

**SCIENCES FOR SUSTAINABILITY: FROM THE
INTERNATIONAL YEAR OF BASIC SCIENCES FOR
SUSTAINABLE DEVELOPMENT IN 2022/2023, TO
THE INTERNATIONAL DECADE OF (ALL) SCIENCES
FOR SUSTAINABLE DEVELOPMENT 2024 - 2033
PROCLAIMED BY UN AND UNDER THE AUSPICES
OF UNESCO**

**MICHEL SPIRO
PRESIDENT OF IUPAP
CHAIR OF THE
INTERNATIONAL YEAR OF BASIC SCIENCES
FOR SUSTAINABLE DEVELOPMENT IN 2022/2023 (IYBSSD)
[HTTPS://WWW.IYBSSD2022.ORG/EN/HOME/](https://www.iybssd2022.org/en/home/)**



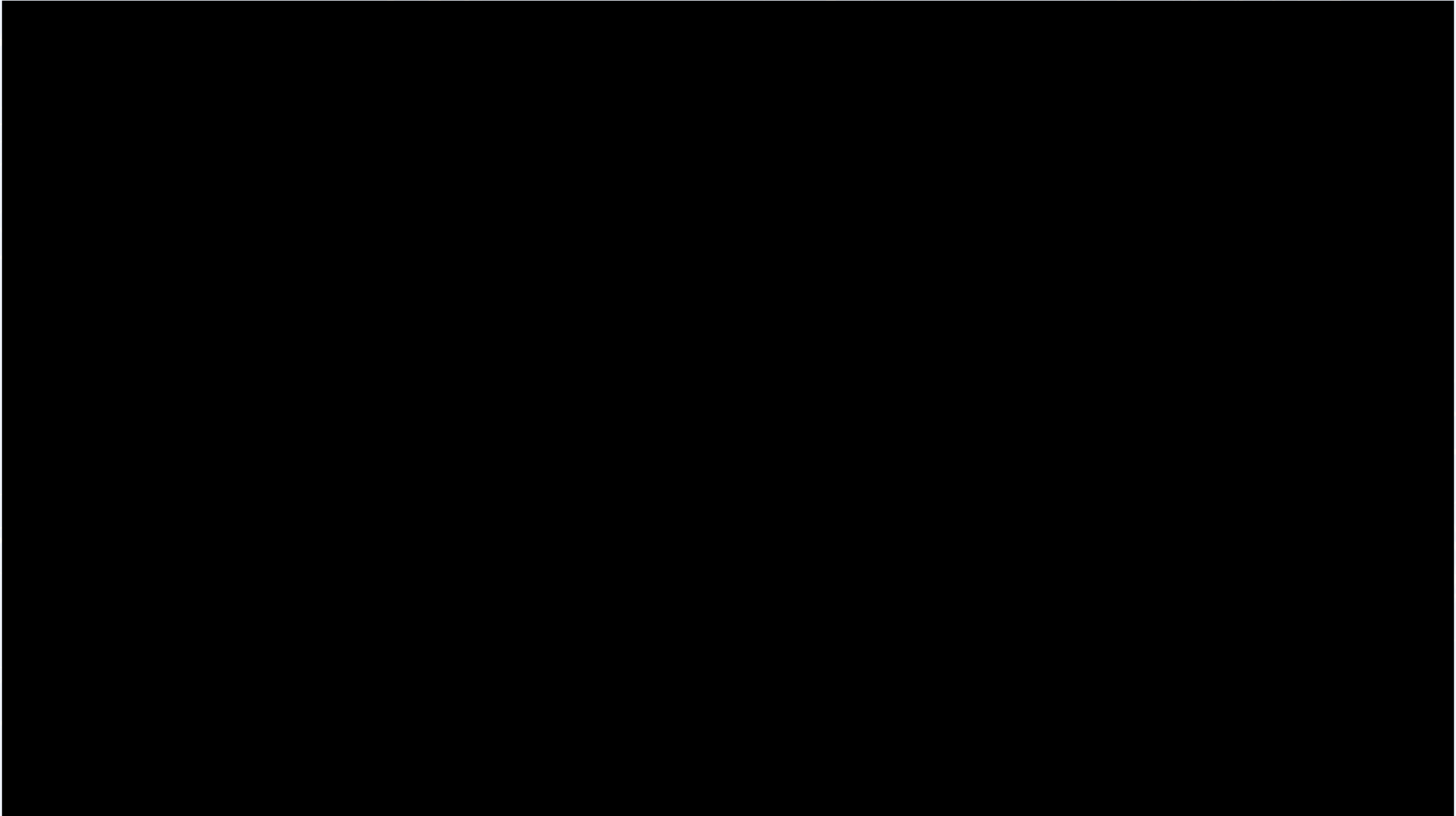
INTERNATIONAL YEAR OF BASIC SCIENCES FOR SUSTAINABLE DEVELOPMENT IN 2022/2023, UNDER THE AUSPICES OF UNESCO

