



**ICT Virtual Organization of ASEAN Institutes and
NICT
(ASEAN IVO)**

Appendix 4.2

**[ICT-Driven Water Quality Monitoring Systems: Enhancing Precision and
Sustainability under the Climate Change]
[Knowledge transfer meeting and workshop I]
Report/Minutes Form**

I. Organizer:

Name:	Dr. Ho Ngo Anh Dao
Position:	Dean of Faculty of Environment and Labor Safety
Institution:	Ton Duc Thang University

II. Program:

Date: 26 – 27 Nov 2025.

Venue: Ton Duc Thang University, 19 Nguyen Huu Tho, Tan Hung Ward, Ho Chi Minh City, Vietnam.

Program Agenda:

Date and Time	Activities	Presenter	Participant
26/11/2025 - Knowledge Transfer Workshop I			
08:30 – 08:35	Welcome Remarks	Dr. Dinh Hoang Bach	+ Prof. Yu Kok Hwa (Project leader) + 08 project members; + Dr. Dinh Hoang Bach (Director of INCRETI, TDTU); + Dr. Tran Thanh Phuong (Dean of FEEE – TDTU); + 02 invited speakers (Fuvitech Company, Vietnam) + 07 Lecturers & Researchers (ENLABSAFE & FEEE – TDTU)
08:35 – 08:45	Opening Remarks	Dr. Yu Kok Hwa	
08:45 – 09:00	TDTU Introduction	ENLABSAFE, FEEE	
09:00 – 09:30	NICT Introduction Topic 1: Overview of research activities in wireless systems laboratory at NICT	Dr. Matsumura Takeshi	
09:30 – 10:00	Topic 2: Sensor Data Gathering Using Mobile Terminals over D2D Communications	Dr. Li Huan-Bang	
10:00 – 10:15	Tea Break and Networking		
10:15– 10:45	USM Introduction Topic 3: Machine learning model and calibration for water sensors	Dr. Yu Kok Hwa	+ Prof. Yu Kok Hwa (Project leader) + 08 project members; + 02 invited speakers (Fuvitech Company, Vietnam) + 07 Lecturers & Researchers
10:45 – 11:15	CADT Introduction Topic 4: Developing an IoT-Based Water Quality Monitoring	Mr. Him Soklong	



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Date and Time	Activities	Presenter	Participant
	Prototype: A Case Study from CADT		(ENLABSAFE & FEEE – TDTU) + 20 students (ENLABSAFE & FEEE – TDTU)
11:15 – 11:45	Fuvitech company Introduction Topic 5: IoT system for water quality monitoring	Mr. Mai Minh Man Mr. Le Duc Phuong	
11:45 – 12:00	Q&A Discussion	All speakers and participants	
12:00 – 01:30	Lunch time	20 participants listed in section V below	
01:30 – 03:00	Report on progress update of ASEAN IVO Project 2025	All project members	
03:00 – 03:30	Tea Break	All project members	
03:30 – 05:00	Discuss update on progress of ASEAN IVO Project 2025	All project members	
27/11/2025 – D2D Workshop			
09:00 – 09:15	Welcome remarks and brief introduction of participants	Dr. Yen Kim San (USM, Project member) Dr. Matsumura Takeshi (NICT, Project member)	
09:15 – 10:30	Technical Discussion	Dr. Li Huan-Bang (NICT, Project member)	
10:30 – 10:45	Networking	Mr. Nguyen Thanh Quang (TDTU, Project member) Dr. Hor Mangseang (CADT, Project member) Mr. Him Soklong (CADT, Project member) Representative of FEEE – TDTU Lecturers and researchers of FEEE – TDTU	
10:45 – 11:30	Site Survey for D2D System Installation within the Canal at Ton Duc Thang University Campus	Dr. Yu Kok Hwa (USM, Project leader) Dr Yen Kim San (USM, Project member) Prof. Matsumura Takeshi (NICT, Project member)	
11:30 – 01:00	Lunch	Prof. Li Huan-Bang (NICT, Project member) Dr. Ho Ngo Anh Dao (TDU, Project member) Mr. Nguyen Thanh Quang (TDTU, Project member) Dr. Hor Mangseang (CADT, Project member) Mr. Him Soklong (CADT, Project member)	

III. Participants:

No.	Name	Organization
1	Assoc. Prof. Yu Kok Hwa	USM (Project leader)
2	Prof. Leo Choe Peng	USM (Project member)
3	Assoc. Prof. Yen Kin Sam	USM (Project member)



