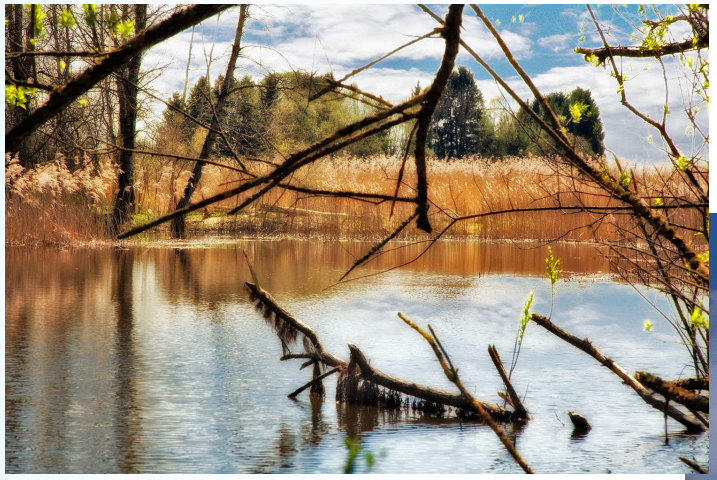
REACH(ing) sustainable development

Safe use of chemicals

ICCE Oslo 21 June 2017

European Chemicals Agency
Rupert Simon

Chemicals everywhere



How can we deal with this?

State-of-the-art

Outlook

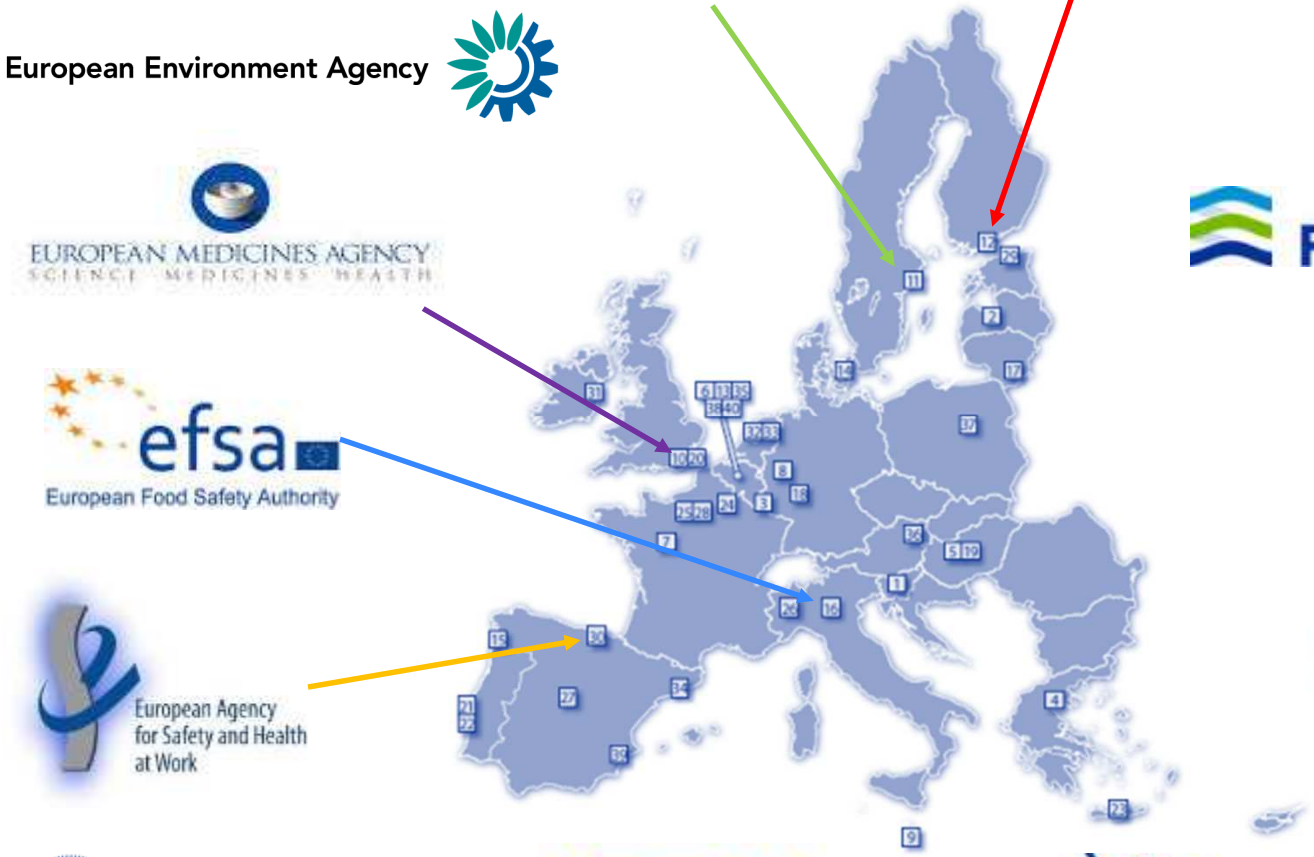
- ECHA
- REACH and CLP
- Information on ECHA website
- Information Platform IPCHEM
- Summary