**PROCLAIMED BY THE UNITED NATIONS GENERAL ASSEMBLY ON DECEMBER 2ND, 2021
OPENING JULY 8TH, 2022 AT UNESCO, CLOSING DECEMBER 15TH, 2023 AT CERN**

**RESOLUTION BROUGHT UP BY HONDURAS WITH THE SUPPORT OF ARMENIA, AZERBAIJAN,
BAHRAIN, BOLIVIA, BRASIL, BURKINA FASO, CHAD, CHILE, COLOMBIA, CUBA, DOMINICAN
REPUBLIC, ECUADOR, EL SALVADOR, FIJI, GEORGIA, GUATEMALA, INDIA, INDONESIA, ISRAEL,
JAPAN, JORDAN, KYRGYZSTAN, MALAWI, NICARAGUA, PANAMA, PARAGUAY, PERU,
PHILIPPINES, QATAR, RUSSIAN FEDERATION, SAUDI ARABIA, SERBIA, SPAIN, SOUTH AFRICA,
THAILAND, VIETNAM**

[HTTPS://WWW.IYBSSD2022.ORG/EN/HOME/](https://www.iybssd2022.org/en/home/)

2022/2023



RATIONALE

- CURIOSITY-DRIVEN SCIENCES CONSTRUCT THE POOL OF KNOWLEDGE WHICH FUTURE GENERATIONS WILL USE FOR THEIR DEVELOPMENT
- BASIC SCIENCES ARE NOT ALWAYS AND EVERYWHERE CONSIDERED AS THEY DESERVE, IN THE DISCUSSIONS CONCERNING THE SOCIETAL, ENVIRONMENTAL AND ECONOMIC DEVELOPMENT
- CURIOSITY-DRIVEN SCIENCES RE-ENCHANT OUR WORLD AND MAKE IT WORTH TO BE SUSTAINABLE

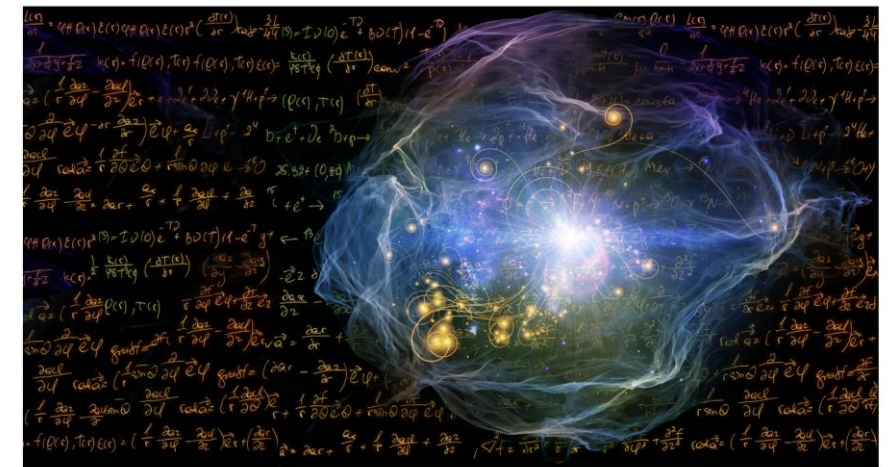
- SERENDIPITY PLAYS A ROLE!



