



ASEAN FEDERATION OF LAND SURVEYING AND ASSOCIATION
OF AUTHORISED LAND SURVEYORS MALAYSIA



PRESENT

18TH SEASO

The 18th South East Asia Survey Congress

PROGRAMME BOOK



SHANGRI-LA
KUALA LUMPUR



18 & 19
AUGUST 2026



“

**SMART GEOSPATIAL SOLUTIONS FOR
A SUSTAINABLE AND RESILIENT
SOUTHEAST ASIA DEVELOPMENTS**

”



Meet in *Malaysia*
Be Greater, Together.



Welcome To
**SHANGRI-LA
LUMPUR**

**18 & 19 AUG
2026**

Kuala Lumpur, Malaysia





**ASEAN FEDERATION OF LAND SURVEYING AND ASSOCIATION
OF AUTHORISED LAND SURVEYORS MALAYSIA**



PREFACE

On behalf of the SEASC 2026 Organising Committee, it is our pleasure to welcome all distinguished guests, keynote speakers, presenters, moderators, sponsors, exhibitors and delegates to the 18th South East Asia Survey Congress (SEASC 2026), held on 18 and 19 August 2026 at Shangri-La Kuala Lumpur, Malaysia.

Convened under the theme “Smart Geospatial Solutions for a Sustainable and Resilient Southeast Asia Developments,” the Congress provides an important platform for professionals, researchers, policymakers and industry leaders to exchange knowledge, strengthen regional cooperation and explore the future of surveying, geomatics and geospatial science.

The two-day programme features keynote speeches, plenary presentations, technical sessions and panel discussions addressing climate action, disaster-risk management, surveying innovation, GeoAI, marine geospatial technologies, smart cadastre systems, sustainable cities, professional development and the United Nations Sustainable Development Goals.

Beyond the technical programme, SEASC 2026 offers valuable opportunities for networking, fellowship and the development of lasting professional partnerships across Southeast Asia and beyond.

We extend our sincere appreciation to our Guest of Honour, speakers, moderators, sponsors, exhibitors, partners, committees, volunteers and all those whose dedication has made this Congress possible. Most importantly, we thank every delegate for joining us and contributing to the advancement of the regional geospatial community.

May SEASC 2026 inspire new ideas, meaningful collaboration and positive action towards a more sustainable and resilient future.

Welcome to SEASC 2026.

Learn. Explore. Connect.

SEASC 2026 Organising Committee





ASEAN Federation of Land Surveying and Geomatics

MESSAGE

On behalf of the ASEAN Federation of Land Surveying and Geomatics (AFLAG), it is my greatest honour and privilege to welcome all delegates, speakers, sponsors, exhibitors and distinguished guests to the 18th South East Asia Survey Congress, SEASC 2026, here in the beautiful city of Kuala Lumpur, Malaysia.

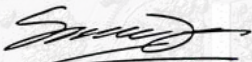
This year holds special significance as SEASC 2026 also marks the 30th Anniversary of AFLAG. Since our establishment in 1995, AFLAG has grown from a shared vision among dedicated surveyors into a leading regional body representing geodetic engineers, surveyors and geomatics practitioners across ASEAN. As we celebrate three decades of unity, cooperation and professional excellence, I extend my heartfelt appreciation to everyone who has contributed to this remarkable journey.

The congress theme, "Smart Geospatial Solutions for a Sustainable and Resilient Southeast Asia Development," reflects the important role of our profession in addressing climate change, rapid urbanisation, land administration and infrastructure planning. Geospatial science and surveying have never been more essential. I hope the knowledge shared, connections formed and ideas exchanged at this Congress will inspire meaningful progress in our countries and communities.

To our keynote speakers, plenary speakers and technical presenters, thank you for sharing your valuable knowledge and experience. To our sponsors and exhibitors, we are deeply grateful for your support and partnership. I also extend my sincere appreciation to the SEASC 2026 Organising Committee and Working Committee for their dedication and hard work in bringing this Congress to life.

Finally, to all our delegates, welcome to Kuala Lumpur. May SEASC 2026 be an enriching, productive and memorable experience for everyone.

Together we advance. Together we grow.

A stylized signature in black ink.

LSr Shaharuddin Musa

President, ASEAN Federation of Land
Surveying and Geomatics (AFLAG)





Association of Authorised Land Surveyors Malaysia

MESSAGE

Assalamualaikum Warahmatullahi Wabarakatuh and a very warm welcome to all delegates, speakers, sponsors, exhibitors, and honored guests of the 18th South East Asia Survey Congress, SEASC 2026.

On behalf of the Association of Authorised Land Surveyors Malaysia (PEJUTA), it is a tremendous honor to serve as the host organizer here in Kuala Lumpur. For PEJUTA, this is a proud moment for every licensed land surveyor in Malaysia to welcome the finest minds in our profession from across Southeast Asia and the world.

