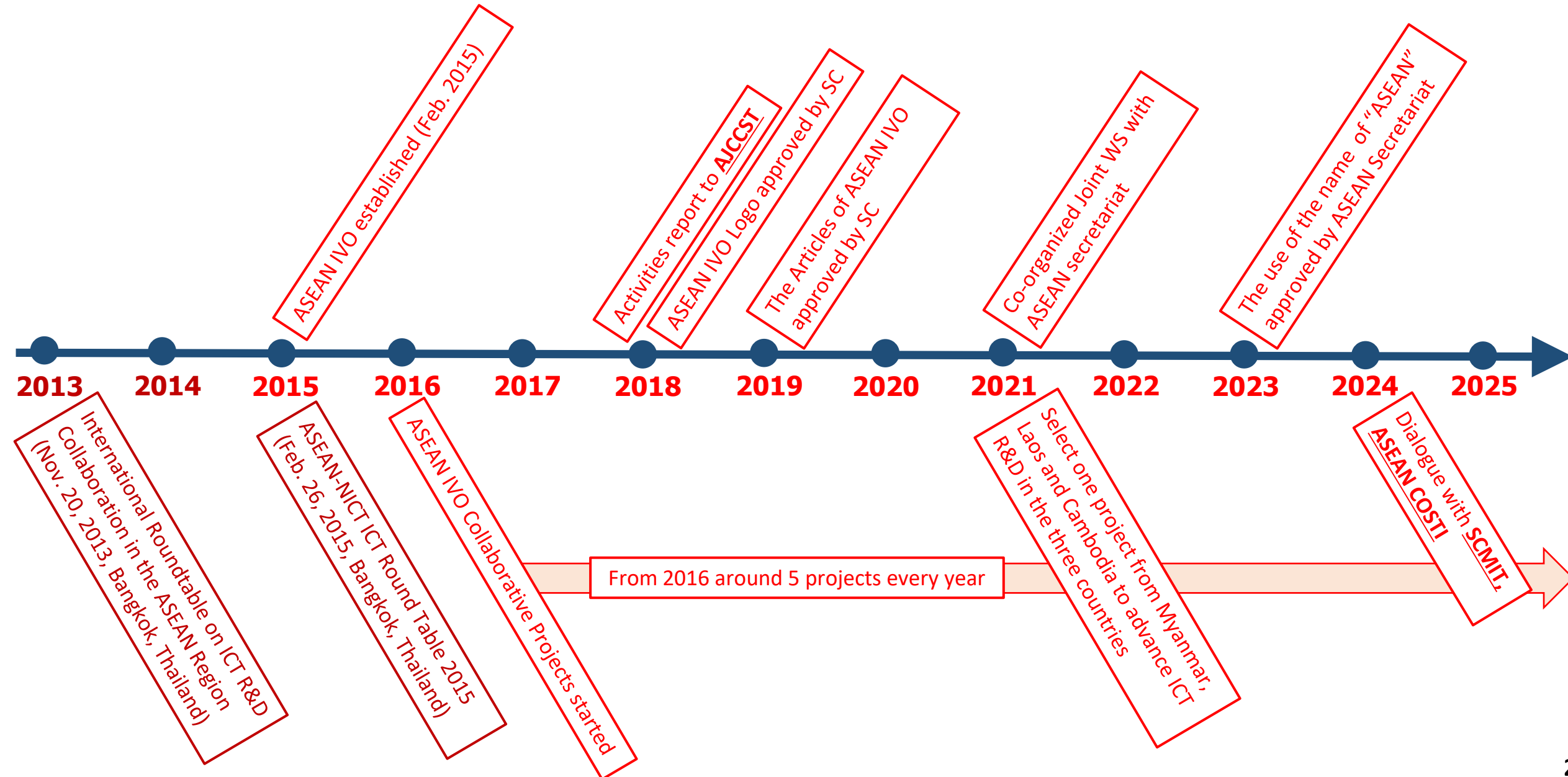


ASEAN IVO 10 Years of Activities

**EMOTO, Hiroshi
ASEAN IVO Secretariat
NICT, Japan
2025.9**

ASEAN IVO HP: https://www.nict.go.jp/en/asean_ivo/index.html



Preparation: 2013

International Roundtable on ICT R&D Collaboration in the ASEAN Region 2013.11.20, Bangkok, Thailand