- BASIC SCIENCES EXPLORE THE SOUL OF THE UNIVERSE!!

Opening Ceremony

International Year of Basic Sciences for Sustainable Development





**THE EARTH-HUMANITY
COALITION**



FROM IYBSSD TO IDSSD

**ALTHOUGH ESSENTIAL, BASIC SCIENCES ARE NOT ENOUGH
ALL SCIENCES AND ALL KNOWLEDGE ARE NEEDED FOR EQUITABLE
WELLBEING ON A HEALTHY PLANET**

**ENABLING THE INTERNATIONAL DECADE OF SCIENCES
FOR SUSTAINABLE DEVELOPMENT 2024-2033 (IDSSD)**

In collaboration with



2024 • 2033
International Decade of
Sciences for Sustainable
Development

UNITED NATIONS RESOLUTION

THE LANGUAGE AND AMBITIONS OF THE UN RESOLUTION DECLARING THE INTERNATIONAL DECADE FOR SUSTAINABLE DEVELOPMENT ARE TELLING OF THE PRIORITIES BEING EMBRACED AND PROMOTED BY THE EARTH- HUMANITY COALITION

Acknowledging that humanity is exposed to complex challenges, and that the full implementation of the 2030 Agenda for Sustainable Development in all its dimensions requires a more effective and inclusive approach based on synergistic cooperation of all sciences – basic and applied sciences as well as social and human sciences, including traditional knowledge – enabling the development of technology, innovation and education,

Emphasizing that the evidence-based methodologies and the models of operation and collaboration used in research can support policymakers in finding adequate responses to the present and future complex challenges, and that open science can help in promoting and strengthening international cooperation,

Recognizing that developing countries face specific challenges in accessing new sciences and technologies, stressing the need to bridge the divides within and between countries, and highlighting the importance of financing and capacity-building,

1. *Decides* to proclaim the period 2024–2033 the International Decade of Sciences for Sustainable Development, within existing structures and available resources, to represent a unique opportunity for humanity to use the critical role that sciences play in the pursuit of sustainable development in its three dimensions as one

United Nations

A/RES/77/326



General Assembly

Distr.: General
1 September 2023

Seventy-seventh session
Agenda item 13

Integrated and coordinated implementation of and follow-up
to the outcomes of the major United Nations conferences and
summits in the economic, social and related fields

**Resolution adopted by the General Assembly
on 25 August 2023**

[without reference to a Main Committee (A/77/L.100)]

77/326. International Decade of Sciences for Sustainable Development,
2024–2033

ABOUT THE EARTH-HUMANITY COALITION

- A global bottom-up network to connect and mobilize all kinds of organizations and transdisciplinary hubs worldwide (academic and non academic)
- Fostering transformative action at multiple scales (from local to global) and leveraging existing efforts, with dynamism, agility, and effectiveness
- Partnering and complementing with UNESCO, ISC and other organizations to achieve the ambitious goals of the IDSSD

In collaboration with





AMBITIONS

INTEGRATED KNOWLEDGE MOBILIZATION

- Collaborate across all sciences
- Including traditional & indigenous knowledge
- With a focus on sustainability driven by equity and wellbeing for all on healthy territories (regenerative development)

REIMAGINING THE ROLE OF SCIENCE

- Enhance science's responsiveness to humanity's immediate and future needs
- Improve integration with governance and policymaking.

