

Use of E-PRTR data at EEA

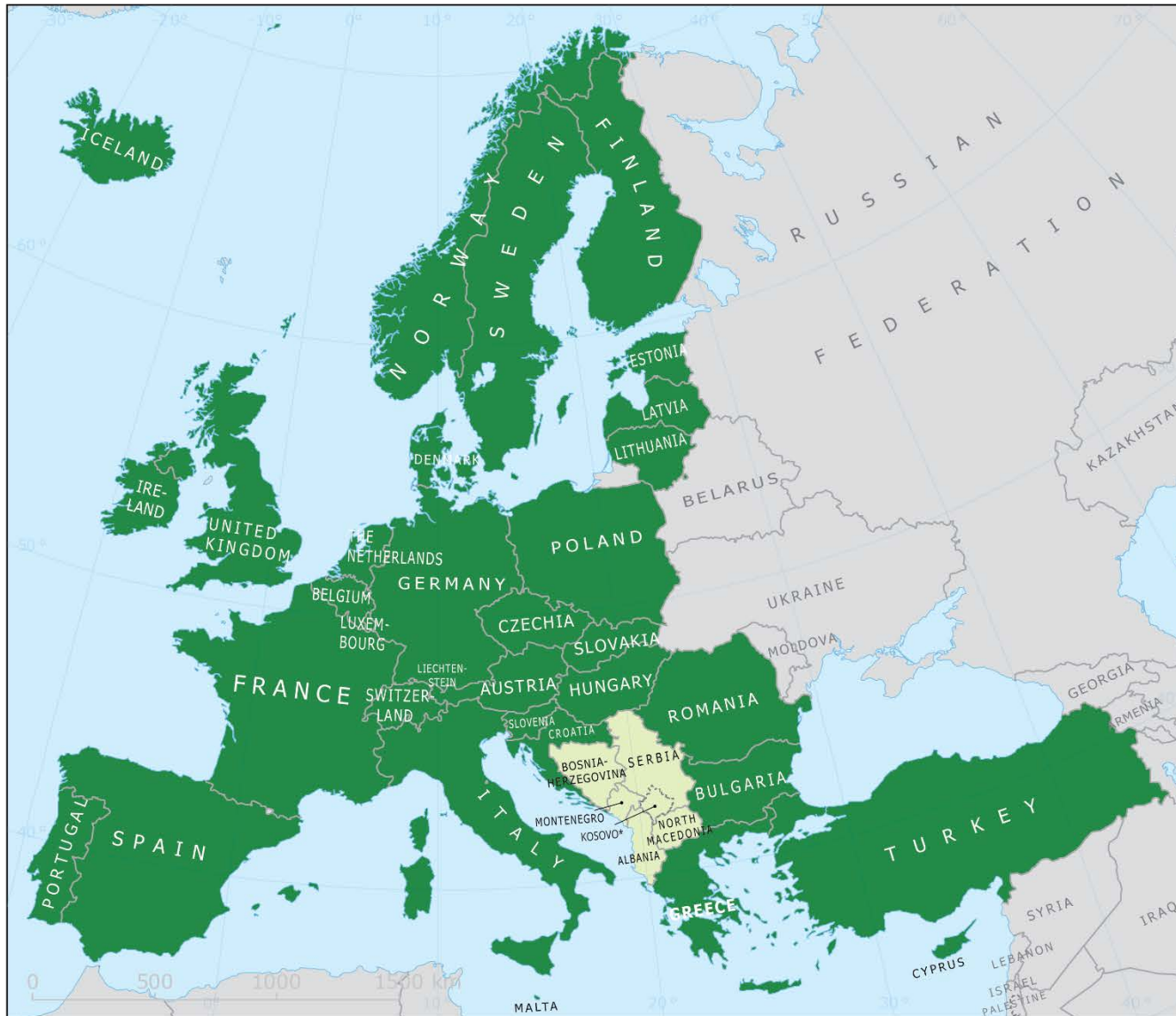


The European Environment Agency

- Established in 1990
- Independent EU agency
- Analysing, assessing and providing information
- Interface between science and policy



Map of EEA countries



EEA member and cooperating countries

- Member countries
- Cooperating countries

*Kosovo under UNSCR 1244/99

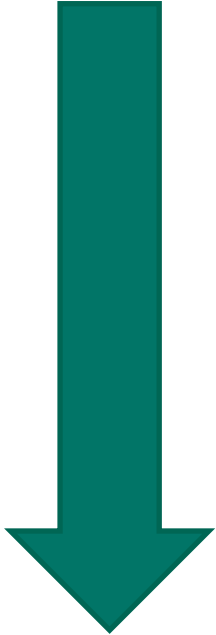


Public access and informed decision-making

- The EEA's key goal is to provide objective, reliable and comparable environmental information
- Kiev Protocol objective is "to enhance public access to information through the establishment of coherent, nationwide pollutant release and transfer registers (PRTRs)"