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No.	Name	Organization
4	Assoc. Prof. Teh Jiashen	USM (Project member)
5	Dr. Li Huan-Bang	NICT (Project member)
6	Dr. Matsumura Takeshi	NICT (Project member)
7	Mr. Him Soklong	CADT (Project member)
8	Dr. Ho Ngo Anh Dao	ENLABSAFE, TDTU (Project member)
9	Mr. Nguyen Thanh Quang	FEEE, TDTU (Project member)
10	Dr. Tran Thi Phuong Quynh	ENLABSAFE, TDTU (Project member)
11	Assoc. Prof. Dinh Hoang Bach	INCRETI, TDTU (Director)
12	Dr. Tran Thanh Phuong	FEEE, TDTU (Dean)
13	Mr. Mai Minh Man	Fuvitech Company (Invited Speaker)
14	Mr. Le Duc Phuong	Fuvitech Company (Invited Speaker)
15	Assoc. Prof. Pham Thanh Luu	ENLABSAFE, TDTU (Lecturer)
16	Dr. Vu Duc Canh	ENLABSAFE, TDTU (Lecturer)
17	Dr. Nguyen Tan Phong	ENLABSAFE, TDTU (Researcher)
18	Dr. Nguyen Thi Hien	ENLABSAFE, TDTU (Lecturer)
19	Ms. Nguyen Thi Thanh Huong	ENLABSAFE, TDTU (Lecturer)
20	Ms. Pham Thi Kim Nhung	ENLABSAFE, TDTU (Lecturer)
21	Dr. Do Vinh Quang	FEEE, TDTU (Lecturer)
22	Dr. Tran Duc Anh Minh	FEEE, TDTU (Lecturer)
23	Students	10 FEEE students 05 ENLABSAFE students

IV. Summary of the activities corresponding to the objectives.

1. Briefly describe the objectives of the event.

The main objective of the event was to facilitate knowledge transfer on IoT-driven water quality monitoring systems, including wireless communication technologies, D2D connectivity, and machine-learning-based sensor calibration. The workshop also aimed to strengthen collaboration among ASEAN IVO project members, and provide students and researchers with exposure to advanced ICT applications for environmental monitoring and climate change adaptation.

2. Describe the activities corresponding to the objectives.

To achieve these objectives, the program was designed for 2 days as mentioned in section II.



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On the first day, the knowledge transfer workshop included a series of presentations delivered by project members from NICT, USM, CADT, and TDTU, covering wireless systems, D2D communication, IoT prototype development, and machine learning techniques for water sensor calibration. The workshop also featured presentations from an invited industry partner (Fuvitech), discussions, Q&A sessions, and a project progress reporting meeting.

On the second day, a D2D technical workshop, laboratory tour, and an on-site survey for the planned canal-based D2D installation were conducted to support project implementation and future deployment.

- 3. Describe, in detail, if there are changes in the work plan, project schedule, budget allocation, etc. from the initial proposal.*

Progress update had been presented in the progress update meeting by Dr. Yu Kok Hwa, Dr. Ho Ngo Anh Dao, and Dr. Li Huan-Bang on the sensor calibration, IoT system deployment and D2D setup, respectively.

Work plan: No changes made on the work plan. The subsequent work plan involves trial test of the IoT system in the canal system at the TDTU campus. The water quality of the canal shall be recorded and analyzed.

Project Schedule: No changes on the project schedule. The next midterm progress meeting shall be held in Penang, Malaysia in the first half of 2026.

Budget allocation: Budget allocation is planned for conference, computer and laptop, purchase of historical environmental data. Proposed budget of USD 4000 shall be allocated for international conference. For additional computer and laptop, a proposed budget of USD 6000 shall be allocated. The computer and laptop shall be used for climate change and sustainability study. For historical environmental data for climate change and sustainability study, a proposed budget of USD 3000 is allocated.

V. Others.

The following is photos taken during 2 days program at TDTU campus

Day 1: 26/11/2025 (morning) - Knowledge Transfer Workshop I at Meeting Room A101, TDTU

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Welcome Remarks by Assoc. Prof. Dinh Hoang Bach – INCRETI, TDTU



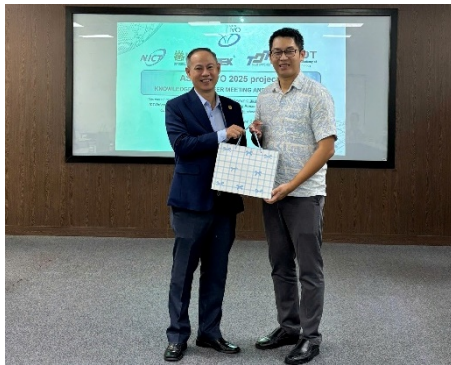
Opening Remarks by Assoc. Prof. Yu Kok Hwa – Project leader



TDTU introduction



ASEAN IVO Project members



Gift exchange



Group photo



Topic 1: Overview of research activities in wireless systems laboratory at NICT by Dr. Matsumura Takeshi



Topic 2: Sensor Data Gathering Using Mobile Terminals over D2D Communications by Dr. Li Huan-Bang



Topic 3: Machine learning model and calibration for water sensors by Assoc. Prof. Yu Kok Hwa



Topic 4: Developing an IoT-Based Water Quality Monitoring Prototype: A Case Study from CADT by Mr. Him Soklong

Topic 5: IoT system for water quality monitoring by Mr. Mai Minh Man (Fuvitech Company)

Day 1: 26/11/2025_afternoon - Report on progress update of ASEAN IVO Project 2025 at Meeting Room A101, TDTU, Vietnam



