

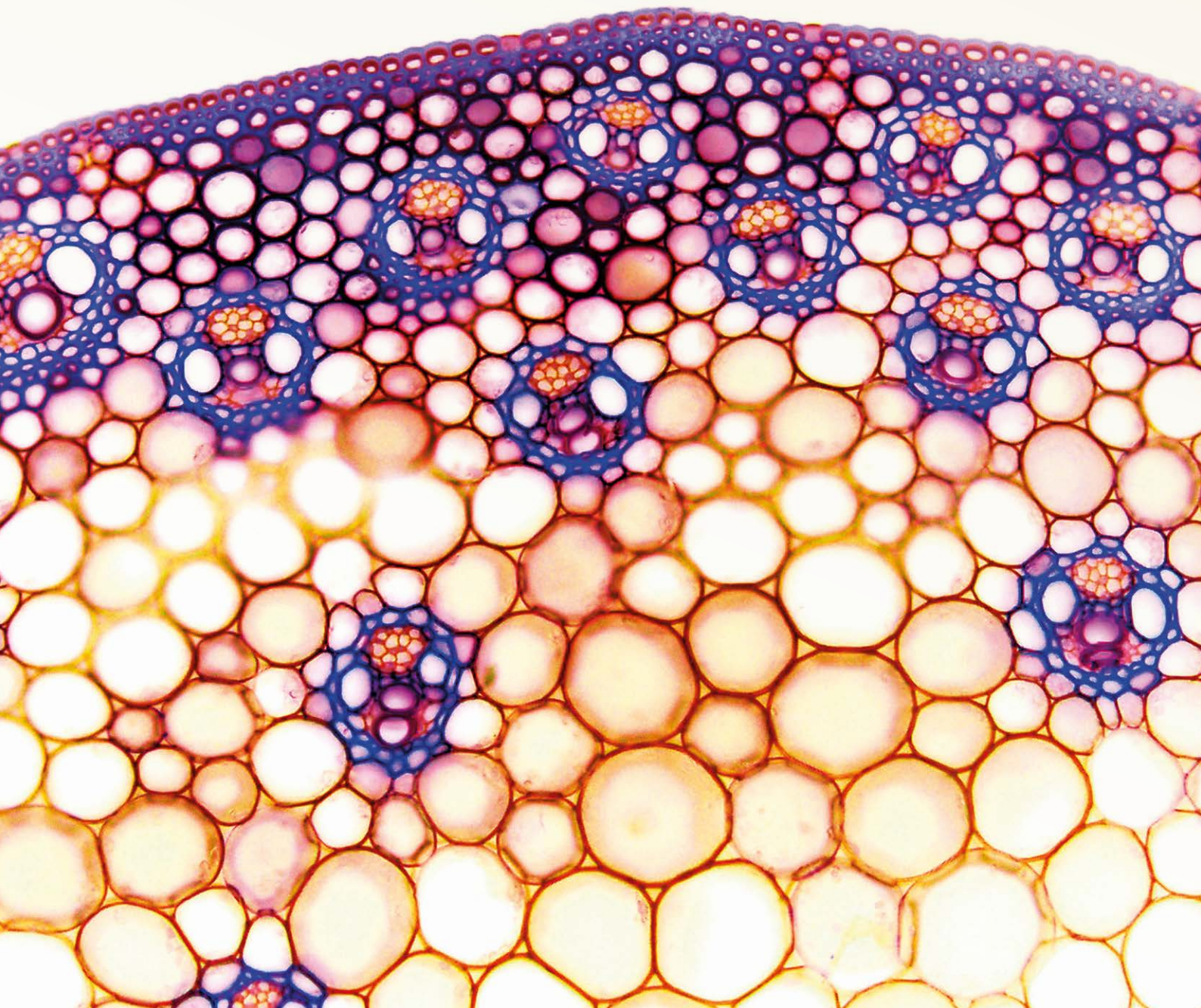


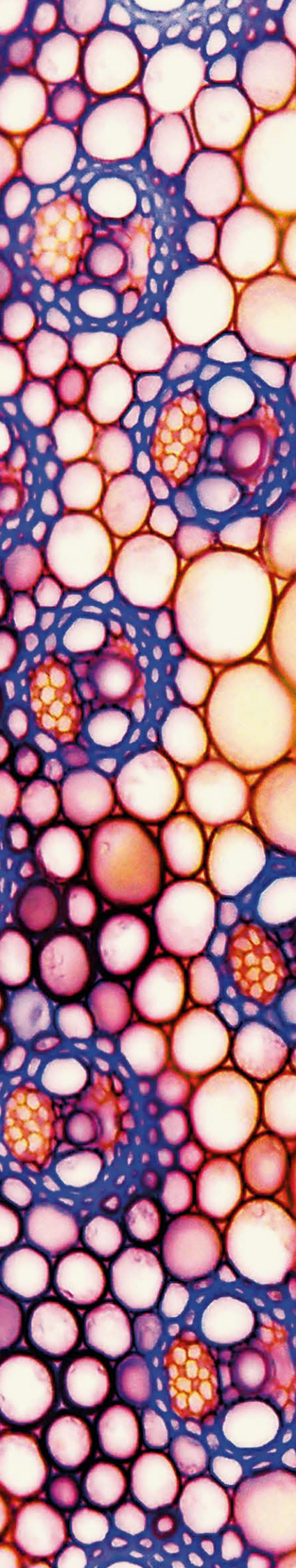
**International
Science Council**

The global voice for science

ACTIVITY AND ACHIEVEMENT REPORT

JULY 2018 TO JUNE 2021





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THE ISC VISION, MISSION AND DOMAINS OF IMPACT

The vision of the International Science Council is of science as a global public good. Scientific knowledge, data and expertise must be universally accessible, and its benefits universally shared. The practice of science must be inclusive and equitable, providing opportunities for scientific education and capacity development.

The mission of the International Science Council is to be the global voice for science – a trusted voice that speaks for the value of all science by:

1. Promoting international research and scholarship on key global challenges.
2. Increasing evidence-informed understanding and decision-making at all levels of public policy, discourse and action.
3. Promoting the continued and equal advancement of scientific rigour, creativity and relevance in all parts of the world.
4. Protecting scientific freedom and advocating principles for the responsible practice of science.

In addition to the ISC's work on freedom and responsibility in science, four priority 'domains of impact' framed the Council's scientific activities in the period 2018–2021. Each represents a landscape of opportunities and challenges:

- Domain 1: The 2030 Agenda for Sustainable Development.
- Domain 2: The digital revolution.
- Domain 3: Science in policy and public discourse.
- Domain 4: The evolution of science and science systems.

KEY REFERENCE DOCUMENTS

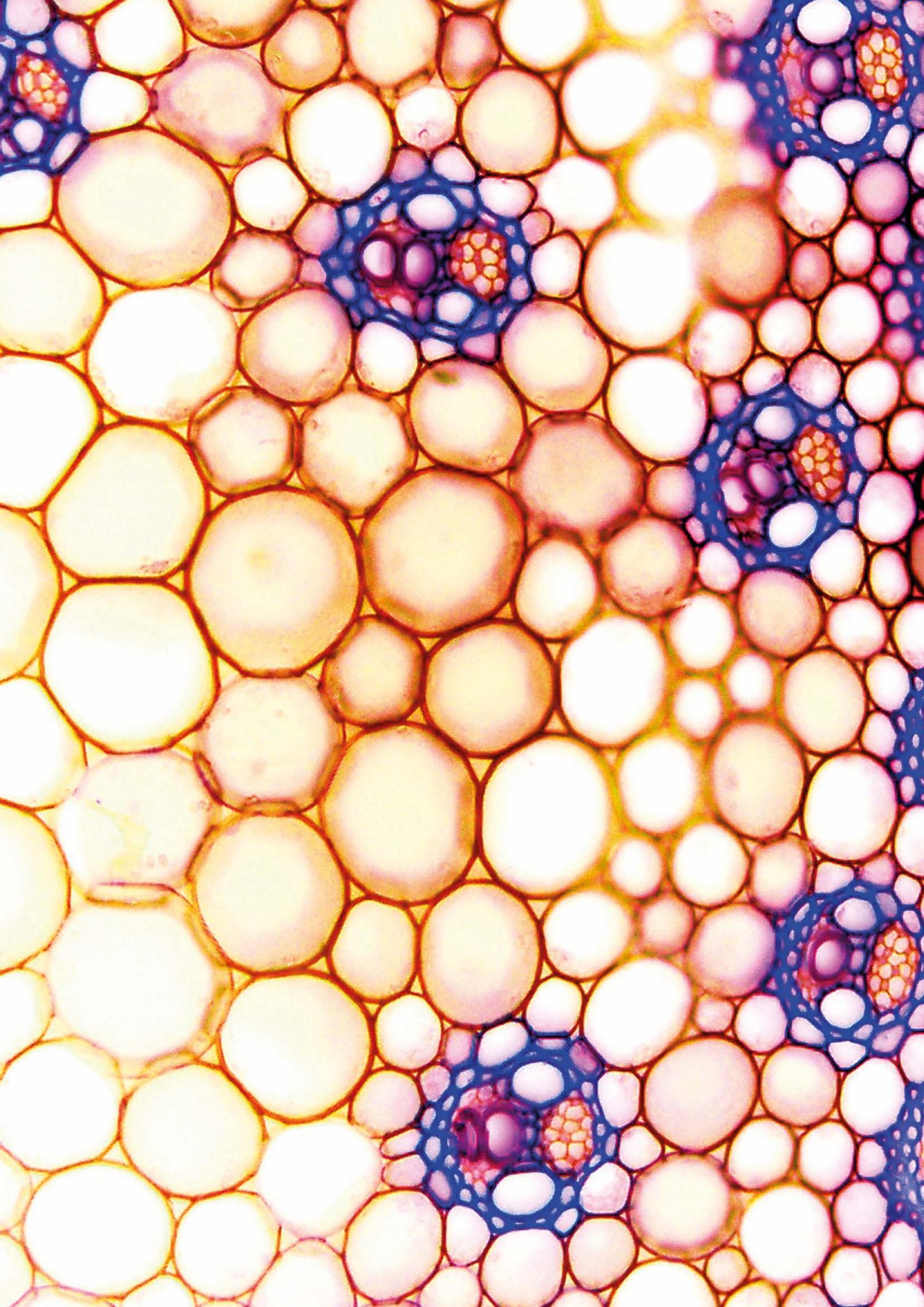
- [2022–2024 Action Plan](#)
- [2019–2021 Action Plan](#)
- [ISC Annual Report 2020](#)
- [ISC Annual Report 2019](#)
- [ISC Annual Report 2018](#)

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MESSAGE FROM THE PRESIDENT AND THE CHIEF EXECUTIVE OFFICER

Just over three years ago, in July 2018, a milestone was reached in the world of international scientific collaboration when the International Science Council (ISC) was formed from the merger of the International Council for Science (ICSU) and the International Social Science Council (ISSC), with a vision of science as a global public good and a mission to be a strong and respected voice for science at the global level.

The establishment of the ISC was in great part a response to contemporary challenges to science – broadly speaking, an ever-growing need for interdisciplinary, international scientific collaboration on urgent and emerging global priorities, in a context of deep inequalities in science systems, persistent barriers to scientific mobility and freedom, the spread of misinformation and a resurgent scientific nationalism.

Against this backdrop, the ISC Governing Board, with the support of the ISC Secretariat, has striven over the past three years to give the Council the strongest start possible. During the first, intense 18 months of operation, we put in place the main elements of a governance system – four Standing Committees – and developed our first Action Plan, setting out an ambitious programme of four strategic domains and twelve priority projects, all in consultation with a supportive and engaged membership. We launched new projects, appointed the first ISC Patrons, appointed a Special Envoy for Science in Global Policy and strengthened the outreach and engagement capacity of the Secretariat.

Half-way through our second year, the world changed abruptly. The COVID-19 pandemic has resulted in the tragic loss of millions of lives and radical disruption for virtually everyone on the planet. In many places, it has amplified existing inequalities and fault lines in societies. As we indicated in the 2020 Annual Report, the pandemic has been a period for profound reflection on science, its workings and its role in society. The ISC has naturally had to reflect on its unique role and capacity to help address the causes and consequences of such a disaster. Far from being redundant, our high-level strategy and 2019–2021 Action Plan proved to be a sound underpinning for our response to the pandemic and for the development of a new Action Plan for the next three-year planning period.

Our third year was therefore simultaneously a year of action and strategic reflection. We launched new activities in response to the pandemic; we held an extraordinary General Assembly in February 2021 to amend the Council's founding Statutes and Rules of Procedure; we adjusted our regional strategy and developed a second Action Plan in response to changing global conditions and on the basis of valuable lessons learnt during the first three years of operation.

The ISC inherited a wide range of activities from its predecessor organizations. We have built on those to develop a unique and ambitious portfolio of work. This report is intended to give a comprehensive, synthetic overview of the breadth of activity and the productivity and achievements of the organization over three years. It should give a sense of the extent to which the ISC is succeeding in achieving its objectives and also of the circumstances that shape its activities and the resources on which it relies. The report focuses on the Council's global activities managed by the ISC Headquarters in Paris and does not systematically cover the activities of our regional offices or our co-sponsored and affiliated bodies.

We are pleased to be able to point to significant progress in four priority domains of impact and towards the ISC's four strategic objectives, as well as appreciable evidence that we are growing stronger, more professional and more impactful as an organization. The report complements the annual reports of 2018, 2019 and 2020, which are more detailed in their description of discrete projects and initiatives.

The structure of this report is as follows. Chapter 1 focuses on the governance and membership of the Council, seeing it as fundamental that the governance structures represent and serve the membership and the mission of the organization, and that close and productive relationships be fostered.

Chapter 2 aims to show how various projects, programmes and ongoing strategic activities are collectively contributing to progress in ISC's four strategic domains, with impact on science, scientific capacity, science agendas, and science systems, globally. The activities reported in this section reflect the growth of the Council into its role as the global voice for science, not only through the effective implementation of strategically chosen projects, but also through an appropriate outreach and engagement strategy and extension of related capacities and competencies.

Chapter 3 reports on how the ISC Secretariat has been organizing itself to be a smart, agile and resourceful team applying principles and processes that reflect the Council's core values.

The first three years of the ISC have been extraordinarily challenging and rewarding. We are proud of the solid foundations we have laid during this period and of the mature organization that will be handed over to the new Governing Board that will come into being in mid-October 2021. For that we have to thank, in particular, the existing Governing Board members for their deep commitment and personal and intellectual investment in making the ISC a success; the ISC members for their good will and collaboration; and the Secretariat in Paris and regional office staff in Kuala Lumpur, Pretoria and San Salvador for their dedication, professionalism and team spirit. We also thank the individual members of the Council's various advisory bodies, and our Patrons, as well as partners and members of the many expert groups that contribute so much to the success of ISC activities. At this moment in history, we recognize and insist more than ever that science is a collective endeavour and that scientific collaboration is indispensable to achieving a just and sustainable world.

Daya Reddy (President)

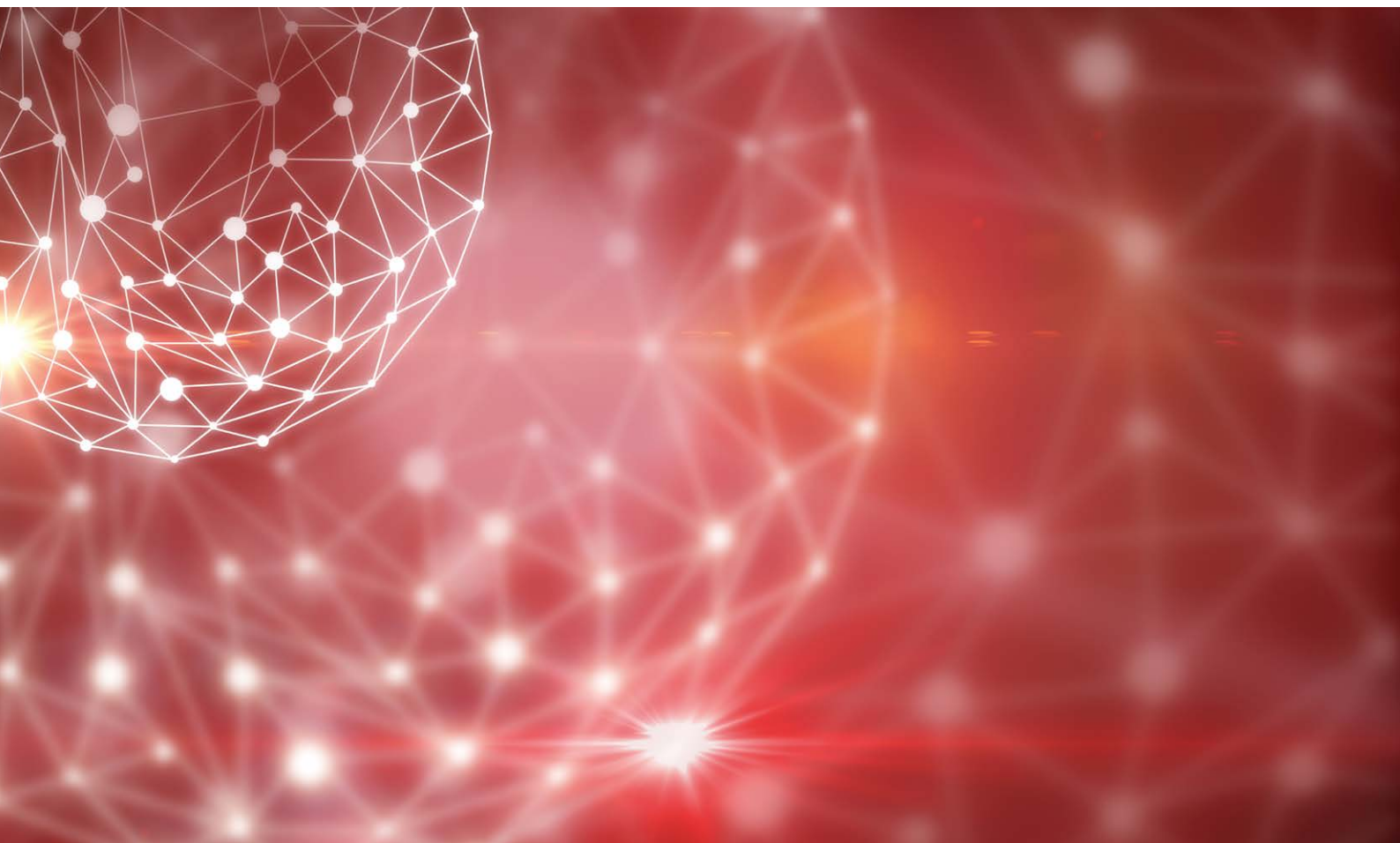
Heide Hackmann (Chief Executive Officer)

1

BUILDING A NEW ORGANIZATION: GOVERNANCE AND MEMBERSHIP

The success and growth of any organization depend on committed, trusting and efficient relationships between its constituent parts.

