



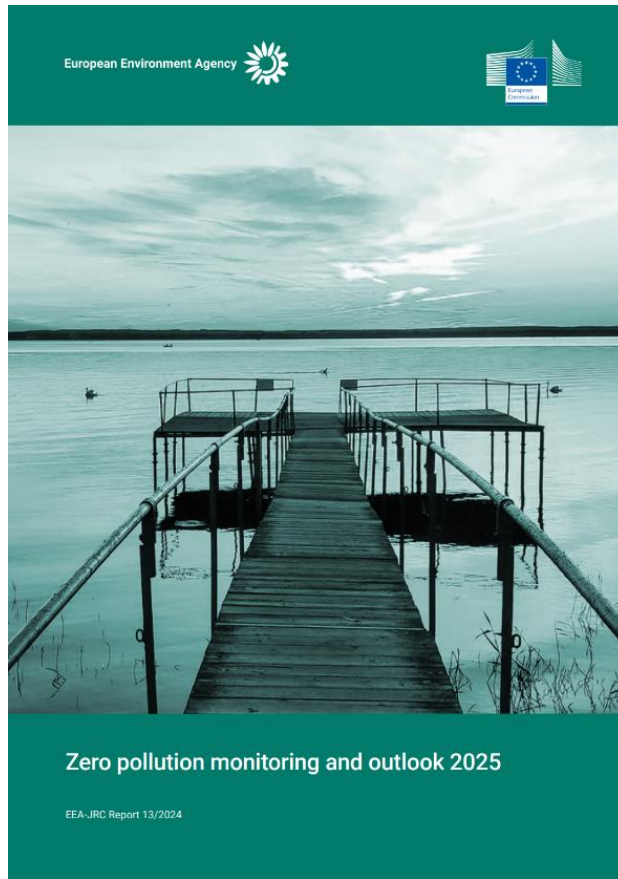
# Towards Zero Pollution in Europe

2<sup>nd</sup> 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**

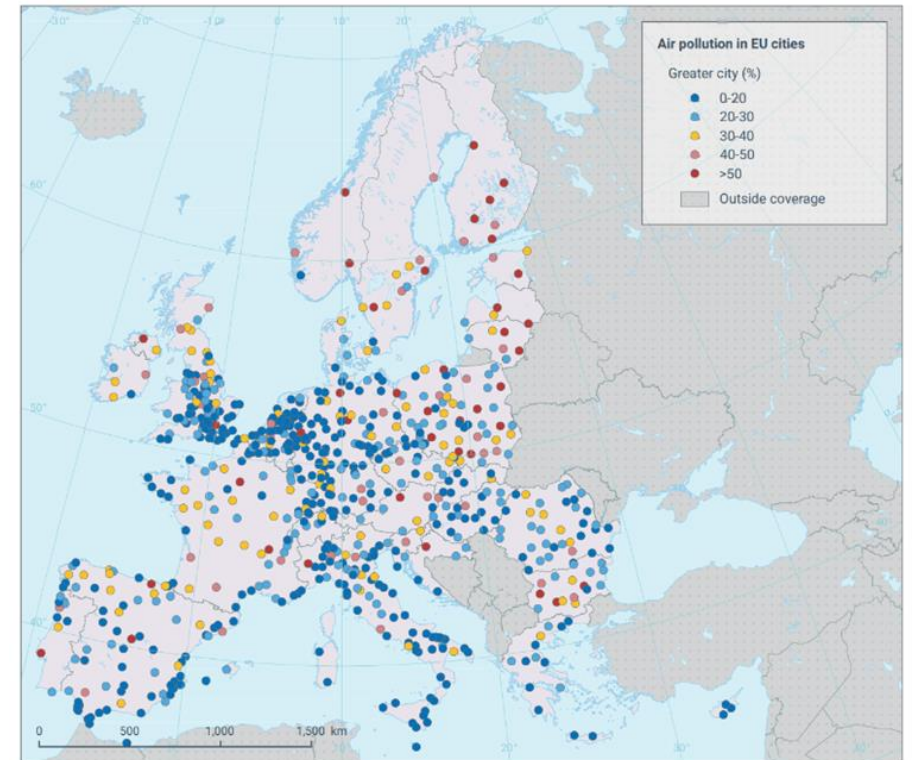
# Air pollution – towards a healthier future