Assoc. Prof. Yu Kok Hwa presented the overall progress of the ASEAN IVO 2025 project



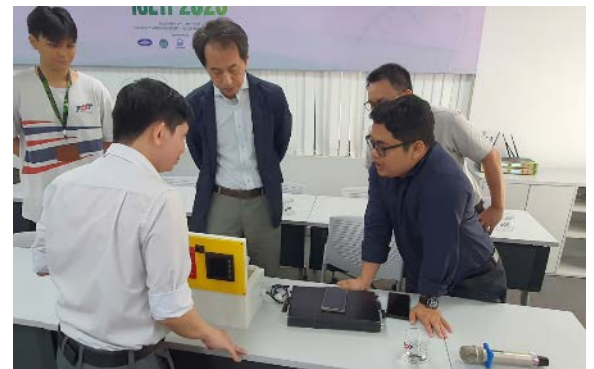
Dr. Ho Ngo Anh Dao presented the progress update from TDTU



Dr. Li Huan-Bang presented the progress update from NICT

Assoc. Prof. Teh Jiashen presented new ideas for the ASEAN IVO 2026 project

27/11/2025 – D2D Workshop at Meeting Room A101, TDTU, Vietnam



D2D workshop



Laboratory tour



Site Survey for D2D System Installation within the Canal at Ton Duc Thang University Campus

VI. Workshop Evaluation Questionnaire

WORKSHOP EVALUATION QUESTIONNAIRE

Workshop Name: Knowledge transfer meeting and workshop I

[ICT-Driven Water Quality Monitoring Systems: Enhancing Precision and Sustainability under the Climate Change]

Location: Meeting Room A101, Ton Duc Thang University, Ho Chi Minh City, Vietnam

Date: 26 November 2025

The QR code links to a 17-question survey used to evaluate the quality of the **Knowledge transfer meeting and workshop I**:



**ASEAN IVO 2025 project
KNOWLEDGE TRANSFER MEETING AND WORKSHOP I**



Evaluation Questionnaire

This workshop (event) is the output of ASEAN IVO (http://www.nict.go.jp/en/asean_ivo/index.html) project, **ICT-Driven Water Quality Monitoring Systems: Enhancing Precision and Sustainability under the Climate Change**, and financially supported by NICT (<http://www.nict.go.jp/en/index.html>)





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Knowledge Transfer Meeting and Workshop I

We sincerely appreciate your participation in the **Knowledge Transfer Meeting and Workshop I of the ASEAN IVO Project 2025**, entitled **"ICT-Driven Water Quality Monitoring Systems: Enhancing Precision and Sustainability under Climate Change."**

Your presence and engagement greatly contributed to the success of this event.

This evaluation form is designed to gather your reflections, assessments, and suggestions based on your experience throughout the workshop. Your feedback is immensely valuable and will be carefully considered to improve future knowledge exchange activities and strengthen collaboration within ASEAN IVO.

We kindly request your thoughtful input. All responses will be treated confidentially and used solely for the purpose of program enhancement, quality improvement, and planning of upcoming workshops.

Thank you for your time, contribution, and continued support.

** Indicates required question*

1. Name *

2. Institution/Organization *

Workshop Content Evaluation

Please rate the following aspects:

3. 1. Relevance of workshop topics *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

4. 2. Quality and depth of technical content *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

5. 3. Time allocation for each session *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor



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6. 4. Effectiveness of Q&A and discussion *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

7. 5. Knowledge gained from the workshop *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

Speaker & Session Evaluation

Please rate the following aspects:

8. 1. Expertise and preparedness of speakers *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

9. 2. Presentation delivery and communication *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

10. 3. Overall session effectiveness *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

Workshop Logistics

Please rate the following aspects:



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11. 1. Venue suitability & comfort *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

12. 2. Audio-visual and technical support *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

13. 3. Event coordination & communication *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

14. 4. Tea break & lunch arrangements *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

Overall Satisfaction

15. Please select the option that best reflects your overall experience, considering program content, speaker quality, organization, and knowledge gained *

Mark only one oval.

- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied

16. What did you find most valuable during this workshop?



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17. Which areas could be improved for future programs?

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Google Forms

A total of 21 participants completed the workshop evaluation, and overall feedback was highly positive. Most respondents rated the workshop topics, technical content, time allocation, speaker expertise, presentation quality, and organizational arrangements as Excellent. Participants particularly valued the insights into IoT, AI, 5G/6G technologies, and practical applications for water quality monitoring, as well as the opportunity to learn from both academic experts and local industry representatives. Suggestions for improvement focused on increasing student participation, inviting more speakers and companies, providing more detailed explanations of sensor technologies, and improving room temperature. Overall, the responses indicate that the workshop was well-organized, informative, and effective in delivering meaningful knowledge and engagement.

Please access the link below to view the detailed feedback:

https://docs.google.com/spreadsheets/d/1atJZ26NoSs_lvUW5Cs7psCBMWU_yPyGjd0_VC14_h_4/edit?usp=sharing