



The EU Framework Programme for Research and Innovation

HORIZON 2020

Environment and Health Research under Horizon 2020



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The drivers for EU Environment and Health research

Evidence of the impact of environmental factors on human health

'Genetics loads the gun but environment pulls the trigger'

Dr. Francis Collins, NIH Director

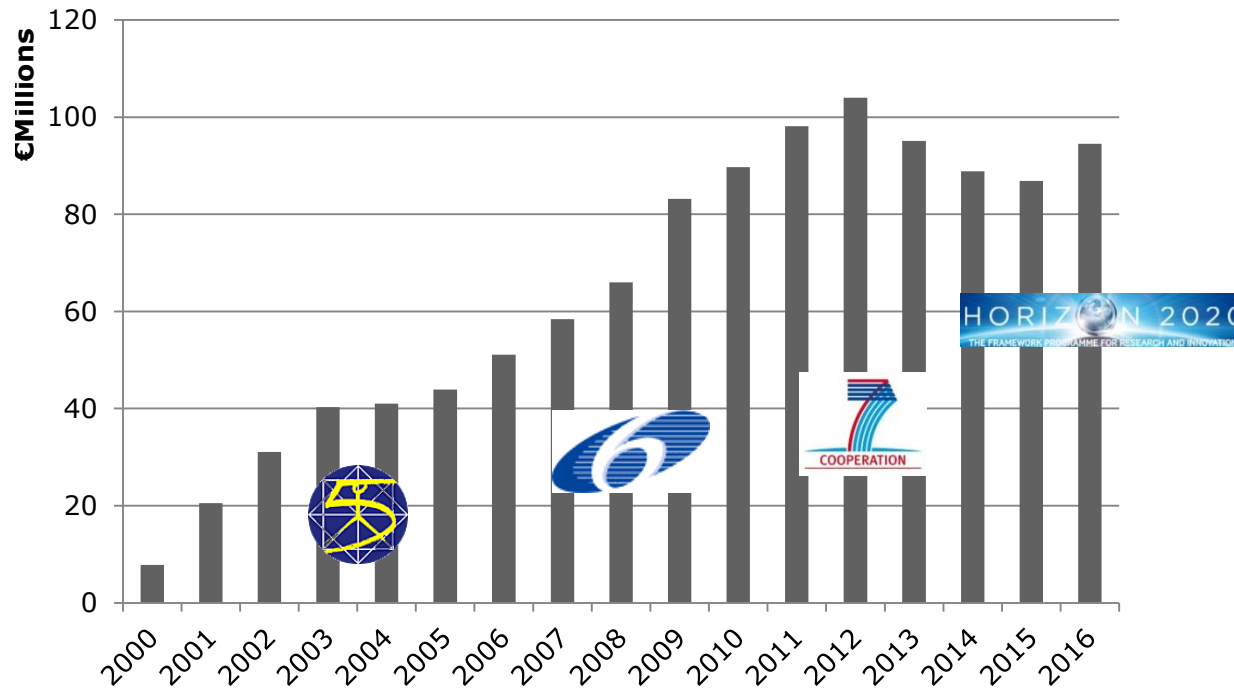


- Sustainable Development Goals (2015-2030)
- WHO Environment and Health Process (since 1989)
- COP 21 Paris Agreement



- The EU's 7th Environment Action Plan (2013-2020)
- Third Programme for the Union's action in the field of health (2014-20)
- Horizon 2020 (2014-2020)
- EU policies & regulations addressing environmental factors