Relevant public EEA products

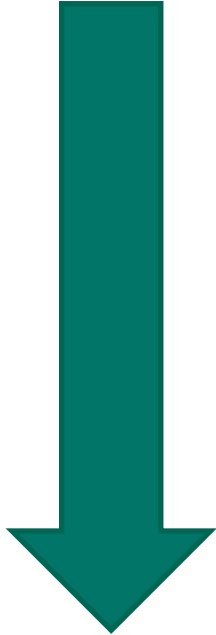
Raw data



Interpretation

- Datasets
- Indicators
- Country profiles
- Briefings
- Reports

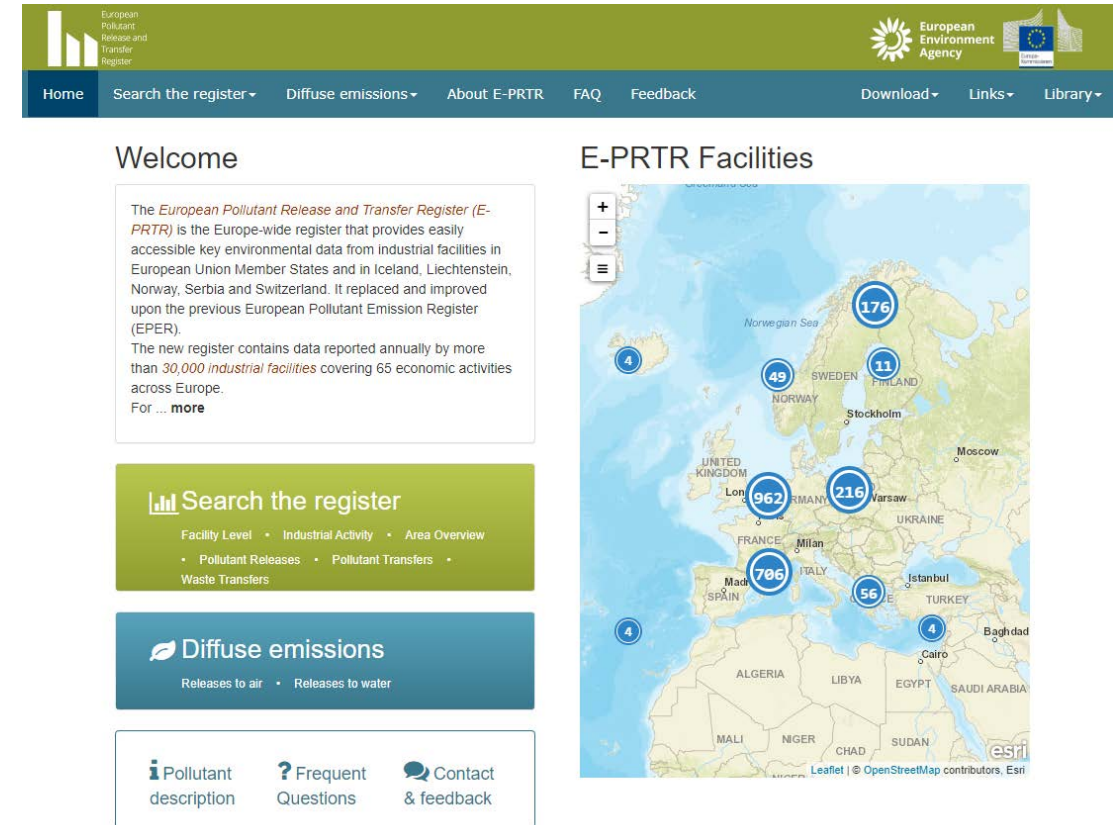
Data



Knowledge

Datasets

- E-PRTR website
 - Map search or tables
 - Various queries (facilities, pollutants, activities)
 - Diffuse emissions
- E-PRTR dataset
 - MS Access or csv
 - MS Excel summary
 - KML for Google Earth

