



United Nations
Educational, Scientific and
Cultural Organization

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OFFICE
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It is through this dialogue
that the world can achieve
global visions of sustainable
development encompassing
observance of human rights,
mutual respect and the
alleviation of poverty

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GLOSSARY

AGSI	Adiwiyata Green Schools Indonesia
AICHR	ASEAN Intergovernmental Commission of Human Rights
ASEAN	Association of Southeast Asian Nations
AVID	Australian Volunteers for International Development
AWS	Automated Weather Stations
BALS	Bureau of Alternative Learning System
BCO	Borobudur Conservation Office
BRIDGES	Biosphere Reserves Interconnected in Diverse Global Environments for Sustainability
CapEFA	Capacity development for Education for All
CCE	Climate Change Education
CLCC	Creating Learning Communities for Children
COMEST	World Commission on the Ethics of Scientific Knowledge and Technology
COMPETENCE	Comprehensive Program to Enhance Technology, Engineering and Science Education in Asia
DPO	Disabled People's Organization
DRR	Disaster Risk Reduction
ECCE	Early Childhood Care and Education
ESD	Education for Sustainable Development
ESP	Education Sector Planning
ETTC	Ethics Teachers Training Course
GDI	Gender Parity Index
GEM	Global Education Monitoring
GOI	Government of Indonesia
IDDR	International Day for Disaster Reduction
IIEP	International Institute for Educational Planning
IFIT	Indonesian Funds-in-Trust
IGGP	International Geoscience and Geoparks Programme
IHP	International Hydrological Programme
ILO	International Labour Organization
IKIM	Institution of Islamic Understanding Malaysia
IOC	Intergovernmental Oceanographic Commission
IOTIC	Indian Ocean Tsunami Information Centre
ITB	Institute of Technology Bandung
JFIT	Japanese Funds-in-Trust
KOICA	Korea International Cooperation Agency
LDC	Least Developed Countries
IAP	Lima Action Plan

MAB	Man and the Biosphere Programme
MEXT	Ministry of Education, Culture, Sports, Science and Technology of Japan
MFIT	Malaysia Funds-in-Trust
MOE	Ministry of Education
MoEC	Ministry for Education and Culture
MOET	Ministry of Environment and Tourism
MOSTI	Ministry of Science, Technology and Innovation of Malaysia
MUCP	Malaysia-UNESCO Cooperation Programme
NatCom	National Commission
NDRE	National Directorate for Recurrent Education
NPSTI	National Policy on Science, Technology and Innovation
OUV	Outstanding Universal Values
PacMAB	Pacific Biosphere Reserves
PMD	Pakistan Meteorological Department
PSD	Peace and Sustainable Development
RPJMN	Indonesian Midterm National Development Plan
RSC	Regional Steering Committee
SBM	School-Based Management
SDG	Sustainable Development Goals
SEA	Strategic Environmental Assessment
SeaBRnet	Southeast Asia Biosphere Reserves Network
SFDRR	Sendai Framework for Disaster Risk Reduction
SHARP	Science Harnessed for ASEAN Regional Policy
SHS	Social and Human Sciences
SIDA	Swedish International Development Cooperation Agency
SIDS	Small Island Developing States
STAR	Sustainability Transformation Across the Region
TEWS	Tsunami Early Warning Systems
TRHS	Tropical Rainforest Heritage of Sumatra
UKM	Universiti Kebangsaan Malaysia
UNESCAP	United Nations Economic and Social Commissions for Asia and the Pacific
UNPRPD	United Nations Partnership for Promoting the Rights of Persons with Disabilities
VISUS	Visual Inspection in defining Safety Upgrading Strategies of School Facilities
WCBR	World Congress of Biosphere Reserves
WHO	World Health Organization
WISER	Water Informatics for Sustainability and Enhanced Resilience in Asia and the Pacific

About UNESCO

UNESCO works to create the conditions for dialogue among civilizations, cultures and peoples, based upon respect for commonly shared values. It is through this dialogue that the world can achieve global visions of sustainable development encompassing observance of human rights, mutual respect and the alleviation of poverty, all of which are at the heart of UNESCO'S mission and activities.

The Asia-Pacific region counts for almost two thirds of the world's population and gathers countries of great diversity in economic, religious, political and cultural terms. This diversity, along with globalization and the dynamism and rapid evolution of the region bear great challenges for governments and societies. In close cooperation with governments, National Commissions and non-governmental partners, UNESCO Jakarta works on fulfilling UNESCO's mandate to contribute to peace and security in the world by promoting collaboration among nations through education, science, culture and communication in order to further universal respect for justice, for the rule of law and for the human rights and fundamental

freedoms which are affirmed for the peoples of the world, without distinction of race, sex, language or religion, by the Charter of the United Nations.

In the 48 UNESCO Member States and 2 Associate Members of the Asia-Pacific, UNESCO is present with a network of 13 Field Offices comprising Cluster Offices, Country Offices and Regional Bureau.

UNESCO office in Jakarta was established as a field office for South-East Asian Science Cooperation (SEASCO) in 1951. In 1967 it became the Regional Office for Sciences and for South East Asia (ROSTSEA).

It is through this dialogue that the world can achieve global visions of sustainable development encompassing observance of human rights, mutual respect and the alleviation of poverty

UNESCO Jakarta has a double role as a Science Bureau for Asia and the Pacific and as a Cluster Office. As Regional Bureau for Science, UNESCO Jakarta provides strategic expertise, advisory, monitoring and evaluation functions to Member States, other UNESCO Field Offices and UN Country Teams in the area of Science. It assumed the role of focal point for Timor-Leste in 2002. As Cluster Office, UNESCO Jakarta covers all UNESCO mandates: education, sciences, culture, communication and information. It is responsible for the implementation of related programmes in Brunei Darussalam, Indonesia, Malaysia, the Philippines, and Timor Leste in all UNESCO fields of competence.

In the spirit of One UN and as part of the United Nations Country Team (UNCT) in Indonesia, UNESCO Jakarta works in synergy with the United Nations Sister Agencies to achieve the Sustainable Development Goals in the Asia-Pacific region.

PRIORITIES OF UNESCO IN CLUSTER COUNTRIES

IN BRUNEI DARUSSALAM, INDONESIA, MALAYSIA,
THE PHILIPPINES, AND TIMOR-LESTE

EDUCATION

Education is a fundamental human right and an enabling right. Through SDG 4 'Ensure inclusive and quality education for all and promote lifelong learning', UNESCO tries to ensure that, no individual will be left behind on Education. UNESCO Office Jakarta is responsible for implementing UNESCO's Education 2030 mandate through sharing of knowledge and good practices, developing capacities, and strengthening networks and partnerships and endeavours to assist the cluster countries in improving access to quality education, and in integrating the 2030 Education targets into national education and other sector plans. UNESCO Office Jakarta operationalizes this mandate through the Main Areas of Action, they are:

- **Promoting SDG4: Quality Education**
- **Education for Peace & Sustainable Development (PSD)**
- **Educational Sectoral Planning**
- **Improving Quality Literacy for All**
- **Promoting Inclusive Education**
- **HIV&AIDS Preventive Education**

NATURAL SCIENCES

UNESCO's Natural Sciences mandate in Asia and the Pacific is being implemented by providing timely and reliable scientific information, data, statistics, capacities and expertise in diverse fields such as freshwater, biodiversity and ecosystems, climate change, science, technology and innovation to foster green societies and economies who care about the environment. In close collaboration with our regional partners (National Commissions and Committees, Category 2 Centres, Chairs, Academia, NGOs and other organization and networks), we facilitate the conditions necessary to ensure that major development issues are addressed in a sustainable manner according to the needs of UNESCO Member States.

Natural Sciences main areas of action are:

- **International Hydrological Programme**
- **Man and the Biosphere Programme**
- **Natural World Heritage sites**
- **Sustainability Science approach**
- **International Geoscience and Geoparks Programme**

UNESCO Office Jakarta implements Natural Sciences main themes within the six main lines of actions as described in 38 C/5 for 2016-2017 biennium:

- **Main line of action 1: Strengthening STI policies, governance and the science-policy-society interface**
- **Main line of action 2: Building institutional capacities in science and engineering**
- **Main line of action 3: Promoting knowledge and capacity for protecting and sustainably managing the ocean and coasts**
- **Main line of action 4: Fostering international science collaboration for earth systems and disaster risk reduction**
- **Main line of action 5: Strengthening the role of ecological sciences and biosphere reserves**
- **Main line of action 6: Strengthening freshwater security**

UNESCO Office Jakarta also works within the theme of disaster risk reduction (DRR) which focuses on supporting the member states in addressing the four 'Priorities for Action' of the Sendai Framework for Disaster Risk Reduction (SFDRR) 2015-2030, and to meet the targets of the SDG goal 11, 'Make cities and human settlements inclusive, safe, resilient and sustainable' and SDG goal 4 Quality Education in relation to the Comprehensive School Safety framework. The work covers:

- **VISUS (Visual Inspection in defining Safety Upgrading Strategies of School Facilities)**
- **Geo-Hazards Risk Reduction.**
- **Science, Technology, Engineering and Innovation for DRR.**
- **Indian Ocean Tsunami Information and Education**
- **Indian Ocean Tsunami Ready**

SOCIAL AND HUMAN SCIENCES

UNESCO's SHS mandate is on fostering equitable and inclusive human development based on the universal ethical and human rights frameworks. UNESCO Office Jakarta pursues this by contributing to the attainment of 2030 Agenda by enabling people to create and use knowledge for just and inclusive societies through:

- **Capacity-building to optimize public policies: working with the governments and the civil society to design best possible policy responses to pressing social and economic challenges.**
- **Promoting participatory and inclusive processes and policies: making sure that all the relevant voices are heard and everyone benefits equitably from public policies.**
- **Building partnerships for knowledge sharing: tapping into the resources available at the centers of excellence around the world. The works covered by UNESCO Office Jakarta are in three major inter-related areas:**
 - **Building Inclusive Societies**
 - **Sustainability Science**
 - **Bioethics**

CULTURE

Activities proposed by UNESCO Office Jakarta are focused on contributing to the sustainable development of the five cluster countries. Capacity building activities are being developed on the implementation of the 1972 Convention Concerning the Protection of the World Cultural and Natural Heritage. The five cluster countries covered by UNESCO Office Jakarta have already ratified the Conventions; thereby workshops assembling the relevant experts of these countries would allow exchanges of experience and build networks and partnerships, which would then increase the capacities to propose sites on the World Heritage list.

COMMUNICATION AND INFORMATION

UNESCO Office Jakarta is responsible for implementing UNESCO's Communication and Information mandate through concrete actions in awareness-raising, capacity building, and policy advice to foster freedom of expression, and its corollaries, press freedom and freedom of information. The office operationalize this mandate through two overarching themes: Fostering Freedom of Expression and Building Knowledge Societies.

MAIN ACHIEVEMENTS

EDUCATION

The Launch of UNESCO's Global Education Monitoring Report 2016

2016 is special for UNESCO Office Jakarta as the office, in cooperation with Indonesian Ministry of Education and Culture and the Indonesian National Commission for UNESCO, hosted on 6 September 2016 several major events of UNESCO's 2016 Global Education Monitoring (GEM) Report, representing the Asia-Pacific and Oceania regions. The city was the first to globally launch the GEM Report ahead of the three other selected cities – London (United Kingdom), Kigali (Rwanda) and Medellin (Columbia). More than 300 key important stakeholders attended the launch, representing the Indonesian ministries, embassies, international and local organizations, academics, media, civil society, donor partners and youth.

The GEM Report mandate is to monitor progress towards the education targets in the new SDGs framework and is a singular, comprehensive, analytical and authoritative reference for the global follow-up and review of education.

"Thank you UNESCO for inviting Indonesia to be the co-host for this important global event, and for choosing Jakarta as the venue for the global launch" – By Mr. Muhadjir Effendy, Minister of Education and Culture, Republic of Indonesia

"Poverty hinders those who are out of school and do not have access to formal schools to get education access"

– By Mr. Leonor Magtolis Briones, Secretary of Education, the Philippines.

