

Welcome to the Webinar for Eionet TG Water on the draft WISE Freshwater – WFD dashboards

We will be starting at 14.00 CEST.

Please keep yourself muted unless invited to speak.

The meeting will be recorded to allow other TG members to see the presentation, if they can't join today.

During the meeting, please put questions and comments in the chat.
We will not be using “hands”.

Webinar for Eionet TG Water Draft WISE Freshwater – WFD dashboards

Silvia DallaCosta, Francesco Mundo, Fernanda Nery, Jorgen Olsen, Caroline Whalley, Nihat Zal
WISE FW - WFD Webinar / 15-04-24

European Environment Agency



Webinar outline

- Focus of this webinar is to demonstrate the draft data in WISE Freshwater - WFD from 3rd River Basin Management Plan reporting to Eionet members
- Aims are that Eionet experts will be able to explore the draft website and give feedback on what is useful and what needs clarifying
- In parallel, Member States are checking their data and reviewing the site
- Intention to record [webinar - link](#)
- TG invited to explore the site: data analytics will inform us of your interests. If you would like to comment, that is welcome, preferably by 3rd May to wise@eea.europa.eu

Agenda

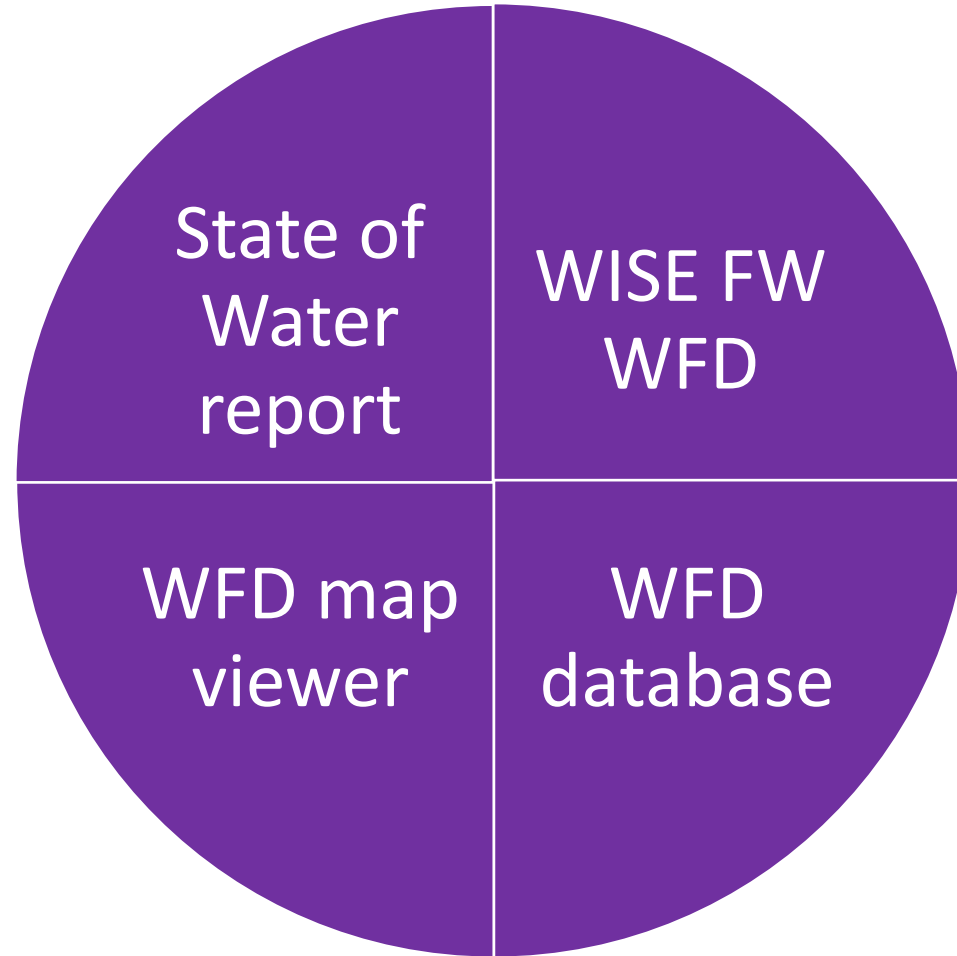
Item	Topic	EEA lead + support	Duration	Purpose
1	Introduction to webinar	Caroline, Jørgen	10mins	Get everyone oriented and into the room
2	Outline of the WISE FW – WFD site	Silvia + Caroline	10mins	Give overview of structure, experts may have specific interest in 1-2 topics
3	Overview of each of the topics	Caroline + Nihat	@5mins → 30min	Show how to drill down, demonstrate the dashboards
4	Show some dashboard functionalities; include tips and tricks Discodata	Caroline Jørgen	15mins	Give basic tools to interrogate the dashboards
5	Q+A			



Introduction (and clarifications)

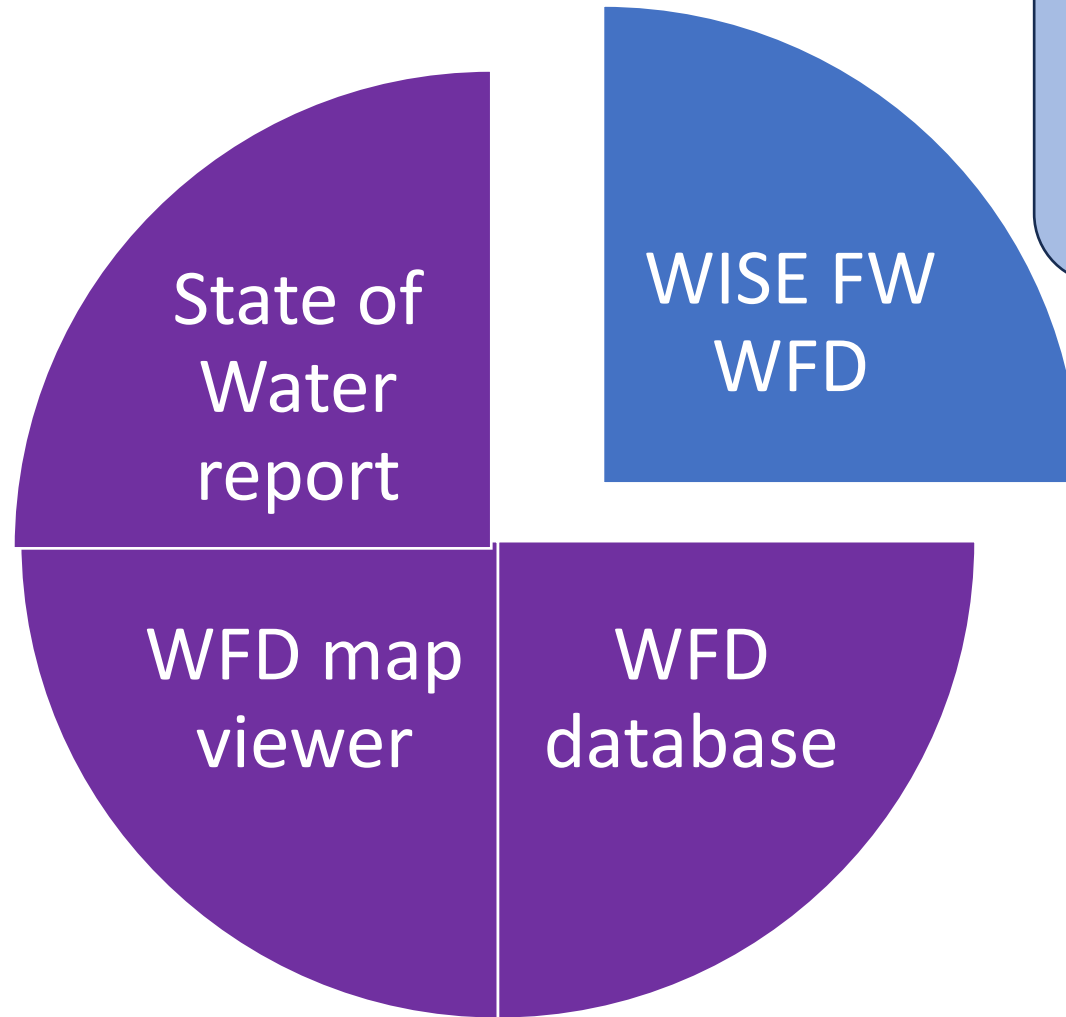
- EEA products based on electronically reported data where the plans
- Data shown are draft
- Countries included in 3rd RBMP are AT, BE, HR, CZ, DK, EE, FR, DE, IT, LV, LT, NL, PL, PT, RO, SK, ES (67,143 surface water bodies; 3,763,500 km² groundwater body area)
- Links provided to the **draft dashboards in demo** site on WISE Freshwater.
- Website is still in development: improvements e.g. to text are on-going.
- Draft dashboards – currently under Member State review
- Member States can still report 3rd RBMP results to EEA. However, results will not be shown in the dashboards until after the summer.

EEA's package of products around the 3rd RBMP reporting



State of Water consultation

- Consultation ran 12th January – 3rd February – **THANKS for your comments**
- c.400 comments from 17 countries plus the European Commission
- ETC-BE drafted the report and responses to consultation
- Lots of comments refining text, correcting inaccuracies or omissions and offering references
- Some comments wanted greater detail – not always possible in an overview report eg pesticides
- Comments on scope (broader than Water Framework Directive but doesn't discuss marine)
- Concern about one out all out which masks improvements made in underlying parameters
- Concern where updated figures weren't yet available (eg chapter 3 uPBTs)
- Comments on [WEI+ indicator](#)
- Changes made include a restructured second chapter (connectivity, restoration and wetlands); Chapter 5 has become Summary and outlook
- Final country came into the dataset 15th March



**WISE Freshwater WFD pages in preparation. Overview of RBMP results reported electronically.
Webinar 15th April for TG Water**

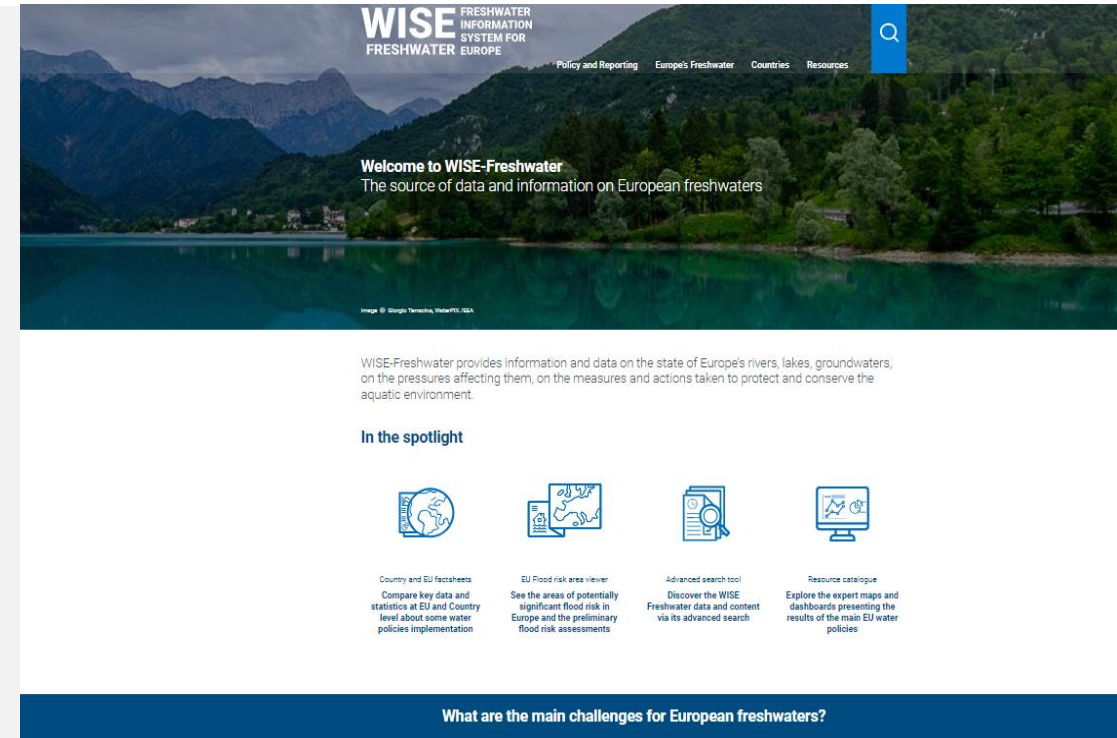


WISE Freshwater mission and objectives

“ WISE-Freshwater is a gateway for searching, accessing, retrieving and understanding data and information on the environmental status and policy assessments of the European fresh waters ”

EU reference gateway to search, access and retrieve:

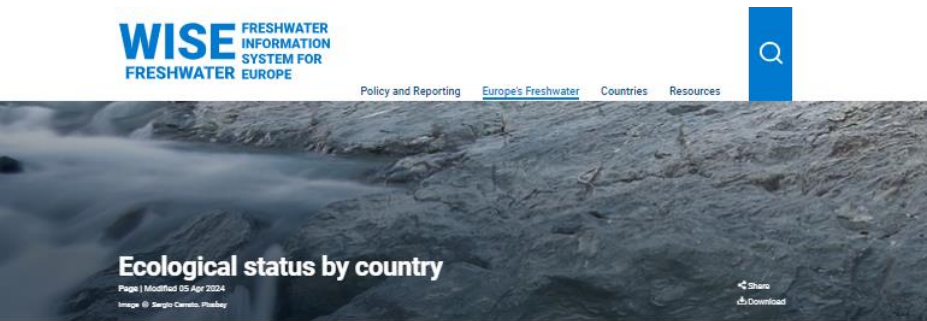
- “freshwater” data collected (mainly), in the context of the water policies /reporting obligations
- Data, information and knowledge about the status of our the fresh/ground water environment
- Results of assessments on environmental policies effectiveness



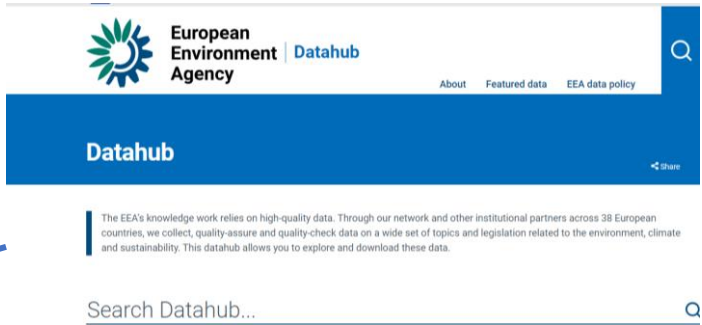
- Jointly owned and managed by EEA-EC (DG Env)
- One of the “ISEs” (Freshwater, Marine, Biodiversity, Forest) Information Systems for Europe

WISE Freshwater is

- Fully integrated with the EEA web design and part of the EEA IT and data applications



Data download via EEA Datahub

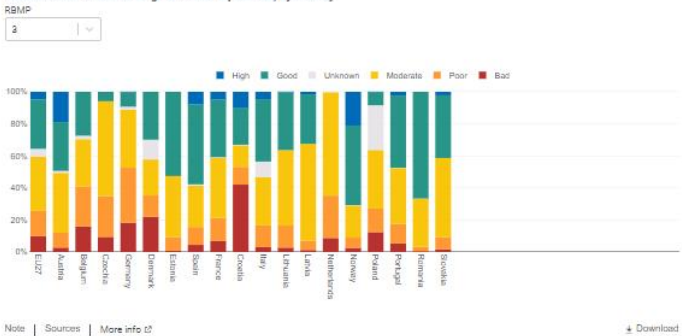


WFD entry page

Back to the main chapter

Ecological status of surface water bodies in the 1st, 2nd and 3rd River Basin management Plan, by country

Surface water bodies: Ecological status or potential, by country



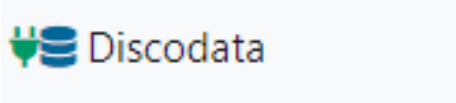
Note | Sources | More info

Download

Dive into the expert dashboard

Charts are linked to Tableau expert dashboards

Up to date - based on EEA Discodata



Database explorer

Surface water bodies: Ecological status or potential (group)

DRAFT!

Show:		Number		Number (%)		Area (km²)		Area (%)		Length (km)		Length (%)	
		Good or ...	Falling t.	Good or ...	Falling t.	Good or ...	Falling t.	Good or ...	Falling t.	Good or ...	Falling t.	Good or ...	Falling t.
Management plan (RBMP)	*	23 875	39 931	37.4%	62.6%	87 318	92 185	48.6%	51.4%	261 884	592 276	30.7%	69.3%
3rd													
	AT	4 035	4 042	50.0%	50.0%	452	71	86.4%	13.6%	13 657	18 062	43.1%	56.9%
Water body delineation	BE	153	394	28.0%	72.0%	1	214	0.3%	99.7%	3 088	6 287	32.9%	67.1%
(All)	CZ	66	1 052	5.9%	94.1%	33	235	12.3%	87.7%	708	17 441	3.9%	96.1%
	DE	902	8 650	9.4%	90.6%	1 085	11 743	8.5%	91.5%	10 485	124 739	7.8%	92.2%
Filter by:	DK	2 332	4 506	34.1%	65.9%	2 093	18 808	10.0%	90.0%	5 054	12 314	29.1%	70.9%
	EE	391	353	52.6%	47.4%	50	16 422	0.3%	99.7%	5 595	6 163	47.6%	52.4%
Ecological status (group)	ES	3 157	2 261	58.3%	41.7%	22 509	4 778	82.5%	17.5%	40 964	37 971	51.9%	48.1%
(Multiple values)	FR	4 292	6 200	40.9%	59.1%	18 279	11 245	61.9%	38.1%	76 093	147 120	34.1%	65.9%
	HR	653	1 320	33.1%	66.9%	10 189	3 960	72.0%	28.0%	5 514	13 074	29.7%	70.3%
Water body category	IT	3 381	3 631	48.2%	51.8%	14 303	5 802	71.1%	28.9%	29 013	42 209	40.7%	59.3%
(Multiple values)	LT	434	759	36.4%	63.6%	315	1 139	21.7%	78.3%	4 392	7 386	37.3%	62.7%
	LV	252	524	32.5%	67.5%	252	2 935	7.9%	92.1%	3 713	8 240	31.1%	68.9%
Water body type	NL		739		100.0%		7 811		100.0%		4 839		100.0%
(Multiple values)	PL	355	2 700	11.6%	88.4%	318	4 357	6.8%	93.2%	8 043	87 560	8.4%	91.6%
	PT	900	996	47.5%	52.5%	16 152	1 182	93.2%	6.8%	9 274	13 881	40.1%	59.9%
Filter by spatial unit:	RO	2 014	1 011	66.6%	33.4%	1 246	1 393	47.2%	52.8%	39 980	33 905	54.1%	45.9%
	SK	558	793	41.3%	58.7%	42	89	32.0%	68.0%	6 311	11 088	36.3%	63.7%
Country group													
(EU27)													
Country													
(All)													
River basin district (RBD)													
(All)													

1) River basin districts and sub-units according to the latest reported data.