The first Governing Board of the ISC has worked hard to establish a transparent, accountable and inclusive governance system that represents and serves the members and helps to advance the vision and mission of the organization. See Appendix A for the composition of all bodies mentioned below.



1.1 OPERATIONALIZING THE GOVERNANCE SYSTEM

1.1.1 GOVERNING BOARD

The first Governing Board of the ISC had the foundational tasks of establishing the Council's statutory advisory bodies, road-testing the founding Statutes and Rules of Procedure, and developing both the first and second Action Plan (in 2019 and 2021, respectively). The Board members have provided oversight and quality control for the organization's work; led the development of new activities; represented the ISC in external initiatives and events; and generally acted as ambassadors for the Council, engaging with members, making new contacts, raising the visibility of the Council and promoting the Council's interests. Additional responsibilities of Governing Board members included chairing the advisory bodies and ad hoc committees and leading or participating as experts in project steering groups.

The virtual mode of meeting since the onset of the COVID-19 pandemic in early 2020 enabled the Governing Board and Officers to meet more frequently, with shorter and more focused agendas. By the end of its mandate in October 2021, the first ISC Governing Board will have convened 14 times (of which five times were in person before the pandemic). In the same period, the ISC Officers will have convened 14 times (three times in person).

1.1.2 ADVISORY BODIES

The Governing Board oversaw the establishment of statutory advisory bodies and several ad hoc committees and working groups.

Standing Committees

- The four statutory Standing Committees were established in mid-2019 for a three-year period on the basis of nominations from the members.
 - **Committee for Freedom and Responsibility in Science (CFRS).** The CFRS had seven meetings during the reporting period. The regular work of CFRS, which is supported by the New Zealand Government, involves examining and following cases (individual and generic) of actual or possible infringements of the principles of freedom and responsibility in science. CFRS also releases statements and positions on various matters.
 - **Committee for Finance and Fundraising (CFF).** The CFF had one in-person meeting and three virtual meetings, focusing on annual budgets, the dues payment policy and possibilities for fundraising for the ISC. The CFF has overseen budgeting of ISC funds and advised on financial matters, including dues and reserves. The CFF advises the ISC Governing Board on requests from members regarding the postponement or reduction of dues payments.
 - **Committee for Outreach and Engagement (COE).** The COE met virtually on three occasions during the reporting period, acting as a sounding board to the ISC's one-to-one engagement strategy with members, providing feedback on the evolution of the Council's digital presence and reviewing the ISC's roster of members.
 - **Committee for Science Planning (CSP).** The CSP met virtually three times during the reporting period. It reviewed progress and provided guidance on several projects of the action plan, discussed current roles and focus areas of the Council in the United Nations (UN) system, and held two brainstorming sessions on key issues for global science as inputs into the Action Plan 2022–2024.

Forum of Patrons

ISC Patrons are distinguished individuals who use their international standing and influence to assist the Council in advocating for the social, political, economic and cultural value of science to policy makers and the public. The Forum of Patrons is chaired by the ISC President and currently includes Mary Robinson, former President of Ireland and United Nations High Commissioner for Human Rights, Chair of the Elders and leading defender of climate justice; Ismail Serageldin, Emeritus Librarian of the Library of Alexandria in Egypt; and Vincent ‘Vint’ Cerf, Google Vice-President and Chief Internet Evangelist. The Patrons are generous with their services to the Council. For example:

Mary Robinson (appointed June 2019) has:

- Written an [op-ed](#) with President Daya Reddy on the urgency of climate change in Project Syndicate, which was reproduced in four newspapers worldwide (April 2020).
- Chaired the Advisory Board of the International Institute for Applied Systems Analysis (IIASA)-ISC consultative platform on Bouncing Forward Sustainably (2020 onwards).
- Given a keynote talk at the Second Global Forum of Funders (2021).

Ismail Serageldin (appointed June 2019) has:

- Written a [think-piece](#) for the ISC-United Nations Development Programme (UNDP) project Rethinking Human Development.
- Chaired the Resilient Food Systems ‘track’ of the first phase of the IIASA-ISC project Bouncing Forward Sustainably (2020–2021).
- Participates in the COVID-19 Scenarios Project Oversight Committee.

Vint Cerf (appointed January 2020) has:

- Participated in the [Global Science TV Big Thinkers series](#).
- Written a blog for the ISC COVID-19 portal.
- Co-signed an ISC contribution to the World Humanities Report.

Elections Committee

The 2021 Elections Committee, formally appointed at the extraordinary General Assembly in February 2021, drew up a shortlist of candidates for the 2021–2024 Governing Board from the nominations of ISC members.

Special and *ad hoc* committees and working groups

- The [Ad hoc Dues Committee](#) was tasked with developing a new, unified dues structure for the organization from the two dues structures inherited from the predecessor organizations. The results of their work will be presented to the General Assembly in October 2021.
- The [Awards Programme Development Committee](#) developed an ‘awards programme’ concept in 2020 and oversaw the launch of the programme in late 2020. The review and selection of candidates was undertaken by the [2021 Awards Selection Committee](#).
- A [Statutes and Rules of Procedure Working Group](#) reviewed and proposed changes to the Statutes and Rules of Procedure, which were approved in an [extraordinary General Assembly](#) in February 2021.
- Governing Board Working Groups helped to develop both the 2019–2021 and the 2022–2024 Action Plans, as well as various policies and strategic partnerships.

1.2 ISC MEMBERS AT THE HEART OF ISC ACTIVITY

The ISC exists by virtue of its members and draws its strength from its members. Members are involved at every level of activity – in governance, strategy development and project implementation. Members:

- Nominate and/or elect members of the ISC Governing Board and advisory bodies (including Standing Committees, the Elections Committee and Ad Hoc Dues Committee).
- Contribute to the development of organizational strategy through their responses to calls for feedback, either through written commentary or through discussion in webinar-based consultations (for example, for the regional strategy, the new dues proposal and the draft 2022–2024 Action Plan).
- Are co-leads or implementing partners of joint projects with the ISC (see Appendix C).
- Are involved in ISC projects (see Appendix D) and strategic activities in a variety of other ways – by, for example:
 - Hosting meetings, e.g. Leading Integrated Research in Africa (LIRA) 2030 events.
 - Responding to surveys and other calls for input to shape the direction of projects. Five projects involved a survey of members, and six issued calls to members for nominations or inputs of various kinds. Ongoing strategic work at the science–policy interface also involves numerous calls to members for nominations and contributions (see Appendix E).
 - Reviewing and commenting on draft ISC working and position papers and other publications.
 - Representing the ISC or nominating speakers or experts for UN or other international events or committees (for example, the ISC Delegation to the Special Committee meeting on Open Science in May 2021).
- Host regional structures to enhance the presence of the ISC in the world.

1.2.1 UNDERSTANDING MEMBERS' PRIORITIES, NEEDS AND CONCERNS

A membership engagement campaign, central to the outreach and engagement component of the 2019–2021 Action Plan, was put into action from late 2019 onwards under the direction of the communications team. The goal outlined in the Action Plan was for ISC members to have at least one strategic conversation about their current relationship with the ISC and to discuss future engagement opportunities. Approximately 82 guided conversations with members have been conducted, typically with the president, general secretary or chief executive officer of the member. These conversations were valuable for the ISC Secretariat and seem to have been appreciated by members. Members had an opportunity to explore the ISC's current Action Plan and their role within it; the ISC learned about members' priorities, as well as their issues or concerns, and their interest in opportunities to participate in ISC initiatives. The conversations have informed the development of an ISC value proposition.

In view of the positive response of members to this exercise, such conversations will be an ongoing priority for the Secretariat.

1.2.2 IMPROVING INFORMATION FLOWS

The onboarding of an ISC Membership Liaison Officer in 2020 after a ten-month gap in the position brought a new dynamic to ISC's relationship with its members, once again providing a focal point for all membership-related matters and supporting consistent and regular exchange of information between the Council and its membership. Such communication includes:

- Regular and frequent email updates on news and opportunities in the ISC network.
- Periodic 'Governing Board Communiqués' to inform the membership about actions initiated and decisions taken by the Governing Board.

The ISC website now has a dedicated Members' tab. The Membership Directory has been 'cleaned' to ensure it includes all ISC members' correct name, biography and details, and a Noticeboard provides a one-stop shop for members to view current opportunities and upcoming events. The Noticeboard includes a membership knowledge-sharing platform, which serves to amplify members' outreach around their scientific work and related activities.

1.2.3 SHARING AND LEARNING

In response to requests for more opportunities for engagement and knowledge sharing among the ISC membership, the ISC Knowledge Sharing Series of online gatherings was launched in November 2020. The sessions are open to all staff members, office bearers and representatives of ISC members and affiliated bodies. They have included:

- Welcome webinars for new members and new office bearers of current members. These have proved popular and the Council will now run them every six months.
 - A 'New Frontiers of Science Communication' webinar, which launched the Sci Comms network for ISC members, affiliated bodies, and partners.
 - Sessions on hosting virtual meetings.
 - A Q&A session on the nomination process for the new Governing Board with the current President and President-elect.
-

1.2.4 EXPANDING THE MEMBERSHIP BASE

Recruiting and retaining engaged ISC members is critical to the ISC's mission to be a global voice for science. To that end, the Secretariat has campaigned for members of the ISC not currently in good standing to regain their good standing, enabling them to take full advantage of their membership. In parallel, the ISC continues to engage with potential members, particularly in disciplines and countries or regions where there are membership gaps.

At the time of publication, the ISC has 41 members in Category 1 (international scientific unions and associations), 146 members in Category 2 (academies of sciences, research councils or analogous not-for-profit scientific bodies representing a broad spectrum of scientific fields or disciplines in a country, region or territory, or globally) and 37 members in Category 3 (Affiliated Members).

Since its establishment, the ISC has welcomed 22 new members (see Appendix B):

- In 2018, the year of ISC's founding, one (full) new member.
- In 2019, three members (one full, two affiliated).
- In 2020, twelve members (six full, six affiliated).
- 2021 (to June), seven new members (one full, six affiliated).

1.3 RESTRUCTURING OUR REGIONAL PRESENCE

The 2019–2021 Action Plan outlined a vision for a new kind of regional presence of the ISC in which regional structures would operate as part of a distributed global secretariat working from a single strategy and Action Plan. It was envisaged that the existing regional offices inherited from ICSU would continue until the end of the existing hosting agreements and then transition into, or be replaced by, new structures. It was also foreseen that initial steps would be taken towards establishing a presence in the Middle East and amongst the Small Island Developing States (SIDS).

The Regional Office in Latin America and the Caribbean, funded and hosted by the Government of El Salvador, closed in December 2019 after a change of government.

The Regional Office for Africa (ROA), hosted by the Academy of Science of South Africa and funded by the Government of South Africa through the Department of Science and Innovation (DSI), remained active until its closure in March 2021 when its hosting arrangement expired.

The Regional Office in Asia and the Pacific (ROAP), hosted by the Academy of Sciences in Malaysia and funded by the Ministry of Science, Technology and Innovation, remains active; its hosting arrangement ends in September 2021.

Three consultative meetings with members in Africa, Latin America and the Caribbean, and Asia-Pacific were held in spring 2020. The regional meetings aimed, among other things, to:

- Identify strategies for increased impact of the Council in the region.
- Get feedback on proposed regional governance structures and operational arrangements.
- Encourage members in the regions to consider hosting future regional structures.

In late 2020, the ISC Governing Board invited expressions of interest from members in Latin America and the Caribbean and Africa to host regional ISC structures. A call for expressions of interest from members in Asia and the Pacific was issued in the spring of 2021.

In mid-2021 the ISC regional presence is as follows:

- The **Small Island Developing States Liaison Committee**, established in July 2020, helps mobilize input from the region for ISC initiatives and for UN and other global policy processes. The Committee is also working on a report on ‘Challenges of research funding in SIDS’ and related issues, which should be finalized by December 2021.
- In 2021, the Governing Board agreed to establish a regional structure in Latin America and the Caribbean (LAC), to be hosted by the Colombian Academy of Exact, Physical and Natural Sciences. A regional Liaison Committee will be established under the leadership of Enrique Forero (President of the Colombian Academy). The anticipated launch of this structure will be at the end of 2021.
- The Governing Board is reviewing expressions of interest to host a regional structure in Asia and the Pacific.
- Exploratory discussions with members in Africa are continuing to better understand the capacity needs for hosting a regional presence of the ISC.
- The European group of ISC members continues to self-organize annual meetings to give support and strategic input to ISC processes and activities. Until 2021, the Swiss Academy of Sciences chaired and provided the secretariat for the group; that function has now been taken over by the Estonian Academy of Sciences.

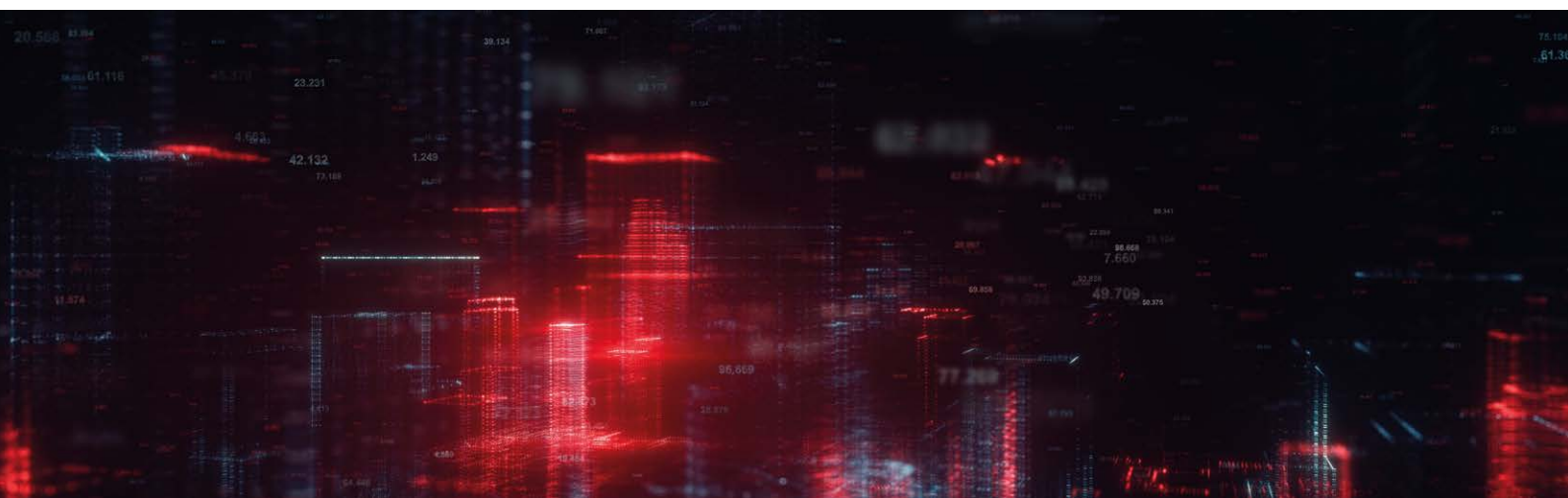
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IMPLEMENTING THE ISC VISION: SCIENTIFIC ACTIVITIES

This chapter sets out the types of activities that the ISC undertakes to achieve its strategic objectives (see p. 3) and gives a summary of progress and achievements in the four priority domains of impact and in response to the COVID-19 pandemic. Unless otherwise stated, the reporting period in question in the entirety of this report is July 2018 to June 2021.

It should be noted that the Regional Offices in Latin America and the Caribbean, Africa, and Asia and the Pacific have been important contributors to ISC projects and strategic objectives, engaging with members and stakeholders in the regions, representing the ISC at events and in initiatives in the regions, supporting the development of regional open science platforms and building scientific capacity. More detail about their activities and achievements can be found [here](#).

Similarly, this report does not cover the activities and achievements of the co-sponsored programmes and affiliated bodies that operate under the auspices of the ISC (see Appendix F).



2.1 AN EXPANDING SCIENTIFIC PORTFOLIO

At its formation in 2018 the ISC inherited a substantial portfolio of activities from its predecessor organizations. Three years later, this portfolio has evolved and expanded significantly. Not only has the number of activities grown, but our approach to project design and implementation has also become smarter, with clearer goals and ambitions, better integration of scientific and communications expertise, the application of a common project management approach, and a systematic effort to involve ISC members and the Regional Offices meaningfully at appropriate stages.

The Council's current scientific portfolio comprises six main types of activity:

1. Leadership of and partnership in targeted projects and programmes.

The 2019–2021 Action Plan described 13 new projects/programmes for the ISC. By June 2021, the Council was responsible for implementing and resourcing (either from ISC core funds or external grants) and/or contributing expertise to a set of 30 projects and programmes (see Table 1) – only four of which existed prior to the formation of the Council – with a combined total of some 70 external partner organizations (see again Appendix C). This increase is partly the result of emerging opportunities seized by the Council, including requests from UN agencies and other international partners, and partly a response to the COVID-19 pandemic.

Most of the 30 science projects are well on track and many have been delivering beyond what was anticipated. The growth in the volume of activity has demanded some reprioritization of projects and adjustment of the focus or scope of others. Table 1 offers an indication of the progress made in each project.