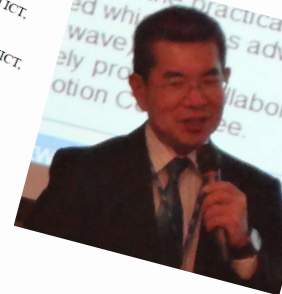
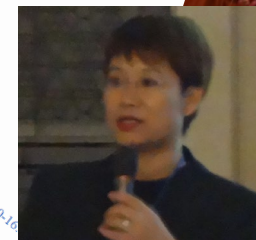
Participants: 16 institutes, 25 people



ASEAN-NICT ICT Round Table 2015

2015.2.26, Bangkok, Thailand

CT ICT Round Table 2015
Program



- ASEAN IVO established
- February, 2015
- Initial members: 23 institutes
- First statement published

ICT Virtual Organization of ASEAN Institutes and NICT
(https://www.nict.go.jp/en/asean_ivo/about_asean_ivo.html)

ICT Virtual Organization of ASEAN Institutes and NICT

"ICT Virtual Organization of ASEAN Institutes and NICT (ASEAN IVO)" is a global alliance of ICT R&D institutes and universities in the ASEAN region and Japan. The initial idea was mentioned at the first Round Table, "International Roundtable on ICT R&D Organization in the ASEAN Region" held in 2013, and a proposal to establish the Organization was given and approved in the second Round Table, "ASEAN-NICT ICT Round Table 2015".

Goals

The mission of ASEAN IVO is to seek and identify strategic ICT research areas in the ASEAN region, and promote collaborative projects in them.

This will provide the optimal approach to strengthen partnerships of international collaboration and cooperation throughout the ASEAN region, with the view to solving common social challenges such as communication limitations in rural areas and disaster situations, language barriers, network security, infrastructure, energy, agriculture, and more.

With this in mind, ASEAN IVO is to work as a platform for proposals from member organizations and actively review, thus opening a channel of communication about ongoing research and potential collaborations, and from that promoting the international alliance amongst universities and research institutes in the ASEAN region and Japan.

Members

Membership is open to institutes and universities located in the ASEAN region. Initial members were participants in the 1st and 2nd Round Table meetings, including NICT, but membership is not limited to these participants.

Activities

1. Dialogue on the priorities for ICT research fields, addressing the overarching needs of the ASEAN region.
2. Fostering international collaborative projects such as research, field trials, etc.
3. Resourcing exchange, etc.
4. Hosting academic workshops, exhibitions, etc.
5. Other related activities.
6. To encourage and facilitate these activities, a call will periodically be made to ASEAN IVO members for proposals for any of the above, financial support to be offered by NICT.

Steering Committee

1. A steering committee is being formed from the organizations. Each country would have one or two representatives.
2. The steering committee will be responsible for reviewing proposals for joint or collaborative R&D projects and providing feedback.
3. The steering committee will also be responsible for promoting their activities by means of e-mail communication and face-to-face meetings.



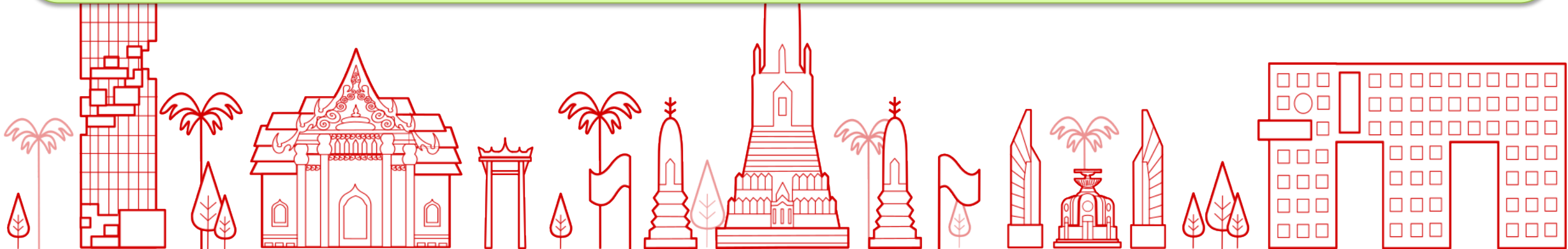
ASEAN IVO

is a global alliance of ICT R&D institutes and universities in the ASEAN region and Japan, it is operated and represented by a Steering Committee of representatives from 10 ASEAN countries and Japan.

