

European waters — Assessment of status and pressures

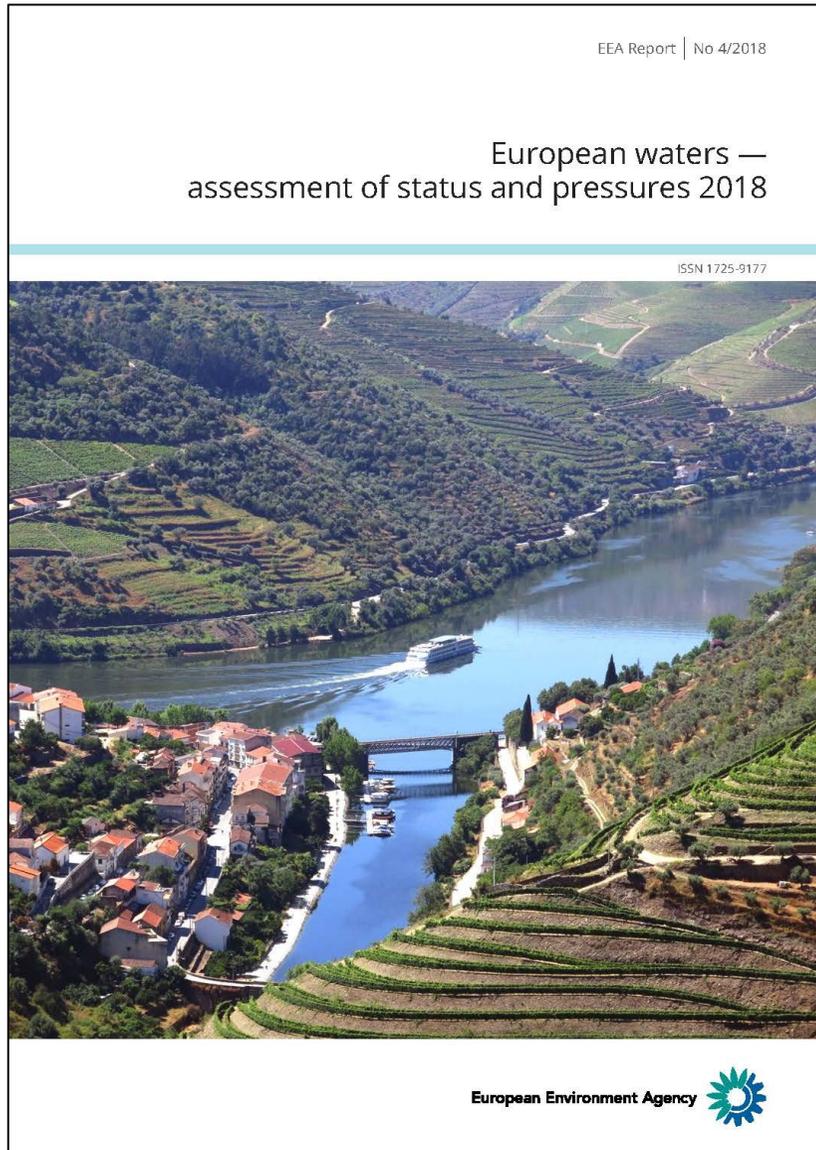


Content

1. EEA State-of-Water report and WISE visualisation tool
2. Background
3. Current status
4. Looking ahead
5. Fitness check of WFD and floods directive, evaluation of WFD implementation

- 1. EEA State of Water report and WISE-WFD visualisation tool**

European waters — Assessment of status and pressures 2018



Key messages

- This report presents results on the status of EU waters based on the second River Basin Management Plans (RBMPs, 2010-2015).
- Since the first RBMPs our knowledge of Europe's waters has grown significantly, providing a better understanding of the status and the pressures causing failure to achieve good status.
- Nevertheless European waters remain under pressure from water pollution, over-abstraction and structural change from a range of human activities.

What information is our report based on?



- **25 EU Member States and 160 River Basin Management Plans reported to Water Information System for Europe (WISE).**
- **89 000 river water bodies** — 1.2 million km, avg. length 13 km
- **18 000 lake water bodies** — 2/3 from Sweden and Finland, avg. area 4.9 km²
- **800 transitional water bodies** — avg. area 19 km²)
- **2 800 coastal water bodies** — avg. area 102 km²
- **13 400 groundwater bodies** — 4.3 million km²

WISE-Freshwater WFD visualisation tool +150 dashboards



European Environment Agency 

Download

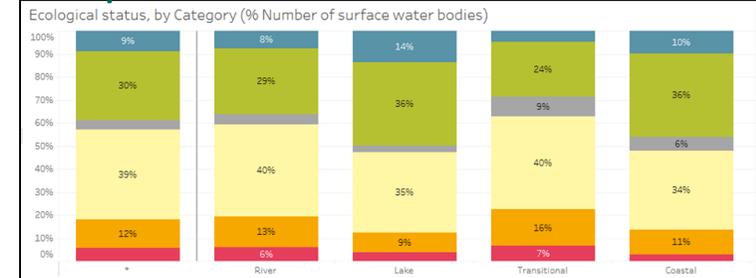
- European water: [13.3 MB]

Tables

Surface water bodies: Number and Size, by Chemical status

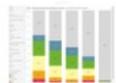
Show:	RBMP	Number		% Number (pane)		Length		% Length (pane)		Area	
		Good	Failing to ach.	Good	Failing to ach.	Good	Failing to ach.	Good	Failing to ach.	Good	Failing to ach.
Management plan (RBMP)	2nd	42 065	93 966	45.2%	54.8%	630 058	300 600	62.3%	37.7%	241 992	133 423
Water bodies	MUT50	Number		% Number (pane)		Length		% Length (pane)		Area	
AT		8 127		100.0%		32 278		100.0%		522	
BE		12	941	2.2%	97.8%	9 346		100.0%		14	1 501
BG		322	25	92.8%	7.2%	22 358	1 940	92.0%	8.0%	512	254
CY		173	7	96.1%	3.9%	1 560	61	96.3%	3.7%	870	69
CZ		768	349	68.6%	31.2%	11 799	6 343	65.0%	35.0%	203	69
DE		9 908		100.0%		137 160		100.0%		26 179	
DK		72	62	53.7%	46.3%	38	150	20.1%	79.9%	22 245	4 974
EE		73	15	83.0%	17.0%	1 783	53	97.1%	2.9%	12 196	11 000
ES		4 476	329	93.2%	6.8%	75 735	5 912	92.8%	7.2%	15 168	787
FI		3 366	3 440	49.5%	50.5%	24 904	10 640	69.7%	30.3%	53 636	9 697
FR		7 181	1 814	79.8%	20.2%	146 560	38 071	79.4%	20.6%	27 213	3 560
HR		1 443	129	91.8%	8.2%	17 338	1 736	90.9%	9.1%	13 211	852
HU		493	84	85.4%	14.6%	9 891	2 759	78.2%	21.8%	746	131
IT		6 152	733	89.4%	10.6%	89 436	7 008	89.5%	10.5%	11 447	5 029
LU		110		100.0%		1 214		100.0%			
LV		50	22	69.4%	30.6%	1 656	453	78.5%	21.5%	156	2 398
MT		10	9	52.6%	47.4%	3		100.0%		0	399
NL		279	368	43.1%	56.9%	1 570	2 585	37.8%	62.2%	379	6 924
PL		3 331	1 489	69.1%	30.9%	75 326	36 071	67.6%	32.4%	1 573	832

Graphs



Related content

Data references **Data visualisations** Figures used News and articles See also



Quality element status



Ecological status of surface water



Delineation of water bodies



Chemical status of surface water

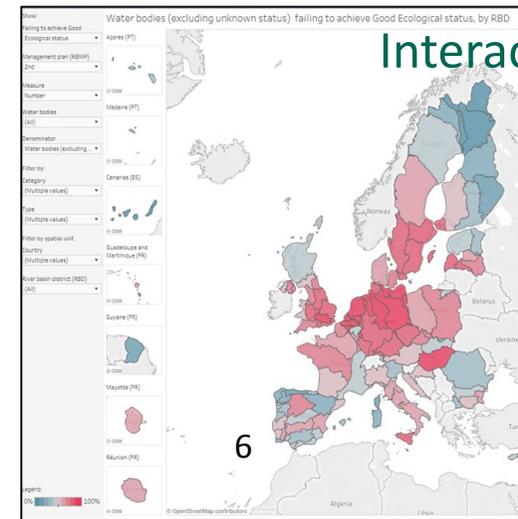


Groundwater quantitative and



Pressures and impacts

Interactive maps



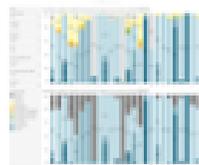
<https://www.eea.europa.eu/publications/state-of-water>

