

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

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PAST 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 AND HOSTED BY IUPAP

**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**

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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

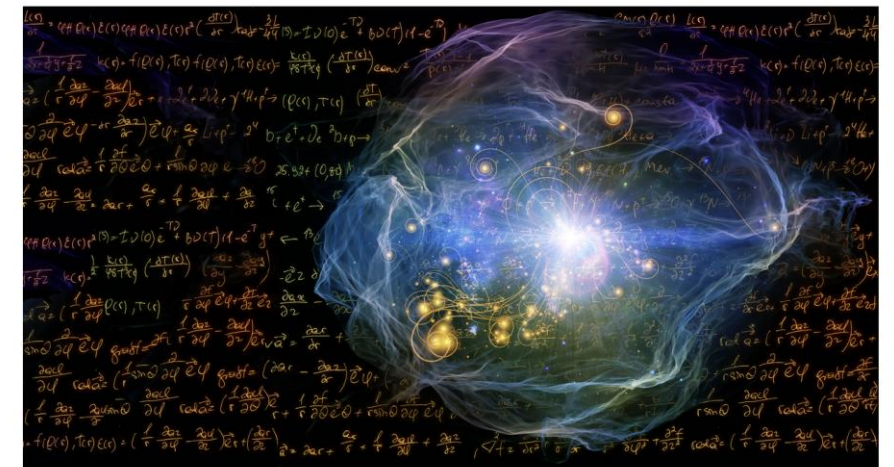
- SERENDIPITY PLAYS A ROLE!



- 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
NOT ENOUGH**

**ALL SCIENCES AND ALL KNOWLEDGE ARE
NEEDED FOR EQUITABLE WELLBEING ON A
HEALTHY PLANET**

ENABLING THE INTERNATIONAL DECADE OF SCIENCES

In collaboration with



2024 - 2033
International Decade of
Sciences for Sustainable
Development

UNITED NATIONS RESOLUTION IDSSD

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



THE EARTH – HUMANITY AMBITIONS

INTEGRATED KNOWLEDGE MOBILIZATION

- Collaborate across all sciences
- Including traditional & indigenous knowledge (transdisciplinarity/co-constructed/participative science)
- With a focus on sustainability driven by equity and wellbeing for all on healthy territories (regenerative development) → Integrated SDGs approach and more ambitious

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: **interconnect science and society in a worldwide web/grid of co-constructed initiatives for well-being on a healthy planet**

ABOUT THE EARTH-HUMANITY COALITION

- A global bottom-up network to connect and mobilize all kinds of organizations (about 50 now) 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



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 for sustainable development
- Establish Zenodo open repository(ies) for transdisciplinary hubs (MoU with Belmont Forum). Help of CERN.
- Promote transformative collaboration across cultures and disciplines
- Extend Big Science's and International Unions 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



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

IUPAP
EHC
IDSSD

ROLE OF IUPAP AND WG 21 IN EHC AND IDSSD

IUPAP IS HOSTING FOR THE MOMENT THE EARTH-HUMANITY COALITION LIKE IT DID FOR IYBSSD

IUPAP IS LEADING THE EFFORT TO USE FOR TRANSDISCIPLINARY RESEARCHES ON SUSTAINABLE DEVELOPMENT, ZENODO , A CERN NOW WELL KNOWN, OPEN PLATFORM REPOSITORY OF ALL SORT OF ARTEFACTS (PAPERS, DATA, NARRATIVES, VIDEOS, SOFTWARE...), INTENSIVELY USED WORLDWIDE FOR THE HIGGS BOSON DISCOVERY AND STUDY, INTENSIVELY USED ALSO FOR COVID19

WE HAVE AN MOU WITH THE BELMONT FORUM (WORLDWIDE FORUM OF FUNDING AGENCIES FOR TRANSDISCIPLINARY RESEARCH FOR SUSTAINABLE DEVELOPMENT) TO USE ZENODO IN ALL THEIR ACTIVITIES

WE NEED TO HAVE MORE PARTNERS, WORLDWIDE TO INCREASE THE VISIBILITY OF THIS INITIATIVE, TO DEVELOP ZENODO SO THAT IT BECOMES A WORLDWIDE GRID OF ZENODO PLATFORMS DEPLOYED (EACH PLACE BEING RESPONSIBLE FOR ITS OWN ZENODO PLATFORM). JOINT TASK BY EHC, CERN, IUPAP/WG21?

THIS ZENODO INITIATIVE WAS STARTED BY PHYSICS

**WG21 RESONATES WITH EHC AND MORE GENERALLY WITH IDSSD.
WG21/IUPAP COULD BE LEADING THE EFFORTS OF THE UNIONS WITHIN
ISC AND WITHIN IDSSD**



zenodo



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