Established in Feb. 2015 with 23 institutes in ASEAN region as initial members.

Mission:

is to seek and identify strategic ICT research areas in the ASEAN region, and promote collaborative projects in them.

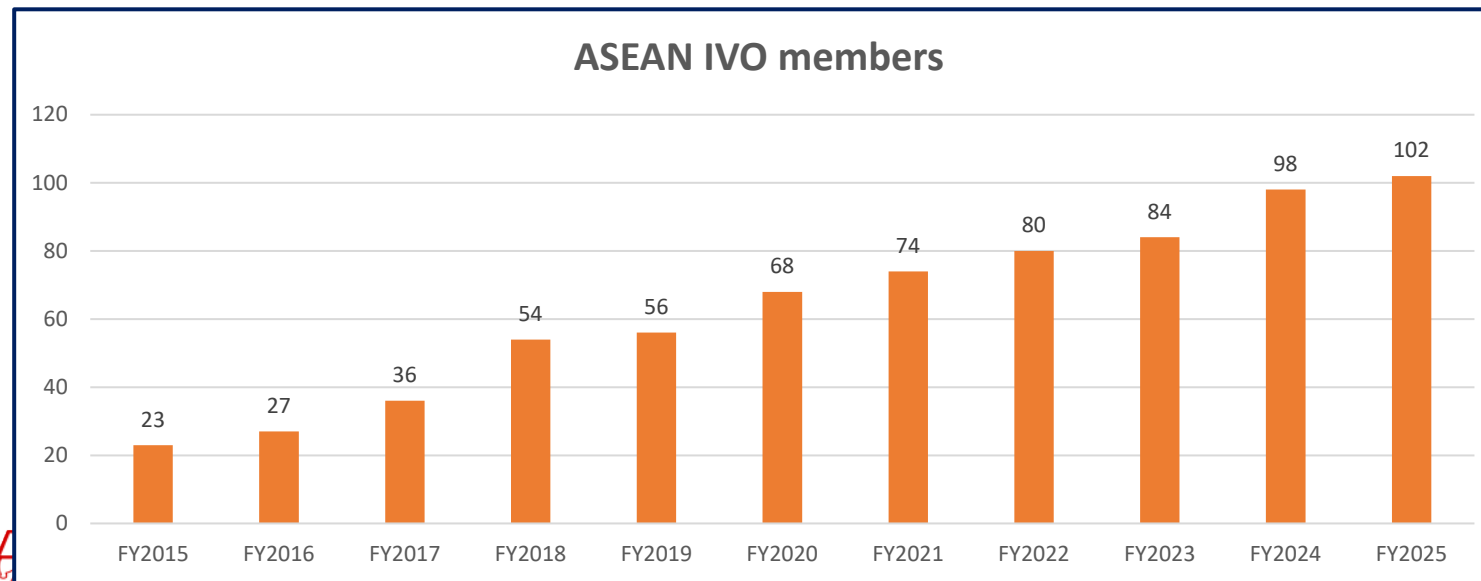


Members:

Country: 10 countries of ASEAN region + Japan

Institution: 102 institutions as for 2025.9.

(BRN: 2, KHM: 2, IDN: 16, LAO: 2, MYS: 21, MMR: 8, PHL: 9, SGP: 6, THA: 14, VNM: 19, JPN: 3)
(https://www.nict.go.jp/en/asean_ivo/members.html)



Annual

ASEAN IVO Forum

The Forum provides a place for all ASEAN IVO members to exchange ideas, discuss R&D topics and coordinate projects. Any and all members of ASEAN IVO can apply for the Forum.

2015. 11: Kuala Lumpur (Malaysia)	2016. 11: Hanoi (Vietnam)	2017. 11: Bandar Seri Begawan (Brunei)
2018. 11: Jakarta (Indonesia)	2019. 11: Manila (Philippines)	2020. 11: Online
2021. 11: Online	2022. 11: Bangkok (Thailand)	2024. 11: Vientiane (Lao PDR)
2024. 11: Phnom Penh (Cambodia)	2025. 11: Singapore (Planning)	

ASEAN IVO Project

at minimum 2 institutions total, and from at least 2 different countries in the ASEAN region (Max.: 2 years)

FY2016: 8 projects	FY2017: 5 projects	FY2018: 6 projects	FY2019: 4 projects
FY2020: 4 projects	FY2021: 4 projects	FY2022: 5 projects	FY2023: 6 projects
FY2024: 5 projects	FY2025: 5 projects		

Total: 52 projects

ASEAN IVO Steering Committee

To decide the R&D topics, operate the annual events, select the projects.

