



**International
Science Council**



International Science Council at INGSA

30 April - 3 May 2024 • Kigali, Rwanda

Message from the CEO

The International Science Council (ISC) is delighted to be at the 2024 INGSA conference in Kigali, an essential gathering that underscores the critical role of science advice in shaping informed policies for our global society.

The International Science Council, an organization dedicated to acting as the global voice for science is honoured to have INGSA as an Affiliated Body to the Council. Through the ISC's 250 members, we believe in the power of science as a global public good, where scientific knowledge, data, and expertise are universally accessible and shared.

As we begin the INGSA conference, we face unprecedented challenges that demand coordinated global action, from climate change and biodiversity loss to health emergencies like the COVID-19 pandemic. These challenges highlight the urgent need for robust science advice mechanisms that can support decision-making at all levels—from local to national to regional and even global. The ISC's mission is to strengthen these mechanisms by fostering international, interdisciplinary collaborations and promoting science diplomacy to address global issues.

Our role at this conference is to reaffirm the importance of evidence-informed understanding and decision-making, and to explore how science advice can be more effectively integrated into policy making. Through stimulating dialogue and sharing best practices, we aim to support INGSA and its members to enhance the capacity of science advisory systems worldwide, ensuring that they are robust, inclusive, and responsive to the needs of today's society.

Let us use this opportunity to strengthen our networks, share our knowledge, and commit to advancing the science-policy interface to meet the challenges of today and tomorrow. Together, we can ensure that science continues to serve as a foundation for building a more sustainable, resilient, and equitable world.



Salvatore Aricò

CEO

International Science Council

Engage with the ISC delegates at INGSA 2024

DAY 1

Science Granting Councils and Innovation Agencies as Advocates for Strong National STI Systems

Salvatore Aricò, ISC CEO

Wednesday, May 1, 2024, 11:30 AM 1:00 PM Kigali Convention Center | MH3

Towards a Global Definition of Excellence in Research

Maria Esteli Jarquin, ISC Fellow member of the ISC Outreach and Engagement Committee

Wednesday, May 1, 2024, 11:30 AM 1:00 PM Kigali Convention Center | MH4

Connecting Science Diplomacy Agendas in a Fragmented World

Motoko Kotani, ISC Fellow and Vice President for Science and Society as speaker

Wednesday, May 1, 2024, 2:15 PM 3:45 PM Kigali Convention Center | MH 1 & 2

Unleashing the transformative potential of African science advice: Towards an Africa Science Leaders Forum

Ahmed Bawa: Professor, Johannesburg Business School, University of Johannesburg – South Africa

Sameh Soror: INGSA-Africa Steering Committee Member & Helwan University – Egypt

Chomora Mikeka: Director of Science, Technology and Innovation, Ministry of Education – Malawi

Lise Korsten, President, African Academy of Science – South Africa

Wednesday, May 1, 2024, 2:15 PM 3:45 PM Kigali Convention Center | AD 10

Plenary Panel - The Transformation Imperative: Science and Shaping the Transformations We Want to See

Macharia Kamau, Member of the ISC Global Commission on Science Missions for Sustainability

and Terrence Forrester, Chair of the ISC Fellowship Council as speakers

Wednesday, May 1, 2024, 4:15 PM 5:45 PM Kigali Convention Center | MH1 & 2

DAY 2

High-Level Plenary & Panel

Connie Nshemereirwe, ISC Fellow as speaker

Thursday, May 2, 2024, 8:30 AM 10:45 AM Kigali Convention Centre | MH1 & MH2

Skills for Transformation - Training the Next Generation of Experts at the Interfaces

Petra Lundgren, Director of the ISC Regional Focal Point for Asia and the Pacific as speaker

Thursday, May 2, 2024, 11:15 AM 12:45 PM Kigali Convention Centre | MH4

Science Advice in the Multilateral System - Emerging Challenges and Innovative Solutions

Session organized by the ISC and chaired by Motoko Kotani, with closing remarks by Peter Gluckman, ISC President

Thursday, May 2, 2024, 11:15 AM 12:45 PM Kigali Convention Centre | AD10

Anticipatory Science Diplomacy and Disruptive Technology - Towards Renewed Multilateralism

