



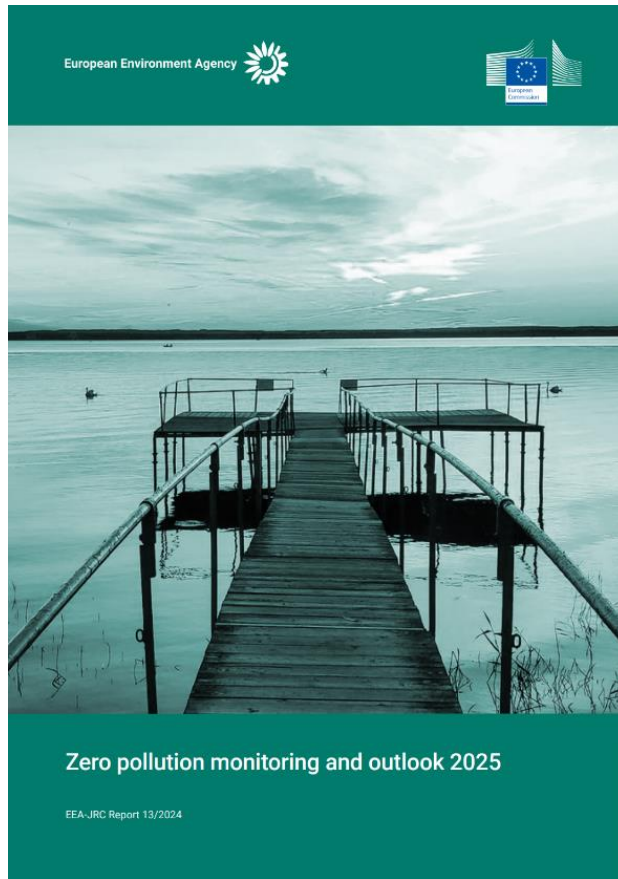
Towards Zero Pollution in Europe

2nd Zero Pollution Monitoring and Outlook 2025

Bernard Magenhann, Acting Director General, JRC
Zero Pollution Stakeholder Conference, Brussels,
3 March 2025

Joint
Research
Centre

Zero Pollution Monitoring and Outlook 2025



- Pollution from **production and consumption**
- Pollution impacts on **human health**
- Pollution impacts on **ecosystems**



Focus on:

- **Air pollution and inequality**
- **Consumption footprint**
- **Nutrients loss**
- **Healthy soils**
- **Marine litter**

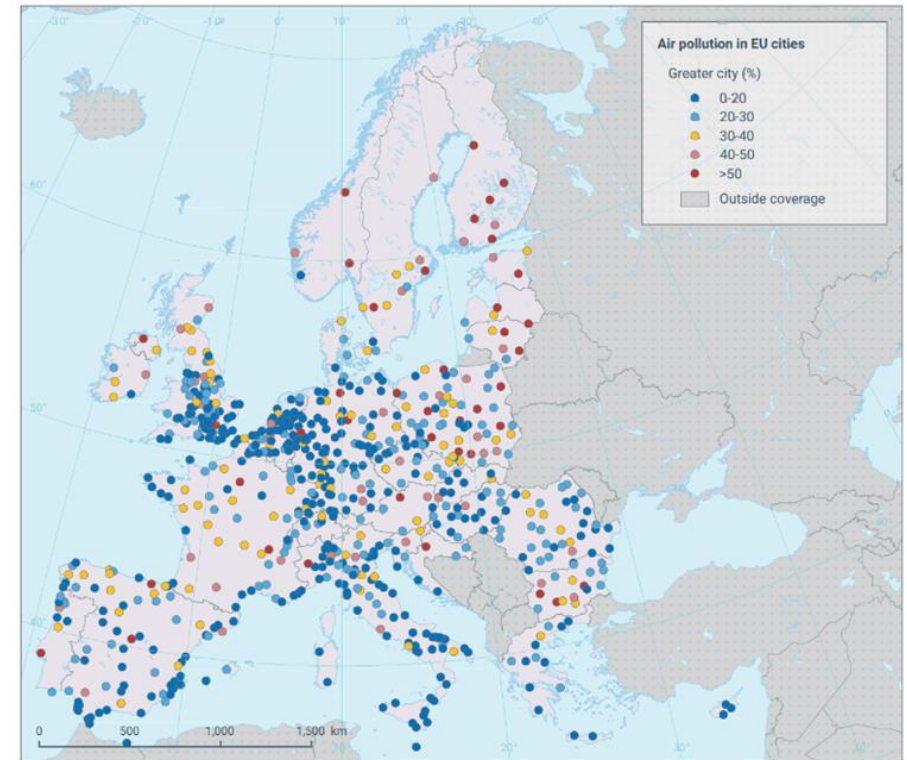
Air pollution – towards a healthier future