Six thematic web pages with dashboards

Data visualisations News and articles Related data Related publications



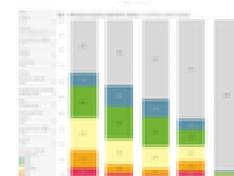
Pressures and impacts



Delineation of water bodies



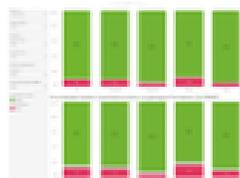
Chemical status of surface water bodies



Quality element status



Ecological status of surface water bodies



Groundwater quantitative and

WISE-Freshwater WFD - Template for tables

Title
Surface water bodies: Number or Size, by Category

RBMP	River		Lake		Transitional		Coastal		Territorial		Unpopulated	
	total	% (col)	total	% (col)	total	% (col)	total	% (col)	total	% (col)	total	% (col)
2nd	89 097	100,0%	18 153	100,0%	782	100,0%	2 830	100,0%	45	100,0%	43	100,0%
NUTS03	River		Lake		Transitional		Coastal		Territorial		Unpopulated	
	total	% (col)	total	% (col)	total	% (col)	total	% (col)	total	% (col)	total	% (col)
AT	8 065	9,1%	62	0,3%								
BE	527	0,6%	18	0,1%	6	0,8%	2	0,1%	1	2,2%		
BG	873	1,0%	37	0,2%	28	3,6%	17	0,6%				
CY	174	0,2%	8	0,0%			22	0,8%				
CZ	1 044	1,2%	77	0,4%								
DE	8 998	10,1%	730	4,0%	1 119	14,5%	75	2,7%				
DK	7 776	8,7%	856	4,7%			119	4,2%	14	31,1%		
EE	645	0,7%	89	0,5%			10	0,6%	2	4,4%		
ES	4 390	4,9%	326	1,8%	186	23,8%	220	7,8%			40	93,0%
FI	1 913	2,1%	4 617	25,4%			276	9,8%				
FR	10 706	12,0%	435	2,4%	94	12,0%	179	6,3%				
HR	1 484	1,7%	37	0,2%	25	3,2%	26	0,9%				
HU	963	1,1%	115	0,6%								
IT	7 493	8,4%	347	1,9%	172	22,0%	561	19,8%	8	17,8%		
LU	110	0,1%										
LV	203	0,2%	259	1,4%	3	0,4%	5	0,2%				
MT	3	0,0%	2	0,0%	5	0,6%	9	0,3%				
NL	246	0,3%	451	2,5%	5	0,6%	9	0,3%				
PL	4 586	5,1%	1 044	5,8%	9	1,2%	10	0,4%				

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 redelineated between the 1st and 2nd RBMP.

Show:

Management plan (RBMP)

2nd

Measure

Number

Water body (All)

Filter, Selections e.g. 1st & 2nd RBMPs

Category (All)

Type (All)

Spatial Status

Filter by spatial unit:

Country (All)

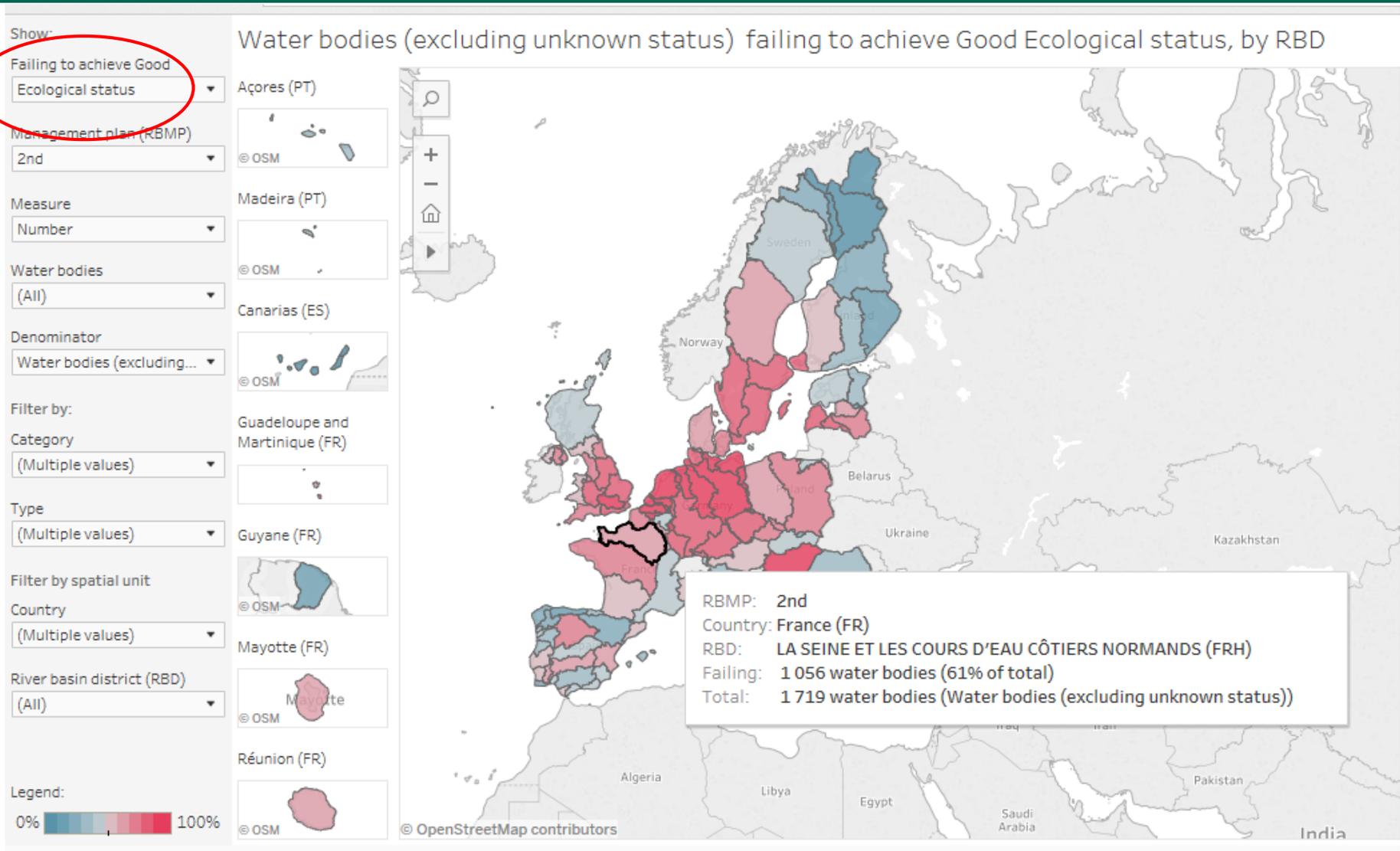
River basin district (RBD) (All)

Sub-unit (All)

Member State results
Drill down RBDs, subunits

Notes

WISE-Freshwater WFD - maps



Surface water chemical status, with and without uPBTs*

Show:

Measure
Number

Water bodies
(All)

Filter by:

Category
(Multiple values)

Type
(Multiple values)

Filter by spatial unit:

Country
(All)

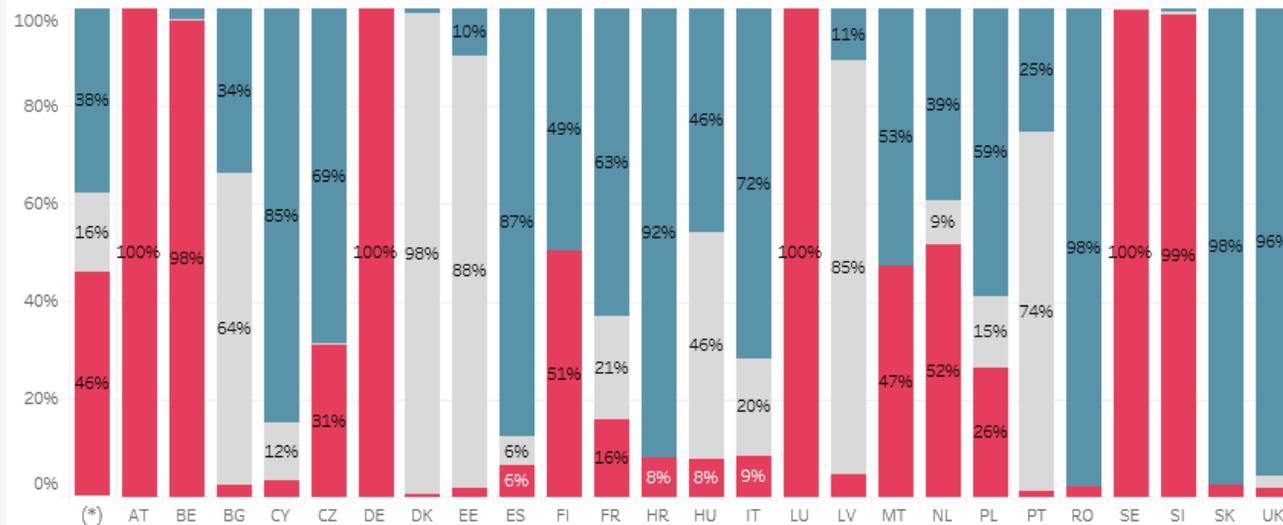
River basin district (RBD)
(All)

Sub-unit
(All)