Malaysia has always been at the heart of the geomatics profession in the ASEAN region. It was in Kuala Lumpur that the resolution to establish AFLAG was first passed in 1995. Today, thirty years on, we are proud to bring the SEASC family back to Malaysia for what promises to be an unforgettable congress.

The theme of SEASC 2026, "Smart Geospatial Solutions for a Sustainable and Resilient Southeast Asia Development," resonates deeply with PEJUTA's mission to advance land surveying through technology, innovation, and professional excellence. We believe the discussions and networking over these two days will produce collaborations that benefit our profession for years to come.

To our international delegates, we hope Kuala Lumpur leaves a lasting impression on your hearts. We have prepared a rich program, including a Technical Tour of our iconic landmarks, and we trust that your time in Malaysia will be both productive and memorable.

Finally, my sincere thanks to the SEASC 2026 Organising Committee and Working Committee for your extraordinary dedication. This congress is a testament to your passion for the profession and your unwavering spirit. Welcome to Malaysia!


LSr MD RODI ISMAIL

President, Association of Authorised
Land Surveyors Malaysia



GUEST OF HONOUR



MINISTRY OF NATURAL RESOURCES
AND ENVIRONMENTAL SUSTAINABILITY

YB Tuan Syed Ibrahim Syed Noh

Deputy Minister of Natural Resources
and Environmental Sustainability





ABOUT THE ASEAN FEDERATION OF LAND SURVEYING AND GEOMATICS (AFLAG)

A Legacy Born from Vision

The ASEAN Federation of Land Surveying and Geomatics, widely known as AFLAG, traces its roots to the South East Asia Survey Congress (SEASC), which was first organised by the Institution of Surveyors, Australia in Singapore in the late 1970s. As the congress grew and moved across the region, the idea of establishing a dedicated regional body for land surveyors and geomatics professionals in Southeast Asia began to take shape. It was at the fourth SEASC held in Malaysia that this vision was formally proposed, setting in motion a series of events that would change the course of the profession in the region.

On 15 March 1995, a historic preliminary meeting was convened in Kuala Lumpur, bringing together aspirants from member countries across Southeast Asia. The meeting unanimously passed a resolution to establish the ASEAN Federation of Land Surveying and Geomatics. The founding was made possible through the dedication and close cooperation of prominent surveyors from across the region, including the late Mr Wee Soon Kiang of Singapore, Mr Pa Leo Nardy of Indonesia, Mr Frederico Mendela of the Philippines, Dr Wicha Jiwalai of Thailand and Pengiran Matusin of Brunei.

AFLAG was officially registered with the Registrar of Societies, Malaysia in October 1996 and proudly launched on 5 May 1997 by the Minister of Land of Cooperative Malaysia at the Park Royal Beach Resort, Batu Ferringgi, Penang. The founding principal officers were President Dato Abdul Majid Mohamed, Secretary General Sr Dr Khoo Boo Khean and Treasurer General Dr Lukman Aziz.

In 1999, AFLAG held its first Biennial General Meeting in conjunction with the 6th SEASC in Fremantle, Western Australia, marking the beginning of a proud tradition of regional gathering and cooperation that continues to this day.



Accreditation and Recognition

AFLAG is the professional association duly accredited by the ASEAN Secretariat in Jakarta, Indonesia, representing Geodetic Engineers, Surveyors and Geomatics Practitioners across the ASEAN region. The federation has also established affiliations with the United Nations Regional Cartographic Conference and the International Federation of Surveyors (FIG), cementing its standing as a respected voice in the global surveying and geomatics community.

In October 2024, AFLAG was officially appointed as the Secretariat of the ASEAN Competent Authority Committee on Surveying (ACACS), further strengthening its role as the leading authority for the surveying profession in Southeast Asia.

Vision

To be the leading regional federation for land surveying and geomatics professionals in Southeast Asia, recognised globally for excellence, innovation and regional cooperation.

Mission

To promote and advance the science, practice and application of land surveying and geomatics for the advancement of mankind and community, and to foster regional cooperation and transfer of technology across the ASEAN region.

Objectives

AFLAG was established with the following objectives:

- To realise close cooperation among members of the same profession and associated services in the ASEAN member nations in order to help promote the aspirations, objectives and principles of ASEAN
- To help maintain peace and promote prosperity in the ASEAN region through mutual cooperation and the advancement of the profession of land surveying and geomatics
- To promote and advance the science, practice and application of land surveying and geomatics for the advancement of mankind and community
- To encourage communication between persons charged with technical responsibility for the planning, design and execution of land surveying and geomatics
- To educate and seek to improve, extend and elevate the technical and general knowledge of members and persons concerned with land surveying and geomatics
- To serve as a focal point for exchange of ideas related to land surveying and geomatics in the ASEAN region
- To conduct, encourage and collate research in land surveying and geomatics
- To disseminate information on land surveying and geomatics across the region
- To cooperate with national and international organisations and to support and supplement their work

Motto

One Vision. One Identity. One Community.