2) 'Unchanged' water bodies are water bodies that have not been redelineated since first reported.

3) For river water bodies, the size value is the length (km). For other water body categories, the size value is the area (km²).

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This is a demo/test instance

Do not use it for operational purposes. All changes will be regularly overwritten.

WORK IN
PROGRESS!



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Environmental information systems ▾

WISE FRESHWATER
INFORMATION
SYSTEM FOR
FRESHWATER EUROPE



Policy and Reporting

Europe's Freshwater

Countries

Resources

Draft section for feedback

Water Framework Directive

Modified 11 Apr 2024

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This section is dedicated to the Water Framework Directive (WFD) and presents the results on the status of groundwater and surface waters in Europe - based on the third River Basin Management Plans (RBMPs) - the progress achieved between the first, second and third RBMP cycles and the main pressures still causing the failure to achieve good status. The results are derived from data reported by EU countries for the implementation of the Directive, and provide an overview at EU, Member State and River Basin District (RBD) level.

April 2024: Feedback collection on WFD draft dashboards and website

- [Link to the WFD CIS presentation](#)
- [Link to the WFD CIS recording](#)
- [Send your feedback](#)

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EUROPE



Policy and Reporting

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Draft section for feedback

Water Framework Directive

Modified 11 Apr 2024

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Surface waters ecological status

- Ecological status by Country
- Biological quality elements
- Hydromorphological quality elements
- Physicochemical quality elements
- River Basin Specific Pollutants

Surface waters chemical status

- Chemical status by country
- Priority substances causing failure to good chemical status
- Ecological and Chemical status
- Groundwater quantitative

Groundwaters quantitative status

- Quantitative status by country
- Quantitative status by geological formation
- Groundwater bodies at risk of failing to achieve good quantitative status

Groundwaters chemical status

- Chemical status by country
- Chemical status by geological formation
- Groundwater pollutants

Pressures and impacts

- Surface water significant impacts
- Groundwater significant impacts

Characterisation of water bodies

- Heavily Modified Water Bodies and Artificial Water Bodies
- Surface water bodies physical alterations



Ecological status is one of two status assessments made for surface waters under the Water Framework Directive. The other is chemical status of surface waters. Ecological status is a composite assessment of the quality of surface water ecosystems. It shows the combined impact of pressures such as pollution, habitat degradation and climate change.

Ecological status of surface waters in the 3rd River Basin Management Plan

In Europe (EU27) **around 40%** of the surface water bodies are currently reported (2022) in good or high ecological status, with lakes and coastal waters having better status than rivers and transitional waters.

Country

EU27

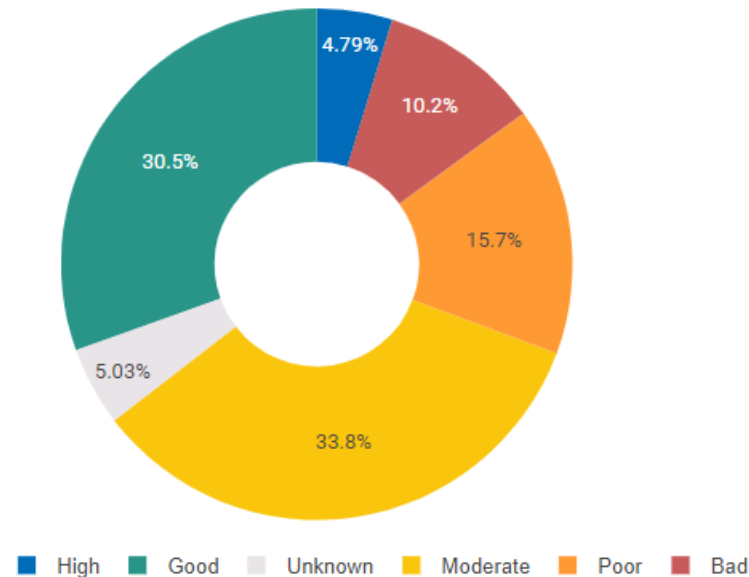


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Hydromorphological quality elements

Physicochemical quality elements

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Pressures and impacts

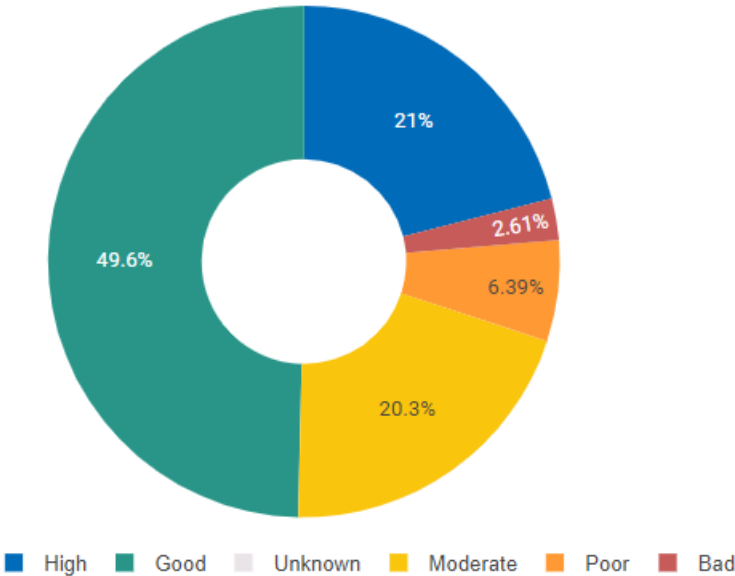
Characterisation of water bodies

Ecological status of surface waters in the 3rd River Basin Management Plan

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Country

Norway



Note | Sources | More info ↗

Dive into the expert dashboard →

Biological quality elements

Hydromorphological quality elements

Physicochemical quality elements

River Basin Specific Pollutants

Surface water chemical status ▼

Groundwater quantitative status ▼

Groundwater chemical status ▼

Pressures and impacts ▼

Characterisation of water bodies ▼

[surface-water-bodies-ecological-status-or-potential-by-category-chart](#)

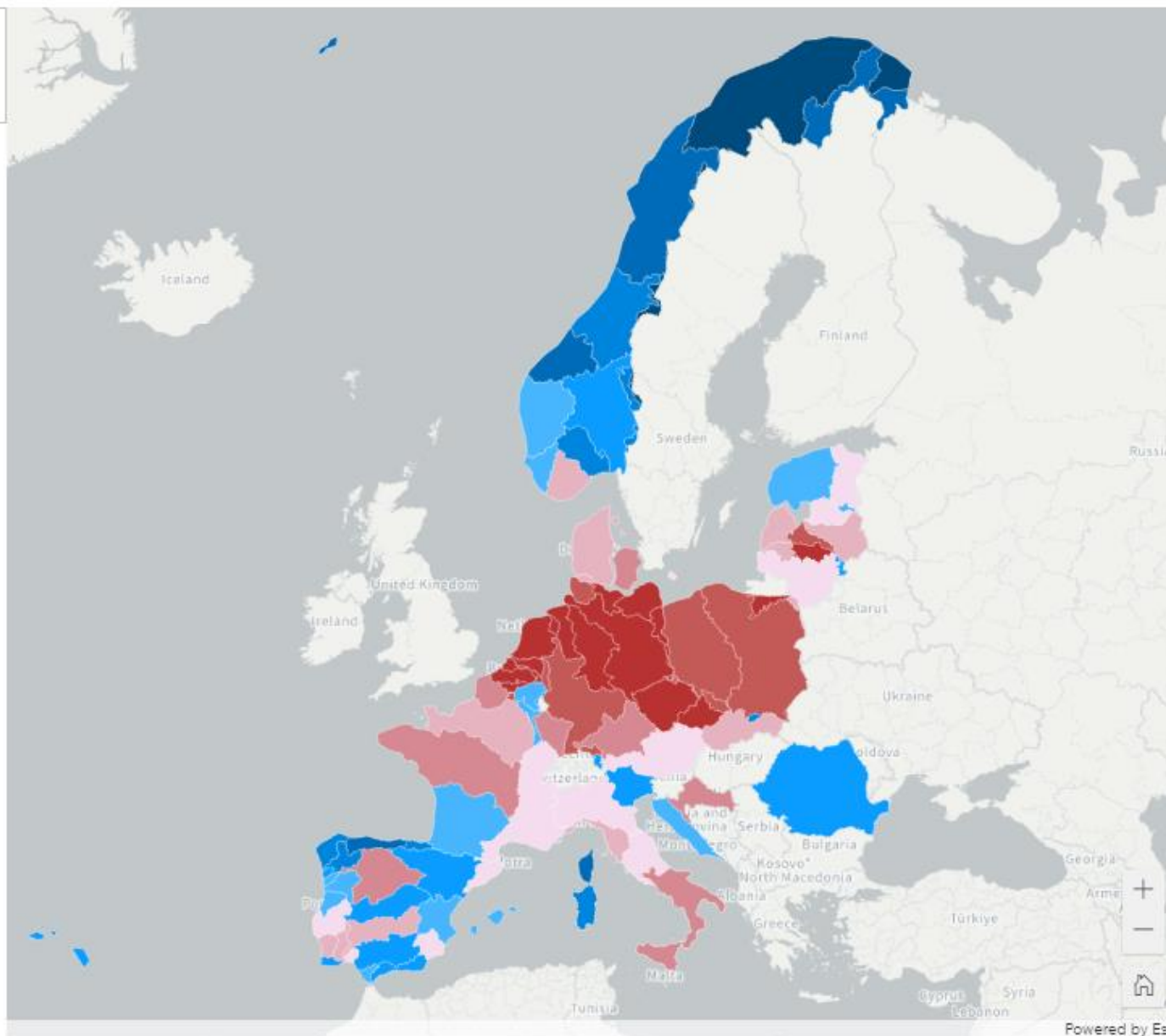
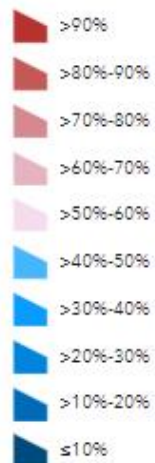
: Agency



RBMP
3rd RBMP

WFD status by RBD

Surface water bodies
failing good ecological
status



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Note | Sources | More info

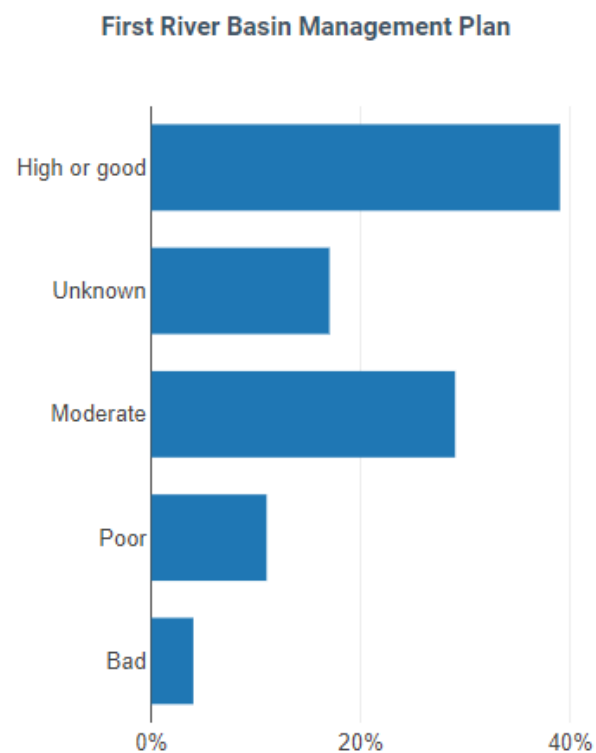
Dive into the expert dashboard →

Surface water bodies
achieving or failing to
achieve a good
ecological status
1sr, 2nd and 3rd RBMP

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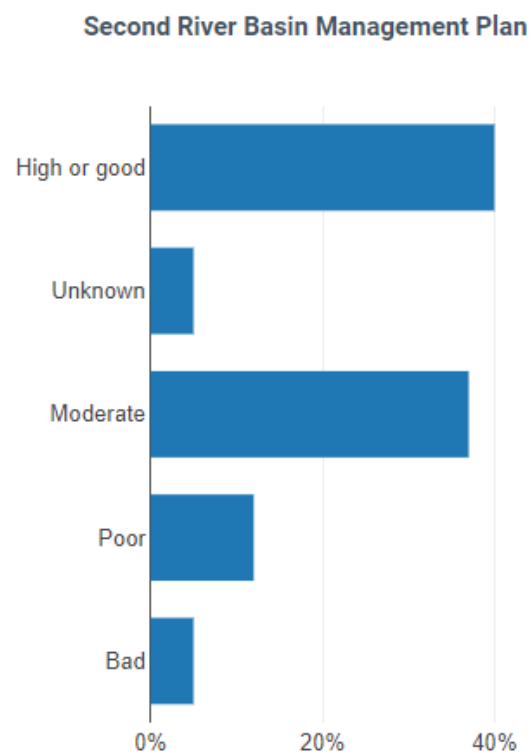


Changes in surface waters ecological status between River Basin Management Plan cycles in EU 27

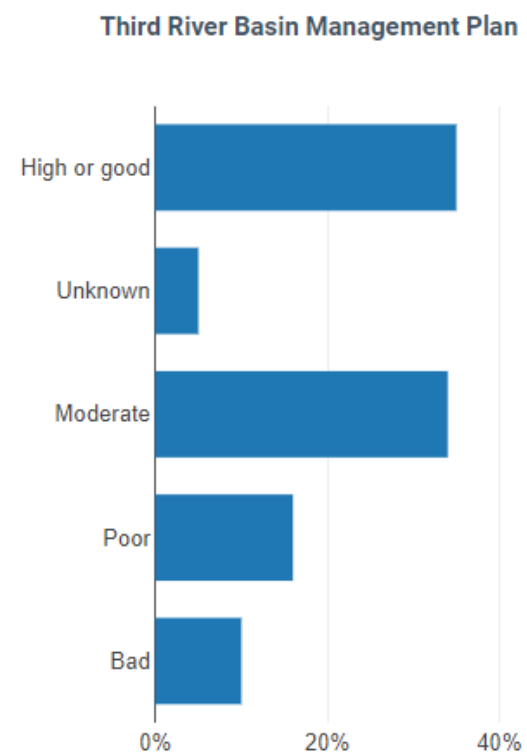


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Ecological status by RBMP

The chart of the 3rd River Basin Management Plans shows the data of Countries that so far have reported electronically to the EEA for this third cycle and included in the "EU 27": Austria, Belgium, Croatia, Czechia, Denmark, Estonia, France, Germany, Italy, Latvia, Lithuania, Netherlands, Poland, Portugal, Romania, Slovakia, Spain. Norway has also reported.



Show:

Measure

Number

Water body delineation

(All)

Filter by:

Water body category

(Multiple values)

Water body type

(Multiple values)

Filter by spatial unit:

Country group

EU27

Country

(All)

River basin district (RBD)

(All)

Sub-unit

(All)

■ reporting countries.

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The chart of the 3rd River Basin Management Plans shows the data of Countries that so far have reported electronically to the EEA for this third cycle and included in the "EU 27": Austria, Belgium, Croatia, Czechia, Denmark, Estonia, France, Germany, Italy, Latvia, Lithuania, Netherlands, Poland, Portugal, Romania, Slovakia, Spain. Norway has also reported.