2. Safeguarding the free and responsible conduct of science.

ISC activities pertaining to the promotion of scientific freedom and responsibility are overseen by the Committee for Freedom and Responsibility in Science (CFRS). Apart from specific, targeted projects, which are included in Table 1 below, a substantive amount of CFRS work goes into monitoring and responding to individual or generic cases of infringement of scientific freedom. In the last three years, CFRS dealt with 40 cases (24 generic and 18 individual cases) and developed nine CFRS Statements, two Governing Board-approved ISC Positions and a set of CFRS Case Management Guidelines. A complete list of CFRS outputs can be found in Appendix I.

3. Engagement in UN and other global policy fora and processes.

The ISC undertakes continuous strategic action at the intersection of science and policy in the UN's post-2015 development agenda, notably on the 2030 Agenda for Sustainable Development, the Sendai Framework for Disaster Risk Reduction, the Paris Agreement on Climate Change and the New Urban Agenda. In addition to collaborating with UN bodies – including the United Nations Environment Programme (UNEP), UNDP, the United Nations Office for Disaster Risk Reduction (UNDRR) and the World Health Organization (WHO) – in joint activities, the Council's roles within the UN system range from representing science and enabling scientific participation in UN events and processes to preparing independent scientific input and advice. Its formal responsibilities within the UN system include the coordination, together with the World Federation of Engineering Organizations (WFEO), of the International Scientific and Technological Community (STC) Major Group, and the coordination of the Scientific and Technological Community (STC) Major Group for the Sendai Framework for Disaster Risk Reduction within the UN.

This type of activity also involves ISC representation in UN advisory bodies such as the UN Climate Summit Advisory Group and the 10-Member Group to support the UN Technology Facilitation Mechanism.

A summary of ISC engagement in global policy fora and processes during the past three years is presented in Appendix E.

4. Co-sponsorship of affiliated international scientific programmes, networks, committees and other bodies.

Fifteen international research programmes, networks, committees, observing systems or data bodies are (co-)sponsored by or operate under the auspices of the ISC (see again Appendix F). The ISC's role and level of involvement in governance and management vary according to the type of body concerned. All these bodies existed prior to the establishment of the ISC and, apart from formal co-sponsorship responsibilities, the Council seeks to engage experts from these bodies in ISC-led/co-led projects/programmes and in its global policy engagements.

5. Representation in, endorsement of and support for other international initiatives and events.





The ISC is very frequently invited to participate in, endorse or support the activities of other bodies – typically an international conference (or conference series), an UN International Year or Decade, a statement or a global report. Appendix G provides an overview of events and initiatives that the ISC has endorsed, supported or participated in since its establishment.

6. Administration of awards and prizes

In 2020, the Governing Board launched the ISC Awards Programme to recognize excellence among our members' communities all over the world. The first awards will be conferred at the Second ISC General Assembly in October 2021.

The ISC confers the annual Stein Rokkan Prize for Comparative Social Science Research. The Prize is managed by the European Consortium for Political Research and generously supported by the University of Bergen.

Colour coding:

-  Two international funding programmes existing before the ICSU–ISSC merger in July 2018
-  Two projects agreed/initiated before the preparation of the 2019–2021 Action Plan
-  13 Action Plan projects (from chapters 3 and 4 of the 2019–2021 Action Plan)
-  13 projects initiated since the publication of the 2019–2021 Action Plan

The four-point scale used to assess progress:

- 1 In development, planning in progress
- 2 Progress slower than planned or anticipated
- 3 Good progress, on track with plans
- 4 Completed

Table 1 key

Project or programme, by domain		Progress				Formal steering group (or equivalent)
		1	2	3	4	
Domain 1: The 2030 Agenda for Sustainable Development						
1	Transformations to Sustainability (T2S) Funding Programme					✓
2	Leading Integrated Research on Agenda 2030 (LIRA) Funding Programme	Completed				✓
3	Global Sustainability Science Leadership Initiative					
4	SDG Interactions as a National Policy Driver	Completed				
5	Global Forum of Funders					✓
6	Hazard Definitions and Classification Review (Phase I)	Completed (Phase II in planning)				✓
7	New Technologies for Risk-informed Policy	On hold				
8	Rethinking Human Development (Phase I)	Completed (Phase II in planning)				✓
9	Towards COP26/Transform 21 Portal					
Domain 2: The Digital Revolution						
10	Data-driven Interdisciplinarity Decadal Programme					
11	Global Data Resources and Governance	On hold				
12	Coalition for Digital Environmental Sustainability (CODES)					✓
Domain 3: Science in Policy and Public Discourse						
13	Global Science–Policy Interfaces					✓
14	Public Value of Science: Global Science TV and ISC-BBC StoryWorks					✓
15	Science in the Private Sector	On hold				
Domain 4: Science Systems						
16	Open Science and the UNESCO Recommendation					✓
17	Open Science in the Global South, incl. Regional Platforms					✓
18	Gender Equality in Science (Phase I)					✓
19	Future of Scientific Publishing (Phase I)	Completed (Phase II in planning)				✓
20	Research Evaluation					✓
21	Refugee and Displaced Scientists					✓
22	Freedom and Responsibility in Science in the 21st Century					✓
23	Combating Systemic Discrimination in Science					✓
24	ISC-Nature Podcast on Diversity in Science	Completed				
25	Conduct of Scientists Working in Emergencies					
26	Science as a Global Public Good Position Paper					
COVID-19 responses						
27	COVID-19 Global Science Portal					✓
28	IIASA-ISC Consultative Science Platform (Phase I): Bouncing Forward Sustainably	Completed (Phase II in planning)				✓
29	Rethinking Disciplines post-COVID					
30	COVID-19 Outcome Scenarios (Phase I)					✓

Table 1: Overview of ISC-led or co-led targeted projects and programmes as of June 2021

2.2 KEY RESULTS IN THE PRIORITY DOMAINS OF IMPACT

Each of the priority domains and our COVID-19 response is served by ‘targeted’, time-bound projects (identified by bold font in the following pages) and/or ongoing strategic work or support for external initiatives.

The rich set of intermediate results and outcomes from across the full range of ISC activities (targeted and ongoing) suggest that the ISC is having impact at global level – on science agendas, knowledge production, scientific capacity, scientific collaboration and more.

2.2.1 DOMAIN 1: THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT

- The ISC’s two funding programmes, the Transformations to Sustainability (T2S) programme and the Leading Integrated Research in Africa for 2030 (LIRA) programme, both funded by Sida, have had appreciable scientific and broader impacts and set the bar high for other funders. Between them they have:
 - Leveraged approximately 18 million Euros of research funding from national and international funders for integrated, solutions-oriented, co-designed, internationally collaborative research for sustainability across North and South, involving 38 seed grants, 43 international projects and eight follow-up collaborative projects.
 - Produced an impressive list of scientific publications, training materials and other outputs for wider audiences on various sustainability topics and on transdisciplinary approaches.

From July 2018 to June 2021 the ISC produced (alone or in partnership):

- 120 blogs or think-pieces, stimulating discussion and debate around topical issues.
- 26 written advocacy pieces, including ISC and CFRS statements, policy briefs and High Level Political Forum (HLPF) position papers.
- 33 articles, papers and briefs originating in original research or literature reviews.
- 16 reports, including study reports, technical reports and advisory reports.
- 59 short films or podcasts.
- Four knowledge hubs – the ISC COVID-19 portal, the Rethinking Human Development portal, the Transform21 portal for the 26th Conference of the Parties to the UN Framework Convention on Climate Change (COP26) and the Convention on Biological Diversity (CBD15), and the IIASA-ISC Consultative Science Platform.
- Eight conferences (e.g. two editions of the Global Forum of Funders, the World Science Forum 2019).
- 46 conference sessions or side events (including official sessions at UN events).
- 19 stand-alone project-related webinar events with a focus on presenting and discussing knowledge and ideas.
- 15 workshops or training events.
- The World Social Science Forum 2018 in Fukuoka, Japan.

The main written publications and outputs of the past three years can be found in Appendix H.

- Enabled hundreds of researchers and societal partners to develop transdisciplinary research skills and research leadership capacity, particularly in the Global South.
- Had real-world impact on social and environmental conditions in many places around the world and on local and regional policy.

Key programme-level outputs include:

- An ongoing virtual special issue of the journal *Current Opinion in Environmental Sustainability* collecting literature reviews on aspects of social transformations to sustainability: 'The State of Knowledge on Social Transformations'.
- LIRA 2030 Report, 'Advancing the 2030 Agenda in African cities through knowledge co-production: Urban experiments led by early-career African scientists' (April 2020).
- The Sustainable Development Goal (SDG)s Interactions Working Group worked effectively to increase uptake and application of the 2017 SDG Interactions Framework in science and policy, in, for example:
 - The International Panel on Climate Change (IPCC) Special Report on Global Warming of 1.5°C for SDG interaction score.
 - The 2019 Global Sustainable Development Report.
 - The development of the Enabling SDGs tool by the European Commission Joint Research Centre.
- The ISC has built up a community of practice around SDG interactions, bringing together a diverse set of scientists from a wide range of disciplines, organizations and sectors to better understand the interactions amongst the SDGs and pathways to implementation that deliver co-benefits.
- In 2019, the ISC (with the Belmont Forum, the National Research Foundation, South Africa (NRF), Sida, IDRC, IIASA and Future Earth) convened the first Global Forum of Funders to discuss collaboration and joint action to support science for the SDGs. The participating organizations agreed to initiate a decade of funding action for sustainability. This statement of shared purpose from research institutions and funders was noted in an article published in *Nature Sustainability* in September 2019, which highlighted the ISC's ability to mobilize diverse expertise in the context of sustainability science. The Forum also mandated the ISC to identify priority areas for collaborative international funding action ('science missions'). To that effect, the ISC organized a global consultation which resulted in 239 responses from 61 countries, compiled the conclusions and recommendations of over 20 world reports and assessments, and led a major literature review. The resulting draft report, 'Unleashing Science: Delivering Missions for Sustainability', was presented at the Second Global Forum of Funders in April 2021 (and will be published in September 2021). Following the second Forum, the ISC is establishing a high-level coalition of political leaders, science funders – both national and philanthropic – and development aid agencies to identify practical steps, appropriate institutional arrangements and funding mechanisms required to co-construct and deliver on science missions for sustainability.
- In June 2020, the ISC organized a high-level webinar on the role of science and science funders in the time of the COVID-19 crisis.
- A series of blogs has been published on the role of mission-oriented science for sustainable development, featuring perspectives from Japan, Sweden and the European Commission.

- The Sendai Hazards Definition and Classification Review project was launched in 2019 to develop a common set of hazard definitions for monitoring and reviewing implementation of the Sendai Framework, the SDGs and the Paris Agreement on Climate Change. It produced a major output, the ‘Hazard Definition & Classification Review’ Technical Report ISC–UNDRR, 2020. A supplement of over 300 ‘hazard information profiles’ is soon to be published. See <https://council.science/events/hazards-report/>.
- The process involved nearly 100 authors, over 80 organizations and over 130 reviewers.
- The partnership agreement with UNDRR has been renewed following the successful collaboration in this project.
- In 2020, the ISC launched the Rethinking Human Development project in partnership with the UNDP, with a view to developing a new conceptual framework to guide analysis, measurement and decision-making on human development.
 - The project was launched with a think-piece by ISC Patron Ismail Serageldin, and produced 37 published inputs and a synthesis essay by the Steering Group in four languages.
 - On 10 November 2020, World Science Day for Peace and Development involved a global relay of virtual events that brought together over 260 participants in events held across different regions in the Americas (North and South), Asia-Pacific, Africa and Europe.
 - The success of the project laid the foundation for a second phase of the partnership with UNDP focusing on developing potential indices to measure the evolving concept of human development.
- In early 2021, in partnership with the UK COP26 organizing team at the UK Cabinet Office, the ISC inaugurated Transform21, a global science portal to share and amplify knowledge from its members and networks relevant to the upcoming COP26 negotiations.
- ISC was appointed by the Bureau of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) to coordinate the first independent review of IPBES. The report was delivered and presented at the 7th plenary of IPBES (29 April to 4 May 2019, Paris) as an official document (IPBES/7/INF/18).
 - The review produced five key messages.
 - The findings were also published in a special issue of *Ecosystems and People* on the challenges and opportunities of the science–policy interface.
- ISC CEO Heide Hackmann was appointed to the Science Advisory Group for the UN Climate Action Summit 2019. The group oversaw the landmark ‘United in Science’ report synthesizing the key scientific findings of recent work undertaken by major partner organizations in the domain of global climate change research, including the World Meteorological Organization, UNEP, the Global Carbon Project, IPCC, Future Earth, the Earth League and the Global Framework for Climate Services (see https://public.wmo.int/en/resources/united_in_science).
 - The report was launched on 22 September 2019 at the UN Climate Action Summit and ISC President Daya Reddy participated as a speaker.
- ISC CEO Heide Hackmann was a member and co-chair of the Ten-Member Multi-Stakeholder Group of experts to support the UN Technology Facilitation Mechanism (2018–2020).

2.2.2 DOMAIN 2: THE DIGITAL REVOLUTION

- The ISC's project on data-driven interdisciplinarity, Making Data Work for Cross-Domain Grand Challenge: A Decadal Programme (2021–2030), led by the Committee on Data of the ISC (CODATA), is based on strong partnerships and alliances with important players in the community, including the World Data System (WDS), the Research Data Alliance (RDA) and GO FAIR and the Data Documentation Initiative (DDI), and with ISC members and affiliated bodies (e.g. the International Union for the Scientific Study of Population (IUSSP), the International Union of Pure and Applied Chemistry (IUPAC), the International Union of Crystallography (IUCr) and the Urban Health and Wellbeing programme UHWB). The initiative has already produced important results, including:
 - Technical publications on making scientific vocabularies FAIR (findable, accessible, interoperable and reusable) on the web, and on metadata standards for cross-domain integration.
 - A collaboration with IUSSP on FAIR Vocabularies in the demographic sciences.
 - The Global Open Science Cloud initiative, a partnership of international data organizations, with initial support from the Chinese Academy of Sciences, CODATA and the EGI Foundation, to promote cooperation, alignment and interoperability among open science clouds/platforms.
 - Case studies in cross-domain research areas, including technical work to combine demographic, clinical and phylogenetic data in the INSPIRE Platform for Evaluation and Analysis of COVID-19 Harmonized (PEACH) data project and collaborations on healthy and resilient cities data with the Urban Health in Latin America project (SALURBAL), CEPT University, India and UHWB.
 - Fundamentally important work to encourage and to help align good practice in the Digital Representation of Units of Measure.
- The ISC, UNEP, UNDP, the German Environment Agency, the Kenyan Ministry of Environment and Forestry, and Future Earth's Sustainability in the Digital Age initiative launched a new flagship initiative, the Coalition for Digital Environmental Sustainability (CODES) in March 2021, with the aim of anchoring environmental sustainability needs in the UN Secretary General's Digital Cooperation Roadmap.
 - A virtual conference to work towards defining an 'Acceleration Plan on Digital Environmental Sustainability' was held on 10–11 June 2021.

In addition to these two activities, much of the ISC's work on open science is highly relevant to the challenges and opportunities of the digital revolution. Key results associated with the open science work are presented under Domain 4 below.

2.2.3 DOMAIN 3: SCIENCE IN POLICY AND PUBLIC DISCOURSE

- In 2019, the Council appointed Flavia Schlegel, former Assistant Director General for Science at the United Nations Educational, Scientific and Cultural Organization (UNESCO), to serve as its Special Envoy for Science in Global Policy. The Special Envoy assisted in building the ISC's identity and presence at the highest political levels within the UN and other global policy fora, such as the G20.

- In March 2021, a high-level group of renowned scientists, former UN officials and diplomats was appointed to lead the development of the ISC strategy in the intergovernmental system under the Global Science–Policy Interfaces project. Their recommendations will be discussed by the Governing Board in September 2021; the outcomes of this discussion will guide the development and implementation of the strategy. The development of a strategy in the intergovernmental system builds upon and aims to significantly strengthen ISC’s on-going work to represent science and bring scientific evidence to bear in decision-making in a number of UN and global fora, as described in Appendix E.
- The Public Value of Science project outlined in the Action Plan was split into several workstreams framed around understanding scientific engagement, enabling scientific engagement and extending scientific engagement. The ISC is developing partnerships with media organizations to engage different audiences in ways that demonstrate the value of science.
 - Global Science TV, in partnership with the Australian Academy of Science, aims to share scientific expertise directly from experts themselves, while educating, entertaining and informing viewers on major issues of scientific relevance. Eighteen episodes have been produced since May 2020. Monthly averages on YouTube are around 40,000 views, and on Facebook, over 100,000. The project paused in mid-2021 to plan the next phase.
 - In January 2021, the ISC partnered with BBC StoryWorks to produce compelling and transformational science stories from ISC members, funding programmes and affiliated bodies for a new series to be launched in the last quarter of 2021. The series will explore the role of science in solving humankind’s most complex challenges. Around 80 submissions from our members and networks were received by May 2021.
 - The Council experimented with podcasts for the first time in 2020, launching ISC Presents in February. The series includes Women in Science, Big Thinkers and Diversity in Science (Nature Working Scientist podcast), the latter being an output of the Combating Racism and Discrimination in Science project. The podcasts are available on Spotify, Apple and Google platforms. The number of listens across the different series totalled 17,995, with a large majority coming from the Nature partnership.
- The Council developed a concept for a series of three-yearly Global Knowledge Dialogues that will strengthen the ISC’s relationship with global decision-makers and leaders from the worlds of science and technology, policy, industry, foundations, civil society and the media.
 - The first edition (the ‘Muscat Global Knowledge Dialogue’) was to be held in Oman in October 2021 but due to the COVID-19 pandemic has been rescheduled to early 2023 (31 January to 3 February). It will be held over three days and participation will be by invitation only. The audience will include: heads and chief scientists of UN agencies; leadership from the Organisation for Economic Co-operation and Development (OECD), development banks and sovereign funds; government ministers; leaders from industry, civil society and the media, heads of science funding bodies (both governments and major foundations); presidents and executive directors of scientific academies, research councils, international scientific disciplinary bodies and international science networks; and Nobel Prize laureates and other globally recognized scientists.