AFLAG COUNCIL 2024 – 2026



Shaharuddin Musa

President
Malaysia
Association of Authorised Land
Surveyors Malaysia (PEJUTA)



Leong Kim Weng

Senior Vice President
Singapore
Singapore Institute of Surveyors
and Valuers (SISV)



Mario Jose O. Silvino

Vice President
Philippines
Geodetic Engineering of the
Philippines, Inc



Mohd Latif Zainal

Honorary Secretary General
Malaysia
Association of Authorised Land
Surveyors Malaysia (PEJUTA)



Said Abdullah Abri

Honorary Treasurer
Indonesia
Ikatan Surveyor Indonesia (ISI)



Derek Chan Wei Hoong

Council Member
Singapore
Singapore Institute of Surveyors
and Valuers (SISV)



Ady S. Ruchiatan

Council Member
Indonesia
Asosiasi Perusahaan Survey dan
Pemetaan Informasi Geospasial
(APSPIG)



**Norliza Haji Mohammed
Daud**

Council Member
Brunei Darussalam
Survey Department, Ministry of
Development, Negara Brunei
Darussalam



Ezam Bin Ariffin

Council Member
Malaysia
Association of Authorised Land
Surveyors Malaysia (PEJUTA)



Azhar Bin Husain

Council Member
Malaysia
Association of Authorised Land
Surveyors Malaysia (PEJUTA)



Mohd Don Omar

Council Member
Brunei Darussalam
Brunei Institution Of Geomatics
(BIG)



**Dato' Bernard Liew
Chai Min**

Council Member
Malaysia
Sabah Surveyors Board



Mr Hoang Kim Quang

Council Member
Vietnam
The Vietnam Association of
Geodesy, Cartography and
Remote Sensing (VGCR)

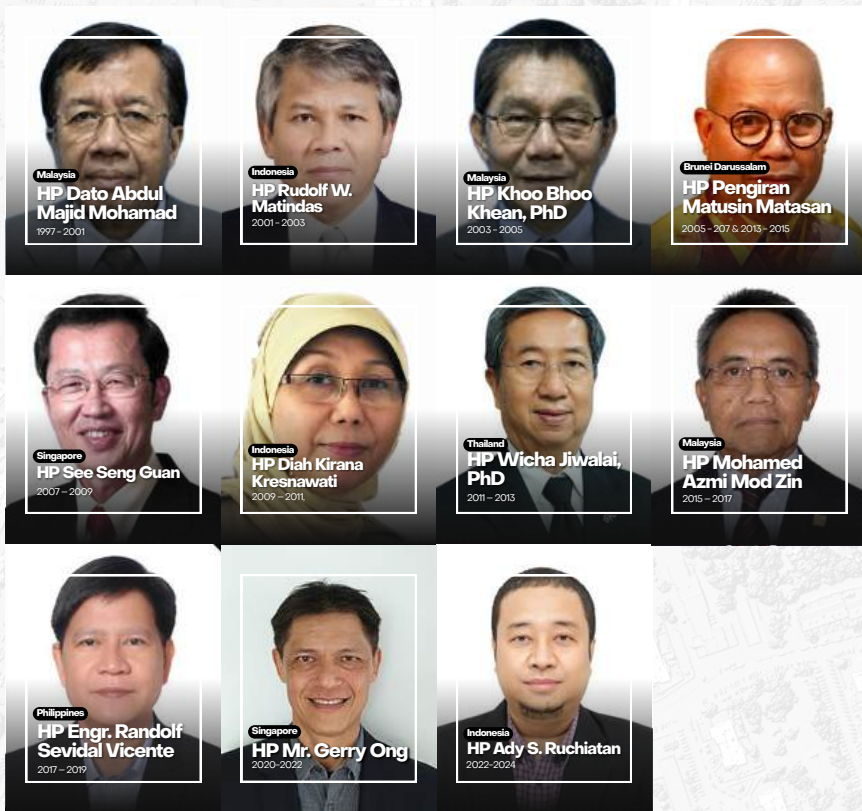


Victorino O. Domingo

Council Member
Philippines
Geodetic Engineering of the
Philippines, Inc

Honorary Presidents of AFLAG

The following distinguished leaders
have served as Honorary Presidents of
AFLAG since its establishment.