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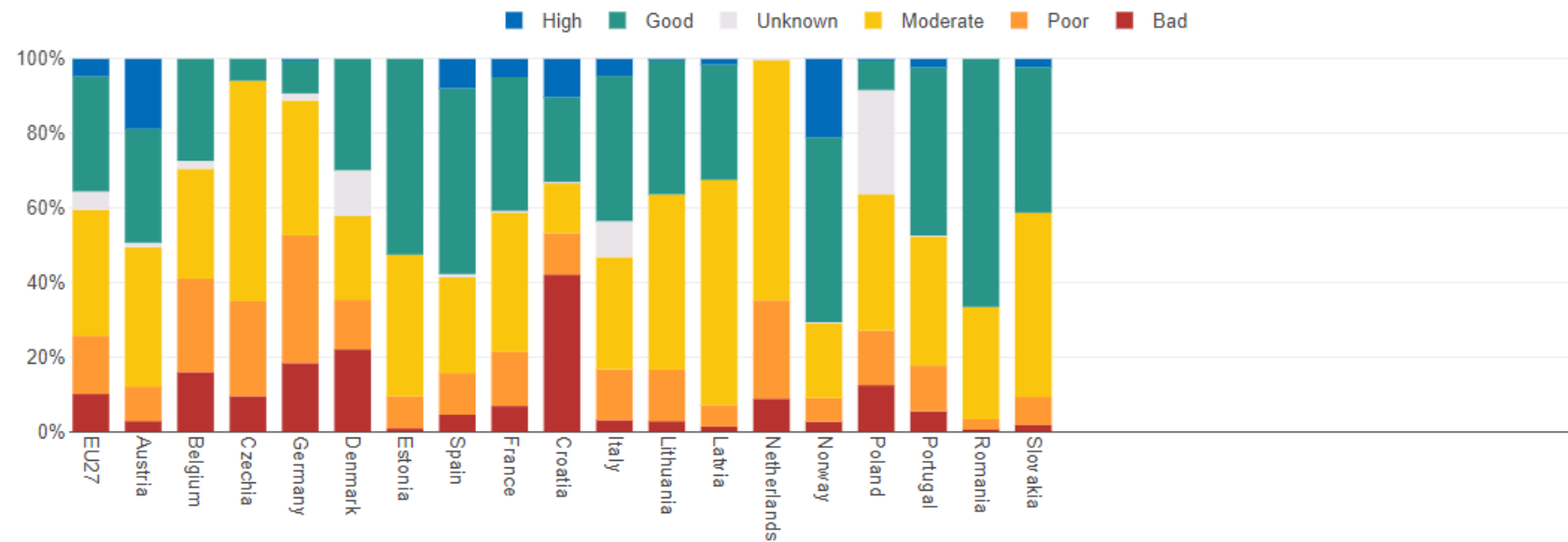
→ [Chemical status by country](#)

→ [Quantitative status by country](#)

Surface water bodies: Ecological status or potential, by country

RBMP

3



[ecological-status-by-country](#)

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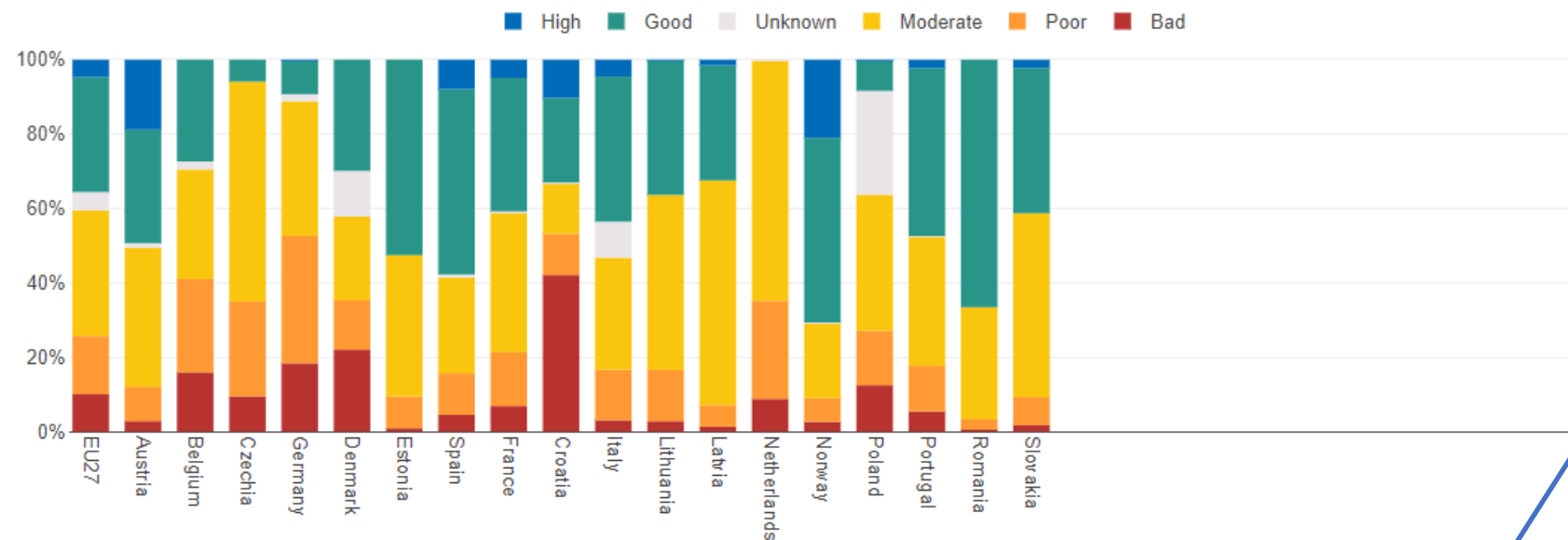
→ [Chemical status by country](#)

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Surface water bodies: Ecological status or potential, by country

RBMP

3



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Data formats

CSV

Image formats

SVG | PNG

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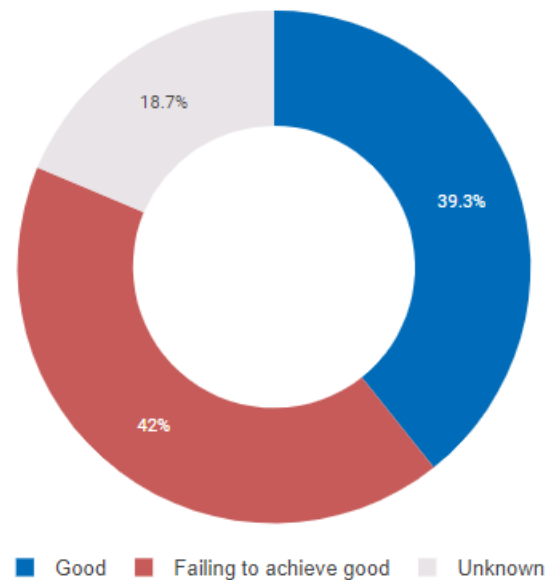
The chemical status is one of two status assessments made for surface waters under the Water Framework Directive. The other is ecological status of surface waters.

Chemical status of surface water bodies in the 3rd River Basin Management Plan

At the European level, **39.3%** of surface water bodies are in good chemical status.

Country

EU27



Note | Sources | More info [↗](#)

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[surface-water-chemical-status](#)

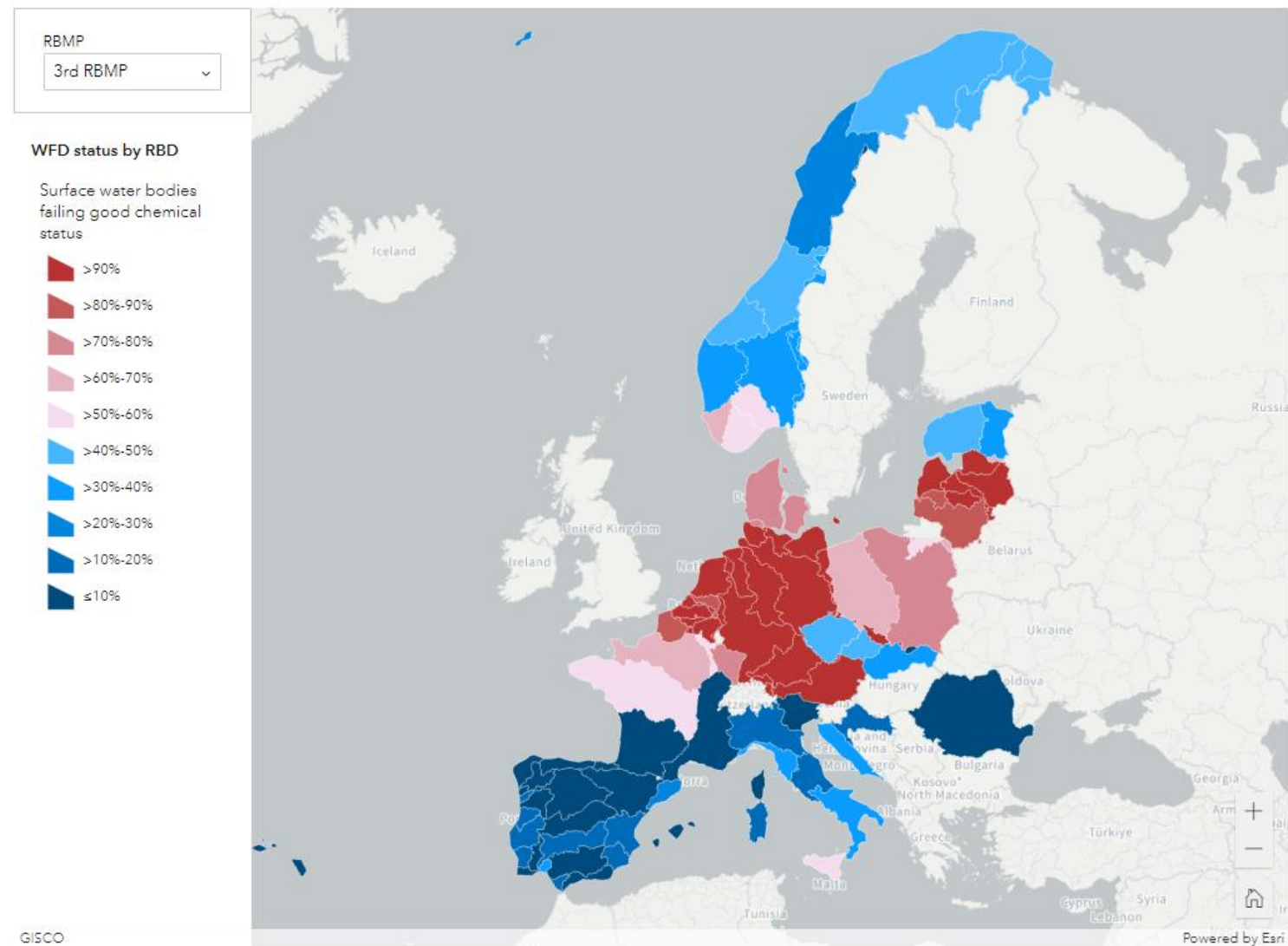
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Surface water bodies achieving or failing to achieve a good chemical status

The map shows at River Basin District level the percentage of surface water bodies achieving or failing to achieve a good chemical status in the 1st, 2nd and 3rd River Basin Management Plan.

With uPBT without uPBT



GISCO

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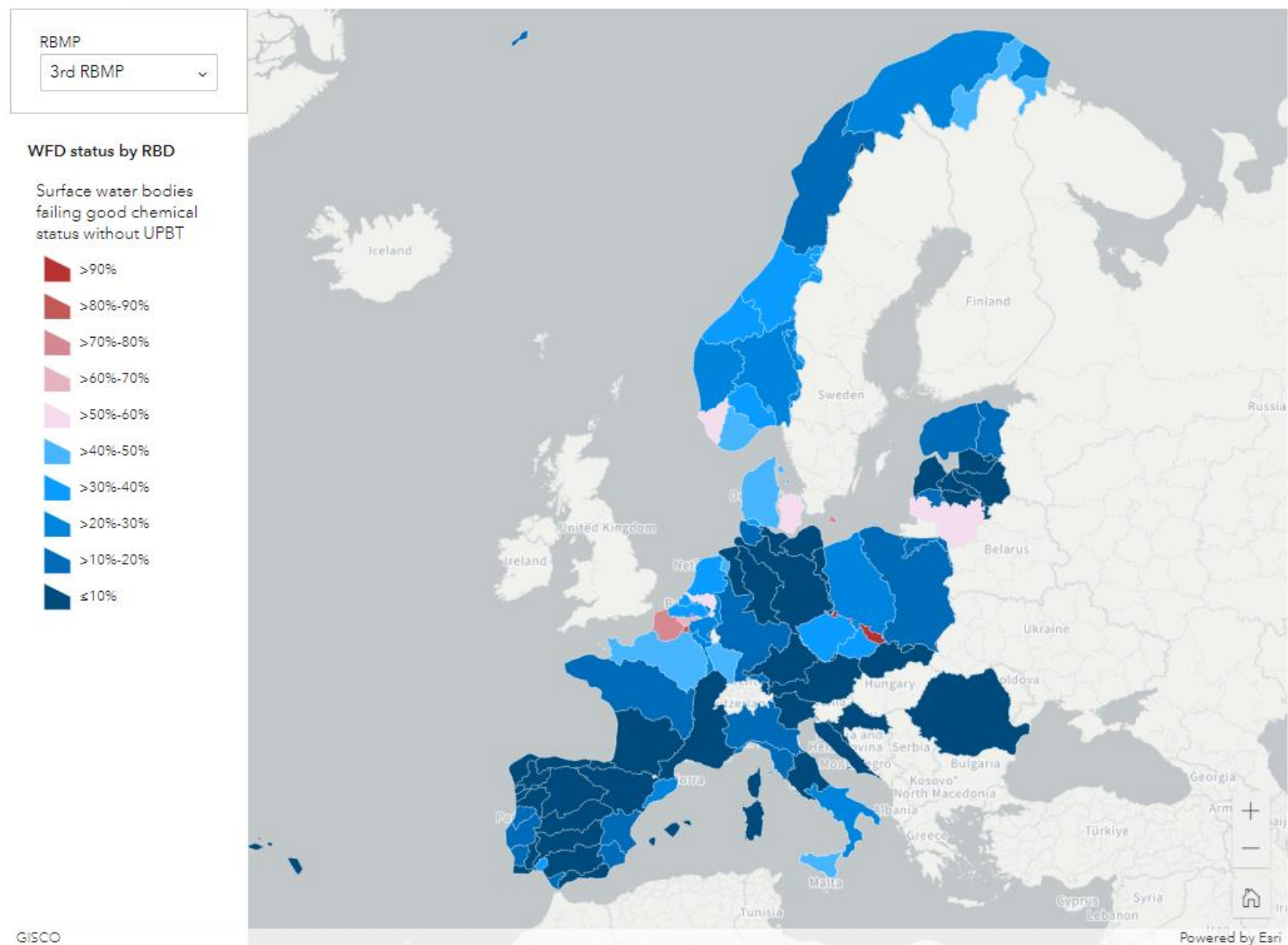
Note | Sources | More info

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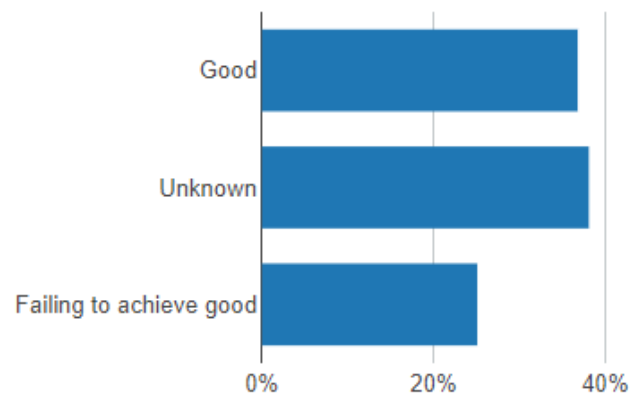


With uPBT without uPBT



Differences in surface water bodies chemical status between River Basin Management Plan cycles in EU 27

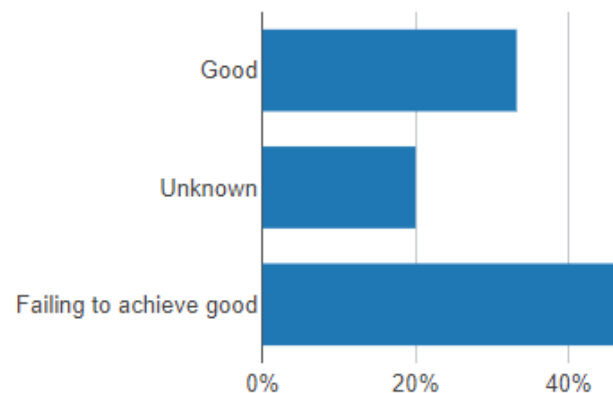
1st River Basin Management Plan



Sources | [More info](#)

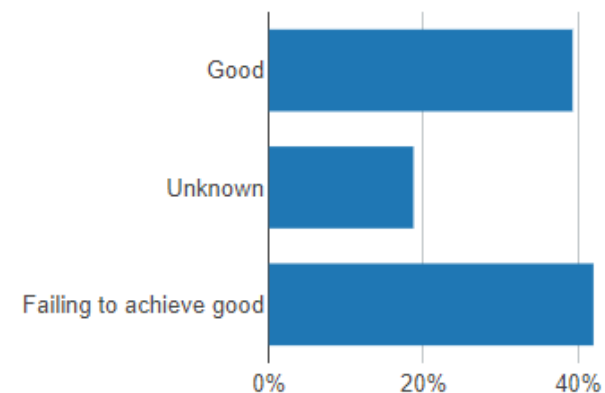
[Dive into the expert dashboard](#) →

2nd River Basin Management Plan



Sources | [More info](#)

3rd River Basin Management Plan



Note | Sources | [More info](#)



Show:

Measure
Number

Water body delineation
(All)

Filter by:

Water body category
(Multiple values)

Water body type
(Multiple values)

Filter by spatial unit:

Country group
EU27

Country name
(All)

River basin district (RBD)
(All)

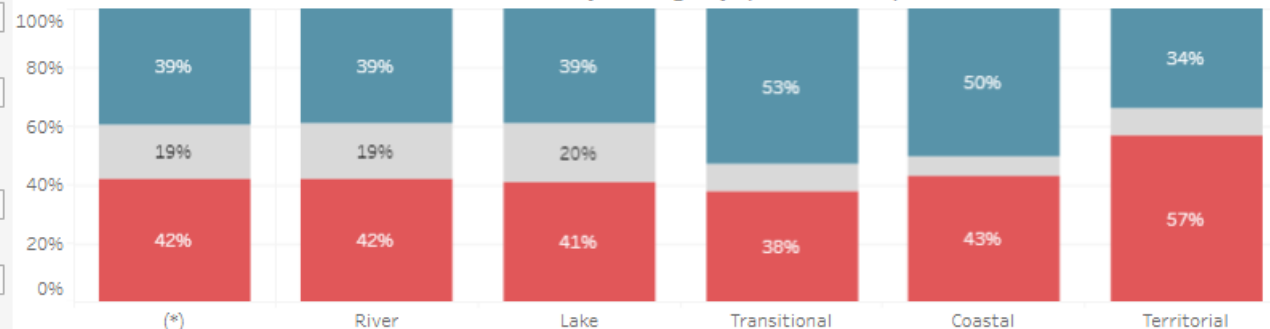
Sub-unit
(All)

Chemical status

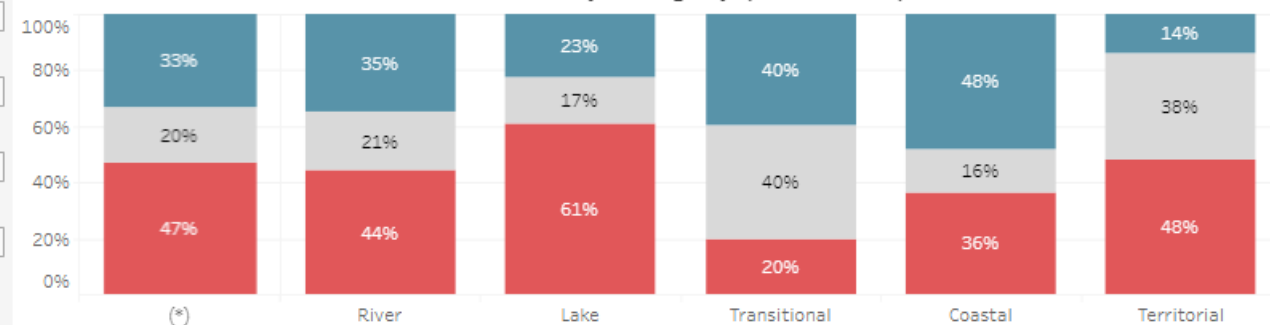
- Good
- Unknown
- Failing to achieve good

DRAFT!

