Report on industrial waste water in Europe







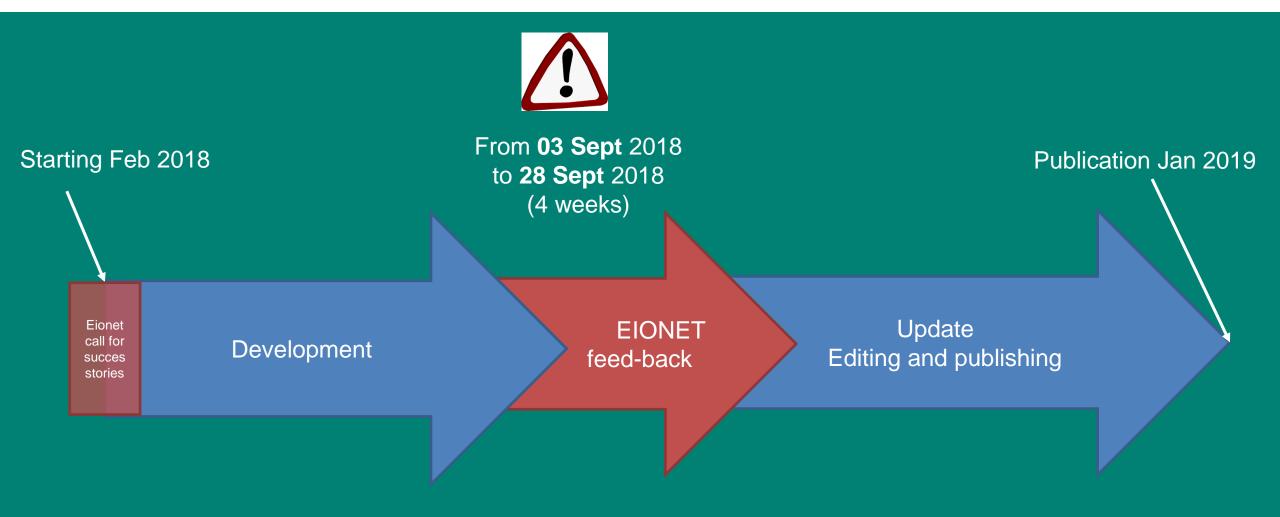
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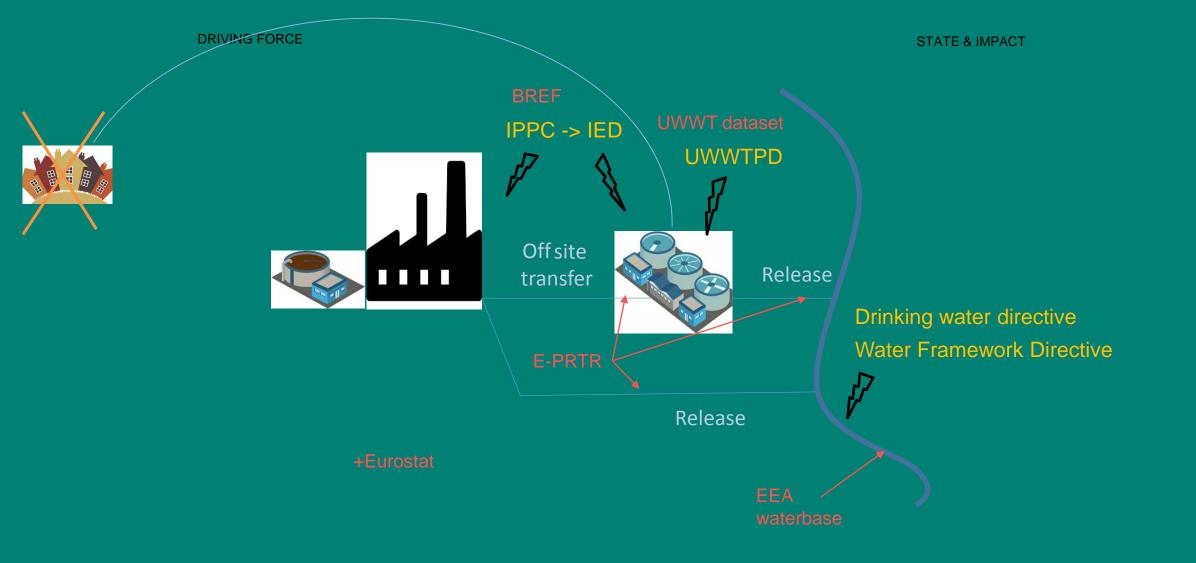


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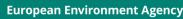
Timeline













Scope

- This study includes manufacturing industry, energy supply, Mining and quarrying, waste but excludes agriculture (e.g intensive rearing of poultry or pigs)...
- = « industrial activities »
- Storm water management has been excluded from the scope of the study
- Concentrates on the EU-28 Member States due to a lack of consistent data