Current President

LSr Shaharuddin bin Musa
President, ASEAN Federation of Land
Surveying and Geomatics (AFLAG)
2024 — Present
Malaysia

AFLAG Secretariat



ASEAN Federation of Land Surveying and Geomatics (AFLAG)

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A Note on the 30th Anniversary

This year, 2026, marks a momentous milestone for AFLAG — our 30th Anniversary. From a bold resolution passed in a meeting room in Kuala Lumpur in 1995, AFLAG has grown into the premier regional body for the land surveying and geomatics profession in Southeast Asia, representing thousands of professionals across ten ASEAN member nations. Tonight, as we gather for the SEASC 2026 Fellowship Dinner in conjunction with the AFLAG 30th Anniversary Celebration, we pause to honour the journey, celebrate the achievements and look forward with pride and confidence to the next thirty years

*Here is to thirty years and beyond.
One Vision. One Identity. One Community.*



ABOUT THE ASSOCIATION OF AUTHORISED LAND SURVEYORS MALAYSIA (PEJUTA)

Persatuan Juruukur Tanah Bertauliah Malaysia

Our Story

The Association of Authorised Land Surveyors Malaysia, known as PEJUTA or Persatuan Juruukur Tanah Bertauliah Malaysia, was founded in 1979 and registered with the Registry of Societies Malaysia. Established at a time when the land surveying profession in Malaysia needed a strong, unified and dedicated voice, PEJUTA was born from the collective determination of licensed land surveyors who believed in the power of unity, professional excellence and shared purpose.

Over the decades, PEJUTA has grown from a small association of passionate surveyors into a respected and influential professional body, representing licensed land surveyors across Peninsular Malaysia. Through its programmes, advocacy and partnerships, PEJUTA has consistently championed the interests of the profession and its members at both the national and international levels.

Today PEJUTA is proud to serve as the co-organiser of the 18th South East Asia Survey Congress, SEASC 2026, alongside the ASEAN Federation of Land Surveying and Geomatics, AFLAG. It is a moment that reflects the growth, maturity and standing of the Malaysian land surveying profession on the regional and global stage.



The Logo and Its Meaning

The PEJUTA logo was designed by Hj Ahmad Daud and carries deep symbolism rooted in the values and practice of the land surveying profession.

The logo features a solid green square, a yellow circle and geometric elements including points, lines, circles and triangles — all of which are fundamental elements in the practice of land surveying.

Green represents the habitable Earth and the work of land surveyors in measuring, mapping and defining land parcels, reflecting a commitment to sustainable development and responsible stewardship of the land.

Yellow represents the tiny candle of hope kindled by the founders of PEJUTA in 1979, bringing hope, light and posterity to the profession of land surveying in Malaysia.

Black represents professionalism, integrity and the highest standards of practice. The yellow circle carries the message: United we prosper, divided we extinct — a powerful reminder of the importance of solidarity and cooperation within the profession.

Vision

To build a cohesive community of professionals with clarity of purpose, direction and accountability, unified in its agreement on strategic priorities and armed with an unfailing discipline to follow through.

Mission

To provide the highest quality professional services, foster continuing trust and collaboration among members, strengthen partnerships with industry stakeholders, and seek to continuously improve communication between PEJUTA, its members and the wider public.

OBJECTIVES

PEJUTA was established with the following objectives:

- To promote the interests and welfare of licensed land surveyors in Peninsular Malaysia
- To uphold and advance the standards and ethics of the land surveying profession
- To foster close cooperation and communication among members
- To provide continuing professional development opportunities for members
- To represent the profession in dealings with government bodies, regulatory authorities and other professional organisations
- To strengthen partnerships with regional and international surveying organisations
- To support the development of young professionals and the next generation of land surveyors

MEMBERSHIP

PEJUTA brings together the land surveying community through five categories of membership:

Ordinary Members — Licensed land surveyors who hold valid practising licences issued by Lembaga Jurukur Tanah Malaysia. Ordinary Members are the core of PEJUTA and are entitled to full membership rights including voting and holding office.

Graduate Members — Individuals who hold a qualification in Land Surveying recognised by Lembaga Jurukur Tanah Malaysia. Graduate Members may participate in PEJUTA activities and discussions but are not entitled to hold office or vote.

Associate Members — Ordinary Members who have retired from active practice as licensed land surveyors are reclassified into this category. Associate Members continue to be valued members of the PEJUTA community.

Corporate Members — Any firm or company engaged in the manufacture, sale, rental or lease of equipment, instrumentation, hardware and software used by land surveyors. Corporate Members may nominate one representative to participate in PEJUTA activities but are not entitled to hold office or vote.

Honorary Members — Individuals recognised for their outstanding contributions to the land surveying profession or to PEJUTA. Honorary membership is conferred at the discretion of the association.

AFFILIATIONS

PEJUTA is proud to be affiliated with the following organisations:

- ASEAN Federation of Land Surveying and Geomatics (AFLAG)
- Lembaga Jurukur Tanah Malaysia
- Jabatan Ukur dan Pemetaan Malaysia (JUPEM)
- Royal Institution of Surveyors Malaysia (RISM)
- International Federation of Surveyors (FIG)



CURRENT PRESIDENT

LSr Md Rodi bin Ismail

President, Association of Authorised
Land Surveyors Malaysia (PEJUTA)

PEJUTA Secretariat



**Association of Authorised Land
Surveyors Malaysia (PEJUTA)**

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Email: secretariat@pejuta.com.my

Website: www.pejuta.com.my

A NOTE ON SEASC 2026

As the host organiser of SEASC 2026, PEJUTA is deeply honoured to welcome land surveyors, geomatics professionals, researchers, policymakers and industry experts from across Southeast Asia and the world to Kuala Lumpur, Malaysia. This congress represents not only a professional milestone for PEJUTA but also a proud moment for every licensed land surveyor in Malaysia.