"Fostering intra and inter-regional cooperation through such meetings is essential to bring together the full value of UNESCO mandates to our Member States"

– By Ms Flavia Schlegel, Assistant Director General for Natural Sciences, UNESCO

NATURAL SCIENCES

Fostering Science Collaboration for Delivering the 2030 Agenda UNESCO Office Jakarta organized the event "Fostering Collaboration between UNESCO in the Field and Networks towards the 2030 Agenda", in Bali (Indonesia) in July 2016 to promote regional cooperation in the Natural Sciences sector. With the generous support of the Indonesian Funds in Trust (IFIT), the Japanese Funds in Trust (JFIT) and the Malaysia Funds in Trust (MFIT), this 4-day event resulted in the strengthening of the partnership for science towards the 2030 Agenda among UNESCO, donors and stakeholders, reflected in a set of policy and operational proposals and recommendations for a) Science to Policy actions, b) Water Sciences activities, c) Ecological and Earth Sciences activities, and d) Interdisciplinary and Interregional Cooperation.

"The Japanese Government is committed and looking forward to seeing how JFIT Science Programmes in Asia and the Pacific region will contribute to the regional delivery of the SDGs.

– By Mr Koichi Morimoto, Secretary General, Japanese National Commission for UNESCO Social and Human Sciences

"Promotion of intercultural and interfaith dialogue is one of the building blocks for attaining peace." – By Mr. Hilmar Farid, Director-General of Culture, Ministry of Education and Culture, Republic of Indonesia

CULTURE

Promoting Intercultural Dialogue through Capacity Building Training for Museum Development at UNESCO World Heritage Sites in Indonesia and Islamic Republic of Afghanistan

Within the framework of UNESCO's project 'Promoting Intercultural Dialogue through Capacity Building Training for Museum Development at UNESCO World Heritage Sites in Indonesia and Islamic Republic of Afghanistan, generously financed by the Government of Indonesia, a series of exhibitions entitled "Crossroad of Cultures: Bamiyan and Borobudur" was organized in late 2016 in Kabul, by UNESCO Office Jakarta in cooperation with Ministry of Education and Culture, Republic of Indonesia, UNESCO Office Kabul, and Ministry of Information and Culture, Islamic Republic of Afghanistan. The exhibitions aim to raise awareness on the importance of conserving and safeguarding cultural heritage, and to develop cross-cultural dialogue and understanding between Indonesia and Islamic Republic of Afghanistan through the two iconic World Heritage sites: Borobudur Temple Compounds and Cultural Landscape and Archaeological Remains of the Bamiyan Valley.

"Access to information is the empowerment of ordinary." – By Ms. Melinda Quintos de Jesus, the Executive Director of Centre of Media Freedom and Responsibility, the Philippines

"Information is very alive in Indonesia." – By Mr. Haris Azhar, Coordinator, KontraS

COMMUNICATION AND INFORMATION

World Press Freedom Day 2016: Access to Information Crucial to Achieving All of SDGs

To mark the World Press Freedom Day 2016, UNESCO Office Jakarta together with Indonesian Press Council organized a two-day regional conference to discuss the issues of press freedom and freedom of expression under this year's theme of "Access to Information and Fundamental Freedoms: This is your right!"

This year's event was especially significant considering the link between access to information and sustainable development is made for the first time in the recently adopted the United Nation's SDGs. The SDGs recognize the need to "ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements."





MOBILE APPS TRAINING TO EMPOWER YOUNG WOMEN IN RURAL AREAS

UNESCO Office Jakarta, in partnership with the Innovation and Inclusive Business Working Group, under Deputy V of the Coordinating Ministry for Economy of the Republic of Indonesia, organized the "National Training for Women Empowerment through Entrepreneurship and Digital Application" from 28 to 31 October 2016 in Sumbawa, West Nusa Tenggara. The training was directed at young women as lots Indonesian young women have yet to benefit from Indonesia's economic development due to gender inequality. The reason Sumbawa was chosen as the location of the training was because Sumbawa's Gender Parity Index (GDI) was considered one of the lowest in Indonesia. The outreach event is part of a series of activities planned in conjunction with the inaugural International Day for the Universal Access to Information (commonly known as the Right to Know Day) on 28 September 2016.

"The initiative trained the young women to produce five mobile phone applications that would be useful to the region, particularly for the agricultural and small and medium enterprises sectors." – By Ms. Marina Kusumawardhani, Co-founder of Code4Nation group and Executive Coordinator, the Innovation and Inclusive Business Working Group, Indonesia

"The digital applications would help cut the supply chain for commodity products from the agriculture, fisheries and small and medium enterprises sectors, increase cost efficiency, and lead to greater income for the farmer and fishermen as well as lower product price for the consumers." – By Mr. Edy Putra Irawady, Deputy of Trade and Industry Section, Coordinating Ministry for Economy, Indonesia

ACTIVITIES IN 2016

EDUCATION

Developing a Training Programme on Education Sector Planning in Indonesia

In close cooperation with UNESCO International Institute for Educational Planning (IIEP), the MoEC developed an adapted training programme on Education Sector Planning (ESP) for educational planners at the provincial/district/city levels to enhance the capacities of educational planners at the decentralized levels in developing more inclusive, equitable, effective and efficient plans. As a result, the IIEP's ESP glossary was translated, the 6 ESP Modules were adapted by the Ministry of Education and Culture on the development of educational sectoral planning guideline for the provincial and district level in 2016. The guideline will be available to put into practice in 2017.

Enhancing 21st Century Functional Literacy Skills in the Philippines

A "Capacity Development Workshop for enhancing 21st Century Functional Literacy Skills in the Philippines" was held by the University of the East, College of Education (Philippines), in close cooperation with the Bureau of Alternative Learning System (BALS, Department of Education). BALS was equipped with improved modules on English, science and mathematics, which contents were aligned with the K to 12 Curriculum. Guidance was provided to BALS on how to enrich their Accreditation & Equivalency programmes with functional literacy skills for the 21st century by making use of ICT devices.

Strengthening Indonesia in Developing an Enabling Learning Environment through Prevention and Counteraction of Violence for Early-Aged Students

UNESCO Office Jakarta supported the Center for Curriculum and Books, MoEC in strengthening knowledge of formal/non-formal Early Childhood Care and Education (ECCE) teachers, caregivers and school personnel on how to create an enabling learning environment for the child through prevention and counteraction of violence. Following a meeting held to identify policies, practices, and guidelines that were not yet available, a "Teacher's Guideline on Prevention and Counteraction of Violence for Early-Aged Children in Indonesia" was written, duplicated, disseminated, and launched in 2016.



Strengthening capacities of the Cluster Countries in integrating the principles of Education for Sustainable Development (ESD) at the policy and institutional levels

UNESCO Office Jakarta continued to promote knowledge sharing, strategic approaches and the development and updating of a framework implementation of ESD among policy makers and education practitioners in the five cluster countries of UNESCO Office Jakarta as well as among additional countries in the Asia Pacific with examples of good practices in ESD. In 2016, the activity was focusing on supporting the ministry of education and culture of Timor-Leste in the implementation of extra-curricular environment activities at five elementary schools in four districts.

Creating Learning Communities for Children/School-Based Management (CLCC/SBM) in Indonesia

The Directorate for the Management of Primary Schools in 2015 had identified that public primary schools in Bangli District (Bali), Donggala District (Central Sulawesi), Timor Tengah Selatan District (East Nusa Tenggara), Ternate City (North Maluku), and Pulang Pisau District (Central Kalimantan) encounter challenges in implementing School-Based Management practices. Thus, in assisting these areas and in supporting the country achieve target 4.1 of SDG 4, a "Workshop on SBM/CLCC" (Denpasar, 25-27 Oct 2016) was held for a total of 35 representatives of District/City Education Offices, School Supervisors, School Principals and School Teachers from these areas. In addition, a video on SBM/CLCC was disseminated to all participating representatives in these areas. Through the workshop, representatives of the five challenging and remote areas of the country enhanced their knowledge on the good practices of School-Based Management through deeper explanations on School-Based Management, sharing of experiences, and dissemination of the video.

Promoting Adiwiyata-Green Schools Indonesia (AGSI) and Empowering Low Income Communities for the Sustainable Future of Indonesia

This is a UNESCO project funded by IFIT and focuses on climate change, disaster risk reduction and biodiversity. The project, which started from 2014 to 2016, aimed at leveraging the capacity of schools and local communities in integrating the ESD concepts into curriculum and community action plan. The partners for this project were the Indonesian MOEC, Indonesia National Commission for UNESCO, Institute Technology 10 Nopember Surabaya, and local education authorities. A pilot project was successfully implemented in five schools and two kampungs in Mataram, West Nusa Tenggara. On the 2nd November 2016 – UNESCO Office Jakarta successfully held a half-day closure meeting of the IFIT Education AGSI Project and Sustainable Kampung Initiatives with a theme "Integration of School Initiatives and Community Empowerment for the Sustainable Development of Indonesia. This project has contributed towards the SDG 4 Ensuring Inclusive and Equitable Quality Education and Lifelong Learning for All, SDG 11 Sustainable Cities and Communities and SDG 13 Climate Action.

Timor-Leste Quality Education – the Third Cycle of Math and Science Curriculum Development

UNESCO Office Jakarta, with the support of Korea International Cooperation Agency (KOICA), supports the Timor-Leste Ministry of Education (MoE) in developing a national school curriculum, that both is indigenous and in line with the international standards, by working closely with the Timor-Leste National Commission for UNESCO (TL NatCom), the Center for the Study of Math and Science (SESIM) within the

TL NatCom, Timor-Leste MoE, and the cabinet of the Vice Minister for Basic Education (pre-school to the ninth grade). UNESCO has provided technical and financial support to solidify the Math and Science curriculum for the third cycle of basic education (grades 7-9) and trained the Math and Science teachers' at all third cycle schools on the revised curriculum components. The project has helped Timor-Leste towards achievement of its SDG4: Education 2030 Agenda goal of zero illiteracy.

Capacity development for Education for All (CapEFA) Timor-Leste

A "CapEFA Meeting on the Organizational Structure, Operational Management System, and Communication System of the National Directorate for Recurrent Education (NDRE)" was held in Dili on 15-17 March 2016. Through this project, capacities of the Ministry of Education had been strengthened in scaling up and improving the quality and sustainability of the national recurrent education programmes provided to empower the people of this country with literacy and lifelong learning opportunities to improve their well-being and transform their lives. Eight key project output documents were printed and disseminated to NDRE and relevant stakeholders. A "Closing of CapEFA Timor-Leste" ceremony was held on 1 April 2016, and assets of the project were officially handed over to MOE.

Promoting South to South Cooperation for Climate Change Education (CCE) for Asia Pacific Small Island Developing States (SIDS)

Funded by MFIT, the project aimed at using the expertise of Malaysian teachers to build the capacity of teacher education institutions from Asia Pacific to deliver Climate Change Education. This project has contributed towards SDG 1 "ending poverty in all its forms everywhere" and SDG 4 "ensuring inclusive and equitable quality education and lifelong learning for all". A National Training of Teachers on CCE was conducted in Fiji from 2 to 7 May 2016 in coordination with Fiji NATCOM and the Ministry of Education, Heritage and Arts. Sixty key teachers responsible for conducting follow-up training for teachers in their respective schools on CCE were nominated to attend this training, of which 33 were male and 27 were female. The training also contributed to improving the professional capacity of six Curriculum Development Officers of Fiji MOE to conduct presentations and run activities on Climate Change Education.

