



# Commission Roadmap towards phasing out animal testing for chemical safety assessment

State of play of the roadmap development –  
for REMA / Human World for Animals event

*20 February 2025*

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# Introduction

- The roadmap provides a **plan/schedule** to accelerate reaching the goal of phasing out animal testing
- Commission Communication
- Roadmap to be **finalised latest in Q1 2026**
- **Implementation phase** – long-term undertaking
- Applicable to **all relevant pieces of EU chemical legislation** that might lead to animal testing for **chemical safety assessments**
  - 15 legislative areas identified



# Introduction

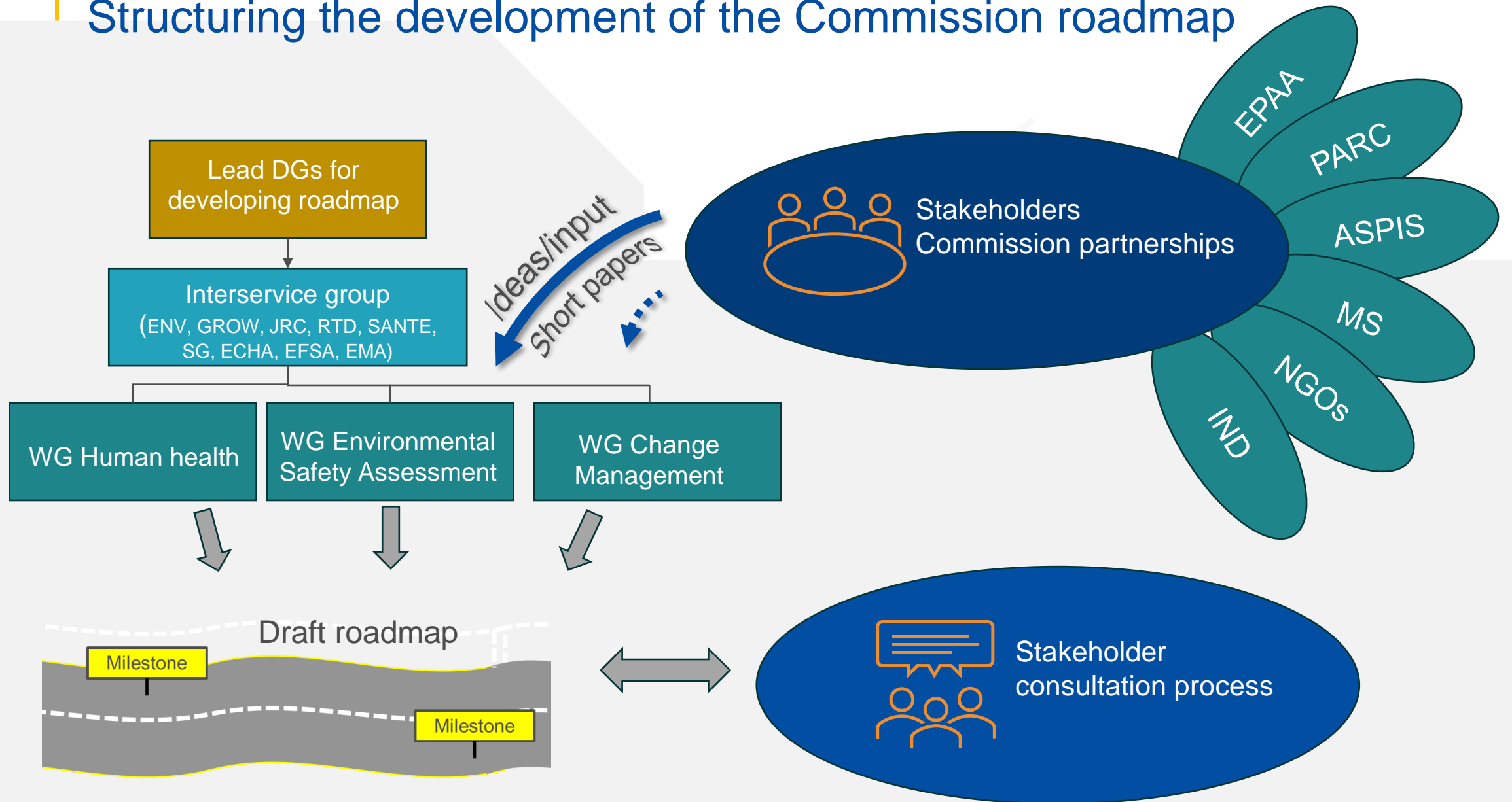
The roadmap will

- List **concrete action points** (e.g. recommendation on how to replace/reduce/refine animal testing for certain endpoint / area of concern)
- Contain **milestones** (e.g. agreement on regulatory needs for complex endpoints)
- Define **indicators** that help to monitor the progress of the implementation
- Recommend and possibly define **organisational structures** that are necessary for the implementation process

