



ISTIC
INTERNATIONAL SCIENCE, TECHNOLOGY AND
INNOVATION CENTRE FOR SOUTH-SOUTH
COOPERATION UNDER THE AUSPICES OF UNESCO



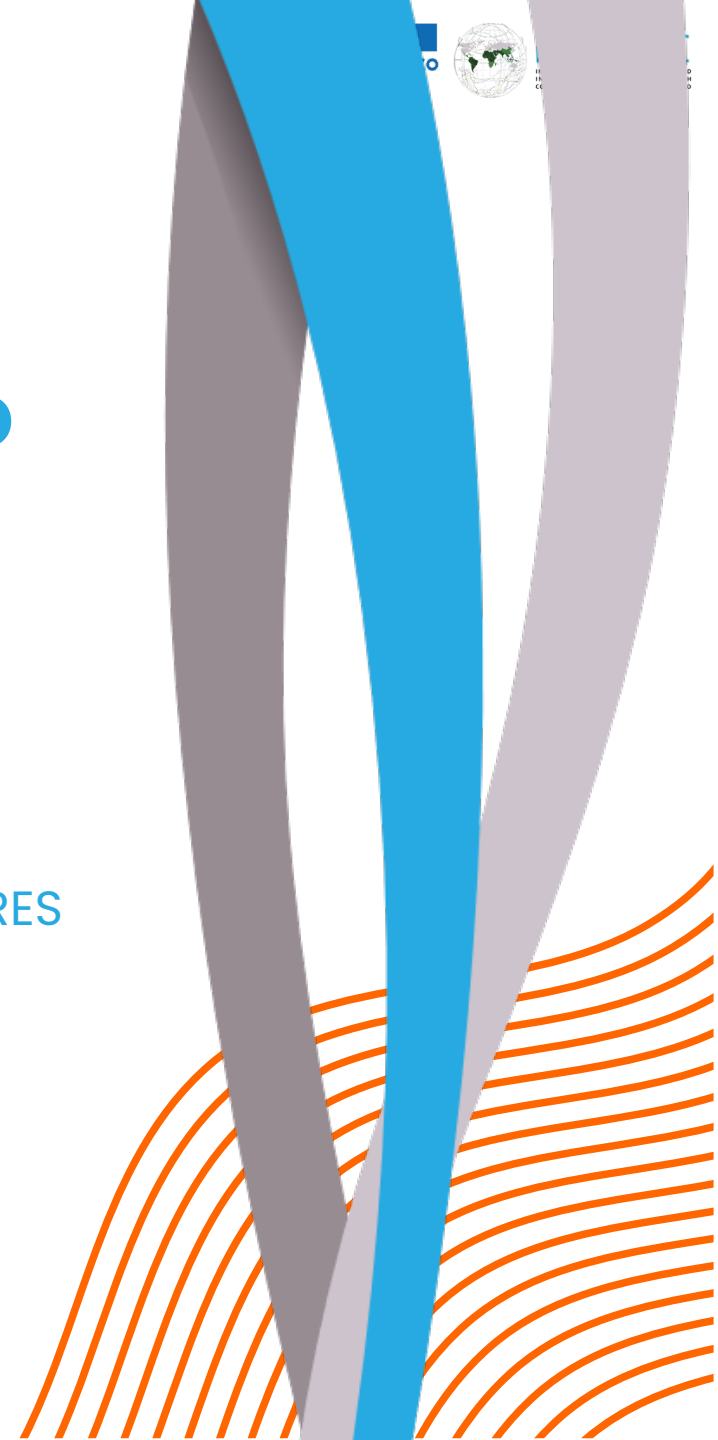
INTERNATIONAL SCIENCE, TECHNOLOGY AND INNOVATION CENTRE FOR SOUTH – SOUTH COOPERATION (ISTIC) UNDER THE AUSPICES OF UNESCO