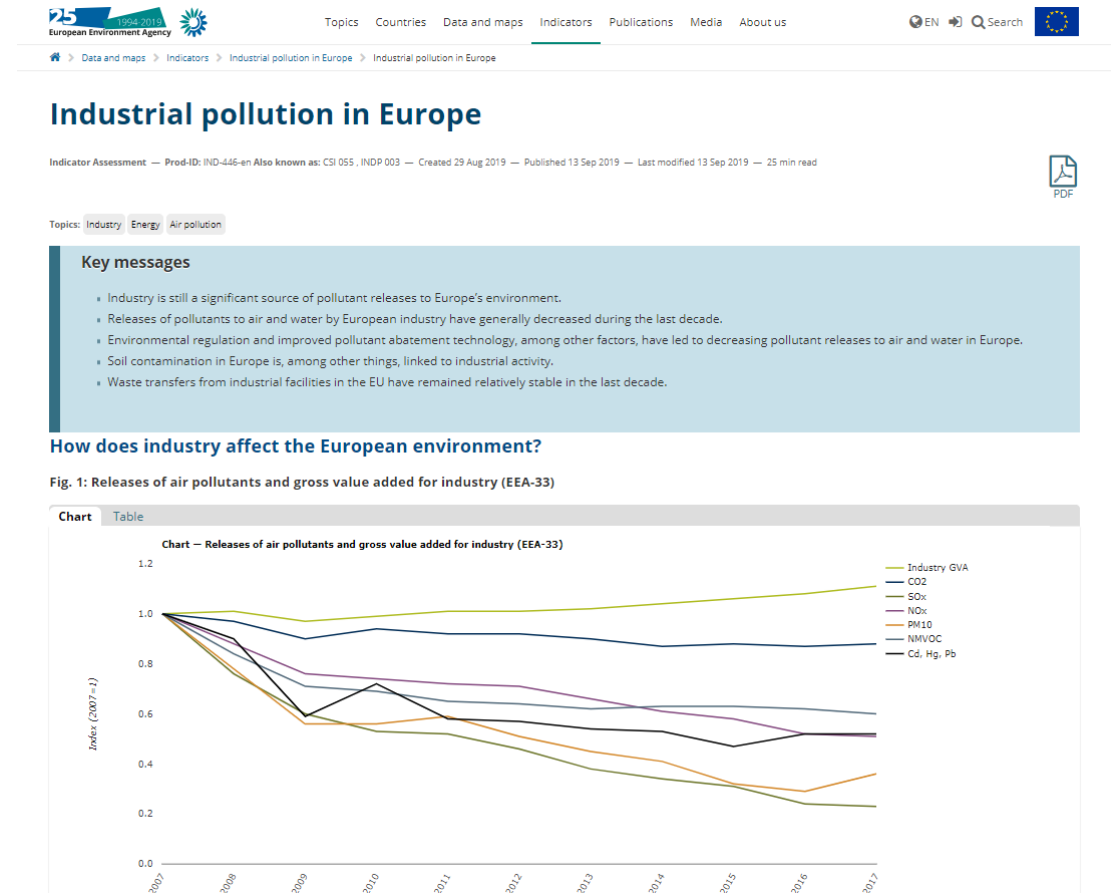


The screenshot shows the E-PRTR website interface. The header includes the European Pollutant Release and Transfer Register logo and the European Environment Agency logo. The navigation bar contains links: Home, Search the register, Diffuse emissions, About E-PRTR, FAQ, Feedback, Download, Links, and Library. The main content area is divided into two columns. The left column has a 'Welcome' section with a text block about the register, followed by a 'Search the register' section with a bar chart icon and a list of search criteria: Facility Level, Industrial Activity, Area Overview, Pollutant Releases, Pollutant Transfers, and Waste Transfers. Below this is a 'Diffuse emissions' section with a leaf icon and a list of release types: Releases to air and Releases to water. At the bottom of the left column are three links: Pollutant description, Frequent Questions, and Contact & feedback. The right column features a map titled 'E-PRTR Facilities' showing the distribution of facilities across Europe and the Middle East, with blue circles indicating the number of facilities in various countries like Sweden (176), Germany (962), France (796), and others.



Indicators – trends for public and decision-makers

- [Industrial pollution in Europe](#)
- [Industrial waste in Europe](#)
- European Commission IED indicator tool ([report](#); [tool](#))



Industrial pollution country profiles

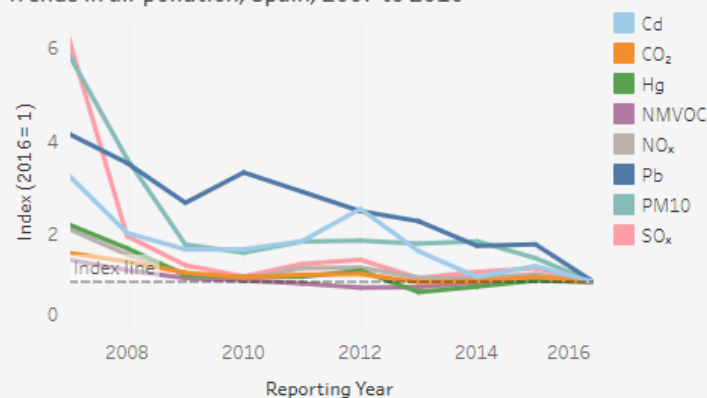
▼ < Select country At a glance Significance of industry Contribution to air pollution Trends in air pollution Contribution to water pollution >

At a glance

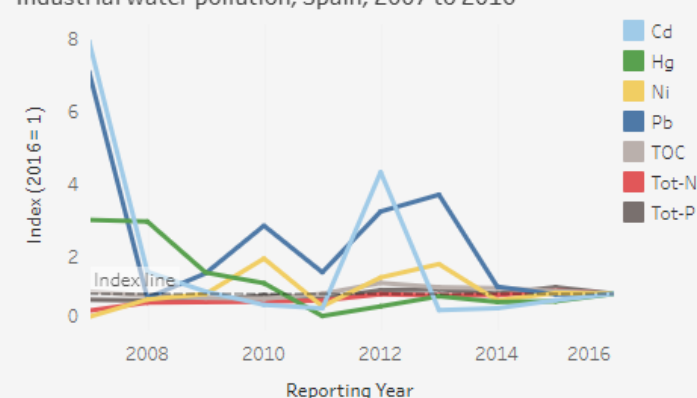
In 2016, industry in Spain was responsible for
21.82 % of energy consumed,
18.08 % of gross value added (GVA)
and 27.37% of water used.



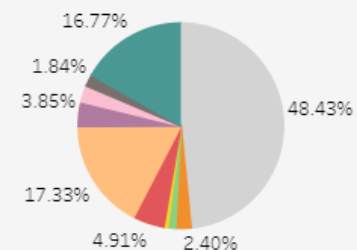
Trends in air pollution, Spain, 2007 to 2016



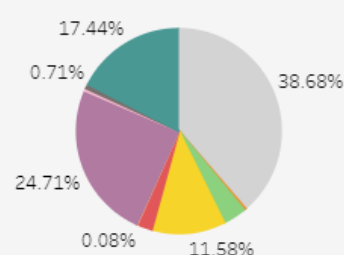
Industrial water pollution, Spain, 2007 to 2016