TRANSFORMATIVE IMPACT GOALS

- Reframe processes of research and innovation, and the science-society nexus



AMBITIONS

BRIDGING DIVIDES

- Leverage sciences and humanities to bridge cultural and national divides, promoting global equitable wellbeing

EQUITABLE KNOWLEDGE CREATION

- Address equity barriers within processes of knowledge creation

STRATEGIC OUTCOME FOR 2033

- Sciences and society much better equipped to master existential threats and achieve positive societal transformations



CREATING THE CONDITIONS FOR TRANSFORMATIVE CHANGE

GOALS FOR A TRANSFORMATIVE DECADE

Co-create the Web of Earth-Humanity Sciences:

- Establish a global network of transdisciplinary hubs
- Promote transformative collaboration across cultures and disciplines
- Extend Big Science's spirit of intercultural bridges and peace

Support a new culture of wellbeing:

- Embrace science and wisdom for collective responsibility and creativity
- Redefine human development within Earth's boundaries
- View Earth as a living whole, emphasizing unity and interdependence

Formulate critical questions for equitable wellbeing:

- Use diverse knowledge sources to address existential challenges





SHAPING THE FUTURE OF RESEARCH, INNOVATION, AND DEVELOPMENT

STRATEGIC GOALS FOR SUSTAINABLE DEVELOPMENT

Reframe research and funding agendas:

- Align public and private sector agendas with the novel role of sciences
- Foster integrative approaches in research, innovation, and peace initiatives

Conceive practical instruments for sustainable transformation:

- Collaborate with all societal actors to navigate sustainable development
- Enable sciences to serve societal needs effectively

Co-design organizational structures to support IDSSD:

- Build the necessary processes and structures for the Decade's success
- Ensure long-term and significant impact



PHASES OF THE EARTH-HUMANITY COALITION

ACTIVATION (2 YEARS)

- Engage diverse actors and initiate key activities
- Funding up to €1M/year with a small, effective team

MOBILIZATION (3 YEARS)

- Expand scope and capacity, involving large communities around the world
- Funding: €5-10M/year with expanded personnel

EXPANSION AND CONSOLIDATION (5 YEARS)

- Test and grow integrated science models for global impact
- Funding: Expand budget to influence billions in funding

ORGANIZATIONAL LANDSCAPE OF EHC

Starting point:

Initiated by the partnership of IYBSSD and coordinated by IUPAP (2024), expanding to a broader coalition with all disciplines and societal actors

Target:

An appropriate "ecosystem" for representation, execution, governance, and accountability in partnership with UNESCO, prioritizing inclusion and diversity





ACTION PLAN 2024 (DONE)

Formation of the Steering Committee:

- Finalize foundational documents
- Support early stages of the Coalition

Inaugurate the EHC with the General Assembly on 16th April 2024

Designate the Operational Host for 2024: IUPAP

Public image and communication:

- coordinate with UNESCO on general communication for the Decade
- Develop the Coalition's logo, website, and public content

Plan of Activities for 2024-2025:

- Identify and set up the Working Threads
- Design and start implementing the EHC Work Programme





ACTION PLAN 2024 (IN PROGRESS)

Funding:

- Secure financial contributions to reach a budget around €0,5 million from members and partners (public and private)

Expand the Membership:

- Organizations representing disciplines across the whole space of human knowledge
- Institutions already embedded in transdisciplinary science for sustainability, especially at local/national levels
- All kinds of organizations supporting the EHC vision

Partnerships for resource mobilization:

- Establish alliances to support the Coalition's goals and activities

Co-create the key elements for 2025 onwards:

- Refined version of the Charter
- Design organizational processes and structures