INTERNATIONAL SYMPOSIUM OF THE CATEGORY 2 INSTITUTES AND CENTRES
UNDER THE AUSPICES OF UNESCO
IN THE FIELD OF NATURAL SCIENCES
15 – 17 May 2024

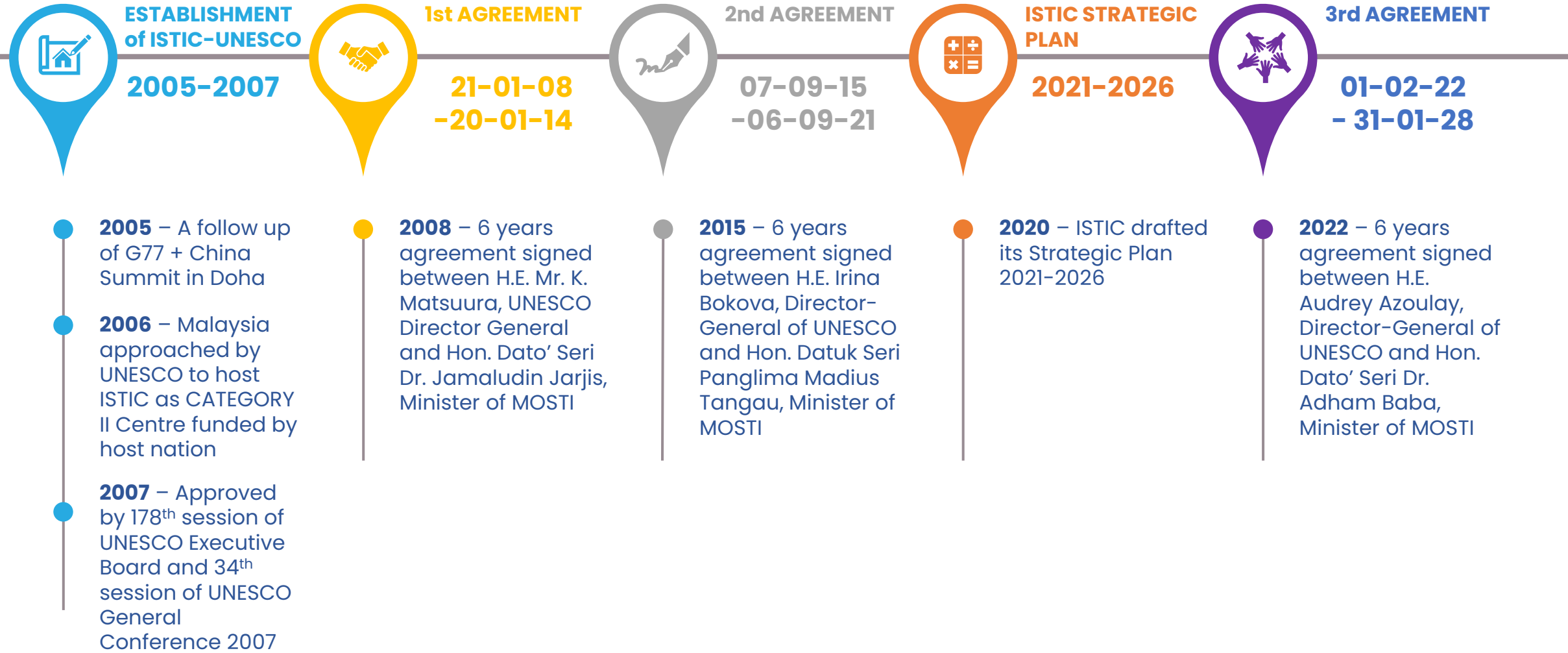
Sharizad Dahlan
Director, ISTIC



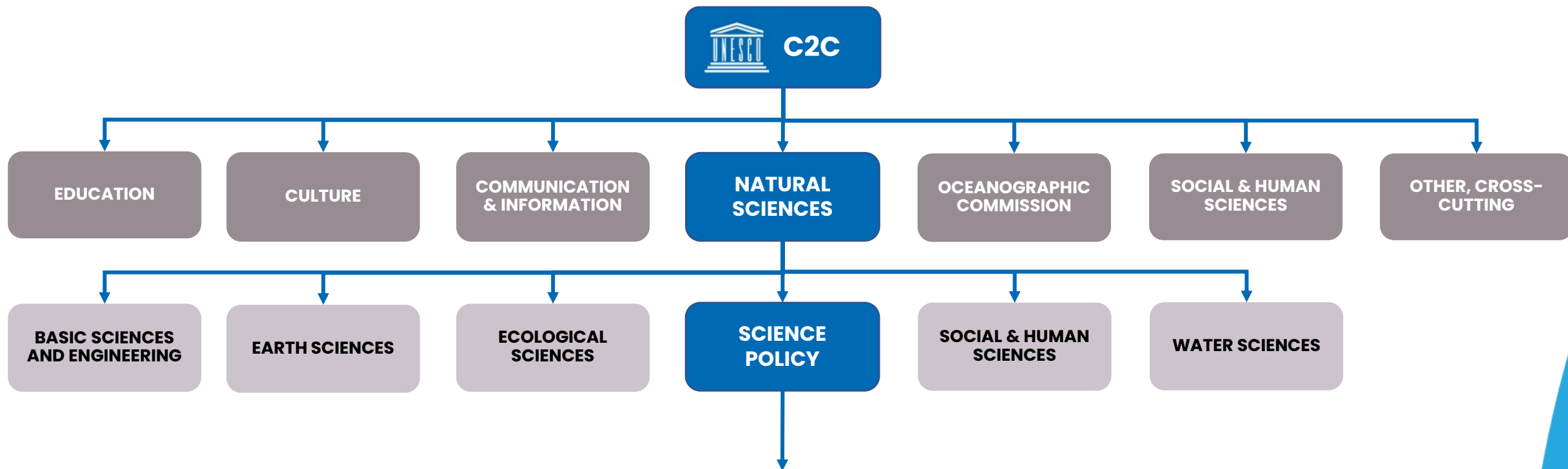
www.istic-unesco.org




Establishment of ISTIC



UNESCO CATEGORY 2 CENTRES UNDER DOMAINS OF COMPETENCE



South-South Cooperation

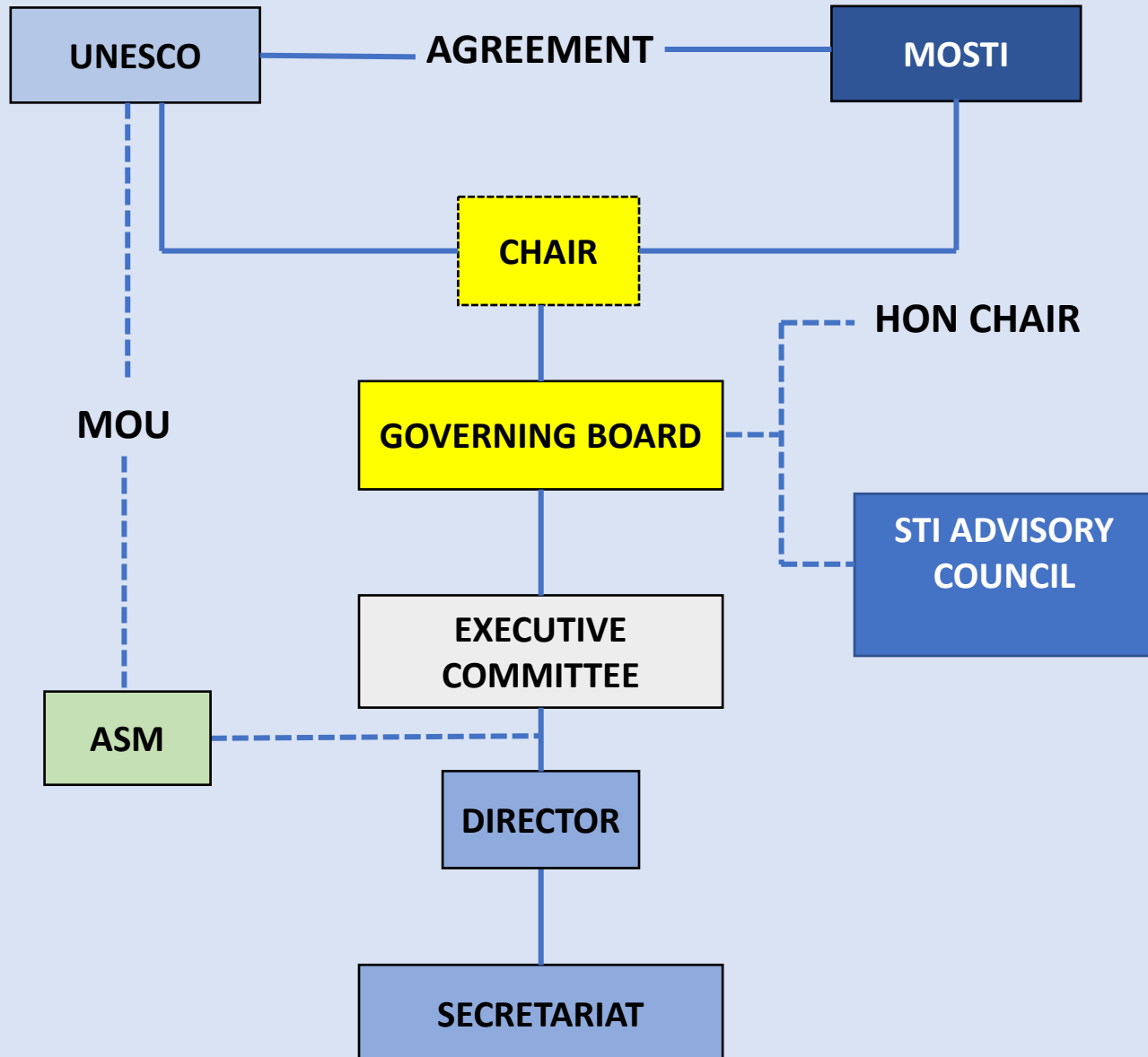


**The only UNESCO Category 2
Centre established focusing on
South-South Cooperation**

South-South cooperation is a **manifestation of solidarity** among peoples and countries of the South that **contributes to their national well-being**, their **national and collective self-reliance** and the attainment of internationally agreed development goals, including the 2030 Agenda for Sustainable Development.

The South-South Cooperation agenda and South-South cooperation initiatives must be determined by the countries of the South, guided by the principles of **respect for national sovereignty, national ownership** and **independence, equality, non-conditionality, non-interference** in domestic affairs and **mutual benefit**.

ISTIC GOVERNANCE



GOVERNING BOARD

1. A Chairperson nominated by the Minister of Science, Technology and Innovation, Malaysia on behalf of the Government of Malaysia.
2. Secretary General of MOSTI
3. Representative of the Director-General of UNESCO
4. Members representing UNESCO Member States (10 members)

EXCO

1. Chairperson of the Governing Board as Chairperson;
2. The Under Secretary of International Division, MOSTI representing **MOSTI** Secretary General;
3. The Vice President of the **Academy of Sciences Malaysia**;
4. A Representative of **UNESCO**;
5. The Director of the Centre as Secretary and non-voting member.

SAC

STI Advisory Council (10 members) provides the GB with technical advice for planning, execution, review and monitoring of the programmes of the Centre.

ASM

Host entity of the Centre to undertake the legal capacity involving financial matters and necessary means for the Centre's functions.