(Steering Committee members are from 10 ASEAN countries and Japan, they are senior researcher, specialist, professor, etc.)

To promote the ICT R&D, the Forum provides a place for all ASEAN IVO members to exchange ideas, discuss R&D topics and coordinate projects. Any and all members of ASEAN IVO can apply for the Forum.



2015.11.26, KL, Malaysia



2016.11.24, Hanoi, Vietnam



2017.11.23, Brunei Darussalam



2018.11.27, Jakarta, Indonesia



2019.11.20, Manila, The Philippines



2020.11.25 – 2021.1.11, Online
2021.11.18 – 2022.1.11, Online



2022.11.29, Bangkok, Thailand



2023.11.15, Vientiane, Lao PDR

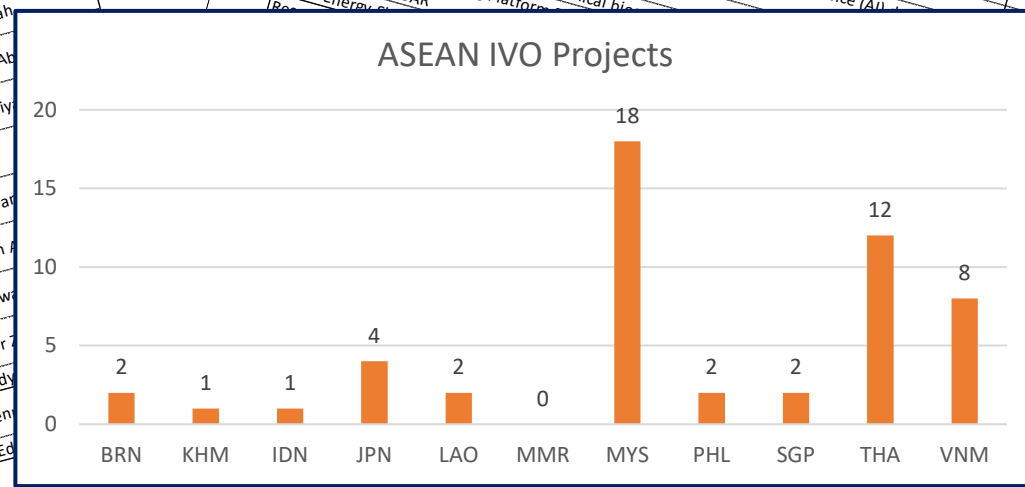


2024.11.6, Phnom Penh, Cambodia

ASEAN IVO Projects

From core research to real world application, ASEAN IVO projects focus on a broad range of topics in the field of ICT. Particularly with regards to providing solutions for specific regional needs or environmental or social problems, great emphasis is placed on not just fundamental research but practical solutions.

Country	Projects
BRN	2
KHM	1
IDN	1
LAO	2
MMR	0
MYS	18
PHL	2
SGP	2
THA	12
VNM	8
JPN	4
Total	52



2016-2025

- Total Projects: 52
- Institutions: 113
- Researchers: 611
- Finished Projects: 38



2018 Project:

NAPC: Networked ASEAN Peat Swamp Forest Communities



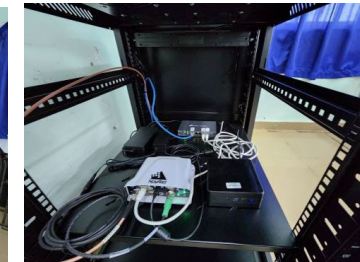
2022 Project:

Visual IoT Network for Environment Protection and Disaster Prevention



2021 Project:

Resilient Artificial Intelligence of Things (AIoT) Green Energy System with Real-time Solution for Effective Aquaculture (REAS-SEA)



2023 Project:

Research and development for precise positioning with Artificial Intelligence (AI) during ionospheric disturbances in low-latitude region in ASEAN

