

EPAA collaboration in the development of the EU Roadmap Dr Gavin Maxwell, EPAA Industry Co-chair / Unilever FELASA, Athens, 1st-5th June 2025

European Partnership for Alternative Approaches to Animal Testing (EPAA)

Collaboration between European Commission and Industry stakeholders from 8 sectors (est. 2005)

Vision: The replacement, reduction and refinement (3Rs) of animal use for meeting regulatory requirements through better & more predictive science (e.g. New Approach Methodologies (NAMs)).

e-mail: <u>GROW-EPAA@ec.europa.eu</u>



39 Companies (including 1 SME)

symrise Sylohmon Govonesis L'ORÉAL ESTĒE LAUDER *I***HL/EIDO** ADAMA Beiersdorf D CHANEL CORTEVA COLGATE PALMOLIVE (Henkel) BAYER P&G Unilever Reckitt novo nordisk 🖖 NOVARTIS Benckiser sanofi zoetis SOLVAY D-BASF GSK syngenta REVLON SYENSQO strati(ell MANE **KANEBO**

9 Sectoral Associations



Mirror Group (Advisory body)

Emily McIvor (Chair), Tuula Heinonen, Christiane Hohensee, Helena Kandarova, Sirpa Pietikaïnen (MEP), Vera Rogiers, Emma Grange, Julia Baines, Winfried Neuhaus, Monique Janssens





for Alternative Approaches to Animal Testing

5 DG's of the EC

DG GROW DG ENV DG SANTE DG JRC DG RTD

Including Partner Agencies

European

Commission



Transitioning Europe to Animal-free, Sustainable Innovation

EU Parliament resolution

On 15th Sept 2021 the <u>EU</u> <u>Parliament resolution</u> adopted to 'Accelerate a Transition to Innovation without the use of Animals in Research, Regulatory Testing and Education' calling for an action plan with:

- ambitious objectives
- reduction targets
- replacement timelines



EU Commission

response

- EU Commission response to EP resolution stated that:
- 'ultimate goal of full replacement is enshrined in EU legislation'
- 'transition to innovation without the use of animals is
 best supported by focusing on & intensifying current efforts'
- transition accelerated via
 EU Replacement Roadmap

Foll	low-up to the European Parliament non-legislative resolution on plans and actions to clerate a transition to innovation without the use of animals in research, regulatory testing and education	
I.	Resolution tabled pursuant to Rules 132(2) and (4) of the European Parliament's Rules of procedure	
2.	Reference number: 2021/2784 (RSP) / RC9-0425/2021 / P9_TA-PROV(2021)0387	
3. Date of adoption of the resolution: 16 September 2021		
4.	Competent Parliamentary Committee: N.A.	
5.	Brief analysis/assessment of the resolution and requests made in it:	
The scies as so	resolution recalls the objectives of the Directive on the protection of animals used for ntific purposes (2010/63/EU) and notably the replacement of procedures on live animals one as it is scientifically possible. It asks that these objectives be observed in all sector- fic, necess, of levisiation, threat remuire netring (restriats A, and R). It stresses, the	



EPAA is helping accelerate the transition through:

- Bridging the research to regulatory use gap by identifying NAM-based frameworks that address regulatory needs
- 2. Building confidence in nonanimal approaches by facilitating scientific dialogue between industry safety assessors & regulators
- 3. Enabling transition to new global regulatory paradigm through the EU roadmap to phase out animal testing for chemical safety assessment



In 2025, EPAA focussed our activities to provide input to 'Roadmap towards phasing out animal testing for chemical safety assessment'

1. Bridging the research to regulatory use gap

- 2. Building confidence in non-animal approaches
- 3. Enabling transition to new global regulatory paradigm

European Commission Roadmap input			
NAMs for the assessment of endocrine disruption partners forum	Systemic toxicity NAM user forum	Animal-Free Chemical Safety Assessment Conference	
2 nd species in sub-chronic toxicity project	Skin Sensitisation user forum	NAM designathon challenge – systemic toxicity classification	
Carcinogenicity project	Acute toxicity project	Environmental safety	
New paradigm	Harmonisation of 3Rs in Biologicals		
Current paradigm		_epaa_	



Goals:

- To perform a strategic, cross-sector review of NAM-based frameworks for Chemical Safety Assessment in the European Regulatory Context
- To share learnings & identify:
 - Opportunities for scientific dialogue
 - Scientific gaps and research challenges
- To recommend short, medium & long-term actions for:
 - Commission Roadmap to Phase Out Animal Testing for Chemical Safety Assessment
 - EU Test Method & Validation Strategy



