

Rationale

Pesticide regulation is evolving rapidly as advances in science, digital technologies and biological solutions create new opportunities for safer and more efficient regulatory systems. Yet differences among jurisdictions still lead to duplication of assessments, data requirements and regulatory efforts.

Building on decades of work by OECD, FAO and WHO, the Global Pesticide Summit 2027 will explore how shared science, regulatory reliance, equivalence, work-sharing and interoperable data can improve efficiency without lowering health or environmental protection standards.

Hosted in Brazil as the country implements its new pesticide regulatory framework, the Summit will provide a timely platform for leading regulators and scientists to identify practical areas for international cooperation.

Different Laws. Shared Science. Better Regulation.

Day 1 — From Different Regulatory Systems to Shared Scientific Principles

The first day will focus on the **architecture of pesticide regulation worldwide**. Leading authorities from Brazil, the United States, European Union, Australia, New Zealand, China and international organizations will compare regulatory approaches and identify areas where greater scientific convergence and cooperation are possible without requiring identical national legislation.

Brazil will have a prominent role in this discussion. **ANVISA, MAPA and IBAMA** will present the implementation of Brazil's new pesticide regulatory framework and emerging approaches to regulatory efficiency, including **equivalence, analogue-based assessment, regulatory reliance, optimized review, digitalization through SISPA, and environmental risk assessment adapted to Brazilian conditions**.

The afternoon will move from comparison to cooperation, exploring **work-sharing, joint reviews, reliance and reuse of regulatory evidence**, followed by a discussion on digital dossiers, interoperable data standards and artificial intelligence.

Time	Session	Focus	Proposed Speakers / Institutions
08:30–09:30	Opening High-Level Session — Why the World Needs a Renewed Pesticide Regulatory Dialogue	Setting a shared agenda for modern, science-based and internationally connected pesticide regulation.	Brazil (MAPA, ANVISA, IBAMA) • US EPA • OECD • FAO/WHO

09:30–11:00	Session 1 — The State of Global Pesticide Regulation: What Is Actually Different?	Comparing regulatory models, scientific principles and outcomes across major jurisdictions. Where can science converge while regulatory systems remain different?	ANVISA • US EPA • EFSA • APVMA • ICAMA
11:00–11:15	Coffee Break		
11:15–12:45	Session 2 — Brazil's Regulatory Transformation: From Sequential Review to Smart Regulation	Brazil's new pesticide regulatory framework, regulatory equivalence, analogue-based assessment, optimized review, SISPA and environmental risk assessment under Brazilian conditions.	ANVISA • MAPA • IBAMA
12:45–14:00	Lunch		
14:00–15:30	Session 3 — Regulatory Reliance, Equivalence and Work-Sharing	What evidence really needs to be generated again, and what evidence can regulators legitimately reuse? Experiences with equivalence, read-across, bridging, reliance, joint reviews and mutual recognition.	ANVISA • US EPA • APVMA • New Zealand EPA/MPI • EFSA
15:30–15:45	Coffee Break		
15:45–17:15	Session 4 — Digital Regulatory Systems, Data Standards and Artificial Intelligence	Moving towards interoperable regulatory dossiers, structured data, digital submissions and responsible use of AI in regulatory science.	MAPA/SISPA • US EPA • EFSA • ECHA • APVMA
17:15–17:45	Day 1 Wrap-Up — Different Laws. Shared Science. Better Regulation.	Key messages and priorities to be carried into Day 2.	Session Chairs & Scientific Committee

Day 2 — From Pesticide Approval to Pesticide Performance

The second day will shift the discussion from **how pesticides are approved to how regulatory systems measure their actual performance.**

Sessions will examine the evolution from hazard identification toward integrated assessments incorporating **risk, exposure, environmental fate and real-world outcomes.** Particular attention will be given to post-registration monitoring, re-evaluation, residues, environmental monitoring, compliance and pesticide risk indicators.

The afternoon will look forward. Regulators, scientists and innovators will discuss appropriate regulatory pathways for **biopesticides, biological control, RNAi, semiochemicals, precision application, digital tools and other emerging technologies,** based on the principle that regulatory innovation should increase efficiency **without lowering scientific or health and environmental protection standards.**

A structured public-private dialogue will then examine the costs and consequences of regulatory fragmentation, distinguishing necessary scientific requirements from avoidable duplication.

Time	Session	Focus	Proposed Speakers / Institutions
09:00–10:30	Session 5 — From Hazard to Risk to Real-World Outcomes	Integrating hazard, exposure, environmental fate and real-world evidence to strengthen regulatory decision-making.	ANVISA • IBAMA • US EPA • EFSA • ECHA • Scientific Community
10:30–10:45	Coffee Break		
10:45–12:15	Session 6 — Post-Registration Regulation: Are We Measuring What Matters?	Re-evaluation, residues, environmental monitoring, incidents, compliance and pesticide risk indicators. Moving beyond kilograms sold towards measurable risk reduction.	OECD • FAO/WHO • ANVISA • IBAMA • US EPA • EFSA
12:15–13:30	Lunch		

13:30–15:00	Session 7 — Innovation Without Lowering the Scientific Standard	Regulatory pathways for biopesticides, biological control, RNAi, semiochemicals, precision application, digital labels and emerging technologies.	ANVISA • MAPA • US EPA • APVMA • IBMA • CropLife International
15:00–15:15	Coffee Break		
15:15–16:30	Session 8 — Public–Private Dialogue: How Much Does Regulatory Fragmentation Cost?	Identifying unnecessary duplication while preserving health and environmental protection. Less duplication, not less protection.	Regulators • CropLife International • IBMA • Producer Organisations • Scientific Community
16:30–17:30	Closing Regulatory Roundtable — Brasília Principles for Global Pesticide Regulatory Cooperation	Building common principles around science-based regulation, regulatory reliance, interoperable data, post-market evidence and innovation.	Heads of Regulatory Authorities • OECD • FAO/WHO
17:30	Closing of the Global Pesticide Summit 2027	Presentation of the proposed Brasília Principles and next steps for international regulatory cooperation.	Brazil & International Partners