ECHA

- Started on 1 June 2007
- ~600 staff from 28 countries
  - 2007: REACH
  - 2009: Classification, Labelling and Packaging
  - 2013: Biocides
  - 2014: Prior Informed Consent
  - 2017: Nano observatory
  - 2017: Poison centre

EU Agencies

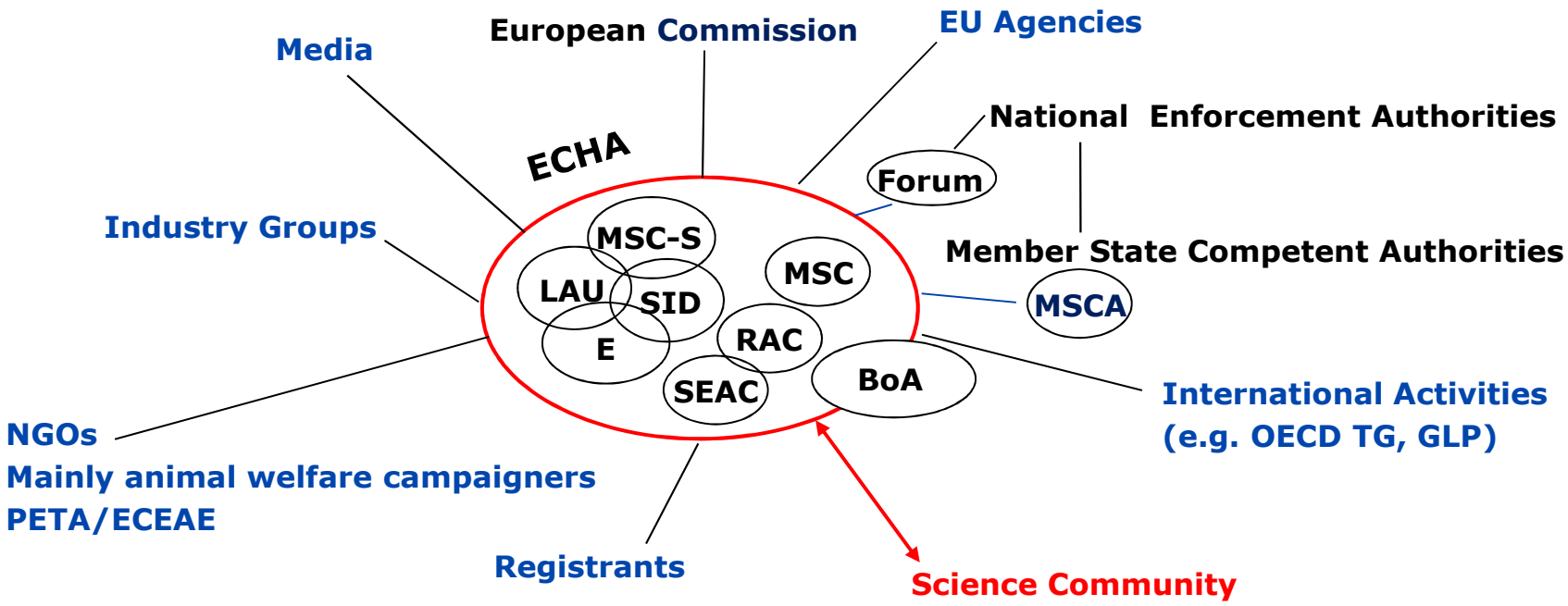
> 40



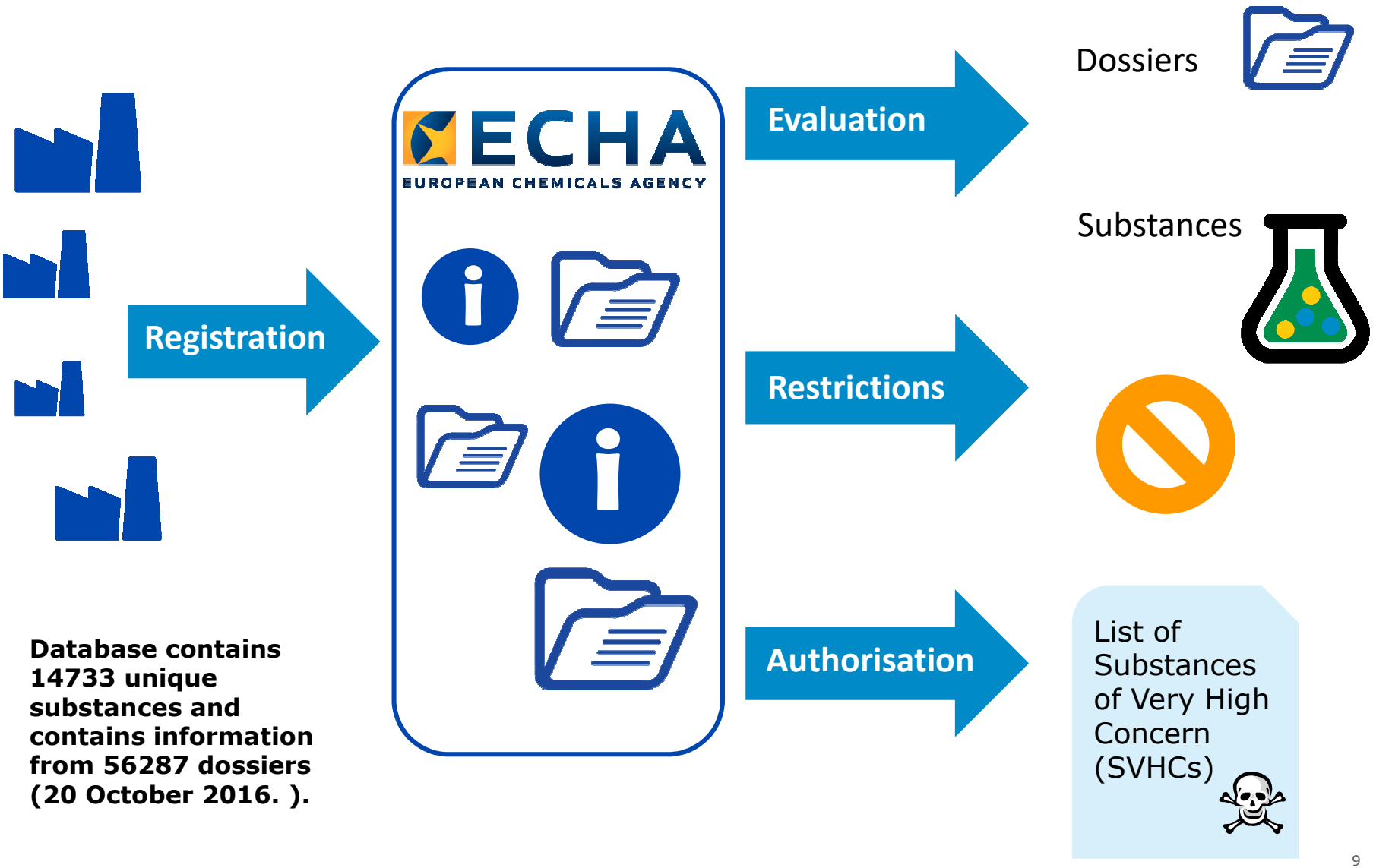
REACH Principles

- Industry is responsible for the safe manufacture and use
- Deal with the 'burden of the past' with a systemic program for registration of old chemicals
- Get **information on hazards** minimising the use of experimental animals and costs
- Coordinated activities by ECHA, EU Member States, the European Commission and National Enforcement Authorities to get effect