Malaysia has always held a special place in the heart of AFLAG. It was in Kuala Lumpur that the resolution to establish AFLAG was first passed in 1995, and it was in Penang that AFLAG was officially launched in 1997. Thirty years on, it is with great pride and a deep sense of responsibility that PEJUTA brings the SEASC family back home to Malaysia.

We hope that SEASC 2026 will be a congress that inspires, connects and advances the profession for years to come.

ABOUT THE SOUTH EAST ASIA SURVEY CONGRESS (SEASC)

A Congress Born from Passion

The South East Asia Survey Congress, widely known as SEASC, is the premier regional gathering for land surveyors, geomatics professionals, researchers, policymakers and industry experts from Southeast Asia and beyond. It is a congress that was not born from a formal resolution or a committee decision, but from the genuine passion and enthusiasm of a group of land surveyors who believed in the power of bringing professionals together across borders.

The story of SEASC begins in the late 1970s, when the Institution of Surveyors, Australia, one of the most active and forward-thinking professional surveying organisations of its time, decided to venture beyond its own shores and organise an international gathering in Singapore. That gathering was called the South East Asia Survey Congress. It was supported wholeheartedly by surveyors from Singapore and neighbouring countries, with the late Mr Goh Mia Hoon of the Singapore Institute of Surveyors and Valuers serving as the Organising Chairman.

What began as a single gathering in Singapore grew into something far greater than anyone could have imagined.

A Congress That Grew Across the Region

Over the following decades, SEASC continued at regular intervals, moving from Singapore to Bali, then to Hong Kong, and subsequently back to Malaysia and Singapore in the 1990s. With each edition, the congress attracted more participants, more countries and more ideas, steadily cementing its reputation as the most significant professional gathering for land surveyors and geomatics practitioners in Southeast Asia.

It was at the fourth SEASC held in Malaysia, organised by the then Director General of Surveys, Dato Abdul Majid Mohamed, that the idea of establishing a permanent regional federation to support and grow the congress was first formally proposed. That idea led directly to the founding of the ASEAN Federation of Land Surveying and Geomatics, AFLAG, in 1995. Since its establishment, AFLAG has taken on the responsibility of organising and overseeing SEASC, ensuring that the congress continues to serve the region with the same spirit of openness, collaboration and professional excellence that defined its earliest editions.

The Congress Today

SEASC has evolved significantly since its humble beginnings. What was once a regional gathering of surveyors from a handful of countries has grown into a premier international platform that attracts delegates, speakers, researchers, policymakers and industry leaders from across Southeast Asia and beyond. Each edition of SEASC serves as a platform for scholarly exchange, professional collaboration and technological innovation, addressing the most pressing issues facing the land surveying and geomatics profession in the region.

The congress emphasises the integration of scientific research, modern surveying technologies and spatial data management to address critical issues in land administration, infrastructure planning, environmental monitoring and sustainable development. By fostering knowledge sharing and harmonisation of professional standards across Southeast Asia, SEASC contributes to strengthening institutional capacity, promoting evidence-based decision-making and enhancing the role of geospatial information in regional growth and resilience.

SEASC Through the Years

From its first edition in Singapore in the late 1970s to its 18th edition in Kuala Lumpur in 2026, SEASC has travelled across Southeast Asia and beyond, bringing professionals together in the spirit of knowledge sharing, collaboration and regional unity.

Edition	Year	Host City	Country
1st SEASC	1979	Singapore	Singapore
2nd SEASC	Early 1980s	Bali	Indonesia
3rd SEASC	1987	Hong Kong	Hong Kong
4th SEASC	1991	Kuala Lumpur	Malaysia
5th SEASC	1995	Singapore	Singapore
6th SEASC	1999	Fremantle, Western Australia	Australia
7th SEASC	2003	Hong Kong	Hong Kong
8th SEASC	2005	Bandar Seri Begawan	Brunei
9th SEASC	2007	Christchurch	New Zealand
10th SEASC	2009	Bali	Indonesia
11th SEASC	2011	Kuala Lumpur	Malaysia
12th SEASC	2013	Manila	Philippines
13th SEASC	2015	Singapore	Singapore
14th SEASC	2017	Bandar Seri Begawan	Brunei
15th SEASC	2019	Darwin	Australia
16th SEASC	2022	Bandung	Indonesia
17th SEASC	2024	Manila	Philippines
18th SEASC	2026	Kuala Lumpur	Malaysia

A Note on Malaysia's Connection to SEASC

Malaysia holds a very special place in the history of SEASC and AFLAG. It was at the fourth SEASC held in Malaysia that the founding idea of AFLAG was first proposed. It was in Kuala Lumpur that the resolution to establish AFLAG was passed in 1995. It was in Penang that AFLAG was officially launched in 1997. And it is in Kuala Lumpur that AFLAG now celebrates its 30th Anniversary at SEASC 2026.