2.2.4 DOMAIN 4: THE EVOLUTION OF SCIENCE AND SCIENCE SYSTEMS

- The ISC has contributed to mobilizing the science community around open science.
 - In September 2020, the ISC published a draft discussion paper entitled 'Open Science for the 21st Century'.
 - Simon Hodson (Executive Director of CODATA) was appointed vice-chair of the UNESCO Expert Advisory Group on Open Science and had a major role in preparing the draft text of the UNESCO Recommendation on Open Science.
 - In late 2020, the ISC assisted UNESCO in mobilizing responses from the global scientific community to its first draft Recommendation on Open Science.
 - The ISC and its members were invited by UNESCO to participate in the intergovernmental special committee meeting (Category II) of technical and legal experts on 10–12 May 2021. The ISC delegation made this statement.
- The ISC, with CODATA and its Regional Office for Africa, played a critical role in mobilizing key African institutions and experts to establish the African Open Science Platform (AOSP). The initiative is now hosted by the National Research Foundation in South Africa and funded by the South African Department of Science and Innovation. The ISC is represented on the AOSP Advisory Council. An AOSP Executive Director is expected to be appointed in September 2021.
 - The AOSP has inspired the development of similar initiatives in Latin America and Asia-Pacific, which are now at various stages of conceptualization and development. The ISC is working to ensure connections and collaboration across the regional platforms.
 - With the support of the ISC and CODATA, and together with the Academy of Sciences Malaysia and the Ministry of Science, Technology and Innovation, the Regional Office in Asia and the Pacific advocated for open science to the Asia-Pacific Economic Cooperation (APEC) forum. These efforts culminated in an endorsement by the APEC Policy Partnership on Science, Technology and Innovation of the 'Open Science Statement' that calls on all APEC economies to support open science, promote science-based evidence in the promulgation of domestic policies and enhance collaboration through capacity building and experience sharing.
- The ISC has initiated a project to gather and share data and evidence on effective policies and practices to advance Gender Equality in Science and to build a network of international science organizations that are monitoring progress and working together to improve gender equality. A survey of ISC members undertaken in 2020 received feedback from 48% of ISC academy members and 63% of unions and associations, demonstrating the interest from members in sharing best practice on improving gender equality. A report of the findings, including recommendations for further action, is due in 2021.
- In 2020, the ISC launched the Future of Scientific Publishing project. A scoping group led an initial wide consultation involving nearly 80 ISC members. It concluded that there are major deficits in the way that scientific needs are served by scientific publishing and that there is urgent need for reform. The arguments were presented in two major ISC reports: 'Business Models and Market Structure within the Scholarly Communications Sector' (September 2020) and 'Opening the record of science: making scholarly publishing work for science in the digital era' (February 2021).

- The preparatory work for this project included a series of interviews in 2019 about scientific publishing and open access, sparked by the publication in September 2018 of ‘Plan S’ – the European Commission initiative to advance open access. Contributors included Robert J. Smits (European Commission), Steven Inchcoombe (Springer Nature), and Dominique Babini (the Latin American Council of Social Sciences).
- Work is underway in 2021 to build a consensus on the need for change with other key stakeholders in the scientific enterprise, including researchers themselves as represented within the ISC membership, funders, universities and scientific institutions. Working collaboratively, the project would promote the normalization of recent innovations in scientific publishing that are aligned with the principles and priorities for scientific publishing identified in the ISC report.
- The Refugee and Displaced Scientists project, led by the World Academy of Science (TWAS) under the umbrella of Science International and funded by Sida, led to the creation of the Science in Exile Network in June 2020. The network aims to gather knowledge and lay the groundwork for a cohesive and coordinated global response by different types of science institutions to the challenges faced by displaced and refugee scientists.
- Following the murder of George Floyd in Minneapolis on 25 May 2020, the ISC published a ‘Statement on Combating Racism and other forms of Systemic Discrimination in Science’ (9 June 2020) calling for dialogue in all sectors of society, including science.
 - The ISC has convened a core group of international science organizations to discuss action aimed at correcting systemic discrimination in science.
 - The ISC partnered with Falling Walls on two webinars for the World Science Summit (1–10 November 2020):
 - Combating Systemic Racism in Science Systems.
 - Forging a more inclusive research ecosystem: a dialogue with key stakeholders, in collaboration with Elsevier.

2.2.5 RESPONSES TO THE COVID-19 PANDEMIC

- Early in the pandemic, the ISC launched its COVID-19 Global Science Portal to provide an interactive overview of responses to COVID-19 by the ISC community, including over 150 statements, briefs and events by members. The portal became the Council’s second-most visited page after the homepage in 2020.
- In May 2020, the ISC and the International Institute for Applied Systems Analysis launched the IIASA–ISC Consultative Science Platform: Bouncing Forward Sustainably – Pathways to a post-COVID World, which involved consultation with more than 200 experts. The results, including a synthesis report and four thematic reports, and related content are showcased on the multimedia website Transformations Within Reach: Pathways to a Sustainable and Resilient World.
 - The ISC CEO Heide Hackmann and Leena Srivastava, IIASA Deputy Director General for Science, gave an interview entitled ‘A sustainable post-COVID future’, in *Nature Sustainability*.
 - A second phase of the project is currently under exploration with IIASA.

- In late 2020, the ISC consolidated its work on COVID-19 into one major COVID-19 Scenarios Project focusing on possible ways to achieve an optimal and just end to the pandemic. It is led by a global oversight group of experts in natural, social and economic sciences, with the WHO and UNDRR as observers. The project aims to finalize a report in September 2021.
 - The project was launched with a commentary published in *The Lancet*.
- The Council experimented with online meetings to organize global discussions on priority questions for ISC members. The first set of discussions focused on how Covid-19 affected the self-perception and agendas of major social science disciplines, starting with economics and psychology. The webinars were convened by eminent sociologist and Committee for Science Planning member Craig Calhoun and were entitled:
 - Rethinking economics in the light of COVID-19 and future crises, November 2020
 - The two psychologies of the pandemic: from ‘fragile rationality’ to ‘collective resilience’, April 2021, in partnership with the International Union of Psychological Science (IUPsyS)
- The ISC co-led the Corona Sustainability Compass science blog launched in April in partnership with the German Environment Agency (Umweltbundesamt), Future Earth and Foundation 2°. The blog promoted dialogues that considered the bigger challenges ahead: the impact of global warming, the excess consumption of planetary resources and the loss of biodiversity – taking the current crisis as a unique opportunity to rethink business models and shape a new start for more sustainable and future-proofed economies.
- The COVID Education Alliance was created in response to a major challenge exposed by the COVID-19 pandemic: how to make education systems agile in the face of external shocks and fully adapted to the digital transformation. The ISC used its convening role to help build the Alliance by bringing together international thought leaders with expertise in digital education. The Alliance, convened by the Platform for Transformative Technologies (P4TT) and the Foundation for Global Governance and Sustainability (FOGGS), has produced a primer suggesting five goals for new, holistic education systems.

3

INCREASING INFLUENCE AND IMPACT: PARTNERSHIPS, NETWORKS, COMMUNICATIONS AND OUTREACH

The ISC can only be the global voice for science if it is known and trusted by the scientific community and wider society.

This chapter looks at indications of the ISC's position as an influential, respected actor in the global scientific arena and at the communications and outreach work that is so critical to maintaining and strengthening that position.



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3.1 NEW PARTNERSHIPS AND GROWING NETWORKS

- Several targeted projects and strategic activities originated in external invitations or requests, including:
 - The Hazard Definitions and Classifications Review (UNDRR).
 - Rethinking Human Development (UNDP).
 - Open Science and UNESCO (UNESCO).
 - Coalition for Digital Environmental Sustainability (UNEP, UNDP, the German Environment Agency, the Kenyan Ministry of Environment and Forestry, Future Earth, Sustainability in the Digital Age).
 - IIASA-ISC Consultative Science Platform on Bouncing Forward Sustainably: Pathways to a post-COVID World (IIASA).
 - Transform21 portal, the official scientific knowledge-sharing platform of COP26 (UK Cabinet Office/COP26 organizing team).
 - Review of the zero draft of the 2019 Global Sustainable Development Report, together with the InterAcademy Partnership (IAP) and the World Federation of Engineering Organizations (WFEO) (UN DESA).
- At least 70 different institutional partners are involved in implementing targeted projects with the ISC (see again Appendix C for an overview). Some of those partnerships have been formalized with Memoranda of Understanding or Letters of Understanding.
- A small number of institutional partnerships (in place or in development) provide an umbrella framework for strategic cooperation. These are:
 - A Memorandum of Understanding (MoU) with the InterAcademy Partnership, signed in November 2020.
 - A Memorandum of Understanding with the World Federation of Engineering Organizations (in development).
 - A letter of intent with regard to closer collaboration with the International Council for Philosophy and Human Sciences (CIPSH) (in development).
- The Council receives many requests, from ISC members, partners and external organizations, for endorsement, sponsorship, collaboration or other forms of meaningful contribution to scientific initiatives and events, where ISC involvement is seen to add authority and give access to a global scientific community. Types of demand for ISC involvement vary widely. See again Appendix G for a list of endorsed, sponsored and partnered activities.
 - In the reporting period, the ISC agreed to sponsor, support or partner in 23 international events, including:
 - Ethnografilm Festival 2019, with the Society for Social Studies of Science and the Journal of Visual Ethnography.

- World Science Forum 2019 (Nov 2019), with the Hungarian Academy of Sciences, UNESCO, the American Association for the Advancement of Science (AAAS), the IAP, the World Academy of Sciences and the European Academies' Science Advisory Council.
- The 5th Science-Policy Forum for Biodiversity (April 2021), with the International Union of Biological Sciences (IUBS).
- Sustainability Research & Innovation Congress 2021 (June 2021), with the Belmont Forum and Future Earth.
- Six International Years and two International Decades, including the Ocean Decade (2021–2030).
- In the same period, the ISC accepted invitations to contribute to or partner in several new initiatives, including:
 - SIDS SAMOA (Small Island Developing States Accelerated Modalities of Action) Pathway Midterm Review. The ISC coordinated the civil society collective statement for the 2019 midterm review of the SAMOA Pathway. Flavia Schlegel attended the High-Level Review meeting.
 - WHO initiative to develop a Global Framework Guidance to Harness the Responsible Use of the Life Sciences (2021).
 - Kyoto Landslide Commitment (2020–2030). The ISC is a signatory and is represented on the Advisory Committee.
 - Task force to develop a proposal for an International Polar Year in 2032 or 2033, initiated by the University of the Arctic, the International Arctic Science Committee (an ISC affiliated body) and the International Arctic Social Sciences Association (an ISC member) (as of 2021).
 - 2022 Global Assessment Report on Disaster Risk Reduction. The ISC is represented on the Advisory Board.
- The President, President-elect, other Governing Board members, the CEO and other members of the Secretariat are frequently invited to give addresses and talks at international events, including important events of our members. President Daya Reddy alone has given more than 40 invited addresses, talks and panel contributions during his term of office.

See Appendix K for an overview of new or recently renewed signed agreements with partners.

3.2 CONVENING POWER

Going hand in hand with a growing reputation and credibility is the growing capacity of the Council to convene and mobilize experts and actors at the highest level around the world. The Council's activities and outputs draw on the expertise of many hundreds, if not thousands, of individuals from all domains of science and parts of the world, including from its members.

- As of June 2021, about 228 experts, not including ISC staff or Governing Board members, were or had been involved in formal or informal steering groups attached to projects and strategic activities (see Appendix J for the composition of those committees and groups). Ninety-one of these (40%) were women. The regional break-down of those experts is as follows:

Africa	25	(11%)
Arab region	8	(4%)
Asia and the Pacific	39	(17%)
Europe	106	(46%)
Latin America and the Caribbean	15	(7%)
North America	35	(15%)

The breakdown of the same experts by domain of practice is as follows:

Natural sciences, health and engineering sciences	101	(44%)
Social sciences and humanities	71	(31%)
Non-scientific ¹	56	(25%)

- The ISC has convened high-level experts for major events including:
 - A Science Day at the founding General Assembly of the ISC in July 2018, which included keynote talks from Craig Calhoun, Esther Duflo, Cédric Villani and Ismail Serageldin.
 - The World Social Science Forum 2018, on the theme of ‘Security and Equality for Sustainable Futures (Fukuoka, September 2018), co-organized with a consortium of academic and research institutions led by Kyushu University, and supported by Science Council Japan and the Japan Science and Technology Agency, under the patronage of UNESCO, which had renowned keynote speakers Kate Raworth, Andrew Feinstein, Urs Gasser, Craig Calhoun, Partha Dasgupta, Hoda Abdel Hamid and more. About 1000 people from 80 countries registered for the event, and presenters came from 71 countries.
 - The first meeting of the Global Forum of Funders in July 2019 which brought together more than 80 science funders, including international development aid agencies, private foundations and national research councils. The second (virtual) meeting in April 2021 brought together over 100 high-level participants from more than 70 countries, including keynote speakers Amina J. Mohammed, Deputy Secretary-General of the United Nations, Drew Leyburne, Vice-Chair of Mission Innovation, and ISC Patron Mary Robinson.

¹ Those counted as ‘non-scientific’ are typically representatives of funding organizations or partner organizations who may have scientific training but who are not practising scientists.

3.3 STRATEGIC COMMUNICATIONS AND OUTREACH

Communications and outreach have become integral to all major ISC activities. Each project team includes communications expertise, and several targeted projects (from Table 1) focus precisely on realizing the potential of scientific communication and outreach.

A key goal from the 2019–2021 Action Plan was to increase the engagement of our stakeholders (ISC members, policy-makers and wider audiences) through compelling storytelling and stronger digital networking and outreach. The Council does this by creating topical communications content that is relevant to ongoing projects, strategic work and developments in the science landscape, while cultivating a distinctive organizational profile.

Much of the ISC website's content is driven by its members, to whom the Council has an open invitation to share content, either through the Membership Noticeboard or via news items.

Each piece of content is accompanied by a social media campaign (through Twitter, Facebook and occasionally Instagram). The Council sends out monthly newsletters for wider audiences to a mailing list of currently about 4,700 individuals; this has grown substantially due to people joining our list after participating in ISC webinars.

In the reporting period, ISC has created or reposted about 300 news items on its website, and about 130 original and 110 cross-posted blogs. There has been a 370% growth in webpage views and an increase from 2.5 million Google search appearances per annum to 8.39 million. This increase can be attributed to expanding staff capacity (particularly with a digital media officer), launching the ISC's COVID-19 Global Science Portal and ensuring that events, publications and campaigns are promoted with engaging content, such as blogs, social media assets and webinars.

In 2021, the ISC introduced a Language Policy to raise awareness of the need to include those whose first language is not English – in ISC activities, communication and governance. In that framework, the ISC website introduced new capabilities for automatic translations in more than 30 languages in 2021. The ISC has also experimented with simultaneous translations during webinar events. It is too early to see if this policy increases traffic to the website from non-English-speaking parts of the world.

The communications team has also helped to diversify and modernize the format of ISC's scientific outputs, giving more attention to making knowledge and debate accessible and attractive to wider audiences, through various kinds of web-based and audio-visual channels. The Council's capacity for organizing effective virtual meetings is also growing thanks to the expertise of the communications team.

Period	Web site	Facebook		Twitter		Instagram		YouTube		Newsletter		Google search
	Page views (K)	Impres sions (K)	New likes	Impres sions (K)	New followers	Impres sions (K)	Total followers	Video views (K)	New sub scribers	Reach (total recip ients, K)	New sub scribers	Search appear ances (M)
		total		total		total						
Jul 18– Jun 19	168	182	880	1,990*	2,027	0	190	2.3	56	15	772	n/a
Jul 19– Jun 20	456	407	2,273	1,881	2,058	67	545	3.5	83	29	1,075	2.5 **
Jul 20– Jun 21	649	1,899	1033	3,410	5,372	985	885	8	180	79	4,407	9.55
Totals	1,273	2,488	4186	5,291	9,457	1052	1,620	13.8	319	123	6254	11.05

* One outlier tweet accounted for 500K **From 17 January 2020

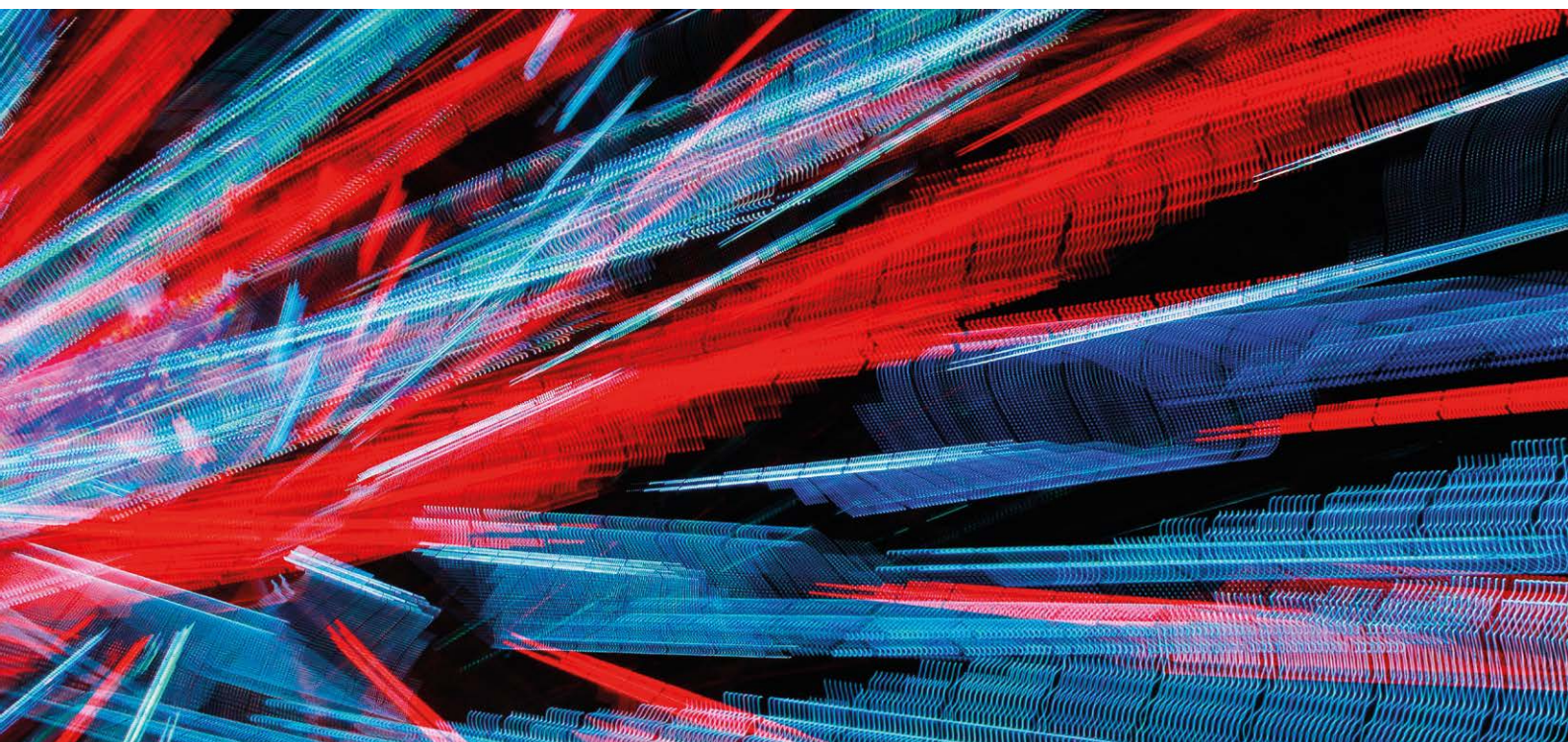
Table 2: ISC website and social media insights

4

SUPPORTING EFFECTIVE DELIVERY: OPERATIONS

The ISC's work and governance is made possible by a great deal of behind-the-scenes activity at the Council's Secretariat, headquartered in Paris. Since the establishment of the ISC in 2018, the management and development of the Secretariat has focused on:

- Establishing an organizational structure and culture, and building up the required capacity and skills to manage a diverse and rapidly growing portfolio of scientific and outreach activities, including during a pandemic.
- Developing organizational systems and policies that help operationalize the vision, mission and core values of the ISC and professionalize the functioning of the Secretariat.