EHC ADDING VALUE THROUGH THE WORKING THREADS

Working Thread	Status	Team / Actions
1) Activate the Web of Earth-Humanity Sciences (WEHS) , a worldwide network of thousands of hubs	Active	Luc, Raad, all Steering Committee, others? Recruiting of new members
2) Explore Frontier Concepts at the intersection of multiple epistemologies to unveil the potential of deep transdisciplinary thinking for sustainability	Not active yet	Proposal by Lesley could be a start
3) Promote the Reframing of Human Development and Well-Being , to support the emergence of a new culture of well-being, grounded on leading edge science	Not initiated	CoR has significant capacities, also in connection with WEAll
4) Create WGTHS, the Worldwide Grid of Transdisciplinary Hubs for Sustainability	Active	Michel, Jens, others? Proposal to CERN on Grid MoU Belmont for open access
5) Develop Sciences for Planetary Reconciliation to overcome fractures created by geopolitical clashes and all kinds of violent conflicts	First steps	Carlos, Barbora Bruant Gulejova Rolf Heuer 1st conversation in August

EHC ADDING VALUE THROUGH THE WORKING THREADS

Working Thread	Status	Team / Actions
6) Reframe the Interfaces of Science, Policy, Innovation and Society to make science-technology-society interactions evolve to wide participation and co-creation	Initiating	Carlos, Patrick Caron Montpellier Process
7) Promote Transdisciplinary Practices in Education	Not active	BBG interested in helping
8) Establish and Co-Construct the Key Processes , to support the effective implementation of the goals of EHC	Not explicitly addressed	Luc, Raad, all Steering Committee Setting a roadmap is becoming urgent
9) Establish the EHC High-Level Support Committee , to mobilize prestigious personalities and organizations from all sectors in support of the goals of EHC and IDSSD	First steps	Nebojsa, Carlos, Hans d'Orville Proposal by Hans could be a good starting point Connections with #10
10) Reframe Scientific Agendas and Funding , to reflect and accelerate the role of sciences called by IDSSD	First steps	Carlos, Ruth Morgan, others? Public comm (op-eds...)? Start discussions with Belmont, Future Earth, ISC?

IDENTIFYING THE VALUE ADD OF EHC

Cooperative and open attitude and work practices

Holistic knowledge integration

Global bottom-up network of transdisciplinary hubs

Mobilizing infrastructures for sustainability at all scales

Focus on equity, just futures and planetary reconciliation at all territorial scales

Ambition to reframe science-policy nexus and R&I agendas



Working for resonance

- Partnering with **UNESCO** and ISC, to ensure the synergy and complementarity with the wider IDSSD agenda
- Partnering with The Club of Rome, the UNESCO-MOST BRIDGES Coalition and the World Academy of Art and Science to promote integrated knowledge production and action for transformative change at local community and regional levels

SOME EVENTS...

21-22 APRIL

6th African Regional Science, Technology & Innovation Forum (ARSTIF),
Addis Ababa – Co-organized by UNESCO

25 APRIL

IDSSD program @ Zhongguancun Forum, Beijing – Organized by UNESCO

10-15 JUNE

SRI Sustainability Research & Innovation 2024, Helsinki and Espoo –
Organized by Future Earth & Belmont Forum

20-23 NOVEMBER 2024

World Science Forum

22-25 SEPTEMBER 2025

World Conference on Science and Art for Sustainability, Belgrade –
Organized by WAAS





THE EARTH-HUMANITY
COALITION



CURRENT EHC STEERING GROUP:

- **Michel Spiro**, President of IUPAP and Chair of the Steering Committee of IYBSSD, France
- **Carlos Alvarez Pereira**, The Club of Rome, Spain
- **Lesley Green**, University of Cape Town, South Africa
- **Steven Hartman**, UNESCO-MOST BRIDGES Coalition, Sweden
- **Nebojša Nešković**, The World Academy of Art & Science, Serbia
- **Marian Nkansah**, Kwame Nkrumah University of Science and Technology, Ghana
- **Prajval Shastri**, Raman Research Institute, India
- **Luc Allemand**, Coordinator, The Earth-Humanity Coalition
- **Raad Sharar**, Program Coordinator, The Club of Rome



In collaboration with





THANK
YOU