

# European Partnership for the Assessment of Risks from Chemicals

Horizon Europe

PARC perspective

Sanders Pascal

EPAA Annual Conference

Brussels, 15/11/2022



# PARC in a Nutshell

**Status:** Co-funded European Partnership for Assessment of Risks from Chemical under Horizon Europe. Public partnership.

**Started:** 1<sup>st</sup> of May 2022 for 7 years – Focus on components of Chemical Risk Assessment.

**Vision:** To establish a **Science to Policy dialogue** and interface to apply the long term visions of **European policies** (notably the Chemical Strategy for Sustainability) and to establish a hub of excellence enabling the transition to the **Next Generation Risk Assessment**.



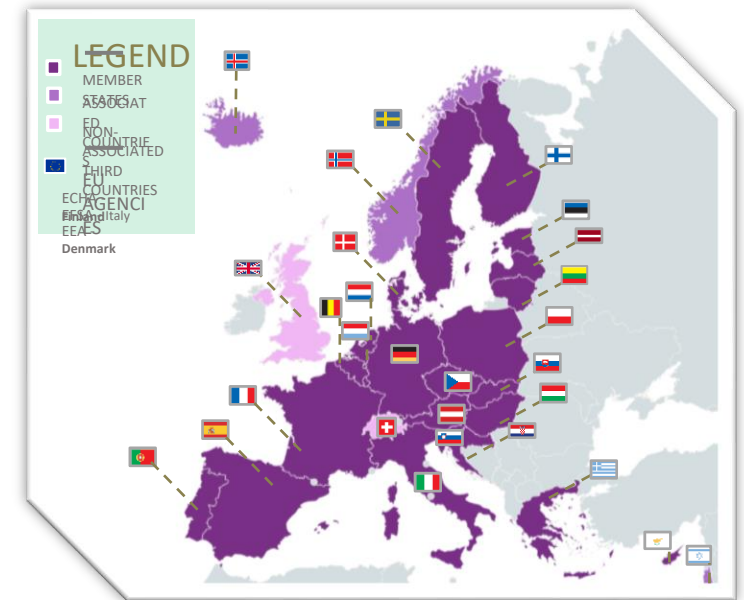
© Anses - Xavier SCHWEBEL.