Stakeholder environment



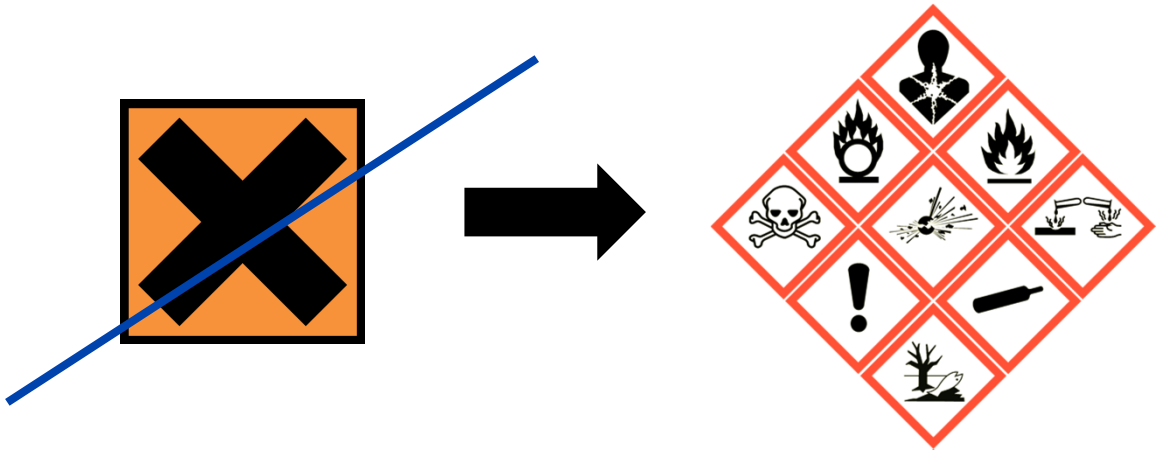
REACH: processes



Database contains 14733 unique substances and contains information from 56287 dossiers (20 October 2016.).

Classification and labelling

- CLP Regulation
  - **Implements the UN-system in the EU**
  - Transitional period from 2010 to 2015 is over
  - New symbols in products by 2017



ECHA and CLP

- Establish and maintain C&L inventory
  - over 5 million notifications covering more than **100 000 substances**
- Harmonised C&L
  - proposals by MSCAs or industry
  - 90 per year expected
  - Monitor in Registry of Intentions

Info card

Methanol

↓Other names: Regulatory process names [2] Trade names [24] IUPAC names [5]

Substance identity

EC / List no.: 200-659-6

CAS no.: 67-51-1, 67-56-1

Mol. formula: CH4O

$HO — CH_3$

Hazard classification & labelling

Danger! According to the **harmonised classification and labelling** (CLP00) approved by the European Union, this substance is toxic if swallowed, is toxic in contact with skin, is toxic if inhaled, causes damage to organs and is a highly flammable liquid and vapour.

Additionally, the classification provided by companies to ECHA in **REACH registrations** identifies that this substance is suspected of causing cancer.

About this substance

This substance is manufactured and/or imported in the European Economic Area in 10 000 000 - 100 000 000 tonnes per year.

ECHA has no public registered data indicating whether or in which chemical products the substance might be used.

Properties of concern

PBT

Important to know

- Substance included in the Community Rolling Action Plan (CoRAP).

How to use it safely

- Precautionary measures suggested by manufacturers and importers of this substance.
- Guidance on the safe use of the substance provided by manufacturers and importers of this substance.

ECHA
EUROPEAN CHEMICALS AGENCY

Methanol

EC number: 200-659-6 | CAS number: 67-56-1

- General information
- Classification & Labelling & PBT assessment
- Manufacture, use & exposure
- Physical & Chemical properties
- Environmental fate & pathways
- Ecotoxicological information
- Toxicological information

General information

Identification | Compositions | Registration data | Administrative data | Contact Persons responsible for the SDS

Identification

Display Name:	Methanol
EC Number:	200-659-6
EC Name:	Methanol
CAS Number:	67-56-1
Molecular formula:	CH4O
IUPAC Name:	methanol

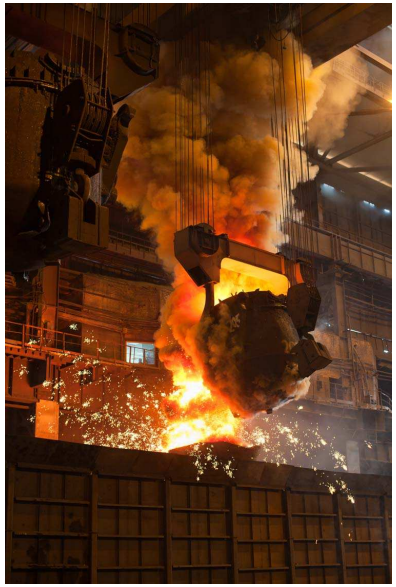
Type of substance

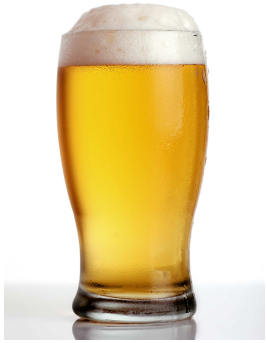
Composition:	mono constituent substance
Origin:	organic

