

Policy Brief

SOCIO-TECHNICAL BARRIERS TO THE UPTAKE OF NAMS

Barriers to the uptake of NAMs are not merely technical (the structures of, and the processes within, the system), but social (behaviours of actors in the system). Findings highlight the presence of these barriers at various levels and across the chemical landscape as well as the interconnectedness between different socio-technical barriers. Over the past decade, considerable progress has been made in developing new approach methodologies (NAMs). Nonetheless, the use of animal testing persists in chemical safety assessments. The research of PrecisionTox Working Group 6 (Regulatory Analysis & Application) explores the barriers, as perceived by stakeholders, that inhibit the take-up of NAMs. The results were informed by an empirical study that generated qualitative data from semi-structured interviews. This involved individual and small group interviews across 32 stakeholders, including industry representatives, regulators, and policy makers from the EU and other jurisdictions.

Major Identified Barriers to the Uptake of NAMs

Theme	Sub-theme
Views of regulatory science and the legislative framework	 Regulatory culture: Acceptance Familiarity and confidence in animal studies Lack of trust between actors
Validation and standardisation	Time to achieve consensusHuman relevance
Expertise and resources	 Pressure on regulatory capacity Unfamiliarity/lack of experience with NAMs
Regulatory objectives	 Jurisdiction Principles of exposure versus hazard that underpin the legal framework on industrial chemicals
Social perceptions	Public unaware of NAMsFears of diluting chemical safety
Scientific development	 Comprehensive NAMs for complex endpoints Mechanisms rather than apical outcomes

Recommendations based on these findings will be explored in a forthcoming report of the PrecisionTox consortium scheduled to be published January 2025

Full Report

For the full report, please see the PrecisionTox website

https://precisiontox.org/read-the-report-on-sociotechnical-barriers-to-the-uptake-of-nams-here/

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