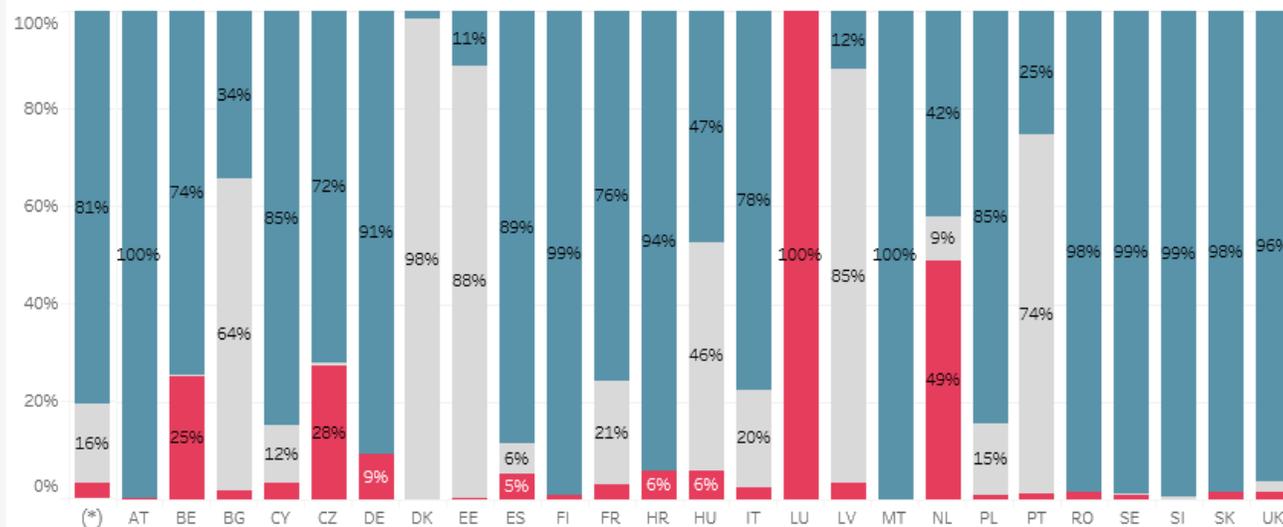
Chemical status

- Good
- Unknown
- Failing to achieve good
- Unpopulated

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



Surface water bodies: Chemical status without uPBT, by country (2nd RBMP)



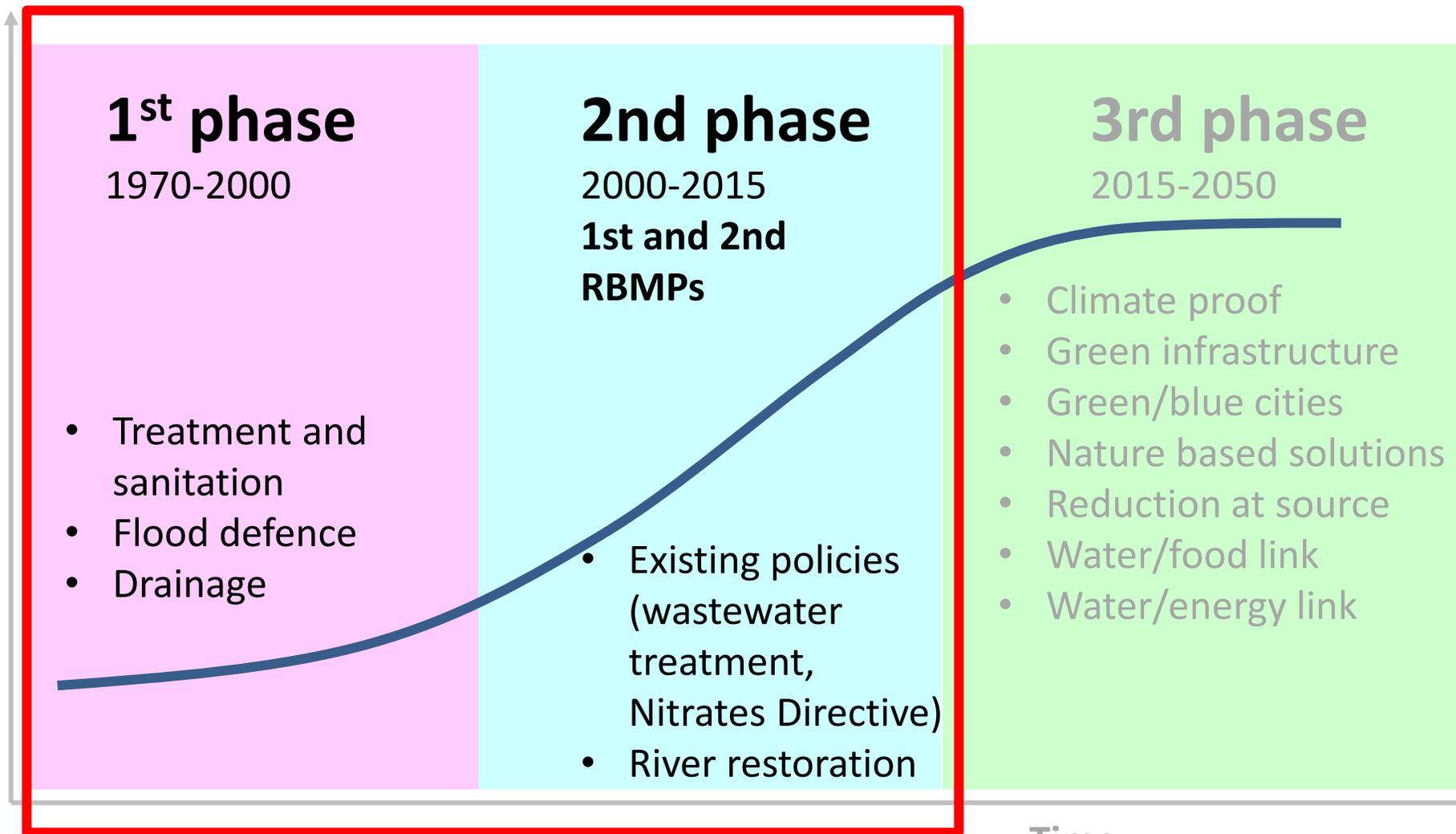
*Subset of "ubiquitous, persistent, bioaccumulative and toxic" priority substances

- [Chemical status with and without uPBT by country](#)