Surface water bodies: Chemical status, by category (3rd RBMP)



Surface water bodies: Chemical status, by category (2nd RBMP)



Surface water bodies: Chemical status, by category (1st RBMP)

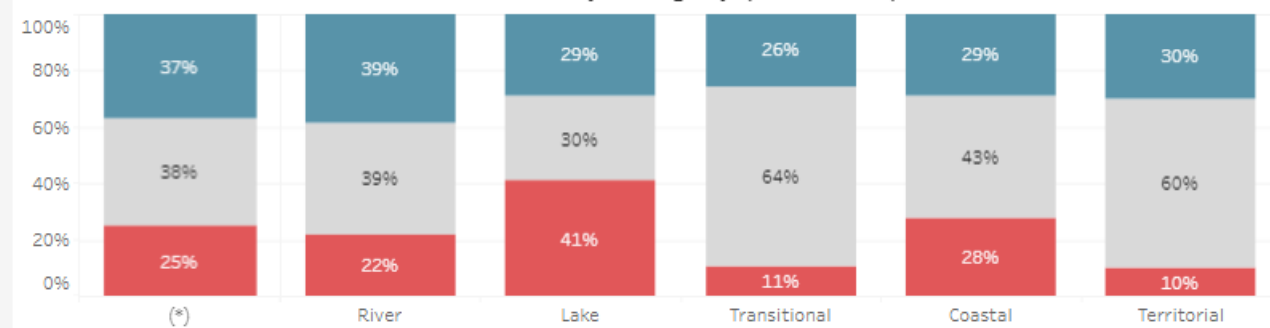


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Surface waters ecological status



Surface waters chemical status



Chemical status by country

Priority substances causing failure to good chemical status

Ecological and Chemical status

Groundwater quantitative status



Groundwaters chemical status



Pressures and impacts



Characterisation of water bodies



[priority-substances-causing-failure-to-good-chemical-status](#)

Active filters [clear all](#)



Country: EU 27 Countries

River Basin Management Plan: 3rd River Basin Management Plan

Substance



Country (1)



River Basin Management Plan (1)



Priority substance	Countries	Number of water bodies	Number of water body category
Mercury and its compounds	16	21510	5
Brominated diphenylethers (congener numbers 28, 47, 99, 100, 153 and 154)	15	21472	5
Benzo(a)pyrene	14	5249	5
Fluoranthene	14	2337	4
Heptachlor and heptachlor epoxide	11	2117	5
Benzo(g,h,i)perylene	13	2075	5
Perfluorooctane sulfonic acid (PFOS) and its derivatives	15	1701	5
Benzo(b)fluoranthene	12	1502	5
Cadmium and its compounds	14	787	5
Lead and its compounds	15	719	5

1 2 3 4 5 > >>

[Expert dashboard - surface-water-bodies-priority-substances](#)

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- Groundwater bodies at risk of failing to achieve good quantitative status

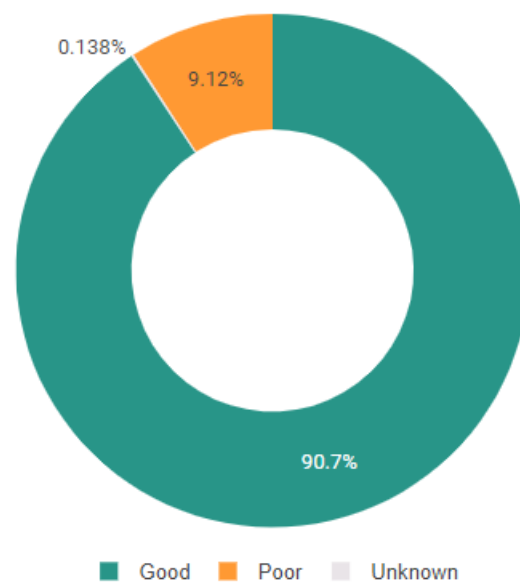


Groundwater quantitative status is one of two assessments made for groundwater under the Water Framework Directive. The other assessment is chemical status of groundwater.

Quantitative status of groundwater bodies in the 3rd River Basin Management Plan

Country

EU27



[Note](#) | [Sources](#) | [More info](#)

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Quantitative status by country

Quantitative status by geological formation

Groundwater bodies at risk of failing to achieve good quantitative status

[Groundwaters chemical status](#) ▼

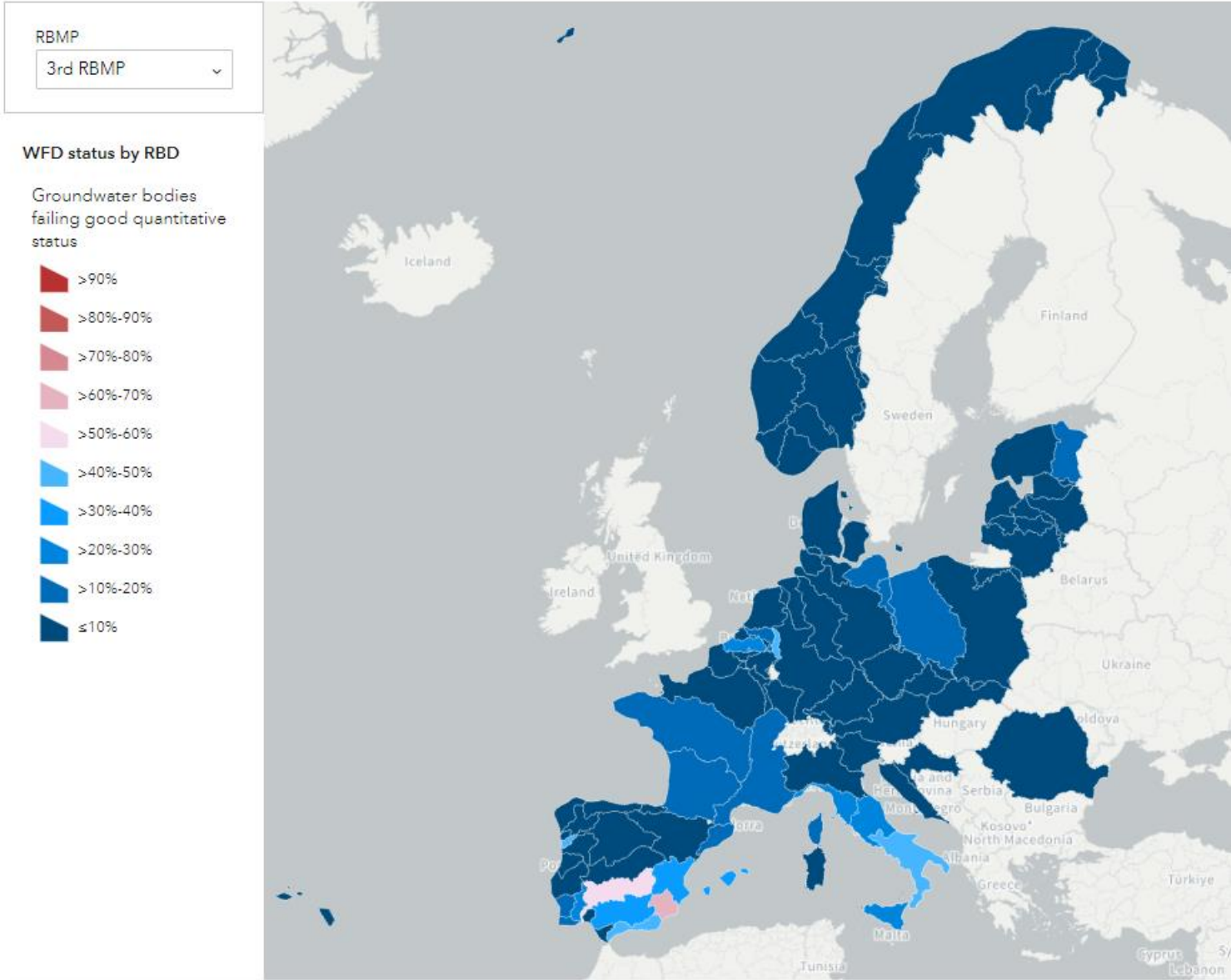
[Pressures and impacts](#) ▼

[Characterisation of water bodies](#) ▼

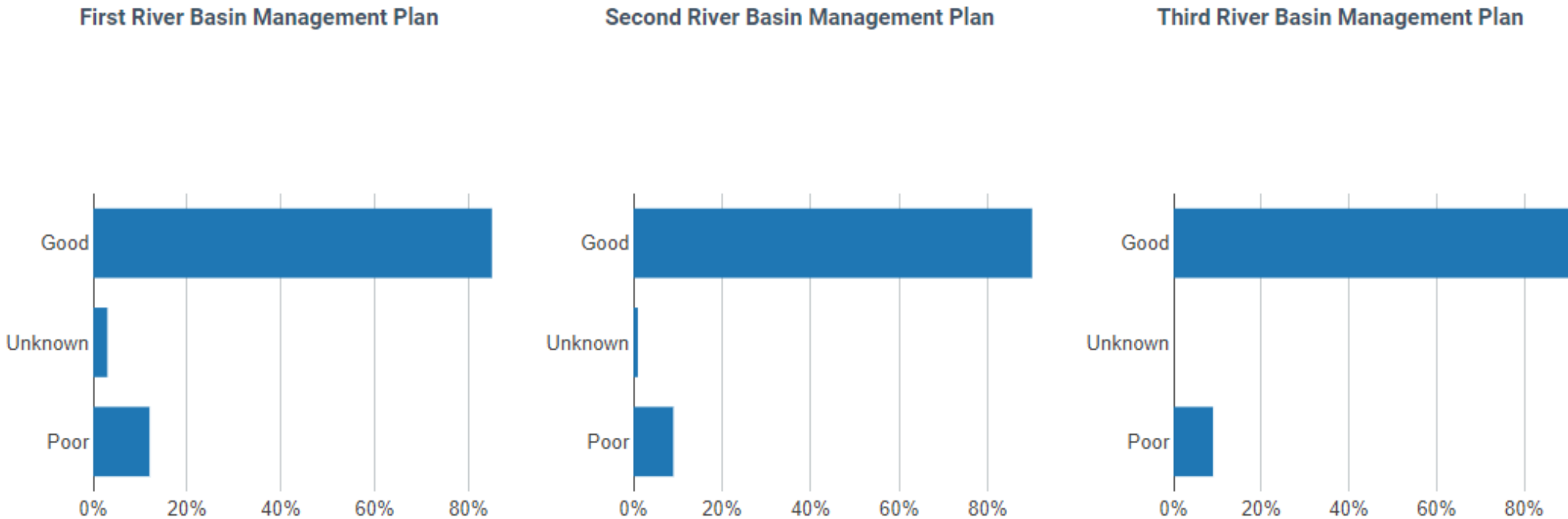


Groundwater bodies achieving or failing to achieve a good quantitative status

The map shows at River Basin District level the percentage of groundwater bodies achieving or failing to achieve good quantitative status in 3rd River Basin Management Plan.



Differences in groundwater bodies quantitative status between River Basin Management Plan cycles in EU 27



Show:

Measure
Area (km²)

Water body delineation
(All)

Filter by:

Aquifer type
(All)

Aquifer productivity
(All)

Filter by spatial unit:

Country group
EU27

Country
(All)

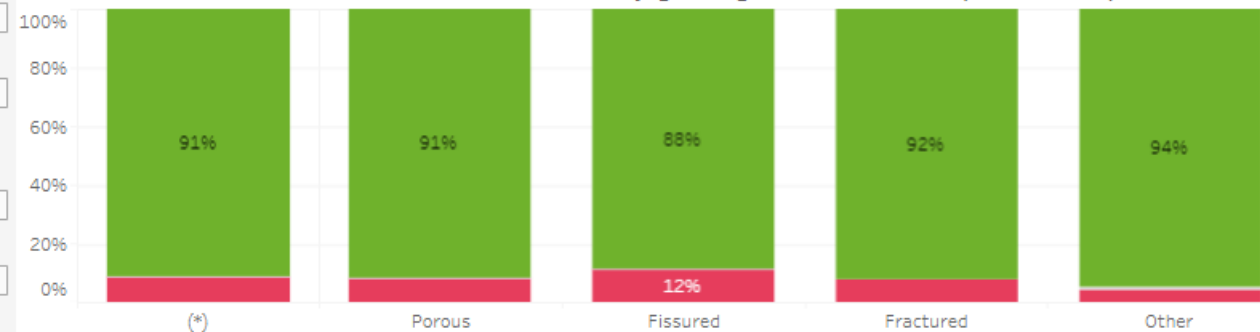
River basin district (RBD)
(All)

Quantitative status

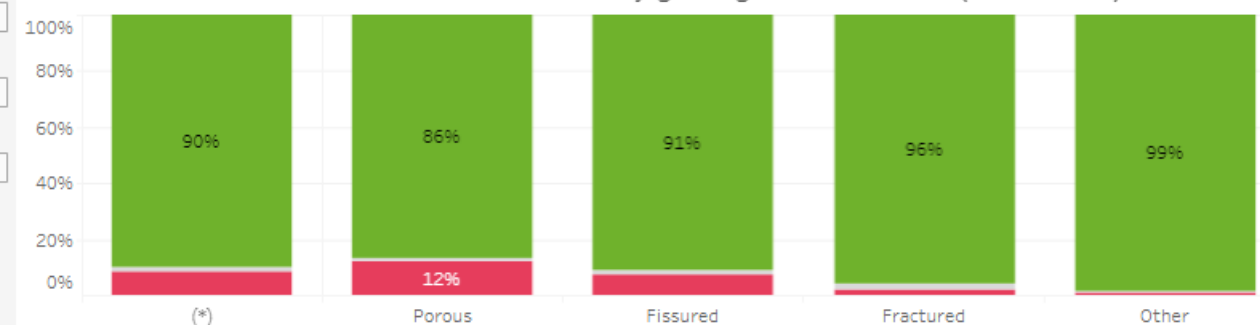
- Good
- Unknown
- Poor

DRAFT!

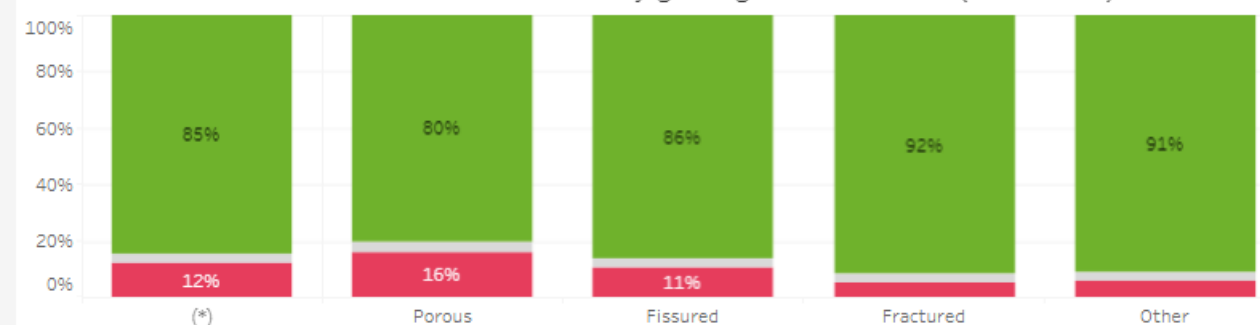
Groundwater bodies: Quantitative status, by geological formation (3rd RBMP)



Groundwater bodies: Quantitative status, by geological formation (2nd RBMP)



Groundwater bodies: Quantitative status, by geological formation (1st RBMP)



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Environment Agency



[groundwater-bodies-quantitative-status-or-potential-3rd-2nd-and-1st-rbmp](#)

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Surface waters chemical status

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- [Priority substances causing failure to good chemical status](#)
- [Ecological status by country](#)

Groundwaters quantitative status

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- [Quantitative status by geological formation](#)

Quantitative status of European groundwater bodies, by geological formation and aquifer productivity in the 1st, 2nd and 3rd River Basin Management Plans.