Non-hazardous waste, Spain, 2014



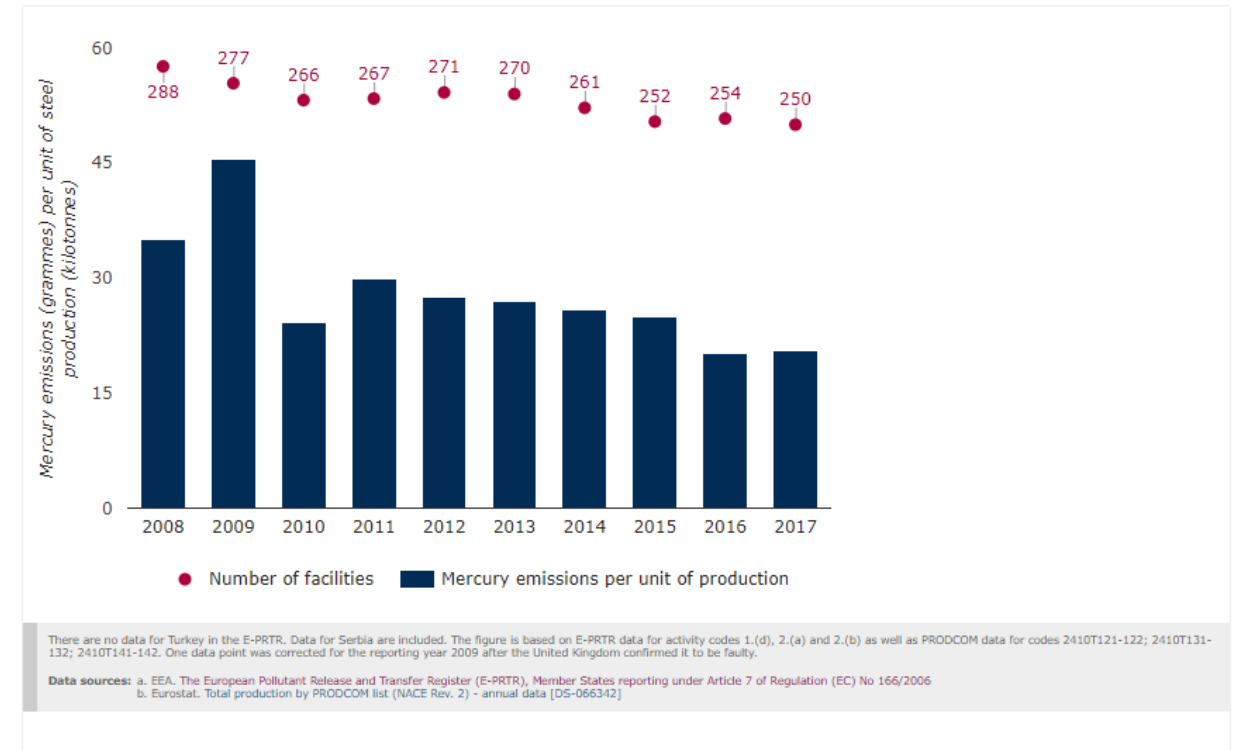
Hazardous waste, Spain, 2014



Briefings – feed public debate

- Top polluters briefing
- Environmental pressures of heavy metal releases
- Greening the power sector
- A decade of industrial pollution data

Figure 1. Mercury emissions per unit of steel production and number of facilities reporting to the E-PRTR in the EEA-33 countries



Reports – evidence for policy making

- Damage cost of industrial air pollution
- Industrial waste water treatment
- Assessing the effectiveness of EU policy on large combustion plants in reducing air pollutant emissions
- European Commission reports using E-PRTR data:
 - Ex-post CBA of Iron and Steel BAT conclusions
 - IED country profiles

EEA Report – Damage cost of industrial air pollution

Total damage costs in 2012:

€ 59 billion (and up to € 189 billion)

Main air pollutants

(NH₃, NO_x, PM₁₀, SO₂, NMVOCs)

€ 40 billion

(and up to € 115 billion)

Carbon dioxide

€ 18 billion

(and up to € 73 billion)

Heavy metals

(As, Cd, Cr, Hg, Ni, Pb)

€ 0.34 billion

Organic pollutants

(benzene, dioxins, furans, PAHs)

€ 0.10 billion

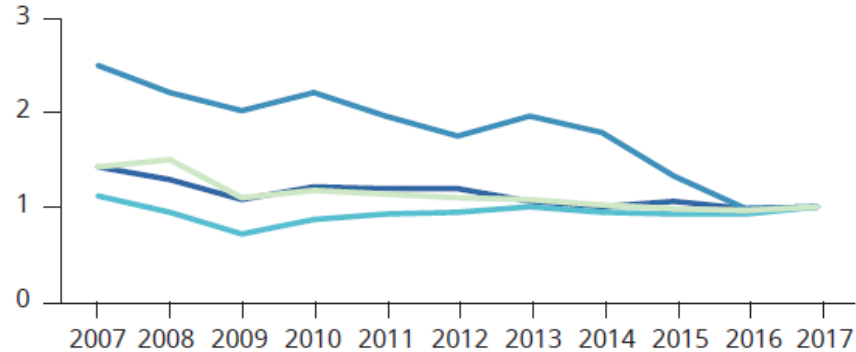


€ 115
per capita
(and up to € 368)