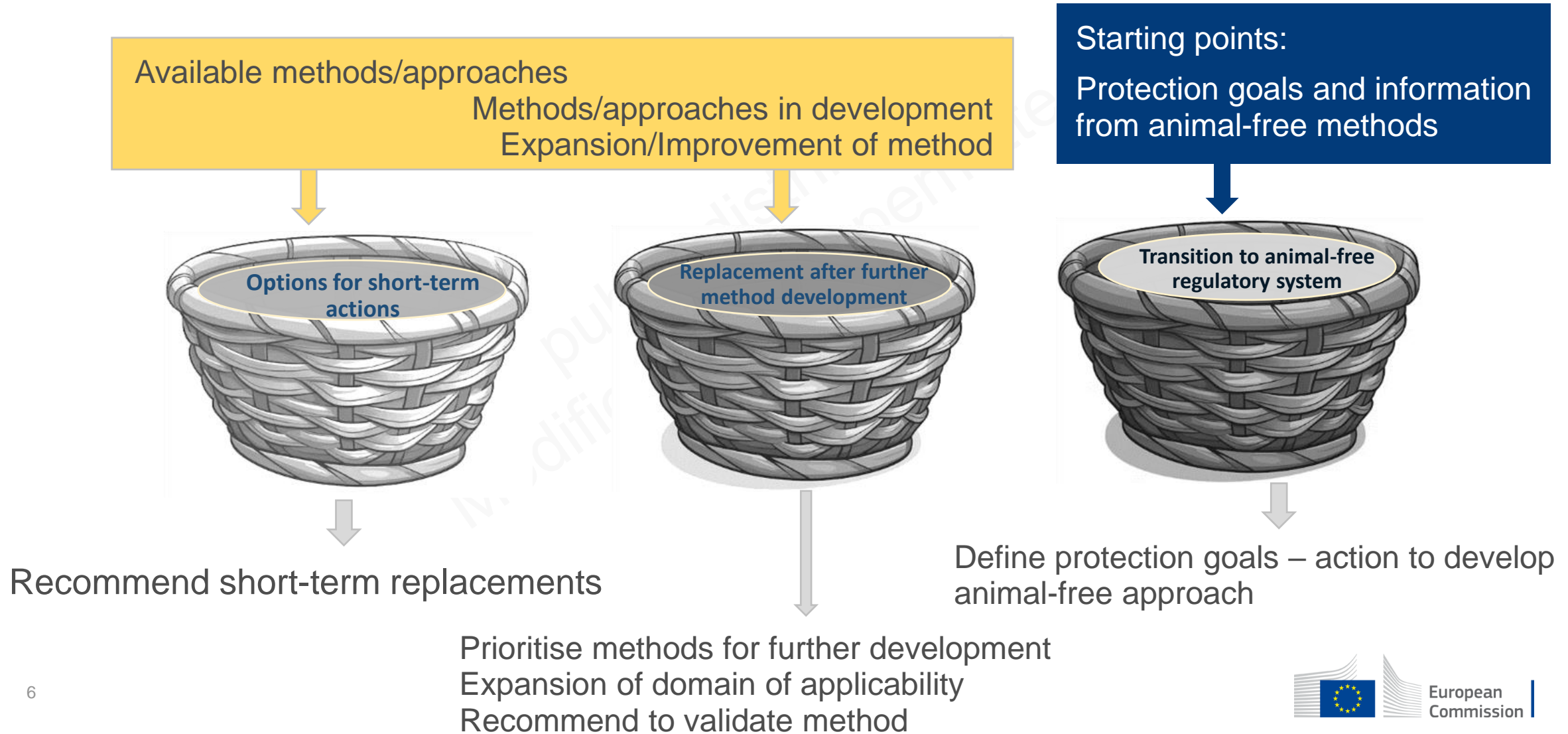


# Organisation of the roadmap development

# Structuring the development of the Commission roadmap



# Elements of the roadmap – three baskets



# Elements of the roadmap – three baskets

- Currently, COM WGs on Human Health and Environmental Safety Assessments are identifying potential methods/approaches for 1<sup>st</sup> and 2<sup>nd</sup> basket and discuss the way forward to fill the 3<sup>rd</sup> basket
- Expectation for roadmap:
  - 1<sup>st</sup> basket: Recommendations for short-term replacements
  - 2<sup>nd</sup> basket: Recommendations for methods/approaches to be further developed or expanded
  - 3<sup>rd</sup> basket: Recommendations for performance criteria for future methods/approaches  
Identification of the necessary organisational structures for sustaining the development of animal-free system
- ➔ **Introduction of recommendations into legislation to follow the normal processes (e.g. discussion in MS competent authorities subgroup under pharma legislation + legislative procedure)**

State of play of the roadmap development



Update from the WG on Human Health

# Discussion points – Human Health

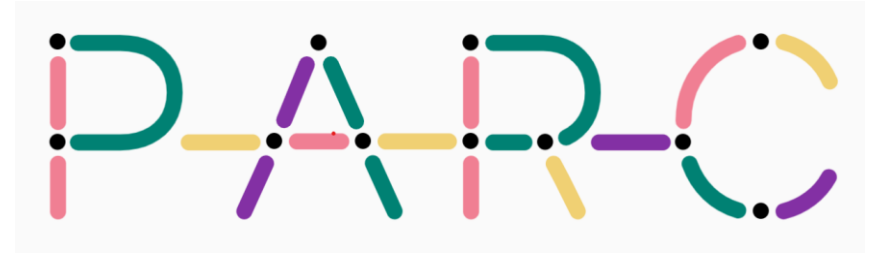
- **HH WG met 4 times in 2024, once in 2025**
- **Overview of animal testing requirements for chemical safety assessments under all legislation in scope:** Current requirements with some info on replacement suggestions has been catalogued.
- **Collecting suggestions for short - medium – long-term actions with their motivation**
- **Short-term solutions for replacing, removing or reducing animal testing discussed:**
  - **Replacement** of acute oral toxicity by QSARs / computational methods
  - **Replacement** of in vivo toxicokinetics by in vitro/ in silico toxicokinetics (REACH)
  - **Removal** of dog study (pesticides) - ongoing
  - **Removal** of 90-day study for GMO whole product and enzymes – considered
  
  - ECETOC - three projects that aim to reduce in vivo studies
  - ASPIS & EMA - reduction strategy for carcinogenicity studies (based on 90-day study and in vitro)

# Discussion points - continued

- **What's still required to make existing Alternatives the default choice?**
  - Acute toxicity test replacement by QSAR as a model case for describing which steps are needed for the actual use of the alternative per legislation.
- **Replacing animal testing for complex (systemic) endpoints**
  - Aim to propose **performance and acceptance criteria** for new approaches (universal)
  - Aim to propose **uncertainty criteria** (likely sector dependent). RISKHUNT3r is developing an uncertainty framework (in a specific context).
  - Aim to define more clearly what information regulators need from a new, non-animal-based testing system