Anne-Sophie Stevance, ISC Senior Science Officer as speaker

Thursday, May 2, 2024, 2:00 PM 3:30 PM Kigali Convention Centre | AD10

Disruptive Technologies: Impact and Leadership from Africa

Kevin Govender, Director, International Astronomical Union (IAU, ISC Member Organization) Office of Astronomy for Development as speaker

Thursday, May 2, 2024, 2:00 PM 3:30 PM Kigali Convention Centre | MH3

High-Level Address and Closing Plenary

Lise Korsten, President, African Academy of Science (AAS, ISC Member Organization) as speaker

Thursday, May 2, 2024, 4:00 PM 6:00 PM Kigali Convention Centre | MH 1 & 2



**International
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In this ISC Guide

You'll find a vast array of useful reports and products aimed at helping policy-makers and science advisors promote scientific evidence and brokerage during critical discussions for our times.

Get in touch

Get the latest ISC news to your inbox via our dedicated newsletters.

<https://council.science/newsletter/>



Sign up for ISC newsletters, regional newsletters and programme specific newsletters such as disaster risk reduction and the ISC in global policy processes in the multilateral space, such as the HLPF and the UN.

The ISC and INGSA

As a legacy of the first global conference in 2014 on science advice to governments co-organized by our predecessor organization, the International Council for Science (ICSU) in Auckland, New Zealand, the International Network for Government Science Advice (INGSA) was formed. The ISC acts as a trustee of INGSA funds and provides validation of its strategy and governance arrangements. The ISC also contributes to the development and approves strategy and activity plans, as well as associated budgets.

<https://council.science/member/international-network-for-government-science-advice-ingsa/>

Unlocking the Future: A Guide for Policy-makers: Evaluating Rapidly Developing Technologies Including AI, Large Language Models and Beyond

The ISC's guide offers a comprehensive framework designed to bridge the gap between high-level principles and practical, actionable policy. It responds to the urgent need for a common understanding of both the opportunities and risks presented by emerging technologies.

Read online in the language of your choice:

<https://council.science/publications/policy-makers-guide-framework-digital-technologies/>