RBMP

3



Surface waters ecological status

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- Chemical status by geological formation
- [Groundwater pollutants](#)

Pressures and impacts

- [Surface water significant impacts](#)
- [Groundwater significant impacts](#)

Characterisation of water bodies

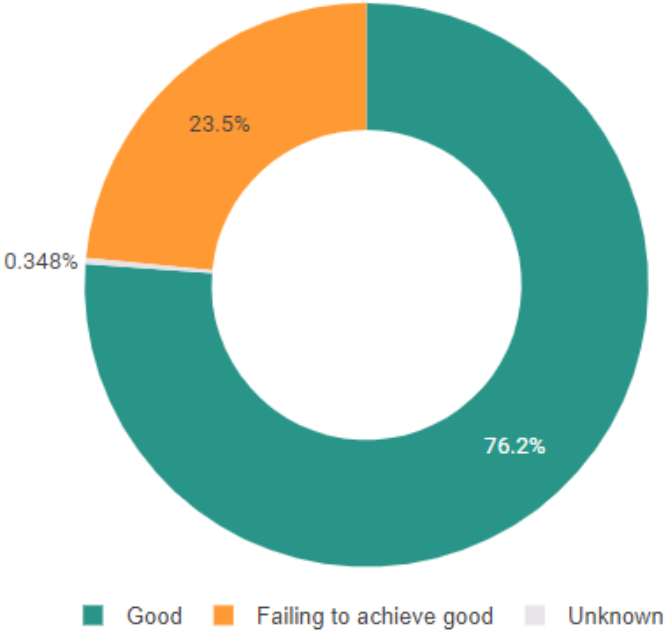
- [Heavily Modified Water Bodies and Artificial Water Bodies](#)
- Surface water bodies physical alterations



Chemical status of groundwater bodies in the 3rd River Basin Management Plan

Country

EU27 | ▾



Note | Sources | More info [↗](#)

Dive into the expert dashboard →

[Send your feedback →](#)

Show:

Management plan (RBMP)
3rd

Measure
Area (km²)

Water body delineation
(All)

Filter by:

Aquifer type
(All)

Aquifer productivity
(All)

Filter by spatial unit:

Country group
EU27

Country
(All)

River basin district (RBD)
(All)

Quantitative status

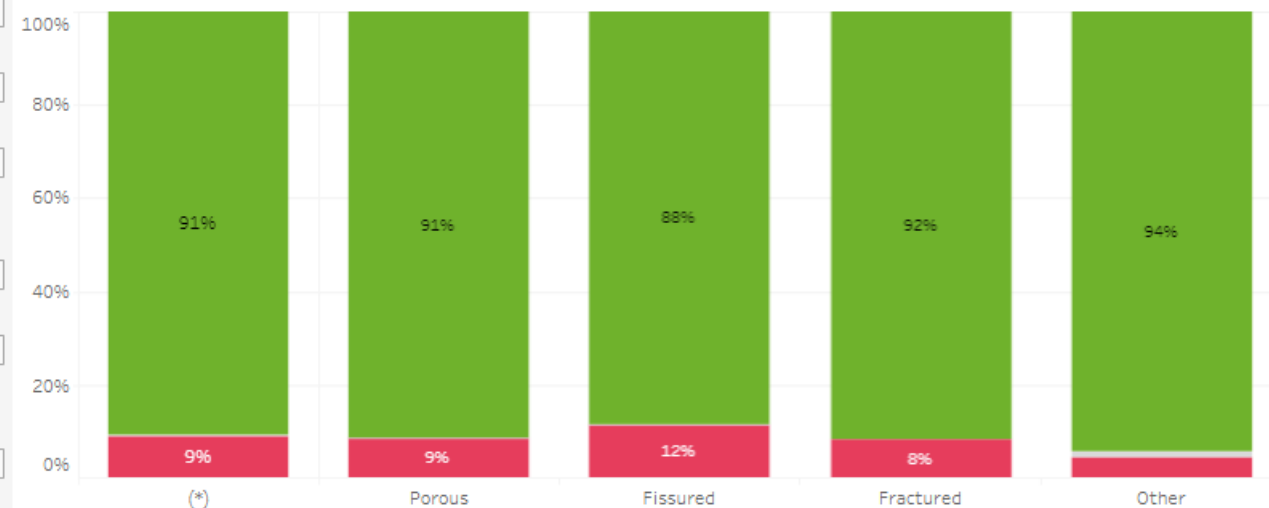
- Good
- Unknown
- Poor

Chemical status

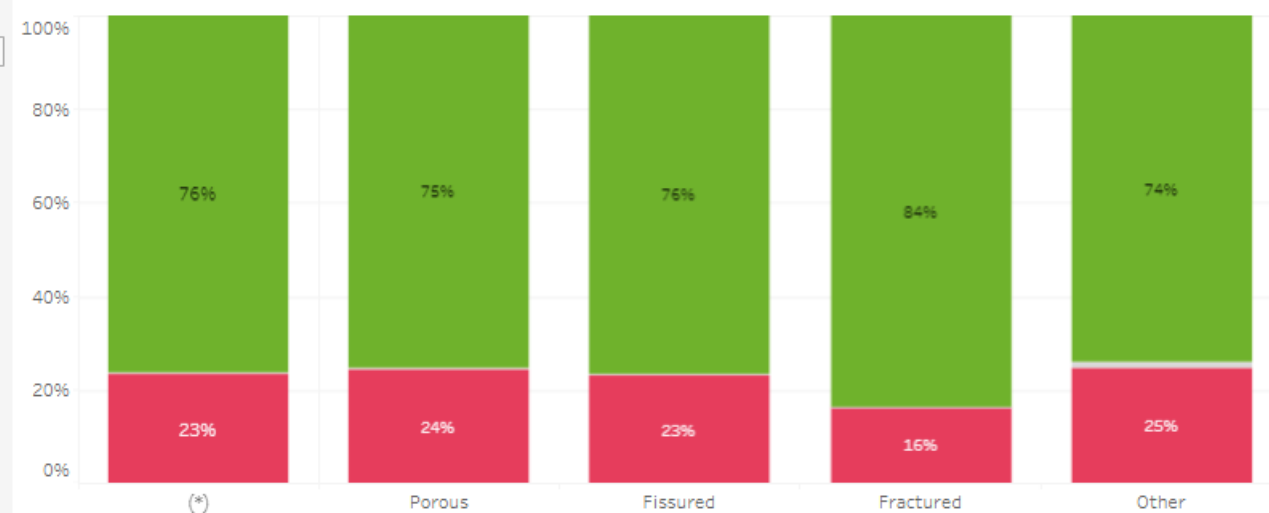
- Good
- Unknown
- Failing to achieve good

DRAFT!

Groundwater bodies: Quantitative status, by geological formation



Groundwater bodies: Chemical status, by geological formation



Send your feedback →

Feedback opens into an email...

Groundwater bodies: quantitative and chemical status, by geological formation [chart] - Message (...)

File Message Insert Draw Options Format Text Review Help

Paste Basic Text Names Include Loop Components Tags Dictate All Apps Sensitivity Editor Immersive Reader New Scheduling Poll

Clipboard Collaborate Voice Apps Sensitivity Editor Immersive Find Time

Send

To [WISE](#)

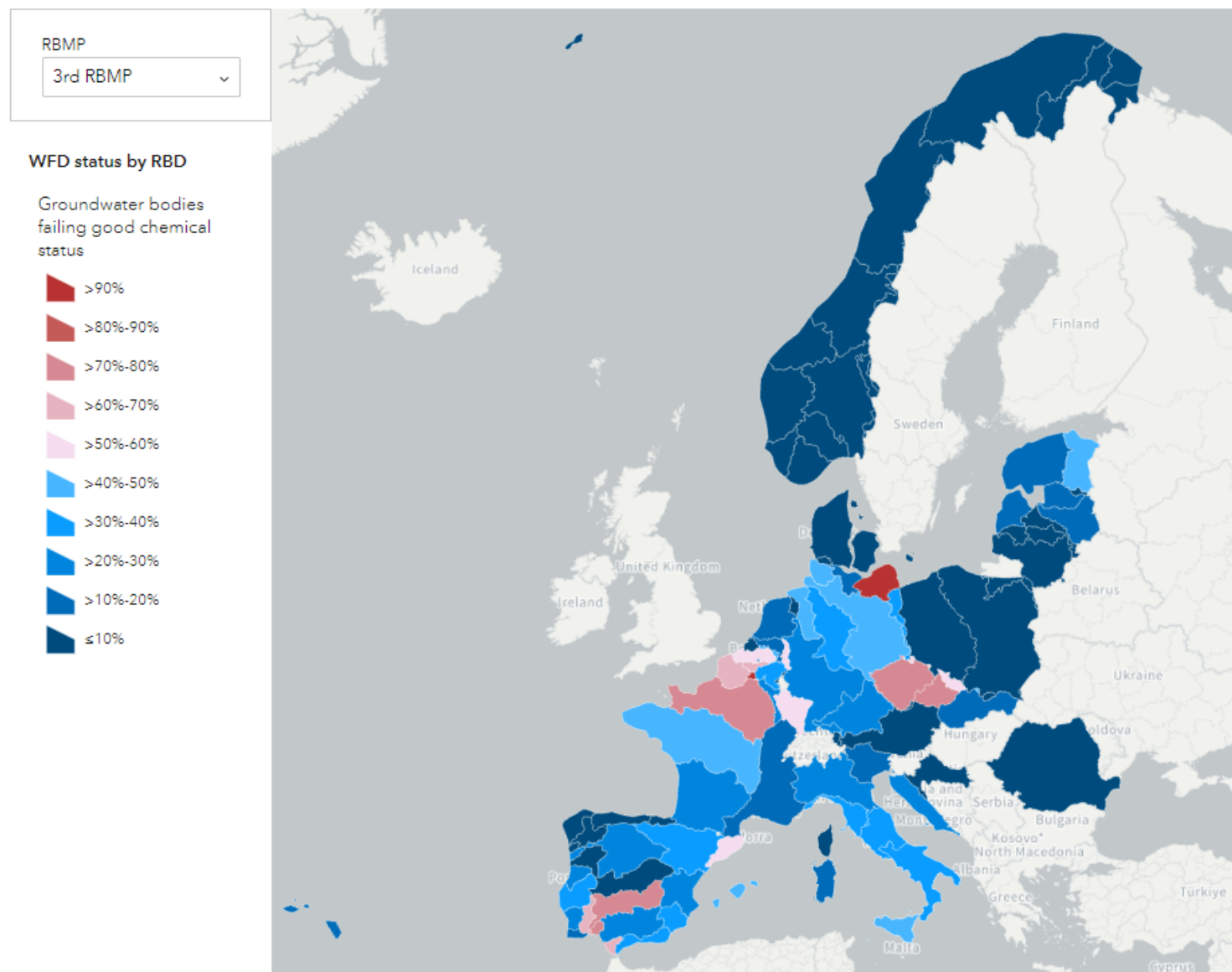
Cc

Subject Groundwater bodies: quantitative and chemical status, by geological formation [chart]



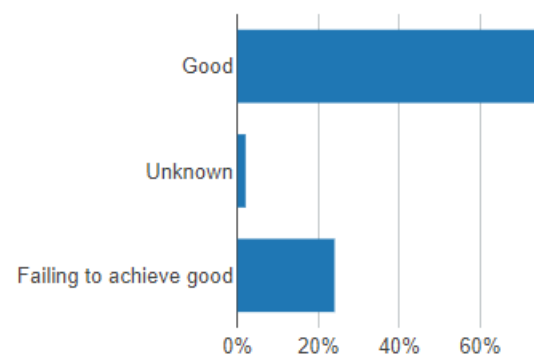
Groundwater bodies achieving or failing to achieve a good chemical status

The map shows at River Basin District level the percentage of groundwater bodies achieving or failing to achieve good chemical status in the River Basin Management Plan.



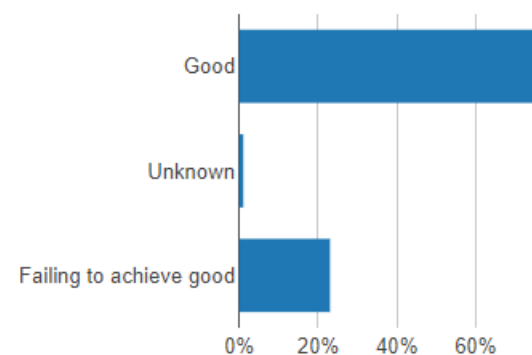
Differences in groundwater bodies chemical status between River Basin Management Plan cycles in EU 27

First River Basin Management Plan



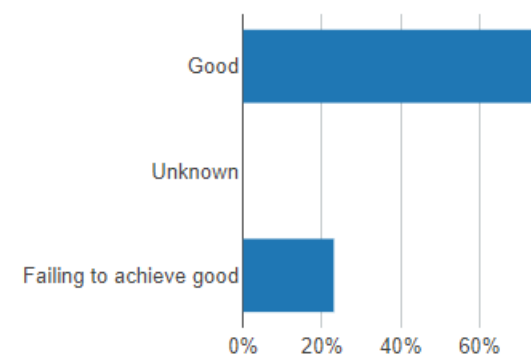
Sources | [More info](#)

Second River Basin Management Plan



Sources | [More info](#)

Third River Basin Management Plan



Note | Sources | [More info](#)

[Dive into the expert dashboard](#) →



Show:

Measure
Area (km²)

Water body delineation
(All)

Filter by:

Aquifer type
(All)

Aquifer productivity
(All)

Filter by spatial unit:

Country group
EU27

Country
(All)

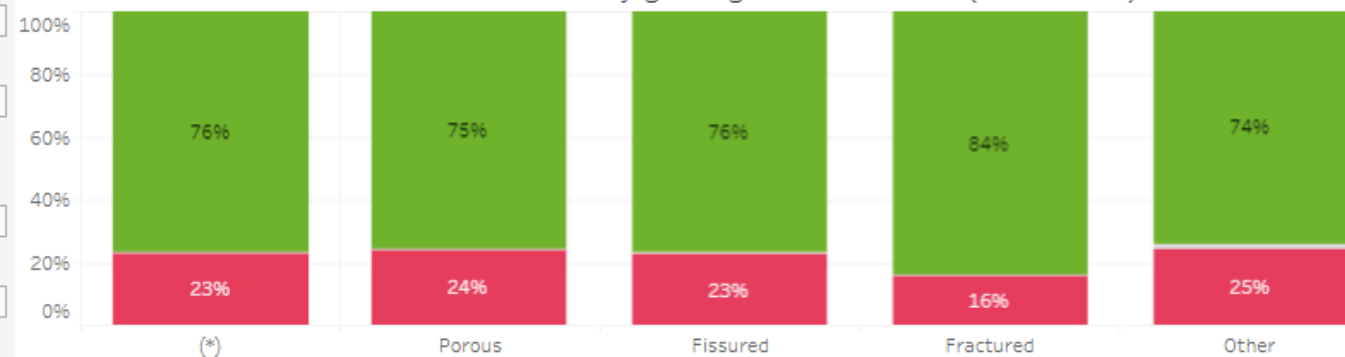
River basin district (RBD)
(All)

Chemical status

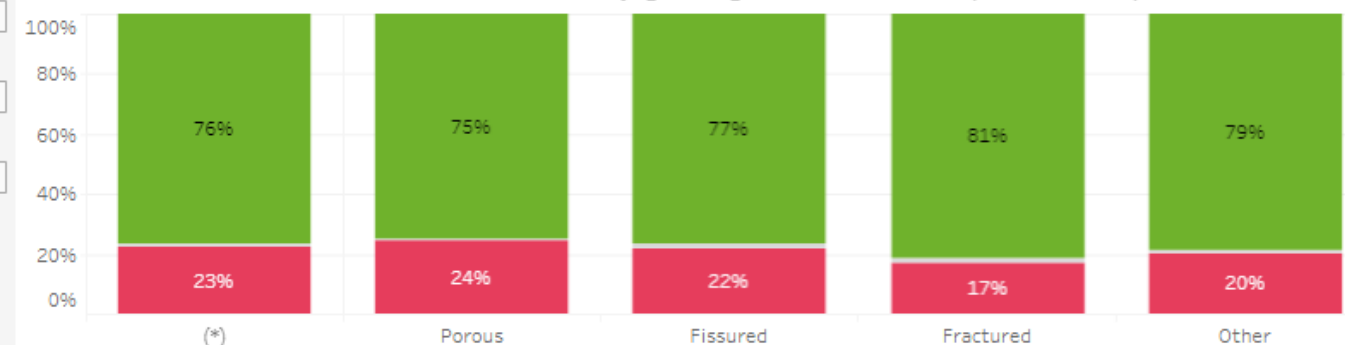
- Good
- Unknown
- Failing to achieve good

DRAFT!

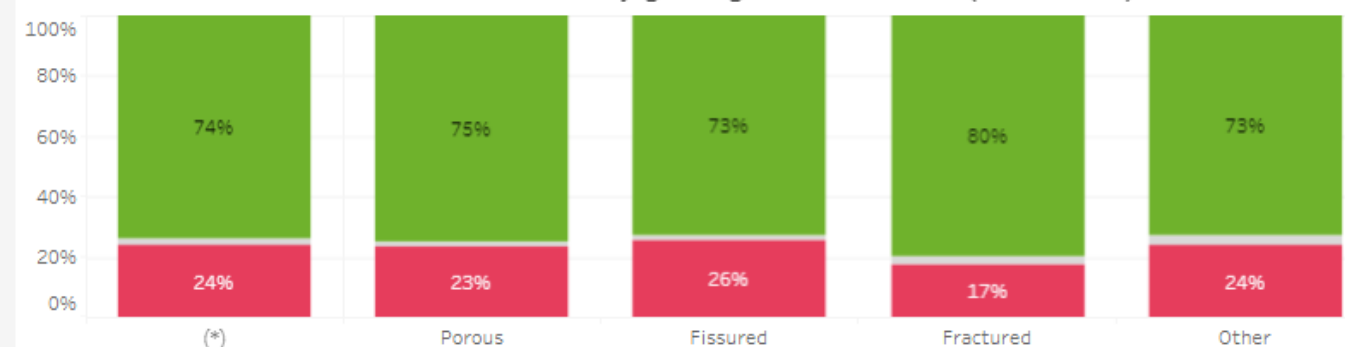
Groundwater bodies: Chemical status, by geological formation (3rd RBMP)



Groundwater bodies: Chemical status, by geological formation (2nd RBMP)



Groundwater bodies: Chemical status, by geological formation (1st RBMP)



<u>Surface waters ecological status</u>	<u>Surface waters chemical status</u>	<u>Groundwaters quantitative status</u>
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→ Physicochemical quality elements		
→ River Basin Specific Pollutants		
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→ Chemical status by country	→ Surface water significant impacts	→ Heavily Modified Water Bodies and Artificial Water Bodies
→ Chemical status by geological formation	→ Groundwater significant impacts	→ Surface water bodies physical alterations
→ Groundwater pollutants		



Active filters [clear all](#)

Country: EU 27 Countries

River Basin Management Plan: 3rd River Basin Management Plan

Substance

Country (1)

River Basin Management Plan (1)