Submission History 2016-2025

Country/Year	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
BRN	0	3	3	2	3	3	2	3	0	2	21
KHM	1	0	0	0	0	0	0	0	1	0	2
IDN	0	3	1	8	2	2	3	2	6	4	31
LAO	0	0	2	0	0	0	0	1	2	0	5
MMR	0	2	0	0	2	2	0	0	1	1	8
MYS	8	8	17	42	14	14	18	16	22	13	172
PHL	0	2	2	2	3	3	0	0	3	0	15
SGP	2	1	0	1	0	0	0	0	0	0	4
THA	1	4	5	3	4	4	3	6	2	4	36
VNM	4	4	6	6	4	4	3	4	2	1	38
JPN	1	1	0	0	2	2	0	0	1	1	8
Total (Year)	17	28	36	64	34	34	29	32	40	26	340

Reference (2016-2025) :

Total Project :52

Ratio: 52/340=15.29%

Contribution to AJCCST

The secretariat of ASEAN IVO is reporting the activities into AJCCST (Meeting of the ASEAN - JAPAN Cooperation Committee on Science and Technology) from 2018 every year.

**The 14TH MEETING OF THE ASEAN-JAPAN COOPERATION COMMITTEE
ON SCIENCE AND TECHNOLOGY (AJCCST-14)**
19 June 2025, Jakarta – Indonesia
13:00 - 14:45 PM (Jakarta Time, GMT+7)
Hosted by Indonesia

Meeting Co-Chairs
ASEAN COSTI Co-Chair: H.E. Dr. Ir. Boediasoeti Ontowirjo, ASEAN COSTI Chairperson (2025), Deputy Chairman for Research and Innovation Policy - National Research and Innovation Agency (BRIN), The Republic of Indonesia
Japan Co-Chair: Mr. OKADA Shinsuke, Director for International Cooperation of International Science and Technology Policy Division, Science and Technology Policy Bureau, Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan

Revised Draft as of 22 May 2025

4.6. ASEAN IVO: New Program Starts
<Presented by NICT, Japan / Dr. EMOTO Hiroshi, Director, International Research Development Office, Global Alliance Department, National Institute of Information and Communications Technology (NICT) >
(5 mins)

The Meeting may wish to be updated on the activities of ASEAN IVO. ASEAN IVO is launching 5 collaborative projects after AJCCST-13 in the areas of Food, Environment Protection and Disaster Prevention, and Health and Welfare.
Also new program, ASEAN IVO Phase II is starting this year, the first two years is a trail to feasibility study of technologies developed.

Q&A and discussion
(2 mins)

Agenda Item 5 Progress
14:09 – 14:30 (21 mins)
5.1. Japan

• Philippines
• Japan

PROVISIONAL ANNOTATED AGENDA

Registration	
Registration	
Agenda Item 1: Welcome	
1. Group Photo Session	(5 mins)
Opening remarks	(3 mins)
Opening remarks	(3 mins)

2025.6.19, Jakarta, Indonesia



2018.10.18, Cebu, The Philippines

Other Activities

Co-organized a Joint WS as a side event in conjunction with ASEAN COSTI-80 Meeting October 14, 2021, Online

CONCEPT NOTE

VIRTUAL SEMINAR "STI x LIVELIHOOD x WOMEN FOR THE SUSTAINABLE USE OF PEATLAND AND MANGROVE: FEMALE EMPOWERMENT TO PEATLAND AND MANGROVE RESEARCH THROUGH ASEAN-JAPAN COLLABORATION"
14 October 2021, 09:00 - 12:00 (Malaysia time, GMT+8)

(A side event in conjunction with ASEAN COSTI-80 Meeting)

Overview:

Present in more than 180 countries, peatlands, approximately 25 million hectares of peatlands are found in the Southeast Asia, are locally and globally vital ecosystems. Though they cover only 3 per cent of the world's land surface, they store nearly 30 per cent of its soil carbon. They provide vital ecosystem services such as controlling water supplies and preventing floods and droughts and provide many people with livelihoods such as food and fuel. They are also inhabited by rare plants and animals that can only survive in these unique, watery environments.