4.1 THE TEAM AT ISC HEADQUARTERS: STRUCTURE, CAPACITY AND SKILLS

In July 2018, the ISC Headquarters (HQ) in Paris comprised 22 members of staff; 16 previously employed by ICSU and six by the ISSC. The total staff turnover rate over the past three years has been 32%, with the highest turnover (22%) recorded during the first 18 months of the ISC's existence.

In June 2021, HQ had a core staff complement of 20, comprising:

- An executive leadership team of one Chief Executive Officer and three Directors (Science, Communications and Operations).
- Six Science Officers.
- Two Communications Officers and one Membership Liaison Officer.
- Seven Administrative and General Support Officers covering financial management, human resources, information technology and infrastructure functions.

In addition, the New Zealand Government, through the Ministry of Business, Innovation and Employment, supports the work of the Committee on Freedom and Responsibility in Science through financing of the CFRS Special Adviser Frances Vaughan and the input of Roger Ridley, Director Expert Advice and Practice at the Royal Society Te Apārangi.

The main changes in the profile of HQ staff over three years concerned:

- Creating development opportunities through the promotion of five members of staff (four from Officer to Senior Officer and one from Senior Officer to Director) and redeployment of two members of staff (one part-time redeployment of a Science Officer to provide executive support to the Governing Board and one redeployment of an Administrative Officer to a Junior Science Officer).
- Building up strength in the communications and outreach team. The position of Director of Communications was created and a Digital Media Officer and dedicated Membership Liaison Officer were appointed. The team has also frequently engaged interns to help meet the ever-growing demand for communications capacity at the Council.
- Securing targeted science, communications and policy expertise. HQ has made more ready use of independent consultants to contribute specific expertise, advice and project management capacity. In addition to the appointment, on an 18-month consultancy basis, of a 'Special Envoy for Science in Global Policy', the HQ team currently includes seven independent consultants, all appointed on a fixed term (and mostly part-time) basis.
- Building capacity in international science management and communications. Nine interns have been hosted over three years. Most straddle science and communications functions, being graduates or undergraduates in environmental or political science domains with an interest or skills in written or digital communications.

Building capacity is also about honing and developing skills and maintaining the health and safety of all staff. Since July 2018, and in addition to supporting individually requested training and development activities, the ISC has offered the following group-based professional and health-related training:

- Analysis, influencing and strategy workshop, with Michel Perelmans (2018).
- Writing and editing for international organizations workshop, with Andrew Johnston (December 2018).
- PRINCE2 project management (April 2019).
- First aid at work (December 2019).

- Using Microsoft Teams (November 2020).
- Eye health training (April 2021).
- Facilitating, chairing and presenting in meetings, by Impact Factory (May 2021).

The ISC has also invested resources in the design and management of virtual meetings and has experimented with various virtual meeting platforms, both for small, internal meetings and large, open webinars and conferences.

4.2 INTERNAL SYSTEMS DEVELOPMENT

With a constantly expanding portfolio of activities, ever-widening networks of partners and stakeholders, and an ambition to understand and assess the impact it is making, the Secretariat has taken two important initiatives to professionalize its operations:

- Introduction of a Project Management System, to systematize important elements of project management. This includes guidelines that determine the roles and responsibilities of project managers and team members, as well as project steering bodies, and clarify internal decision-making and delegation authority and related processes.
- Development of a robust Information and Knowledge Management System to record, track and share information internally and externally. The system has, at its heart, seven principles – knowledge management systems should be simple, shareable, cloud-based, efficient, smart, secure and sustainable.

4.3 ORGANIZATIONAL POLICIES

With the oversight of the Governing Board, HQ has developed or is developing various policies that help guide the implementation of ISC activities in accordance with the Council's core values:

- Conflict of interest policy for members of the Governing Board and committees (March 2019) <https://council.science/wp-content/uploads/2020/06/ISC-Conflict-of-Interest-Policy.pdf>.
- Anti-corruption and anti-money-laundering policy (Nov 2019) <https://council.science/publications/anti-corruption-anti-money-laundering-procedure/>. This policy requires ISC staff, partners and third-party beneficiaries of ISC funds to act honestly and with integrity and to safeguard the resources for which they are responsible.
- ISC Privacy Policy (April 2020). This is a standard policy required for compliance with General Data Protection Regulations in Europe.
- ISC Organizational Sustainability Principles (Oct 2020). This policy will require the ISC (the Secretariat and governing bodies) to track and compare carbon dioxide emissions from travel with a baseline created in 2019, to show the ISC has an eye on sustainable practices.
- Language policy. This policy, which is a work in progress, aims to increase inclusivity and diversity in all ISC activities, including governance. It was initiated in September 2020. The first achievable steps involved adjustments to the ISC website to include more languages and language options during the ISC's webinars.
- Endorsement, sponsorship and partnership policy. This policy, initiated in 2021, is in progress. Based on earlier guidelines used by ICSU, it will guide applicants in making requests to the ISC for support of various kinds and will furthermore guide the Governing Board in making decisions on requests for such support.

4.4 THE EFFECT OF THE COVID-19 PANDEMIC ON OPERATIONS

The Council has, like all other organizations, been challenged by the COVID-19 pandemic since March 2020. It proved possible for the Secretariat and the governing bodies to work productively at a distance. For example, the ISC Governing Board has had more frequent, but shorter, virtual meetings, supplemented with very regular email communication. Biweekly informal virtual gatherings of the Secretariat have helped to maintain staff morale and team relationships.

Two staff wellness surveys (in March and April 2020) – as well as an internal study of staff experiences of teleworking conducted over the period September to October 2020 (after six to seven months Perelman's of teleworking), with a comparative component involving a survey of five cognate, international, knowledge-based organizations – showed that staff adapted well to circumstances after the initial very disruptive ten weeks in France, when schools were closed, but that they missed the learning and sharing that happens more naturally in common workspaces. In consequence, with a view to returning to a 'new normal', the staff were keen to mix teleworking with a presence in the office.

The main quantifiable impacts of the pandemic on ISC operations to be noted are:

- In general, the staff of ISC Headquarters worked remotely on a permanent basis from 17 March 2020 and this is expected to continue until the end of 2021, depending on the evolution of the pandemic. Staff in ROA and ROAP also experienced protracted periods of teleworking.
- There have been no professional trips and no in-person meetings since March 2020, which has had significant financial consequences (see 'Financial matters' below).

Based on experience and learning from teleworking during the pandemic, a longer-term remote working policy has been developed that will be implemented for an initial two-year period (2022–2023), assuming that pandemic conditions allow for a return to the office by January 2022.

4.5 FINANCIAL MATTERS

The ISC started as a merger of two organizations each with a sound financial basis. The total reserves of the ISSC and ICSU were over 3.7 million Euros at the time of the merger on 30 June 2018. Some of those reserves have been used to help initiate new scientific projects.

In 2020, expenditure was lower than expected as a result of the COVID-19 pandemic, and this produced a small positive balance that year. At the end of 2020, the ISC reserves amounted to 3.5 million Euros.

More detail can be found in ISC's annual reports and in the Treasurer's report delivered at the General Assembly in October 2021.

ISC Annual Income and Expenditure 2018–2020				
	Income	2018	2019	2020
1.1	Members	2,939,741	3,069,916	3,056,488
1.2	French Government	100,000	100,000	100,000
	Issc-T2s Programme Carry-Over	978,726		
1.3	Grants And Other Funding	3,875,902	3,516,882	3,138,624
	Total Income	7,894,369	6,686,797	6,295,112
	Expenditure	2018	2019	2020
2	Governance	234,613	221,231	94,067
3	Science	4,677,711	3,359,630	3,054,109
4	Communications	157,633	150,678	129,529
5	Support	2,950,145	3,108,647	2,984,916
	Total Expenditure	8,020,102	6,840,185	6,262,621
	Result	-125,733	-153,388	32,491



LIST OF ABBREVIATIONS

AAAS	American Association for the Advancement of Science
AOSP	African Open Science Platform
APEC	Asia-Pacific Economic Cooperation
CAS	Chinese Academy of Sciences
CAST	Chinese Association of Science and Technology
CBO	Convention on Biological Diversity
CFE	Committee for Finance and Fundraising
CFRS	Committee for Freedom and Responsibility in Science
CIPSH	International Council for Philosophy and Human Sciences
CODATA	Committee on Data of the International Science Council
CODES	Coalition for Digital Environmental Sustainability
COE	Committee on Outreach and Engagement
COP26	26th Conference of the Parties to the UN Framework Convention on Climate Change
COSPAR	Committee on Space Research
CSP	Committee for Science and Planning
DDI	Data Documentation Initiative
DSI	Department of Science and Innovation, South Africa
ECOSOC	United Nations Economic and Social Council
FOGGS	Foundation for Global Governance and Sustainability
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
GRIP	Global Research on Inequality Programme
GSDR	Global Sustainable Development Report
GSTIC	Global Sustainable Technology and Innovation Conference
GYA	Global Young Academy
HLPF	High Level Political Forum
HQ	ISC Headquarters
IAP	InterAcademy Partnership
IATT	United Nations Interagency Task Team on Science, Technology and Innovation for the SDGs
IAU	International Association of Universities
ICSU	International Council for Science
IDRC	International Development Research Centre
IIASA	International Institute for Applied Systems Analysis
IMU	International Mathematical Union
INASP	International Network for Advancing Science and Policy
INGSA	International Network for Government Science Advice
IOC	Intergovernmental Oceanographic Commission

IPBES	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
IPCC	International Panel on Climate Change
IRDR	Integrated Research on Disaster Risk Reduction
ISC	International Science Council
ISSC	International Social Science Council
IUBS	International Union of Biological Sciences
IUCr	International Union of Crystallography
IUE	Institute of Urban Environment
IUGG	International Union of Geodesy and Geophysics
IUHPST	International Union of History and Philosophy of Science and Technology
IUPsyS	International Union of Psychological Science
IUSSP	International Union for the Scientific Study of Population
LAC	Latin America and the Caribbean
LIRA	Leading Integrated Research in Africa
MoU	Memorandum of Understanding
NRF	National Research Foundation, South Africa
NSF	US National Science Foundation
OECD	Organisation for Economic Co-operation and Development
OWSD	Organization for Women in Science for the Developing World
P4TT	Platform for Transformative Technologies
PAUSE	National program for the urgent aid and reception of scientists in exile (PAUSE), France
RDA	Research Data Alliance
ROA	Regional Office for Africa
ROAP	Regional Office in Asia and the Pacific
SDA	Sustainability in the Digital Age Initiative
SDG	Sustainable Development Goal
Sida	Swedish International Development Cooperation Agency
SIDS	Small Island Developing States
SCAR	Scientific Committee on Antarctic Research
STC	Scientific and Technological Community
STI Forum	Multistakeholder Forum on Science, Technology and Innovation
T2S	Transformations to Sustainability
TWAS	The World Academy of Science
UArctic	University of the Arctic
UHWB	Urban Health and Wellbeing programme
UKRI	UK Research and Innovation
UN	United Nations
UN DESA	United Nations Department of Economic and Social Affairs
UNDP	United Nations Development Programme
UNDRR	United Nations Office for Disaster Risk Reduction
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNFCC	United Nations Framework Convention on Climate Change
UN Habitat	United Nations Human Settlement Programme
WCRP	World Climate Research Programme
WDS	World Data System
WFEO	World Federation of Engineering Organizations
WHO	World Health Organization



APPENDICES

APPENDIX A: ISC GOVERNING BODIES AND SPECIAL AND AD HOC COMMITTEES 2018–2021

Name	Activity/membership	No. of meetings by June 2021
<u>Governing Board</u>	Daya Reddy (President) Peter Gluckman (President-elect) Elisa Reis (Vice-president) Jinghai Li (Vice-president) Alik Ismail-Zadeh (Secretary) Renée van Kessel-Hagesteijn (Treasurer) Geoffrey Boulton Melody Burkins Saths Cooper Anna Davies Pearl Dykstra Sirimali Fernando Ruth Fincher James Liao Natalia Tarasova Martin Visbeck Heide Hackmann (CEO, non-voting member)	14 (and 14 separate meetings of the Officers)
Standing Committees		
<u>Science Planning</u>	Peter Gluckman (Chair) Geoffrey Boulton (Vice-chair) Craig Calhoun Qiuming Cheng Armin Grunwald John Hildebrand Melissa Leach Monthip Sriratana Colin Tukuitonga	3
<u>Outreach and Engagement</u>	Martin Visbeck (Chair) Melody Burkins (Vice-chair) Pekka Aula Bonnie Carrol Catherine Middleton L.S. Shashidhara Sameh Soror	3
<u>Freedom and Responsibility in Science</u>	Daya Reddy (Chair) Saths Cooper (Vice-chair) Richard Bedford Craig Callender Enrique Forero Robin Grimes Cheryl Praeger Sawako Shirahase Peter Strohschneider Hans Thybo Nadia Zakhary	7
<u>Finance and Fundraising</u>	Renee van Kessel (Chair) Sirimali Fernando (Vice-chair) Virginia R. Dominguez Jisoon Lee Heikki Lehtonen Michael Matlosz Clifford Nii Boi Tagoe Carlos de Brito Cruz	4

Ad Hoc Working Groups and Special Committees		
<u>Dues Committee</u>	Renée van Kessel (Chair) Teresa Lago Enrique Forero Kathie Bailey Daniel Buquet	3
<u>SIDS Liaison Committee</u>	Peter Gluckmann (Chair) Dania Fernandez Xavier Estico Terrence Forrester Teatulohi Matainaho Louise Milo Michelle Mycoo Vidushi Neergheen Morgan Wairiu	3
<u>Elections Committee (2021)</u>	Daya Reddy (Chair) Alice Abreu Cheryl de la Rey Yuko Harayama Rémi Quirion Flavia Schlegel Vaughan Turekian Ewine van Dishoeck Hebe Vessuri	5
Statutes and Rules of Procedure Working Group	Daya Reddy (Chair) Alik Ismail-Zadeh Saths Cooper Peter Gluckman Heide Hackmann	4
Awards Programme Working Group	Alik Ismail-Zadeh (Chair) Anna Davies Pearl Dykstra Heide Hackmann Jinghai Li Elisa Reis	3
<u>Awards Programme Selection Committee</u>	Alik Ismail-Zadeh (Chair) Mercedes Bustamante Anna Davies Ruth Fincher Umut Korkut Li Jinghai Shuaib Lwasa Narinder Mehra Himla Soodyall Natalia Tarasova Renée van Kessel Mathieu Denis (ex-officio)	3
2019–2021 Action Plan Working Group	Melody Burkins Geoffrey Boulton Peter Gluckman Heide Hackmann	5
2022–2024 Action Plan Working Group	Geoffrey Boulton Pearl Dykstra Daya Reddy Heide Hackmann	6
Review of sponsorship of programmes/ affiliated bodies (2019)	Alik Ismail-Zadeh Renée van Kessel Martin Visbeck Mathieu Denis Heide Hackmann	2
ISC-IAP MoU Development (2020)	Peter Gluckman Daya Reddy Heide Hackmann	2
Review of ISC endorsement policy (2021)	Alik Ismail-Zadeh Mathieu Denis	2