Emergency Psychosocial Support for Secondary School-aged Students Affected by Typhoon Yolanda in the Philippines

UNESCO Office Jakarta, with the financial support from the Government of Japan through its Official Development Assistance, embarked on a recovery project following the super typhoon Yolanda that struck the Philippines in 2013. The project was carried out in close partnership with the Philippines' Department of Education Central Offices, Regional Offices and Division Offices. The overall purpose of the project is to support the Government of Philippines' education system through the enhancement of national and local capacities in response to immediate needs of secondary school children affected by emergency situations such as typhoons, earthquakes and/or floods.

NATURAL SCIENCES

I. DISASTER RISK REDUCTION

Preserving Past Tsunamis for Future Preparedness

Indonesia is prone to tsunami hazard; since 1950 there were 21 tsunami events recorded. Unfortunately, documentations, records, reports and information were very limited and scattered. UNESCO Office Jakarta started preserving past tsunami incidents based on those who witnessed and survived the catastrophes. During the International Day for Disaster Reduction, in line with the theme of the IDDR 2016: "Live to Tell: Raising Awareness, Reducing Mortality", which aimed at creating a wave of awareness about actions taken around the world to stop disasters from claiming lives, IOTIC published a booklet in Bahasa Indonesia entitled, "Air Turun Naik di Tiga Negeri" (Tsunami in Three Villages), commemorating the 1950 tsunami in Ambon. The booklet recorded and documented the story of 28 eyewitnesses of a tsunami that happened on a Sunday afternoon on 8 October 1950 in three villages in the island of Ambon, namely, Negeri Hutumuri, Negeri Hative Kecil and Negeri Galala. The "Air Turun Naik di Tiga Negeri" booklet was officially handed over to the local government and the community on Saturday, 8 October 2016 in the Hative Kecil Church during the mass.

Strengthening Tsunami Emergency Response in Western Indian Ocean

The goal of this activity is to strengthen the capacity of Indian Ocean Member States in tsunami preparedness and response to the tsunami early warning. The specific objective of this activity is to support in building the capacity of the relevant institutions and organization of Indian Ocean small island developing states and the African coasts developing countries on tsunami risk assessment and to better response to the tsunami warnings. The activity was implemented based on UNESCO IOC mandate and capacity in the coordination of the development of the Indian Ocean Tsunami Warning and Mitigation System. The activity outputs, among other, are a) a clear guidelines for the relevant stakeholders of the Indian Ocean small island developing states and the African coasts developing countries on end to end tsunami early warning system; b) recommendations to the country on how to foster their end to end TEWS and c) the knowledge and knowhow for the country's stakeholders of what they need to do to further develop, strengthen and sustain their end to end tsunami early warning system especially focusing on tsunami preparedness, response and mitigation.

Pre-IOWave16 Training/Workshops on Tsunami Awareness and Preparedness and Standard Operating Procedures for Tsunami Warning and Emergency Response in Mozambique

The IOC-UNESCO Indian Ocean Tsunami Information Centre in UNESCO Office Jakarta conducted several 5-day training/workshops, funded by MFIT, on Tsunami Awareness and Preparedness and Standard Operating Procedures for Tsunami Warning and Emergency Response. The training covered the following topics: **1. Introduction to Tsunami Hazard; 2. Introduction to Tsunami Risk Reduction; 3. Introduction to Tsunami Risk Assessment; 4. Tsunami Early Warning System and Standard Operating Procedures; 5. Mozambique Tsunami Early Warning and Emergency Response Standard Operating Procedures; 6. Tsunami Exercise, towards Indian Ocean Wave 2016 (IOWave16); 7. Table-Top Exercise; 8. National Planning for Preparation for IOWave Exercise 2016.** This training was conducted in Mozambique, Tanzania and Seychelles.

Lessons Learnt Workshop on Community Participation at the Indian Ocean Tsunami Wave Exercise 2016 IOTIC, jointly with the Institute of Technology Bandung (ITB), the ICG/IOTWMS secretariat and with the support of the United Nations Economic and Social Commissions for Asia and the Pacific (UNESCAP), in part of the contribution of the Government of Japan, organized a regional workshop on Lessons Learnt from Community Participation at the Indian Ocean Tsunami Wave Exercise 2016. The workshop resulted 7 points of lessons learned and 21 points of recommendation. The result of the workshop was submitted to the Working Group 1 of the Indian Ocean Tsunami Warning and Mitigation system to be taken into consideration on the next Indian Ocean Wave Exercises.

II. POLICY AND CAPACITY BUILDING

Promoting Sustainability Science towards Sustainable Development in Asia and the Pacific

"Sustainability Science is an emerging field of problem-driven, interdisciplinary scholarship that seeks to facilitate interventions that foster shared prosperity and reduced poverty while protecting the environment" (Harvard University's Center for International Development). In order to demonstrate the Sustainability Science approach, UNESCO Office Jakarta is implementing the projects "Science Harnessed for ASEAN Regional Policy (SHARP)" financially assisted by the MFIT and "Sustainability Transformation Across the Region (STAR)" funded by JFIT. Demonstration sites were established in five sites within three countries:

- Siem Reap/Tonle Sap, Cambodia: "Establishment of Sustainable Science Demonstration Project on Restoring and Enhancing Angkor World Heritage Site and Siem Reap City Water Systems".
- Langkawi Geopark, Malaysia: "Establishment of Sustainability Science Demonstration Site on Water and Environmental Sustainability Education Linked With Ecotourism in Langkawi Geopark".
- Davao, Philippines: Demonstration site on "Enhancing Resilience to Disasters of Urban Water Systems of Mindanao".
- Ifugao Rice Terraces, Philippines: "Establishment of Sustainable Science Demonstration Project on Rice Terraces of the Philippines Cordilleras".
- Langat River Basin, Malaysia: "Establishment of Sustainable Science Demonstration Project on Restoring and Managing Langat River, Malaysia for Future"

Several discussions among the project partners have addressed pathways to implement the sustainability science approach through exchanges on what are the current environmental sustainability programmes in the different ASEAN Member States and how the lessons learned at the demonstration sites could be upscaled and integrated with sustainability policies at national level. The implementation of this project is also contributing to addressing 2030 Agenda, especially SDGs 4, 6, 11, 13 and 15.



Promoting Sciences Education for Girls

In the celebration of International Day for the Conservation of the Mangrove Ecosystem on 26 July 2016, UNESCO Office Jakarta together with L'Oreal Indonesia invited notable women scientists, Dr. Indri Badria Adilina, Dr. Eni Sugiarti & Dr. Ai Sugiura to speak before girls' students from an all-girls secondary school in Jakarta, Indonesia. The women scientist shared their learning experiences, scientific career journey and their current scientific research activities and its potential contribution in conserving mangrove ecosystems. The Director of UNESCO Office Jakarta and the Principal of the school were also involved in the event by giving advice to the students on the importance of mangrove ecosystems for protection of the environment, and the benefits of implementing science and environmental education in their daily life. This activity contributed to the delivery of SDG 4 on Education as well as SDGs 14 and 15 on conservation of aquatic and terrestrial ecosystems.

Strategic Strengthening of Flood Warning and Management Capacity: Phase 2

- Following with the support of the Government of Japan, the Regional Science Bureau for Asia and the Pacific implemented the second phase of the strategic strengthening of flood warning and management capacity in Pakistan. In 2016, the second year of implementation yielded the following outputs:
- The prototyping of the first entirely Pakistan manufactured automated weather station (AWS) has been successfully delivered by Pakistan Meteorological Department (PMD) engineers and five AWS have been deployed and tested for operational use.
- Trainings and international workshops including Afghan officers from institutions managing floods were held to identify the data gap and analyse the state of the art of forecasting analysis on Indus system including the Eastern Rivers. A modelers group with project partners under the coordination of UNESCO, was constituted to collaborate and share progress on the Eastern rivers modeling and a preliminary analysis of Eastern Rivers hydrology and development of related databases was completed
- Surveys on soil hydraulic properties of 96 sites over the Eastern Rivers were conducted, in which the data will be used for further calibration of Eastern rivers models.
- Two local workshops trainings were conducted on reduction of flood generation and soil erosion through reduction in water runoff, storage of rainwater to reduce water runoff causing floods in lowland areas, utilization of stored rainwater through efficient means to grow high value crops, improving livelihood of farmers and poverty alleviation and capacity building of professionals on different land and water management technologies. The participants (39 (25% female) for the first training, 32 (40% female) from the second were from relevant provincial government departments in charge of water and land management, local NGO's including women organisations and progressive farmers from Punjab and KPK provinces.

South-South Cooperation for Enhancing Science, Engineering and Technology Standards in Asia-Pacific and Africa

- The project supported by MFIT is to harness science, engineering and technology as a way to equip individuals and communities with the knowledge, skills and attitudes to live, work and act within the framework of sustainable development. The project has been implemented through 3 components:
- A meta-knowledge platform in making available tools and resources for engineering, science and technology human resource development for sustainable development through Connect-Asia;
- Modular curricula that could be adopted by professional bodies and universities for certified training of professionals;
- Mapping of UNESCO centres and chairs for establishing south-south learning alliances.

UNESCO Biotechnology School in Asia

The UNESCO-JAPAN International Post-Graduate University Course in Microbiology (1973 to 2003) and the UNESCO-JAPAN Postgraduate Inter-University Course in Biotechnology (2004 to 2007) were successful, long-running human resource development programmes. These two courses trained 459 young researchers from Asian countries who are now playing active and leading roles in biotechnology research and education in the region, contributing both to the development of their own country and consequently Asia, and to the establishment of a stronger biotechnology network spanning the region. Now, more than 30 years after the initial Course's inception, biotechnology-focused human resource development in Southeast Asia has come to a turning point, meriting a review and redesign in response to the evolving needs of the region and new global challenges such as food security, energy issues, environmental conservation, infectious diseases and climate change. This biotechnology programme, with support of JFIT, also incorporates sustainability science and research practices to foster an integrated understanding of sustainability among the scientists throughout Asia and introduces a new form of institutional partnerships among participating countries (Cambodia, Indonesia, Japan, Lao PDR, Philippines, Thailand and Vietnam). In 2016, the third and last batch (8 participants from Cambodia, Indonesia, Lao PDR, Mongolia, Philippine, Thailand and Vietnam) started their MSc Programme and a total of 30 students were enrolled (among them more 20 women) in the course of the three phases of this project.

III. WATER AND ENVIRONMENT

Addressing SDGs in Dryland Regions: Water, Energy and Food Security

UNESCO Office Jakarta, in collaboration with the PMAS-Arid Agriculture University Rawalpindi, organized the International Conference: Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in Dryland Regions to discuss and explore new dimensions to increase water and food security and alleviate poverty in the resource deficient dryland regions worldwide, in Asia and the Pacific region, and particularly in Pakistan. Some 200 participants including 15 international experts from 10 countries (Islamic Republic of Afghanistan, Australia, China, Indonesia, Japan, Korea, Malaysia, Nepal, Pakistan, and Philippines), policy makers, scientists, academicians, other stakeholders and students participated in this forum. A series of 26 recommendations around seven key areas of discussions (Pakistan Vision 2025 and 2030 Agenda, DRR, Water-Energy-Food nexus and Livelihoods, Agricultural Sustainability, Water Planning, Food Security, Energy) were agreed by the participants. Commitment was made to disseminate these recommendations to all countries in the Asia and the Pacific region to raise awareness, share findings and foster concerted and collaborative partnership among drylands of the region and beyond.

26th IHP-Training course “Coastal Vulnerability and Freshwater Discharge”

The 26th IHP-Training course “Coastal Vulnerability and Freshwater Discharge” was programmed for participants from Asia-Pacific regions as a part of the Japanese contribution to the IHP. The course composed of a series of lectures and practice sessions, 27 November - 10 December, 2016, Nagoya, Japan. 23 participants from 12 countries (Bulgari, China, Indonesia, Japan, Mozambique, Republic of Korea, Russia, Singapore, Taiwan, Thailand, United States of America, Viet Nam) with among them 14 women received the training.

