



SUMMARY REPORT

ASEAN Hydroinformatics Data Centre (AHC)

December 2020

INTRODUCTION

ASEAN Hydroinformatics Data Centre (AHC), proposed by Hydro - Informatics Institute (HII), Thailand, is the centre under ASEAN Committee on Science, Technology, and Innovation (ASEAN COSTI) and report to Sub-Committee on Microelectronics and Information Technology (SCMIT).

The AHC project is a platform to support data connectivity from ASEAN's water, weather, and disaster related agencies. ASEAN member states can also share their knowledge and technology that could support AHC in data sharing toward its future operation and implementation. AHC is aimed to be an integrated platform for regional knowledge sharing, technology matching, and capacity building on the implementation of Science and Technology to tackle climate change and water/weather-related disaster risk reduction.

Summary of AHC Activity

1. The Second Meeting of ASEAN Hydroinformatics Data Centre (AHC)

1.1. The Second AHC Meeting was organized on 15 December 2019 at Hydro – Informatics Institute building, Bangkok, Thailand. The Meeting was chaired by Dr. Sutat Weesakul, Chairman of AHC. The full report of the Second AHC Meeting appears as **ANNEX 1**.

1.2. The Meeting was attended by delegates from the Kingdom of Cambodia, the Republic of Indonesia, the Lao People's Democratic Republic, Malaysia, the Republic of the Union of Myanmar, the Republic of the Philippines, the Republic of Singapore, the Kingdom of Thailand and the Socialist Republic of Viet Nam. Representatives from HAI were also in attendance.

1.3. Status of AHC

1.3.1. The Meeting noted there were no new projects/activities/initiatives proposed. There were one progress and three potential financial support for the AHC as follows:

1.3.1.1. Progress - The Meeting was informed of the potential collaboration on the utilization of the Himawari Real-time Web developed by the National Institute of Information and Communications Technology (NICT), Japan for ASEAN countries. The Meeting noted that each member country may

need to explore for its own fastest route to link to for access to Himawari information.

1.3.1.2. Potential Financial Support – The Meeting was informed of the potential financial support for AHC from 1) “Climate-resilient Agriculture for Disaster Risk Reduction” under Asi@Connect projects from Trans-Eurasia Information Network*Corporation Center (TEIN*CC), 2) ASEAN CIO Association (ACIOA), and 3) Friends in Need (of "PA") Volunteers Foundation, Thai Red Cross.

1.3.1.3. Each member country updated on its progress for the year regarding Hydroinformatics in their countries.

1.4. AHC Thematic Area and AHC Roadmap 2020 – 2030

- The Meeting discussed and updated Contributions and Needs from each of the countries and agreed to set 5 Thematic Areas namely: 1) HIC Development 2) Big Data and Data Analytics 3) Observation Technology 4) Modeling and 5) Sustainable Water Management as shown in **ANNEX 2**. The Meeting discussed and agreed to proceed with the AHC Roadmap as shown in **ANNEX 3** and will start AHC activity with Thematic Areas 1 and 3.

1.5. Revised AHC TOR

- Arising from ASEAN COSTI’s request to all ASEAN Centres to review their Terms of Reference (TOR) using the endorsed ASEAN Secretariat Template, the Meeting has reviewed and revised AHC TOR as shown in **ANNEX 4**.

2. **AHC-related Activities**

2.1. International Conference on Policies, Laws and Regulations for Water Resources Management in Southeast Asia Countries

- During 12 – 13 December 2019, the international conference was co-organized by Hydro – Informatics Institute (HII), Thailand, and all AHC representative had attended the conference in Thailand. The conference aimed to raise awareness and build a better understanding of water-related policies, laws, and regulations in the Southeast Asia.
- The conference discussed 4 main topics, which are 1) Policies, laws and regulations for sustainable water resources management, 2) Good governance on water resources management with PPP Participation, 3) Water-related Disaster Risk Reduction, and 4) Way Forward: Direction on Rules of Law for Community Water Resources Management towards Sustainable Development.

2.2. Knowledges Sharing by Field Trip to Good Practices Site: “STI for SDGs”

- On 14 December 2019, AHC members participated in the field trip to Rangsit community in Pathum Thani province, Thailand, where the Community Water

Resources Management project run by HII was implemented. Rangsit community is the good practices for implementing local water resources management with STI support aiming to achieve the sustainability and tackle climate challenges. STI plays important role to all the development process including data collection, analysis, planning, development, and management. This activity is organized as a part of the AHC frameworks, “Knowledge Sharing”, aiming to exchange and transfer either STI or indigenous knowledge for water resources management to the members.

2.3. Knowledge Sharing: Live Chat on Hydroinformatics’ Future in ASEAN

- AHC members jointly collaborated with ASEAN Chief Information Officer Association (ACIOA) to organize the “Live Chat on Hydroinformatics’ Future in ASEAN; collaboration in building an ecosystem for good practices toward sustainable development” on 26 June 2020. The live activity exchange update information from each participated country and agree on the common interest and concern regarding hydroinformatics development in ASEAN e.g. cyber security, utilization, and optimization of data.
- The activity will be followed with a forum on hydroinformatics which will be organized after the COVID-19 pandemic has shown some better view.

Future Plan

Climate-Resilient Agriculture for Disaster Risk Reduction” (CRADR)

- HII received support under Asi@Connect Call for Proposal from Trans-Eurasia Information Network* Corporation Center (TEIN*CC) for the implementation of “Climate-Resilient Agriculture for Disaster Risk Reduction” (CRADR) project for Thailand and ASEAN during December 2020 – May 2021.
- The CRADR project is a collaboration between HII and international experts in the field of IT for agriculture and disaster to study the climate change affect to agriculture at small-scale level and adopt modern technologies to solve the problem and ensure future food security. The small-scale case study will firstly be implemented in Thailand and, meanwhile, shared with ASEAN members through series of workshops. The project was originally planned to organize 3 physical workshops for knowledge and technology sharing from international experts to ASEAN members in Thailand, Japan, and Taiwan. However, concerning current COVID-19 pandemic, the project plan was later amended to online workshop for security reason.
