



Preparing National Research Ecosystems for AI Workshop

organized in partnership
with ILDA

Santiago de Chile, 11 April 2024

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



Sudip Parikh

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



Preparing National Research Ecosystems for AI

STRATEGIES & PROGRESS IN 2024

ACADEMIC LITERATURE HIGHLIGHTS 45 CRITICAL ISSUES

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

THEME 2: Public engagement, science communication and public accountability

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

› **FUNDING PRACTICES**

› **CAPACITY BUILDING AND RETENTION**

› **PRIORITY SECTORS**

› **INFRASTRUCTURE**

› **SCIENTIFIC INTEGRITY IN THE CONDUCT OF RESEARCH**

› **ENVIRONMENTAL IMPACT**

› **SCIENTIFIC PUBLISHING**

› **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...

**Preparing
National Research
Ecosystems for AI**

STRATEGIES & PROGRESS IN 2024

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](https://www.linkedin.com/showcase/science-futures)

 [@ScienceFutures_](https://twitter.com/ScienceFutures_)

 [InternationalScienceCouncil](https://www.youtube.com/InternationalScienceCouncil)