Sectors	Sub-sectors	included in the study
Agriculture	Livestock	No
	Crops	No
	Energy use	No
Mining and quarrying	-	Yes
Manufacturing industry	Iron and steel	Yes
	Non-ferrous metal	Yes
	Non-metallic minerals	Yes
	Chemicals	Yes
	Pulp, paper and wood	Yes
	Food and drink	Yes
	Other manufacturing	Yes
Energy supply	-	Yes
Waste	Waste management	Yes
	Wastewater treatment	Yes
Transport	Road transport	No
	Non-road transport	No
	International aviation	No
	International shipping	No
Residential & Commercial (construction, services)		No

EEA objectives

Highlight the stress from industrial activities in water pollution

State of play regarding off-site transfer and releases of wastewater by industry in Europe

Targets an informed but non-expert public

Give inputs to the currently ongoing fitness check on the EU legislation regarding wastewater

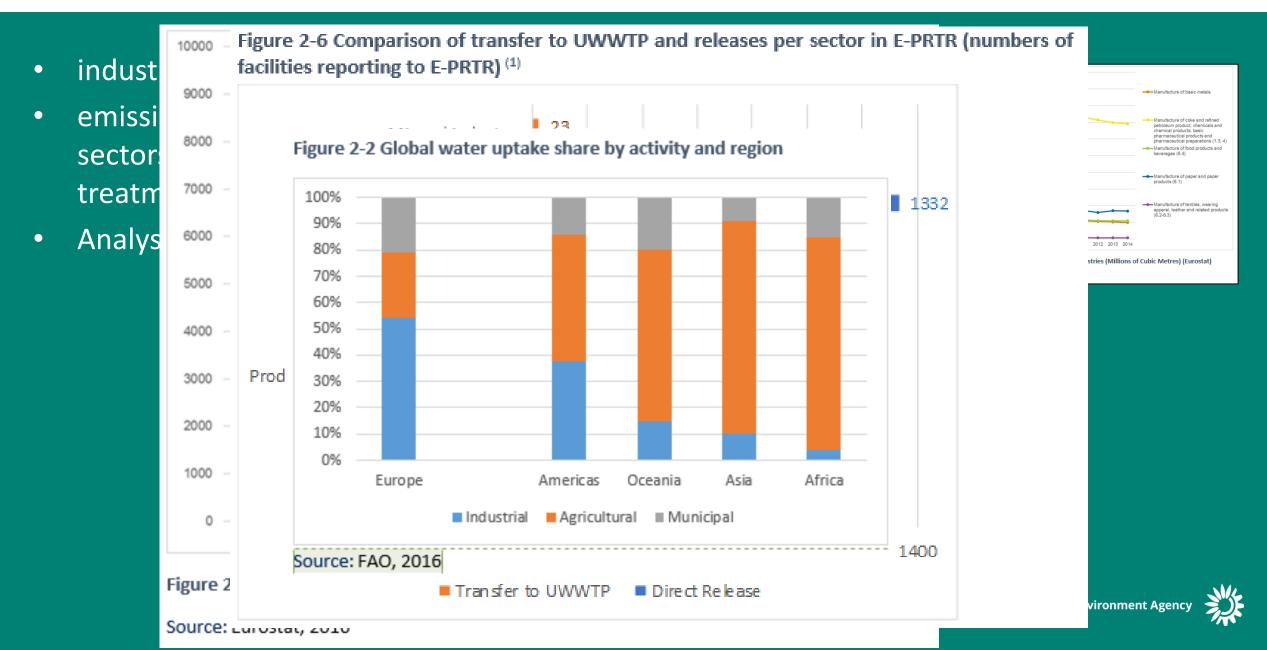


- E-PRTR, BREFs, WISE SoE...
- USEtox factors -> in order to aggregate pollutants by level of ecotoxicity
- Contributions from countries on innovative practices
 7 countries answered (BiH, XK, IE, ES, SE, DE, HU)
 -> 26 examples