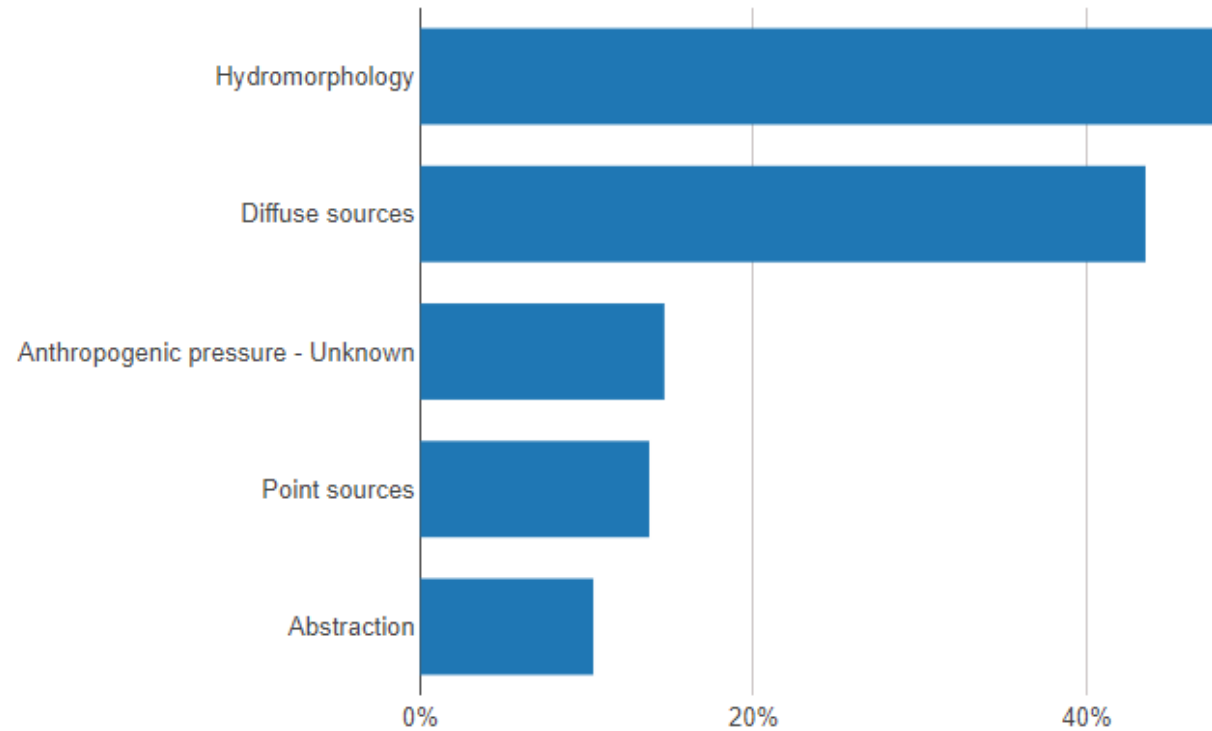
Pollutant	Countries	Number of water bodies
Nitrate	14	898
Pesticides (Active substances in pesticides, including their relevant metabolites, degradation and reaction products)	10	524
Other parameter	5	227
Chloride	13	223
Ammonium	10	206
Chloridazon desphenyl	4	201
Sulphate	10	184
Electrical conductivity	8	118
2,6-dichlorobenzamide	3	105
Chloridazon methyl desphenyl	3	91

[groundwater-pollutants](#)

<u>Surface waters ecological status</u>	<u>Surface waters chemical status</u>	<u>Groundwaters quantitative status</u>
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Top five surface water bodies pressures at EU27 level, 3rd River Basin Management Plan



Note | Sources | More info [↗](#)

[Dive into the expert dashboard →](#)



Surface water bodies: Significant pressures

Show:

Management plan (RBMP)

3rd

Water body delineation

(All)

Filter by:

Countries reporting

1 30

Pressure type group

(Multiple values)

Pressure type

(All)

Water body category

(Multiple values)

Water body type

(Multiple values)

Ecological status

(Multiple values)

Chemical status

(Multiple values)

Filter by spatial unit:

Country group

EU27

Country

(All)

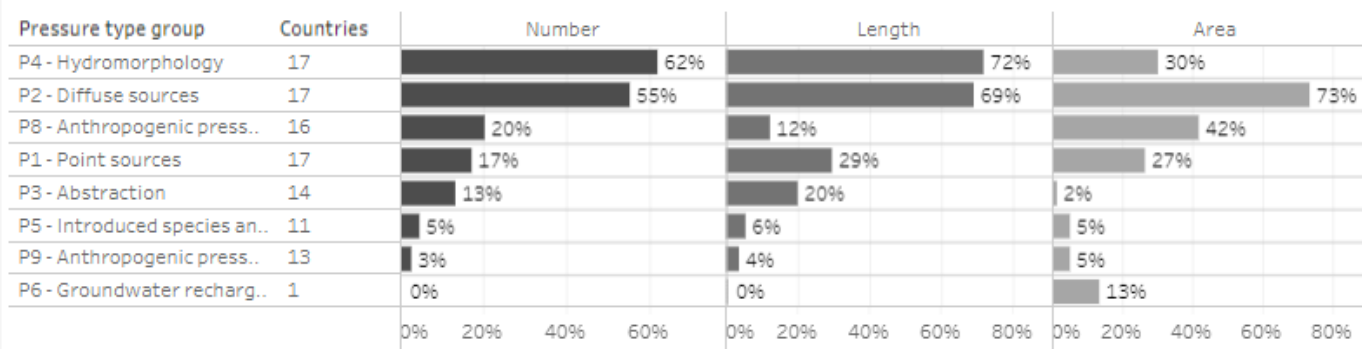
River Basin District (RBD)

(All)

Sub-unit

(All)

3rd River Basin Management Plans - All

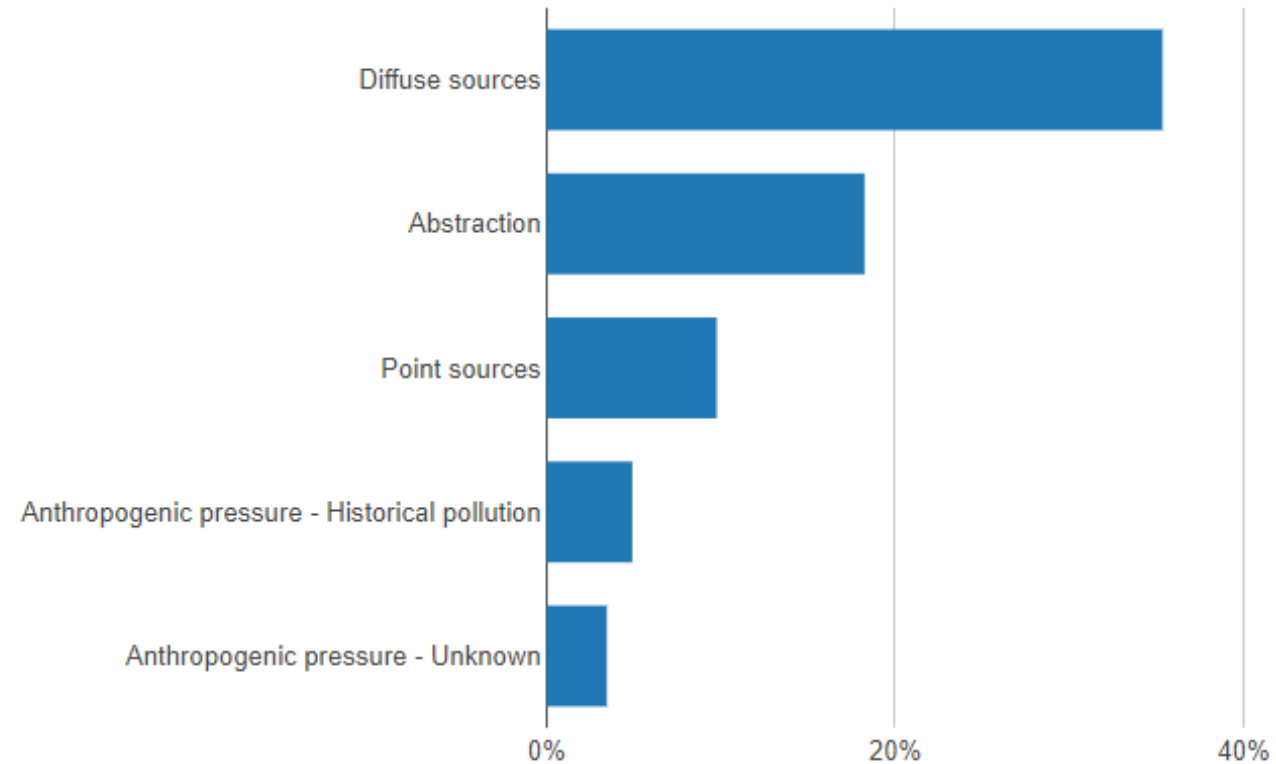


Notes:

- 1) River basin districts and sub-units according to the latest reported data.
- 2) For river water bodies, the size value is the length (km). For other water body categories, the size value is the area (km²).
- 3) 'Unchanged' water bodies are water bodies that have not been redelineated since first reported.



Top five groundwater bodies pressures at EU27 level, 3rd River Basin Management Plan



Note | Sources | More info [↗](#)

Dive into the expert dashboard →



Groundwater bodies: Significant pressures

Show:

Management plan (RBMP)

3rd ▼

Water body delineation

(All) ▼

Filter by:

Countries reporting

1 30



Pressure type group

(Multiple values) ▼

Pressure type

(All) ▼

Aquifer type

(All) ▼

Aquifer productivity

(All) ▼

Quantitative status

(Multiple values) ▼

Chemical status

(Multiple values) ▼

Filter by spatial unit:

Country group

EU27 ▼

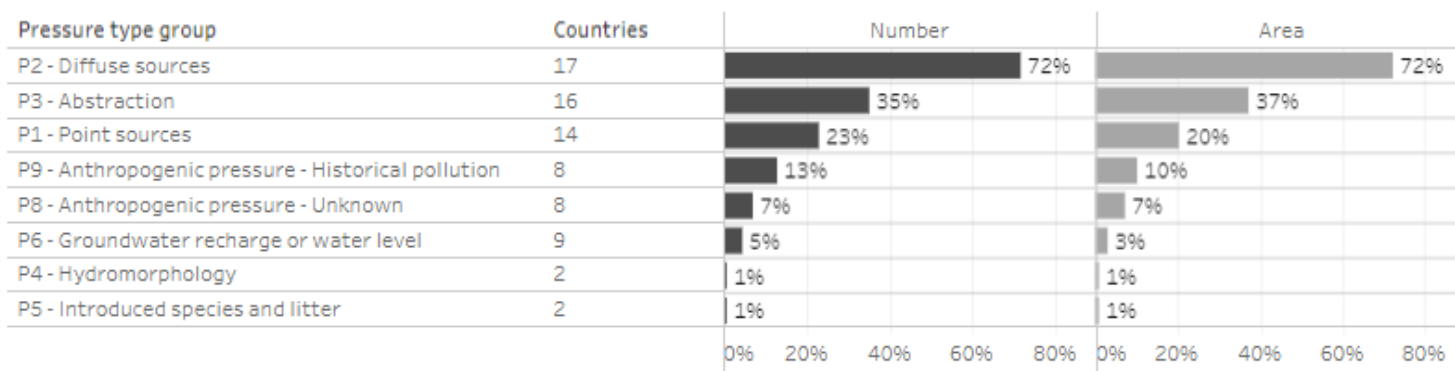
Country

(All) ▼

River Basin District (RBD)

(All) ▼

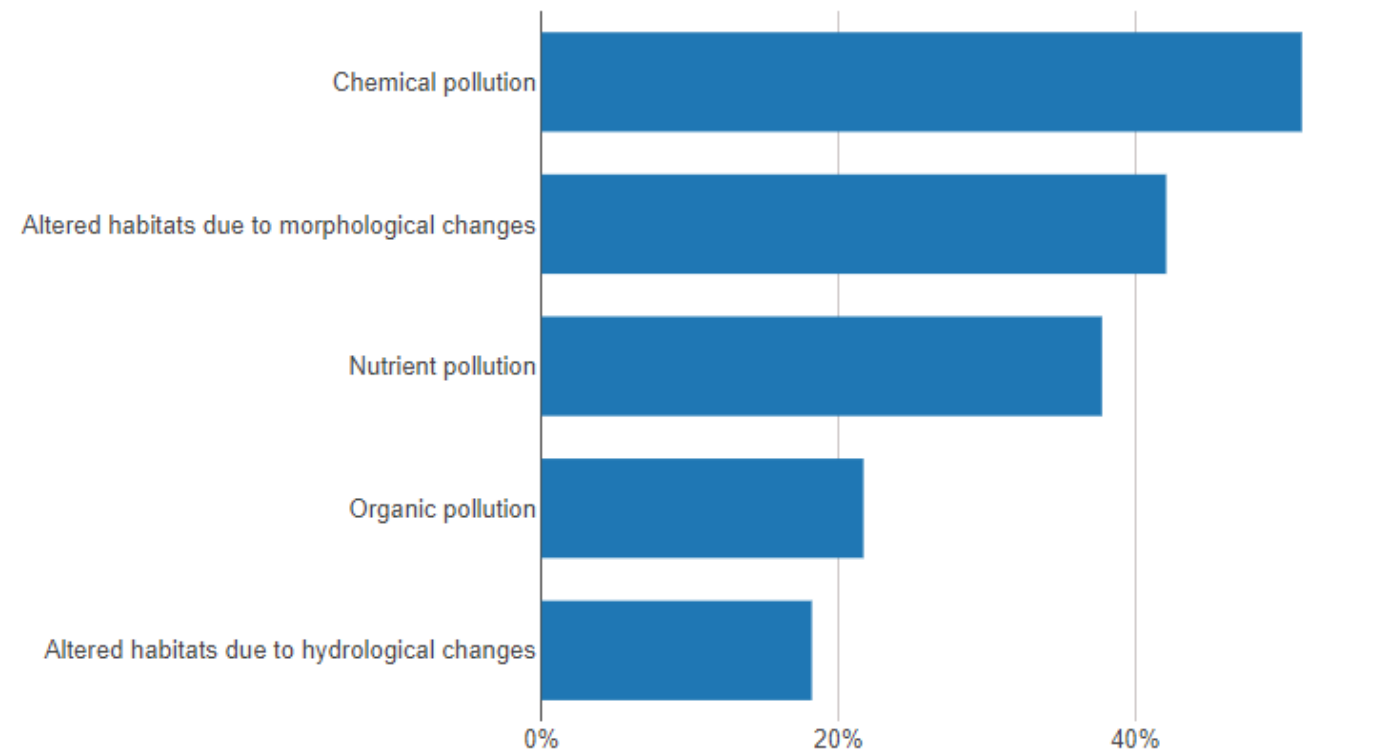
3rd River Basin Management Plans - All



<u>Surface waters ecological status</u>	<u>Surface waters chemical status</u>	<u>Groundwaters quantitative status</u>
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→ Groundwater pollutants		



Top five surface water bodies impacts at EU27 level, 3rd River Basin Management Plan



High level

[Note](#) | [Sources](#) | [More info](#) [↗](#)

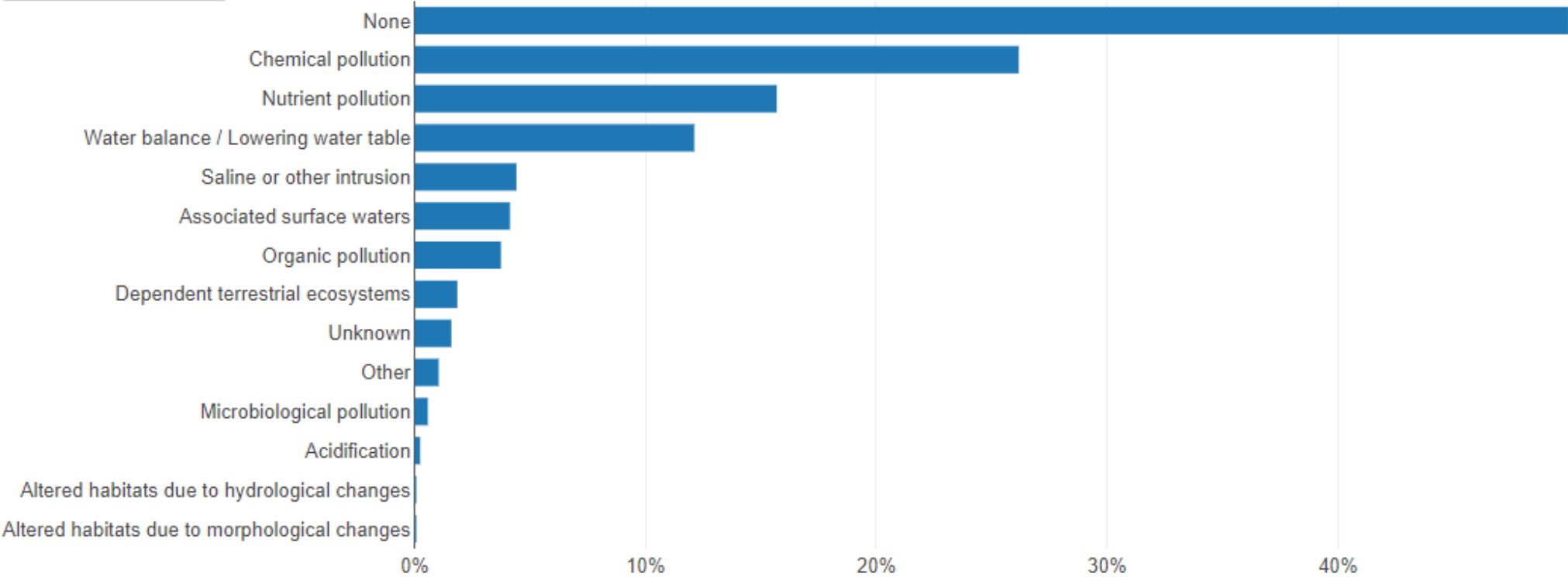
[Dive into the expert dashboard](#) →

Groundwater bodies impacts, at EU and Country level, 3rd River Basin Management Plan

Detailed level

Country

EU27



<u>Surface waters ecological status</u>	<u>Surface waters chemical status</u>	<u>Groundwaters quantitative status</u>
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→ Physicochemical quality elements		
→ River Basin Specific Pollutants		
<u>Groundwaters chemical status</u>	<u>Pressures and impacts</u>	<u>Characterisation of water bodies</u>
→ Chemical status by country	→ Surface water significant impacts	→ Heavily Modified Water Bodies and Artificial Water Bodies
→ Chemical status by geological formation	→ Groundwater significant impacts	→ Surface water bodies physical alterations
→ Groundwater pollutants		

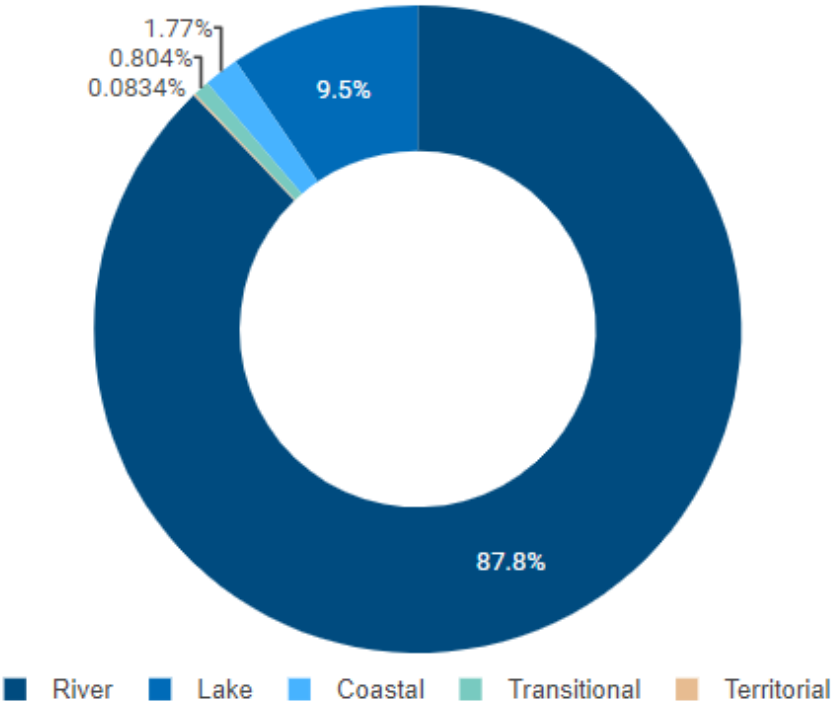


Number and categories of European surface water bodies in the 3rd River Basin Management Plan

Country

EU27

▼



Note | Sources | More info [↗](#)

Dive into the expert dashboard →

Surface water bodies: Number and Size

DRAFT!