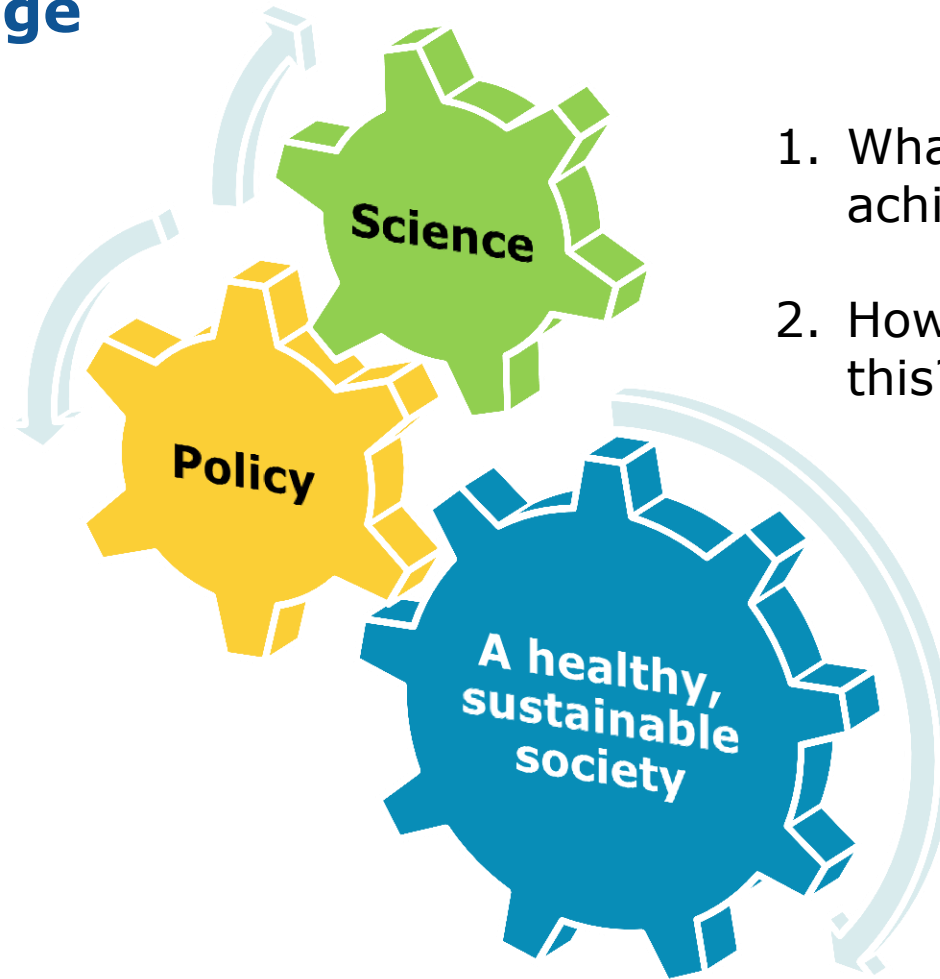
What has been achieved so far?



1. Exposure & health assessment, monitoring
2. Risk assessment, management and communication
3. Policy support: foresight, coordination, interventions, mitigation
 - Lifestyle determinants
 - Air pollution
 - Chemicals
 - Noise
 - Pathogenic agents
 - Radiation
 - Safety of nanomaterials
 - Climate change
 - Waste
 - Water
 - Cohorts
 - Geographic information tools



The challenge



1. What is needed to achieve this?
2. How can FP9 support this?

An example of a new approach:



A **joint** European programme for monitoring and scientific assessment of human exposures to chemicals and health impacts

Comparable and validated human biomonitoring data for sound policy-making - **IPChem**

A reference network of certified laboratories – **HBM Platform**

A **research programme** in line with policy needs: new monitoring and analytical methods, understanding the health impact of exposure

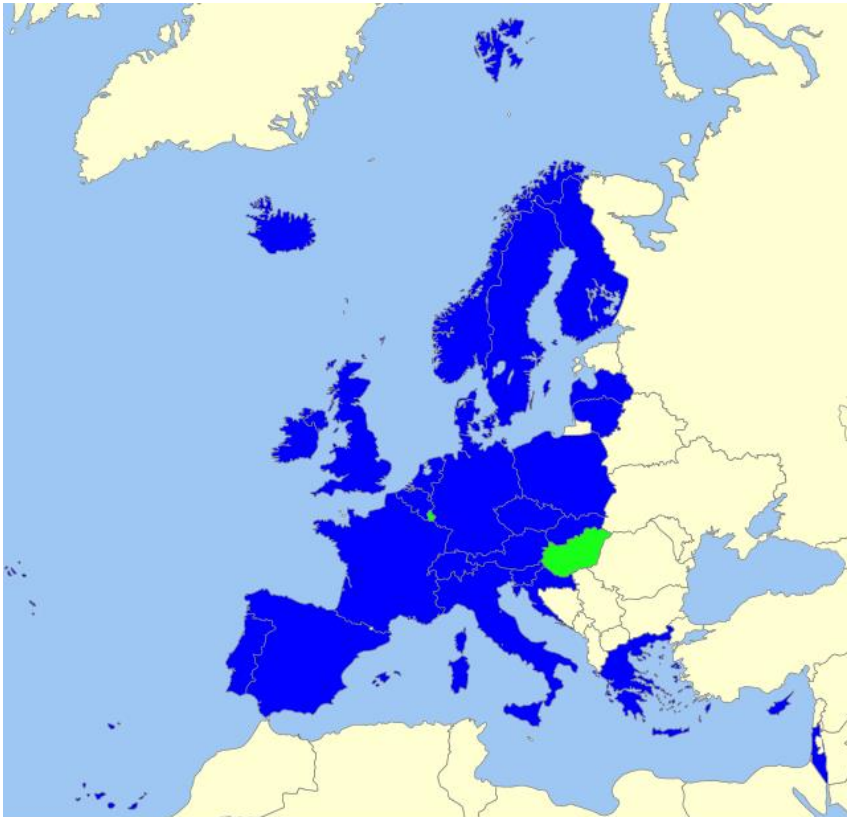
Shared excellence, capacity building and spread of best practice - **Knowledge Hub and training**