Animal-Free Chemical Safety Assessment concepts



-epace

'Safe spaces' for industry-regulator dialogue





Animal-Free Chemical Safety Assessment Conference 4-6 March 2025



Days 2-3: Breakout Groups & Feedback:

- 1. Human Health Paradigm Shift
- 2. Environmental Safety Paradigm Shift
- 3. Measuring Change so we can Manage it
- 4. Integration of Human Health & Environmental Safety
- 5. Use of NAMs for the assessment of Endocrine Disruption
- 6. Implementing a new paradigm for Carcinogenicity Assessment
- 7. ISTNET Developmental & Reproductive Toxicology (DART) Testing Roadmap

In partnership with

- 8. Recommendations for phasing out second species sub-chronic toxicity testing
- 9. Towards Animal-Free Acute Toxicity Assessment



	Short-term actions NAMs that can be immediately adopted into regulatory practice	Medium-term actions NAMs requiring validation or regulatory adaptation	Long-term actions Strategic efforts to redefine safety assessment paradigms for NAMs
Human Health Safety Assessment Paradigm Shift	 Expand use of existing replacement methods (QSARs, read-across, exposure-based waiving) Initiate pilot projects for regulatory applications of systemic toxicity toolboxes & SMART in vivo studies. Establish reference dataset for benchmarking NAM-based safety assessments. 	 Implement cross-sector regulatory use of NAM-based systemic toxicity toolboxes. Develop higher-tier testing strategies for complex endpoints such as DART & ED effects Use bottom-up & top-down evaluation approaches to assess effectiveness of NAM approaches. 	 Fully integrate NAM-based assessments into regulatory frameworks. Establish robust higher-tier testing approaches to replace remaining in vivo studies. Ensure cross-sector harmonisation of risk assessment methodologies.
Environmental Safety Assessment Paradigm Shift	 Establish a cross-sector network to continue discussions and refine the new paradigm. Conduct case studies using existing data to assess gaps in current frameworks. Identify key partners & funding sources 	 Define the ultimate goal of environmental safety assessments within the context of chemical use Conduct gap analyses to map existing frameworks, exposure pathways, and mixture effects. Develop a centralised data platform to consolidate hazard and monitoring data. Advance in silico models Refine testing thresholds Connect mechanistic data with population-level effects. Adjust regulatory processes to facilitate the faster adoption of NAMs. 	 Fully transition to an animal-free environmental safety paradigm. Explore the concept of environmental digital twins to provide real-time predictive capabilities. Implement probabilistic & landscape assessments to better handle uncertainty. Establish toxicokinetic models tailored for invertebrates, ensuring a broader range of species are covered in risk assessments.

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Integration of Human Health and Environmental Safety Assessment	 Remove disciplinary silos Identify stakeholder networks Establish common terminology Introduce integrated toxicology training programmes Assess readiness of regulatory systems to accept mechanic data and identify key changes to support this transition 	 Generate evidence to build confidence in mechanistic approaches (e.g. case studies) Identify common toxicokinetic & toxicodynamic data streams conserved across species Develop HH-Env testing strategies Prioritise mechanisms & species that require protection Advance PBK models for vertebrates and invertebrates Target research to address knowledge gaps & build mechanistic understanding 	 Implement data-sharing platforms to integrate (eco)toxicology datasets Develop tiered, integrated regulatory frameworks that acknowledge the mechanistic commonalities between human and environmental health Embrace the 'One Safety' concept Promote a unified risk assessment approach that addresses the combined impacts of chemicals on humans, wildlife, and ecosystems
Use of NAMs for the Assessment of Endocrine Disruption	 Develop tiered NAM strategies for oestrogen & androgen modalities Define testing limits & establish benchmark chemical lists Create NAM-use case studies & multi-stakeholder forum for scientific dialogue (e.g. pesticides, biocides) 	 Develop tiered NAM strategies for thyroid and non-EATS modalities Evaluate tiered NAM strategies using benchmark chemicals (addressing MoA & adversity) Address metabolic competence of in vitro systems to build confidence Identify hub-KE NAMs that measure conserved key events to enable consolidation of test batteries Target research to close methodological gaps 	 Review performance & efficiency of tiered NAM strategies Integrate hub-KE NAMs into standardised human health and environmental safety assessment frameworks

