



Piano d'azione sull'Inquinamento Zero

Visione e Obiettivi principali

ISPRA

Silvia Bartolini

Commissione Europea



Quale visione al 2050?

“Ridurre l’inquinamento dell’aria, dell’acqua e del suolo a livelli non dannosi per la salute dei nostri cittadini e dei nostri ecosistemi, nel pieno rispetto dei limiti del nostro pianeta, creando un ambiente sano per tutti”

The European Green Deal

zero pollution actions



The EU as a global leader

A European Climate Pact

- Chemicals Strategy for Sustainability
- Zero Pollution Action Plan for Air, Water & Soil

Many Green Deal actions already contribute to the Zero Pollution ambition

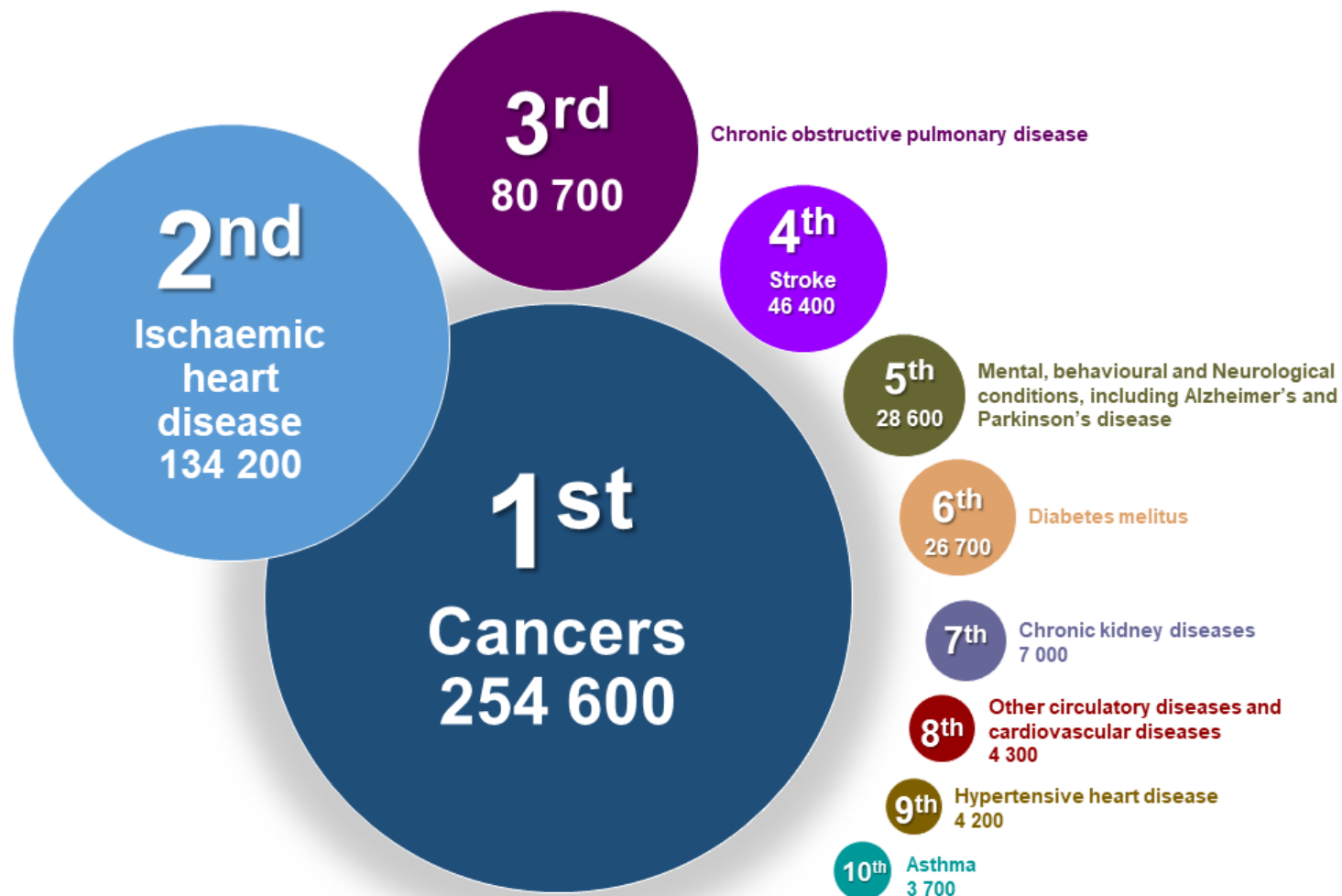
- Circular Economy (e.g. macroplastic)
- Biodiversity Strategy (e.g. pesticides, fertilisers)
- CAP (e.g. pesticides/fertilisers)
- Climate & Energy initiatives including Adaptation
- Cancer Plan (e.g. air pollution)
- Mobility Strategy
- Renovation Wave & Buildings
- Industrial Strategy
- Pharmaceuticals Strategy
- Trade Policy Review & Multilateralism

Joined up

Holistic

Integrated

| Quale impatto sulla salute dei cittadini?



Costi dell'INAZIONE superiori a quelli dell'azione!

Costo inquinamento aria in UE= 330-940 miliardi l'anno

Costo misure UE per migliorare qualità aria = 70-80 miliardi l'anno



What if we do not act?

The European Green Deal

December 2019
#EUGreenDeal



"The cost of the transition will be big, but the cost of non-action will be much bigger."

Ursula von der Leyen, President of the European Commission

Without action on climate change, the EU will see, in the lifetime of our children:



Pollution

▲ **400,000**
premature deaths
per year today due to air pollution.

Source: European Environment Agency,
Air quality in Europe - 2019 report



Heat and drought

▲ **90,000**
annual deaths as a
result of heatwaves¹

▲ **660,000**
additional asylum
applications per year in
the EU at 5°C temperature
increase²

▲ **16%**
of species at risk
of extinction at 4.3°C
temperature increase³



Economics



▲ **€190 billion**
annual losses projected for a 3°C
increase in global average temperature

Source: Ciscar et al., 2014: Climate Impacts in Europe,
the European Commission's Joint Research Centre
PESETA II project

▲ Climate change could lead to a
20% food price rise in 2050

▲ Globally, the number of people at risk
of being forced from their homes by
river flooding could increase to
50 million a year

Source: Internal Displacement Monitoring Centre,
Assessing the Impacts of climate change on flood
displacement risk, 2019

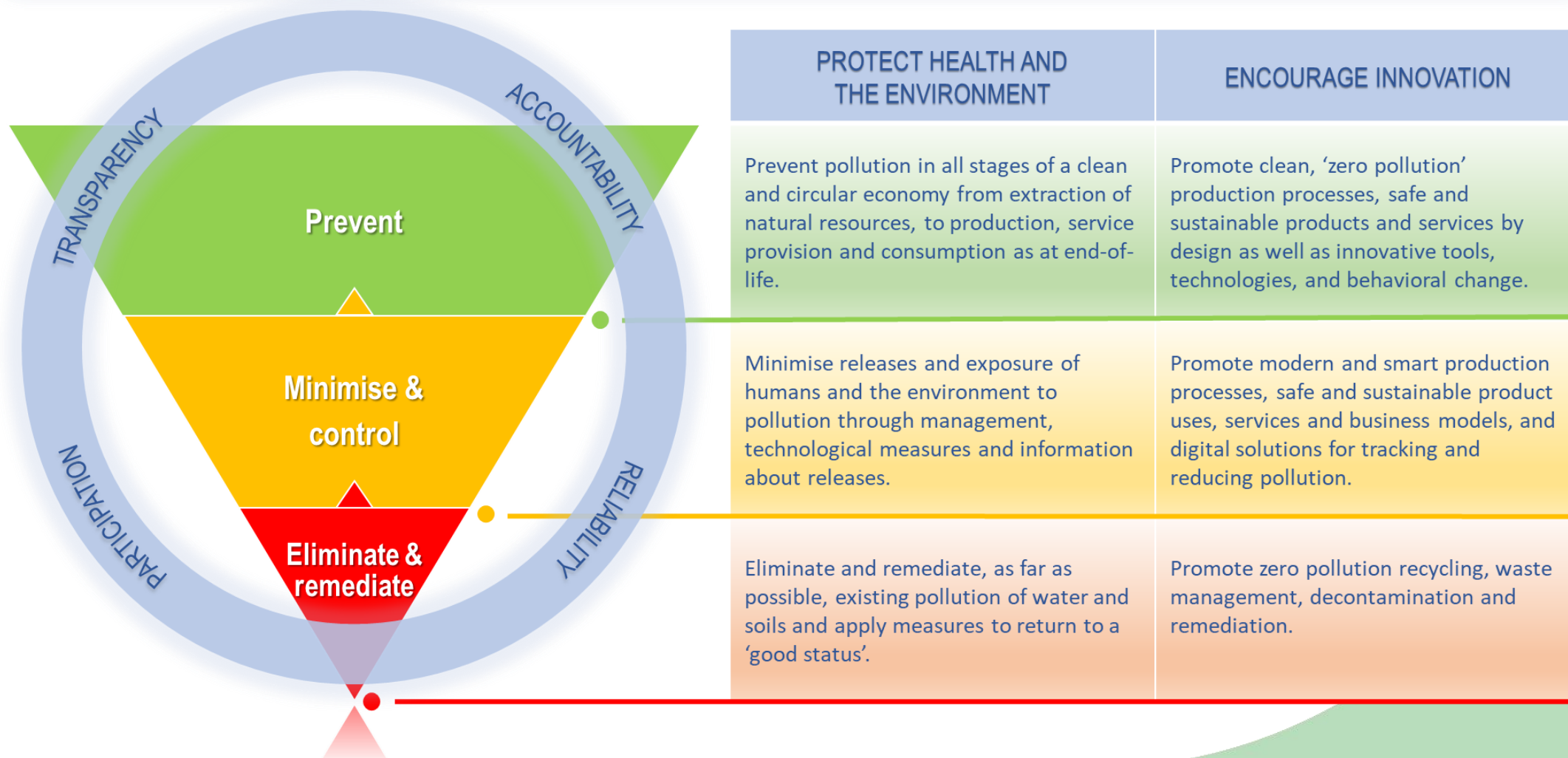
▲ Economic costs of heat-related
mortality could amount to more than
€40 billion per year



European
Commission

Inquinamento Zero: Gerarchia dell'azione

Union policy on the environment shall be based on the **precautionary principle** and on the principles that **preventive action** should be taken, that environmental damage should as a priority be **rectified at source** and on the **polluter pays principle**.



Quali Obiettivi all'orizzonte 2030?

- 30% la percentuale della popolazione che soffre cronicamente di inquinamento acustico

- I 55% delle morti premature causate dall'inquinamento atmosferico

- 25% gli ecosistemi in cui l'inquinamento atmosferico minaccia la biodiversità

Attuazione della legislazione UE (aria, acqua, suolo) + Riduzione

- 50% rifiuti di plastica in mare e
- 30% le microplastiche

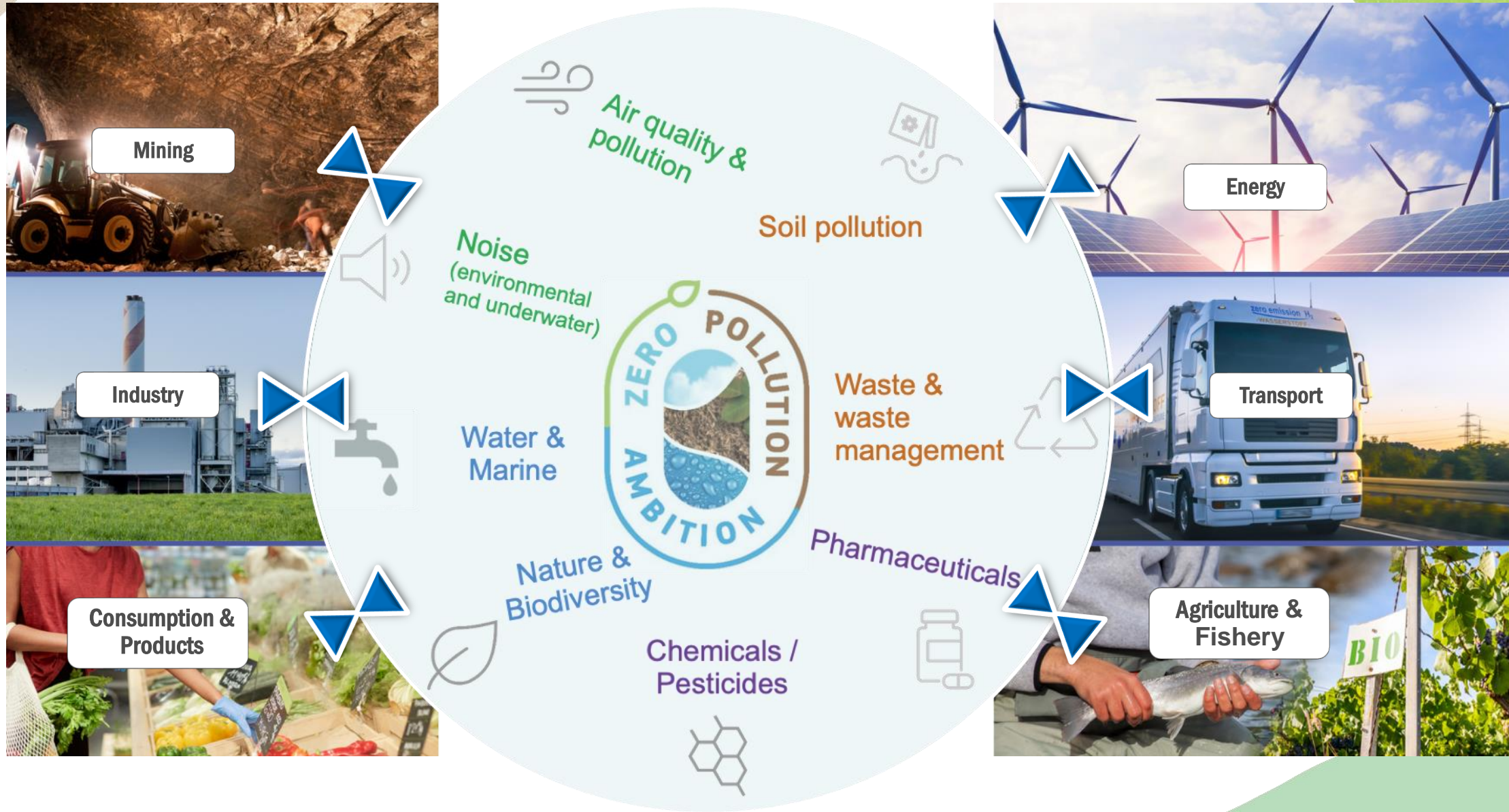
- 50% le perdite di nutrienti nel suolo e l'uso dei pesticidi chimici

- 50% la produzione di rifiuti urbani residui

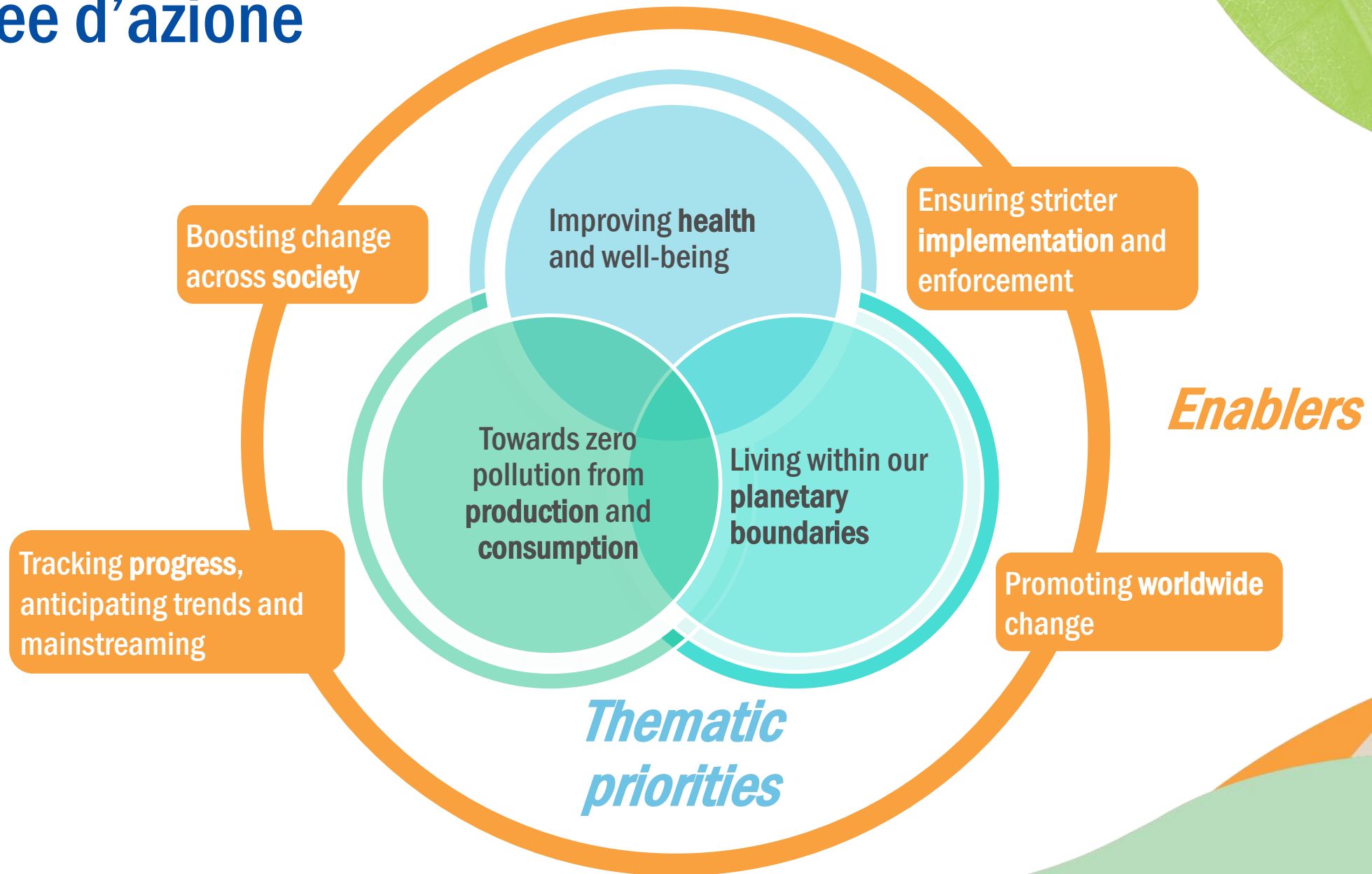
Graphics by Jerker Lokrantz/Azote



Zero Pollution policies – towards an integrated approach



| Aree d'azione



Principali Iniziative annunciate

First Zero Pollution Monitoring and Outlook (2022)

- Revision of **Air Quality Directive**
- Revision of the **Urban Wastewater Treatment Directive**
- Revision of **water pollutants list** (Environmental Quality Standards and Groundwater Directives)
- Revision of the **Mercury Regulation**
- Implementation Report of **Environmental Noise Directive**
- **Establish EU priority watch list for soil**

Second Zero Pollution Monitoring and Outlook (2024)

- **Recommendations on implementation of polluter pays principle**

2021

2022

2023

2024

Launch of the Zero Pollution Stakeholder Platform (2021)

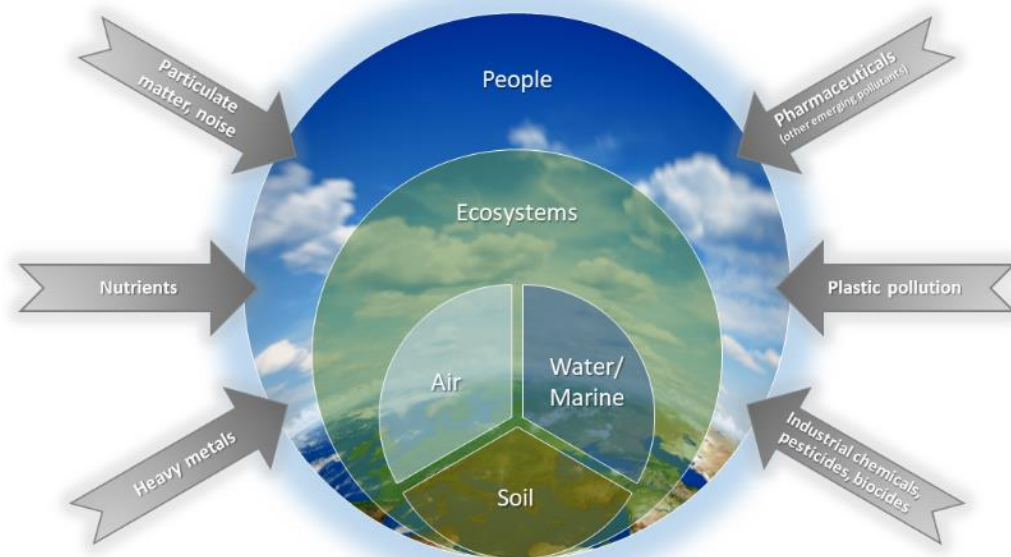
- New emission limit values for motor vehicles (**EURO7**)
- Revision of the **Industrial Emissions Directive** and EU Pollutant Release and Transfer Register (or early 2022)
- Revision of the **Environmental Crime Directive**
- **Launch global initiatives, e.g. on lead batteries recycling**

EEA's European Environment & Health Atlas (2023)

- Review of **Marine Strategy Framework Directive**
- Review of **Bathing Water Directive**
- Fitness Check of **Environment Liability Directive**
- **Assess pathways and policy options for indoor air quality**
- **Dedicated nutrient (ammonia) actions contributing to the Integrated Nutrient Management Action Plan**
- **Zero pollution contribution to European Green Deal Dataspace**



| Zero Pollution Monitoring & Outlook (SWD(2021) 141)



Zero Pollution Outlook (JRC lead)

- Clean Air Outlook complemented by Clean Water/Marine Outlook and Clean Soil Outlook
- Strategic foresight dimension

Zero Pollution Monitoring (EEA lead)

- Integrated monitoring of pollution building on existing air, noise, water, marine & soil
- Focus on targets, impacts, pressures and effectiveness of measures
- Spotlight on pollutants of emerging concern (e.g. light, ultrafine particles, etc.)
- Develop and incorporate more integrated assessments (e.g. Exposome, human biomonitoring, environmental footprint)
- Thematic report on emerging research or use of Copernicus
- Contribution to 8th Environment Action Programme and Environment Implementation Review



| Digital solutions (SWD(2021) 140)



Energy
networks



Precision
farming



Mobility and
transport



Smart
buildings



Green data
spaces



The power of
data

Showcasing case studies / best practices on

- Less air pollution through digitising energy and transport sector
- Less pesticide and nutrient pollution through precision farming
- Less chemical pollution in products through better data for consumers
- Less pollution from mining and waste due to digitally enabled circular economy
- Less water pollution through ‘digital water process’



| Zero Pollution Stakeholder Platform



European Commission



European Committee
of the Regions



Who?

- Bringing together stakeholders and experts from different policy areas

What?

- mainstream the zero pollution agenda, help create co-ownership, promote collaboration and foster integrated solutions and actions that maximise synergies

How?

- share good practices on cross-cutting topics such as financing for zero pollution innovation and jobs, boosting sustainable production and consumption as well as creating thematic hubs (e.g. air, digital, soil)
- Create synergies with European Climate Pact, Circular Economy Stakeholder Platform, Green City Accord, Business@Biodiversity, Chemicals Roundtable, etc.



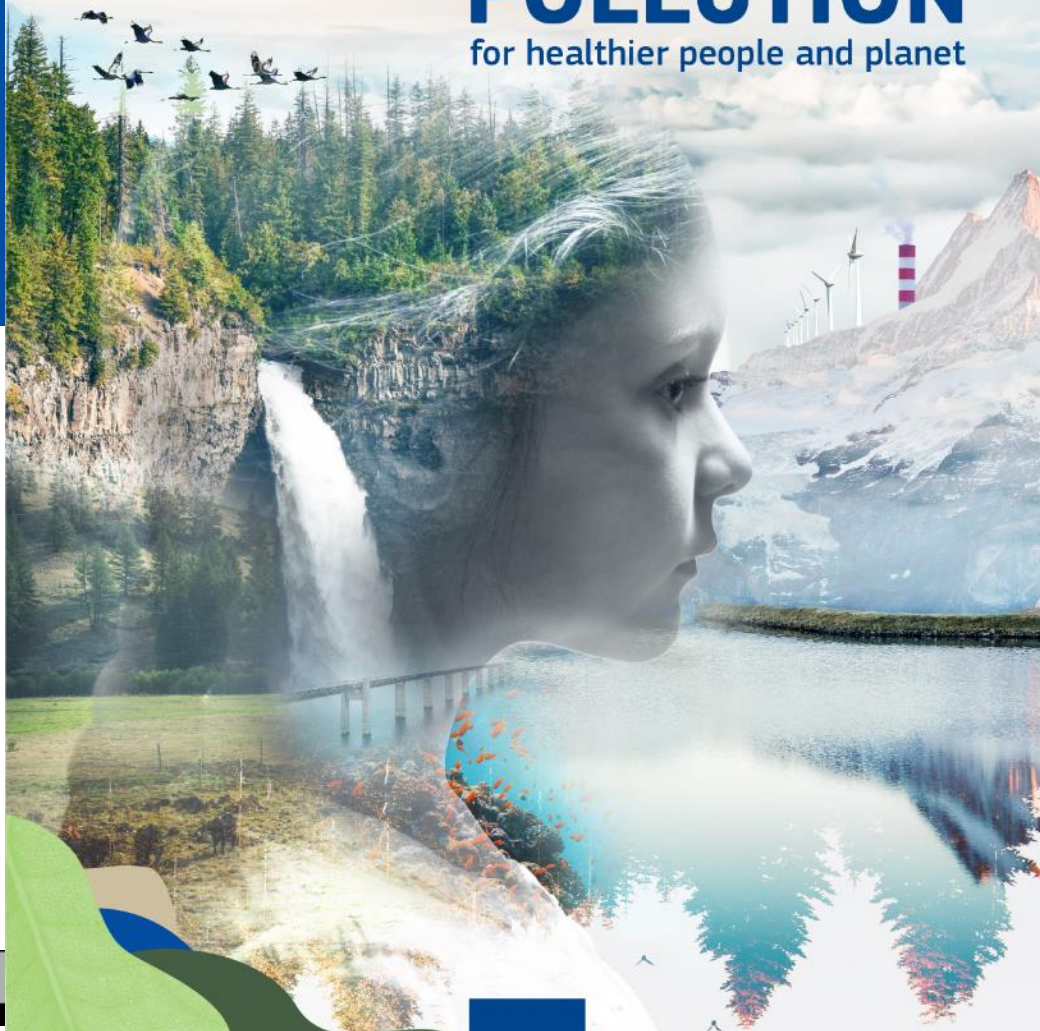
Business
@Biodiversity





ZERO POLLUTION

#EuGreenWeek
May 31 → June 4
for healthier people and planet



See you at the Green Week 2021!

More information:

- [Zero Pollution webpage](#)
- [Analysis of open public consultation](#)
- **Contact:** ENV-ZERO-POLLUTION@ec.europa.eu

Your input is welcome!



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