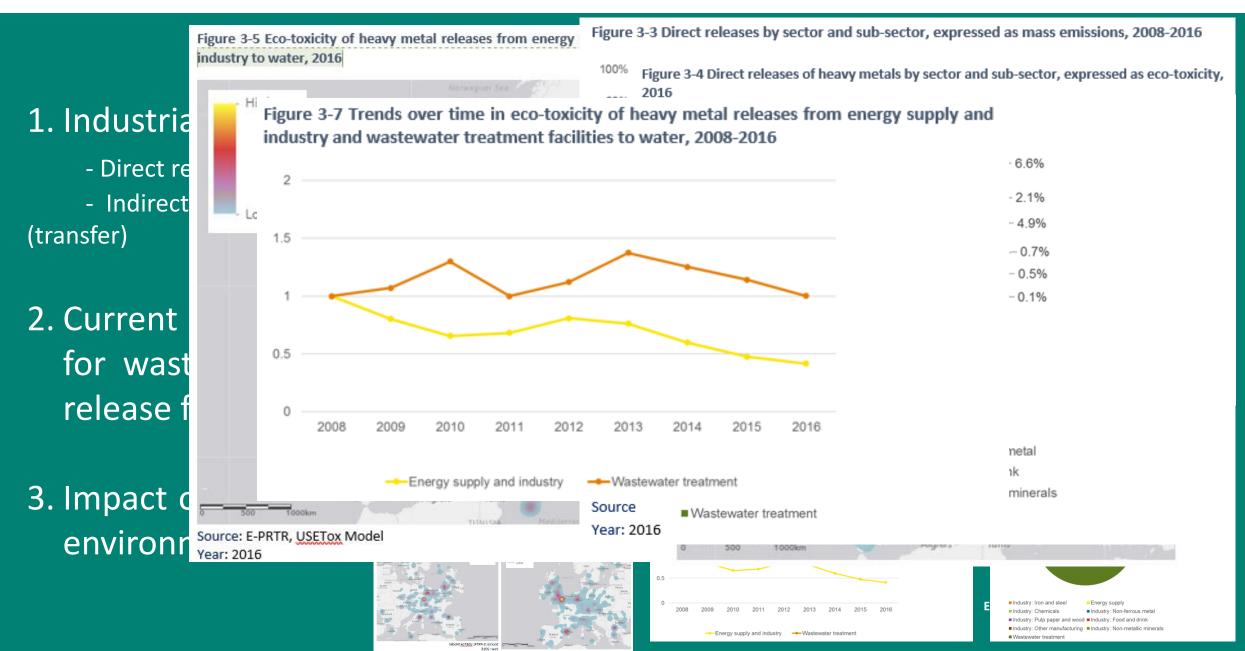




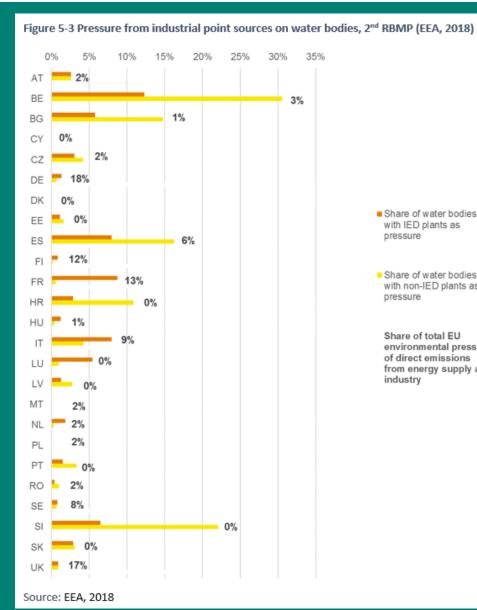
Industrial water cycle



Industrial waste water emissions



Current challenges



Share of water bodies with IED plants as pressure

Share of water bodies with non-IED plants as pressure

Share of total EU environmental pressure of direct emissions from energy supply and industry

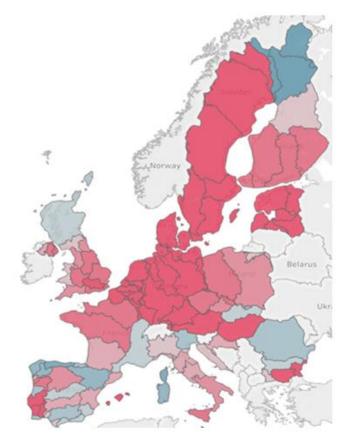
European Environment Agency



Current challenges

Figure 5-4 Environmental pressures of direct releases from wastewater Figure 5-5 Water bodies failing to achieve good surface water status, by RBD treatment to water, 2016





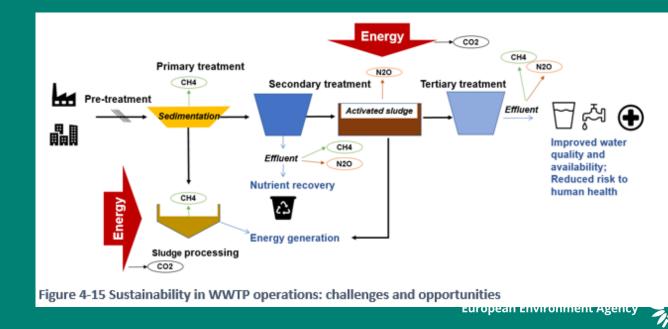
European Environment Agency

Waste water treatment options

- 1. Current approaches and techniques in industrial installations and urban waste water treatment plants
- 2. Novel and emerging techniques in waste water treatment plants



3. Sustainability in WWTP operations



Conclusions and Recommendations

- UWWTP potential improvement
- Assessment of knowledge gaps
- Reporting/data

- Independently operated WWTP to be declared to assess whether it should be encouraged regarding specific chalenges or lack of capacity

- Quality can be improve on transfers data (do not declare as direct releases)



Contact details



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