2030
on track:
55%
air pollution
reduction

2030
62-69%
decline in
premature
death

But
83%
urban residents
remain exposed
to poor air
quality

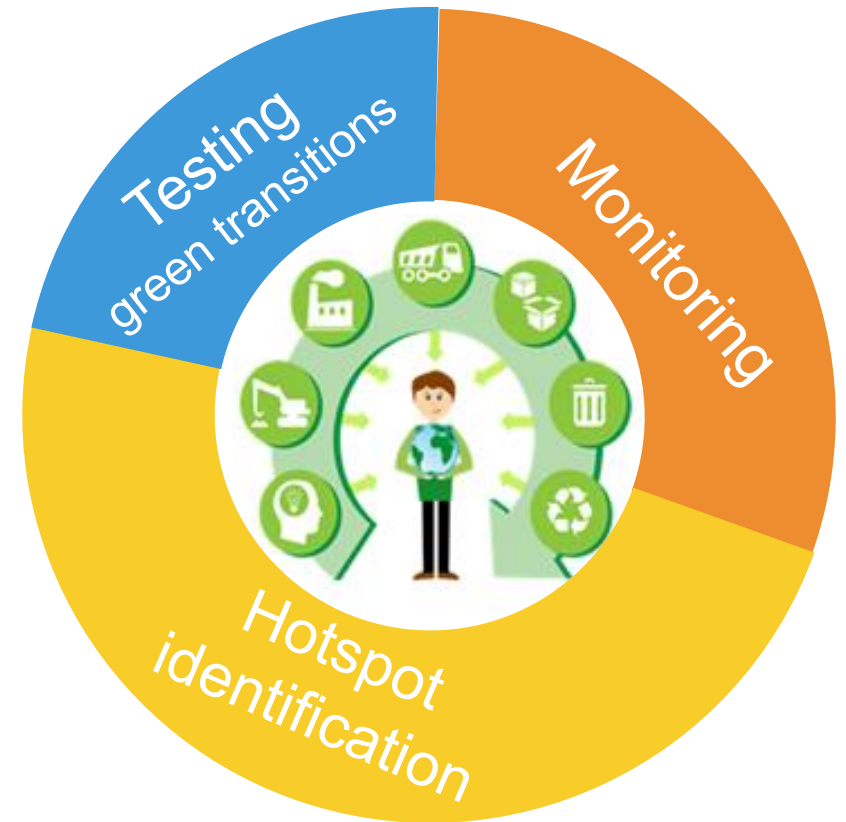
air pollution
harms vulnerable
groups most
(65+, children)
and poorest
Eastern Europe
regions



Air pollution in European cities
(EU27+Switzerland+Norway+UK)

Consumption Footprint Reduction – How?

- The **Consumption Footprint** indicators by JRC quantify **environmental impacts** of EU production and consumption at individual and country level, respectively domestic and including imports
- Food accounts for **57%** of the total **Consumption Footprint**.
- **Healthy diets, building renovations, circular economy** and **green policies** offer a promising path forward.





Ways to reduce nutrient loss

- 50% nutrient loss reduction **by 2030 unlikely.**
- Sustainable agriculture, nutrient recycling, and nature-based solutions **can reduce nutrient input.**
- Reduced meat consumption **benefits environment and increases Europe's self-sufficiency** in terms of mineral fertilisers, food and livestock feed.

Achieving healthy soils

Pesticide residues incidence classes (3403)



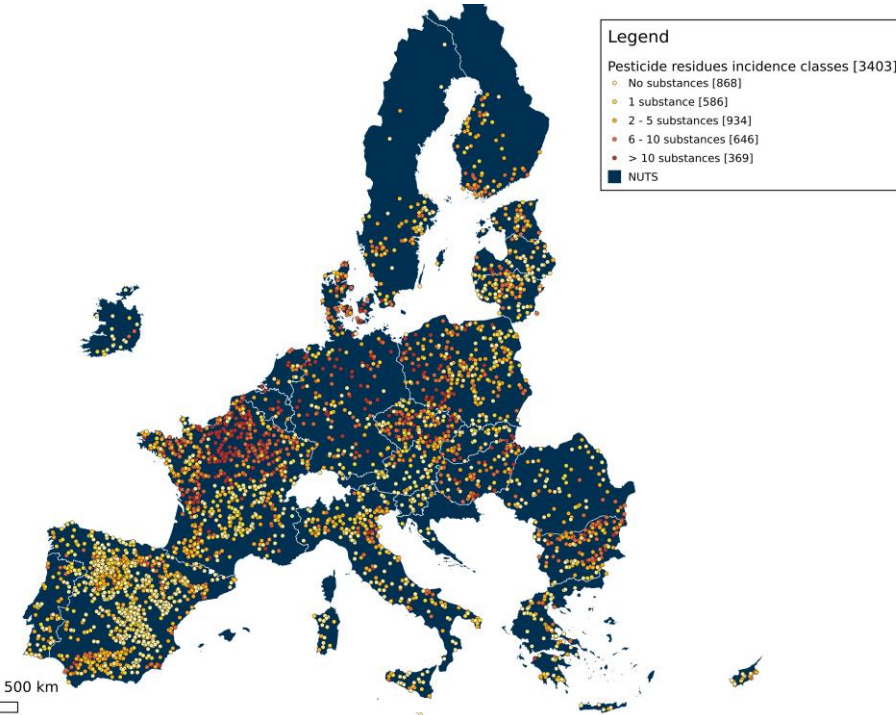
EU monitors soil pollution through LUCAS survey and JRC EUSO