2. Background

Water management — investing in natural capital

Sustainability

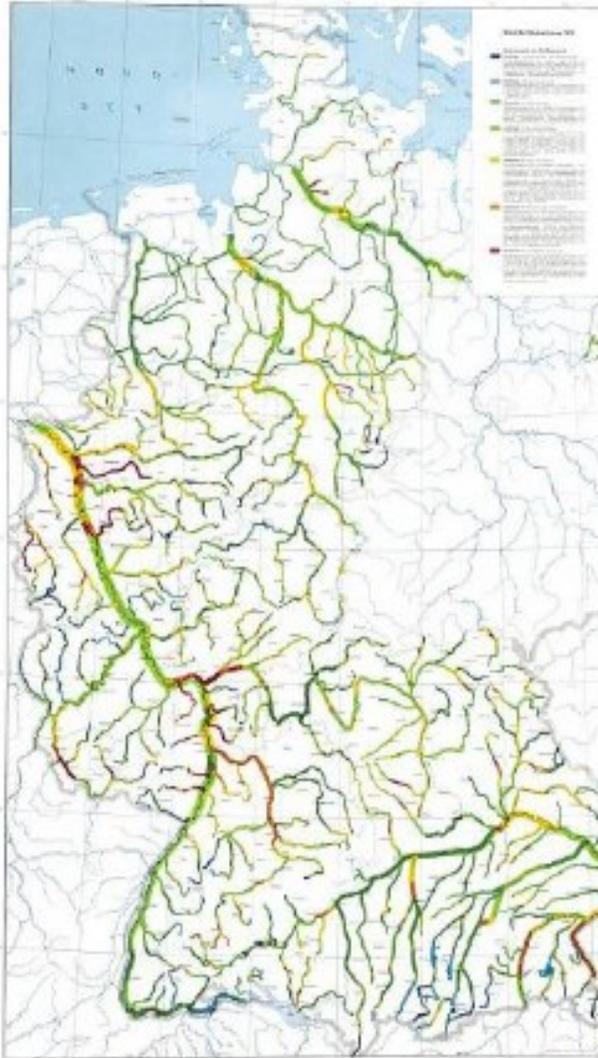


Time

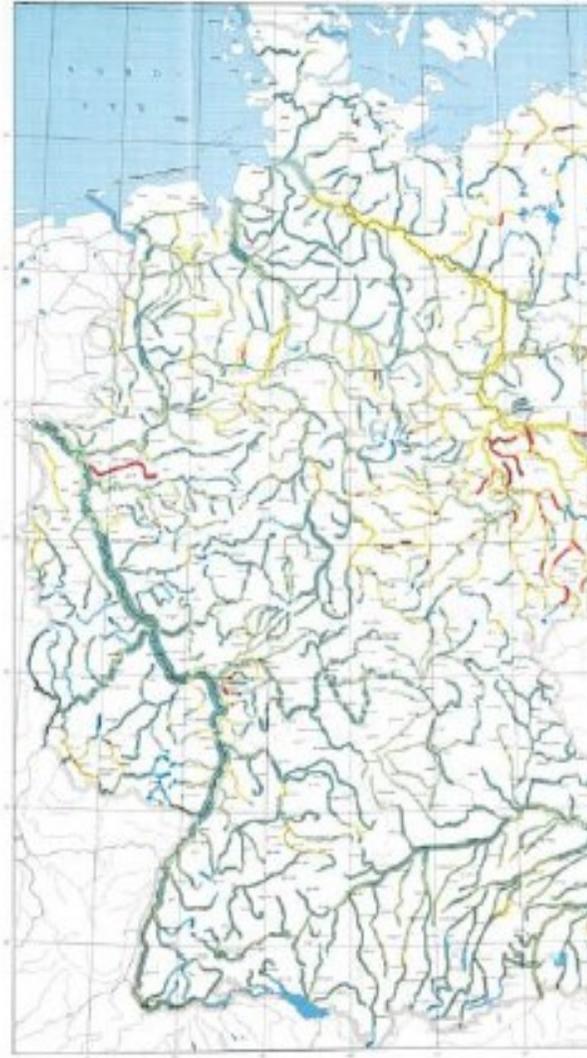


From a water quality focus to integrated assessments

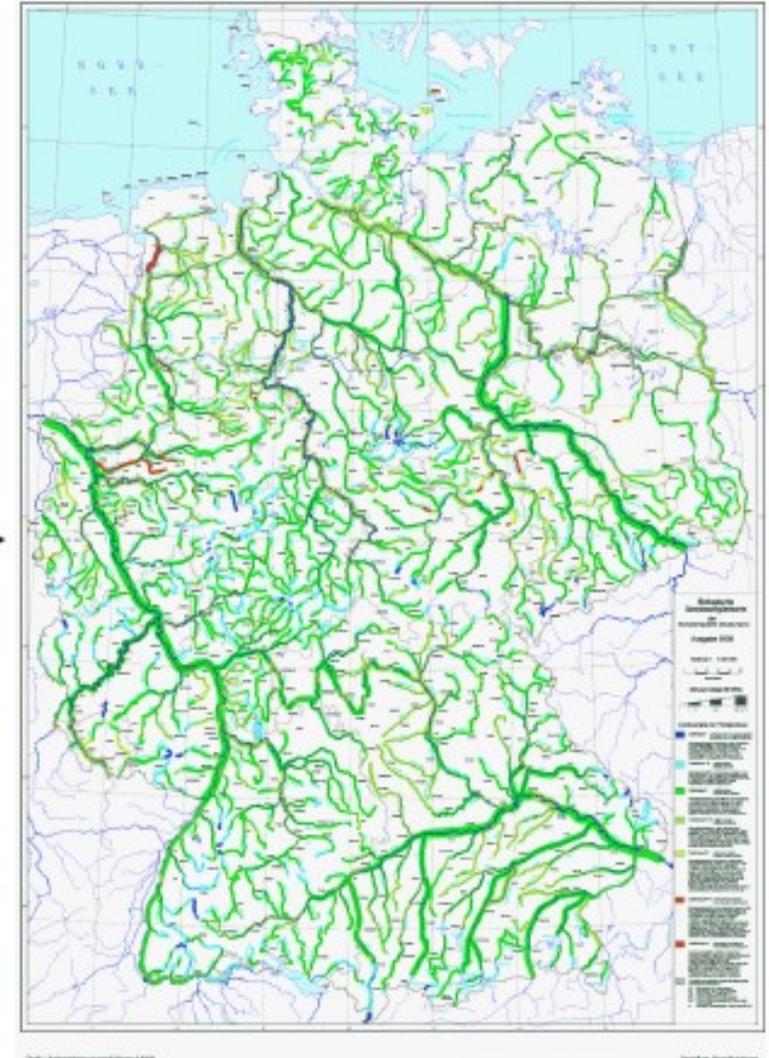
1976



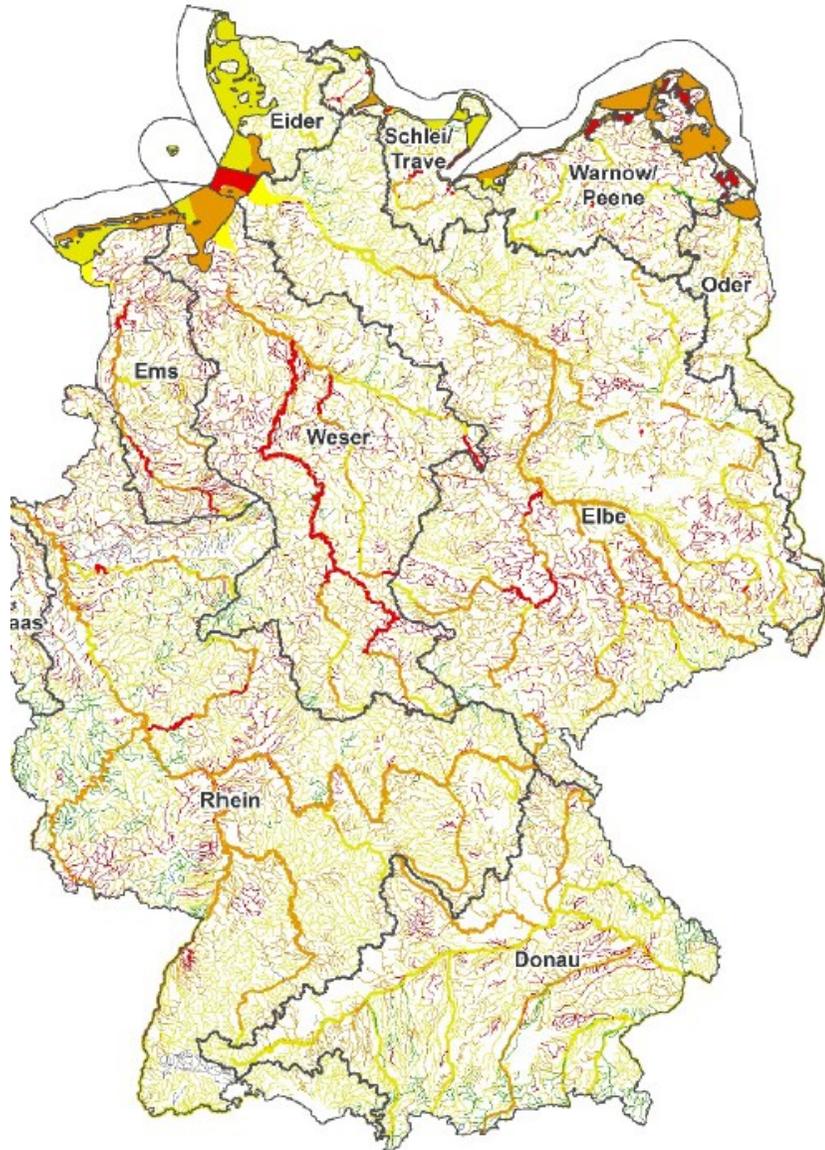
1990



2000



Ecological status after Water Framework Directive



Ecological status 2015

