

Appendix 6.2

PEP-star: A Performance Enhancing Proxy for Low Earth Orbit Satellite Communications in Disaster-Resilient ASEAN Network Infrastructure

INTERIM MEETING AND WORKSHOP

Report/Minutes Form

I. Organizer:

Name:	Yung-Wey Chong
Position:	Associate Professor
Institution:	Universiti Sains Malaysia

II. Program:

Date: 28-29th July 2026

Venue: Level 7, School of Computer Sciences, Universiti Sains Malaysia, Penang, Malaysia

Program Agenda:

Day-1 (28th July 2026): Meeting

- 09:00-10:00 Introductory Session
- Welcome – USM (15 min)
- Project updates
- Project updates – USM (15 min)
 - Project updates – UNHAS (15 min)
 - Project updates – UB (15 min)
- 10:00-10:30. Coffee/Tea Break
- 10:30-11:30. Project updates
- Project updates – USK (15 min)
 - Project updates – NUOL (15 min)
 - Project updates – BPBA (15 min)
 - Project updates – UGS (15 min)
- 11:30-12:30. Methodology refining (Dr. Chong)
- 12:00-13:30. Lunch Break
- 13:30-15:00. Project Management (Dr. Chong)

- Workplan – main milestones for the next 12 months

15:00-15:30. Coffee/Tea Break

15:30-17:00. Site visit: USM's deployment site

17.00. End of meeting.

Day-2 (29th July 2026): Workshop: Disaster risk management and geospatial technologies.

09:00-09:15. Opening remarks (Professor Dato' Dr. Narimah Samat)

09:15-10:15. Satellite Technologies for Disaster Risk Management (Associate Professor Gs. Dr. Tan Mou Leong)

10:15-10:30 Coffee Break

10:30-12:00 Hands-on session: Applications of Remote Sensing in Disaster Risk Management (Associate Professor Gs. Dr. Tan Mou Leong)

12:00-13:30. Lunch Break

13:30-14:30. GIS for Community Resilience and Disaster Preparedness (Assistant Professor Gs. Dr. Mohd Amirul Mahamud)

14:30-14:45. Coffee/Tea Break

14:45-15:45. Hands-on session: GIS Applications for Community Resilience and Disaster Preparedness (Assistant Professor Gs. Dr. Mohd Amirul Mahamud)

15:45-17:00. Demonstration of Disaster Adaptation Initiatives and Systems

17.00. End of meeting.

III. Participants:

No.	Name	Organization
1	Khamsaone Chouramany	NUOL
2	Phonxay Vilakone	NUOL
3	Rahmad Dawood	USK
4	Yudha Nurdin	USK
5	Fazli SKM. M. Kes	BPBA
6	Raden Arief Setyawan	UB
7	Achmad Basuki	UB

8	Muhammad Niswar	UNHAS
9	Amil Ahmad Ilham	UNHAS
10	Sye Loong Keoh	UGS
11	Yung-Wey Chong	USM
12	Mohammad Ali Sarvghadi	USM
13	Nurulfaizal M. Shukeri	USM
14	Tian Jianping	USM
15	Gs. Dr. Tan Mou Leong	USM
16	Gs. Dr. Mohd Amirul Mahamud	USM
17	Prof. Dr. Narimah Samat	USM
18	Seyedsajad Sajadi	USM
19	Muhammad Khairi A.Wahab	USM
20	Syamsul Azlan Saleh	USM
21	Yue Qimin	USM
22	Zeng Yi	USM
23	Chen Wenjie	USM
24	Shan ZhiBin	USM
25	Liu Junjie	USM
26	Liu Ying	USM
27	Zhou Aojie	USM
28	Zhang Ruijun	USM
29	Tu Xiaoqiang	USM
30	He Xingru	USM
31	Adnan Ausm Tham	USM

IV. Summary of the activities corresponding to the objectives.

Objectives of the Event

The event was convened to achieve three interrelated objectives:

1. To hold an interim project meeting among all partner institutions to consolidate progress updates, refine the research methodology, and align the workplan for the next 12 months.
2. To demonstrate the PEP-star testbed deployed at USM, enabling project partners to observe the current system architecture and provide collaborative input on its optimization.
3. To conduct a dedicated workshop on disaster risk management and geospatial technologies, ensuring that the proxy system's design parameters, prioritization logic, and deployment strategies remain responsive to real-world emergency conditions in ASEAN disaster-affected regions.