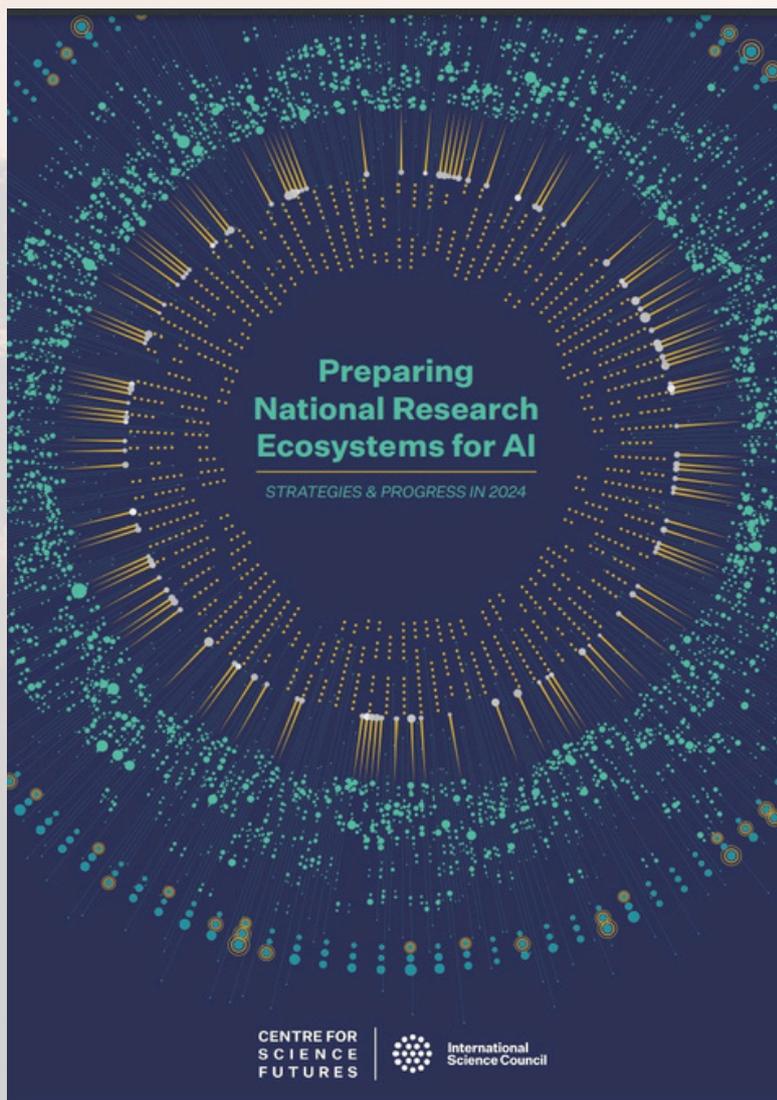


Preparing National Research Ecosystems for AI: Strategies and progress in 2024

The report from the ISC's Centre for Science Futures offers a comprehensive analysis of the integration of artificial intelligence in science and research across various countries. It addresses both the advancements made and the challenges faced in this field, making it a valuable read for science leaders, policy-makers, AI professionals, and academics.

Read online in the language of your choice and engage with us to be part of the next edition.

<https://council.science/publications/ai-science-systems/>

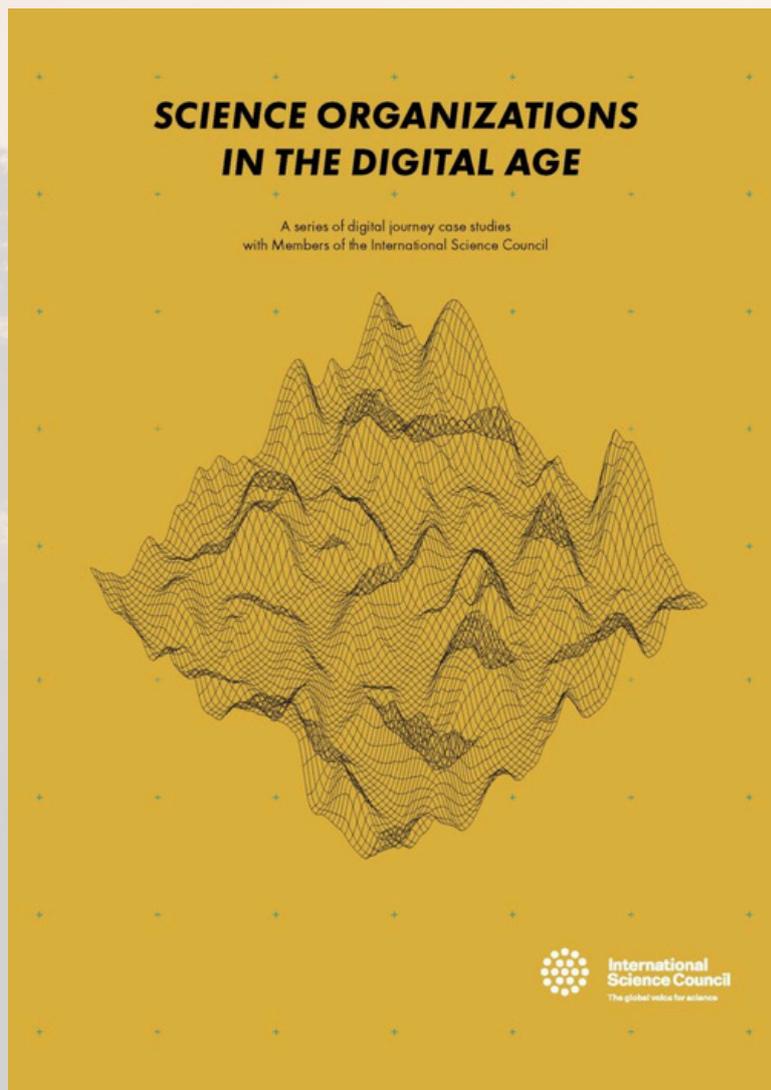


Science organizations in the digital age

The discussion paper synthesizes findings from a broad survey, detailed interviews, and case studies involving ISC Members. It serves as both a current reflection of the digital status in the science community and a guide for organizations embarking on their digital transition journeys.

Read online in the language of your choice.