24th IHP-Regional Steering Committee for South East Asia and the Pacific Meeting

UNESCO Office Jakarta organized the “24th International Hydrological Programme - Regional Steering Committee (RSC) for South East Asia and the Pacific Meeting” in conjunction with “The International and National Water Dialogue on the Delivery of SDG 6 in Mongolia and Wider Asia and the Pacific Region” on 24-26 October 2016 in Ulaanbaatar, Mongolia. The meeting was organized in collaboration with the Mongolian National Commission for UNESCO and the Ministry of Environment and Tourism (MOET) of Mongolia and with the support from JFIT. Over 60 participants among which 9 women from IHP RSC member countries (Australia, China, Indonesia, Japan, Republic of Korea, Malaysia, Mongolia, Myanmar, New Zealand, Philippines, Papua New Guinea, Thailand and Vietnam) as well representatives from a range of Mongolian organizations took part in the meeting. The discussion was divided into three topics: Water Security in Arid Environment, Integrating UNESCO Initiative in Water and Environment Sciences and the Mongolian Perspective on Water Security.

Promoting Ecological and Eco-hydrological Solutions for Sustainable Management in Indonesia and Asia Pacific Region

In supporting the development of an ecohydrology network in Indonesia and Asia Pacific region and strengthening the cooperation within country members in implementing ecohydrology approach for basin management, UNESCO Office Jakarta conducted two strategic workshops in 2016:

- Water Security and SDGs in Indonesia on 14-15 April 2016 in Jakarta, Indonesia with 44 attending participants (19 women and 25 men) from national institutions.
- Sustainable Water Management in Indonesia and Asia Pacific on 14 November 2016 in Bogor, Indonesia with 40 (16 women and 24 men) national and international participants.

These activities developed pilot project initiatives on ecohydrology implementation which have become the baselines for further demonstration site and project developments. Under this activity 7 ecohydrology pilot project were established in Indonesia:

1. Ecohydrology Demosite establishment in Saguling Reservoir, Citarum River Basin, West Java.
2. Study on the implementation of ecohydrology approach on avoided deforestation in peatland rewetting and conservation in ex-mega rice project location, Central Kalimantan;
3. Comprehensive study on improving water services towards water security in Medan City, North Sumatera;
4. Comprehensive study on Sustainable Water Management in Yogyakarta City and Borobudur Temple surrounding;
5. Series of training for high school teachers and demo site establishment for learning site in East Nusa Tenggara;
6. Activities in community education to raise awareness of water security and water quality in Pari Island, Jakarta Special Region; and
7. Study on the role of community participation in peri-urban water management in Jember City, East Java.

Safeguarding the Outstanding Universal Value of the Tropical Rainforest Heritage of Sumatra

UNESCO Office Jakarta supports the Government of Indonesia in its efforts to remove the Tropical Rainforest Heritage of Sumatra (TRHS) from the list of World Heritage in Danger. Through close coordination with the ministries, three base-lines studies related to the legal aspects, ecological and socio-economic impacts of road development in TRHS were conducted. These studies have led to the development of a comprehensive Strategic Environmental Assessment (SEA) of impacts of road development in TRHS. The SEA provides a series of recommendations on alternative transportation options in the area, which can be adopted to support the improvement of decision-making capacities at regional, provincial and national level on road development measures, to maximize the ecological integrity of the TRHS landscape while addressing the local development needs. This project has contributed to the delivery of SDG 15 on conservation of terrestrial ecosystems, as well as SDG 11 target 11.4 to strengthen the efforts to protect and safeguard the world's cultural and natural heritage.

Strengthening the World Network of Biosphere Reserves

UNESCO Office Jakarta, as Secretariat of the Southeast Asia Biosphere Reserves Network (SeaBRnet), participated in the 4th World Congress of Biosphere Reserves (WCBR) celebrated in March 2016 in Lima, **Peru, and organized two side events:**

1. A joint meeting of the SeaBRnet and the Pacific Biosphere Reserves (PacMAB) networks to discuss the 2016-2025 roadmap for UNESCO's MAB Programme, known as the Lima Action Plan.
2. A workshop entitled "The Silk Road Initiative: Connecting Biosphere Reserves for Sustainable Development" to promote an initiative for sustainable development across different regions and sectors by using the UNESCO's MAB and other Programmes as tools and models.

The 4th WCBR closed with the adoption of the Lima Declaration and the Lima Action Plan for Biosphere Reserves for 2016-2025, a new ten-year Action Plan for UNESCO's MAB Programme to achieve Sustainable Development and the 2030 Agenda along its World Network of Biosphere Reserves.

Supporting Local Governments to Implement the Man and the Biosphere (MAB) Programme

"UNESCO Office Jakarta, in collaboration with the Indonesia MAB National Committee, organized the Wakatobi International Workshop for "Strengthening the Role of Local Governments in Implementing the Lima Action Plan", in June 2016 in Wakatobi Biosphere Reserve, Indonesia. Sixty participants from nine countries (Australia, Indonesia, Japan, Republic of Korea, Malaysia, Myanmar, Thailand, United Kingdom, Vietnam) gather together to discuss the roles of local governments in implementing the Lima Action Plan for Biosphere Reserves. The result of the workshop was a series of recommendations to the MAB International Coordinating Council and through it to the whole community of the World Network of Biosphere Reserves, regarding the role of the local governments in implementing the LAP 2016-2025, especially in three main areas: governance, sustainable natural resources management and green economies and green jobs.



SOCIAL AND HUMAN SCIENCES

Padang joins the Network for Inclusive Cities and hosted the Sixth High Level Meeting of Mayors

On 27 September 2016, in collaboration with UNESCO and ILO, the Padang City Government hosted the Sixth High Level Meeting of Mayors for Inclusive Cities. The High Level meeting is part UNESCO's efforts to help reinforce and expand the "Network of Inclusive Cities": a coalition of municipalities from across Indonesia committed to creating inclusive physical, social and economic environments for persons with disabilities. During the meeting, the Government of Padang City – a new member of the growing network – signed a Memorandum of Understanding with UNESCO on Social Inclusion of People with Disabilities, which marked the start of collaboration between both parties to address the needs and promote the rights of person with disabilities residing in the city.

Following the High Level Meeting, the representatives of city governments and DPOs got down to business to discuss ways to bring real change to their communities. The 2-day capacity-building workshop brought together the representatives of 15 Indonesian city governments and members of disabled peoples' organizations (DPOs) for exchange of ideas and joint capacity-building on best practices in promoting inclusive employment and accessibility of infrastructure, transportation, and technology for persons with disabilities.

"Another City is Possible!" – Urban Social Forum 2016 and UNESCO Panel on Disability and Inclusive Cities.

The adoption of the National Law No.8/2016 on Persons with Disabilities signifies that the Indonesian government is serious about its commitment to fulfil and to protect the rights of persons with disabilities. This commitment must be translated into action on a local level; this is the key objective of the UN Partnership for Promoting the Rights of Persons with Disabilities (UNPRPD) project – to meet the capacity-building needs of policymakers and civil society working on improving the life of those living with disabilities in Indonesia.



The UNPRPD in Indonesia unites UNESCO, ILO and WHO to support the Network of Mayors in its important role as convener of policymakers and the civil society.

On 3rd of December – the International Day of Persons with Disabilities, a UNESCO Panel on Disability and Inclusive Cities engaged the audience to engaged in lively exchanges to learn, share knowledge and inspire transformative change for urban communities across Indonesia and to tackle questions about social inclusion: “How can SDGs be linked to social inclusion at the city level? What is the role of data and evidence for effective and inclusive public policies? How can we address the existing gaps in data and evidence?”

The Urban Social Forum is an annual event organized by an Indonesian NGO Kota Kita (a city for all) to give Indonesian civil society an opportunity to connect with others in their field, raise awareness about pressing urban issues and give grassroots initiatives the opportunity to promote their causes to a national audience. The 2016 event has strong representation of a young generation of social activists, the disabled community, women, the urban poor, the sexual minority, and civil society organizations from cities beyond Java.

Following the Forum, UNESCO Office Jakarta and Kota Kita launched a collaborative initiative on Participatory Data for a Disability-Inclusive City. The project uses an innovative data-collection methodology focusing on disability in urban setting, which will enable neighborhood-level mapping of disability and support the development of advocacy tools to strengthen the voices of persons with disabilities in local policy-making. The approach will be piloted in the city of Solo, Indonesia, with a view to developing a scalable model that can be adopted by other cities in the country and around the world, using such mechanisms as the Network of Mayor of Inclusive Cities and UNESCO’s Inclusive Policy Lab.

National Dialogue on Enhancing Social Inclusion in Public Policies in Malaysia and Timor-Leste

UNESCO Office Jakarta held a National Dialogue on Social Inclusion in Malaysia and Timor-Leste as a culminating event in the framework of the UNESCO-Malaysia initiative that brings together national stakeholders to assess and enhance social inclusion in public policies through the application of cutting-edge social science policy tools and methodologies. The project was implemented in three stages:

- **Policy Initiation Workshop**, organized to build policy assessment capacities by using innovative tools and methodologies, including the identification of data issues.
- **Policy assessment and revision**, undertaken by the National Working Group to apply the policy assessment tools to measure and revise specific policies for greater inclusiveness; and
- **National Policy Dialogue**, organized to present the major outputs and results of the policy revision process to a broad audience of national stakeholders, policy makers, the academic establishment and the media.



In Malaysia, the event was held on 22 March in collaboration with Universiti Kebangsaan Malaysia (UKM) with the support of the Ministry of Science, Technology and Innovation (MOSTI). Towards that end, the National Working Group, led by IKMAS decided to examine the National Policy on Science, Technology and Innovation (NPSTI) to assess in what way and to what extent it enhances social inclusion in research and innovation. The Report on Harnessing Talent towards an Inclusive Malaysia: An Assessment of the National Policy on Science, Technology and Innovation (NPSTI) in Enhancing Social Inclusion in Research and Innovation was presented at the National Dialogue.

In Timor-Leste the National Dialogues was held on 28 June 2016 in cooperation with Timor-Leste National Commission for UNESCO. The Inclusive Timor-Leste Project seeks to contribute to the social inclusion agenda. More specifically, it seeks to engage key stakeholders in a process of policy and data needs assessments in an effort to inform future policy revision processes. In Timor-Leste, the National Policy for Inclusion and Promotion of the Rights of People with Disabilities and the associated National Action Plan for People with a Disability were selected as the core documents for assessment.

Empowering the Youth through Sport in Timor-Leste: launching the second phase of the “Sport for Life” initiative

The energy of youth was on display from July 4th to 16th in Dili, Timor-Leste, where the “Sport for Life Youth Leadership Camp” brought together youth facilitators from all 13 municipalities of the country. They were trained to become facilitators themselves, to replicate the Sport for Life activities and to spread the positive influence of sport on youth development across the country, conducting the events at the sub-municipal level, so that every young person is given the opportunity to engage.

As a partnership between UNESCO and an international NGO SportImpact, Sport for Life initiative is designed to harness the power of youth to confront these challenges through sport. It builds the capacity of young women and men to become change-makers. The Sport for Life started in 2015 as a series of workshops delivered by SportImpact with UNESCO's support in all municipalities of Timor-Leste, empowering the youth to develop solutions to their needs and dreams. In the second phase of the project launched in 2016, the focus shifted from municipal to sub-municipal level. To maintain a focus on local ownership, development and sustainability, the initiative followed a gradual empowerment strategy, where over time the project is handed over to local actors. The participants of the Youth Training Camp graduate as the facilitators to take Sport for Life to the sub-municipality level. In each sub-municipality they ran the five-day workshop to build the capacity of the local youth to organize sport events, followed by a one-day multi-sport event, co-organized with workshop participants and with as many local groups and organizations as possible. The event included all members of the community, especially hundreds of kids from the nearby schools.