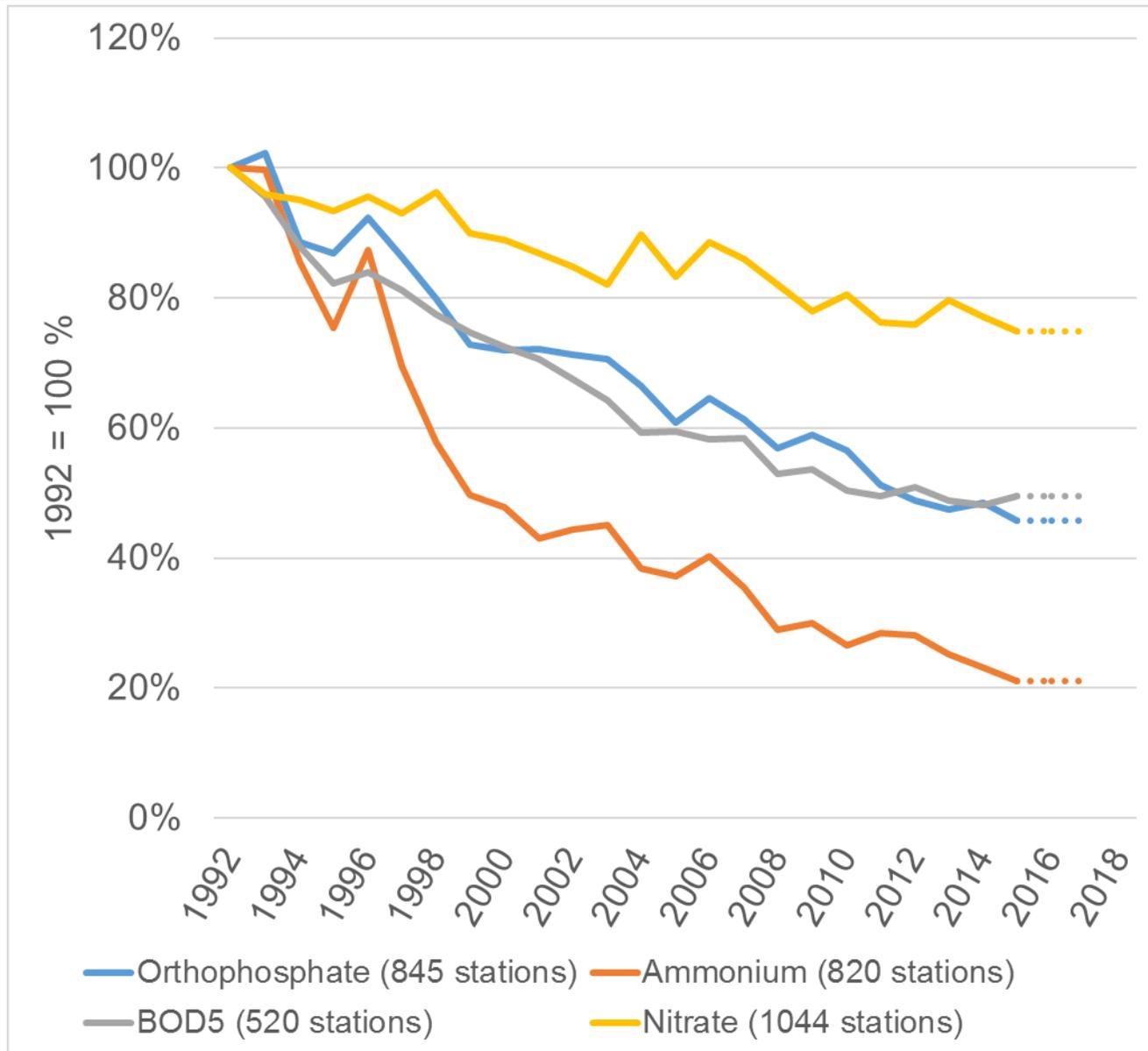
More pollutants

Ecosystem approach

One-out-all-out
principle



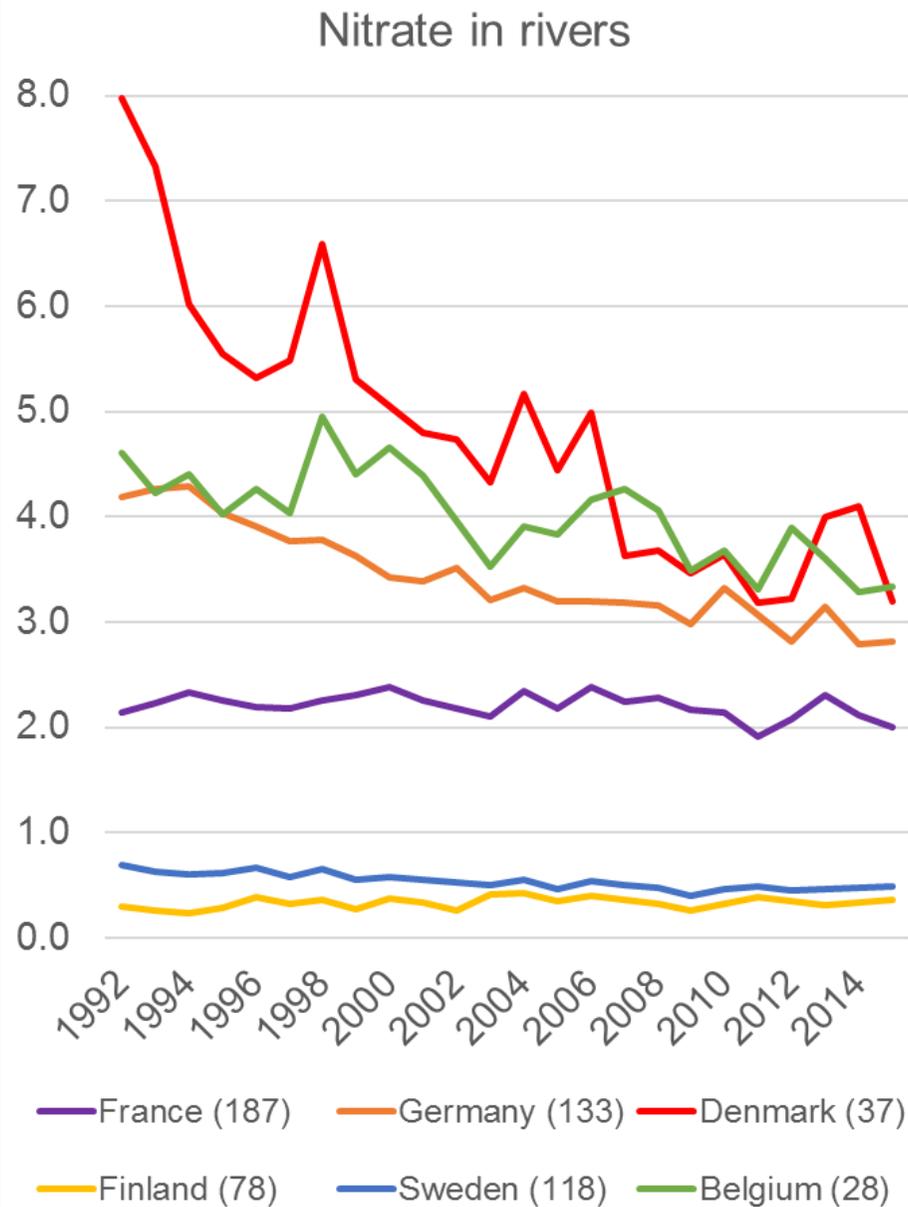
Trends in European river water quality



Nitrate
(from agriculture)
BOD5*
Orthophosphate
Ammonium
(from waste water)

*5-day biochemical oxygen demand

Trend in nitrate in rivers



Hydromorphological pressures are causing altered habitats and affecting the ecological status



