



**SUOMI
FINLAND**

EU-CELAC “AI IN SCIENCE” WORKING GROUP

Why “AI in Science” in the EU–CELAC Context

AI in Science as a strategic enabler of:

- Scientific discovery and research excellence
- Addressing global challenges (health, climate, sustainability)
- Technological autonomy and shared digital sovereignty

EU–CELAC cooperation adds value by:

- Combining complementary strengths and infrastructures
- Building on shared values: ethical, human-centric AI
- Avoiding duplication by leveraging existing initiatives

Role and Ambition of the AI in Science WG

What the Working Group is here to do:

- Translate high-level policy into **operational cooperation**
- Align EU and CELAC approaches where it matters most
- Produce **tangible outputs** within an 18-month action plan

Key challenges the WG must address:

- Balance common approaches with disciplinary flexibility
- Ensure coherence with other EU–CELAC WGs
- Mobilise the full ecosystem, including the private sector

The four objectives driving the WG

Objective 1: Objective 1: Trustworthy, human-centric, ethical AI in science	Objective 2: Common approaches to data analysis and AI frameworks across disciplines	Objective 3: Access to AI research infrastructures and researcher mobility	Objective 4: A clear and operational EU–CELAC partnership on AI in Science
<p>Main focus: Costa Rica, Netherlands, Poland, Uruguay</p> <p>Secondary focus: Finland, Guatemala, Mexico, Slovenia</p>	<p>Costa Rica, Finland, Guatemala, Mexico, Netherlands, Slovenia, Uruguay, Spain, France, Hungary</p>	<p>Maind focus: Bulgaria, Ecuador, Guatemala, Mexico, Slovenia, Trinidad and Tobago, Uruguay</p> <p>Secondary focus: Brazil, Costa Rica, Finland, Netherlands, Poland</p>	<p>Main focus: Costa Rica, Ecuador, Finland</p> <p>Secondary focus: France, Guatemala, Mexico, Poland, Trinidad and Tobago, Uruguay</p>
<p>Co-Lead: Jamaica</p>	<p>Co-Lead: (?)</p>	<p>Co-Lead: Mexico</p>	<p>Co-Lead: Finland</p>

Objective 1: Ethical and Responsible AI in Science

Goal: To establish a shared EU–CELAC approach to trustworthy, human-centric AI use in scientific research, and support uptake by research communities.

Why this matters:

- Rapid AI uptake is already affecting:
 - Literature review
 - Data analysis
 - Proposal evaluation and peer review
- Risks of bias, opacity, and unequal access are real and immediate

Objective 1: Key Actions and Activities

Action 1.1 – Mapping existing ethical AI frameworks

- Survey EU and CELAC guidelines and policies
- Identify shared principles and critical gaps

Action 1.2 – Developing a practical User Guide

- Concise, applied guidance for:
 - Researchers
 - Research organisations
 - Funding bodies
- Based on EU Living Guidelines, JRC reports, UNESCO ethics

Action 1.3 – Capacity-building and pilot twinning

- Training workshops via RedCLARA, EOSC, CNRS
- Small-scale researcher–AI engineer twinning pilots

Objective 2: Data and AI Frameworks Across Disciplines

Goal (current formulation): To develop a common approach to data analysis and AI frameworks for AI in Science, applicable across selected scientific disciplines.

Current status:

- Conceptually and pragmatically important
- Less developed than Objectives 1, 3, and 4

Objective 2: Initial Direction for Discussion

Emerging idea: a thematic focus on health data

- High scientific and societal impact
- Strong AI uptake already underway
- Clear relevance across EU and CELAC
- Brings together data, compute, ethics, and regulation

Key dimensions to consider:

- Data availability, quality, and interoperability
- Governance, rights, and cross-border sharing
- Pre-processing and “AI-ready” data
- Links to ECLAC, CENIA, and existing health data initiatives

What should Objective 2 *not* miss if it is to be useful for researchers?

Objective 3: Infrastructure Access and Researcher Mobility

Goal: To improve access to AI-relevant research infrastructures and support mobility of researchers and engineers across EU and CELAC

Core rationale:

AI in science requires:

- HPC and AI factories
- High-quality data and connectivity
- Skilled people who can move across systems

Objective 3: Key Actions and Activities

Infrastructure and interoperability:

- Mapping AI and HPC capacities across regions
- EU–CELAC Infrastructure Dashboard
- Bi-regional “sandbox” for interoperability testing

Pilots and validation:

- Real AI-in-science pilot projects
- Testing legal, technical, and operational frameworks

Mobility:

- Mapping mobility schemes and funding instruments
- Researcher mobility pilots via voluntary coalitions
- Alignment with MSCA and national programmes

Objective 4: Building the EU–CELAC Partnership

Goal: To define a clear, credible EU–CELAC partnership on AI in Science, mobilising public and private actors.

Why this matters:

- Sustainability beyond public funding alone
- Scaling impact and innovation pathways
- Aligning with EU–LAC Digital Alliance and bilateral partnerships

Objective 4: Key Actions and Activities

Phase 1 – Mapping and engagement

- Survey and map private foundations, industry, applied research actors

Phase 2 – Strategic Research Agenda

- Identify where co-funding adds most value
- Focus on mobility, infrastructures, open science, innovation

Phase 3 – Partnership design

- Define roles, governance, engagement models
- Secure indicative commitments

Phase 4 – Policy alignment

- Ensure coherence with EU and CELAC strategies

Bringing it all together

What the Action Plans aim to deliver:

- Practical guidance for researchers
- Shared access to infrastructures and data
- Real mobility and collaboration
- A credible, implementable partnership model

What we need from the Finnish scientific community:

- Feedback on key actions and activities
- Willingness to engage in consultations, pilots and voluntary coalitions

Thank you.

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