Valorizing Evidence on Inclusive Social Development to Achieve the Sustainable Development Goals

UNESCO, with the support of MFIT, has developed a capacity-building project to support the implementation of the 2030 Agenda and, in particular, its inclusive social development goals in Brunei Darussalam, Malaysia and the Philippines. The project is designed to improve the availability, accessibility and usage (referred to as valorization) of research and evidence in inclusive policy and planning processes in these three target countries. The project will be carried out in four stages:

- Analysing challenges and opportunities for improved valorization of evidence in inclusive policy and planning;
 - Developing and supporting the application of concrete scenarios and operational protocols for valorization of evidence;
 - Running national interdisciplinary brokerage and capacity building platforms that connect knowledge producers, policy makers, social and economic working in the area of inclusive social development; and
 - Developing and deploying an online facility that enables sustained (within and beyond the lifetime of this project) co-innovation, crowdsourcing and systematic exchange between all stakeholder groups.
- In 2016, SHS Unit has conducted consultations with the National Commissions for UNESCO in the three target countries in order to agree on the project implementation schedule, time-frame, and the key participating stakeholders. The national projects are scheduled to be launched in 2017.



The Launch of UNESCO's Ethics Teachers Training Course in Kuala Lumpur, Malaysia

UNESCO played a pioneering role in global bioethics by setting up the Bioethics Programme in 1993, establishing independent expert bodies, such as the International Bioethics Committee and World Commission on the Ethics of Scientific Knowledge and Technology (COMEST), adopting unique international standard-setting instruments in the field, and building capacities of Members States to address bioethical challenges of the present and the future. The Ethic Teachers Training Course (ETTC) was developed by UNESCO and a group of experts from diverse cultural backgrounds to build the capacity of ethics educators on the methodology and pedagogy behind ethics teaching. The Course featured sessions focusing on two important aspects of bioethics: what to teach (content), and how to teach (pedagogy). The Programme of the Course included teaching demonstrations by the participants, followed by immediate constructive feedback from the experts and the fellow participants.

On 7-11 November, ethics educators from around the world came together at the Institute of Islamic Understanding Malaysia (IKIM) in Kuala Lumpur, to take part in UNESCO's ETTC. Held for the first time in the Southeast Asian region, this ETTC was a collaborative effort between IKIM and UNESCO Office Jakarta. Participants from Bangladesh, Belgium, Egypt, Fiji, India, Indonesia, Iran, Malaysia, Saudi Arabia and the United Kingdom shared experiences and engaged in debates from diverse cultural and faith traditions, including tackling complex questions:

1. **Is there a direct relation between faith and ethics education?**
2. **How can bioethics be taught in modern societies characterized by cultural and religious pluralism?**
3. **Can ethics education keep pace with the exponential advancements in science and technology?**

Multi-stakeholder consultations on Applied Sustainability Science Model to be tested through pilot projects

UNESCO Office Jakarta has spearheaded the application of sustainability science to address complex environmental issues that have profound social and economic implications for affected communities in Southeast Asia. On 10 May 2016, UNESCO Office Jakarta brought together a multidisciplinary group of stakeholders to review the model of sustainability science developed based on the recent experiences, and to further enrich it through the exchanges during the workshop. Funded through IFIT modality, this project has mobilized the experts from the University of Southampton and Indonesian universities to conduct research on the social dimension of climate change and environmental degradation within vulnerable communities in different regions in Indonesia. This ongoing research is designed to provide new knowledge on the social dimension of climate change.

Climate change is a major driver of social transformations in Indonesia, increasing vulnerability of communities facing natural disasters and hampering economic growth. The destructive trends of deforestation, forest fires, and peatland degradation have already placed Indonesia as one of the world's largest emitters of greenhouse gases.

UNESCO promotes the use of interdisciplinary research as a tool to obtain knowledge and apply it in developing national and sub-national policies on climate change adaptation and mitigation. Based on the developed model, UNESCO will pilot sustainability science projects in various communities across Indonesia.

CULTURE

Workshop on Developing Safeguarding Plans for Intangible Cultural Heritage

Within the framework of UNESCO Office Jakarta Regular Programme entitled 'Strengthening national capacities for the promotion and implementation of intangible cultural heritage in Timor-Leste', UNESCO Office Jakarta in cooperation with the State Secretariat of Arts and Culture of the Ministry of Tourism of Timor-Leste organized a "Workshop on Developing Safeguarding Plans for Intangible Cultural Heritage" in Dili, Timor-Leste from 6-9 September 2016, in which more than 60 participants representing central and district government officials, academics, cultural practitioners, youths, and NGOs attended the event. The objective of this workshop is to contribute to improving policies and strategies aimed towards safeguarding intangible cultural heritage in relevant policy areas (culture, education, environment, peace, etc.) within Timor-Leste. The National Parliament has supported the ratification of UNESCO 2003 Convention for the Safeguarding of the Intangible Cultural Heritage in their meeting in June 2015. In partnership with UNESCO Office Jakarta, the Government of Timor-Leste would like to receive further guidance for the ratification as well as nomination process, particularly for their intangible, but also the tangible cultural heritage.

"The Power of Culture: Supporting Community-Based Management and Sustainable Tourism at World Heritage Sites in Malaysia and Southeast Asia"

This project is a regional effort in the implementation of the UNESCO World Heritage and Sustainable Tourism (WH+ST) Programme, supported by MFIT. The objective of the project is to help each site develop a sustainable tourism strategy for each respective World Heritage site through broad stakeholder involvement. Furthermore, the project also aimed to provide resources and build capacity to plan, develop, and manage tourism efficiently, responsibly, and sustainably considering the World Heritage values (Outstanding Universal Values), the broader tourism destination, as well as local community context and needs. Publications on the project, sustainable tourism strategy for the pilot sites, identified actions of the strategy and five workshops were conducted within this project.

Three pilot sites featured in the project include:

- "Melaka and George Town, the Historic Cities of the Straits of Malacca" in Malaysia
- "The Rice Terraces of the Philippine Cordilleras" in the Philippines
- "Cultural Landscape of Bali Province: the Subak System as the Manifestation of the Tri Hita Karana Philosophy" in Indonesia.

"Enhancing fundamental freedoms through the promotion of the diversity of cultural expressions"

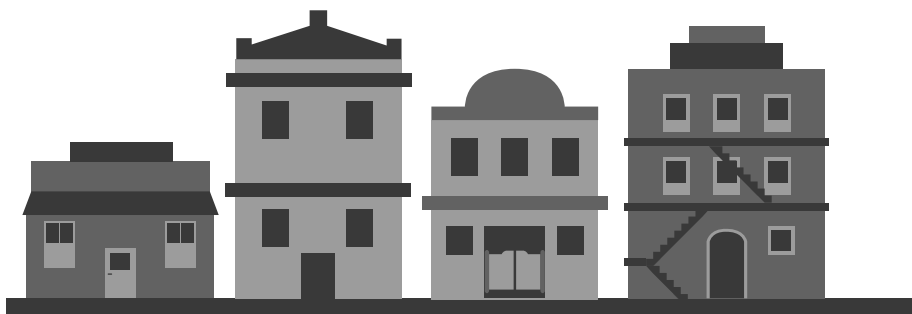
Under the framework of UNESCO's project 'Enhancing fundamental freedoms through the promotion of the diversity of cultural expressions' funded by the Swedish International Development Cooperation Agency (SIDA), a series of capacity-building activities on periodic reporting for the 2005 Convention¹ is being organized in 12 priority countries, with Indonesia being one of them. The aim of the capacity-building action is to strengthen institutional and professional capacities of governmental and civil society actors to monitor and report on policies and measures taken to protect and promote the diversity of cultural expressions as stipulated by the Convention.

1) The Convention on the Protection and Promotion of the Diversity of Cultural Expressions adopted in 2005 by the UNESCO General Assembly is an international standard setting instrument providing a framework for the governance of culture that is based on fundamental principles of freedom of expression, gender equality, openness and balance to other cultures and expressions of the world and on the complementary economic and cultural aspects of sustainable development as defined in Part 1 ("Objectives and guiding principles") of the Convention. The submission of a periodic report every four years after ratification/accession (quadrennial periodic reports) reporting on measures taken to implement the Convention is one of the obligations of all Parties to the Convention. Parties, particularly from developing countries, have expressed a number of challenges such as lack of relevant data and information required for evidence-based and transparent policy-making; limited capacity to assess and monitor the impact of policies and measures for the diversity of cultural expressions; fragile networking between governments and civil society.

IFIT Kota Tua - Old City, New Vision: First phase project for the revitalization of Kota Tua, Jakarta through sustainable tourism and heritage conservation

UNESCO Office Jakarta continues its efforts for the conservation and development of the Old City of Jakarta through the project “Old City, New Vision” focusing on:

- **Conservation:** a training-of-trainers workshop was conducted entitled “Caring for Our Heritage Building and Revitalizing Indonesia Heritage Districts” which aims to increase the capacities of architects and government staff involved in the conservation, revitalization and adaptation of heritage. Additionally, a House Call Heritage Clinic for Heritage Building Owners was established which brought assistance in conservation to 26 sites, the previous one was organized in 2015. Heritage Clinics are an innovative way to offer assistance by telephone or physical visit, to persons who are associated with heritage conservation. Conservation works were conducted and inaugurated on 29 March 2016 on the roof, façade, staircase and waterproof system in the 2 pilot sites Historia Food & Bar and Kedai Seni Djakarta, in Kota Tua
- **public awareness:** an exhibition “Kota Tua, Our Common Ground” held from 23 June - 30 July 2016 presented to the public at large the story of Kota Tua, the conservation issues, its living heritage, and activities, as well as the activities implemented within the framework of the UNESCO project. The exhibition was organized by UNESCO Office Jakarta, in cooperation with Pusat Dokumentasi Arsitektur (Documentation Center for Architecture - Indonesia), and LWG DMO Kota Tua. The exhibition was accompanied by 25 side events, including conferences, tours and visits, art workshops, heritage awareness, discovery of the communities and of their way of living.
- **community development:** From August 2015 to February 2016, on behalf of UNESCO, Urban Lab Universitas Taruma Negara Jakarta conducted a cultural mapping study on Kota Tua entitled “Vernacular city Kota Tua: Cultural identity in everyday urban heritage” with a view to identify cultural and natural resources which hold a potential for sustainable social and economic development through a local cultural and heritage based tourism industry. Following the recommendations and focus group discussions held at the beginning of 2016, UNESCO Office Jakarta developed the “Kota Tua Destination Branding” activity, which resulted in the design of promotion activities, such as a logo, orientation panels, tourist guide, and souvenirs. These activities are linked to the SDG No 11: Make cities and human settlements inclusive, safe, resilient and sustainable, especially 11.3: By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries and 11.4: Strengthen efforts to protect and safeguard the world’s cultural and natural heritage. They are also linked to the Midterm National Development Plan (RPJMN) 2015-2019 on Economic Independence, action 12: To build spatial and sustainable environment and action 14: build character of the potential of tourism.



Save the Borobudur World Heritage Site

Within the framework of UNESCO Extra-Budgetary Programme entitled 'Save the Borobudur World Heritage Site,' UNESCO Office Jakarta supports local creative industries from Borobudur and Yogyakarta at the Jakarta International Handicraft Trade Fair (INACRAFT) 2016. Three of UNESCO's assisted communities (Rumah Batik Jumputan, Batik Tulis Sojiwani and Batik Borobudur) from Borobudur and Prambanan participated in the exhibition.

More on the event: http://www.unesco.org/new/en/jakarta/about-this-office/single-view/news/unesco_jakarta_supports_local_creative_industries_at_the_int/

Capacity-Building for the Conservation of the Borobudur Temple Compounds within a Disaster Risk Reduction Framework

As part of UNESCO's continuing efforts on improving the state of Borobudur's stone conservation, in 2016, the efforts have been marked by the implementation of the project entitled "Capacity-Building for the Conservation of the Borobudur Temple Compounds within a Disaster Risk Reduction Framework". This was implemented by UNESCO Office Jakarta in close cooperation with the Borobudur Conservation Office (BCO) of the Indonesian Ministry of Education and Culture. Under the frame of this project, the "Mainstreaming DRR on Heritage Conservation Workshop" held on 26–27 September 2016 in Borobudur, Magelang, Central Java, Indonesia was conducted. The workshop objectives were to strengthen collaborative partnerships among temple conservators in Indonesia and to showcase various conservation techniques within disaster risk reduction mainstreaming attended by more than 50 key stakeholders attended the workshop, including representatives from the government officials, academics, national conservators, expert conservators from Germany, civil society as well as regional disaster management practitioners.