High concentrations of metals are harmful to human health



75% of soil samples contain pesticide residues **above safe levels**

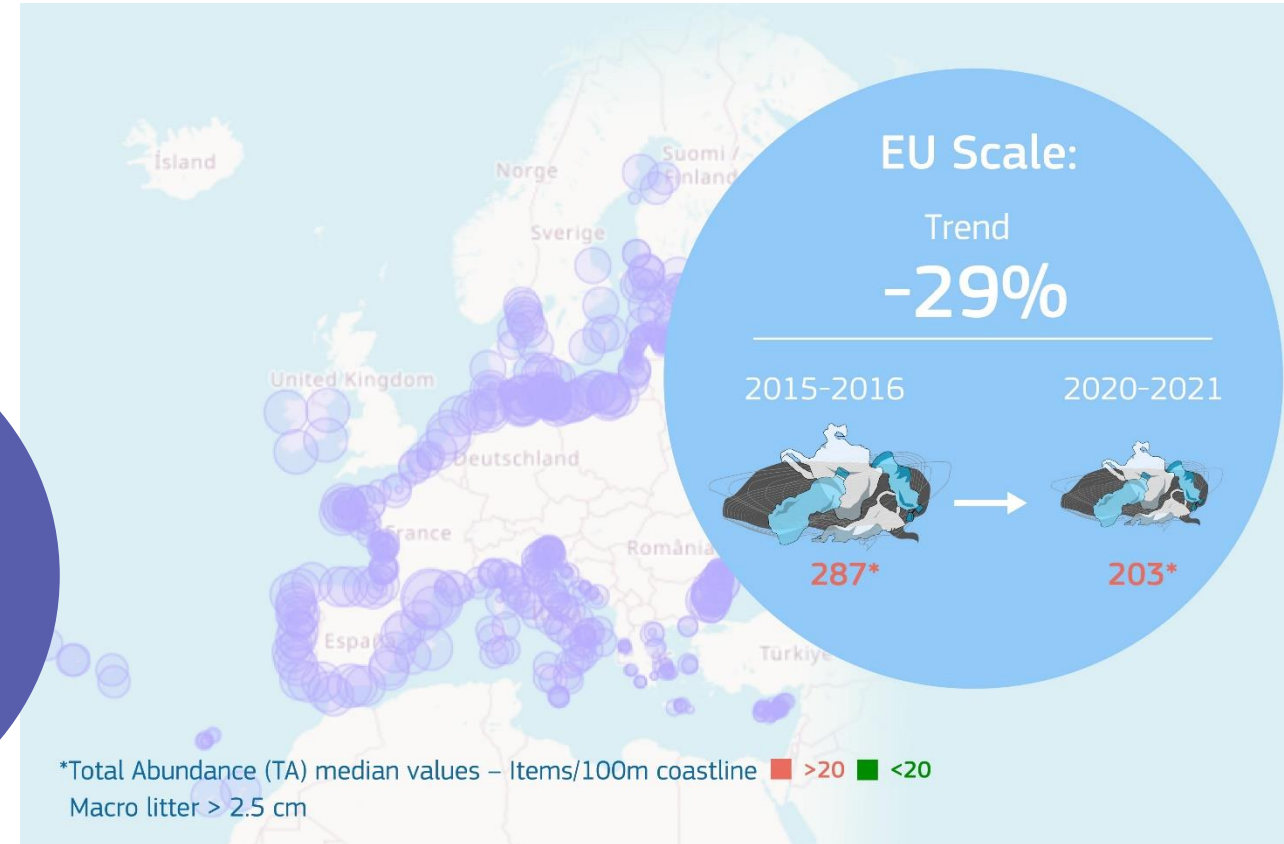


Significant progress in reducing marine litter



**29% decrease
in total
litter** between
2015 and 2021

**Substantial
reduction of
macro
litter** by 2030
achievable



Our way ahead to a toxic free environment



Thank you



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