2030  
on track:  
**55%**  
air pollution  
reduction

2030  
**62-69%**  
decline in  
premature  
death

But  
**83%**  
urban residents  
remain exposed  
to poor air  
quality

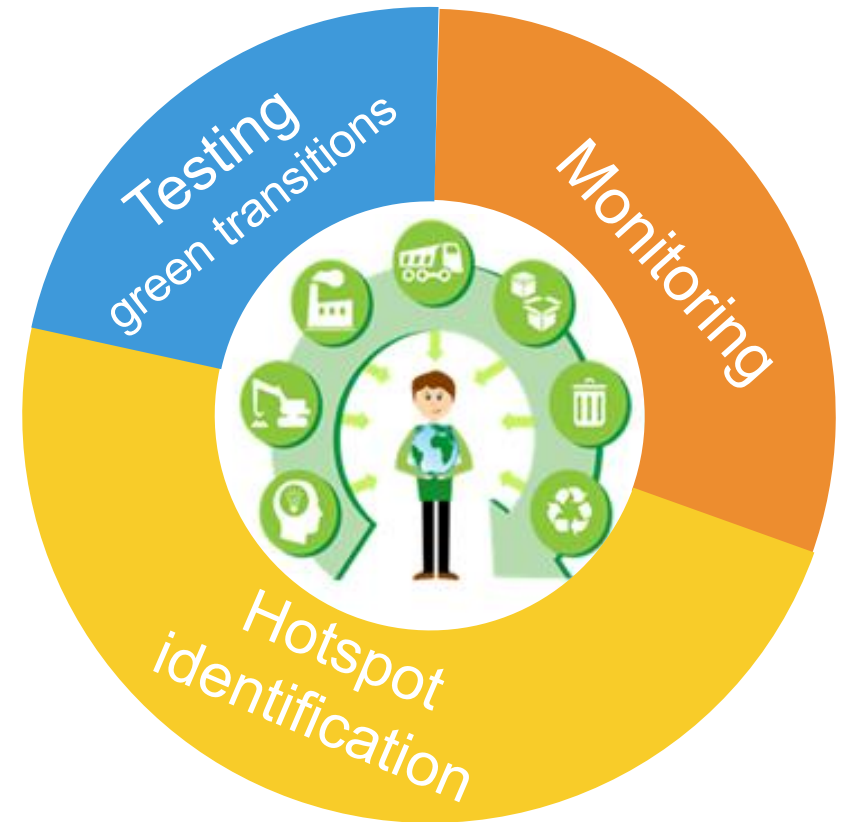
air pollution  
harms vulnerable  
groups most  
(65+, children)  
and poorest  
Eastern Europe  
regions



**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)



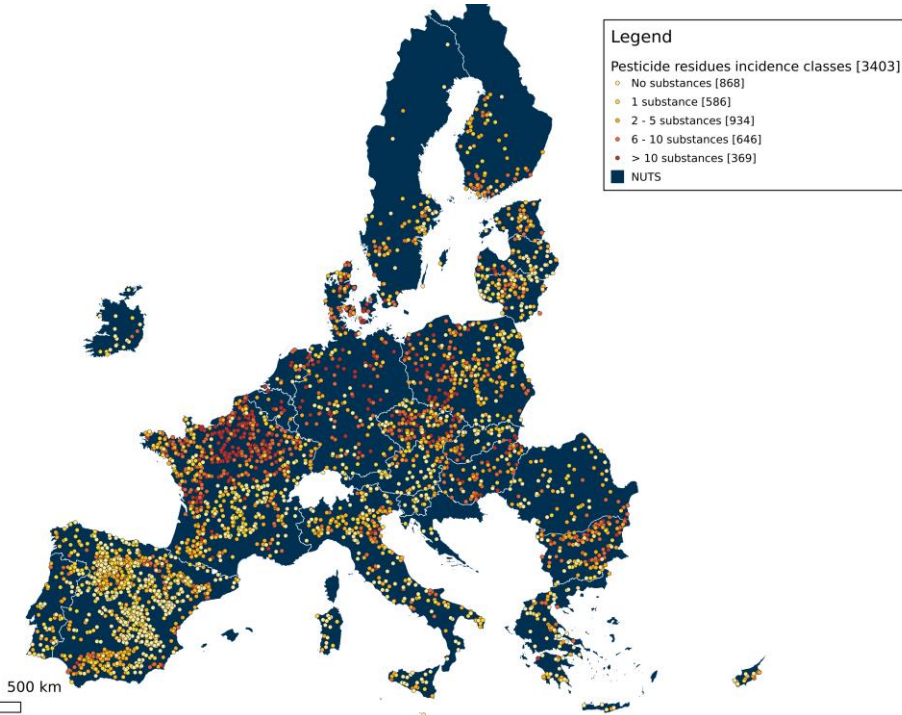
EU monitors soil pollution through LUCAS survey and JRC EUSO