More about the workshop

http://www.unesco.org/new/en/jakarta/about-this-office/single-view/news/the_6th_year_support_of_the_government_of_germany_towards_th/

'First Phase Community Based Conservation of Rock Art for Sustainable Development at the Nino Konis Santana National Park, Lautém District, Timor-Leste

The Nino Konis Santana National Park, in the Lautém district, is home to more the 30 sites and hundreds of rock art images that date back thousands of years. Many of these sites are used by local communities for cultural practice to this day. Supported by the Federal Republic of Germany as part of the Federal Foreign Office's Cultural Preservation Program, this UNESCO project was implemented in collaboration with the State Secretariat of Arts and Culture of Timor-Leste. It aims to support community custodians and local and government agencies to undertake best practice conservation of the rock art of the Nino Konis Santana National Park, in order to safeguard this significant heritage, whilst generating sustainable tourism and development opportunities for local communities. Activities in this project include:



1. A survey of selected rock art sites at the Nino Konis Santana National Park was conducted to make a documentation and conservation analysis of the rock art sites, develop holistic management plans addressing conservation issues and provide support to the local custodians in the day-to-day conservation management of these areas.
2. Training workshop on the conservation and management of rock art sites, held on 22-23 January 2016 at the Cultural Centre of Los Palos in Lautém District, Timor-Leste.
3. Creation of a community guide to rock art safeguarding and management for local stakeholders. The publicity material was developed in three languages (English, Tetum and Fataluku – a local language in Lautem District) to promote the significance and conservation of the rock art sites. The launching of the publicity material was held on 23 November 2016 in Lautem District.

COMMUNICATION AND INFORMATION

Spreading the Right to Know on a Train Ride

In conjunction with the inaugural International Day for the Universal Access to Information, a community outreach campaign, led by the Indonesian Information Commission with the support from UNESCO Office Jakarta, was held on the popular Jakarta-Bogor commuter train line during a weekend to spread the message of the universal right to access publicly held information to the general public.

For more information about this campaign, please check

http://www.unesco.org/new/en/jakarta/about-this-office/single-view/news/spreading_the_right_to_know_on_a_train_ride/

Journalists Must Have a Safe Environment to Report on Human Rights

UNESCO Office Jakarta participated in the session on “Ethics and Professionalism in Reporting: Embracing Human Rights” during the ASEAN Intergovernmental Commission of Human Rights (AICHR) Regional Forum on Media and Human Rights in ASEAN. The two-day event reaffirmed AICHR’s readiness to engage with the media and to uphold its mandate as the primary human rights organ in ASEAN to ensure that fundamental freedoms are protected and promoted.

For more information about this event, please check

http://www.unesco.org/new/en/jakarta/about-this-office/single-view/news/journalists_must_have_a_safe_environment_to_report_on_human/

Information is Leverage to Help Achieve All Other SDGs

The World Forum for Media Development 2016 was held in Jakarta by Global Forum for Media Development, in partnership with the Indonesian Press Council at Multimedia Nusantara University in Tangerang and with the support from UNESCO. This forum was entitled: Decoding the Future: Rethinking Media for a New World. As part of the World Forum for Media Development taking place from 20-22 September 2016, a technical workshop was organized by UNESCO to discuss the SDG, specifically the SDG Indicator 16.10.2, which measures the number of countries that adopt and implement policy guarantees for public access to information. UNESCO has been tasked as the Custodian Agency for this indicator and is responsible for the global reporting of the target to the United Nations.

MAIN CHALLENGES

General

The number of activities and programmes carried out within the cluster countries significantly increased in 2016. While this increase meant more time and resources were needed, it also helped in strengthening the networks of partners and raised the profile of UNESCO within the various areas of competencies of UNESCO's programmatic works.

In the field, the change of the governance structure at certain ministries has created some delays in the implementation of the program, due to the handover within the ministries. The unpredictable hazard and natural disasters that occurred in some project areas have influenced the implementation of the project.

Natural Sciences

Asia, despite its lower level of urbanization, is home to 53 per cent of the world's urban population (UNDESA, 2014) and the region urbanisation rate is very fast. Six of the ten mega-cities in the world are in Asia and the Pacific region. This development model into urbanisation, raising the same global challenges on environmental issues and sustainability of resources management, is emphasised in the region.

Moreover, the trends on climate change impacts are predicted to be the strongest in this region with many countries among the most vulnerable. Therefore, the regional demand for sustainable solutions and advice on sustainable models for environmental conservation and water security, is very strong. Even though the Regional Science Bureau is supported by a strong network of experts within the UNESCO Category 2 Centres, Science UNESCO Chairs and National Commissions, there is still room for more expertise and capacity to be built, more partnerships to be developed, more networks to be grown for the region to achieve and deliver all SDGs. Other challenges encountered were difficulties in: a) identifying and securing reliable and worthwhile partnerships, b) the technical nature related to demonstration site and pilot project establishment, c) the coordination of partners and communication among them, especially when encountered with sensitive government-related issues, and d) limited available funds to work on activities in the cluster countries and ending of extra-budgetary funding.

Social and Human Sciences

Many of the activities of UNESCO Office Jakarta in various areas of Social and Human Sciences are designed as scalable models for the uptake by the national authorities for higher impact at the national level. Successful implementation of particular projects is not the ultimate objective of the SHS Programme; rather, the office continuously strives to disseminate the results of its activities broadly for the use of all potential stakeholders, nationally and within the broader Asia-Pacific region. In this effort, collaboration with a wide range of partners is an essential prerequisite. This includes the sister UN agencies, national policy institutes and think-tanks, other civil society organizations, as well as the private sector and naturally the national and local governments.



Funds in Trust

To support and to strengthen UNESCO's activities in Asia and the Pacific region, along with the lines of UNESCO's strategic programme objectives and priorities, UNESCO Office Jakarta works in partnership with the Government of Indonesia, Japan and Malaysia through Funds-in-Trusts.

IFIT (Indonesian Funds-in-Trust)

On the 27th September 2013, the Government of Indonesia (GoI) and UNESCO signed an agreement on the Indonesia/UNESCO trust fund for the support of education, sciences, culture, and communication sector. After the signature of the agreement, eight projects related to the sectors for a total amount of close to 4 Million USD were approved by the steering committee consisting of representatives of the Government of Indonesia and UNESCO.

The Indonesia Funds-in-Trust (IFIT) projects, implemented since early 2014, were designed in line with UNESCO's Medium-Term Strategy for 2014-2021 (document 37 C/4) and the associated UNESCO quadrennial plans and biennial budgets (Programme and Budget (C/5)). The projects are expected to support UNESCO's main objective which is to contribute to peace and security by promoting collaboration among nations through education, science, culture and communication in order to further universal respect for justice, the rule of law and human rights and fundamental freedom which are affirmed for peoples of the world, without distinction of race, sex, language or religion by the Charter of the United Nations.

The eight projects, primarily implemented in Indonesia with the Indonesian stakeholders are as following:

- 1. Promoting Adiwiyata Green Schools and Empowering Low Income Communities for the Sustainable Future of Indonesia, managed by the Education Unit**
- 2. Building Model for Disaster Resilient City in Indonesia: Tsunami Hazard which is managed by the DRRTIU Unit**
- 3. Ecological and Eco-hydrological Solutions for Sustainable Management in Indonesia and Asia Pacific Region is under the Natural Sciences Unit**
- 4. Building a Resilient Tropical Rainforest Heritage of Sumatra for Climate Change Mitigation and Biodiversity Conservation is also under the Natural Sciences Unit**
- 5. A Sustainable Future: Supporting Indonesia's Strategies to Address the Social Implications of Climate Change – managed by the Social and Human Sciences Unit**
- 6. Old City, New Vision: First phase project for the revitalisation of Kota Tua, Jakarta through sustainable tourism and heritage conservation is under the responsibility of Culture Unit**
- 7. Media Global Forum: The Role of Media in Realizing the Future We Want for All is managed by the Communication and Information Unit.**
- 8. Promoting Intercultural Dialogue Through Capacity Building Training for Museum Development at UNESCO World Heritage Sites in Indonesia and Islamic Republic of Afghanistan – under the Culture Unit**

Reports on these activities can be read under the Activities' chapter. (<http://dev.iucp-ift.org/>)

JFIT (Japanese Funds-in-Trust)

UNESCO has enjoyed a long-standing and solid cooperation with the Government of Japan. The Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT) deposited its first Funds-in-Trust in 1969 and the Ministry of Foreign Affairs followed in 1989. Japanese Funds-in-Trust (JFIT) is covering all the fields of UNESCO as education, natural sciences, social and human sciences, culture as well as communication and information, helping UNESCO to fulfil its mandate “Building peace in the minds of men and women”.

In Asia and the Pacific Region, JFIT has been serving to provide assistance to the implementation of activities in the field of natural sciences, with special attention to activities relating to water resources, their associated ecosystems, and marine sciences, as well as to human resources development in the field. Namely “Scientific Programmes on Global Challenges in Asia and the Pacific Region”, managed by UNESCO Office Jakarta taking its role as the Regional Sciences Bureau, has supported important activities in these areas and in UNESCO’s science programmes, including Man and the Biosphere (MAB) Programme, International Hydrological Programme (IHP) and Intergovernmental Oceanographic Commission (IOC).

The projects implemented in the year 2016 are as follows, of which four projects newly initiated during this year:

- UNESCO Biotechnology School in Asia
- Sustainability Transformation Across the Region (STAR)
- Fostering UNESCO Water and Environment Networks in the Asia-Pacific Region
- Bolstering Knowledge and Institutional Capacity for Ensuring Marine Biodiversity and Seafood Security (managed by the Secretariat of IOC/WESTPAC)
- Biosphere Reserves Interconnected in Diverse Global Environments for Sustainability in Asia and the Pacific (BRIDGES)
- International Hydrological Programme Water Informatics for Sustainability and Enhanced Resilience in Asia and the Pacific (WISER)
- COMprehensive Program to Enhance Technology, Engineering and Science Education in Asia (Phase V) (COMPETENCE)
- Through the continuous and comprehensive support from the Government of Japan and its stakeholders, JFIT Science has been benefitting the whole Asia and the Pacific Region, as well as underlining a catalytic role for the member states of UNESCO in the region.

Reports on these activities can be read under the Activities’chapter. <http://jfit-for-science.asia/>

MFIT (Malaysia Funds-in-Trust)

The Government of Malaysia and UNESCO have decided to establish the Malaysia-UNESCO FIT where the Government of Malaysia will provide USD 9 million for supporting the implementation, through UNESCO, of projects jointly selected under the “Malaysia-UNESCO Cooperation Programme” (MUCP). The establishment of the MUCP was announced by the Prime Minister of Malaysia, Hon. Dato’ Sri Mohd. Najib Tun Abdul Razak during the 35th session of UNESCO General Conference in 2009. The MFIT Agreement covers all areas of competence of UNESCO and stimulates South-South cooperation for the benefit of the Least Developed Countries (LDCs), SIDS in Asia and the Pacific and in support of the Priority Africa agenda of UNESCO, while building on Malaysian institutions and expertise.