ISTIC GOVERNING BOARD 2022 – 2024



Dr Irina Bokova
Former UNESCO Director-General
Patron



Prof ChM Dr Mohd Basyaruddin Abdul Rahman
FASc, FMIC, FRSC, FIAAM
Chair



Prof Dr Lidia Arthur Brito
UNESCO Assistant Director-
General for Natural Sciences



Datuk Ts. Dr. Haji Aminuddin bin Hassim
Secretary General
Ministry of Science, Technology and Innovation
(MOSTI)



Academician Dato' Ir Dr Lee Yee Cheong
FASc
Honorary Chairman



Dr Marlene Kanga
President WFEO 2017–2019



Prof Dato' Dr Jamil Maah FASc
Vice President (Academic)
Universiti Islam Malaysia



Mr Byung-Seon Jeong
President, KISTEP



Prof Malik Maaza
UNESCO UNISA AFRICA Chair in
Nanosciences/Nanotechnology



Prof Ismunandar
Republic Indonesia Permanent
Delegate to UNESCO



Prof Manzor Soomro
Founder President and Advisor
ECOSF



Prof Wu Qidi
Director, International Centre for Engineering
Education under the auspices of UNESCO
(ICEE)

Strategic Context

Vision & Mission; Strategic
Objectives; Thrusts and
Priority Agendas

VISION

**A global leader
in STI and the driving
force for developing
countries' nation-
building and socio-
economic
development**



MISSION

**A leading international
platform offering
sustainable
programmes and
services in producing
holistic talents towards
institutional excellence
and
and augmenting
sustainable
development for South-
South Cooperation**

04 STRATEGIC THRUSTS

1

Leading STIE Collaborative and Knowledge-Sharing Platform

2

Strengthening science, technology, research and innovation systems and policies for shared prosperity

3

Developing talent for Sustainable Development

4

Effective Science Communication and Better Access to Information and Knowledge



05 STRATEGIC OBJECTIVES

SO1 Establishing links and fostering cooperation among governments, academia and industry in facilitating the transfer of knowledge between the public and private sectors, and the development of well-planned and relevant knowledge-based programmes and institutions in participating countries;

SO2 Developing networks and collaborative R&D and training programmes at regional and international levels including linking of designated nodal centres in participating countries;

SO3 Promoting the **interface between science, policy and society** and ethical inclusive policies for sustainable development and strengthening STI policies and engagement with society;

SO4 Building capacity of scientists, managers of research centres/institutions and policymakers in improving their capacity in managing science and technology innovation systems;

SO5 Facilitating the **exchange and dissemination** of information.

PRIORITY AGENDA 2022 – 2028





Key **Programmatic Pillars**



CAPACITY DEVELOPMENT AND ADVOCACY

- **STI Policy**
 - ISTIC-KISTEP STI Training Programme for High Level Policy Makers
 - 2009 – now
 - ISTIC- NAM S&T STI Policy Training Programme
- **Maintenance of Infrastructure**
 - Malaysia; India; Kenya; Myanmar
- **Technopreneurship**
 - Malaysia; Kuwait, Kazakhstan, Trinidad and Tobago, Equador (LAC); Iran
- **ISTIC- IKCEST Training Workshop on Big Data**



CAPACITY DEVELOPMENT AND ADVOCACY

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STI Policy

HISTORY

Seoul, Korea
14 Countries
15 Participants

2009

Cairo, Egypt
14 Countries
28 Participants

2010



Daejeon, Korea
16 Countries
22 Participants

2011



Kuala Lumpur, Malaysia
16 Countries
23 Participants

2012

/ 2015

Seoul, Korea
18 Countries
22 Participants

/ 2014

Melaka, Malaysia
18 Countries
25 Participants

/ 2013

Seoul, Korea
17 Countries
25 Participants

/ 2016

Kuala Lumpur, Malaysia
16 Countries
20 Participants

/ 2017

Seoul, Korea
14 Countries
16 Participants

/ 2018

Kuala Lumpur, Malaysia
14 Countries
24 Participants



/ 2019

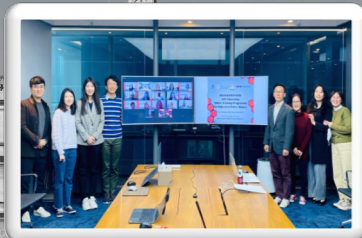
- Online platform:
<https://2020kistep-istic.kistep.re.kr> and Zoom
- 12 Countries
- 13 Participants (5 males & 8 females)