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	Short-term actions (0-5yrs) NAMs that can be immediately adopted into regulatory practice	Medium-term actions (5-10yrs) NAMs requiring validation or regulatory adaptation	Long-term actions (10+ yrs) Strategic efforts to redefine safety assessment paradigms for NAMs
PARADIGM SHIFT Implementation of a New Paradigm for Carcinogenicity Assessment	 Scope cross-sector Weight of Evidence (WoE) approach Define & validate set of NAMs designed to screen for chemically- induced perturbation of biological pathways related to cancer Develop &/or refine NAMs targeting later key events in carcinogenesis Use a WoE approach to integrate NAM data with sub-chronic repeated-dose toxicity (RDT) study data Use sector case studies to assess applicability Remove mouse cancer bloassay as a standard regulatory requirement 	 Add NAM-based WoE approach to regulatory frameworks & update regulatory guidance docs to support widespread adoption Concurrently, refine (internal) TTC approach to build confidence Adapt regulatory processes to permit assessments based explicitly on mechanistic understanding Update classification & labelling criteria to explicitly incorporate NAM-based approaches 	 Fully implement NAM-based WoE approach, eliminate the regulatory reliance on animal-derived data altogether Conduct extensive validation case studies on a large scale will be conducted across diverse regulatory contexts Comprehensive training programmes in non-animal approaches for carcinogenicity assessment
ROADMAP ACTIONS	 Obtain regulatory buy-in from EU Commission & other authorities. Develop communication roadmap targeting different stakeholders Identify and secure funding for NAM validation, case studies, and industry readiness. Establish safe spaces for pre- submission consultations, where industry and regulators can discuss NAM data before formal submission 	 Adapt regulatory frameworks to allow NAM-based carcinogenicity assessments Revise CLP/GHS criteria to align with NAMs Secure funding for the development of missing NAMs and for translational activities 	 Fully implement the NAM-based WoE approach across all regulatory sectors. Implementation of the revised CLP/GHS criteria Implement education and training programmes for industry, regulators, and scientists on new assessment methodologies

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ISTNET Developmental and Reproductive Toxicology (DART) Testing Roadmap	 Publish the ISTNET-DART roadmap Define funding strategy for research, validation, & regulatory acceptance of NAM-based DART methods Establish a benchmark chemical list for validating NAMs Validation studies for existing NAMs to use with guideline DART studies Case studies to demonstrate practical regulatory applicability 	 NAM development & qualification to refine DART applicability domains Further development of AOPs & DART case studies 	Complete replacement of traditional DART assessments with fully mammalian-free methodologies
Roadmap towards phasing out the non- rodent species for (sub-) chronic toxicity testing	 Develop a framework & criteria to prospectively determine when the dog study can be waived drawing on EFSA & US EPA agrochemical projects Consider integration of non-animal approaches, e.g. uncertainty factors 	 Further refine of study design using NAMs & virtual control groups Use historical data to replace or reduce the number of concomitant control animals Develop standard in vitro assays to support comparative toxicokinetic and/or toxicodynamic studies 	Develop computational models to ultimately phase out animal studies
Towards animal- free acute toxicity assessment	 Amend regulatory frameworks to establish computational models as defaults for acute oral toxicity Assess performance of computational tools like CATMoS Compile & analyse reference datasets for acute dermal and inhalation toxicities 	Use ADME studies & PBK modelling to define scenarios where acute systemic toxicity studies could be waived (e.g. chemicals lacking systemic bioavailability)	Leverage advances in non-animal human safety assessments to further refine acute toxicity testing



Next Steps

- 60 page, AF-CSA Conference Report will be used as the basis for a scientific manuscript for publication
- 5th June 2025, EPAA Steering Committee meeting
 - AF-CSA Conference report used as basis for draft EPAA 2026-2030 Action Plan
- 9th Sept 2025, EPAA EU Parliament Lunch Debate (tbc)
 - MEP feedback on draft EPAA 2026-2030 Action Programme
- 5th-6th Nov 2025, EPAA 20th Anniversary event & Annual Conference
 - Review of EPAA's progress over the last 20 years and stakeholder feedback on how EPAA can best support regulatory use of 3Rs going forward.



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EPAA website: <u>https://ec.europa.eu/growth/sectors/chemicals/epaa_en</u> E-mail: <u>GROW-EPAA@ec.europa.eu</u>