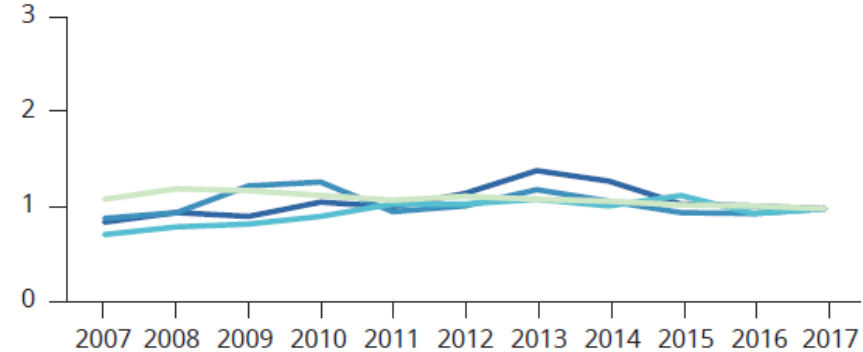


EEA Report - Industrial waste water treatment

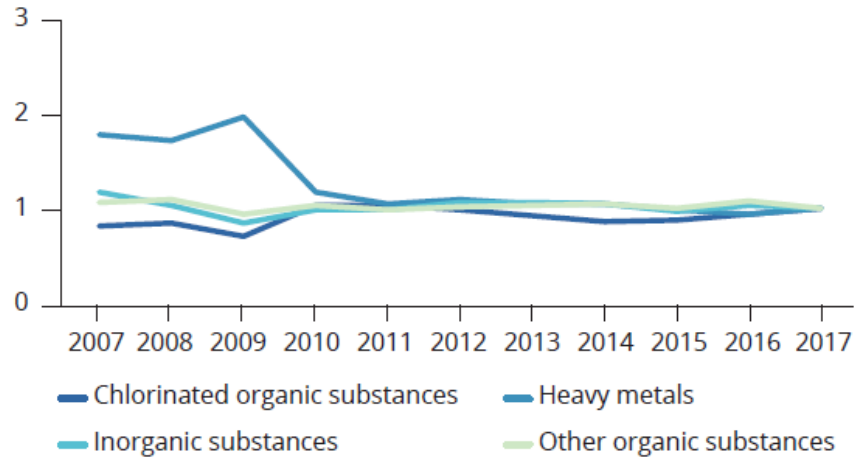
Direct releases by industry
Index (2017=1)



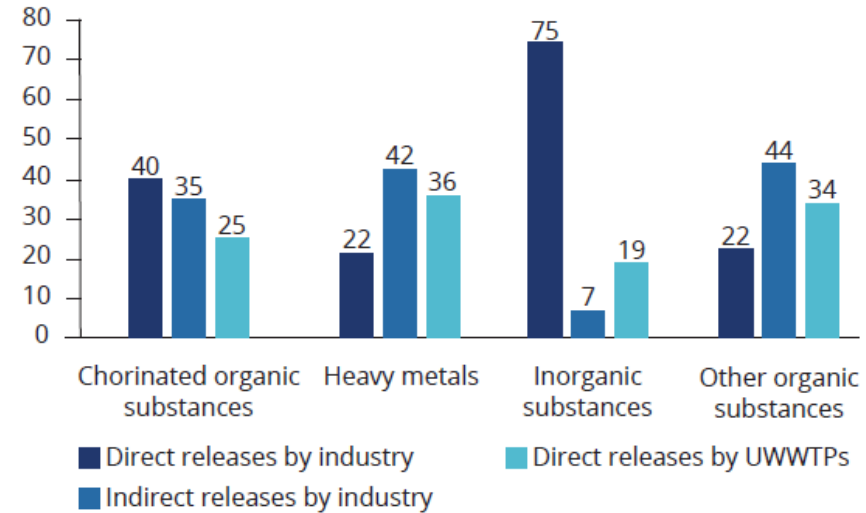
Direct releases by UWWTPs
Index (2017=1)



Indirect releases by industry
Index (2017=1)



Total reported releases (%)



Thanks everyone!