Seoul, Korea
10 Countries
13 Participants

2020

/

2021



ISTIC – KISTEP Training
Programme for High-Level
Policy Makers – Technology
Foresight
July 2024, Kuala Lumpur,
Malaysia

2024

ISTIC-NAM S&T STI
Policy Training
Workshop
6 – 7 June 2023

ISTIC – KISTEP Training
Programme for High-Level
Policy Makers
August 2023, Seoul, Korea

2023

2022

2021 KISTEP-ISTIC S&T
Innovation Online
Training Programme for
High Level Policy
Makers

ISTIC-UTM Perdana STI
Policy for Socio-
Economic Development
(SPED)





RESEARCH ECOSYSTEM



Global Innovative Research Consortium (GIRC)

A consortium of leading scientists providing a global collaborative platform for research, development and strengthening of key STIE field to benefit and support the South-South countries and to incorporate shared prosperity vision between advanced nations with the South countries



Capacity Development

- East African Regional Workshop on Research Networking and Proposal Writing
- Southern African Regional Workshop on Research Networking and Proposal Writing
- Western African Regional Workshop on Research Networking and Proposal Writing



Research Funding

- Joint Call for Research
- Malaysia Science Endowment (MSE)

EDUCATION FOR SUSTAINABLE DEVELOPMENT (ESD)

- Inquiry Based Science Education (IBSE)
- OBOR
- Computer Science Education (CSE)
- Climate Change Education (CCE)



Climate Change Education (CCE)

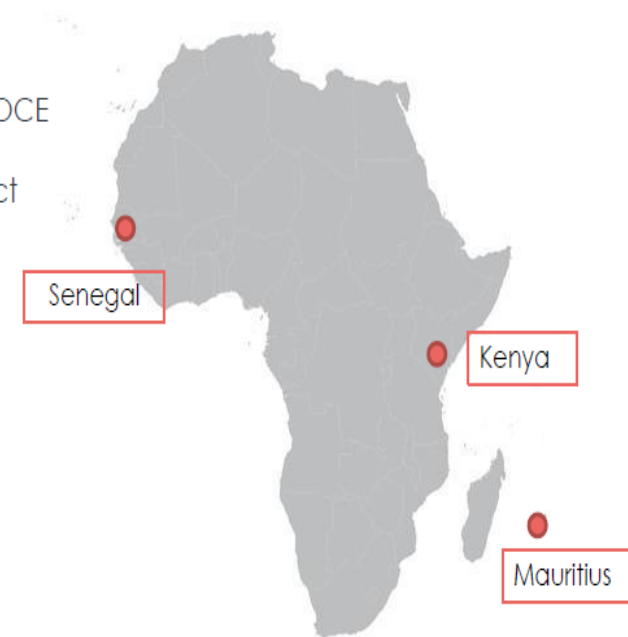
ARRICE: capitalization of the ALEC project

- Designed and developed by the OCE
- 5 years (2020 - 2024)
- ~ 4 M€ budget
- 10 local partners
- Objective: 16 000 classrooms, 500 000 students



ARRICE – overview

- Initiated and coordinated by the OCE
- A capitalization of the ALEC project
- 3 pilot countries
- 4 years (2023 - 2027)
- ~ 3 M€ budget
- ~ 100 –pilot schools
- Co-construction avec 4 partners