# Related projects – Collaboration

- **PARC NGRA-Route:**  
proposal for “Next- Generation Risk Assessment” becoming the default risk assessment approach in various EU chemical legislations
- ASPIS EU-research project cluster:  
**Alternative Safety Profiling Algorithm (ASPA)**, a NGRA-framework
- **EPAA projects**
  - Acute Toxicity, Skin Sensitization, Carcinogenicity
  - Endocrine Disruption
  - NAM User Forum
  - NAM Designathon Challenge
- **International Stakeholder NETwork** on Developmental and Reproductive Toxicity - Roadmap for **DART**-assessments



Meeting Report

**International Stakeholder NETwork (ISTNET)  
Workshop for Creating a Developmental and  
Reproductive Toxicity (DART) Testing Roadmap  
for Regulatory Purposes**

doi:10.14573/altex.2410081

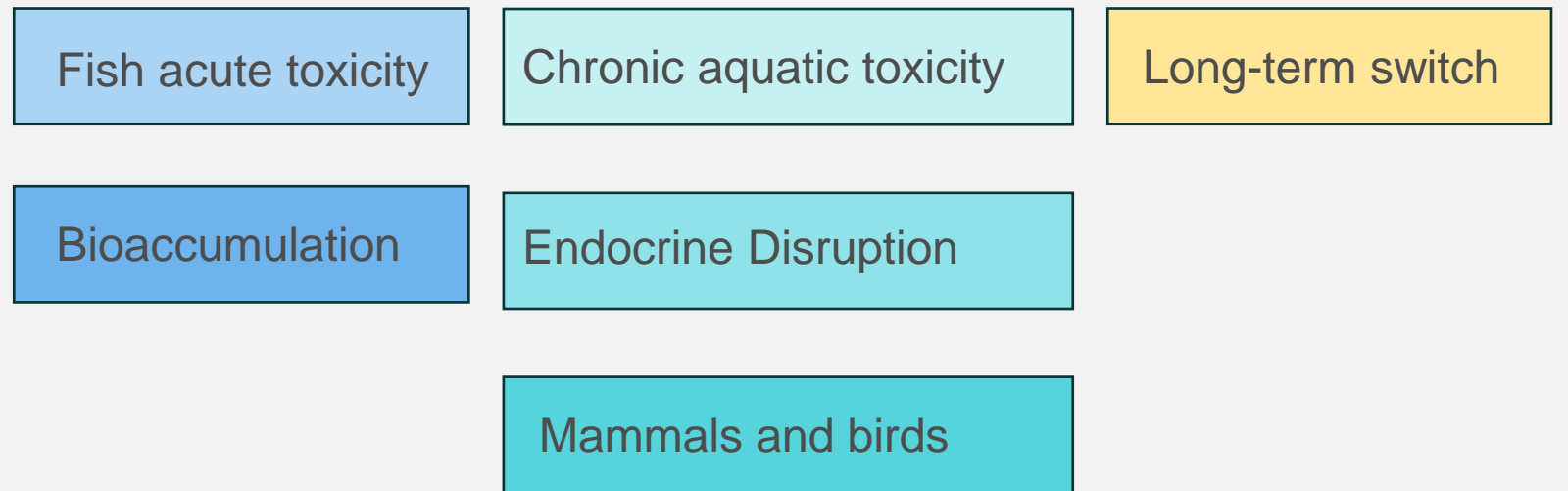
Update from the *WG* on Environmental Safety Assessment

# WG on Environmental Safety Assessment (ESA)

Based on input received from

- ❖ ECHA
- ❖ EFSA
- ❖ EPAA Project Team ESA
- ❖ Others

Discussions in the WG ESA on draft recommendations on



1<sup>st</sup> basket

3<sup>rd</sup> basket



Update from the WG on Change Management

# Change Management Working Group – Tasks:

1. Introducing the concept of **transitional initiatives**
2. Developing **indicators** to monitor progress
3. Conducting **bilateral stakeholder discussions** to understand the incentives and concerns from their specific perspective
4. Proposing **collaboration models** to promote trust among stakeholders and develop confidence in non-animal assessment strategies



## Scope:

-  Informing & inspiring the roadmap construction
-  Make the roadmap implementable





# Transitional Initiatives – Units of Change

## Transitional initiative

Any initiative contributing directly or indirectly to the replacement or reduction of animal use in regulatory assessments.