Despite their importance, peatlands around the world and the AMS are being drained and converted for agriculture, infrastructure development, mining and oil and gas exploration. Peatlands are also being degraded by fire, overgrazing, nitrogen pollution and extraction of peat as fuel and as a growing medium. Despite covering only 0.4 per cent of the global land surface, drained peatlands are responsible for more than 5 per cent of the carbon emissions, and much more when they are burning. Fires in the peatlands recognized as a major contributor to transboundary haze pollution in the ASEAN region also negatively impacts on the local society and environment as well as people's health due to the haze with PM2.5.

To address these problems, researchers from Brunei, Indonesia and Malaysia have conducted the project, "NAPC: Networked ASEAN Peat Swamp Forest Communities" since 2018. This project aims to develop IoT-based solution for peat swamp forest monitoring, targeting the environmental and agricultural issues, and it has been implemented as one of projects of ASEAN-IVO (ICT Virtual Organization of ASEAN Institutes and NICT("1)), global alliance of ICT R&D institutes and universities in the ASEAN region and Japan, which is supported by National Institute of Communication Technology (NICT, Japan).

NICT and JASTIP("2) have thereby started to collaborate since 2018 on the peatland issues as recognized that it is one of the most complex social challenges in the region, in which a wide range of scientific knowledge and technology, ICT, forest ecology, rural sociology, disaster science, needs to be mobilized, so that NICT and JASTIP can complement with each expertise to take a more integrated approach. NICT and JASTIP so far mutually participated in activities of each.

1

STI x LIVELIHOOD x WOMEN FOR THE SUSTAINABLE USE OF PEATLAND AND MANGROVE: FEMALE EMPOWERMENT IN RESEARCH AND PRACTICE THROUGH ASEAN-JAPAN COLLABORATION

<https://zoom.us/j/91927163357>
October 14, 2021, 8:00 - 11:00 (GMT+7)

Time	Topic	Presenter
8:30-9:00	Registration	
	Opening session	MC: Ms. Fitri A. Nurritasari UNESCO Jakarta Office
9:00-9:05	Welcome remarks	Prof. Dr. Mohd Adzir Mahdi Director of Research Management Center, Universiti Putra Malaysia
9:05-9:25	Keynote lecture 1: ASEAN IVO: To Solve Common Social Challenges	Dr. Hiroshi Emoto Director, International Research Development Office, NICT, Japan
9:20-9:35	Keynote lecture 2: Women in Tropical Peatland Research	Dr. Lulie Melling Director, Sarawak Tropical Peat Research Institute, Malaysia
	Group photo	
Part I	Peatland x ICT x Women	
9:35- 9:50	Peatland Management at Raja Musa Forest Reserves in Malaysia	Ms. Debora Belawan Selangor Forestry Department, Malaysia
9:50-10:05	When Peatland Meets Data and LoRaWAN	Prof. Ir. Dr. Aduwati Sali Universiti Putra Malaysia, Malaysia
10:05-10:20	How Indonesia Tackles Peatland Forest Fire	Dr. Lailan Syaufina IPB University, Indonesia
10:20-10:35	Peatland Forest Fire Mitigation Management in Brunei	Dr. Wida Susanty Haji Suhaili Universiti Teknologi Brunei, Brunei
10:35-10:40	Break	
Part II	STI x Knowledge x Women	
10:40-10:55	Sustainable Traditional-Knowledge on Peatland Hydrological Management Reduce Soil CO ₂ Emission, Fire Risk and Biomass Loss	Prof. Dr. Dwi Astiani Universitas Tanjungpura, Indonesia
10:50-11:05	"Women, Peatland and Wellness": Knowledge on nutrient and bioactive compounds empowering the community wellness	Prof. Dr. Christofora Hanny Wijaya IPB University, Indonesia
11:05-11:20	The potential of sago palm for plantation on rewetted drainage-impacted peatland	Dr. Yukako Monda Kyoto University, Japan
11:20-11:55	Panel Discussion How could we empower further the role of females in research and practice for the sustainable use of peatlands and mangroves • From the gender perspectives, adequate balance between conservation and development • How to engage more next-gen female researchers and practitioners • Possible actions at local, national and regional scales	Panelists: Prof. Ir. Dr. Aduwati Sali Dr. Lailan Syaufina Prof. Dr. Dwi Astiani Prof. Dr. C. Hanny Wijaya Dr. Wida Susanty Haji Suhaili Moderator: Ms. Fitri A. Nurritasari UNESCO Jakarta Office
11:55-12:00	Closing session Closing remarks	Prof. Dr. Elji Nawata Director of Kyoto University ASEAN Center, Japan/Thailand