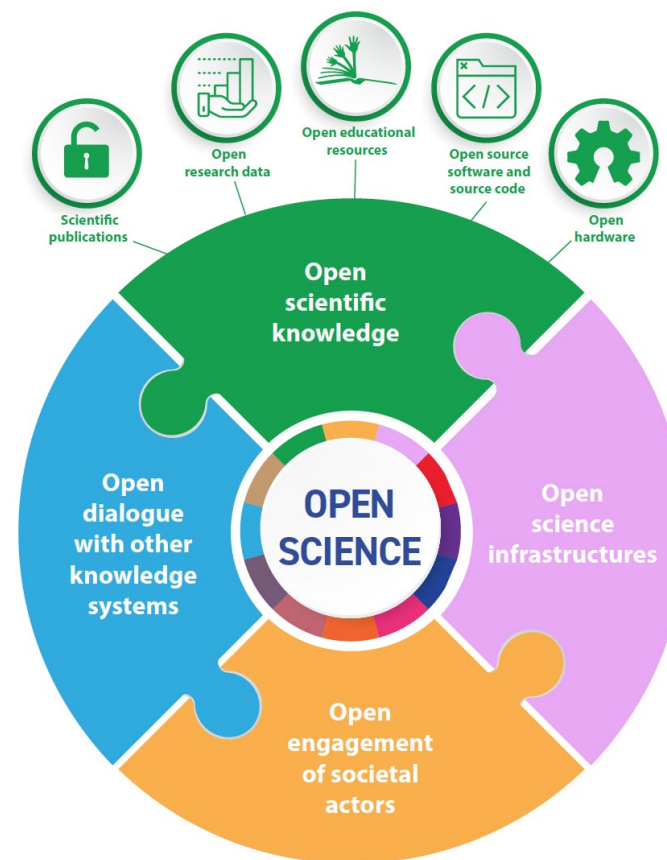
Greening Education for Southeast Asia (GE4SEA)



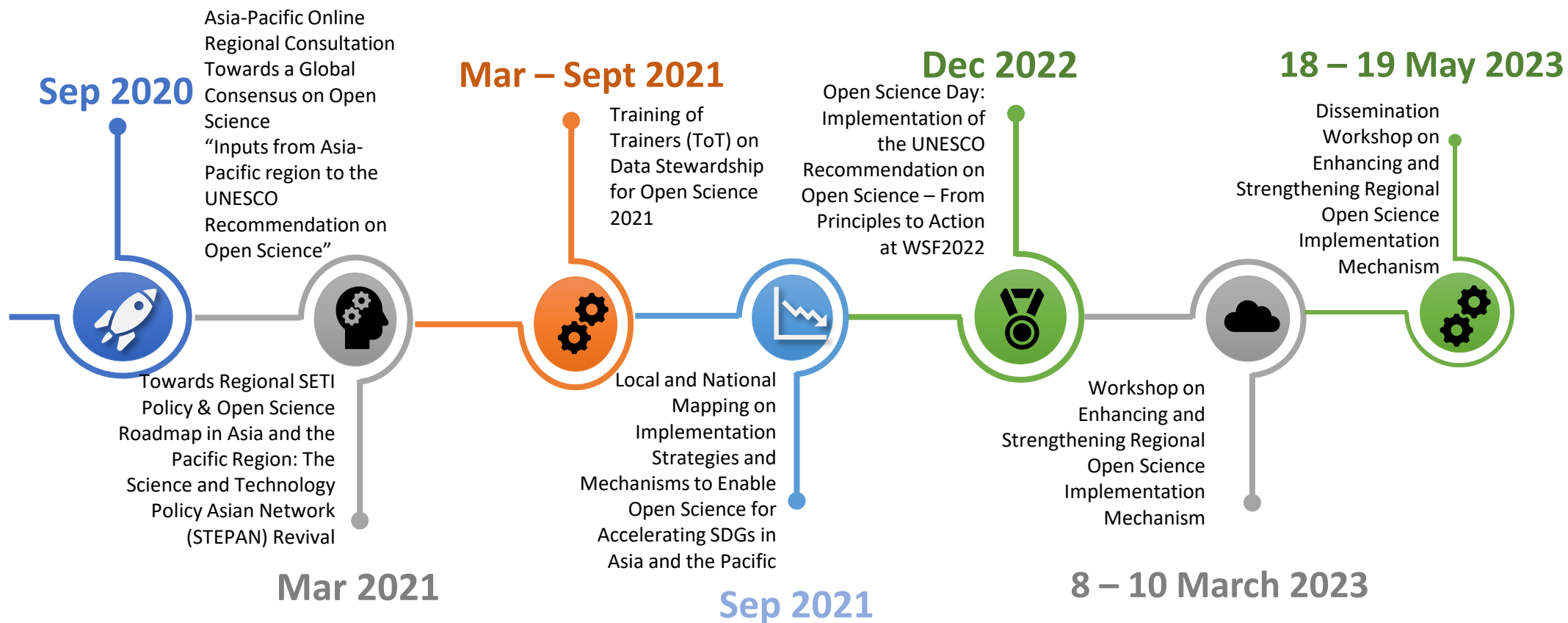
- The Greening Education for South-East Asia (GE4SEA) Program is designed as a comprehensive **five-year initiative** aimed at **revolutionizing climate change education** in primary and secondary schools across Southeast Asia.
- This initiative seeks to operationalize the principles of the **Greening Education Partnership (GEP)**, established by the United Nations in 2022, making climate change education a cornerstone of regional climate adaptation strategy.
- General objective of the project is to equip younger generations in Malaysia and Indonesia of **sustainable practices** in order to adapt to and mitigate the impacts of climate change.
- Project components: **Curriculum Development; Teacher Training; Community Engagement; Student Leadership; Monitoring & Evaluation**
- Will be co-coordinated by 2 international actors – **ISTIC** and **OCE**
- Two pilot countries – **Malaysia** and **Indonesia**
- **Funding** will be ensured by from a mix of governmental, private, and philanthropic sources.
- Expected launch : **2025**