APPENDIX B: NEW ISC MEMBERS SINCE JULY 2018

2018 (from July)	2019	2020	2021 (to June)	Total
1	3	12	7	23
Category 1. Member organizations				6
	Bilim Akademisi (Turkish Academy)	Korean Academy of Science and Technology	Hungary, Eötvös Loránd Research Network	
		Association of Asian Social Science Research Councils		
		Benin National Academy of Sciences, Arts and Letters		
		Académie Nationale des Sciences et Techniques du Sénégal		
Category 2. Member unions and associations				1
		International Union of Biochemistry and Molecular Biology		
Category 3. Affiliated members				16
Association of Science-Technology Centers	Scientific Committee of Problems of the Environment	Society for the Advancement of Science in Africa	Somali Natural Resource Research Center	
	International Statistical Institute	International Network for Advancing Science and Policy (INASP)	Consortium of Humanities Centers and Institutes	
		Global Young Academy (GYA)	Islamic World Academy of Sciences	
		International Society for Porous Media (InterPore)	University of the Arctic (UArctic)	
		Academy of the Social Sciences in Australia	Marie Curie Alumni Association	
		Institute for Global Environmental Strategies	SciTech DiploHub	
		Organization for Women in Science for the Developing World (OWSD)		

APPENDIX C: IMPLEMENTING PARTNERS IN ISC (CO-)LED PROJECTS AND PROGRAMMES

	Project/ Programme	ISC Members	Intl. Sci. Entities	Other Sci. Entities	Funders	UN Bodies	Other Govt.	Other Sector
Domain 1: The 2030 Agenda for Sustainable Development								
1	T2S Programme				Belmont Forum; NORFACE (11 funders); Sida		European Commission	
2	LIRA 2030		Network of African Science Academies					
3	Global Sustainability Science Leadership initiative	On hold						
4	SDG Interactions Working Group	IIASA		Stockholm Environment Institute; University of Bern; Sussex Sustainability Research Programme; Wyss Academy for Nature; McMaster University; Monash University			Deutsche Ge- sellschaft für Inter- nationale Zusam- menarbeit (GIZ)	
5	Global Forum of Funders	IIASA; NRF	Future Earth; Belmont Forum		NSF; UK Research and Innovation (UKRI); Sida; IDRC			
6	Hazard Definitions					UNDRR	Public Health England	
7	New Technologies	On hold						
8	Rethinking Human Development					UNDP		

	Project/ Programme	ISC Members	Intl. Sci. Entities	Other Sci. Entities	Funders	UN Bodies	Other Govt.	Other Sector
9	Transform 21		World Climate Research Programme (WCRP); Future Earth; GRIP; Integrated Research on Disaster Risk Reduction (IRDR); International Network for Government Science Advice (INGSA); UHWB				UK COP26 Cabinet Office	
Domain 2: The Digital Revolution								
10	Making Data Work: A Decadal Programme		CODATA; GO FAIR; RDA; WDS; DDI; IUSSP; Computer Network Information Center, Chinese Academy of Science; UHWB; International Committee for Weights and Measures					
11	Open Science and UNESCO					UNESCO		
12	Coalition for Digital Environmental Sustainability		Future Earth; Sustainability in the Digital Age Initiative (SDA)			UNDP; UNEP	German Federal Environment Agency	
Domain 3: Science in Policy and Public Discourse								
13	Global Science-Policy Interfaces							
14	Public Value of Science	Human Sciences Research Council, South Africa						BBC StoryWorks; World Editors' Forum

	Project/ Programme	ISC Members	Intl. Sci. Entities	Other Sci. Entities	Funders	UN Bodies	Other Govt.	Other Sector
15	Global Science TV	Australian Academy of Science						
16	Science in Private Sector	On hold						
Domain 4: Science Systems								
17	Regional Open Science Platforms	Academy of Science Malaysia; NRF	Inter- American Institute for Global Change Research				DSI	
18	Gender Equality	International Mathematical Union (IMU); International Union of History and Philosophy of Science and Technology (IUHPST); TWAS	GenderInSite; Global Research Council; IAP; WFEO					
19	Future of Scientific Publishing			Scholarly Publishing and Academic Resources Coalition (SPARC)				
20	Knowledge Production and Diffusion (Research Evaluation)	GYA	IAP					
21	Refugee and Displaced Scientists	GYA; TWAS	IAP; Joint Research Centre (European Commission); OWSD	National program for the urgent aid and reception of scientists in exile, France (PAUSE); Scholar Rescue Fund				
22	Freedom and Responsibility in Science							

	Project/ Programme	ISC Members	Intl. Sci. Entities	Other Sci. Entities	Funders	UN Bodies	Other Govt.	Other Sector
23	Combatting Discrimination	GYA; TWAS	CIPSH; Committee of Concerned Scientists; IAP; IAU; International Network of Human Rights for Academies and Scholarly Societies; Scholars at Risk; WFEO	1AAAS				
24	ISC-Nature Diversity Podcast							
25	Conduct of Scientists in Emergencies							
26	Science as a Global Public Good							
COVID-19 response								
27	Global-19 Portal		World Pandemic Research Network; INGSA				German Federal Environmental Agency	
28	IIASA-ISC Consultative Science Platform	IIASA	Earth League; Future Earth					Ban Ki-Moon Centre; Vienna Energy Forum
29	Rethinking Social/ Behavioural Disciplines Webinar Series	IUPsyS						
30	COVID-19 Outcome Scenarios					UNDRR; WHO		

APPENDIX D: FORMS OF ENGAGEMENT OF ISC MEMBERS IN ISC (CO-LED) PROJECTS/PROGRAMMES

Project/ Programme		Providing inputs/ nominations	Consultations/ surveys	Expert group involvement	Hosting events	Participating in events	Partnering on projects	Contributing to outputs
Domain 1: The 2030 Agenda for Sustainable Development								
1	T2S Programme				X	X		
2	LIRA 2030				X		X	
3	Global Sustainability Science Leadership	On hold						
4	SDG Interactions Working Group						X	
5	Global Forum of Funders	X			X	X	X	
6	Hazard Definitions	X	X					X
7	New Technologies	On hold						
8	Rethinking Human Development	X	X		X	X		X
9	Transform 21	X						X
Domain 2: The Digital Revolution								
10	Making Data Work: A Decadal Programme							
11	Open Science and UNESCO	X						X
12	Coalition for Digital Environmental Sustainability							
Domain 3: Science in Policy and Public Discourse								
13	Global Science-Policy Interfaces							
14	Public Value of Science						X	X
15	Global Science TV						X	X

	Project/ Programme	Providing inputs/ nominations	Consultations/ surveys	Expert group involvement	Hosting events	Participating in events	Partnering on projects	Contributing to outputs
16	Science in Private Sector	On hold						
Domain 4: Science Systems								
17	Regional Open Science Platforms		X				X	
18	Gender Equality	X					X	
19	Future of Scientific Publishing	X	X		X			X
20	Research Evaluation							
21	Refugee and Displaced Scientists						X	
22	Freedom and Responsibility in Science	X		X				X
23	Combating Discrimination		X	X		X	X	X
24	ISC-Nature Diversity Podcast			X				X
25	Conduct of Scientists in Emergencies			X				
26	Science as a Global Public Good	X						
COVID-19 Response								
27	Global-19 Portal	X						X
28	IIASA-ISC Consultative Science Platform					X	X	
29	Rethinking Social and Behavioural Disciplines Webinar Series					X		
30	COVID-19 Outcome Scenarios	X	X					

Note: Many of the individual experts involved in project steering groups (or equivalent bodies) are also members or staff of ISC members but were not necessarily nominated by ISC members.

APPENDIX E: SUMMARY OF ISC ENGAGEMENT IN GLOBAL POLICY FORA AND PROCESSES

ISC roles in UN science–policy fora

1. Community building and representation, e.g. nomination of experts for expert groups meeting, speakers at HLPF, newsletter, enabling participation in intergovernmental meetings.
2. Coordinating expert inputs and evidence synthesis, e.g. policy briefs, side events, position papers, review of the Global Sustainable Development Report (GSDR).
3. Promoting the science–policy interface, e.g. IPBES, information exchange between chief scientific advisors, working paper on science at the UN.
4. Framing science in relation to policy needs (better understanding of hazards, systemic risks, scientific priorities related to SDGs and Sendai through SDG science mission and DRR research agenda).
5. Advising the UN system, e.g. 10-Member Group, UN Climate Summit.
6. Building capacity: engagement of scientists in UN processes.

Partners and ISC members involved

- Future Earth
- InterAcademy Partnership
- Integrated Research on Disaster Risk Reduction
- International Institute for Applied Systems Analysis (ISC Member)
- Stockholm Environment Institute
- UNESCO's Intergovernmental Oceanographic Commission (IOC)
- United Nations Human Settlement Programme (UN Habitat)
- United Nations Office for Disaster Risk Reduction
- World Climate Research Programme
- World Federation of Engineering Organizations, Co-lead STC Major Group

SDGs and Agenda 2030, including engagement in the annual High-level Political Forum and the Multi-stakeholder Forum on Science, Technology and Innovation (STI Forum)

- Four position papers for the annual High-level Political Forum.
- Four statements delivered on specific subjects under discussion at the HLPF.
- Nine side events/workshops held at HLPF and STI Fora.
- Nine interventions at various events.
- 24 Science x HLPF newsletters produced since June 2018 when the series was launched.
- Three videos highlighting views from the scientific community on the 2020 HLPF theme.
- 80 reviews of the GDSR 2019 submitted to DESA – ISC together with IAP and WFEO organized the review.
- Two contributions to the United Nations Economic and Social Council and HLPF review process.
- Two contributions to the UN Interagency Task Team on Science, Technology and Innovation for the SDGs (IATT) report for the 2021 STI Forum.
- Four blogs and news items.

Sendai Framework for Disaster Risk Reduction

- One conference (Science-Policy Forum for the Implementation of the Sendai Framework for Disaster Risk Reduction, with UNDRR, May 2019 – 400 participants).
- One side event with United Nations Conference on Trade and Development and UNDRR on the Role of Engaged Science and Technology to Enhance Disaster Resilience and Empower Communities at the 22nd session of the United Nations Commission on Science and Technology for Development with approximately 50 participants, and a high level panel (Vice-minister for Science and Technology from Cuba, the Minister for Higher Education of Zambia, ISC Special Envoy for Science and Global Policy, the head of IRDR International Center of Excellence for community resilience based in New Zealand, the head of IRDR's Scientific Committee).
- One expert workshop with UNDRR and the Risk Knowledge Action Network on systemic risk.
- Two policy briefs.
- One statement from the STC Major Group for the Sendai process.
- Seven newsletters, which had 1,295 opens since it was launched in June 2019.
- ISC representation on the Advisory Board of the 2022 Global Assessment Report on Disaster Risk Reduction.

Biodiversity

- ISC-led external evaluation report of the first work programme of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services delivered to 130 UN Member States.
- One scientific paper (Stevance AS, Bridgewater P, Louafi S, King N, Beard TD, Van Jaarsveld AS, Ofir Z, Kohsaka R, Jenderedijan K, Rosales Benites M, et al. 2020. The 2019 review of IPBES and future priorities: reaching beyond assessment to enhance policy impact, *Ecosystems and People*, 16:1, 70–77).
- One nomination of an expert as IPBES fellow (female scientist from University of Port Harcourt, Nigeria) in 2019.
- One nomination of an expert for an IPBES thematic assessment (female scientist from Stellenbosch University, South Africa) in 2018.
- Nine nominations of experts for two IPBES thematic assessments on the biodiversity, water, food and health nexus and on transformative change (from New Zealand, Uganda, Chile, India, Norway, Guatemala, Pakistan, Jordan) in 2021.
- Co-organization of 5th Science Policy Forum for Biodiversity that convened over 60 speakers and 800 participants (co-organizing partner).

Climate

- Side event organized in partnership with C4O Future Earth, the World Climate Research Programme, the Intergovernmental Panel on Climate Change (IPCC) and others: 'The Cities IPCC Research and Action Agenda for effective urban responses to climate change' at the COP24 (Dec 2018).
- Blog by ISC Patron Mary Robinson and ISC President Daya Reddy emphasizing that climate change needs to be tackled with COVID-19 urgency.
- Statement delivered by the ISC President during the UN Climate Summit.
- Regular contributions to meetings of the United Nations Framework Convention on Climate Change (UNFCCC) Subsidiary Body for Scientific and Technological Advice and UNFCCC research dialogues.
- Appointment of ISC CEO Heide Hackmann to the Science Advisory Group for the UN Climate Action Summit 2019. The group convened a high-level synthesis report of the key scientific findings of recent work undertaken by major partner organizations in the domain of global climate change research.

UN Decade of Ocean Science for Sustainable Development

- Memorandum of Understanding between the ISC and UNESCO's Intergovernmental Oceanographic Commission on a framework for cooperation in support of the development and implementation of the UN Decade of Ocean Science for Sustainable Development (the Ocean Decade) 2020–2030.
- Eleven blogs co-produced with UNESCO-IOC starting from November 2019.
- Two webinars co-organized as part of the Ocean Decade Virtual Series, with almost 1000 participants.
- Nominations of experts for a series of regional webinars on transdisciplinary research approaches.

New Urban Agenda

- Memorandum of Understanding (signed May 2019) with UN Habitat, and the Institute of Urban Environment (IUE) at the Chinese Academy of Science (CAS), on the topic of 'Implementing Urban and Territorial Planning and Policy for Improved Health and Wellbeing'. The cooperation between the signatories aims to support the implementation of the UN-Habitat International Guidelines on Urban and Territorial Planning and National Urban Policy Programme.
- An ISC contribution to the [University College London–Nature Sustainability expert panel report on Science and the Future of Cities](#).

APPENDIX F: CO-SPONSORED INTERNATIONAL RESEARCH PROGRAMMES AND AFFILIATED SCIENTIFIC BODIES

The international research programmes, networks, committees, observing systems and data bodies that the ISC (co-)sponsors and/or that operate under the auspices of the Council are listed below. The list provides information on other organizations involved as co-sponsors and/or partners, and the ISC's representation in these initiatives. It also summarizes the key sponsorship issues and/or developments that the ISC has been involved in addressing since July 2018.

Co-sponsored international research programmes and networks	
<u>Future Earth</u>	Co-sponsors: International Science Council, Belmont Forum, UNESCO, the United Nations Environment Programme, the United Nations University, the World Meteorological Organization. Note: The governance structure of Future Earth is evolving in 2021 following a review in 2020.
<u>Global Research on Inequality (GRIP)</u>	Co-sponsors: International Science Council, University of Bergen. Note: Decision about longer-term involvement of the ISC and the programme's governance arrangements to be taken by end of 2021.
<u>Integrated Research on Disaster Risk (IRDR)</u>	Co-sponsors: International Science Council, United Nations Office for Disaster Risk Reduction. The IRDR International Programme Office is hosted by the Institute of Remote Sensing and Digital Earth (RADI) of the Chinese Academy of Sciences. Funding for the office is provided by ISC member the China Association of Science and Technology (CAST).
<u>International Network for Government Science Advice (INGSA)</u>	INGSA is a New Zealand-based international organization hosted at the University of Auckland by www.informedfutures.org , operating under the auspices of the International Science Council. INGSA became an Incorporated Society under the New Zealand Charities Services in 2021.
<u>Urban Health and Wellbeing (UHW)</u>	Co-sponsors: International Science Council, International Society of Urban Health, InterAcademy Partnership, Institute of Urban Environment of the Chinese Academy of Sciences.
<u>World Climate Research Programme (WCRP)</u>	Co-sponsors: International Science Council, World Meteorological Organization, UNESCO's Intergovernmental Oceanographic Commission.
Co-sponsored international observing systems	
<u>Global Climate Observing System (GCOS)</u>	Co-sponsors: International Science Council, World Meteorological Organization, UNESCO's Intergovernmental Oceanographic Commission, United Nations Environment Programme.
<u>Global Oceans Observing System (GOOS)</u>	Co-sponsors: International Science Council, World Meteorological Organization, UNESCO's Intergovernmental Oceanographic Commission, United Nations Environment Programme.
International data bodies	
<u>Committee on Data (CODATA)</u>	CODATA is the Committee on Data of the International Science Council.
<u>World Data System (WDS)</u>	The International Programme Office of WDS is hosted by the Oak Ridge Institute, University of Tennessee. The International Technology Office is located at the University of Victoria, Canada.

International scientific committees

<u>Committee on Space Research (COSPAR)</u>	The following ISC members are members of COSPAR: International Astronomical Union, International Mathematical Union, International Society for Photogrammetry and Remote Sensing, International Union of Biochemistry and Molecular Biology, International Union of Biological Sciences, International Union of Crystallography, International Union of Geodesy and Geophysics (IUGG), Intl. Union of Geological Sciences, International Union of Physiological Sciences, International Union of Pure and Applied Chemistry, International Union of Pure and Applied Physics, Union Radio Scientifique Internationale, International Union of Theoretical and Applied Mechanics, Australian Academy of Science, Austrian Academy of Science, National Research Council Canada, Chinese Academy of Sciences, Academy of Sciences located in Taipei, Egypt Academy of Scientific Research and Technology, Académie des Sciences France, Deutsche Forschungsgemeinschaft, Hungarian Academy of Sciences, Indian National Science Academy, Israel Academy of Sciences and Humanities, Science Council of Japan, Consejo Nacional de Ciencia y Tecnología, Koninklijke Nederlandse Akademie van Wetenschappen, Royal Society Te Apārangi, Russian Academy of Sciences, National Research Foundation, South Africa, Royal Swedish Academy of Sciences, Swiss Academy of Sciences, US National Academies of Sciences, Engineering and Medicine.
<u>Scientific Committee on Frequency Allocations and Radio astronomy and Space Science (IUCAF)</u>	The following ISC entities are represented: International Astronomical Union, Union Radio Scientifique Internationale and Committee on Space Research (COSPAR).
<u>Scientific Committee on Antarctic Research (SCAR)</u>	SCAR members include: International Astronomical Union, International Geographical Union, International Union for Quaternary Research, International Union for Biological Sciences, International Union of Geodesy and Geophysics, International Union of Geological Sciences, International Union of Pure and Applied Chemistry, International Union of Physiological Sciences, Union Radio Scientifique Internationale, International Association of Cryospheric Sciences.
<u>Scientific Committee on Oceanic Research (SCOR)</u>	The following ISC entities are represented: Association for the Physical Sciences of the Ocean and the International Association for Meteorology and Atmospheric Sciences (of IUGG), and the International Association for Biological Oceanography (of IUBS).
<u>Scientific Committee on Solar-terrestrial Physics (SCOSTEP)</u>	The following ISC entities are represented: Australian Academy of Science, Austrian Academy of Sciences, National Research Council of Canada, Council of Finnish Academies, Deutsche Forschungsgemeinschaft, Hungarian Academy of Sciences, Indian National Science Academy, Israel Academy of Sciences and Humanities, Science Council Japan, Royal Society Te Apārangi, Russian Academy of Sciences, National Research Foundation, South Africa, Academia Sinica, National Academies of Sciences, Engineering and Medicine, COSPAR, SCAR, WDS, International Astronomical Union, International Union Geodesy and Geophysics, International Union of Pure and Applied Physics, Union Radio Scientifique Internationale.

