecological status or potential

- Surface water bodies: Number of quality element used, by category
- Surface water bodies: Number of quality element used, by country
- Surface water bodies: Number of quality element used, by category and country

Surface water bodies: Ecological status or potential calculated from Quality Elements

- Surface water bodies: Ecological status or potential calculated from Quality Elements, by category
- Surface water bodies: Ecological status or potential calculated from Quality Elements, by country
- Surface water bodies: Ecological status or potential calculated from Quality Elements, by category and country

Surface water bodies: River basin specific pollutants (RBSP)

- Surface water bodies: River basin specific pollutants
- Surface water bodies: River basin specific pollutants - overview
- Surface water bodies: River basin specific pollutants - other RBSP

Surface water bodies: River basin specific pollutants

- Surface water bodies: River basin specific pollutants - causing failure

Blue: Tables; Green: Graphs; Orange: Maps
Surface water bodies: Status
- Surface water bodies: Number and Size, by Chemical status
- Surface water bodies: Number or Size, by Category and Chemical status

Surface water bodies: Ecological status or potential and chemical status
- Surface water bodies: Ecological status or potential and chemical status, by category
- Surface water bodies: Ecological status or potential and chemical status, by country
- Surface water bodies: Ecological status or potential and chemical status, by category and country

Surface water bodies: Status maps
- Surface water bodies failing to achieve good status, by RBD
- Surface water bodies failing to achieve good status, by country
- Surface water bodies failing to achieve good status, by country and RBD

Surface water bodies: Chemical status with and without uPBT
- Surface water bodies: Chemical status with and without uPBT, by category
- Surface water bodies: Chemical status with and without uPBT, by country
- Surface water bodies: Chemical status with and without uPBT, by country and category

Surface water bodies: Chemical status in the 2nd and 1st RBMP
- Surface water bodies: Chemical status, by category
- Surface water bodies: Chemical status, by country
- Surface water bodies: Chemical status, by category and country

Blue: Tables; Green: Graphs; Orange: Maps
Surface water bodies: Expected status

- Surface water bodies: Good chemical status expected in 2015
- Surface water bodies: Good chemical status expected achievement date

Surface water bodies: Status assessment confidence

- Surface water bodies: Chemical status assessment confidence

Surface water bodies: Ecological status or potential and chemical status assessment confidence

- Surface water bodies: Ecological status or potential and chemical status assessment confidence, by category
- Surface water bodies: Ecological status or potential and chemical status assessment confidence, by country
- Surface water bodies: Ecological status or potential and chemical status assessment confidence, by category and country

Surface water bodies: Priority substances (PS)

- Surface water bodies: Priority substances
- Surface water bodies: Priority substances - overview

Surface water bodies: Priority substances in the 2nd River Basin Management Plans

- Surface water bodies: Priority substances in the 2nd River Basin Management Plans - causing failure
- Surface water bodies: Priority substances in the 2nd River Basin Management Plans - improving chemical status

Blue: Tables; Green: Graphs; Orange: Maps
Surface water bodies: Pressures and impacts

- Surface water bodies: Significant pressures
- Surface water bodies: Significant impacts
- Surface water bodies: Significant pressures reported as ‘Other’
- Surface water bodies: Significant impacts reported as ‘Other’

Surface water bodies: Number of different pressures

- Surface water bodies: Number of pressures, by category
- Surface water bodies: Number of pressures, by country
- Surface water bodies: Number of pressures, by category and country
- Surface water bodies: Number of pressure groups, by category
- Surface water bodies: Number of pressure groups, by country
- Surface water bodies: Number of pressure groups, by category and country

Surface water bodies: Number of different impacts

- Surface water bodies: Number of impacts, by category
- Surface water bodies: Number of impacts, by country
- Surface water bodies: Number of impacts, by category and country

Missing

- Graphs pressure groups

Groundwater bodies: Pressures and impacts

- Groundwater bodies: Significant pressures - Chart
- Groundwater bodies: Significant impacts - Chart

- Maps pressures and impacts
- Methodologies

Blue: Tables; Green: Graphs; Orange: Maps
Groundwater bodies: Status
- Groundwater bodies: Number or Size, by Quantitative status
- Groundwater bodies: Number or Size, by Geological formation and Quantitative status