Other names

Substance under REACH

… obtained by any manufacturing process … including any impurity deriving from the process used …



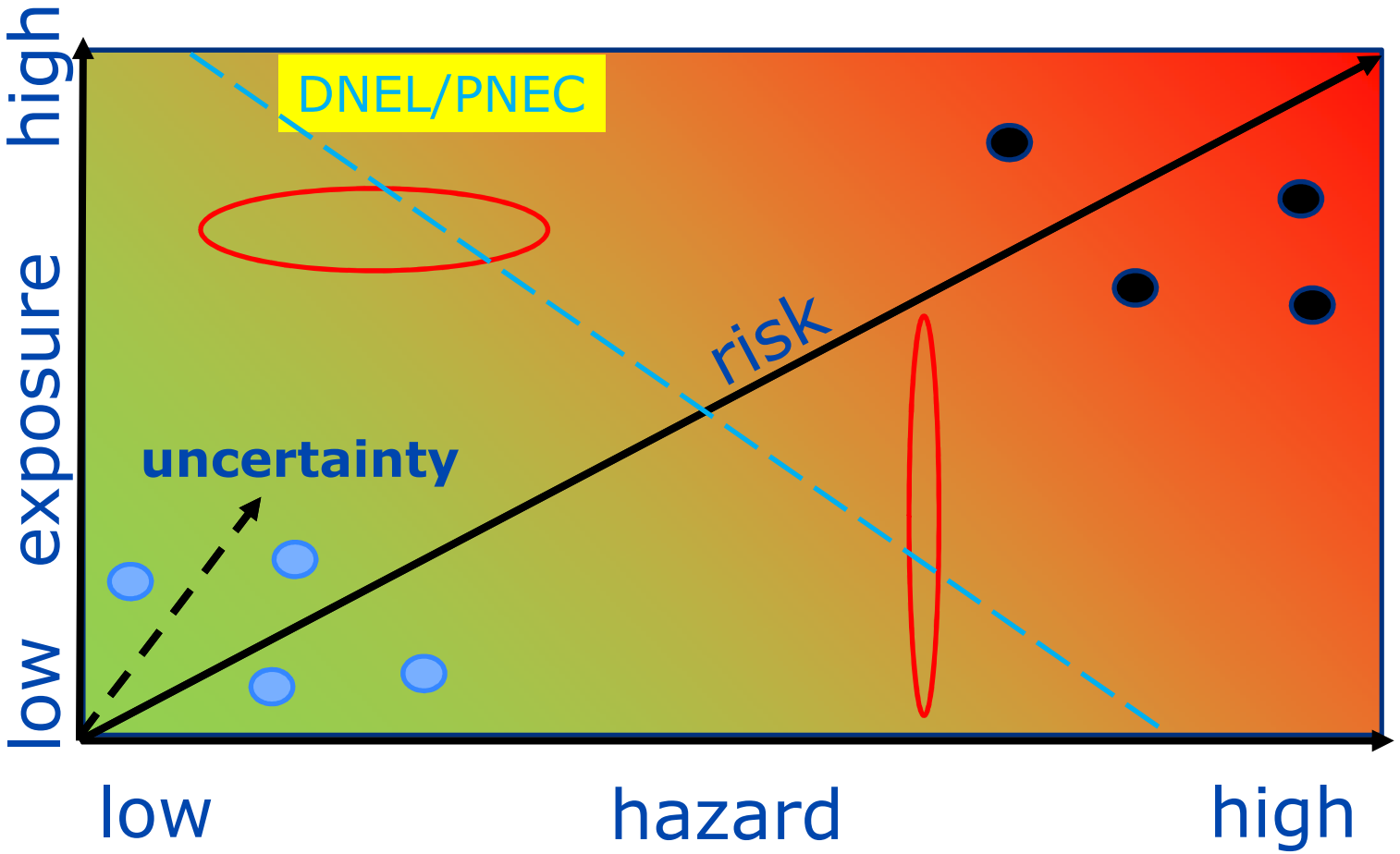


Type of substances

- single constituent (80% rule)
  - Main constituent 80-100%
  - Minor constituents, impurities <10%
- multi constituent
  - Main constituents 10-80%
  - Minor constituents, impurities <10%
- unknown and/or variable composition or biological origin (UVCB)
  - Process defines substance
  - Characterisation by groups of constituents