Barriers and transverse structure

Morphological changes

Abstraction and flow regulation and water level regulation

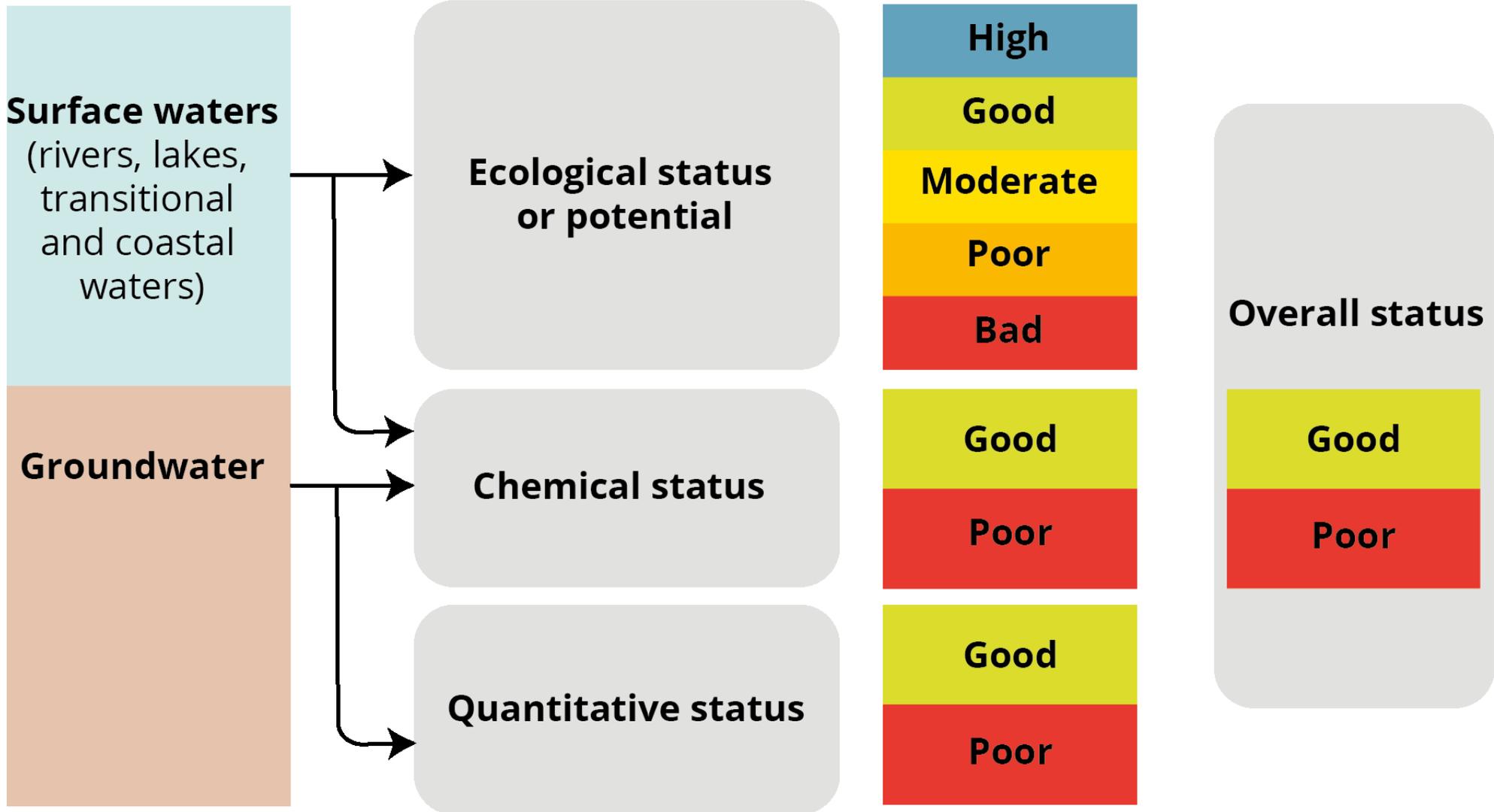


Pressures



3. Current status

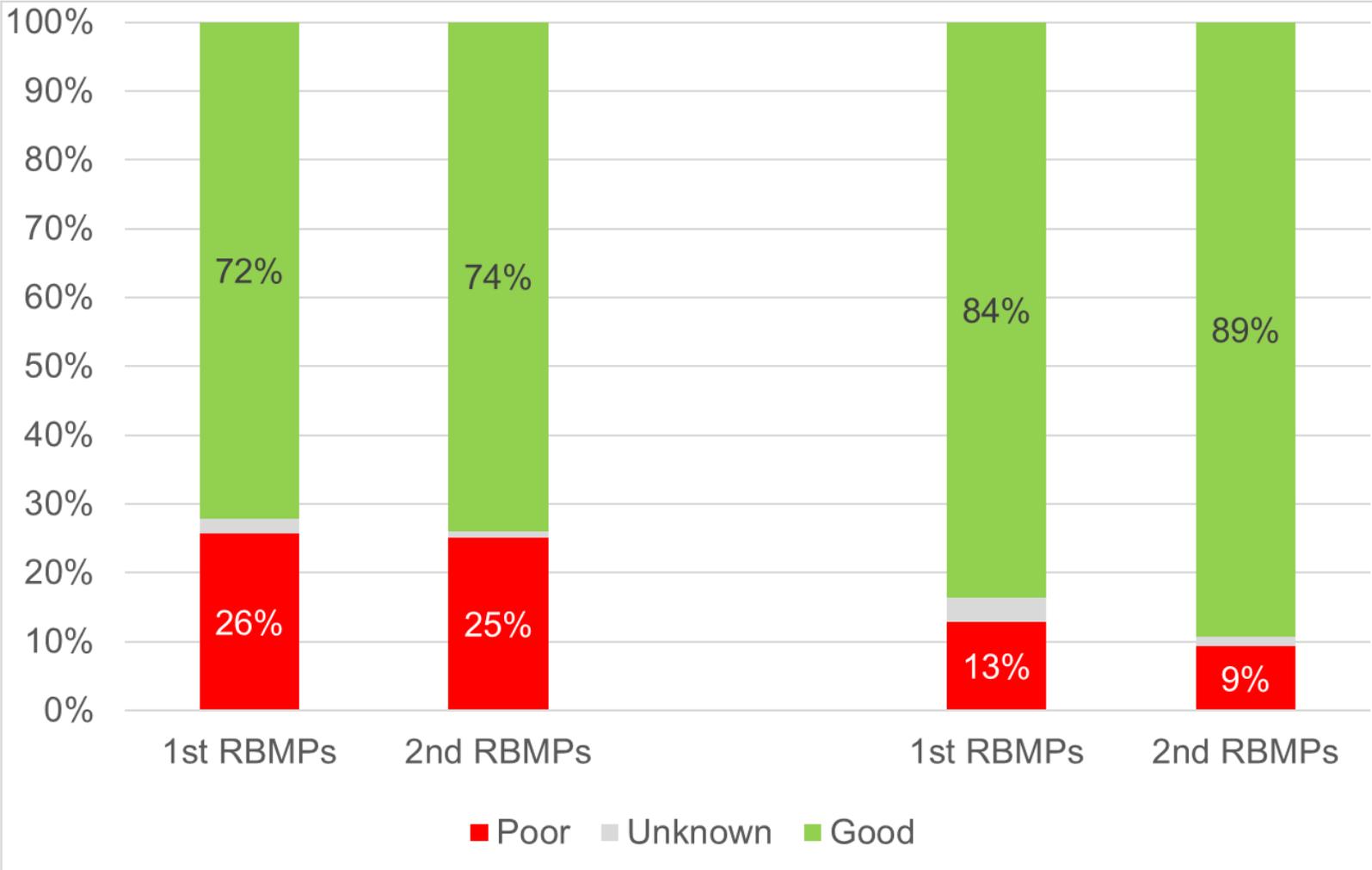
Four areas of assessment



Status of groundwater 1st and 2nd RBMPs

Chemical status

Quantitative status



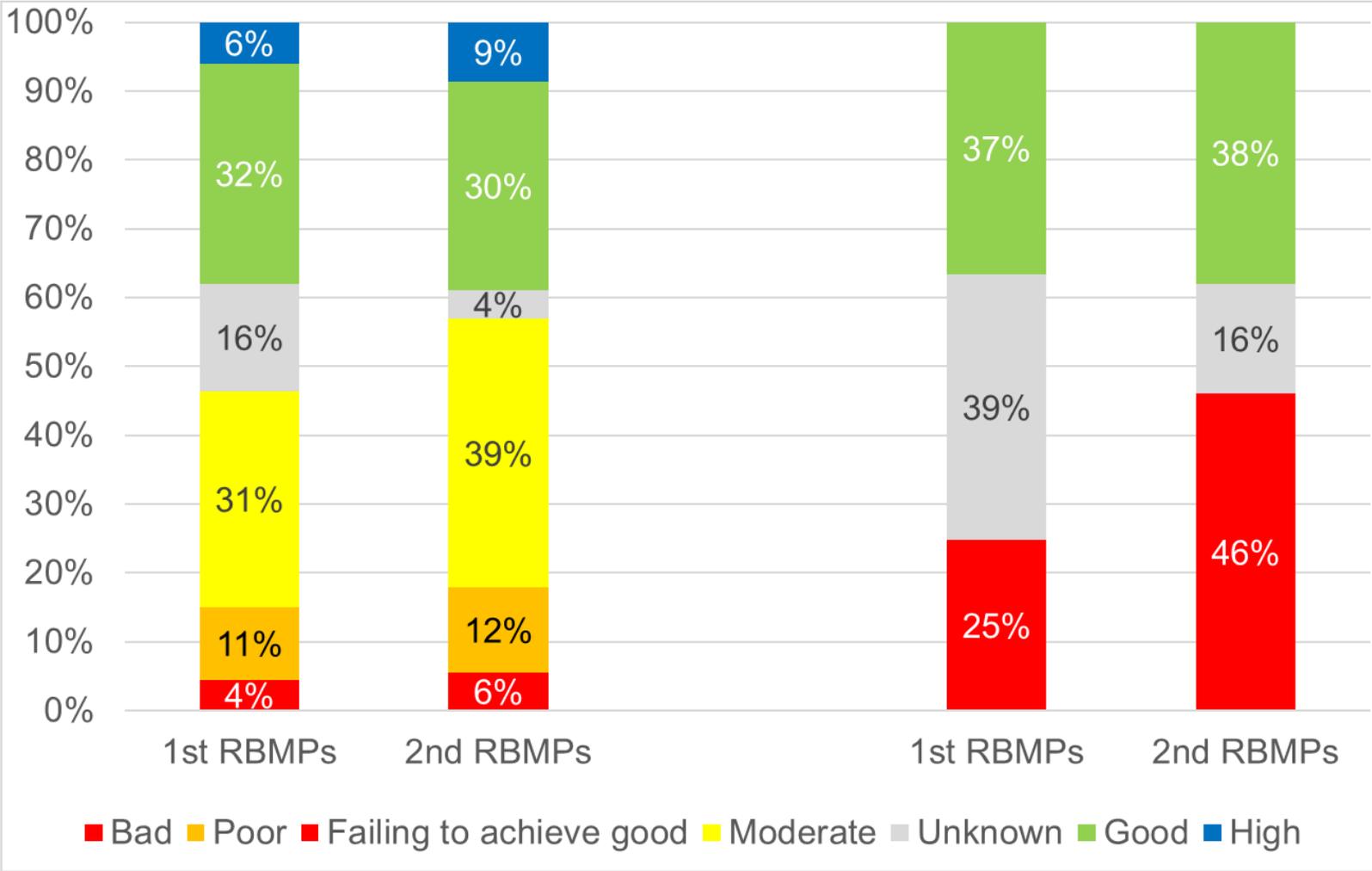
Source: Results from WFD first River Basin Management Plans (2009) and second River Basin Management Plans (2010-2015)