APPENDIX G: ACTIVITIES ENDORSED, SPONSORED OR SUPPORTED BY THE ISC, JULY 2018–JUNE 2021

Activity	Lead and partner organizations	Time period of activity
Beijing Declaration for Promoting Public Science Literacy (19 September 2018)	China Association for Science and Technology	19/09/2018
International Call on Balanced and Inclusive Education (22 November 2018)	Education Relief Foundation	22/11/2018
Lancet statement in support of scientists and public health professionals in China (2020)		19/02/2020
WHO call for action: Managing the Infodemic (11 December 2020)	WHO	11/12/2020
Lisbon Declaration on Humanities (7 May 2021)	CIPSH, UNESCO, Foundation for Science and Technology (Portugal)	07/05/2021
International Day of Light Trust Science Campaign for 2021	UNESCO, Photonics Society, SPIE, OSA	16/05/2021
Earth Science and Art Exhibition (2020–2021)	Young Earth Science (YES) network, Global Young Academy, Chinese Association of Science and Technology	2020–2021
6th Ethnografilm Festival (16–20 April 2019)	Society for Social Studies of Science	16/04/2019
World Forum on Science and Technology Development (2019)	WFEO, CAST, CAS, Chinese Academy of Engineering	16/10/2019
2019 World Conference on Science Literacy	China Association for Science and Technology	16/10/2019
WCRP Institute of Advanced Studies in Climate Extremes and Risk Management (2019)	World Climate Research Programme	21/10/2019
World Science Forum 2019 (2019)	Hungarian Academy of Sciences	20/11/2019
World Biodiversity Forum (2020)	University of Zurich, BioDiscovery, URPP Global Change and Biodiversity	23/02/2020
15th Global Forum on Human Settlements (2020)	Global Forum on Human Settlements, International Telecommunication Union	15/10/2020
2nd World Forum on Science and Technology Development (2020)	China Association for Science and Technology	8/11/2020
2020 World Conference on Science Literacy	China Association for Science and Technology	8/12/2020
5th Science-Policy Forum for Biodiversity and 8th International Conference on Sustainability Science	UN Convention on Biological Diversity, University of Tokyo and IUBS	13/04/2021
Tyler Prize ceremony 2021 (3 June 2021)	Tyler Foundation	03/06/2021
Sustainability Research and Innovation Congress 2021 (12–15 June 2021)	Belmont Forum, Future Earth, Australian Academy of Science	12/06/2021
Global Sustainable Technology and Innovation Conference (GSTIC) 2019	G-STIC	22/11/2019
Global Sustainable Technology and Innovation Conference 2020	G-STIC	26/10/2021
International Decade of Soils 2015–2024	International Union of Soil Sciences	2015–2024
UN Decade of Ocean Science for Sustainable Development 2021–2030	UNESCO's IOC (lead), European Commission, Japan, Sweden, Canada	2021–2030

Activity	Lead and partner organizations	Time period of activity
International Year of the Periodic Table of Chemical Elements 2019	International Union of Pure and Applied Chemistry	2019
International Year of Plant Health 2020	Food and Agriculture Organization of the United Nations	2020–2021
International Year of Sound 2020	International Commission for Acoustics, International Union of Pure and Applied Physics, International Union of Theoretical and Applied Mechanics	2020–2021
International Year of Caves and Karst 2021	International Union of Speleology	2021–2022
International Year of Glass in 2022	International Union of Crystallography, International Union of Pure and Applied Physics, International Union of Pure and Applied Chemistry	2022
International Year of Basic Science for Sustainable Development 2022	International Union of Pure and Applied Physics with 22 further founding unions and partners	2022
SIDS SAMOA Pathway, High-Level Review	UN DESA	2019
National Urban Policy Programme (2019-2020)	UN-Habitat, OECD, Cities Alliance	2019–2020
COVID Education Alliance (launched 2020)	P4TT, FOGGS	Ongoing
Sustainability in the Digital Age (launched 2020)	Future Earth, Mila (Québec Artificial Intelligence Institute), German Environment Agency	2020->
UNESCO Global Independent Expert Group on Universities and the 2030 Agenda (EGU2030)	UNESCO Education Sector, University of Bergen	2020–2021
Kyoto Landslide Commitment 2020–2030	International Consortium on Landslides	2020–2030
World Pandemic Research Network	Paris Institute for Advanced Study, Fondation RFIEA	2020->
Future Earth Global Risk Perceptions Initiative (2021 edition)	Future Earth, Sustainability in the Digital Age, ISC	2021
Foresight for New Collaborative Platforms to Support LMIC science systems	Institute of Development Studies, International Development Research Centre	2021–2022
International Digital Health and AI Research Collaborative (as of 2021)	Fondation Botnar, Wellcome Trust	2021->
A Global Guidance Framework to Harness the Responsible Use of the Life Sciences (2021)	WHO	2021->
Planning for International Polar Year 2032 or 2033	University of the Arctic, International Arctic Science Committee, International Arctic Social Sciences Association	2032 or 2032
Transformative Economic Models: A Research Agenda Prospective	UKRI, Global Challenges Research Fund	To be started

APPENDIX H: MAIN ISC PUBLICATIONS/OUTPUTS JULY 2018 TO JUNE 2021

Note: The following list includes outputs which were either published by the ISC or where ISC staff or representatives were authors or editors of the output.

Corporate publications			
Corporate	High-Level Strategy of the International Science Council		Jun-2018
Corporate	Science as a Global Public Good: ISC Action Plan, 2019–2021		Jul-2019
Corporate	International Science Council Introductory Brochure		Aug-2019
Corporate	Review of the World Climate Research Programme		Aug-2019
Corporate	ISC Annual Report 2018		Oct-2019
Corporate	Review of the Urban Health and Wellbeing Programme		Dec-2019
Corporate	ISC Annual Report 2019		Jul-2020
Corporate	ISC Annual Report 2020		Jul-2021
Domain 1	The 2030 Agenda for Sustainable Development		
Transformations to Sustainability	Virtual special issue of Current Opinion in Environmental Sustainability on ‘The State of Knowledge on Transformations to Sustainability’ (12 papers and counting)	Special issue of journal	Ongoing
Transformations to Sustainability	Special issue of Current Opinion in Environmental Sustainability (vol. 49): ‘Transformations to sustainability: Critical social science perspectives’ (12 papers and editorial)	Special issue of journal	Apr-21
Transformations to Sustainability	Series of Knowledge Briefs on transformations to sustainability (7 briefs and counting)	Brief	Ongoing
LIRA 2030	Research funding programmes aiming for societal transformations: Ten key stages. Science and Public Policy, Volume 46, Issue 3, June 2019, 463–478, https://doi.org/10.1093/scipol/scy074	Peer-reviewed article	Jan-19
LIRA 2030	Advancing the 2030 Agenda in African cities through knowledge co-production	Study report	Mar-20
Hazard definitions	Opinion piece in Thomson Reuters News: From COVID-19 crisis comes opportunity to rethink risk (Mami Mizutori and Heide Hackmann)	Thinkpiece/Op-Ed	Jun-20
Hazard definitions	Hazard Definition and Classification Review: Technical Report	Technical report	Jul-20
Rethinking Human Development	Reflections on Constructing a Human-Centred Development Paradigm	Thinkpiece/Op-Ed	Apr-20
Rethinking Human Development	Conversations on Rethinking Human Development – Report	Synthesis report	Nov-20
Rethinking Human Development	Synthesis essay: Rethinking Human Development: a journey with multiple and shifting narratives	Working or occasional paper	Nov-20
Domain 2	The Digital Revolution		
Open Science and UNESCO	Open Science for the 21st Century	Working or occasional paper	Jun-20
Open Science and UNESCO	Statement by the ISC Delegation to the UNESCO Special Committee meeting on Open Science, 6–12 May 2021	ISC Statement	May-21

Domain 3	Science in Policy and Public Discourse		
Science–Policy Interfaces – SDGs	<u>Science–Policy Interfaces – SDGs</u>	Position paper	May-20
Science–Policy Interfaces – SDGs	<u>Science and Technological Community Major Group written statement for the general debate of the 2020 High-level Political Forum/ High-level Segment of ECOSOC</u>	ISC Statement	Jul-20
Science–Policy Interfaces – SDGs	<u>Reviews of ECOSOC and HLPF: Contribution from the Scientific and Technological Community Major Group</u>	Working or occasional paper	Feb-21
Science–Policy Interfaces – SDGs	<u>Response to the zero draft of the resolution for the ECOSOC and HLPF reviews</u>	Working or occasional paper	Feb-21
Science–Policy Interfaces – SDGs	<u>Lessons learned from Covid-19 for the Science-Policy-Society Interface. Contribution to the UN IATT Report to the STI Forum 2021 (pp. 35–38)</u>	Brief	May-21
Science–Policy Interfaces – SDGs	<u>Transforming science systems to effectively respond to 21st century global challenges. Contribution to the UN IATT Report for the STI Forum 2021 (pp. 99–101)</u>	Brief	May-21
Science–Policy Interfaces – SDGs	<u>Sustainable and resilient recovery from the COVID-19 pandemic that promotes the economic, social and environmental dimensions of sustainable development: building an inclusive and effective path for the achievement of the 2030 Agenda in the context of the decade of action and delivery for sustainable development</u>	Position paper	May-21
Science–Policy Interfaces – Climate	<u>United In Science: High-level synthesis report of latest climate science information convened by the Science Advisory Group of the UN Climate Action Summit 2019</u>	Synthesis report	Sep-19
Science–Policy Interfaces – Climate	<u>The 2019 review of IPBES and future priorities: reaching beyond assessment to enhance policy impact</u>	Peer-reviewed article	Dec-19
Science–Policy Interfaces – SDGs	<u>Empowering people and ensuring inclusiveness and equality (HLPF 2019)</u>	Position paper	May-19
Science–Policy Interfaces – SDGs	<u>HLPF 2019 Plenary on Education SDG4</u>	ISC Statement	Jul-19
Science–Policy Interfaces – SDGs	<u>HLPF 2019 Plenary on Climate SDG13</u>	ISC Statement	Jul-19
Science–Policy Interfaces – Sendai	<u>Disaster Loss Data in Monitoring the Implementation of the Sendai Framework</u>	Brief	May-19
Science–Policy Interfaces – Sendai	<u>Achieving Risk Reduction Across Sendai, Paris and the SDGs</u>	Brief	May-19
Science–Policy Interfaces – Sendai	<u>Official Statement by the Scientific and Technological Community Major Group Global Platform for Disaster Risk Reduction 2019, Geneva, Switzerland</u>	ISC Statement	May-19

Science– Policy Interfaces – New Urban Agenda	University College London–Nature Sustainability Expert Panel Report on Science and the Future of Cities	Study report	Dec-18
Science– Policy Interfaces – IPBES	Independent review of IPBES	Review report	Apr-19
Science– Policy Interfaces – SDGs	HLPF 2018 Session on Sustainable Development Goal 11 on Cities	ISC Statement	Jul-18
Domain 4	Science Systems		
Gender Equality in Science	Gender Gap in Science Project: Final report	Study report	Jan-20
Future of Scientific Publishing	Business Models and Market Structure within the Scholarly Communications Sector	Working or occasional paper	Sep-20
Future of Scientific Publishing	Opening the record of science: making scholarly publishing work for science in the digital era	Study report	Feb-21
Freedom and responsibility in science	Framing Document: Freedom and Responsibility in Science in the 21st Century: A CFRS think piece	Thinkpiece/ Op-Ed	Jul-20
Combating systemic dis- crimination in science	Statement on Combating Racism and other forms of Systemic Discrimination in Science	ISC Statement	Jun-20
COVID-19 Response			
COVID-19 Portal	Tackling Climate Change with COVID-19 Urgency, ISC Patron Mary Robinson and ISC President Daya Reddy	Thinkpiece/ Op-Ed	Apr-20
COVID-19 Portal	COVID-19: Let’s make sure we don’t learn the wrong lesson, Hackmann and Boulton	Thinkpiece/ Op-Ed	Apr-20
COVID-19 Portal	Message from Daya Reddy, ISC President, and Heide Hackmann, ISC CEO	ISC Statement	Mar-20
IIASA-ISC Platform: Bouncing Forward	Transformations within reach: Pathways to a sustainable post-COVID world. Synthesis report	Synthesis report	Jan-21
IIASA-ISC Platform: Bouncing Forward	Transformations within reach: Pathways to a sustainable post-COVID world. Enhancing Governance for Sustainability	Synthesis report	Jan-21
IIASA-ISC Platform: Bouncing Forward	Transformations within reach: Pathways to a sustainable post-COVID world. Strengthening Science Systems	Synthesis report	Jan-21
IIASA-ISC Platform: Bouncing Forward	Transformations within reach: Pathways to a sustainable post-COVID world. Resilient Food Systems	Synthesis report	Jan-21
IIASA-ISC Platform: Bouncing Forward	Transformations within reach: Pathways to a sustainable post-COVID world. Rethinking Energy Solutions	Synthesis report	Jan-21
IIASA-ISC Platform: Bouncing Forward	Future scenarios for the COVID-19 pandemic	Thinkpiece/ Op-Ed	Feb-21

APPENDIX I: CFRS OUTPUTS JULY 2018–JUNE 2021

CFRS statements

1. [Statement calling for release of researchers associated with the Persian Heritage Wildlife Foundation](#)
2. [Statement on scientific freedom in Japan](#)
3. [Statement on detention and capital sentence of Ahmedreza Djalali](#)
4. [Statement on ethical responsibilities of scientists at a time of a global threat](#)
5. [Statement on combatting racism and other forms of discrimination](#)
6. [Statement on protecting human rights and scientific freedom in Myanmar](#)
7. [Statement on protecting scientific freedom in Turkey](#)
8. [Statement on concerns for threatened scientists around the world](#)
9. [Statement of concern for scientists threatened in the context of the COVID-19 pandemic](#)

CFRS positions and thinkpieces:

10. [Framing Document: Freedom and Responsibility in Science in the 21st Century: A CFRS think piece](#)
11. [ISC position on conference and event boycotts](#)
12. [ISC position on visas and online accessibility](#)

CFRS procedures:

13. [Procedures for selecting and responding to CFRS cases](#)

CFRS blog posts:

14. [International Women's Day](#)
15. [Human Rights Day](#)
16. [International day of solidarity with threatened staff](#)
17. [Human Genome Editing](#)

APPENDIX J: COMPOSITION OF PROJECT STEERING GROUPS OR OTHER EXPERT BODIES

Note: Project steering groups/expert bodies are listed in the order of the projects as they appear in Table 1.

* = Chair of group

^G = ISC Governing Board member

Transformations to Sustainability Programme Board

Mathieu	Denis	International Science Council
Christine	Fey	Federal Ministry of Education and Research, Germany
Joël	Groeneveld	Fonds de la Recherche Scientifique, Belgium
Takanori	Hirao	Japan Science and Technology Agency
Kia	Lindroos*	University of Jyväskylä; Academy of Finland
Toon	Monbaliu	Research Foundation Flanders
Jeremy	Neathey	Economic and Social Research Council, UK
Lionel	Obadia	Agence Nationale de la Recherche, France
Maya	Rispens	Dutch Research Council
Alexandre	Roccatto	São Paulo Research Foundation
Tore	Søiland	Research Council of Norway
Stefan	Svallfors	Swedish Research Council
Maria	Uhle	National Science Foundation, USA

Transformations to Sustainability Programme – Sounding Board

Paulina	Aldunce	University of Chile
Silke	Beck	Helmholtz Centre for Environmental Research – UFZ
Shibaje	Bose	Independent
Robert	Fletcher	Wageningen University
Alison	Meston*	International Science Council
Janne	Niemi	Academy of Finland
Nathan	Oxley	University of Sussex
Maria	Uhle	National Science Foundation, USA
Jon	Walton	Future Earth

Leading Integrated Research on Agenda 2030 Programme – Scientific Advisory Committee

Samuel Babatunde	Agbola	University of Ibada
Mathieu	Denis	International Science Council
Heide	Hackmann	International Science Council
Jackie	Kado	Network of African Science Academies
Shuaib	Shuaib	Makerere University
Elvin	Nyukuri	University of Nairobi

SDG Interactions Working Group

Joseph	Alcamo	Sussex Sustainability Research Programme
Ursula	Becker	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
Peter	Bragge	Monash Sustainable Development Institute
Thomas	Breu	University of Bern
Tobias	Cabani	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
Henrik	Carlsen	Stockholm Environment Institute
Dave	Griggs	Monash Sustainable Development Institute
John	Lavis	McMaster Health Forum
Ivonne	Lobos Alva	Stockholm Environment Institute
Peter	Messerli	Wyss Academy for Nature
Mans	Nilsson	Stockholm Environment Institute
Myriam	Pham-Truffert	University of Bern
Caroline	Zimm	International Institute for Applied Systems Analysis

Global Forum of Funders – Steering Group

Roshni	Abedin	UKRI
Maggie	Gorman Velez	International Development Research Centre
Heide	Hackmann	International Science Council
AnnaMaria	Oltorp	Swedish International Development Cooperation Agency
Aldo	Stroebe	National Research Foundation, South Africa
Josh	Tewksbury	Future Earth
Maria	Uhle	National Science Foundation, USA
Albert	van Jaarsveld	International Institute for Applied Systems Analysis