**European
Environment
Agency**

Bastian Zeiger

Expert – Industry and Environment

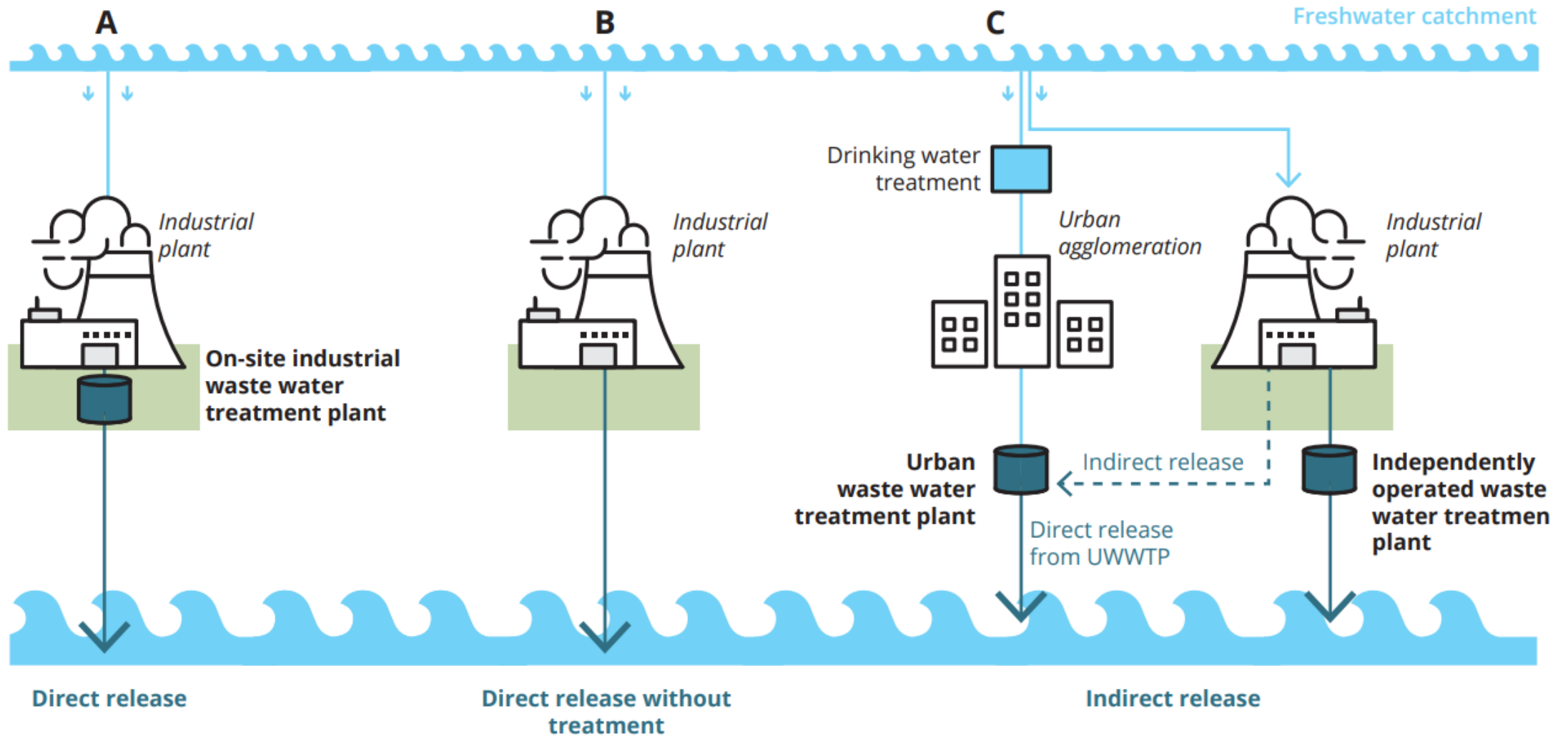
bastian.zeiger@eea.europa.eu

Phone: +45 3336 7233

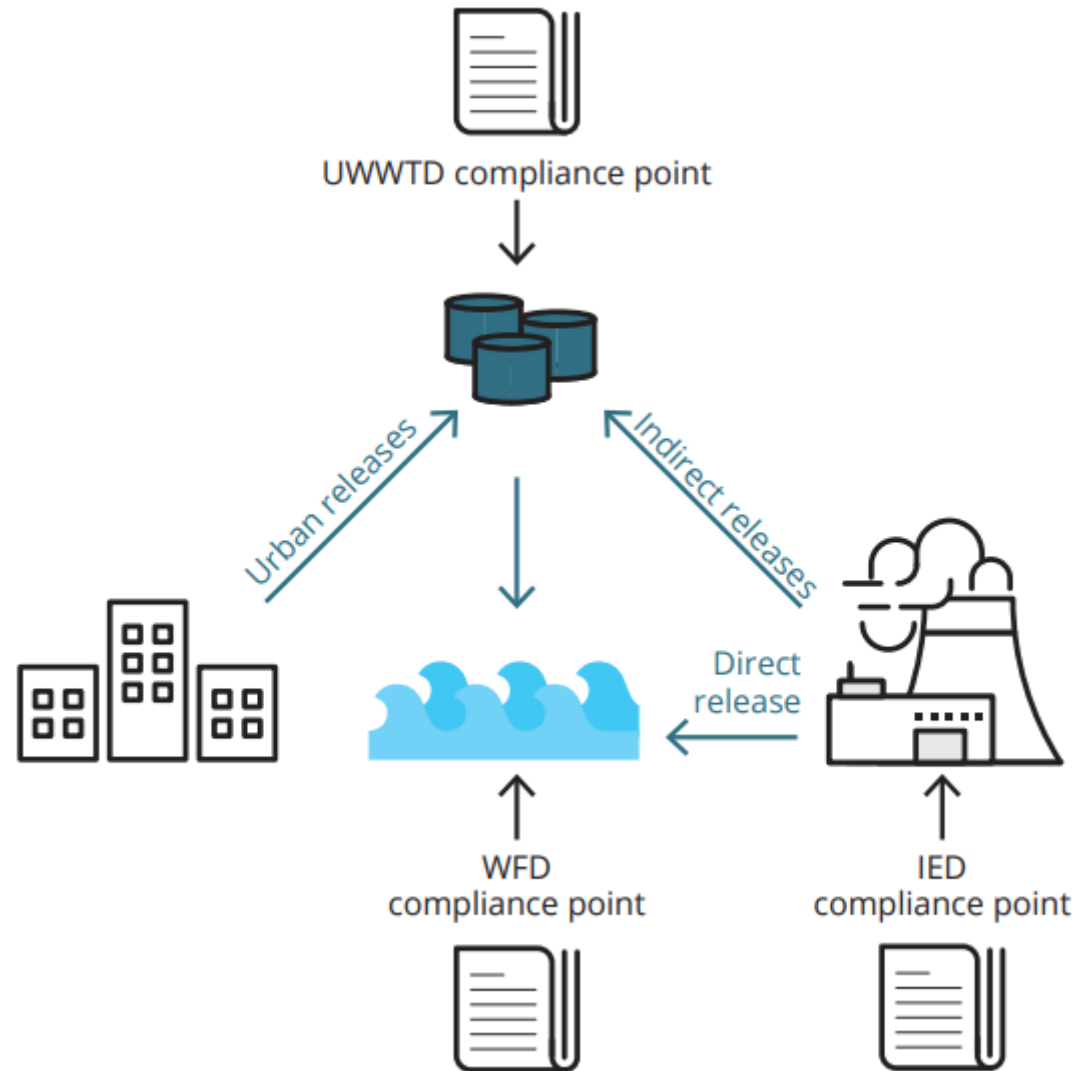