Groundwater bodies: Quantitative status and chemical status
- Groundwater bodies: Quantitative status and chemical status, by geological formation
- Groundwater bodies: Quantitative status and chemical status, by country
- Groundwater bodies: Quantitative status and chemical status, by geological formation and country

Groundwater bodies: Status maps
- Groundwater bodies failing to achieve good status, by RBD
- Groundwater bodies failing to achieve good status, by country
- Groundwater bodies failing to achieve good status, by country and RBD

Groundwater bodies: Quantitative status in the 2nd and 1st RBMP
- Groundwater bodies: Quantitative status, by geological formation
- Groundwater bodies: Quantitative status, by country
- Groundwater bodies: Quantitative status, by country and geological formation

Blue: Tables; Green: Graphs; Orange: Maps
Groundwater bodies: Status assessment confidence

- Groundwater bodies: Quantitative status assessment confidence

Groundwater bodies: Quantitative status and chemical status assessment confidence

- Groundwater bodies: Quantitative status and chemical status assessment confidence, by geological formation
- Groundwater bodies: Quantitative status and chemical status assessment confidence, by country
- Groundwater bodies: Quantitative status and chemical status assessment confidence, by geological formation and country

Groundwater bodies: Expected status

- Groundwater bodies: Good quantitative status expected in 2015
- Groundwater bodies: Good quantitative status expected achievement date

Groundwater bodies: Reasons for failure

- Groundwater bodies: reasons for failure to achieve good quantitative status
- Groundwater bodies: reasons for failure to achieve good quantitative status - overview

Missing

- Groundwater bodies at risk
- Methodologies
- ?
Groundwater bodies status: Chemical status

Groundwater bodies: Status
- Groundwater bodies: Number or Size, by Chemical status
- Groundwater bodies: Number or Size, by Geological formation and Chemical status

Groundwater bodies: Quantitative status and chemical status
- Groundwater bodies: Quantitative status and chemical status, by geological formation
- Groundwater bodies: Quantitative status and chemical status, by country
- Groundwater bodies: Quantitative status and chemical status, by geological formation and country

Groundwater bodies: Status maps
- Groundwater bodies failing to achieve good status, by RBD
- Groundwater bodies failing to achieve good status, by country
- Groundwater bodies failing to achieve good status, by country and RBD

Groundwater bodies: Chemical status in the 2nd and 1st RBMP
- Groundwater water bodies: Chemical status, by geological formation
- Groundwater water bodies: Chemical status, by country
- Groundwater water bodies: Chemical status, by country and geological formation

Blue: Tables; Green: Graphs; Orange: Maps
Groundwater bodies: Status assessment confidence

- Groundwater bodies: Chemical status assessment confidence

Groundwater bodies: Quantitative status and chemical status assessment confidence

- Groundwater bodies: Quantitative status and chemical status assessment confidence, by geological formation
- Groundwater bodies: Quantitative status and chemical status assessment confidence, by country
- Groundwater bodies: Quantitative status and chemical status assessment confidence, by geological formation and country

Groundwater bodies: Expected status

- Groundwater bodies: Good chemical status expected in 2015
- Groundwater bodies: Good chemical status expected achievement date

Groundwater bodies: Reasons for failure

- Groundwater bodies: reasons for failure to achieve good chemical status
- Groundwater bodies: reasons for failure to achieve good chemical status - overview

Groundwater bodies: Pollutants

- Groundwater bodies: Pollutants
- Groundwater bodies: Pollutants - Overview
- Groundwater bodies: Pollutants - Trend reversal
- Groundwater bodies: Pollutants - Upward trend
- Groundwater bodies: Pollutants - other pollutants
Groundwater bodies: Pressures and impacts

Groundwater bodies: Significant pressures
- Overview

Groundwater bodies: Significant impacts
- Overview

Groundwater bodies: Significant pressures
- Groundwater bodies: Significant pressures reported as ‘Other’
- Groundwater bodies: Significant impacts reported as ‘Other’

Groundwater bodies: Number of different pressures

Maps pressures and impacts

Methodologies

Blue: Tables; Green: Graphs; Orange: Maps