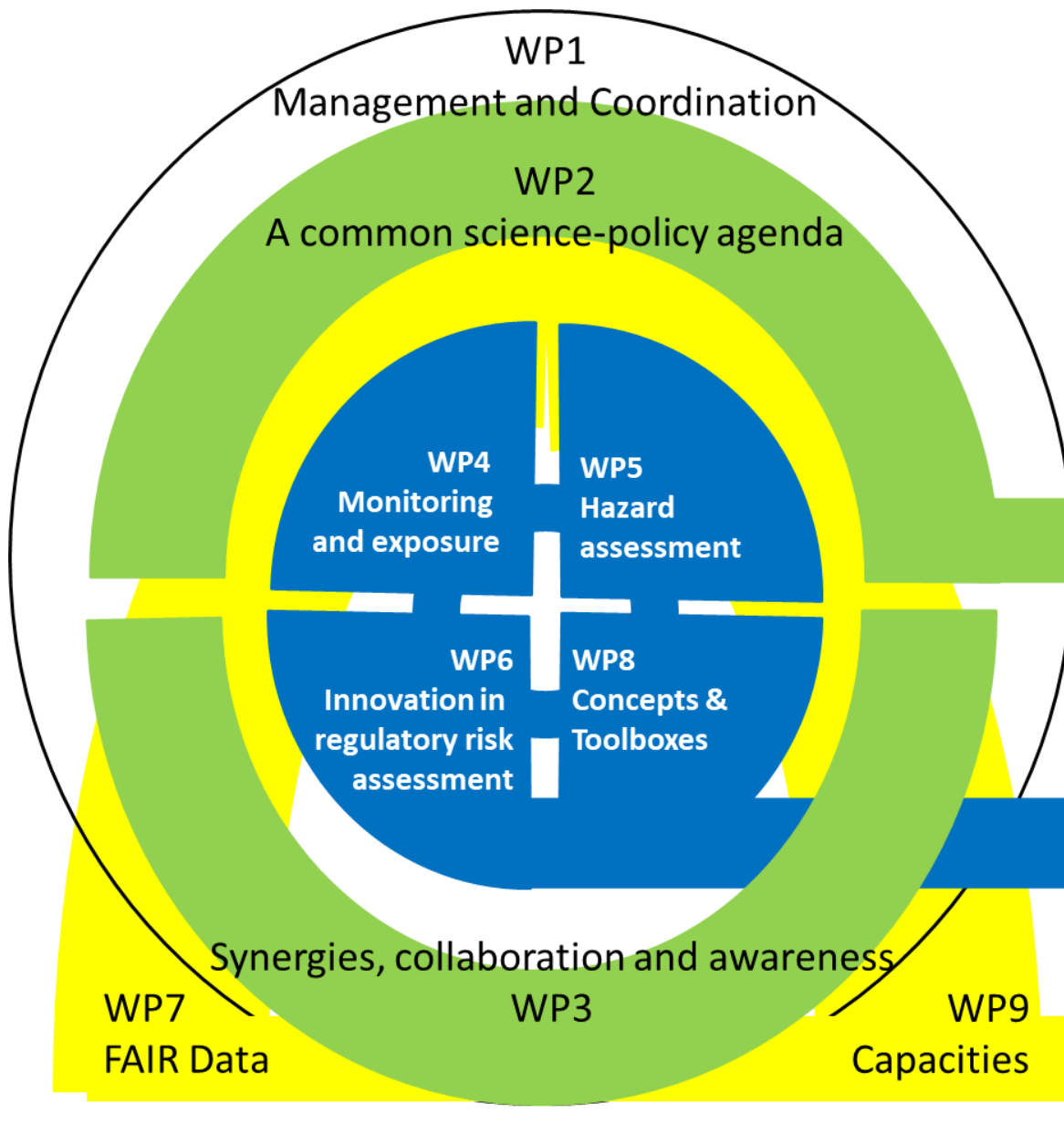
PARC Kick-off 12-13 May 2022

Under **Horizon Europe** Pillar II – Global challenges and Industrial Competitiveness  
Cluster 1 – **Health**

Coordinated by **ANSES (France)**  
Nearly **200 organisations** from **28 countries**  
and **3 EU agencies**: EEA, EFSA, ECHA

Estimated budget of over **400M€**





## PARC Objectives

Our general objective is to **consolidate and strengthen** the EU's Research and innovation capacity for chemical Risk Assessment to **protect human health and the environment**

- 1 High level network for regulatory science interface
- 2 Research & Innovation towards Next Generation Risk Assessment
- 3 Capacities and Platforms

# PARC in a Nutshell

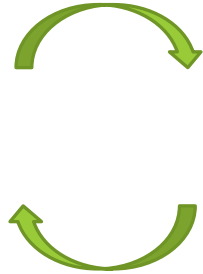
## PARC Purpose in the field of Alternative Approaches to Animal testing:

to engage in overcoming barriers to the usability of alternative (non-animal) assessment methods for regulatory purposes by providing test guidelines for certain endpoints and proof of the biological or toxicological relevance of the endpoints assessed for human health.

The functionality, applicability and relevance and, when possible, validation of new and existing *in vivo*, *in vitro* and *in silico* models will be addressed and their up-take by the regulatory system supported.

### New Approach Methods :

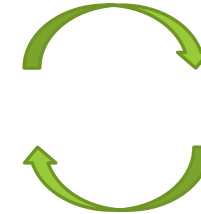
Any technology, methodology, approach, or combination thereof that can be used to provide information on chemical hazard and risk assessment that avoids the use of intact animals. US EPA definition.



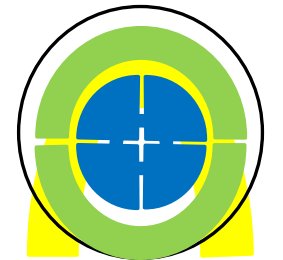
### Next Generation of Risk Assessment :

Use data from "New Approach Methods" (NAMs) for risk assessment.

Tiered combinations of *in silico* tools, *in vitro* systems, organ models and Omics in conjunction with physiologically based toxicokinetic modelling and complex exposure models.

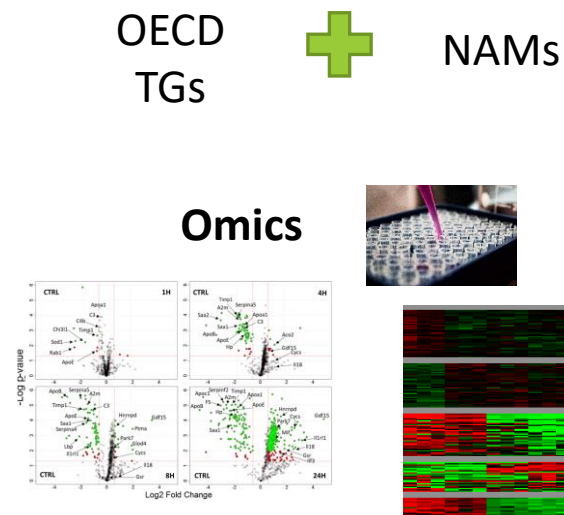
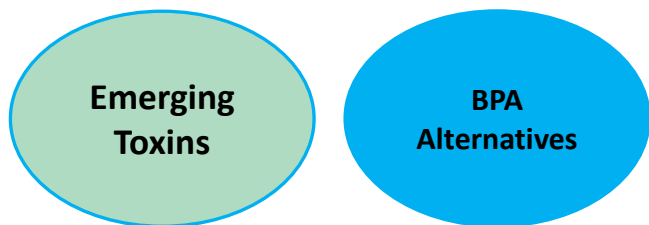