Malaysia's connection to this congress is not merely geographical. It is a connection of vision, dedication and professional pride that runs deep through the history of land surveying in this country and across the region.

We are proud to welcome you to Malaysia. We are proud to host SEASC 2026. And we are proud to continue a legacy that began with a group of passionate surveyors who believed that when professionals come together, the profession and the communities it serves are made stronger.



ABOUT THE 18TH SOUTH EAST ASIA SURVEY CONGRESS — SEASC 2026

OVERVIEW

The 18th South East Asia Survey Congress, SEASC 2026, is held on 18 and 19 August 2026 at Shangri-La Kuala Lumpur, Malaysia. Organised by the ASEAN Federation of Land Surveying and Geomatics, AFLAG, and co-organised by the Association of Authorised Land Surveyors Malaysia, PEJUTA, SEASC 2026 brings together land surveyors, geomatics professionals, researchers, policymakers and industry leaders from across Southeast Asia and beyond for two days of knowledge sharing, professional collaboration and regional dialogue.

This edition carries a very special significance as it coincides with the 30th Anniversary of AFLAG, making it not only a premier professional congress but also a historic celebration of three decades of regional cooperation and professional excellence.

Today PEJUTA is proud to serve as the co-organiser of the 18th South East Asia Survey Congress, SEASC 2026, alongside the ASEAN Federation of Land Surveying and Geomatics, AFLAG. It is a moment that reflects the growth, maturity and standing of the Malaysian land surveying profession on the regional and global stage.



CONGRESS THEME

"Smart Geospatial Solutions for a Sustainable and Resilient Southeast Asia Development"

The theme of SEASC 2026 reflects the urgent need for the land surveying and geomatics profession to embrace innovation and apply the power of geospatial science in the service of a more sustainable and resilient Southeast Asia. It calls on practitioners, researchers and policymakers alike to think beyond convention, harness smart technologies and work together toward a future that is equitable, inclusive and environmentally responsible.

CONGRESS OBJECTIVES

- To provide a premier regional platform for the exchange of knowledge, ideas and best practices in land surveying, geomatics and geospatial science
- To promote regional cooperation and harmonisation of professional standards across Southeast Asia
- To showcase the latest innovations, technologies and research in surveying and geomatics
- To address critical issues in land administration, infrastructure planning, environmental monitoring and sustainable development
- To strengthen the connection between the geospatial profession and the United Nations Sustainable Development Goals
- To foster meaningful dialogue between the private sector, academia, government and professional institutions across the ASEAN region
- To celebrate the 30th Anniversary of AFLAG and honour its contribution to the surveying and geomatics profession in Southeast Asia

CONGRESS PROGRAMME HIGHLIGHTS

KEYNOTE SPEECHES

SEASC 2026 features two distinguished keynote speakers bringing global perspectives to the future of geospatial science in Southeast Asia.

1st Keynote Speech

Teo Chee Hai

Former Senior Advisor, Department of Economic and Social Affairs (DESA), United Nations

"A New Paradigm: Transforming Together for Everyone, Everywhere"

2nd Keynote Speech

Willem Van Der Muur

World Bank

"Integrated Land Administration and Spatial Planning (ILASP): Advancing Climate-Informed Land Governance at Scale in Indonesia"

Plenary Talks

SEASC 2026 features ten plenary talks delivered by distinguished speakers from across the region and the world, covering topics aligned with the congress theme and the United Nations Sustainable Development Goals. Please refer to the Congress Programme section of this book for the full listing of plenary talks, speakers and presentation titles.

Technical Sessions and Panel Discussions

Four technical sessions and panel discussions form the core of the SEASC 2026 technical programme, each moderated by a distinguished leader from across the ASEAN region. The sessions cover topics ranging from deep learning and utility networks to GeoAI, surveying technologies, gender equality and the United Nations Sustainable Development Goals. Please refer to the Congress Programme section of this book for full details.

Guest Speaker

SEASC 2026 welcomes Chen Li, Vice Chair of the Geospatial Information and International Cooperation Branch of the China Association for Geospatial Industry and Sciences, China, as a Guest Speaker. Her presentation is entitled "Deepening International Exchange and Cooperation to Jointly Shape a New Blueprint for Spatiotemporal Intelligence."

Sponsor Presentations

SEASC 2026 features dedicated sponsor presentation slots for our valued Platinum and Gold Sponsors, providing them with an opportunity to showcase their latest innovations and solutions to an international audience of geospatial professionals.

