



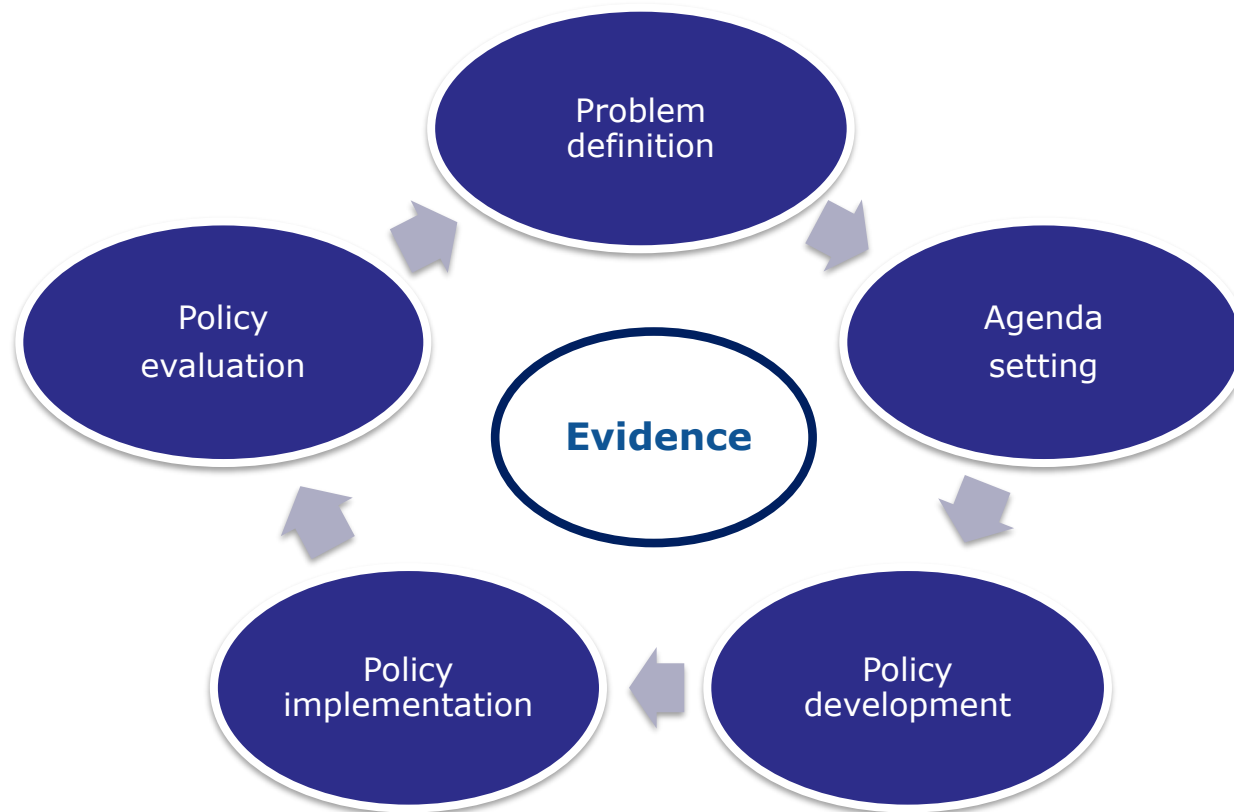
# The use of monitoring data in chemical and environmental legislation

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# Exposure assessment informs each step of policy cycle



# Exposure assessment is used in plethora of EU legislation

- *Chemical legislation*
  - **REACH**
  - **Regulation on Persistent Organic Pollutants**
- *Sectorial product legislation*
  - **Plant Protection Products, Biocidal Products Regulation**
  - **Cosmetics Regulation, Toys directive**
  - **Food contact materials, Regulation on Medical Devices**
- *Worker protection legislation*
  - **Carcinogens and mutagens directive**
  - **Chemical agents directive**

# Exposure assessment is used in plethora of EU legislation

- *Food legislation*
  - **General Food Law Regulation**
  - **Legislation on food additives**
  - **Legislation on flavourings**
  - **Legislation on contaminants**
  - **Legislation on residues of veterinary medicinal products and of plant protection products**
- *Environmental legislation*
  - **Water legislation (drinking, ground, surface, marine)**
  - **Air legislation (ambient air quality directive, legislation on large combustion plants, directive on industrial emissions)**

# Gaps in knowledge on exposure



COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 27.2.2001  
COM(2001) 88 final

## WHITE PAPER

Strategy for a future Chemicals Policy



EUROPEAN COMMISSION

Brussels, 31.5.2012  
COM(2012) 252 final

COMMUNICATION FROM THE COMMISSION TO THE COUNCIL

The combination effects of chemicals

Chemical mixtures



# 7<sup>th</sup> Environment Action Programme

- *Priority objective 5: To improve the knowledge and evidence base for Union environment policy*
- *This requires, in particular:*
  - [...]
  - **Developing a comprehensive chemical exposure** and toxicity **knowledge base** which draws on data generated without animal testing where possible. **Continuing the Union's coordinated approach to human and environmental biomonitoring** including, where appropriate, standardisation of research protocols and assessment criteria
  - [...]

# Data platforms and repositories

- Information platform for chemical monitoring (IPCHEM)

# IPCHEM

**Access point for discovering, accessing and retrieving chemical occurrence in various media across the world**

**Distributed infrastructure**

but also offers **hosting facilities** for orphan and research data



**Facilitates access and provide hosting facilities**  
**Improves data quality and comparability**  
**Facilitates assessment**  
**Streamlines reporting**



# Data platforms and repositories

- Information platform for chemical monitoring (IPCHEM)
- Please join IPCHEM for occurrence data
- Basic principles for any data platforms/repositories
  - **Save at source and provide remote access**
  - **Open access for data**
  - **Repositories should be managed/hosted by public authorities**
- Work on controlled vocabularies and dictionaries / interoperability

## Data generation / monitoring

- Legal requirements to monitor presence of chemicals (food/feed, environmental and worker protection legislation) – usually regulated substances
- Watch list under Water Framework Directive – focus on un-regulated substances
- Human biomonitoring for EU (HBM4EU)

# Data generation / monitoring

- Environment biomonitoring for EU – missing
- Screening for unknowns
  - effect monitoring
  - non-target screening
- Better engagement of EU agencies needed – e.g. UVCB substances

# Non-target screening

- Identification of problematic substances and/or sources that require risk management measures
- Part of a warning system that detects possibly problematic substances that passed the safety net



**Thank you for your  
attention**