Show:		Number	Number (%)	Length (km)	Length (%)	Median (km)	Area (km ²)	Area (%)	Median (km ²)
Management plan (RBMP)	*	67 143	100.0%	877 165	100.0%	8.4	432 248	100.0%	1.1
3rd	AT	8 178	12.2%	32 135	3.7%	2.7	523	0.1%	1.5
	BE	560	0.8%	9 375	1.1%	13.0	1 525	0.4%	0.7
Water body delineation	CZ	1 118	1.7%	18 149	2.1%	15.0	268	0.1%	2.0
(All)	DE	9 744	14.5%	136 849	15.6%	8.8	26 139	6.0%	1.3
	DK	7 812	11.6%	18 582	2.1%	1.9	44 275	10.2%	0.1
Filter by:	EE	746	1.1%	11 758	1.3%	14.9	27 186	6.3%	1.3
Water body category	ES	5 465	8.1%	79 343	9.0%	13.4	27 307	6.3%	1.4
(Multiple values)	FR	10 524	15.7%	223 468	25.5%	12.7	29 910	6.9%	1.9
	HR	1 978	2.9%	18 588	2.1%	8.3	31 867	7.4%	1.4
Water body type	IT	7 773	11.6%	78 589	9.0%	8.6	145 775	33.7%	6.8
(Multiple values)	LT	1 194	1.8%	11 777	1.3%	9.3	3 063	0.7%	1.0
	LV	780	1.2%	11 953	1.4%	21.7	11 620	2.7%	1.0
Filter by spatial unit:	NL	745	1.1%	4 839	0.6%	13.7	15 492	3.6%	0.3
Country group	PL	4 240	6.3%	107 322	12.2%	22.8	5 441	1.3%	1.0
EU27	PT	1 909	2.8%	23 155	2.6%	8.7	54 645	12.6%	3.5
	RO	3 026	4.5%	73 885	8.4%	14.7	7 080	1.6%	1.9
Country	SK	1 351	2.0%	17 399	2.0%	10.1	131	0.0%	1.0
(All)									
River basin district (RBD)									
(All)									
Sub-unit									
(All)									

1) River basin districts and sub-units according to the latest reported data.

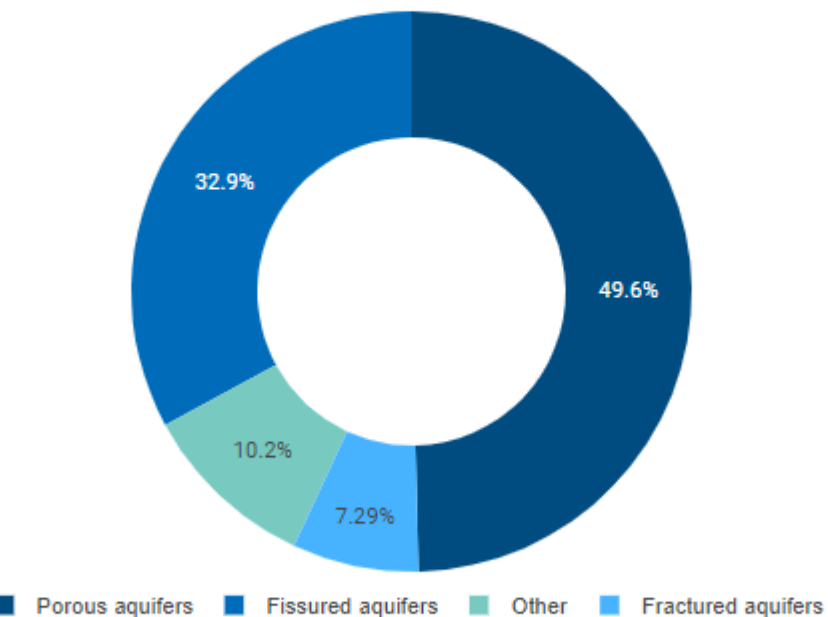
2) 'Unchanged' water bodies are water bodies that have not been redelineated since first reported.

3) For river water bodies, the size value is the length (km). For other water body categories, the size value is the area (km²).

Areas and geological formation of European groundwater bodies in the 3rd River Basin Management Plan

Country

EU27



[Note](#) | [Sources](#) | [More info](#) [↗](#)

[Dive into the expert dashboard](#) →

Groundwater bodies: Geological formation

DRAFT!

Show:		Porous		Fissured		Fractured		Other	
		High	Moderate	High	Moderate	High	Moderate	Low	Other
Management plan (RBMP)	(*)	801 298	1 020 010	430 561	778 120	41 308	226 534	291 011	861 433
3rd	AT	11 316	14 417	21 751	46 923	1 626			
Measure	BE	15 528	22 228	13 919	1 505	3 696	8 920	629	
Area (km²)	BG								158 559
	CY								5 985
Percentage	CZ	3 935	2 573	2 742	16 856			61 973	
none	DE	52 854	104 675	18 412	71 734	16 646	47 116	4 615	52 060
Water body delineation	DK		102 691		18 257				
(All)	EE	31 191	42 373		26 977		10 170	205	730
	EL								130 511
Filter by:	ES	79 713	75 501	53 290	71 154	2 670	45 327	43 164	706
Aquifer type	FR	166 713	227 084	193 027	450 131		29 361	72 618	108 096
(All)	HR	9 621	12 097	28 422	1 264		33	7 119	
	HU								279 637
Aquifer productivity	IE								71 593
(All)	IT	102 810	30 085	34 897	18 430	6 795	34 510	28 210	12 285
	LT	1 095	50 146		12 601		1 057		
Filter by spatial unit:	LV		90 541				20 809		
Country group	NL	9 334	30 025		632				
EU27	PL	105 366	137 461	33 905	18 662	10 582	5 991		
	PT	8 363	6 728	1 810	4 119		363	71 527	782
Country	RO	188 475	53 966	17 858	3 645	657	2 252	950	
(All)	SE								40 491
River basin district (RBD)	SK	14 983	17 419	10 527	15 228	262	18 999		
(All)									

1) River basin districts and sub-units according to the latest reported data.

2) 'Unchanged' water bodies are water bodies that have not been redelineated since first reported.



Show:

Water bodies
(All)

Measure
Number

Filter by:

Category
(Multiple values)

Type
(Multiple values)

Filter by spatial unit:

Country group
EU27

Country
(All)

River basin district (RBD)
(All)

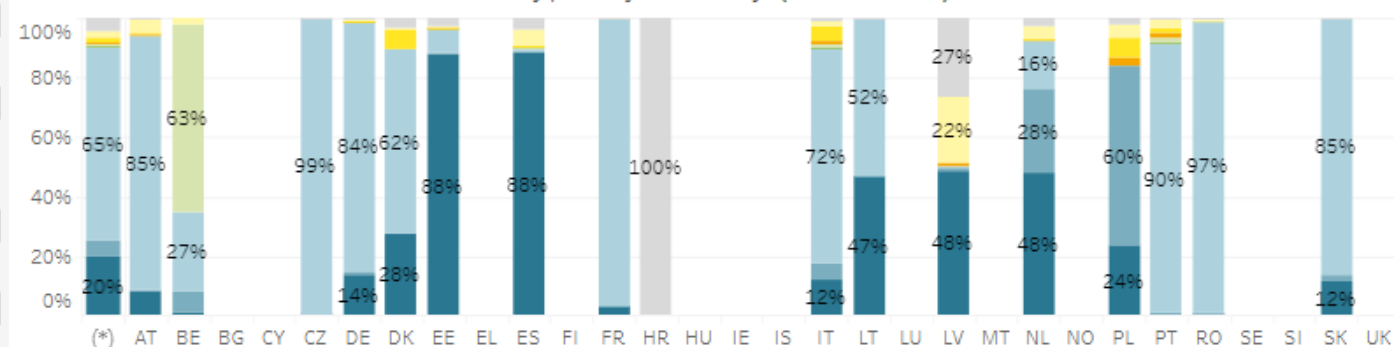
Sub-unit
(All)

Evolution type

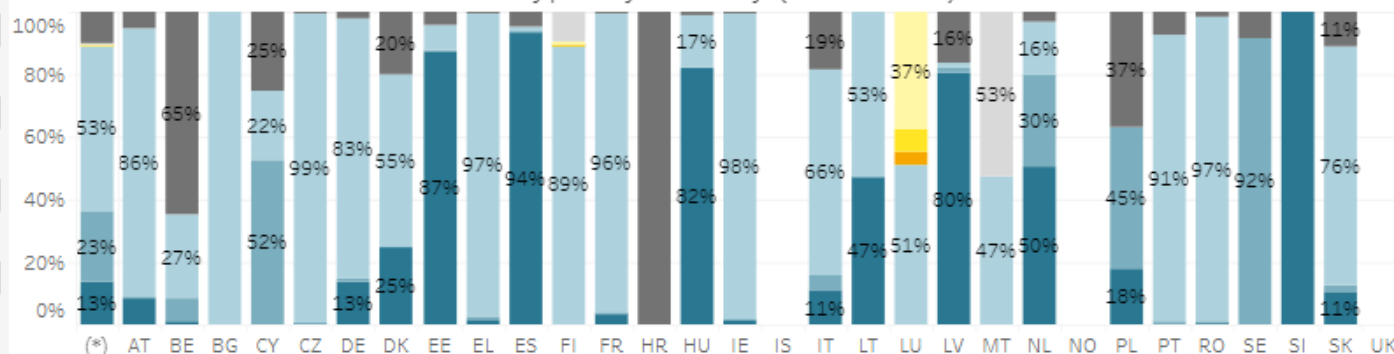
- deletion
- creation
- splitting
- aggregation
- changeBothAggregatio...
- changeExtendedArea
- changeReducedArea
- noChange
- changeCode
- change

DRAFT!

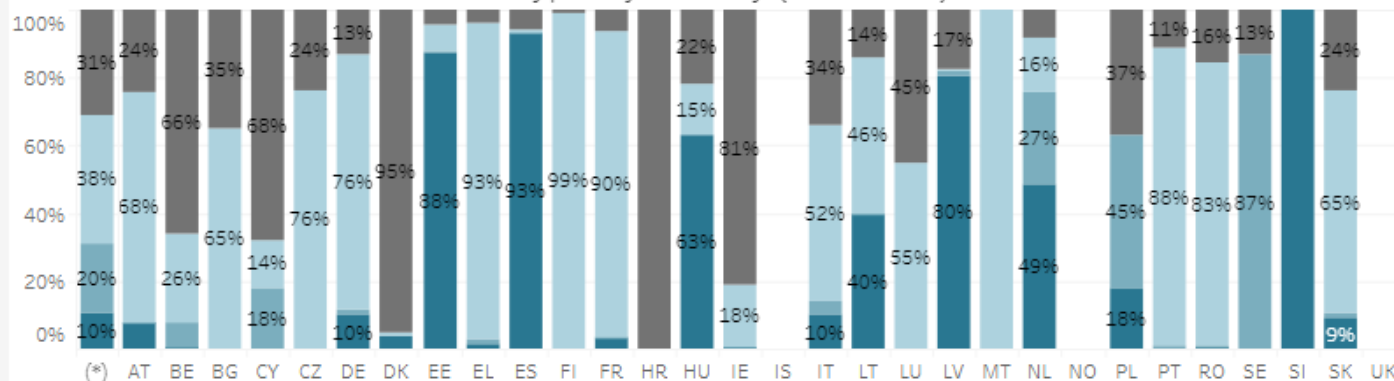
Surface water bodies: Evolution type, by country (3rd RBMP)



Surface water bodies: Evolution type, by country (2nd RBMP)



Surface water bodies: Evolution type, by country (1st RBMP)



European Environment Agency



[surface-water-bodies-delineation-of-the-water-bodies-3rd-2nd-and-1st-rbmp](#)

Show:

Water body delineation

(All)

Measure

Area (km²)

Filter by:

Aquifer type

(All)

Aquifer productivity

(All)

Filter by spatial unit:

Country group

EU27

Country

(All)

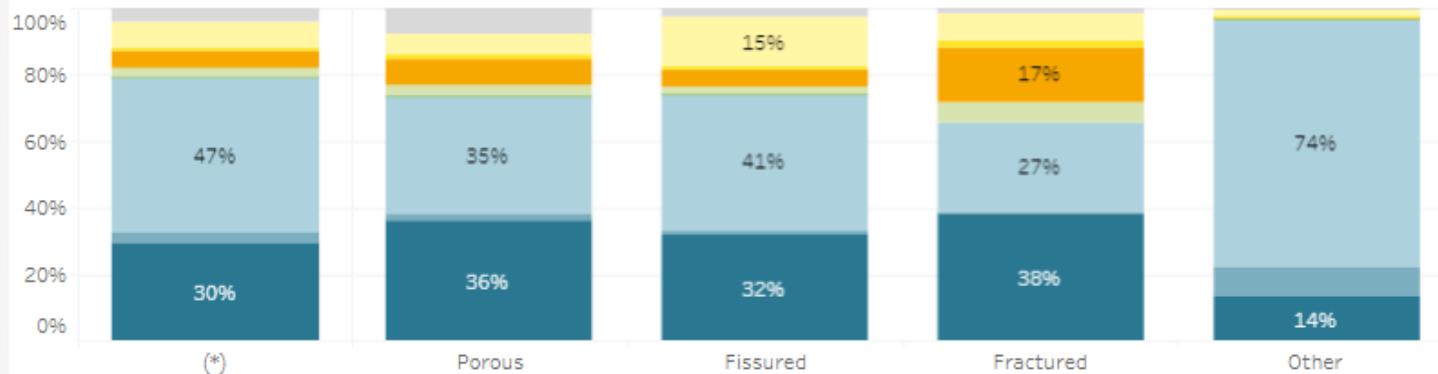
River basin district (RBD)

(All)

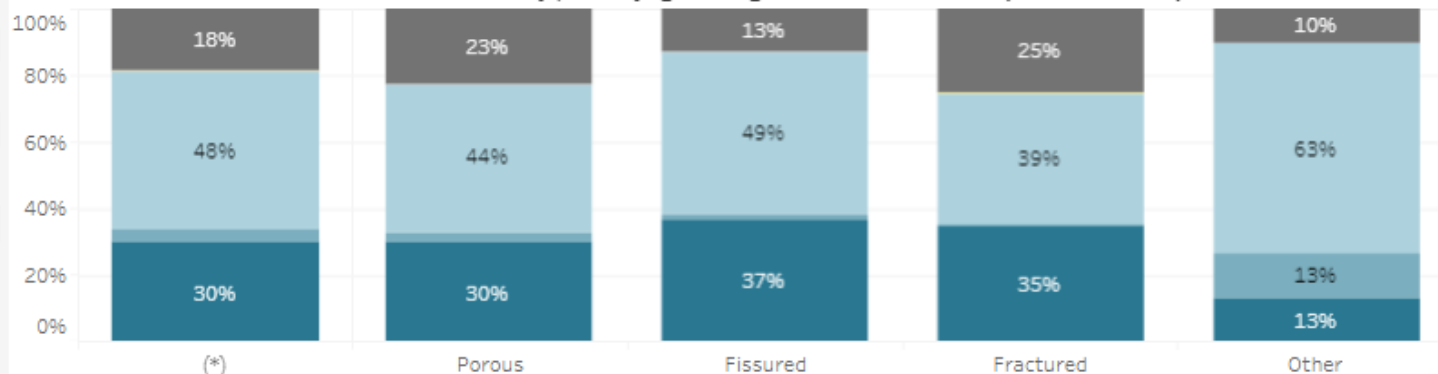
Evolution type

- deletion
- creation
- splitting
- aggregation
- changeBothAggregatio...
- changeExtendedArea
- changeReducedArea
- noChange
- changeCode
- change
- unpopulated