STI x LIVELIHOOD x WOMEN
For the Sustainable Use of Peatland and Mangrove:
Female Empowerment in Research and Practice



14 October 2021
8:00-11:00 (GMT+7)



at Virtually Zoom Webinar
<https://zoom.us/j/91927163357>

Keynote speakers



Dr. Lulie Melling
Sarawak Tropical Peat
Research Institute,
Malaysia



Dr. Hiroshi Emoto
National Institute of Information
and Communications Technology
(NICT), Japan

Special talks



Ms. Debora Belawan
Selangor Forestry Department,
Malaysia



Prof. Ir. Dr. Aduwati Sali
Universiti Putra Malaysia



Dr. Lailan Syaufina
IPB University, Indonesia



**Dr. Wida Susanty
Haji Suhaili**
Universiti Teknologi
Brunei (UTB),
Brunei Darussalam



Prof. Dr. Dwi Astiani
Universitas Tanjungpura,
Indonesia



Prof. Dr. C. Hanny Wijaya
IPB University, Indonesia



Dr. Yukako Monda
Kyoto University,
Japan

**Registration and
Program available at**



<https://forms.gle/6AQ7w6kaVSaiHASj8>



Moderated by

Ms. Fitri A. Nurritasari
UNESCO Jakarta Office



Dialogue with SCMIT, ASEAN COSTI 08 October 2023, Singapore

SCMIT-52, 07 October 2024
Final of 27 July 2024



THE 52nd MEETING OF THE ASEAN SUB-COMMITTEE ON MICROELECTRONICS AND INFORMATION TECHNOLOGY (SCMIT-52) 08 October 2023, 08:00 – 17:00 (GMT+8, Singapore time) Sheraton Towers Singapore

Time/Duration GMT+8	AGENDA ITEM/TOPIC	LEAD
0830 - 0900 30 mins	Registration	
0900 - 0907 7 mins	AGENDA ITEM 1: OPENING REMARKS Opening remarks by Dr. Lim Tiong Hoo, SCMIT Chairman.	ASEC
0907 - 0915 8 mins	AGENDA ITEM 2: ELECTION OF THE VICE-CHAIRPERSON The Meeting may wish to elect the vice-chairperson.	SCMIT Chair
0915 - 0920 5 mins	BUSINESS ARRANGEMENT AND PHOTO SESSION	SCMIT Chair
0920 - 0930 10 mins	AGENDA ITEM 3: HIGHLIGHTS OF RELEVANT HIGH-LEVEL MEETINGS OUTCOMES The Meeting may wish to be briefed on the significant outcomes of the high-level meetings.	ASEC

SCMIT-52, 07 October 2024
Final of 27 July 2024

Time/Duration GMT+8	AGENDA ITEM/TOPIC	LEAD
16.00-16.30 30 mins	8.1 DISCUSSION ON THE PLANS OF SCMIT FOR 2024 AND BEYOND The Meeting may wish to discuss plans for SCMIT including: 1) National initiatives which can be elevated to the ASEAN Level, 2) Developing ASEAN's Capabilities in industry 4.0, IOT and SMART Technology 3) 5G and Beyond 4) Artificial intelligence and advanced commuting 5) Manufacturing on semiconductors	
16.30-16.35 5 mins	8.2. REVIEW OF SCMIT WORK PLAN 2016-2025 The Meeting may wish to review the SCMIT WORK PLAN 2016-2025.	
16.35-16.40 5 mins	AGENDA ITEM 9: OTHER MATTERS The Meeting may wish to be briefed on other matters.	SCMIT Chair
	9.1. ASEAN ICT Virtual Organization (IVO) Call for Collaboration	ASEAN IVO (Emoto Hiroshi)
	AGENDA ITEM 10: DATE AND VENUE OF SCMIT-53 The Meeting may wish to be briefed on the date and venue of the next meeting.	Thailand/ASEC
	AGENDA ITEM 11: CONSIDERATION AND ADOPTION OF THE REPORT OF THE SCMIT-52	SCMIT Chair

Thank you very much.

有難うございました。

ASEAN IVO HP:

https://www.nict.go.jp/en/asean_ivo/index.html