Status of surface water 1st and 2nd RBMPs

Ecological status

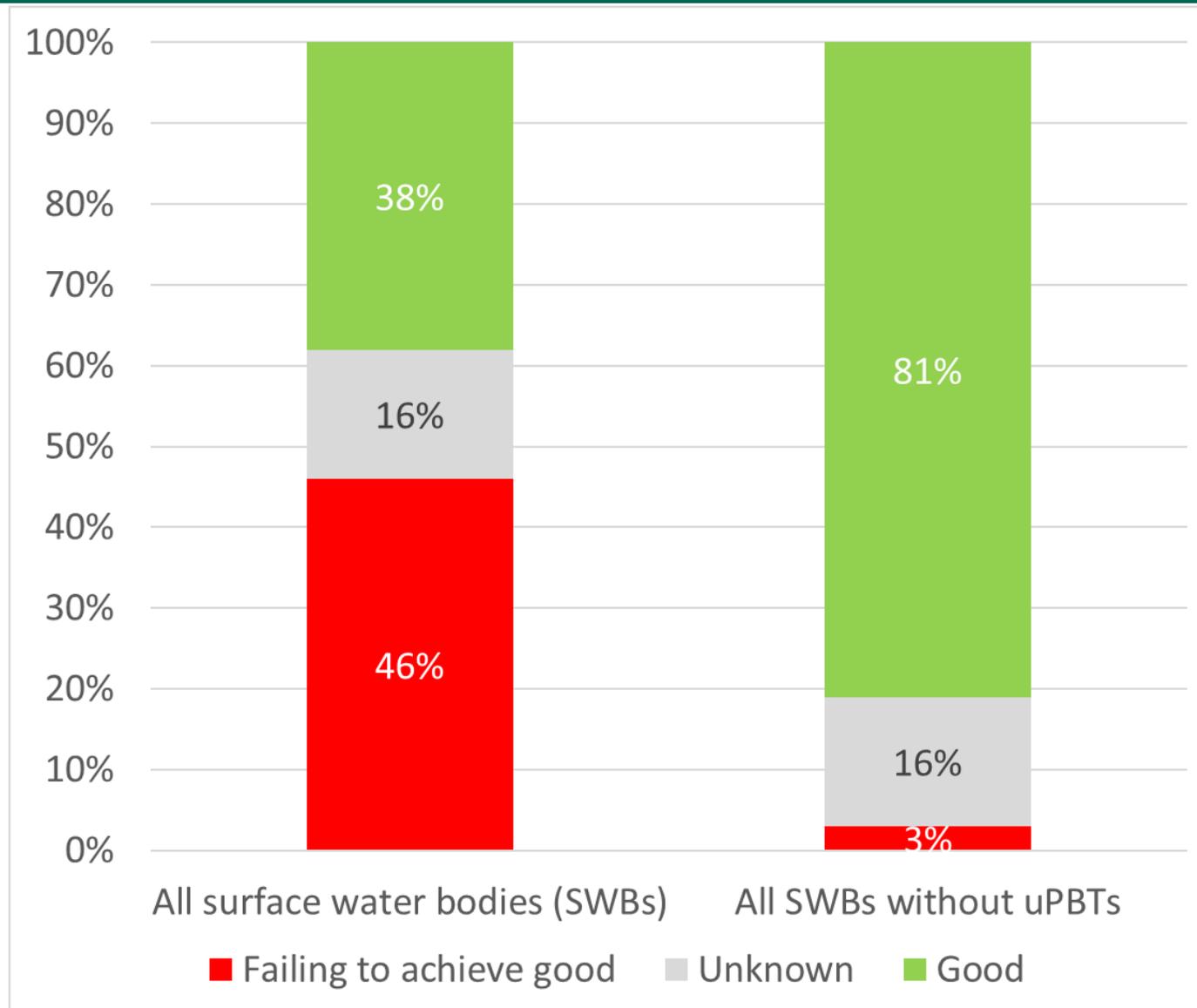
Chemical status



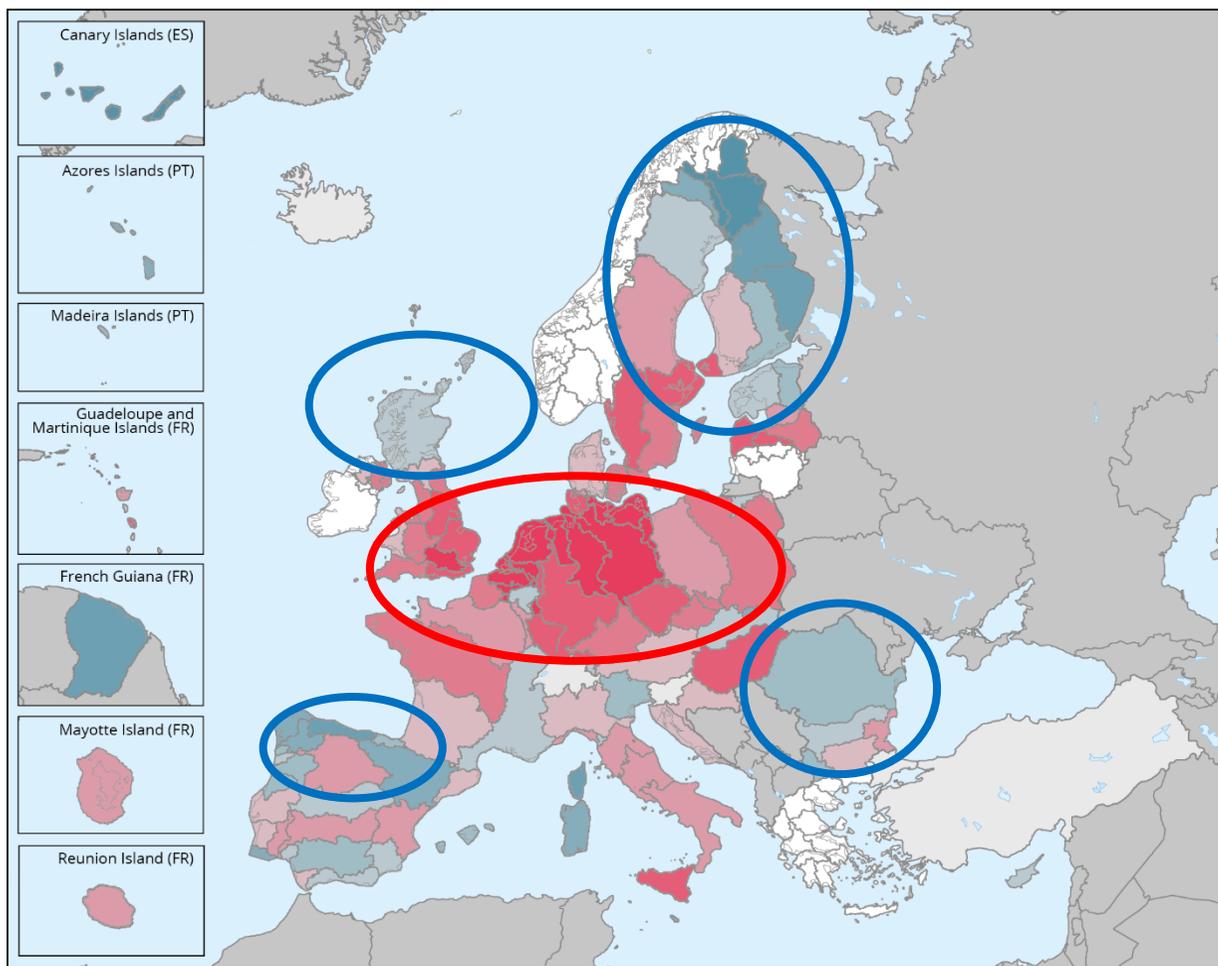
Source: Results from WFD first River Basin Management Plans (2009) and second River Basin Management Plans (2010-2015)



Surface water chemical status with and without uPBTs*



* Subset of 'ubiquitous, persistent, bioaccumulative and toxic' priority substances, mainly mercury

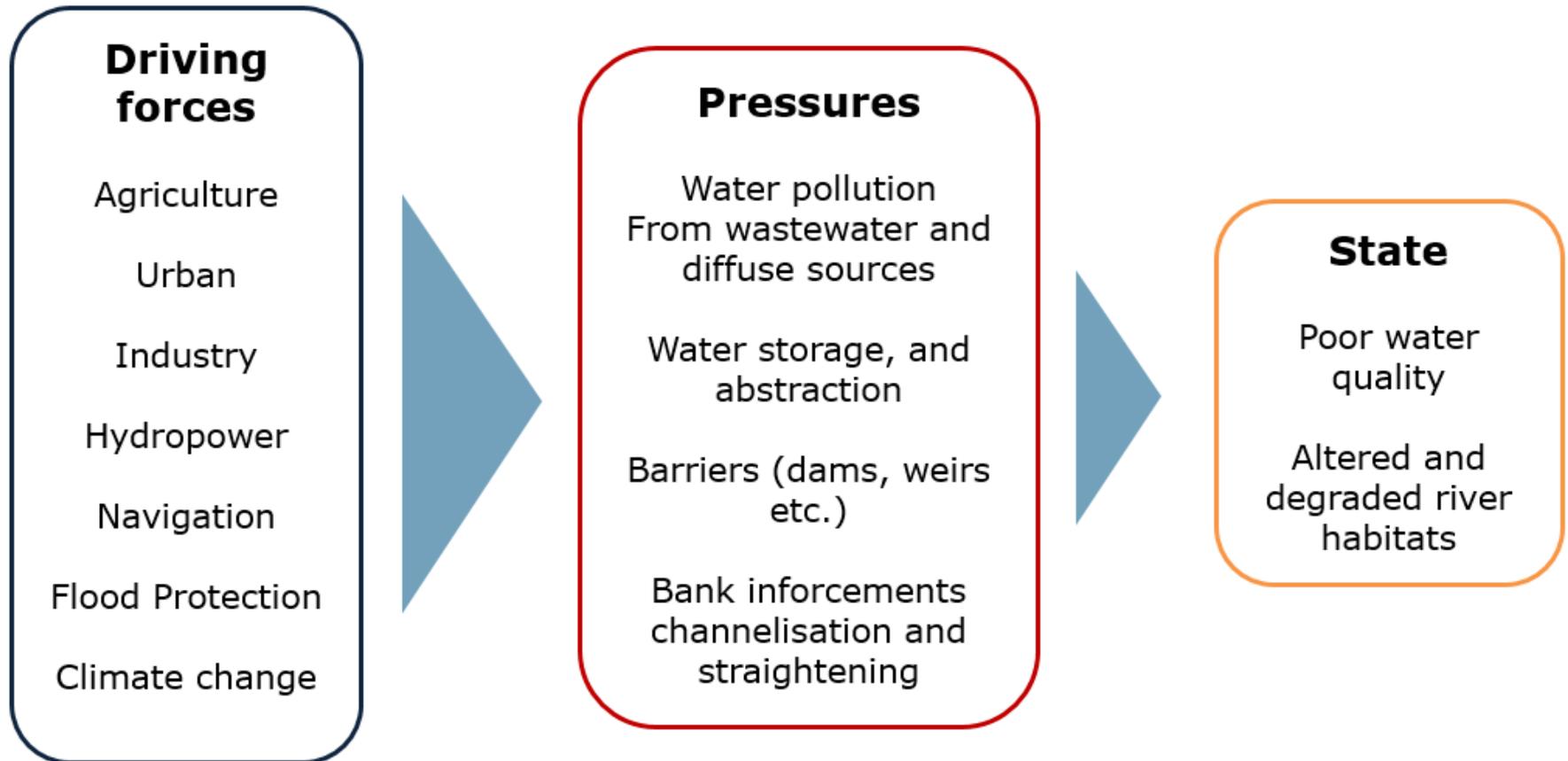


Percentage of water bodies not in good ecological status or potential per river basin district (RBD) in second RBMPs