NAMs robust and acceptable for regulators



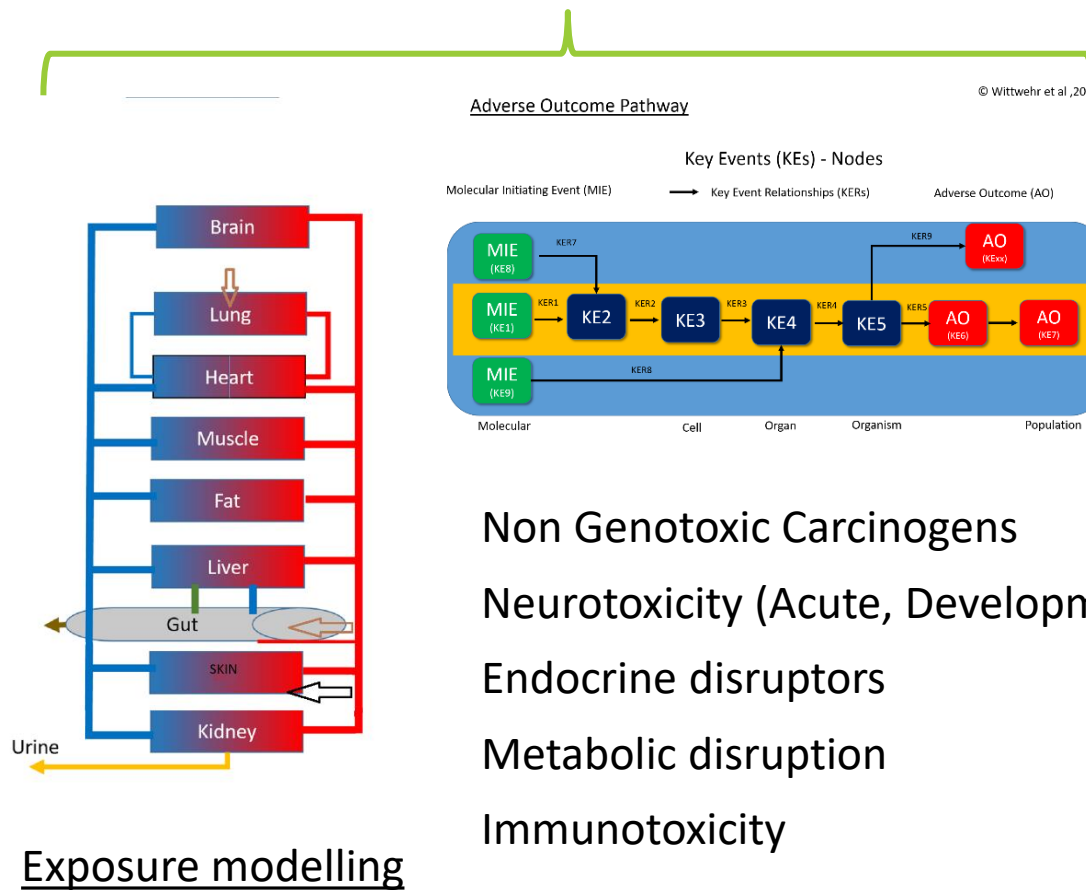
# PARC activities and projects in relation with NAMs

## WP5 Hazard assessment / WP6 Innovation in regulatory risk assessment

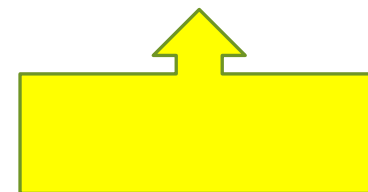


FAIR (WP7)

### Integrated Approach to Testing and Assessment



Knowledge (WP2)  
Training (WP9)  
QA/QC (WP9)



Case studies



WP8  
Concept & Toolboxes



# How can we see the collaboration?

Industry

European Commission

Member States



Collaborations  
Synergies



The European Partnership  
for Alternative Approaches to Animal Testing

On going projects

Carcinogenicity of agrochemicals

QIVIVE (Quantitative in vitro to in vivo extrapolation)

PBK Modeling in safety assessment

Non Animal science in regulatory decisions for chemical safety



Planned projects

Non genotoxic carcinogens

QIVIVE, PBPK modeling and System Toxicology, IATAs

Exposure modeling

Stakeholder forum

- Industry
- NGOs

Mutual Consultation



Exchange on case studies  
FAIR Models/Data  
Identification of gaps/needs



Mapping of ressources



Training