<https://council.science/publications/science-organizations-in-the-digital-age/>



Global Call on Science Missions for Sustainability

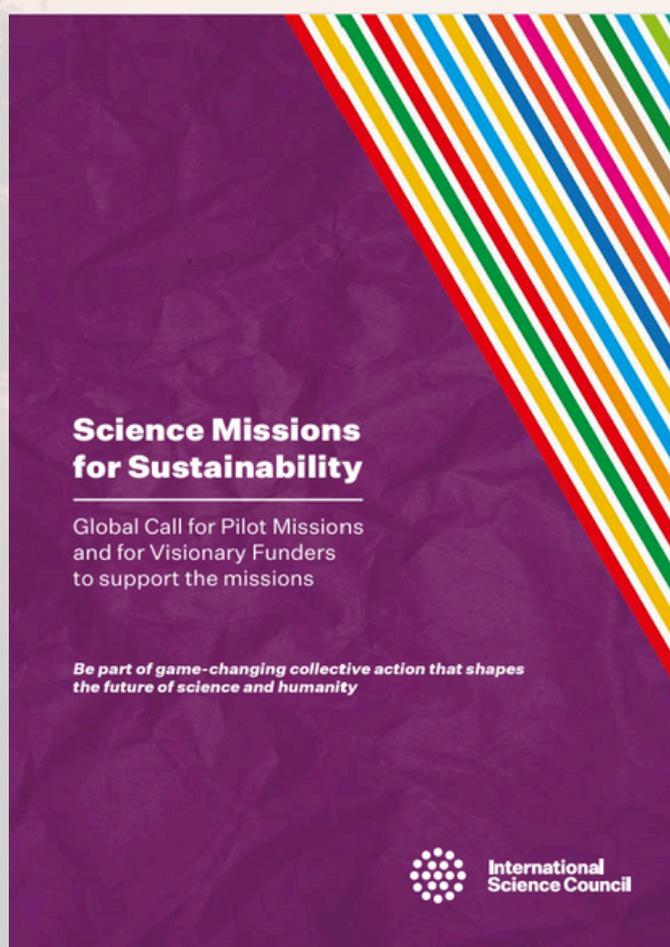
Be part of the game-changing collective action that shapes the future of science and humanity. We're seeking novel, innovative, collaborative, and diverse consortia to co-design and embark on groundbreaking Science Missions to tackle complex sustainability challenges head-on.

This Global Call aims to select up to five Pilot Missions to test the proposed model, thoroughly examining their execution, outcomes, and impact. Successful Pilots will set the stage for adapting and expanding the model.

The selected Pilots will demonstrate the value of truly collaborative transdisciplinary efforts in helping fast-track the achievement of the SDGs and accelerating societal transformation to sustainability.

Available in English, French and Spanish:

<https://council.science/current/news/call-science-missions-sustainability/>



Protecting science in times of crisis

This comprehensive paper by the the ISC's think tank, the Centre for Science Futures, addresses the urgent need for a new approach to safeguard science and its practitioners during global crises. With many conflicts spread over vast geographical zones; increasing extreme weather events due to climate change; and natural hazards such as earthquakes in unprepared regions, this new report takes stock of what we have learned in recent years from our collective efforts to protect scientists and scientific institutions during times of crisis.

The summary and video in the language of your choice are online.

<https://council.science/publications/protecting-science-in-times-of-crisis/>



Policy Brief: Plastic Treaty must prioritize health

Key Requirements for a Science-based International Legally Binding Instrument to End Plastic Pollution. High-level commentary on the Revised draft text ahead of the fourth session of the Intergovernmental Negotiating Committee on plastic pollution (INC-4). Paris, International Science Council.

The policy brief is available online and as a blog:

council.science/current/blog/plastic-treaty-negotiations-must-prioritize-health/

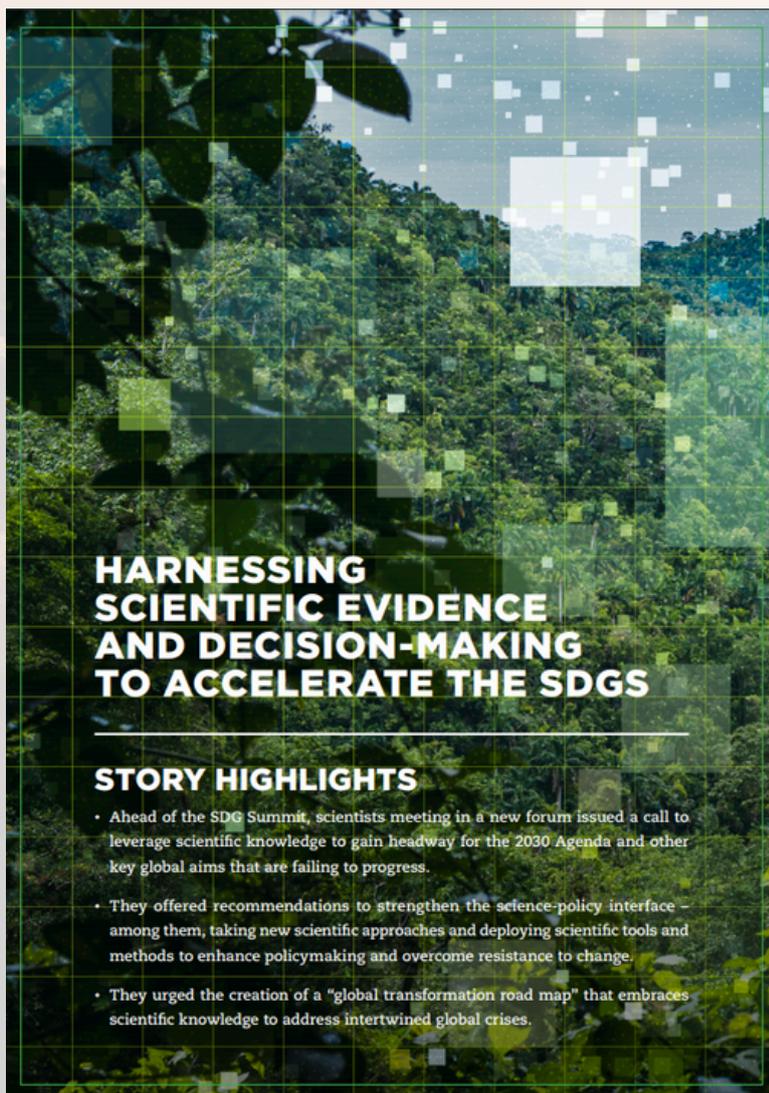


Harnessing scientific evidence and decision-making to accelerate progress on the SDG

This statement summarizes insights from the inaugural Science Day, which brought together scientists to help accelerate progress on the Sustainable Development Goals (SDGs). It calls for strengthening the science-policy interface and creating a “global transformation road map” to address interwoven crises.

Available in six UN languages:

<https://council.science/publications/harnessing-science-accelerate-sdgs/>

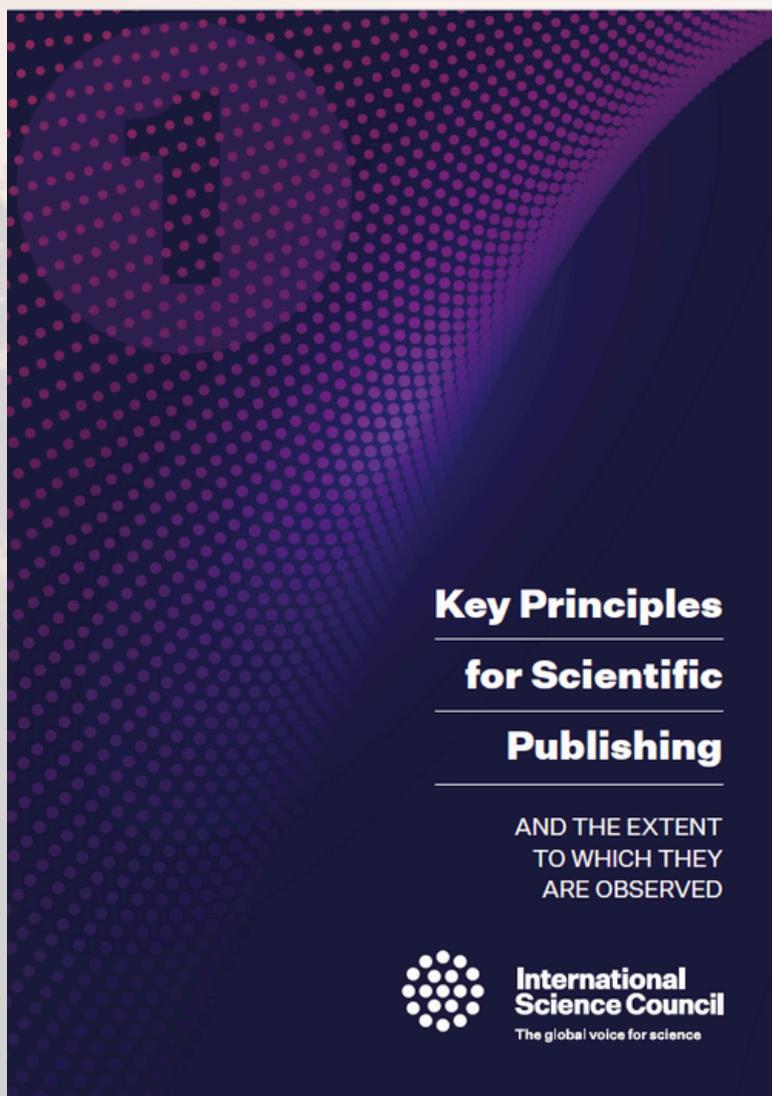


The Key Principles for Scientific Publishing

The International Science Council through its Members has identified a total of eight key principles for scientific publishing. This paper is complemented by a second, evaluating the extent to which the principles are attained and identifying opportunities for reform.

These principles have been developed by International Science Council members as part of the Council's Future of Publishing project and are a companion piece to "The Case for Reform of Scientific Publishing" paper.

<https://council.science/publications/key-principles-for-scientific-publishing/>



The Case for Reform of Scientific Publishing

This timely discussion paper sets out priorities for reform in scientific publishing proposed by the International Science Council. IT represents the culmination of this phase of work, setting out priorities for reform for the ISC.

The discussion paper explores the vital role of publishing in the global network of scientific ideas and information. It addresses the shortcomings of the current system from numerous angles, and proposes a transformative vision for the future.

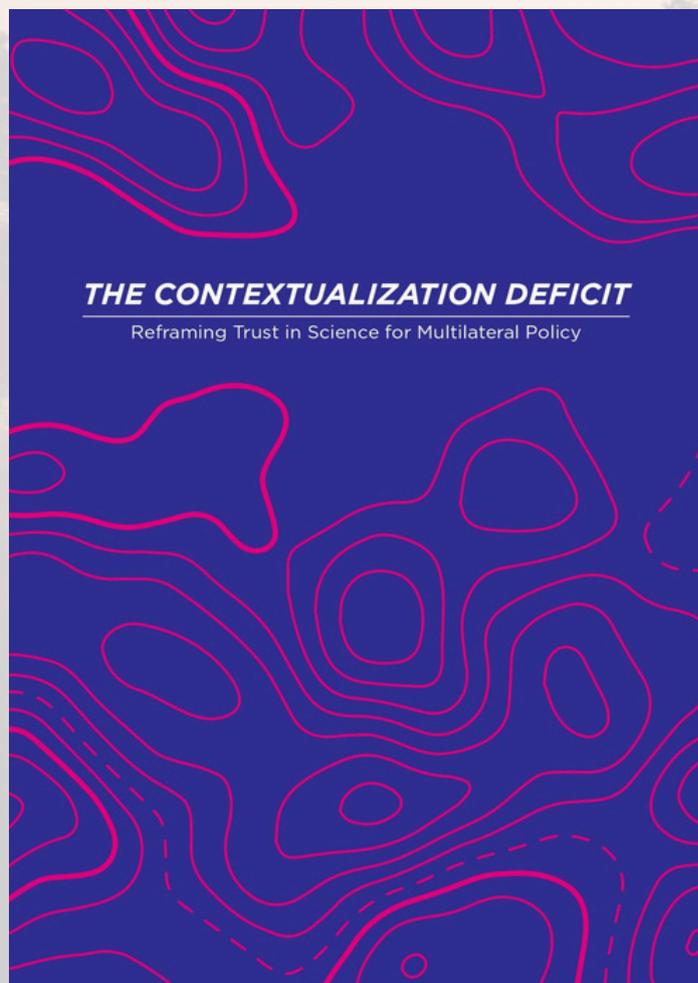
<https://council.science/publications/reform-of-scientific-publishing/>



The Contextualization Deficit: Reframing Trust in Science for Multilateral Policy

How can the multilateral policy interface effectively engage with science in ways that are trusted by populations? In order to build trust, this working paper, presented by the ISC's think tank, the Centre for Science Futures, in partnership with the UNESCO Unitwin Chair on Communication for Science as a Public Good, suggests the necessity of updating the science-policy interface model. Drawing upon empirical evidence from the past 15 years, it explores new frameworks for envisioning what a healthy science-policy interface might entail and how it can effectively address the concerns that drive various communities to either support or oppose science-policy interventions.