Since its inception, 29 projects (including 3 management and promotional projects) have received financial support via the MFIT, 11 are being / have been implemented by this office. The projects implemented by this office are:

Education:

Promoting South-South Cooperation through Climate Change Education in Asian Pacific Small Island Developing States

Natural Sciences and DRR:

- Fostering Tsunami Preparedness, Response and Mitigation in the Indian Ocean Small Island Developing States and African Coast Countries
- Science Harnessed for ASEAN Regional Policy
- South-South Cooperation for Enhancing Science, Engineering and Technology Standards in Asia and the Pacific
- Upscaling water security to meet local, regional, and global challenges
- AP - FAST: Facility for Accelerating Science & Technology Knowledge Services for SDGs into National Development Plans

Social and Human Sciences

- Strengthening ASEAN Community 2015 through South-South Cooperation, Foresight and Capacity building on Inclusive Policy Development
- Valorizing Evidence on Inclusive Social Development to Achieve the Sustainable Development Goals
- Addressing environmental, social and ethical challenges of the annual haze in South East Asia: Bioethics and Sustainability Science in action

Culture

- The Power of Culture: Supporting Community-Based Management and Sustainable Tourism at World Heritage Sites in Malaysia and Southeast Asia
- Capacity Building for Disaster Risk Reduction of Heritage Cities in Southeast Asia (SEA) and Small Island Developing States in the Pacific

The MUCP has helped UNESCO to ameliorate the organization’s financial difficulties by expanding its programmes particularly to the LDCs, SIDS and to some extent Africa.

Reports on activities held with the support of MFIT can be read under the Activities’ chapter.

<http://www.mucp-mfit.org>

LIST OF PUBLICATIONS

EDUCATION

Assisting Timor-Leste in Advancing Education for All by Promoting the Right to Education for Out-of-School Children and Youth

Name of publisher: UNESCO

Year of publication: 2016

Capacity Development for Education for All (CapEFA) Timor-Leste Programme

Name of publisher: UNESCO

Year of publication: 2016

Strengthening Capacities of the Cluster Countries in Integrating the Principles of Education for Sustainable Development at the Policy and Institutional Levels

Name of publisher: UNESCO

Year of publication: 2016

Strengthening Indonesia in Developing a Customized Education Sector Planning Training Programme for Local Level Educational Planners

Name of publisher: UNESCO

Year of publication: 2016

Strengthening Learning in Early Childhood Care and Education in Timor-Leste

Name of publisher: UNESCO

Year of publication: 2016

Strengthening the Philippines in Providing Literacy Education for Girls

Name of publisher: UNESCO

Year of publication: 2016

NATURAL SCIENCES

i. Disaster Risk Reduction

"Air Turun Naik di Tiga Negeri" Tsunami in 3 Villages - Remembering 1950 Tsunami Ambon", education, preparedness and awareness booklet for Ambon City and the surrounding area, based on 28 eyewitness stories. www.iotic.ioc-unesco.org/1950ambontsunami/

Indian Ocean Wave Exercise 2016: Community Exercise on Tsunami Emergency in Indian Ocean Leaflet. www.iowave.info

ii. Policy and Capacity Building

Sugiura et al (2016), Sustainability Transformation Across the Region- Introduction to Sustainability Science Pilots projects implementation in Asia-Pacific, Proceedings ICRWER 2016, 5-9 June 2016, Kyoto, Japan.

Sugiura et al (2016), A GIS Based Approach for Soil Textural Mapping with Limited Local Data Sets: An Application to Upper Indus Basin in Pakistan, Proceedings ICRWER 2016, 5-9 June 2016, Kyoto, Japan.

iii. Water and Environment

The United Nations World Water Development Report 2016: Water and Jobs

Name of authors or editors: UN-World Water Assessment Programme

Name of publisher: UNESCO

Year of publication: 2016

SOCIAL AND HUMAN SCIENCES

The Report on Harnessing Talent towards an Inclusive Malaysia: An Assessment of the National Policy on Science, Technology and Innovation (NPSTI) in Enhancing Social Inclusion in Research and Innovation.

Report on the Assessment of National Disability Policy Framework in Timor-Leste: An outcome of the multi-stakeholder analytical process and with policy recommendations.

CULTURE

Crossroad of Culture – Bamiyan Borobudur, Catalogue

Name of publisher: UNESCO

Year of publication: 2016

Project brochure http://www.unesco.or.id/publication/clt/project_brochure.pdf

Sustainable Tourism Strategy: Cultural Landscape of Bali Province: the Subak System as a Manifestation of the Tri Hita Karana Philosophy (in English and Bahasa Indonesia).

Name of publisher: UNESCO

Year of publication: 2016

http://www.unesco.or.id/publication/clt/STS_BALI_BAHASA.pdf

Protecting the Rock Art of Tutuala – Nino Konis Santana National Park

Name of publisher: UNESCO

Year of publication: 2016

Guide Map Bali

http://www.unesco.or.id/publication/clt/guide_map_bali.pdf

Name of publisher: UNESCO

Year of publication: 2016

COMMUNICATION AND INFORMATION

<http://www.unesco.or.id/download/UNESCO-Interactive-FA.pdf>

LIST OF NETWORKS AND PARTNERS IN 2016

EDUCATION

Brunei Darussalam

1.Dr. Hajah Romaizah Binti Haji Md Salleh

Permanent Secretary (Core Education)

Ministry of Education

Brunei Darussalam

Telephone : +6732381133 Ext. 1509/1512

Email: romaizah.salleh@moe.gov.bn

2.Haji Aminuddin Bin Mohd Yaakub

Senior Education Officer

International Affairs Unit,

Ministry of Education

Brunei Darussalam.

Telephone : +6732381256

Fax: +6732380703

Email: aminuddin.yaakub@moe.gov.bn

Indonesia

1.Ministry of Education and Culture

Bureau of Planning and International Cooperation

Floor 7, Building C

The Ministry of Education and Culture

Jl. Jend. Sudirman, Senayan, Jakarta Indonesia

Contact Person: Dr. Suharti (head)

Email: suharti@kemdikbud.go.id

Contact Person: Drs. Wowon Widaryat, MSi (Director for the Management of Primary School

E-mail: C/O yonoiryono@gmail.com; triwa.ningsih@yahoo.com

2. Indonesian National Commission for UNESCO/

Ministry of Education and Culture

Building C Floor 17

Jl. Jend Sudirman, Senayan Jakarta, Indonesia

Email: kniu@kemdikbud.go.id

Contact Person: Ms. Desi Elvera Dewi (Head of Secretariat)

Email: Desi.elvera@kemdikbud.go.id

Malaysia

Malaysia Ministry of Education

Office of the Secretary-General

Level 8, Block E8, Complex E,
Federal Government Administrative Center
62604 Putrajaya, Malaysia
Contact Person: Ms. Maya Sofia Apendi
Email: maya.sofia@moe.gov.my

Malaysian National Commission for UNESCO

Ministry of Education

Policy & International Relations Division

Level 7, Block E8, Complex E,
Federal Government Administrative Center
62604 Putrajaya, Malaysia
Contact Person: Mr. Adib Rahman
Email: adib.rahman@moe.gov.my

Institute of Climate Change

Universiti Kebangsaan Malaysia

Earth Observation Center Building,
43600 UKM Bangi, Selangor Darul Ehsan, Malaysia
Contact Person: Assoc. Prof. Dr. Mohd Nizam Mohd Said
Email: m.n.said@ukm.edu.my

Philippines

Department of Education

International Cooperation Office

DepED Complex, Meralco Avenue, Pasig City 1600, Philippines
Contact Person: Ms. Loren Alyssa Campena
Email: ico@deped.gov.ph

UNESCO National Commission of the Philippines

Ground Floor, Department of Foreign Affairs Building
2330 Roxas Boulevard, Pasay City, Philippines
Contact Person: Ms. Lila Ramos Shahani
Email: secretariat@unesco.gov.ph

Korea International Cooperation Agency Philippine Office

c/o Embassy of Korea, 29/F Petron Megaplaza,
358 Sen. Gil Puyat Avenue, Makati, Philippines
Contact Person: Ms. Maria Regina Arquiza
Email: regina_talon@yahoo.com

**Southeast Asian Ministers of Education Organisation
Regional Center for Educational Innovation and Technology**

SEAMEO INNOTECH, Commonwealth Avenue,
Diliman, Quezon City 1101, Philippines
Contact Person: Dr. Ramon Bacani
Email: info@seameo-innotech.org

Psychological Association of the Philippines

Room 210, 2/F Philippine Social Science Center,
Diliman, Quezon City, Philippines
Contact Person: Dr. Pia Anna Ramos
Email: piaramos@gmail.com

West Visayas State University

Center for Research and Innovations in Science and Mathematics Education

Luna Street, La Paz, Iloilo City, Philippines
Contact Person: Dr. Elvira Arellano
Email: elvie_a2001@yahoo.com

National Organization of Science Teachers and Educators, Inc.

c/o CRISMED, West Visayas State University

Luna Street, La Paz, Iloilo City, Philippines
Contact Person: Dr. Purita Bilbao
Email: purit_bilbao@yahoo.com

University of the Philippines-Visayas Tacloban College

Division of Social Sciences (Psychology)

Magsaysay Boulevard, Tacloban City, Leyte, Philippines
Contact Person: Prof. Rowena Guiang
Email: iska83@yahoo.com

University of the Philippines-Visayas

College of Arts and Sciences

Division of Social Sciences (Psychology)

Miagao 5023, Iloilo, Philippines
Contact Person: Prof. Johnrev Guilaran
Email: jbguilaran@up.edu.ph

Embassy of Japan in the Philippines

2627 Roxas Boulevard,
Pasay City 1300, Philippines
Contact Person: Mr. Koji Otani
Email: koji.otani-2@mofa.go.jp

Department of Health

National Centre for Mental Health

Nueve de Pebrero Street, Mauway,
Mandaluyong City, Philippines
Contact Person: Ms. Thelma Singson-Barrera, RN
Email: thelmabarrera617@yahoo.com.ph

**Japan Disaster Reconstruction Design and Management
Disaster Information Management and Public Collaboration Division
International Research Institute of Disaster Science**

Tohoku University
468-1-S304 Aoba, Aramaki, Aoba-ku, Sendai City,
Miyagi Prefecture 980-0845, Japan
Contact Person Dr. Aiko Sakurai
Email: sakurai@irides.tohoku.ac.jp

Timor-Leste

Timor-Leste Ministry of Education

Vila Verde, Dili
Timor-Leste

Contact:

Mr. Antoninho Pires
Director General, General Directorate for Policy, Planning & Partnership

Ministry of Education

Vila Verde, Dili, Timor-Leste

Email: antoninho.pires@moe.gov.tl; antoninhopires@hotmail.com
Mobile: +670-77235948
National Directorate for Recurrent Education
Ministry of Education
Vila Verde, Dili
Timor-Leste

Contact:

Mr. Miguel Godinho Martins
Director, National Directorate for Recurrent Education
SKB Building, Vila Verde, Dili, Timor-Leste
Email: Miguel.godinho@moe.gov.tl
Mobile: +670-77304367

**National Directorate for Technical Vocational Secondary Education
Ministry of Education**

Vila Verde, Dili
Timor-Leste

Contact:

Mr. Marcelo Caetano de Araujo
Ministry of Education Building
Vila Verde, Dili, Timor-Leste

Timor-Leste National Commission for UNESCO**c/o NatCom Office****INFORDEPE Compound, Balide**

Dili, Timor-Leste

Contact:

Ms. Angelina Sarmiento

Secretary General

Timor-Leste National Commission for UNESCO

NatCom Office, INFORDEPE Compound

Balide, Dili, Timor-Leste

Mobile: +670-77240107

Email: tlnationalcom@gmail.com; skiukaikik@yahoo.com

National Institute for Training of Teachers and Education Professionals (INFORDEPE)**Ministry of Education****INFORDEPE Compound, Balide**

Dili, Timor-Leste

Contact:

Mr. Deolindo da Cruz

President, INFORDEPE

c/o INFORDEPE Compound

Balide, Dili, Timor-Leste

Mobile: +670-77312345

Email: lindocruz13@yahoo.com

Natural Sciences**Asia Pacific Centre for Ecohydrology (APCE) UNESCO Category II Water Centre****Year of establishment: 2014**