OPEN SCIENCE

UNESCO Recommendation on Open Science



Open Science



Open Science in Global South

- Aims to position scientists and science systems in the Global South at the cutting edge of data-intensive open science through **streamlining** processes to **maximize** resources; **optimizing** resource allocation; creation of critical mass through **shared** capacities
- Regional Consultation on Collaborative South-South Regional Approach to the Promotion and Implementation of Open Science





United Nations
Educational, Scientific and
Cultural Organization

联合国教育、
科学及文化组织

ICEE

International Centre for
Engineering Education
under the auspices of UNESCO

国际工程教育中心
联合国教科文组织支持

17 PARTNERSHIPS
FOR THE GOALS



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5th BIENNIAL INTERNATIONAL CONFERENCE ON WOMEN IN SCIENCE, TECHNOLOGY, INNOVATION AND ECONOMY (STIE) *TRAILBLAZERS OF TOMORROW'S INNOVATIONS* 10 – 12 December 2024, Beijing, China

- A high-level conference bringing together STIE experts to address challenges for girls/women particularly careers in STI
- **Special Plenary Address by Minister of MOSTI**
- **Plenary Lecture**
- **Keynote Speech**
- **Forum**
- **Dialogue**
- **Invited Lecture**
- **Workshops**





Goal 17: Revitalize the global partnership for sustainable development

17.6 Enhance North-South, South-South and triangular regional and international cooperation on and access to science, technology and innovation and enhance knowledge sharing on mutually agreed terms, including through improved coordination among existing mechanisms, in particular at the United Nations level, and through a global technology facilitation mechanism

17.9 Enhance international support for implementing effective and targeted capacity-building in developing countries to support national plans to implement all the sustainable development goals, including through North-South, South-South and triangular cooperation

17.16 Enhance the global partnership for sustainable development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, to support the achievement of the sustainable development goals in all countries, in particular developing countries



I S T I C

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Thank You

Terima Kasih



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