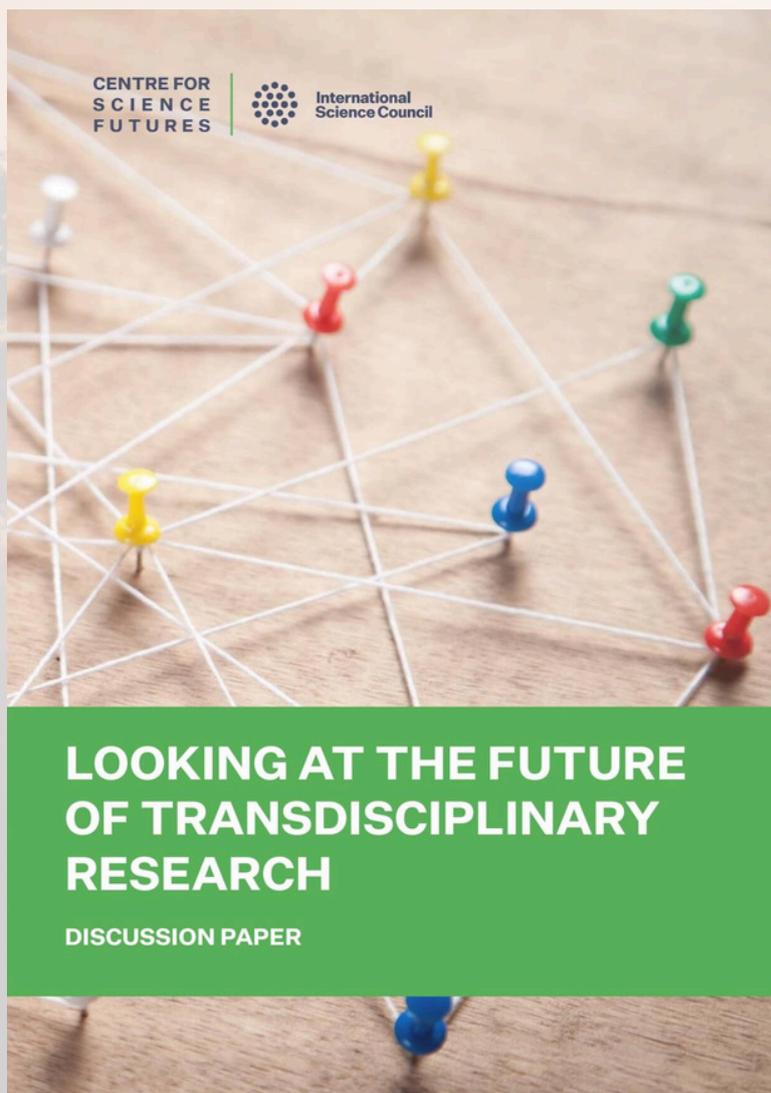
<https://council.science/publications/reframing-trust-in-science/>



Looking at the Future of Transdisciplinary Research

This paper, authored by the ISC Centre for Science Futures, analyses the evolution of science that has facilitated the emergence of transdisciplinarity. It explores the concept of transdisciplinarity, clarifying what it entails and identifying key elements necessary for its successful application in shaping the future of transdisciplinary research.

<https://council.science/publications/future-transdisciplinary-research/>



The Future of Research Evaluation: A Synthesis of Current Debates and Developments

This synthesis report, published by the ISC's think tank, the Centre for Science Futures, provides an overview of the current state of research evaluation systems. It examines recent actions, responses, and initiatives undertaken by various stakeholders, drawing on several case examples from around the world. The aim of this discussion paper is to contribute to ongoing debates and address open questions regarding the future of research evaluation.

<https://council.science/publications/the-future-of-research-evaluation-a-synthesis-of-current-debates-and-developments/>





**International
Science Council**

Work with the ISC to advance science as a global public good.

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