Skype: Bastian_EEA

eea.europa.eu/themes/industry

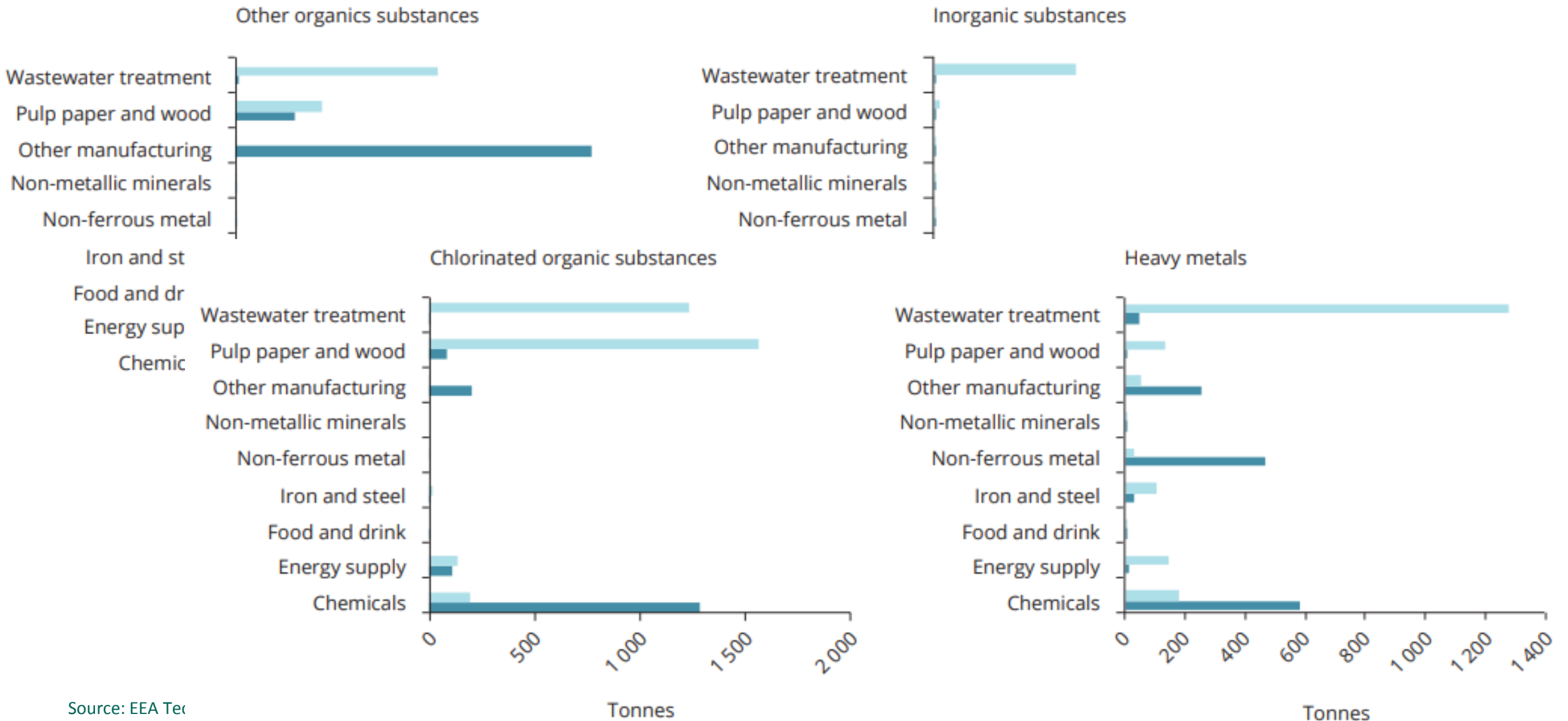
The waste water treatment cycle



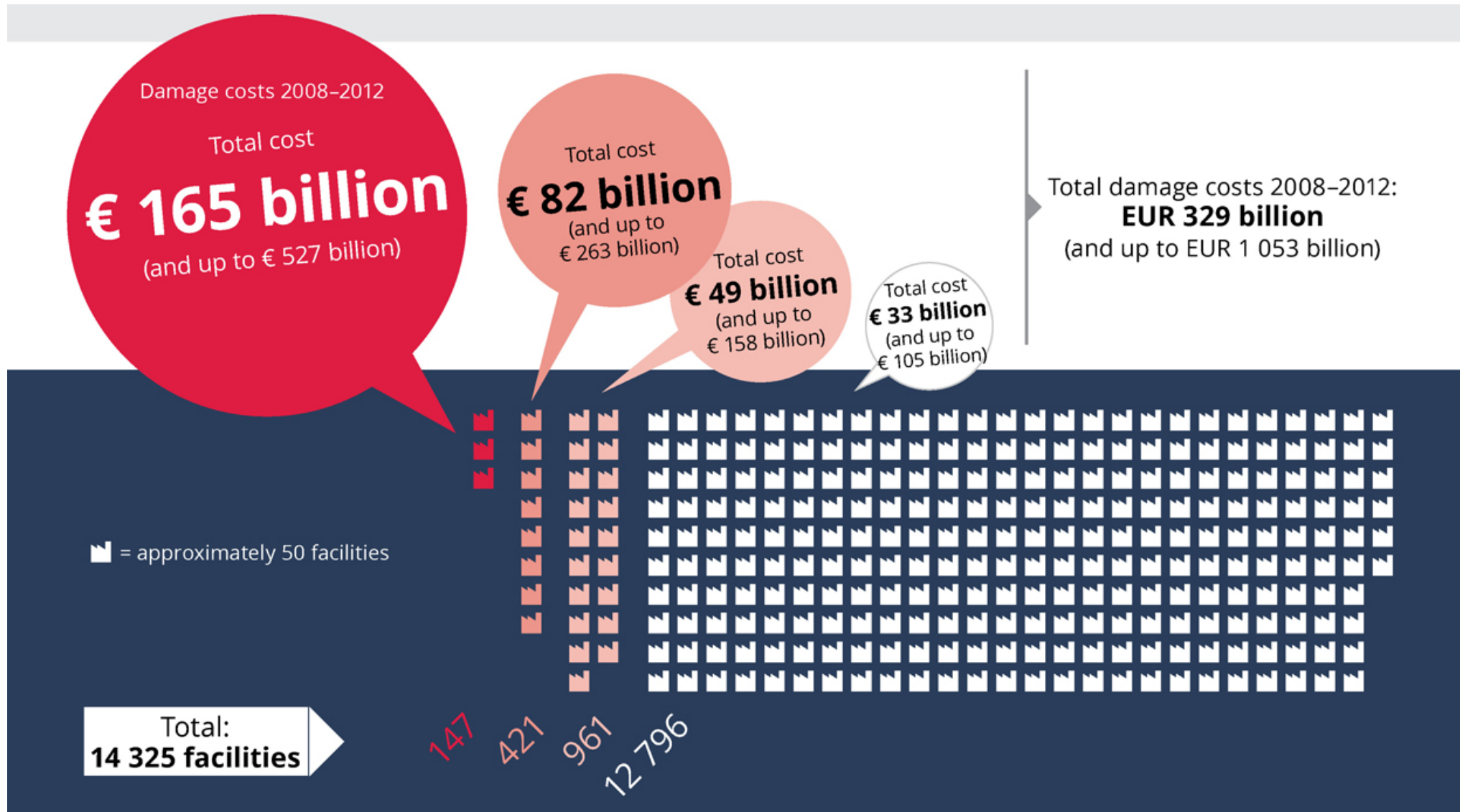
Relevant European policies