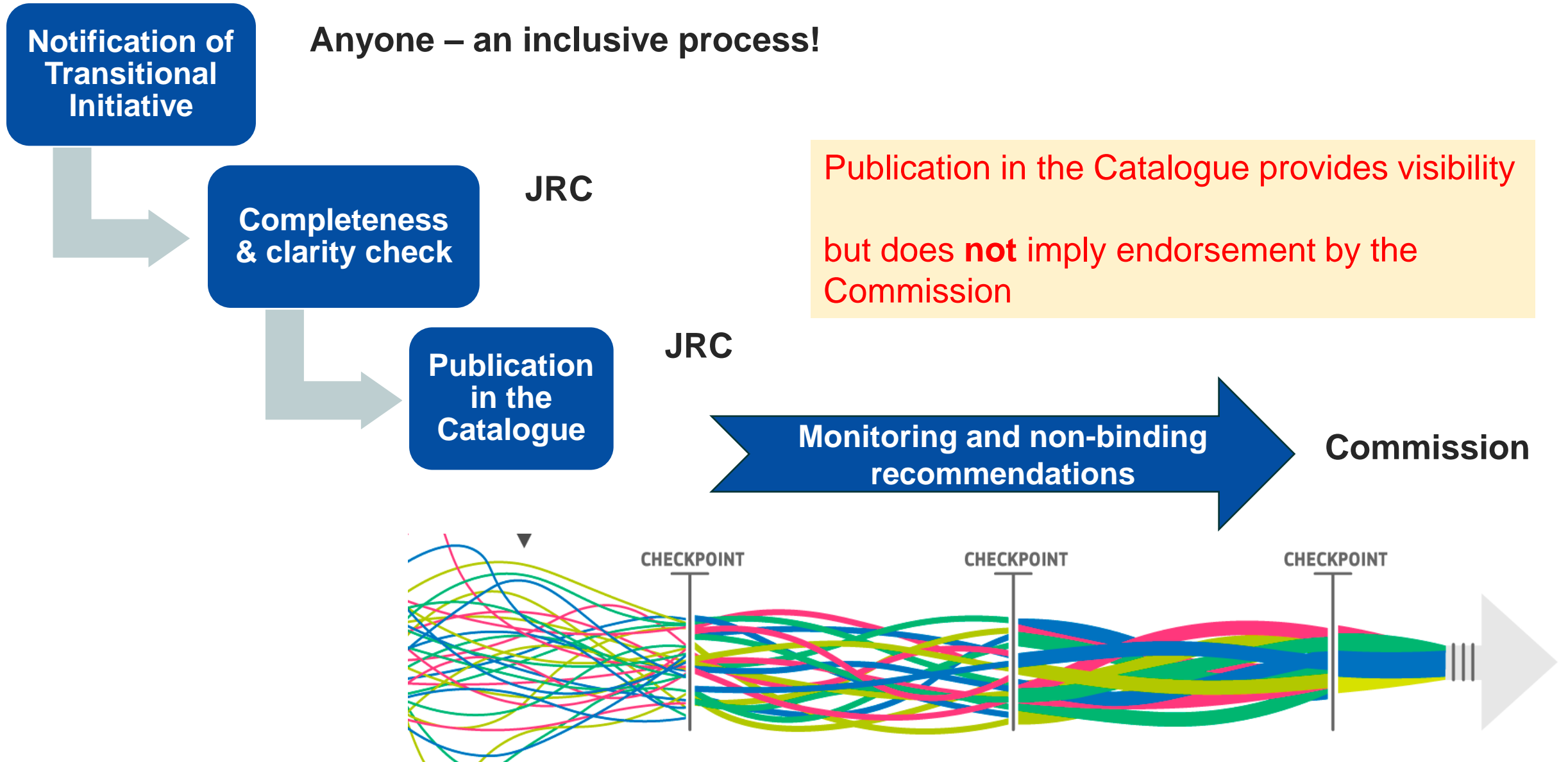
### Output:

concrete deliverable  
resulting from an activity.

### Intended Outcome:

the change we hope it  
will contribute to.

# Transitional Initiatives – the process



# Notify transitional initiatives via EUSurvey

1. Title
2. Contact details of notifier
3. Short description

4. Planned output(s)
5. Planned date of output(s)
6. Intended outcome
7. Indicative date of outcome
8. Source(s) of funding

9. Suggested indicators
10. Additional information
11. Upload outputs

Required field

Optional field



Test Method Development

Acceleration of Validation

# Test Method Development, Validation, Standardisation, Qualification

- Commission commitment with Communication C(2023)5041 replying to the European Citizens' Initiative:
  - 'Core of the roadmap will be to analyse and to describe the necessary steps to replace animal testing in pieces of legislation that currently require animal testing for chemical safety assessments. The roadmap will outline the path to **expand and accelerate the development, validation and implementation of non-animal methods** as well as means to facilitate their uptake across legislations.'

# Test Method Development, Validation, Standardisation, Qualification

- Part of the (development of the) roadmap are **analyses** and **recommendations**
  - On **potential priorities** for method development needs for animal-free methods (2<sup>nd</sup>/3<sup>rd</sup> basket)
  - On **organisational structures** necessary for continued prioritisation of method development and validation during the implementation phase
    - Options for (better) **funding** for validation
    - Possibilities for **accelerating** the **validation** process
    - Learnings from the **qualification** process (EMA, EFSA)



Outreach and stakeholder involvement

# Stakeholder Consultation – Call for Evidence

- Call for Evidence was open 17 Sept. – 15 October 2024 (91 contributions received)

## High-level statements on call for evidence as summarised by consultant

- More work needed on (or significant challenges associated with) the development and validation of non-animal methods for **complex hazard endpoints**, including endocrine disruption, carcinogenicity, reproductive toxicity, repeated dose toxicity, and developmental effects.
- Stakeholders widely acknowledged the need to speed up the **validation process**.
- Many stakeholders emphasised the need for **collaboration** between actors and sectors for the success of the roadmap.
- Stakeholders widely acknowledged the need for **both regulatory and non-regulatory actions**.

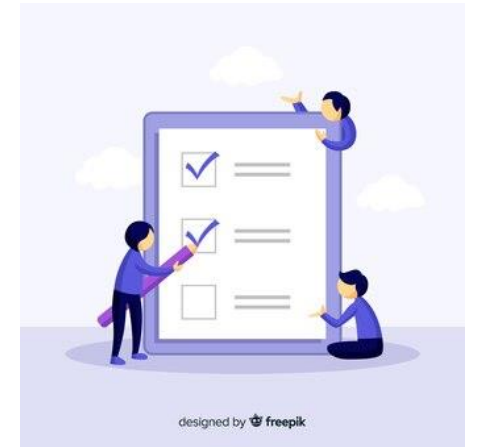
→ Report on call for evidence will be published and uploaded on CircaBC later once approved





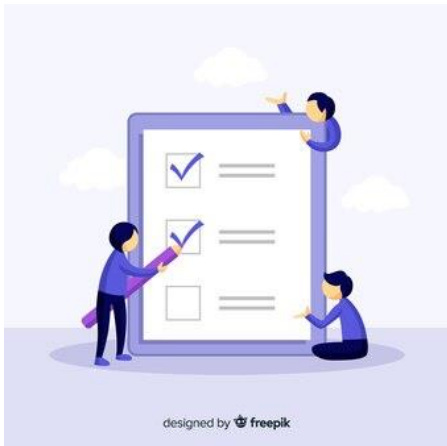
# Targeted Consultations - 1<sup>st</sup> survey