Activities Corresponding to the Objectives

All partner institutions convened for the interim project meeting, during which each partner presented consolidated progress updates on their respective work packages. The meeting served as a platform to review methodological approaches undertaken to date, identify areas requiring refinement, and collectively align the workplan for the subsequent 12-month period. Discussions focused on ensuring consistency across partner institutions in research methodology and

reporting.

A site visit to the PEP-star testbed deployment site at USM was organized for all partners. During the visit, partners were given direct access to the deployed system, including the opportunity to view the existing algorithm implementation. This allowed partners to gain a first-hand understanding of the current system architecture and to provide immediate, informed feedback on potential areas for optimization.

A hands-on workshop on disaster risk management and geospatial technologies was conducted. The workshop enabled participants to gain practical understanding of how geospatial data and GIS tools are applied in disaster preparedness and community resilience planning. Extensive discussion took place throughout the workshop, allowing participants and facilitators to exchange perspectives on ground-level disaster response practices.

Changes to the Work Plan, Project Schedule, or Budget Allocation

No changes occurred with respect to the event agenda or overall project scope. All planned sessions proceeded as originally structured.

Two developments arising from the meeting are noted for record purposes:

First, partners finalised the specifications for the weather monitoring sensors, with each partner institution to proceed independently with procurement of the units for their respective sites; the meeting served to confirm technical specifications and coordinate procurement timing across partners.

Second, the workshop scheduled to be held in Laos will now take place on an earlier date due (February 2027), differing from the date originally set out in the project schedule. This adjustment was agreed upon collectively by the partner institutions during the meeting. Partners do not anticipate that this rescheduling will affect the overall project timeline or budget allocation, though it is recorded here for transparency.

V. Others.





VI. Workshop Evaluation Questionnaire

WORKSHOP EVALUATION QUESTIONNAIRE

Workshop Name: Disaster risk management and geospatial technologies

Location: Universiti Sains Malaysia

Date: 29th July 2026

Job Title	What aspects of this workshop were most useful or valuable?	How would you improve this workshop?
Expert Disaster Management Analyst	The workshop provided valuable knowledge on LEO satellite communication for disaster resilience, practical insights into emergency communication systems, and opportunities to network and share experiences with experts and participants.	The workshop was very informative and well organized. To make it even better, I suggest including more hands-on demonstrations, interactive group activities, and real-world case studies on the use of LEO satellite communication in disaster response. Providing more time for discussion and networking would also enhance participants' learning and collaboration.
Lecturer	Workshop with the Humanities Departement.	The current format is already good.
Associate Professor	Findings, Hands-on, and Technical Discussion	Future Collaboration on Capacity Building Program or Microcredentials
Professor	Handson session	Handson material should be distributed to the participants beforehand
Professor	Progress report, workshop and hands on	More on demo and hands on
Lecturer	The hands-on was the most useful part where participants could perform the tasks themselves and practically see the results.	I think the workshop can be equipped with a intermediate assignment for participants.
Lecturer	The aspects of this workshop that useful and valuable are hands-on assignments, real-world case studies, and especially the opportunities for peer collaboration. These practical elements build foundational knowledge and critical thinking and further improve collaboration between different universities from different countries in ASEAN.	The workshop was very good, however I suggest in the future we also include some kind of problem-solving example that need to be solved together while the participant are learning a new skill in the workshop.
Lecturer	Workshop on the use of satellite data for the Dissaster Analysis	More handson work

Head of division	first, analyzing past disaster case studies to understand key failure points; second, learning practical risk-assessment frameworks; and third, networking with other professionals to share best practices for cross-team coordination.	Extend the practical exercises and debriefs. Provide editable digital SOPs and checklists. Group participants by region or sector for focused discussion.
Associate Professor	Sharing of various approaches to analyse natural disasters or Hazards	more targeted use case of analysis