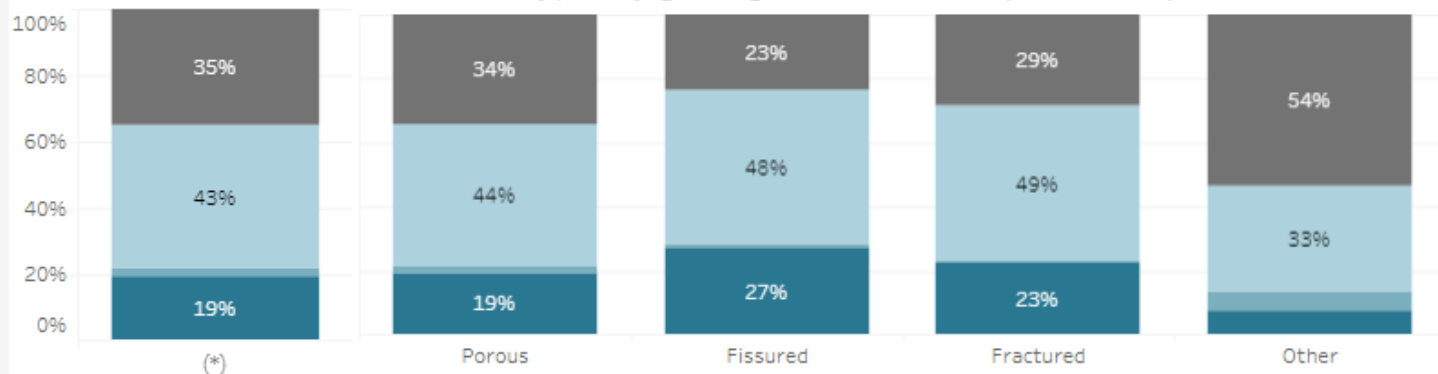
Groundwater bodies: Evolution type, by geological formation (3rd RBMP)



Groundwater bodies: Evolution type, by geological formation (2nd RBMP)



Groundwater bodies: Evolution type, by geological formation (1st RBMP)



[groundwater-bodies-delineation-of-the-water-bodies-3rd-2nd-and-1st-rbmp](#)



When using the dashboards... I

Standard filters allow you to choose (e.g.):

- Between RBMPs
- Number / length (km) / area (km2)
- All/unchanged waterbodies
- Surface water body categories and types / Groundwater body aquifer type and productivity
- EU 27 countries / Other
- Countries
- River basin districts and sub units

[E.g. surface-water-bodies-ecological-or-chemical-status](#)

Show:

Management plan (RBMP)
3rd ▼

Measure
Number ▼

Water body delineation
(All) ▼

Filter by:

Water body category
(Multiple values) ▼

Water body type
(Multiple values) ▼

Filter by spatial unit:

Country group
EU27 ▼

Country
(All) ▼

River basin district (RBD)
(All) ▼

Sub-unit
(All) ▼



When using the dashboards... II

Depending on the dashboard, other filters can allow you to choose (e.g.):

- Between status (ecological / chemical ; quantitative / chemical)
- With / without unknowns
- Causing failure eg Priority substances , groundwater pollutants
- Pressure type group and pressure type eg SW pressures

Using the dashboards...

Use the numbers as they are in the dashboards: avoid calculations* based on the data because of the risks of double counting etc

(*OK to calculate percentages based on number/size of waterbodies)

Percentages usually for the panel – not the European level eg pressures

Some features of the tableau dashboards allow investigation eg
Ecological and chemical status

Expert dashboards available directly <https://demo-water.devel5cph.eea.europa.eu/freshwater/resources/metadata/wfd-dashboards>

We are running analytics to see which of them get used by our networks: that will help us refine the list ahead of publication

Questions?

Next up the DISCODATA dissemination platform



Discodata – EEA data dissemination platform

The screenshot shows the Discodata web application. The browser address bar displays 'discodata.eea.europa.eu'. The page header includes the Discodata logo and 'Login' and 'Help' links. On the left, the 'Database explorer' lists various data sources: AirQualityDataFlows, AirQualityIndicators, BISE, CataloguePolicyEvaluations, CO2Emission, DigitalWater, EUNIS, FISE, Floods2018, GHGPAMS, IED, MapMyTree, MarineLitterWatch, metadata, natura2000, and NCCAPS. The main 'Query window' on the right has a 'Type of request' dropdown set to 'Query'. The 'SQL Source' text area contains the following text: '-- Write your SQL-query here', '-- For more information in SQL go here <https://docs.microsoft.com/en-us/sql/t-sql/queries/select-examples-transact-sql?view=sql-server-20>', and 'Select top 1000 * from'. Below the text area is a blue 'Submit' button. At the bottom of the query window, a light gray bar contains the text 'Submit query to see the URL' and a blue 'Copy' button.

↓ Scroll down to WISE_WFD, expand to v2r1

Discodata – Expand database to see tables

▼ v2r1

- GWB_GroundWaterBody
- GWB_GroundWaterBody_GWAssociatedProtectedArea
- GWB_GroundWaterBody_GWAssociatedProtectedArea_protectedAreaExemption
- GWB_GroundWaterBody_gwChemicalReasonsForFailure
- GWB_GroundWaterBody_GWPollutant
- GWB_GroundWaterBody_GWPollutant_GWChemicalExemptionType
- GWB_GroundWaterBody_GWPollutant_gwPollutantOther
- GWB_GroundWaterBody_gwQuantitativeExemptionPressure
- GWB_GroundWaterBody_gwQuantitativeExemptionType
- GWB_GroundWaterBody_gwQuantitativeReasonsForFailure
- GWB_GroundWaterBody_gwReasonsForRiskQuantitative
- GWB_GroundWaterBody_gwSignificantImpactOther
- GWB_GroundWaterBody_gwSignificantImpactType
- GWB_GroundWaterBody_gwSignificantPressureOther
- GWB_GroundWaterBody_gwSignificantPressureType
- GWB_GroundWaterBody_linkSurfaceWaterBodyCode
- GWMET_GWExemptions
- GWMET_GWExemptions_gwDisproportionateCostAlternativeFinancing
- GWMET_GWExemptions_gwDisproportionateCostAnalysis

Query window

Type of request

Query

SQL Source

Submit

Submit query to see the URL

Copy

Discodata – options for accessing data

Click the three dots on the right-hand side of a table to open options

▼ v2r1

> GWB_GroundWaterBody

> GWB_GroundWaterBody_GWAssoci

> GWB_GroundWaterBody_GWAssoci

> GWB_GroundWaterBody_gwChemici

> GWB_GroundWaterBody_GWPolluta

> GWB_GroundWaterBody_GWPolluta

> GWB_GroundWaterBody_GWPolluta

> GWB_GroundWaterBody_gwQuanti

> GWB_GroundWaterBody_gwQuanti

> GWB_GroundWaterBody_gwQuanti

> GWB_GroundWaterBody_gwReasori

> GWB_GroundWaterBody_gwSignific

> GWB_GroundWaterBody_gwSignific

> GWB_GroundWaterBody_gwSignific

> GWB_GroundWaterBody_gwSignific

> GWB_GroundWaterBody_gwSignific

> GWB_GroundWaterBody_linkSurfac

> GWMET_GWExemptions

> GWMET_GWExemptions_gwDispro

> GWMET_GWExemptions_gwDispro

> GWMET_GWExemptions_gwDispro

GWB_GroundWaterBody

table

External metadata

Information regarding the delineation and characterisation of groundwater bodies should be reported at groundwater body level using the schema GWB. Information regarding the pressures and impacts on groundwater bodies should be reported at groundwater body level using the schema GWB. Information regarding the quantitative status of groundwater bodies should be reported at groundwater body level using the schema GWB. Information regarding the chemical status of groundwater bodies should be reported at groundwater body level using the schema GWB.

⌕ Select top 100 rows

⬇ Download

👁 Open table viewer

Query window

Type of request

Query

SQL Source

Submit

Submit query to see the URL

Copy

Discodata – use SQL query to examine data

 Discodata

Login  Help

▼ v2r1

> GWB_GroundWaterBody

> GWB_GroundWaterBody_GWAssoci

> GWB_GroundWaterBody_GWAssoci

> GWB_GroundWaterBody_gwChem

> GWB_GroundWaterBody_GWPollut

> GWB_GroundWaterBody_GWPollut

> GWB_GroundWaterBody_GWPollut

> GWB_GroundWaterBody_gwQuanti

> GWB_GroundWaterBody_gwQuanti

> GWB_GroundWaterBody_gwQuanti

> GWB_GroundWaterBody_gwReasor

> GWB_GroundWaterBody_gwSignific

> GWB_GroundWaterBody_gwSignific

> GWB_GroundWaterBody_gwSignific

> GWB_GroundWaterBody_gwSignific

> GWB_GroundWaterBody_linkSurfac

▲

GWB_GroundWaterBody

table

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 Select top 100 rows

 Download

 Open table viewer

Query window

Type of request

Query

SQL Source

```
SELECT TOP 100 * FROM [WISE_WFD].[v2r1].[GWB_GroundWaterBody]
```

Submit

Submit query to see the URL

Copy



Discodata – use SQL query, example

▼ v2r1

- > **GWB_GroundWaterBody**
- > GWB_GroundWaterBody_GWAssoci
- > GWB_GroundWaterBody_GWAssoci
- > GWB_GroundWaterBody_gwChem
- > GWB_GroundWaterBody_GWPollut
- > GWB_GroundWaterBody_GWPollut
- > GWB_GroundWaterBody_GWPollut
- > GWB_GroundWaterBody_gwQuanti
- > GWB_GroundWaterBody_gwQuanti
- > GWB_GroundWaterBody_gwQuanti
- > GWB_GroundWaterBody_gwReasor
- > GWB_GroundWaterBody_gwSignific
- > GWB_GroundWaterBody_gwSignific
- > GWB_GroundWaterBody_gwSignific
- > GWB_GroundWaterBody_gwSignific
- > GWB_GroundWaterBody_linkSurfac
- > GWMET_GWExemptions
- > GWMET_GWExemptions_gwDispro
- > GWMET_GWExemptions_gwDispro
- > GWMET_GWExemptions_gwDispro

GWB_GroundWaterBody

table

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⌕ Select top 100 rows

⬇ Download

👁 Open table viewer

Query window

Type of request

Query

SQL Source

```
SELECT countryCode, count(distinct euGroundWaterBodyCode) n
FROM [WISE_WFD].[v2r1].[GWB_GroundWaterBody]
where cYear = '2022'
and hasDescriptiveData = '1'
group by countryCode
order by countryCode
```

Submit

[https://discodata.eea.europa.eu/sql?query=SELECT%20countryCode%2C%20count\(distinct%20euGroundWaterBodyCode\)%20n%20%0AFROM](https://discodata.eea.europa.eu/sql?query=SELECT%20countryCode%2C%20count(distinct%20euGroundWaterBodyCode)%20n%20%0AFROM) [Copy](#)

Table view

[Raw response](#)

Previous 1 ... Next

countryCode	n
AT	142
BE	81
CZ	174
DE	1291
DK	2050

Discodata – download (full table)

New query backend! You can now send queries to the Dremio engine. Change "Type of request"

Discodata

v2r1

- GWB_GroundWaterBody
- GWB_GroundWaterBody_GW
- GWB_GroundWaterBody_GW
- GWB_GroundWaterBody_gwC
- GWB_GroundWaterBody_GW
- GWB_GroundWaterBody_GW
- GWB_GroundWaterBody_gwC
- GWB_GroundWaterBody_gwC
- GWB_GroundWaterBody_gwC
- GWB_GroundWaterBody_gwC
- GWB_GroundWaterBody_gwf
- GWB_GroundWaterBody_gwS
- GWB_GroundWaterBody_gwS
- GWB_GroundWaterBody_gwS
- GWB_GroundWaterBody_gwS
- GWB_GroundWaterBody_link
- GWMET_GWExemptions
- GWMET_GWExemptions_gwC
- GWMET_GWExemptions_gwf

GWB_GroundWaterBo...ⓧ
table

External metadata

Information regarding the delineation and characterisation of groundwater bodies should be reported at groundwater body level using the schema GWB. Information regarding the pressures and impacts on groundwater bodies should be reported at groundwater body level using the schema GWB. Information regarding the quantitative status of groundwater bodies should be reported at groundwater body level using the schema GWB. Information regarding the chemical status of groundwater bodies should be reported at groundwater body level using the schema GWB.

Select top 100 rows

Download

Open table viewer

Query window

Type of request
Query

SQL Source

```
SELECT TOP 100 * FROM [WISE_WFD].[v2r1].[GWB_GroundWaterBody]
```

Submit

Submit query to see the URL

Copy

Downloads

gwb_groundwaterbody.zip
Open file

See more

xlsx gwb_groundwaterbody ✓ 29/02/2024 15:14 Microsoft Excel Comma Separated Values File 15,994 KB

 Discodata

- > v1r1
- > v2
- ▼ v2r1
 - > GWB_GroundWaterBody
 - > GWB_GroundWaterBody_GW
 - > GWB_GroundWaterBody_GW
 - > GWB_GroundWaterBody_gwC
 - > GWB_GroundWaterBody_GW
 - > GWB_GroundWaterBody_GW
 - > GWB_GroundWaterBody_GW
 - > GWB_GroundWaterBody_gwC
 - > GWB_GroundWaterBody_gwC
 - > GWB_GroundWaterBody_gwC
 - > GWB_GroundWaterBody_gwF
 - > GWB_GroundWaterBody_gwS
 - > GWB_GroundWaterBody_gwS
 - > GWB_GroundWaterBody_gwS
 - > GWB_GroundWaterBody_gwS

i External metadata

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 Download[Open table viewer](#)

Query window

Type of request

Query

SQL Source

```
SELECT TOP 100 * FROM [WISE_WFD].[v2r1].[GWB_GroundWaterBody]
```

Submit

Submit query to see the URL

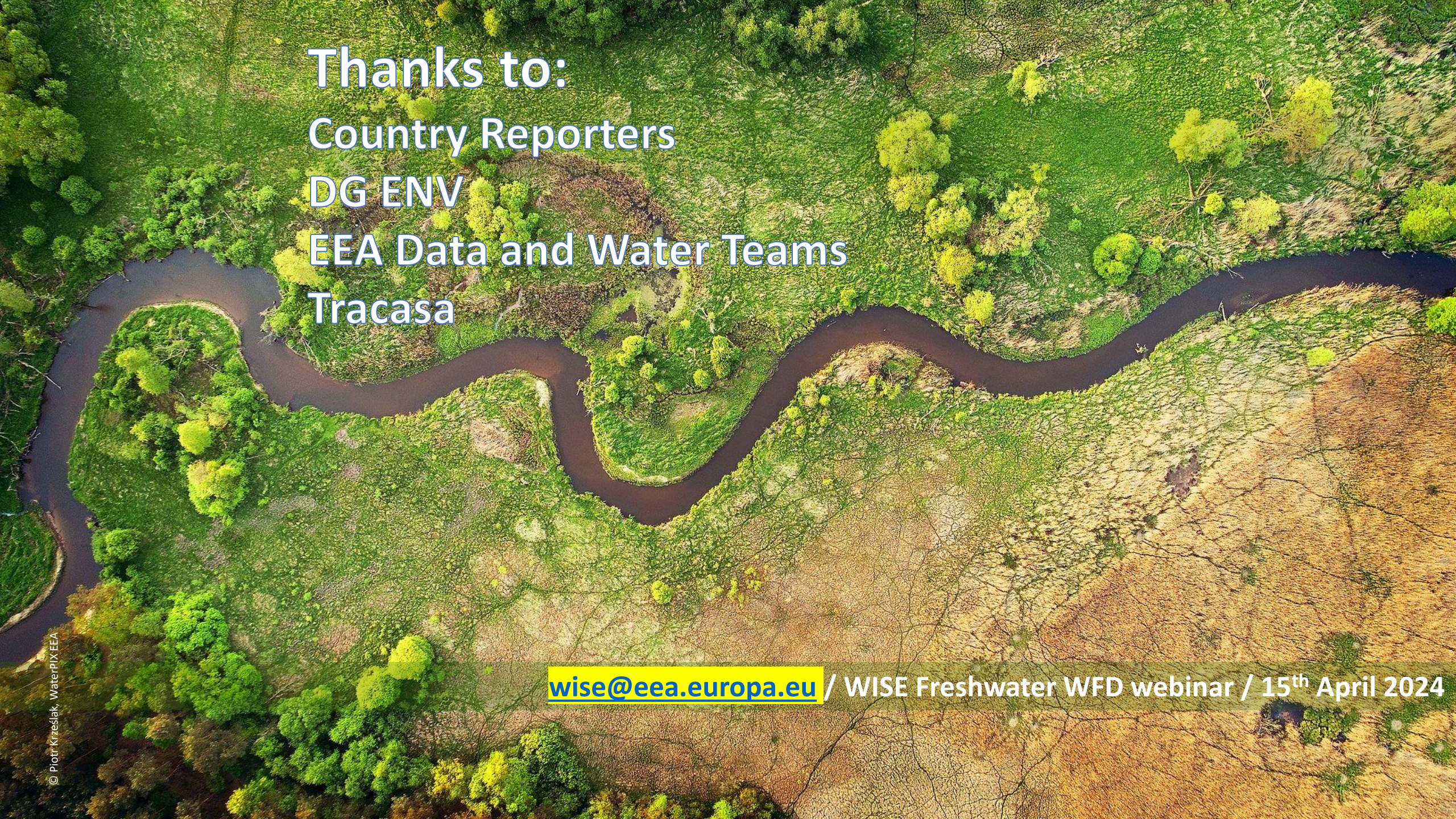
Copy

Thanks for listening

Questions, Comments?

Follow-up

- User feedback on WISE Freshwater WFD pages welcome (to early May) - send to wise@eea.europa.eu
- Data can still be reported electronically to EEA. However, these will not be included in WISE Freshwater until after the summer.

An aerial photograph of a river meandering through a dense forest. The river is dark and winding, creating several loops and bends. The surrounding land is covered in lush green trees and vegetation, with some areas showing lighter green or yellowish hues, possibly indicating different types of trees or seasonal changes. The overall scene is a natural, undisturbed landscape.

Thanks to:
Country Reporters
DG ENV
EEA Data and Water Teams
Tracasa

wise@eea.europa.eu / WISE Freshwater WFD webinar / 15th April 2024