Preparing National Research Ecosystems for Al Workshop

organized in partnership with ILDA

Santiago de Chile, 11 April 2024



CENTRE FOR S C I E N C E F U T U R E S





ABOUT THE CENTRE AND ITS ACTIVITIES

An ISC in-house think tank to explore where science and its organization are taking us in the future

Launched in May 2023

The Centre serves the ISC, its members, and the global scientific community by:

Carrying out analytical work, and compiling resources
Shaping necessary discussions on the future of science
Providing options and tools for appropriate action

Supported by International Development Research Centre (IDRC)







Advisory Council



Jinghai Li

President, National Natural Science Foundation of China (NSFC)



Sarah de Rijcke

Director, Centre for Science and Technology Studies Leiden University, NL



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CEO, American Association for the Advancement of Science (AAAS), US



Christina Zhang

CEO and Founder, The Metaverse Institute, UK



Maria Espinosa

Former President of the United Nations General Assembly, Ecuador



Derrick Swartz

Special Advisor, Minister of Higher Education, Science and Innovation, South Africa

PROJECTS

Outputs

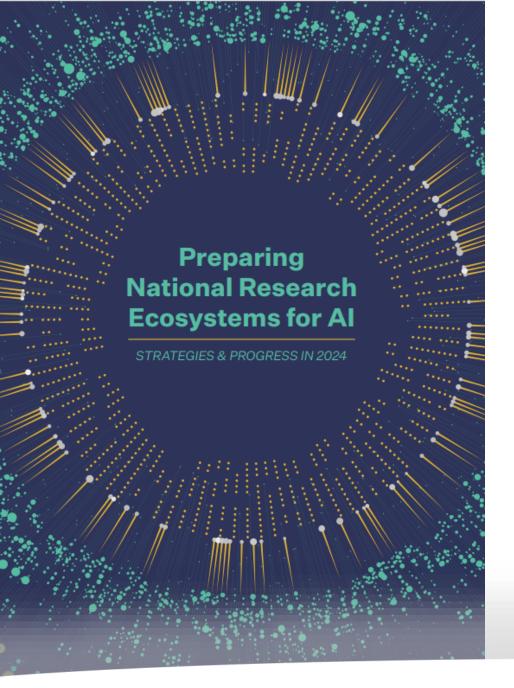
- Looking at the Future of Transdisciplinary Research April 2023
- The Future of Research Evaluation *May 2023*
- The Contextualisation Deficit Reframing trust in science for multilateral policy October 2023
- Science Fiction and the Future of Science (podcast series) *November/December 2023*
- Protecting Science in Times of Crisis How do we stop being reactive, and become proactive? – February 2024
- Preparing National Science Ecosystems for AI March 2024
- Policy brief From Trust to Trustworthiness: What does the multilateral system need to know about trust in science? – (*upcoming*)

Upcoming:

- More work on AI and science systems (IDRC)
- Pilot mentorship programme for refugee and displaced scientists (IIE-SRF)







PREPARING NATIONAL RESEARCH ECOSYSTEMS FOR AI

Goals of the project

- Help shape a discussion among the international scientific and policy communities on the critical issues that AI raises for the organization of science and research
- Gather basic knowledge and information about the issues, and the countries' efforts to prepare science and research systems for AI (literature review and country case studies)
- Help countries as they develop roadmaps for the uptake of AI in their science systems
- Create regional and global networks of people involved in the reflections on adaptation and implementation of AI for science

CENTRE FOR SCIENCE FUTURES





ACADEMIC LITERATURE HIGHLIGHTS 45 CRITICAL ISSUES

THEME 1: R&D agenda setting, technology assessment, foresight and science advice

- > FUNDING PRACTICES
- > CAPACITY BUILDING AND RETENTION
- **> PRIORITY SECTORS**
- > INFRASTRUCTURE

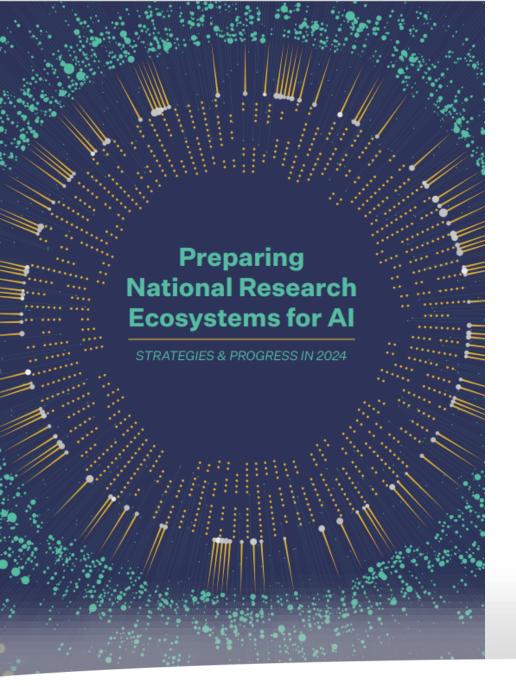
THEME 2: Public engagement, science communication and public accountability

- SCIENTIFIC INTEGRITY IN THE CONDUCT OF RESEARCH
- > ENVIRONMENTAL IMPACT
- > SCIENTIFIC PUBLISHING

THEME 3: Regulation, standards, private sector governance and self-regulation

- > DATA QUALITY
- > DATA MANAGEMENT AND GOVERNANCE
- > DATA STANDARDS
- > LAW, REGULATION AND POLICY





FIRST-HAND UNDERSTANDING OF COUNTRIES' EFFORTS

Countries included in v1:

-Australia, Benin, Brazil, Cambodia, Chile, China, India, Malaysia, Mexico, Oman, Uruguay, Uzbekistan

Countries to be included in v2:

-Canada, France, Jordan, Malawi, Morocco, Nigeria, Norway, Panama, Romania, Rwanda, South Africa, United Arab Emirates, United Kingdom, United States...

CENTRE FOR SCIENCE FUTURES



WORKSHOP IN SANTIAGO DE CHILE

- Awareness and recognition of the importance to work to integrate AI in national research ecosystems
- Countries are at different levels of implementation (from observation to being to being at the forefront of developments)
- Very compatible assessments of the opportunities, as well as of the efforts and resources required for AI to work for science in the region
- There a space for coordinated actions, as well as collaborations in integrating AI in the LAC science systems.





THANK YOU

We look forward to the next steps. For any questions, email me at csf@council.science



linkedin.com/showcase/science-futures

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