Surveying, Geomatics and the United Nations Sustainable Development Goals

A distinctive feature of SEASC 2026 is its strong alignment with the United Nations 17 Sustainable Development Goals. The congress programme dedicates a special segment to exploring the role of geomatics in achieving the SDGs, with plenary talks and technical sessions specifically addressing SDG 4 (Quality Education), SDG 5 (Gender Equality), SDG 8 (Decent Work and Economic Growth), SDG 9 (Industry, Innovation and Infrastructure), SDG 10 (Reduced Inequalities) and SDG 11 (Sustainable Cities and Communities).

AFLAG 30th Anniversary Celebration

The evening of 18 August 2026 will be marked by a special Fellowship Dinner held in conjunction with the AFLAG 30th Anniversary Celebration at the Sarawak Grand Ballroom, Shangri-La Kuala Lumpur. This special occasion commemorates three decades of AFLAG's achievements and provides an excellent opportunity to reunite with past and present leaders, members and distinguished guests from across the ASEAN region.

Technical Tour Visit

Delegates are invited to join the SEASC 2026 Technical Tour Visit on 20 August 2026, a specially curated journey through some of Kuala Lumpur's most iconic destinations. Please refer to the Technical Tour Visit section of this book for full details including the tour itinerary, fee and important notes.

Congress at a Glance

Event	18th South East Asia Survey Congress (SEASC 2026)
Theme	Smart Geospatial Solutions for a Sustainable and Resilient Southeast Asia Development
Date	18 and 19 August 2026
Venue	Grand Ballroom, Shangri-La Kuala Lumpur
Organised by	ASEAN Federation of Land Surveying and Geomatics (AFLAG)
Co-organised by	Association of Authorised Land Surveyors Malaysia (PEJUTA)
Supported by	Lembaga Jurukur Tanah Malaysia Malaysia Convention & Exhibition Bureau (MYCEB)
Official Venue Partner	Shangri-La Kuala Lumpur
Website	seasc2026.aseanflag.org
Email	seasc2026kl@gmail.com
Contact No.	+603-4108 8540

Congress Room Layout



LOCAL ORGANISING COMMITTEE

SEASC 2026 | Kuala Lumpur, Malaysia



**LSr MD RODI
ISMAIL**



**LSr SHAHARUDDIN
MUSA**



**LSr MOHD LATIF
ZAINAL**



**LSr AZHAR
HUSAIN**



**LSr EZAM
ARIFFIN**



**RAJA
BISMAYAZAN
RAJA ABD AZIZ**



VIVI SUHAYU



**MUHAMAD HAFIZ
ZAKARIA**



**SHAFIEQ ZIKRI
SHAMSUL NIZAM**



**WAN AMIRUL
SYAHID**



**AIMAN
SHAHBUDIN**



MARIAM ATAN



**FARAH ADILA
SAPUAN**



**LABAINUR SAFER
ALAGAMIDI**



ADRIANA DAMIA

A Note of Appreciation

The SEASC 2026 Local Organising Committee wishes to express its heartfelt gratitude to every member of the committee for their extraordinary dedication and commitment to making SEASC 2026 a success.

Behind every successful international congress is a team of individuals who work tirelessly behind the scenes, giving their time, expertise and passion without hesitation. To every member of our committee who juggled their professional responsibilities alongside the enormous task of organising an international congress — this achievement belongs to all of you.

It was not always easy. But it was always worth it.

Thank you. From the bottom of our hearts, thank you.

CONGRESS PROGRAMME

AUGUST 18, 2026 (TUESDAY)			
TIME	ACTIVITY		REMARKS
08:00 – 09:00	Registration		Grand Ballroom Foyer
09:00 – 09:10	Doa Recitation & National Anthem		Grand Ballroom
09:10 – 09:20	Welcome Remarks & Acknowledgment of Delegates Declaration and Opening of SEASC 2026		LSr Shaharuddin Musa <i>President</i> The ASEAN Federation of Land Surveying and Geomatics
09:20 – 09:50	1st Keynote Speech		Teo Chee Hai <i>Former Senior Advisor,</i> <i>Department of Economic and Social Affairs (DESA) / United Nations (UN)</i>
09:50 – 10:05	Officiating Ceremony		YB Tuan Syed Ibrahim Syed Noh <i>Deputy Minister of Natural Resources and Environmental Sustainability</i>
10:05 – 10:25	1st Plenary Talk	Reinventing Spatial Intelligence	Prof. Dr. Zaffar Mohamed-Ghouse <i>Vice President & Director of Woolpert and Chair UN-GGIM Geospatial Societies</i>
10:30 – 11:40	Moderator: Ady S. Ruchiatan <i>AFLAG Honorary President</i>	Technical Session 1 & Panel Discussion	Ir Dr. Wallace Wai Lok Lai <i>Professor and Associate Head of Department of Land Surveying and Geospatial Science (LSGS) of The Hong Kong Polytechnic University, Hong Kong SAR China</i> Saiful Nizam Mustafa <i>Head Geomatics, Exploration Geophysics Solutions, Geoscience Solutions, PETRONAS, Malaysia</i> Dr. Mimie Diana Ghazali <i>Universiti Teknologi Mara (UITM), Malaysia</i>
11:45 – 12:05	2nd Plenary Talk	Sustainable Cities and Communities (11) Surveying & Geomatics and the UN Sustainable Goals;	Hon. Randolph Sevidal Vicente, MSc. <i>Member, Professional Regulatory Board of Geodetic Engineering, Philippines</i> <i>Honorary President, ASEAN Federation of Land Surveying and Geomatics (ASEAN FLAG)</i>