0% 100% RBD areas without data No data Outside coverage



Challenges remain



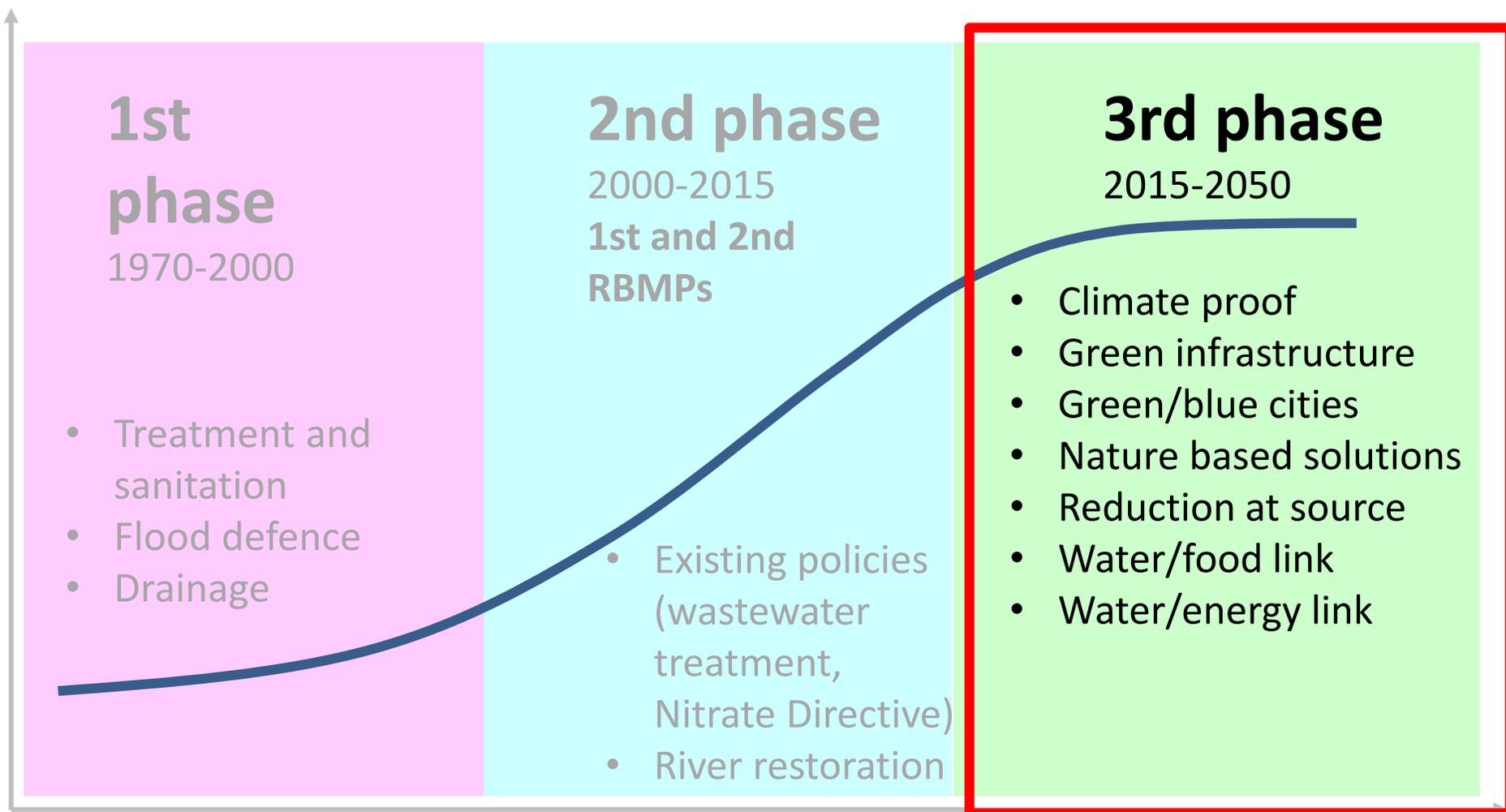
Main pressures — 2nd RBMPs



4. Looking ahead

Water management — investing in natural capital

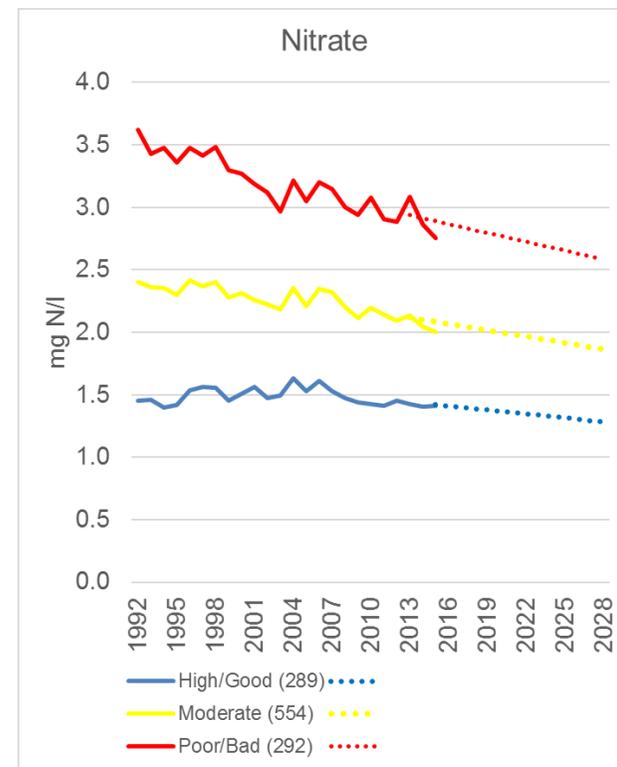
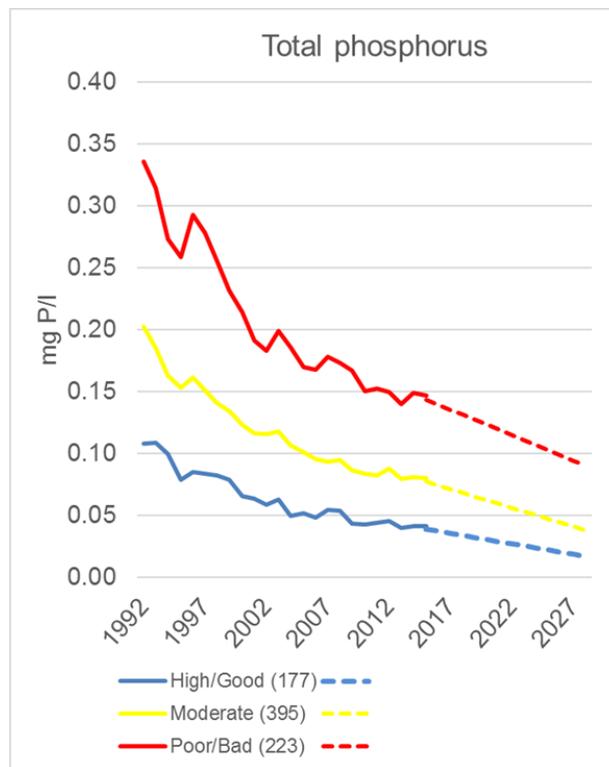
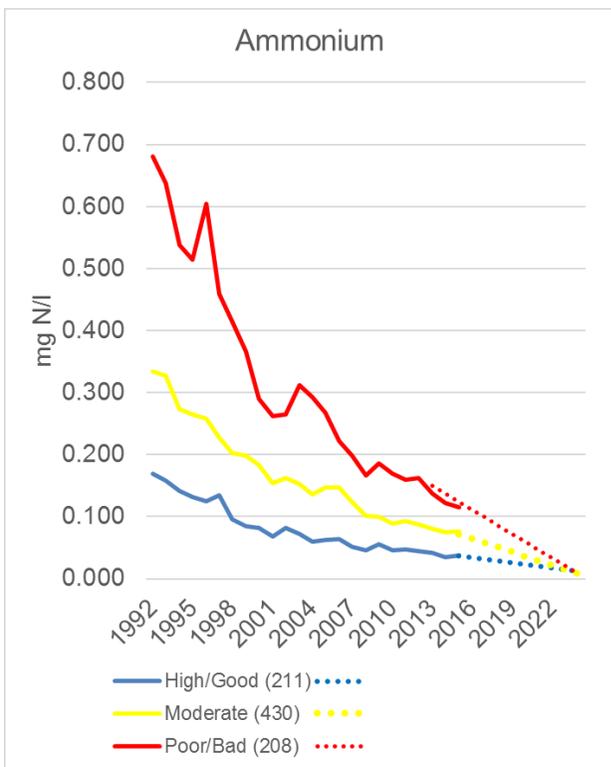
Sustainability



Time



Water quality by ecological status classes



Room for the river — working with nature

**Good water
status**

**Flood
regulations**



**Ecosystem
services**

**Economic/
recreational
value**

**Aesthetic
values**



Pressures and challenges 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;
- Through the **most extensive data gathering** exercise ever in Europe, we have found **weaknesses in reporting**.



5. Fitness check of WFD and floods directive, evaluation of WFD implementation

Evaluation of WFD and fitness check

- EEA state of water report
- Commission reports on implementation of WFD and Floods Directive (+55 products) - soon
 - Commission Communication
 - Commission Staff Working Documents – European overviews
 - (28) Member State specific in-depth assessments
 - Reports on international RBMPs
- Fitness check (website) consultation runs until 4 March 2019
- 22 December Member States to report progress in implementation of 2nd RBMPs Program of Measures
- 2019-2021 Drafting, consultation and publishing 3rd RBMPs
- Revision of WFD?

Thanks for listening. Questions?



Peter.Kristensen@eea.europa.eu

Thanks to Member States, reporters, colleagues in DG Environment, ETC-ICM, IT consultants and at EEA