- **1<sup>st</sup> survey: Collecting input on topics relevant for development of roadmap**
  - General part
  - Options for animal-free test methods for human health and environmental safety assessment (3 baskets model)
  - Non-animal test methods under development
  - Option for Reduction/Refinement
  - Test method development and validation
  - Training needs
- Consultation of **MS authorities, EU agencies, businesses, non-governmental organisations and the scientific community** through **online survey**
- Survey from 29 November 2024 to 24 January 2025
- **193 responses are currently analysed by consultant**



# Targeted Consultations - 2<sup>nd</sup> survey

- 2<sup>nd</sup> survey: **Requesting feedback on draft action points, milestones... of the roadmap**
  - Main topic will be the draft roadmap (as far as developed)



- Consultation of MS authorities, EU agencies, businesses, non-governmental organisations and the scientific community
- Planned to be send out: **End of March/beginning of April**
- Open for ca. 6 weeks
- Likely to be followed up by targeted interviews

# Commission Workshops

## 3<sup>rd</sup> Com Workshop

- 16-17 June 2025, Helsinki
- Topic: Presentation of the draft roadmap
- Feedback from stakeholders on actions and milestones
- <https://echa.europa.eu/-/third-workshop-to-discuss-the-roadmap-to-phase-out-animal-testing-for-chemical-safety-assessments>

## 2<sup>nd</sup> Commission Workshop on 25 Oct. 2024

Report, pre-reads, presentations: [https://single-market-economy.ec.europa.eu/events/roadmap-phasing-out-animal-testing-chemical-safety-assessments-second-workshop-2024-10-25\\_en](https://single-market-economy.ec.europa.eu/events/roadmap-phasing-out-animal-testing-chemical-safety-assessments-second-workshop-2024-10-25_en)

## 1<sup>st</sup> Commission Workshop on 11/12 Dec. 2023



together with PARC (NGRA route)

Report, presentations and recordings: <https://op.europa.eu/en/publication-detail/-/publication/e350d987-3820-11ef-b441-01aa75ed71a1/language-en>

# Animal-Free Chemical Safety Assessment (AF-CSA) Conference



4-6<sup>th</sup> March 2025



Brussels



## Objectives/content:

- Specific focus on how long-term change – scientific vision of Next Generation Risk (NGRA) approaches
  - Human Health and Environmental Safety Assessment
  - Priorities for development of test methods/approaches
  - Validations strategies
- ➔ To recommend actions on short, medium, long-term roadmap goals



4 and 6<sup>th</sup>: discussion in plenary (hybrid format)



5<sup>th</sup>: breakout sessions (in person only)

# Thank you



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# Backup slides

# Chemical safety assessments under following legislation are in scope of the Roadmap

- 1) Chemicals registered under the REACH Regulation (ECHA)
- 2) Biocides (ECHA)
- 3) Pesticides (EFSA)
- 4) Food improvement agents (food additives, food enzymes and food flavourings) (EFSA)
- 5) Chemicals used in food contact materials (EFSA)
- 6) Feed additives (EFSA)
- 7) Human medicinal products (EMA)
- 8) Veterinary medicinal products and MRLs for active substances in veterinary medicinal products for food-producing animals (EMA)
- 9) Medical devices
- 10) Chemicals used in materials/products in contact with drinking water (ECHA)
- 11) Chemicals covered by the occupational safety directives CAD and CMRD (ECHA)
- 12) Chemicals used in human nutrition (EFSA)
- 13) Detergents
- 14) Classification, labelling and packaging of chemicals (ECHA)
- 15) Water and Waste legislation (identification of priority substances)