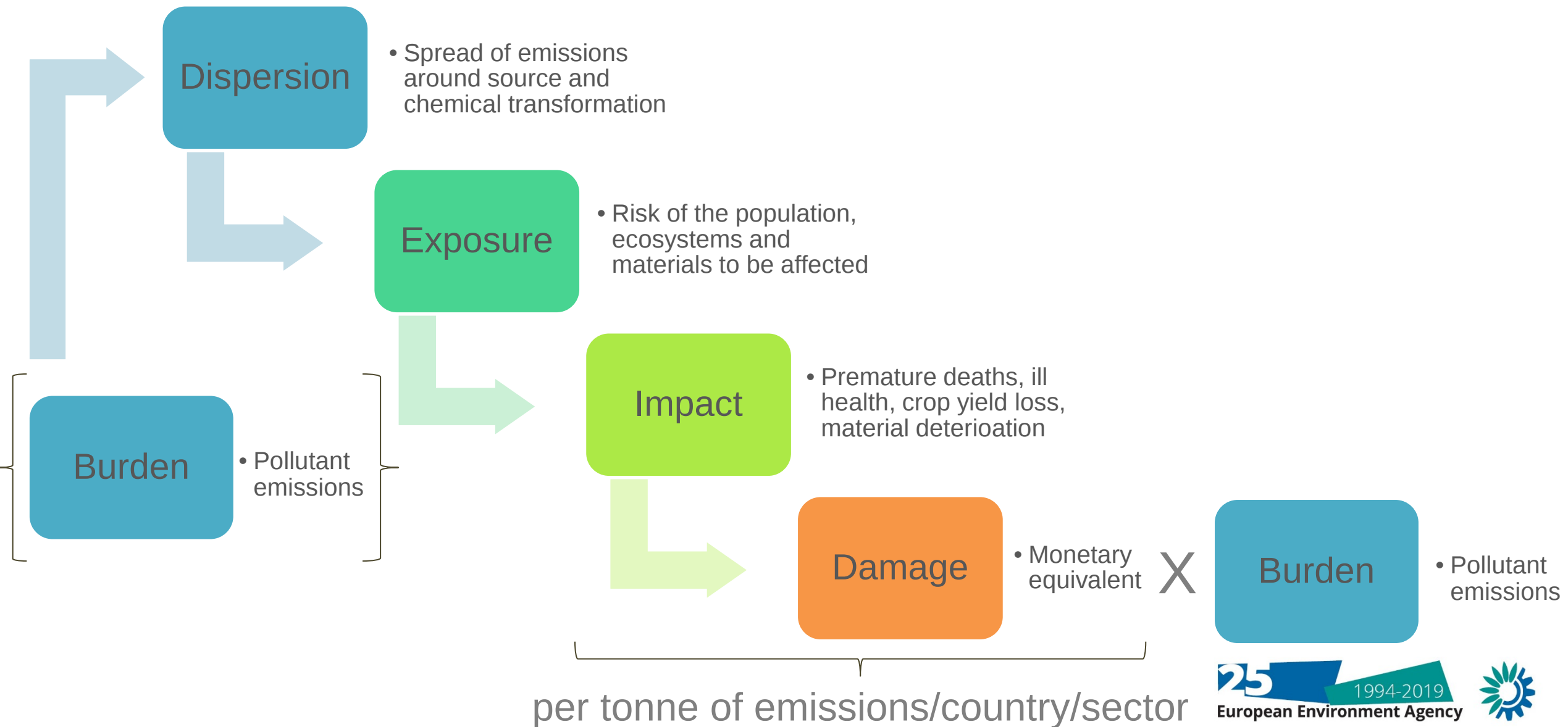
Role of different activities



1% of plants responsible for 50% of the damages



Approach of the 2014 study



Pathways in 2014 study: metals and organic compounds

- Endpoint human health:

