



Agenda

9:30	Session 3: Examining the impact of demographic factors on pollution
11:00	Break
11:15	Session 3: Examining the impact of demographic factors on pollution (continued)
11:45	Session 4: Outlook of the zero pollution and health agenda for 2030
12:45	Conclusions and next steps

Reducing health inequalities through zero pollution

Session 3: Examining the impact of demographic factors on pollution

JRC E5; JRC C5; JRC D3; JRC D2

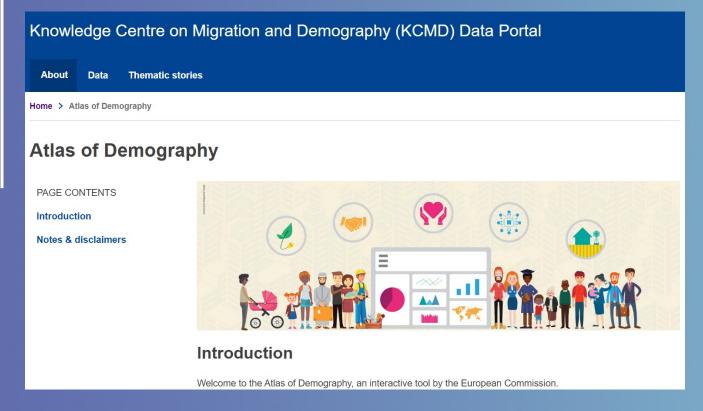
JRC, 15 June 2023











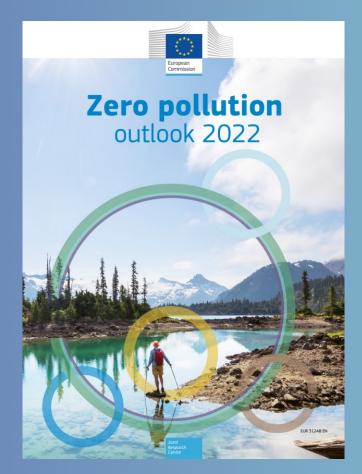
Atlas of Demography

- Based on official statistics and projections from Eurostat/EEA/GESIS and data produced by JRC
- Interactive maps and charts
- Thematic stories















Air pollution



Soil pollution



Water pollution









Air pollution





Air pollution









Soil pollution





Soil pollution







Break (15 minutes)

Session 3: Examining the impact of demographic factors on pollution

JRC, 15 June 2023











ZERO POLLUTION TALKS

COFFE BREAK - we will reconvene at 11:15

Subscribe to the newsletter



Register for the first **ZP Talk:**Zero Pollution and the European Year of Skills





Water pollution





Session 3: Examining the impact of demographic factors on water pollution (continued)

Water pollution







Thank you!

Session 3: Examining the impact of demographic factors on pollution

JRC Unit E5, C5, D3, D2













Session 4: Outlook of the zero pollution and health agenda for 2030



The EU Framework Programme for Research and Innovation on Environment and Health

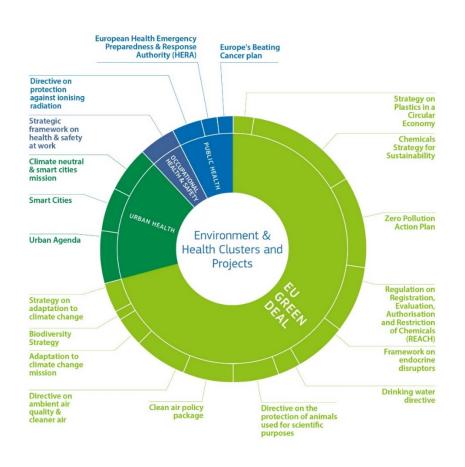
15/6/2023

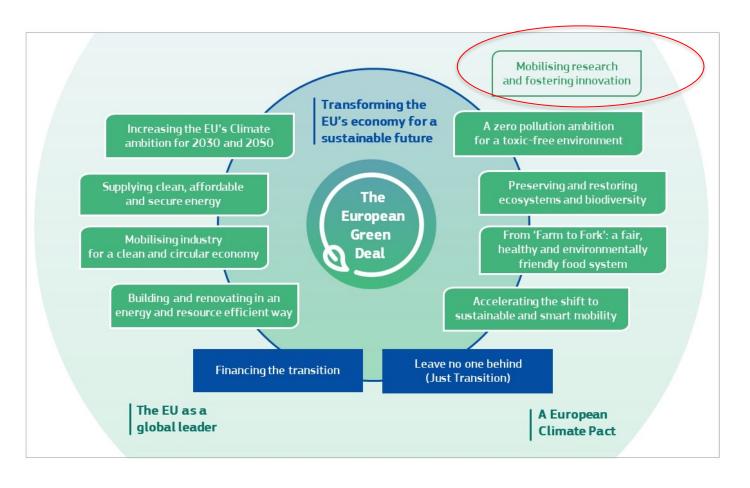
DG Research & Innovation



Policy framework for Environment and health research

The EU Green deal





EU Research Policy Framework

HORIZON EUROPE





Exclusive focus on defence research & development

Research actions

Development actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT

Exclusive focus on civil applications



Health – €8.25 billion

- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & SpaceClimate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre

Pillar III INNOVATIVE EUROPE

European Innovation Council

European Innovation Ecosystems

European Institute of Innovation & Technology*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

European Research Council

Marie Skłodowska-Curie

Research Infrastructures

Reforming & Enhancing the European R&I system

* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme



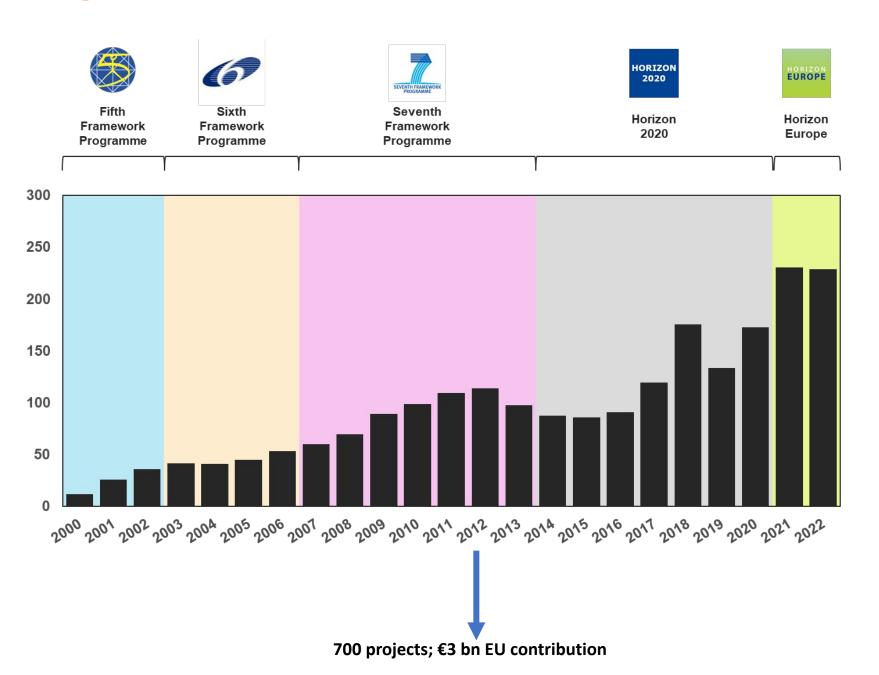
Fusion

Fission

Joint Research Center (JRC)



Funding in EU Environment & Health research











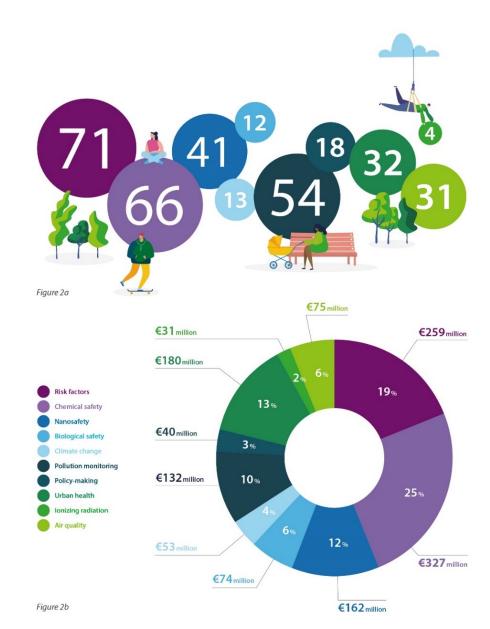






Main Environment and Health research areas





Clusters of projects on Environment & Health

CUSP Cluster

Environment & Health Clusters of Projects



PROJECTS



(in million)



COUNTRIES



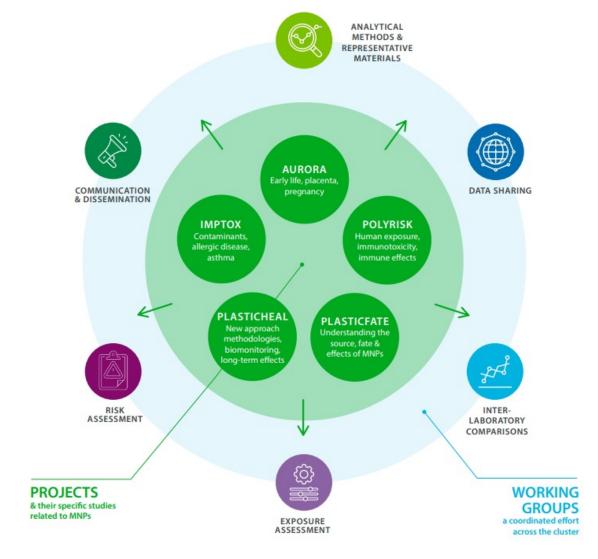
GROUPS

Clusters under Horizon 2020	

EURION ¹	8	€49	19	70+
EHEN ²	9	€105	24	120+
CUSP ³	5	€30	22	70+
Urban Health⁴	6	€30	26	90+
Green Deal Health ⁵	6	€51	23	70+
ASPIS ⁶	3	€60	16	60+
IDEAL ⁷	6	€47	23	100+
Climate Change & Health ⁸	6	€59	28	100+
CLUE-H ⁹	4	€29	18	60+

¹ European Cluster to Improve Identification of Endocrine Disruptors

Clusters under Horizon Europe



² European Human Exposome Network

³ European research cluster to understand the health impacts of micro- and nanoplastics (MNPs)

⁴ Urban Health Cluster

⁵ The Green Deal Health Cluster

⁶ Animal-free Safety assessment of chemicals: Project cluster for Implementation of novel Strategies

⁷ Cluster on Indoor Air and Health

⁸ Cluster on Climate Change and Health

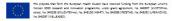
⁹ Cluster on Electromagnetic fields Exposure and Health

Policy Briefs

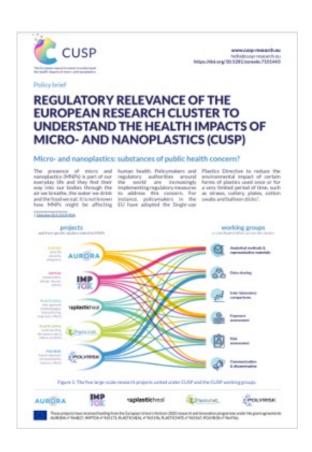


How does the urban environment impact on health and wellbeing of people?

The European research cluster aims to understand the impacts of urban environment on the health and wellbeing of people









Newsletters







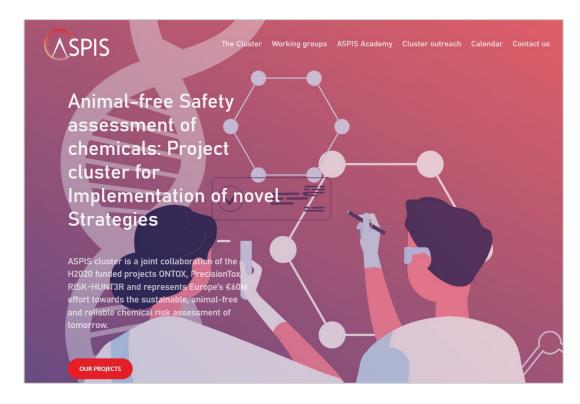
EHEN newsletter #4

CUSP newsletter #4

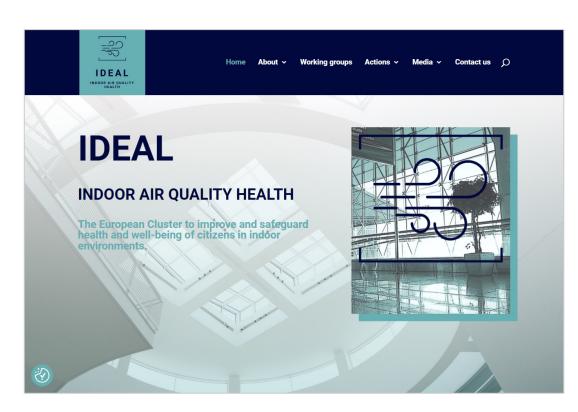
UHC newsletter #2



Website



ASPIS website



IDEAL website



Feedback to policy



2. Reducing health inequalities through zero pollution



The aim of this flagship is to feed pollution monitoring and outlook data regularly into the Cancer Inequalities Registry (5) and the Atlas of Demography (6). By 2024, an assessment will be carried out of the need to have an inequalities registry identifying trends, disparities and inequalities across the EU regions also for other pollution-related diseases, to help target interventions at EU, national and local levels. This registry would enable people to compare how much pollution affects their health across the different regions where they live, study and work.

The flagship is supported by the recently published briefing from the European Environment Agency on cancer and pollution (7), which shows that pollution causes over 10 % of all cancer cases in Europe, which are therefore preventable.

The Commission–UNEP policy dialogue identified an urgent need for a shift from the generation, production and use of harmful chemicals that pose a risk to human health and the environment towards the sound management of chemicals in key sectors.

2.1. Projects' highlights

The following Horizon 2020 projects have been identified as having contributed to the abovementioned goals.

HBM4EU (8) (the European Human Biomonitoring Initiative), co-funded by the European joint
programme on rare diseases, provided harmonised monitoring data on the European population's
exposure to chemicals and gathered evidence on health effects in by age group and gender, taking
into account also other factors such as socioeconomic status, lifestyle, diet and environmental
conditions. The work started within HBM4EU will be continued by the Partnership on Chemical Risk
Assessment(PARC) (9).

Zero Pollution Stakeholder Platform - Actions

Find out how the flagship initiatives and actions of the Zero Pollution Action Plan are being implemented.

The Zero Pollution Action Plan set out 9 flagship initiatives listed below and 33 actions (see the list <u>here</u>). Active stakeholder involvement will be essential to implement them. We will provide you with regular information on their implementation through the Action Tracker on this page and through the newsletter.

If you are interested in contributing to any of these initiatives, please register for the <u>newsletter</u>.

The Zero Pollution Stakeholder Platform also developed a Work Programme for 2022 to 2024, as discussed at the <u>first meeting of the Platform</u>. Updated information on the activities listed in the Work Programme is available here.



Flagship 9 - Consolidating the EU's Knowledge Centres for Zero Pollution (Ongoing - advanced)

Status: Ongoing (advanced)

From 2021 onwards, the Commission will consolidate the roles of the European Environment Agency (EEA) and the Commission's Joint Research Centre (JRC) as the EU's Knowledge Centres of Excellence for Zero Pollution Monitoring and Outlook, and bring together relevant players in the Zero Pollution Stakeholder Platform to exchange also on best available data and inform the public, in particular through the upcoming Air Quality Index App.

Timing / key deliverables

2021: Air Quality App launched

2022: First ZP Monitoring and Outlook Report

2024: Second ZP Monitoring and Outlook Report

Sources of additional information

• The Urban Health Cluster [♣] and the Indoor air quality and health cluster (kick off October 2022) will provide evidence on the health impacts of pollution in urban areas including air/indoor air and light pollution. The European Human Exposome Network [♣] will advance the understanding of the health impacts of global exposure to environmental factors covering also air and noise pollution and chemical risk factors. The European Research Cluster to Understand the Health Impacts of Micro- and Nanoplastics [♣] aims at filling in the knowledge tabs in this research area.

Feedback to policy: success stories



Health introduction

This section of the zero pollution monitoring assessment examines available knowledge and trends in pollution and associated impacts on health. In addition to this summary assessment page there are sub-sections providing more detailed analysis of air pollution, noise pollution, water pollution, chemical pollution and soil pollution impacts on health. A collection of 'Signals' is also provided which highlight emerging issues and other available knowledge on pollution and health.

Recently, the EU Horizon European Human Biomonitoring Initiative (<u>HBM4EU</u>) yielded data on human exposure to chemicals from harmonised human biomonitoring studies across Europe. The data provide a picture of how chemicals burden the body and impact health. Some of the emerging data from this project are presented here to illustrate the value of human biomonitoring in assessing risks from chemicals to humans. The recently initiated Partnership for the Assessment of Risks from Chemicals (PARC) will further build on HBM4EU experiences and results.

Brussels, 13.2.2023 COM(2023) 71 final

2023/0033 (COD)

Proposal for a

DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

amending Council Directive 98/24/EC and Directive 2004/37/EC of the European Parliament and of the Council as regards the limit values for lead and its inorganic compounds and diisocyanates

{SEC(2023) 67 final} - {SWD(2023) 34 final} - {SWD(2023) 35 final} - {SWD(2023) 36 final}

Coherence with scientific research

Lead and diisocyanates were priority chemicals addressed under the EU human biomonitoring programme (HBM4EU) funded by Horizon 2020⁵⁶, a joint effort of 30 countries, the European Environment Agency and the European Commission, that ran from 2017 to 2021. It generated knowledge to provide insight into the safe management of chemicals and so protect human health. A dedicated project on occupational exposure to metals was carried out, with the results showing that exposure to several metals, including lead, occurs during the recycling of e-waste. A dedicated project was also carried out for diisocyanates, leading to a review of the current biomarkers used for biomonitoring diisocyanates, an assessment of the current levels in workers and the identification of research gaps⁵⁷.



Ongoing Horizon Europe calls



PHORIZON-HLTH-2023-ENVHLTH-02-01: Planetary health: understanding the links between environmental degradation and health impacts

Closure: 13.04.2023

• Tot: 30M€

Project size: 5-6M€



HORIZON-HLTH-2023-ENVHLTH-02-03: Health impacts of endocrinedisrupting chemicals: bridging science-policy gaps by addressing persistent scientific uncertainties

Closure: 13.04.2023

• Tot: 40M€

Project size: 6-7M€



 HORIZON-HLTH-2024-ENVHLTH-02-06two-stage: The role of environmental pollution in non-communicable diseases: air, noise and light and hazardous waste pollution

Closure: 19.09.2023

Tot: 60M€

Project size: 7-8M€



 HORIZON-HLTH-2023-CARE-04-03: Environmentally sustainable and climate neutral health and care systems

Closure: 13.04.2023

• Tot: 20M€

• Project size: 4-6M€



HORIZON-HLTH-2023-ENVHLTH-02-04: Global coordination of exposome research

Closure: 13.04.2023

• Tot: 3M€

Project size: 3M€



Forward looking

Strategic Plan 2025-2027













Conclusions and next steps



Thank you for joining us!

Register now for the first ZP Talks
Zero Pollution and the European Year of Skills



Keep in touch:

ENV-ZERO-POLLUTION@ec.europa.eu, zero.pollution.stakeholders@technopolis-group.com

https://ec.europa.eu/environment/zero-pollution-stakeholder-platform en