High concentrations of metals are harmful to human health



75% of soil samples contain pesticide residues above safe levels

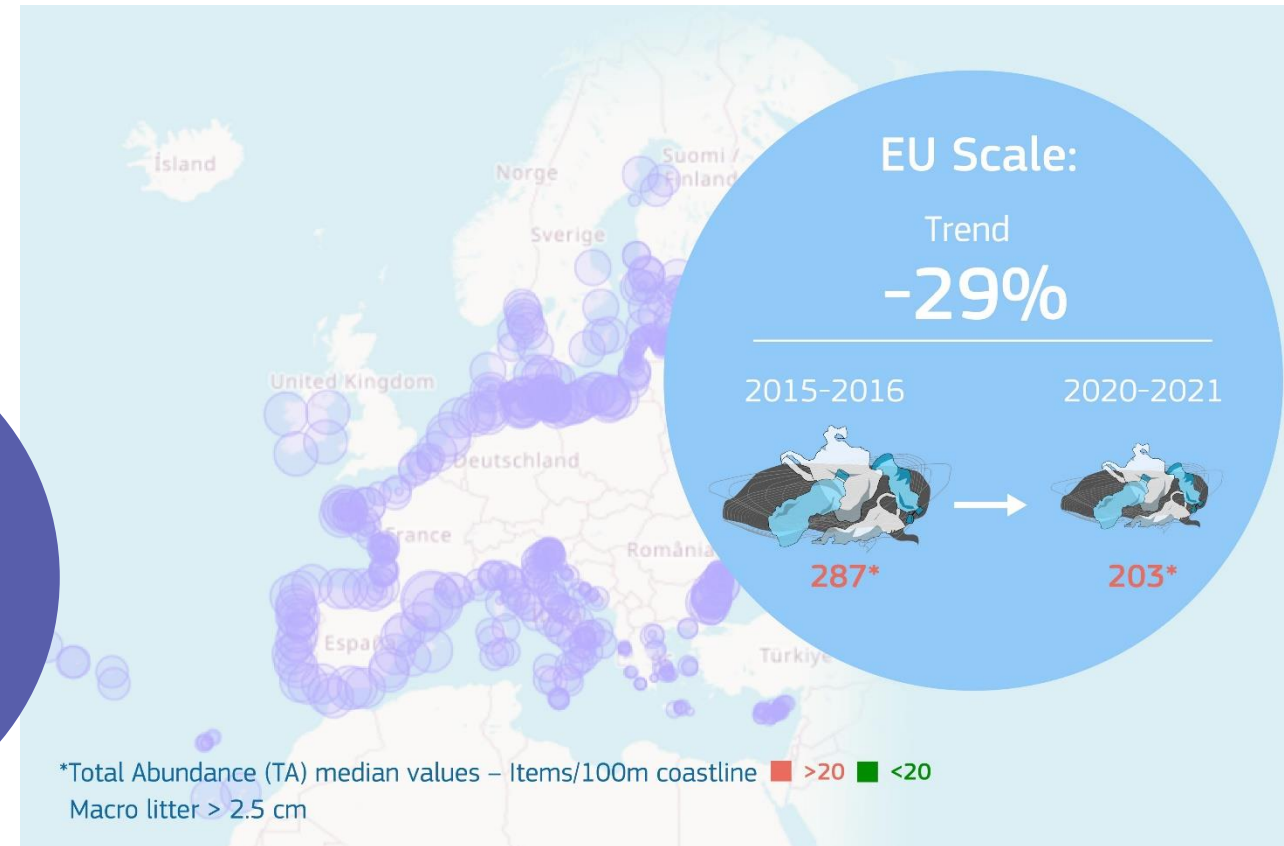


# Significant progress in reducing marine litter



**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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