Map the chemical universe

Risk = probability of adverse effects



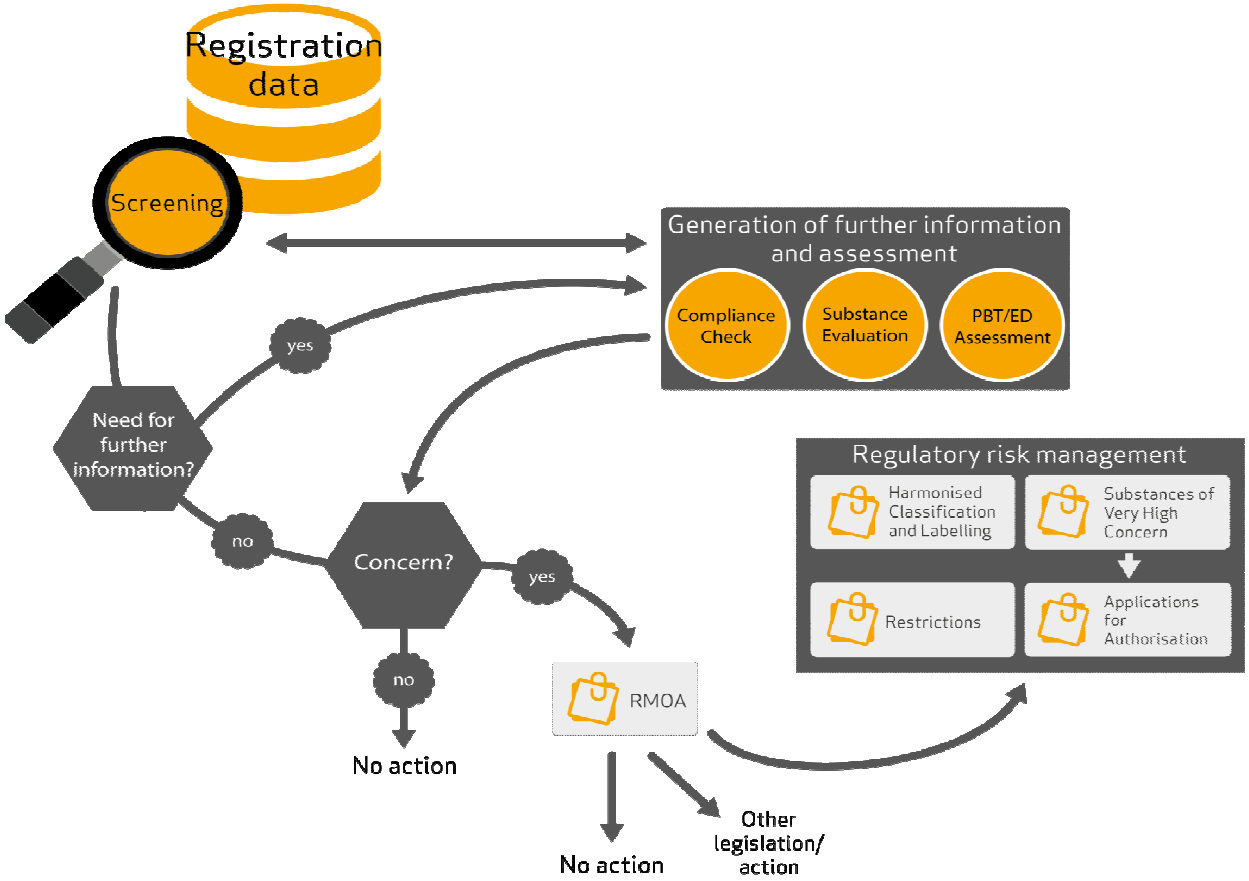
Building a bridge

Information Platform for Chemical Monitoring Data

IPCHEM - the Information Platform for Chemical Monitoring is the European Commission's reference access point for searching, accessing and retrieving chemical occurrence data collected and managed in Europe.

https://ipchem.jrc.ec.europa.eu/RDSIdiscovery/ipchem/index.html

Connecting processes



Known unknowns

- PBT/vPvBs
  - Nano Materials
  - Per-fluorinated substances
  - Metals
  - Endocrine disruptors
- Emerging concerns
  - Substances in articles and mixtures
  - Reliability of SDS (alternative truth: readily biodegradable)
  - Mixture toxicology
  - Accumulative effects
  - New pollutants
- Circular economy

Summary

From research to regulation and back

1. WSSD2020
2. ECHA
3. REACH and CLP
4. Info on ECHA website
5. IPCHEM

The team

Questions?

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