A continuous **science to policy dialogue**

Transparent **governance** and long-term **sustainability**

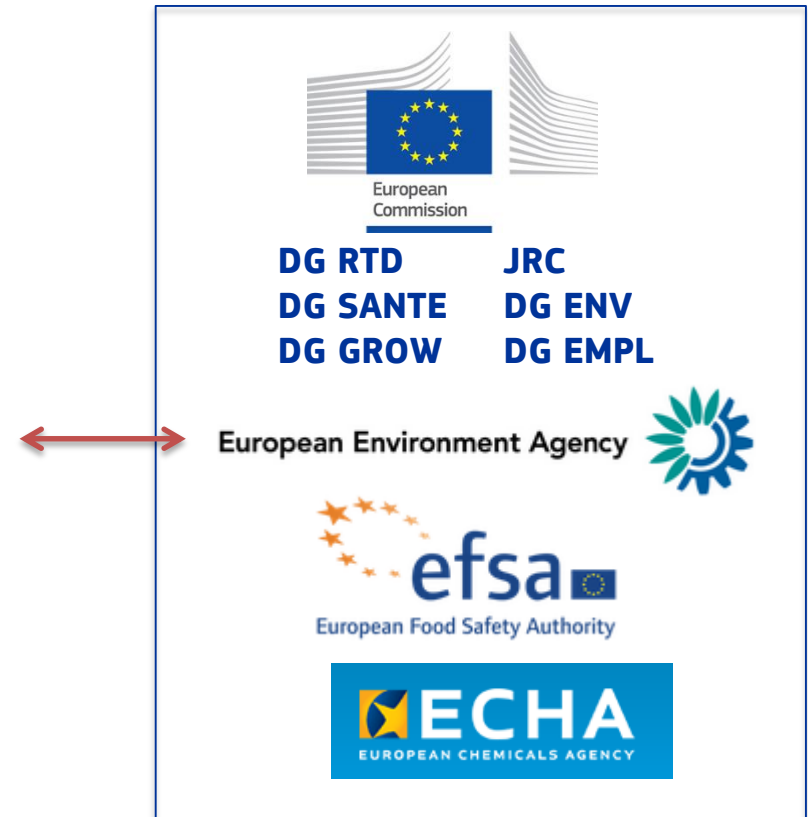
HBM4EU – cross-cutting collaboration

Consortium



Map from <http://philarcher.org/diary/2013/euomap/>

EU Policy Board



Last calls of Horizon 2020

Environment & Health in SC1



Support to regulations
and risk assessment

- screening and testing methods for **endocrine disruptors**
- **animal-free regulatory test methods** for human safety



Identifying
environmental
and lifestyle
risk factors
contributing to
the burden of
disease

- **the Human Exposome**
a toolbox and case studies for
assessing and addressing the
impact of environment on health



Setting the agenda of
the future

- European **research and innovation strategy and agenda**

Disclaimer: The 2018-2020 work programme for 'Health, demographic change and well-being' is still under discussion with the Programme Committee and has not been adopted or endorsed by the European Commission. The information provided here is therefore only indicative and can still be subject to change.

Beyond SC1, beyond research.....

Horizon 2020

- SC3: Smart, Green and Integrated transport
 - Transport and air quality
- SC5: Climate Action, Environment, Resource Efficiency and Raw Material
 - Sustainable Cities & well-being
 - Climate change

Urban Agenda for the EU

- Urban Partnership for air quality
- Circular Economy Partnership

Thank you for listening!

More information:

<https://ec.europa.eu/research/health/index.cfm?pg=policy&policyname=environment>
with links to key projects and publications

<https://ec.europa.eu/programmes/horizon2020/>
Upcoming calls and information days

<https://ec.europa.eu/research/index.cfm?pg=events&eventcode=60956678-FA2F-4FE0-77E88D89843C91BE>
Health Info Day – 8 December 2017, Brussels