Contact person: Dr. Ignasius Sutapa

Position: Director

Address: Cibinong Science Center, Jl. Raya Bogor Km 46, Cibinong, Bogor, Jawa Barat, Indonesia

ignasdass@gmail.com

Indonesian Institute of Sciences (LIPI), Research Centre of Limnology**Year of establishment:**

Contact person: Prof. Dr. Ir. Gadi Sri Haryani

Position: Senior Researcher

Address: Cibinong Science Center, Jl. Raya Bogor Km 46, Cibinong, Bogor, Jawa Barat, Indonesia

gadi001@lipi.go.id; gadi@limnologi.lipi.go.id

MAB National Committee, Indonesia

Year of establishment:

Contact person: Prof. Dr. Ir.Y. Purwanto

Position: Executive Director

Address: Gedung Kusnoto Lantai 4, Jl. Ir. H. Juanda No. 18, Bogor 16002, Indonesia

HELP Davao Network, Philippines

Year of establishment: 2016

Contact person: Dr Anthony C. Sales

Position: HELP Davao Network / Department of Science and Technology Regional Office XI

Address: Quezon City, Metro Manila, the Philippines

APSARA (Authority for the Protection and Management of Angkor and the Region of Siem Reap) and UNESCO Phnom Penh Office

Year of establishment: 2016

Contact person: Maria Iniguez De Heredia

Position: consultant UNESCO Phnom Penh

Address: Phnom Penh, Cambodia

University**Bogor Agricultural University (IPB), Indonesia**

Department of Geophysics and Meteorology, Faculty of Mathematics and Sciences

Year of establishment:

Contact person: Prof. Hidayat Pawitan

Position: Senior Lecturer

Address: Jalan Meranti, Kampus IPB Darmaga Bogor, Bogor, Indonesia hpawitan@gmail.com

University of Timor, Indonesia**Department of Biology, Faculty of Teacher Training and Education**

Year of establishment: 2016

Contact person: Ms. Maria Yustiningsih

Position: Lecturer

Address: Jl. Eltari KM 09 Kefamenanu, East Nusa Tenggara, Indonesia yyustiningsih@gmail.com

University of Brawijaya, Indonesia**Laboratory of River and Wetlands, Faculty of Engineering**

Year of establishment: 2016

Contact person: Dian Sisinggih Ph.D

Position: Lecturer and Researcher

Address: Jl. MT. Haryono 167 Malang 65145, Indonesia singgih@ub.ac.id

University of Indonesia**Research Center for Climate Change**

Year of establishment: 2015

Contact person: Prof. Jatna Supriatna PhD

Position: Chairman

Address: Rektorat Building 8, 5th fl., Kampus UI Depok Universitas Indonesia, Depok, West Java, 16424, Indonesia

Universiti Kebangsaan Malaysia UKM (LESTARI)**Institute for Environment & Development**

Year of establishment: 2015

Contact person: Prof Dato' Dr. Mazlin bin Mokhtar (LESTARI UKM) / Dr Rahmah Elfithri (LESTARI UKM)

Position: Deputy Vice Chancellor / Research fellow

Address: Selangor, Malaysia

University of North Sumatra, Faculty of Law

Year of establishment: 2016

Contact person: Prof Syamsul Arifin

Position:

Address: Jl. Dr. T. Mansur No. 9, Medan 20155, Sumatera Utara, Indonesia

National University of Sciences and Technology, Pakistan

Year of establishment: 1991

Contact person: Dr HF Gabriel

Position: Professor

Address: 44000-NUST HQ- Scholars Avenue- Islamabad, Pakistan

University of Engineering and Technology, Pakistan

Year of establishment: 1923

Contact person: Prof Habib-ur-Rehman

Position: Chairman

Address: G.T. Rd, Lahore 54890, Pakistan

International Center for Biotechnology (ICBiotech)

Year of establishment: 1978

Contact person: Prof Takuya Nihira

Position: Director

Address: Osaka University, International Center for Biotechnology (ICBiotech) 2-1 Yamadaoka, Suita 565-0871 Osaka, Japan. TEL: +81-6-6879-7455 / FAX: +81-6-6879-7454

NGO**Indonesia Global Compact Networks (IGCN)**

Year of establishment: 2016

Contact person: Y. W. Junardy

Position: President Director

Address: Menara Rajawali 6th Floor, Jl. Dr. Ide Anak Agung Gde, Mega Kuningan Jakarta junardy@rajawali.com

Habitat For Humanity Indonesia

Year of establishment: 2016

Contact person: Eddy Sianipar

Position: Senior Manager for Strategic Project and Program Supports

Address: The Belezza Shopping Arcade Lt. 2 Unit 25&27, Jl. Let. Jend. Soepeno No 34 Arteri Permata Hijau, Jakarta. eddy.sianipar@habitatindonesia.org

Re.Mark Asia

Year of establishment: 2015

Contact person: Mr Dwi R. Muhtaman, PhD

Position: President Director

Address: Jl. Ciremai Ujung No 17A, Bogor, West Java, Indonesia

Consultancy Firms

DHI Water and Environment

Year of establishment: 2015

Contact person: Mr Joshua Van Berkel

Position: DHI Brunei Country Manager

Address: Oleos 2 Building 5th Floor, Jl.Kebagusan 1 No.6, Kebagusan Pasar Minggu, Jakarta Selatan 12740, Indonesia

Corporates

PDAM Tirtanadi North Sumatra, Indonesia

Year of establishment: 2014

Contact person: Ir. Sutedi Rahardjo

Position: President Director

Address: Jl. Sisingamangaraja No.1, Medan, Sumatera Utara, Indonesia

IH&MD Heritage Tourism Consultants Co

Year of establishment: 2015

Contact person: Prof Ivan Anthony S. Henares

Position: Assistant Professor University of the Philippines, Diliman

Address: Quezon City, Metro Manila, the Philippines

Social and Human Sciences

Network of Mayors for Inclusive Cities in Indonesia

UNESCO Chair in Bioethics Network

UNESCO Chair in Human Rights Network

STAFF

DIRECTOR'S OFFICE

Mr. Shahbaz Khan

Director and Representative
s.khan@unesco.org

Ms. Felicia Angelina

Secretary
f.angelina@unesco.org

Ms. Rosinta Hutahuruk

Public Information Assistant
r.hutahuruk@unesco.org

EDUCATION

Mr. Gunawan Zakki

National Officer for Education
g.zakki@unesco.org

Ms. Ester Dina Sihombing

Programme Assistant
e.sihombing@unesco.org

Ms. Juwita Saragih

Admin Assistant
Email: j.saragih@unesco.org

Ms. Lisma Marpaung

Administrative Assistant
l.marpaung@unesco.org

Mr. Marmon A. Pagunsan

Consultant
ma.pagunsan@unesco.org

Ms. Nurhajati Sugianto

Administrative Assistant
n.sugianto@unesco.org

Ms. Rusyda Djamhur

Administrative Assistant
r.djamhur@unesco.org

NATURAL SCIENCES

Ms. Adhe L. Wulandari

Project Assistant
Email: al.wulandari@unesco.org

Ms. Ai Sugiura

Consultant
Email: a.sugiura@unesco.org

Ms. Aulia Rahmawati

Project Assistant
Email: a.rahmawati@unesco.org

Ms. Chandrasa Edhityas Sjamsudin

Consultant
Email: ce.sjamsudin@unesco.org

Ms. Dinanti Erawati

Admin Assistant
Email: d.erawati@unesco.org

Ms. Fitrie A. Nurritasari

Project Assistant
Email: fa.nurritasari@unesco.org

Mr. Hanafi

Admin Assistant
Email: h.hanafi@unesco.org

Mr. Indradi Widianto

Project Assistant
Email: i.widyanto@unesco.org

Ms. Joana Vitorica Onaindia

Consultant
Email: j.vitorica-onaindia@unesco.org

Mr. Ramadian Ganni Mulya

Graphic Designer
Email: gr.mulya@unesco.org

Ms. Riffa Hadiya Santi

Admin Assistant
Email: r.santi@unesco.org

Ms. Siti Rachmania

Senior Programme Assistant
Email: s.rachmania@unesco.org

Ms. Trita Katriana

Project Officer
Email: t.katriana@unesco.org

Ms. Vidyani Achmad

Secretary
Email: v.achmad@unesco.org

Mr. Wen Zhen Cai

Intern
wz.cai@unesco.org

DISASTER RISK REDUCTION**Mr. Ardito M. Kodijat**

National Program Officer
Email: a.kodijat@unesco.org

Mr. Bustamam

Project Assistant
Email: b.koetapangwa@unesco.org

Ms. Fiona Saroinsong

Volunteer

Ms. Laura Bowen

Volunteer

Ms. Sella Octavia

Admin Assistant
Email: s.octavia@unesco.org

Mr. Tam Hoang

Australian Volunteers for
International Development (AVID)

Ms. Yuniarti Wahyuningtyas

Programme Assistant
Email: y.wahyuningtyas@unesco.org

Social and Human Sciences

Mr. Irakli Khodeli
Programme Specialist for Social and Human Sciences
i.khodeli@unesco.org

Ms. Ade Sandra

Administrative Assistant
a.sandra(at)unesco.org

Ms. Ainun Fadhila Kusuma Wardhani (Dhila)

Administrative Assistant
a.wardhani(at)unesco.org

Ms. Cita Ekanijati

Project Assistant
c.ekanjati(at)unesco.org

Ms. Riana Puspasari

Programme Assistant
r.puspasari(at)unesco.org

Ms. Rhiezka Aulia

Programme Assistant UNPRPD
r.aulia(at)unesco.org

CULTURE

Mr. Bernards Alens Zako
Programme Specialist for Culture
Email: ba.zako@unesco.org

Ms. Asanti Astari
Project Assistant
Email: a.astari@unesco.org

Ms. Christa Hardjasaputra
Administrative and Project Assistant
Email: c.hardjasaputra@unesco.org

Ms. Cilik Tripamungkas

Administrative Assistant
Email: c.tripamungkas@unesco.org

Ms. Diana Setiawati

Project Coordinator

Email: d.setiawati@unesco.org

Ms. Wieske Octaviani

Programme Assistant

Email: w.octaviani@unesco.org

Ms. Siti Halimah

Administrative and Project Assistant

Email: s.halimah@unesco.org

COMMUNICATION AND INFORMATION

Mr. Ming-Kuok Lim.

Advisor for Communication and Information

Email: mk.lim@unesco.org

Ms. Kartika Budhi Wijayanti

Project Assistant

Email: k.budhi-wijayanti@unesco.org

ADMINISTRATION**Mr. Moumouni Saadou**

Finance & Administrative Officer

Email: m.saadou@unesco.org

Ms. Aurora Augustina Harahap

Administrative Clerk

Email: a.harahap@unesco.org

Mr. Budi

Messenger/Photocopy operator

Email: b.budi@unesco.org

Mr. Cipta Yama Tusanda

Information Computer and Technology Assistant

Email: cy.tusanda@unesco.org

Ms. Dina Maswar

Administrative Support

Email: d.maswar@unesco.org

Ms. Elina Rahmita Sofian

HR/Administrative Assistant

Email: er.sofian@unesco.org

Mr. Irman Hidayat

Information Communication and Technology Support

Email: i.hidayat@unesco.org

Ms. Juliana Santosdjati

Finance Assistant

Email: j.santosdjati@unesco.org

Mr. Mujanto Basri

Driver

Email: m.basri@unesco.org

Mr. Permana Anhar

Senior Driver/General Clerk

Email: p.anhar@unesco.org

Mr. Mujanto Basri

Driver

Email: m.basri@unesco.org

Mr. Ronitua Siregar

Driver

Email: r.siregar@unesco.org

Ms. Tina A. Soekaton

Registry Clerk

Email: ta.soekaton@unesco.org

Ms. Tjoet Rini Setiowatie

Budget and Operations Assistant

Email: tr.setiowatie@unesco.org