Global Forum of Funders – Missions Report

Melody	Brown Burkins ^G	Dartmouth College
Anthony	Capon	Monash Sustainable Development Institute
Line	Gordon	Stockholm Resilience Centre
Peter	Messerli	Wyss Academy for Nature
Susanne C.	Moser	University of Massachusetts-Amherst
Roberto A.	Sánchez-Rodríguez	College of the Northern Border
Bob	Scholes	RIP 28 April 2021, University of the Witwatersrand

Hazard Definition and Classification Review Working Group

Chadi	Abdallah	National Council for Scientific Research, Lebanon
Jonathan	Abrahams	World Health Organization
Lucille	Angles	UNESCO
Djillali	Benouar	University of Science and Technology Houari Boumediene
Alonso	Brenes Torres	University of Costa Rica
Simon	Cox	Commonwealth Scientific and Industrial Research Organisation
James	Douris	World Meteorological Organization
Urbano	Fra Paleo	University of Extremadura
Qunli	Han	Integrated Research for Disaster Risk Reduction
John	Handmer	RMIT University
Simon	Hodson	Committee on Data of the International Science Council
Chang	Hun Choe	International Federation of Red Cross and Red Crescent Societies
Wiryia	Khim	Food and Agriculture Organization of the United Nations
Osvaldo	Luiz Leal Moraes	Brazilian Early Warning Monitoring Centre for Natural Disasters
Nick	Moody	Insurance Development Forum
Virginia	Murray*	Public Health England
Michael	Nagy	United Nations Economic Commission for Europe
James	Norris	Group on Earth Observations
Pascal	Peduzzi	University of Geneva, UN Environment
Aslam	Perwaiz	Asian Disaster Preparedness Center
Katie	Peters	Overseas Development Institute
Jack	Radisch	Organisation for Economic Co-operation and Development
Markus	Reichstein	Max Planck Institute for Biogeochemistry
John	Schneider	Global Earthquake Model Foundation
Adam	Smith	US National Oceanic and Atmospheric Administration
Claire	Souch	Insurance Development Forum
Annisa	Triyanti	Copernicus Institute of Sustainable Development, Utrecht University

Rethinking Human Development Steering Group

Pedro	Conceicao	United Nations Development Programme
Peter	Gluckman ^G	International Network for Government Science Advice
Heide	Hackmann	International Science Council
Melissa	Leach	Institute of Development Studies
Binyam Sisay	Mendis	UNESCO-International Institute for Capacity Building in Africa, Global Young Academy
Dirk	Messner	German Federal Environment Agency
Elisa	ReisG	Federal University of Rio de Janeiro
Asun	St Clair	DNV GL Group Technology and Research

Transform21 Oversight Group

Helen	Adams	Cabinet Office COP26 team
Alison	Meston	International Science Council
Joanna	Post	UNFCCC
Valentina	Rabanal	Young Earth Systems Scientists/University of Buenos Aires/Argentina Meteorological Service
Narelle	van der Wel	World Climate Research Programme
Jon	Walton	Future Earth

Open Science and UNESCO – Survey Advisory Group

Geoffrey	Boulton ^G	Professor Emeritus, University of Edinburgh
Luke	Drury	Royal Irish Academy, ALLEA
Ke	GONG	World Federation of Engineering Organizations
Heide	Hackmann	International Science Council
Peter	McGrath	InterAcademy Partnership
Teresa	Stoepler	InterAcademy Partnership

Coalition for Digital Environmental Sustainability Steering Group

Geoffrey	Boulton ^G	Professor Emeritus, University of Edinburgh
Heide	Hackmann	International Science Council
David	Jensen	United Nations Environment Programme
Dirk	Messner	German Federal Environment Agency
Robert	Opp	United Nations Development Programme
Philip	Thigo	Government of Kenya
Éliane	Ubalijoro	Future Earth, Sustainability in the Digital Age

Global Science–Policy Interfaces (Phase 2) Steering Group

Salvatore	Aricò	Intergovernmental Oceanographic Commission of UNESCO
Pearl	Dykstra ^G	Erasmus University Rotterdam
Ruben	Echeverria	International Food Policy Research Institute
Xiaolan	Fu	University of Oxford
Peter	Gluckman ^G	International Network for Government Science Advice
Maria	Ivanova	University of Massachusetts Boston
Michel	Jarraud	World Meteorological Organization
Roberto	Lenton	University of Nebraska
Diana	Mangalagiu	University of Oxford, Sciences Po
Julia	Marton Lefèvre*	Board of Trustees of Biodiversity International
Marcos	Regis da Silva	Inter-American Institute for Global Change Research
Judi	Wakhungu	Ambassador of Kenya to the French Republic, Portugal, Serbia and the Holy See

Global Science TV Review Group²

Anna-Maria	Arabia	Australian Academy of Science
Paul	Richards	Australian Academy of Science

African Open Science Platform Advisory Council

Geoffrey	Boulton ^G	Professor Emeritus, University of Edinburgh
Ogunlade	Davidson	Independent
Heide	Hackmann	International Science Council
Khotso	Mokhele	National Research Foundation, South Africa
Ismail	Serageldin	Bibliotheca Alexandrina

Future of Scientific Publishing Review Group

Pearl	Dykstra ^G	Erasmus University Rotterdam
Hazami	Habib	Academy of Sciences Malaysia
Molapo	Qhobela	National Research Foundation, South Africa
Peter	Suber	Harvard University
Sally	Wyatt	Maastricht University

Future of Scientific Publishing Scoping Group

Bianca	Amaro	La Referencia
Dominique	Babini	Latin American Council of Social Sciences
Michael	Barber	Australian Academy of Sciences
Geoffrey	Boulton ^{*G}	Professor Emeritus, University of Edinburgh
Robin	Crew	University of Pretoria
Luke	Drury	Dublin Institute for Advanced Studies
Martin	Eve	Birkbeck, University of London
Sari	Hanafi	American University of Beirut
Mary	Lee Kennedy	Association of Research Libraries
Nathalie	Lemarchand	Université de Paris 8 Vincennes–St-Denis
Anna	Mauranen	University of Helsinki
Ravi	Murugesan	INASP/AuthorAid
Joseph	Mwelwa	Joint Minds Consult
Francois	Robida	French Geological Survey
Peter	Strickland	International Union of Crystallography
Paul	Uhlir	Independent
Xiaolin	ZHANG	National Science Library, Chinese Academy of Sciences

² Global Science TV has a Digital Oversight Committee that is managed by the Australian Academy. The role of the committee is to verify the science in each of the episodes. Each episode has three reviewers appropriate to the topic of the episode.

Future of Scientific Publishing Steering Group

Abrizah	Abdullah	University of Malaya
Dominique	Babini	Latin American Council of Social Sciences
Michael	Barber	Australian Academy of Sciences
Ahmed	Bawa	Universities South Africa
Geoffrey	Boulton ^{*G}	Professor Emeritus, University of Edinburgh
Amy	Brand	MIT Press
Mathieu	Denis	International Science Council
Luke	Drury	Trinity College Dublin
Rupert	Gatti	University of Cambridge
Heather	Joseph	Scholarly Publishing and Academic Resources Coalition
Joy	Owango	University of Nairobi
Xiaolin	ZHANG	National Science Library, Chinese Academy of Sciences

Research Evaluation Scoping Group

Robin	Crewe	University of Pretoria
Sarah	De Rijcke	Leiden University
Carlo	D'Ippoliti	Sapienza University of Rome
Shaheen	Motala-Timol	Tertiary Education Commission, Mauritius
Noorsaadah	Rahman	University of Malaya
Laura	Rovelli	Latin American Council of Social Sciences
David	Vaux	University of Melbourne
Koen	Vermeir [*]	French National Centre for Scientific Research (CNRS), University of Paris
Yupeng	YAO	National Natural Science Foundation of China

Research Evaluation Steering Group

Anindita	Bhadra	Indian Institute of Science Education and Research
Geoffrey	Boulton ^G	Professor Emeritus, University of Edinburgh
Richard	Catlow	University College London
Mathieu	Denis	International Science Council
Peter	Gluckman ^G	International Network for Government Science Advice
Heide	Hackmann	International Science Council
Daya	Reddy ^G	University of Cape Town
Beate	Wagner	Global Young Academy

Refugee and Displaced Scientists Ad hoc Expert Group

Roberta	Altin	University of Trieste
Tonya	Blowers	Organization for Women in Science for the Developing World
Eqbal	Dauqan	University of Oslo
Aziza	Dessalegn	Ethiopian Ministry of Foreign Affairs
Patricia	Evers	National Academies of Sciences
Viviana	Fernandez	Scholars at Risk
Marion	Gues	PAUSE, France
Karly	Kehoe	Saint Mary's University
Feras	Kharrat	University of Trieste
James	Knig	Scholar Rescue Fund
Liliana	Pasecinic	Joint Research Centre, European Commission
Robin	Perutz	Royal Society, UK
Karina	Sarmiento	Pan-American Development Foundation
Manal	Stulgaitis	UN High Commission for Refugees
Radwan	Ziadeh	Damascus Centre for Human Rights Studies in Syria

Freedom and Responsibility in Science in the 21st Century – Working Group

Quarraisha	Abdool Karim	Government of South Africa
Richard	Bedford	University of Waikato, Auckland University of Technology
Jean-Gabriel	Ganascia	Sorbonne University
Ke	GONG	World Federation of Engineering Organizations
Robin	Grimes	Imperial College London
Willem	Halfman	Radboud University
Indira	Nath	Government of India
Cheryl	Praeger	University of Western Australia
Hans	Thybo	Istanbul Technical University; University of Oslo
Koen	Vermeir	French National Centre for Scientific Research (CNRS), University of Paris

ISC-Nature Podcasts on Diversity in Science

Michael	Sulu	University College London
Melody	Brown Burkins ^a	Dartmouth College
Abhijit	Majumder	Indian Institute of Technology Bombay
Alison	Meston	International Science Council
Vanessa	Schweizer	University of Waterloo

Conduct of Scientists Working in Emergencies – Steering Group

Anne	Bardsley	Auckland University
Robin	Grimes	Imperial College London
Matthias	Kaiser	University of Bergen
Roger	Ridley	Royal Society of New Zealand

Conduct of Scientists Working in Emergencies – Working Group

Tateo	Arimoto	National Graduate Institute for Policy Studies
Nisreen	DaifAllah AL-Hmoud	Royal Scientific Society, Jordan
Tom	De Groeve	Joint Research Centre, European Commission
Mohsen	Ghafory-Ashtiany	International Institute of Earthquake Engineering and Seismology
Alisa	Holloway	Stellenbosch University
Lori	Peek	University of Colorado, Boulder

Covid-19 Global Science Portal – Ad hoc Expert Group

Geoffrey	Boulton ^G	Professor Emeritus, University of Edinburgh
Pearl	Dykstra ^G	Erasmus University Rotterdam
Elisa	Reis ^G	Federal University of Rio de Janeiro

IIASA-ISC Consultative Science Platform – Group of chairs of consultations

Lidia	Brito	UNESCO LAC
Hans Olaf	Ibrekk	Norwegian Ministry of Foreign Affairs
Adebayo	Olukoshi	Formerly at International Institute for Democracy and Electoral Assistance (IDEA)
Ismail	Serageldin	Bibliotheca Alexandrina

IIASA-ISC Consultative Science Platform – International Advisory Board

Peter	Bakker	World Business Council for Sustainable Development
Preety	Bhandari	UN Development Bank
Peter	Gluckman ^G	International Network for Government Science Advice
Heide	Hackmann	International Science Council
Andrea	Hinwood	United Nations Environment Programme
Naoko	Ishii	University of Tokyo
Junald	Kamal Ahmad	World Bank
Ban	Ki-Moon	Ban Ki-Moon Centre for Global Citizens
Jian	Liu	United Nations Environment Programme
Carlos	Nobre	University of Sao Paulo
Daya	ReddyG	University of Cape Town
Mary	Robinson	The Elders
Achim	Steiner	United Nations Development Programme
Albert	van Jaarsveld	International Institute for Applied Systems Analysis

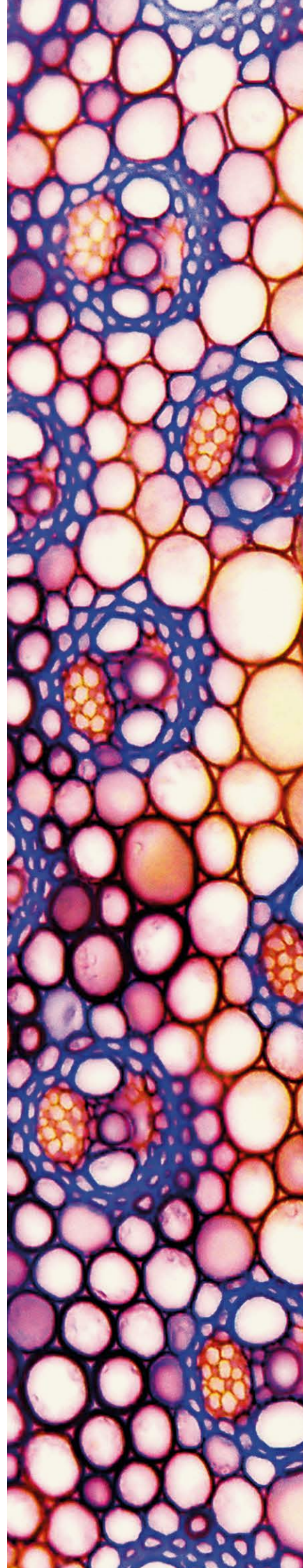
Covid-19 Outcomes Scenarios – Oversight Panel

Salim	Abdool Karim	Centre for the AIDS programme of research in South Africa (CAPRISA)
Geoffrey	Boulton ^G	Professor Emeritus, University of Edinburgh
Craig	Calhoun	Arizona State University
George	Gao	Chinese Center for Disease Control and Prevention
Peter	Gluckman ^G	International Network for Government Science Advice
Ian	Goldin	University of Oxford
Eric	Goosby	Government Covid Advisory Board/UN Special Envoy on Tuberculosis
Elizabeth	Jellin	National Scientific and Technical Research Council of Argentina
Chor Pharn	Lee	Centre for Strategic Futures, Singapore
Mami	Mitzutori	United Nations Office for Disaster Risk Reduction
Peter	Piot	London School of Hygiene and Tropical Medicine
Lucia	Reich	Copenhagen Business School/University of Cambridge
Aminata	Sall Diallo	University Cheikh Anta Diop of Dakar
Ismail	Serageldin	Independent
Anjana	Singh	Tribhuvan University
David	Skegg	University of Otago
David	Spiegelhalter	University of Cambridge
Claudio	Struchiner	Oswaldo Cruz Foundation
Soumya	Swaminthan	World Health Organization
Christiane	Wopen	University of Cologne

APPENDIX K: OVERVIEW OF FORMAL AGREEMENTS

Object of agreement	Parties	Scope	Date of entry into effect	Duration/end date
World Data System International Technology Office	ISC, University of Victoria, Ocean Networks Canada Society	Non-binding Memorandum of Understanding concerning collaboration to host the ISCU World Data System International Technology Office and its director and staff. Renewal in 2021 until 2024.	01-Apr-18	2024
Collaboration on 'Implementing urban and territorial planning and policy for improved health and wellbeing'	ISC, UN Human Settlements Programme and the Institute of Urban Environment of the Chinese Academy of Sciences	Framework for collaboration between UN-Habitat, ISC and IUE on 'Implementing urban and territorial planning and policy for improved health and wellbeing'.	01-Jun-19	2024
ISC-UNDRR partnership	ISC, UNDRR	UNDRR-ISC partnership agreement. Signed in 2019 for two years; renewed March 2021 until end of 2023.	03-Jun-19	2023
Global Research Programme on Inequality (GRIP)	ISC, University of Bergen	Agreement between the International Science Council and the University of Bergen about the Global Research Programme on Inequality (GRIP) (formerly "The Comparative Research Programme on Poverty [CROP]") for the period October 2019 to December 2021.	15-Sep-19	Dec-21
UN Decade of Ocean Science for Sustainable Development (2021-2030)	ISC, the Intergovernmental Oceanographic Commission of UNESCO	Cooperation in the framework of the UN Decade of Ocean Science for Sustainable Development (2021–2030). Initial period of five years, renewed automatically.	11-Feb-20	2025
Committee on Freedom and Responsibility in Science	ISC, Ministry of Business, Innovation and Employment, on behalf of the New Zealand Government	Support to the International Science Council's work on freedom and responsibility in research through financial support for the Committee on Freedom and Responsibility in Research. Five-year duration.	01-Jun-20	2025
Grant to International Network for Government Science Advice	ISC, INGSA, IDRC	Three-year IDRC grant to ISC to undertake project with INGSA on 'Generating Knowledge and Building Networks for Science Advice in Emergencies'.	01-Jul-20	2023
Sustainability in the Digital Age partnership	ISC, Sustainability in the Digital Age	Non-binding agreement between Sustainability in the Digital Age (SDA) and ISC on cooperation at the intersection of digital technologies and sustainability.	29-Oct-20	2025

IAP-ISC cooperation framework	ISC, InterAcademy Partnership	Memorandum of Understanding: Working towards strengthening cooperation and collaboration. To be reviewed every two years.	01-Nov-20	2022
African Open Science Platform	ISC, NRF	Memorandum of Agreement for the African Open Science Platform. Five-year duration.	01-Dec-20	Dec-25
Science International	ISC (ICSU and ISSC), IAP, TWAS	Collaboration agreement. Indefinite, but to be renewed every three years.	May-17	Indefinite
BBC StoryWorks partnership	ISC, BBC StoryWorks	BBC Global News Production and Publication Agreement. BBC Storyworks has been commissioned by the ISC to create and produce a webpage which will feature content for the ISC, selected member organizations and other content partners, such as universities.	Dec-20	Dec-21
World Data System International Programme Office	ISC, Oak Ridge Institute at the University of Tennessee	Memorandum of Understanding on the hosting of the WDS International Programme Office at the Oak Ridge Institute. Five-year duration.	Apr-21	Apr-26





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