AUGUST 18, 2026 (TUESDAY)

12:10 – 12:20	Guest Speaker	Chen Li <i>Vice Chair of the Geospatial Information and International Cooperation Branch, China Association for Geospatial Industry and Sciences (CAGIS), China</i>	
12:20 – 12:45	Platinum Sponsor	CHCNAV by Yap Xiao Wah <i>Technical Sales Director, Bandwork GPS Solution Sdn Bhd</i>	
12:50 – 14:10	Lunch Break		
14:10 – 14:30	3rd Plenary Talk	ASEAN Surveying in the Near Future: Challenges, Opportunities, and Transformation	LSr Dr. Ahmad Sanusi Che Cob <i>Chairman, ASEAN Competent Authority Committee on Surveying (ACACS) Surveyors (RFPS)</i>
14:35 – 14:55	4th Plenary Talk	Marine Geospatial Technologies and Hydrography	Rear Admiral Dr. Najhan Bin Md Said <i>Director General of National Hydrographic Centre, Malaysia</i>
15:00 – 16:30	Moderator: PG Matusin Matasan <i>AFLAG Honorary President</i>	Technical Session 2 & Panel Discussion	GeoAI and Geo-analytics: Advancing Geospatial Accuracy and Automation Dr. Fickrie Muhammad <i>Hydrography Research Group, Faculty of Earth Sciences and Technology (FEST), Institut Teknologi Bandung, Indonesia</i> Amin Athari Wan Mahadi <i>Founder, Athari Intelligence, Malaysia</i> Lisa Kao <i>Feng Chia University, Chinese Taipei</i> Amri Chatib <i>Chief Marketing Officer, PAGEO Group Vice President, Indonesian Surveyors Association (ISI), Indonesia</i>
16:35 – 16:55	5th Plenary Talk	Smart Cadastre Systems	Romeo P. Verzosa <i>President, Geodetic Engineers of the Philippines (GEP), Philippines</i>

AUGUST 19, 2026 (WEDNESDAY)			
TIME	ACTIVITY		REMARKS
08:00 – 09:00	Registration		Grand Ballroom Foyer
09:00 – 09:30	2nd Keynote Speech		Willem Van Der Muur <i>World Bank</i>
09:30 – 10:40 Moderator: Mario Jose O. Silvino <i>AFLAG Vice President</i>	Technical Session 3 & Panel Discussion	Innovations in Surveying Technologies: From Conventional Methods to Smart Solutions	Masaru Kaidzu <i>Surveyor Education Center Foundation, Japan</i> Simon Ironside <i>Commission 4, International Federation of Surveyors (FIG), New Zealand</i> Wei-Chia Hung <i>The Chinese Commercial Association of Surveying & Mapping (C.S.M.A.), Chinese Taipei</i>
10:45 – 11:00	Gold Sponsor		LEICA GEOSYSTEM by Nashriq Ferdaus <i>Business Development Manager, oSEA, Leica Geosystems</i>
11:00 – 11:20	6th Plenary Talk	Leadership, Ethics, and Accountability in	Michelle Blicavs <i>Chief Executive Officer, Surveyors Australia, Australia</i>
11:25 – 11:45	7th Plenary Talk	Education, Training & Capacity	Florent Aguesse <i>Managing Director, Skilltrade BV – Survey Academy, Netherland</i>
11:50 – 12:05	Gold Sponsor		SUPERMAP by Satria Tesa Vici Andi <i>SuperMap</i>

Surveying & Geomatics and the UN Sustainable Goals;
Role of Geomatics in the achievement of the United Nations'17 Sustainable Development Goals



12:05 – 12:25	8th Plenary Talk	Industry, Innovation and Infrastructure (9)	LSr Mohammad Azmi Mohd Zin <i>Honorary President, the ASEAN Federation of Land Surveying and Geomatics (AFLAG), Malaysia</i>
12:30 – 14:00	Lunch Break		
14:00 – 14:20	9th Plenary Talk	Sustainable Cities and Communities (11)	Murakami Masaki <i>Vice-President, Japan Federation of Surveyors, Japan</i>
14:25 – 14:45	10th Plenary Talk	Climate Action, Disaster Risk Management and Environmental Sustainability	Dr. Khamarrul Azahari Razak <i>Senior Research Fellow, Disaster Preparedness and Prevention Center (DPPC), Malaysia-Japan International Institute of Technology (MIIT), Malaysia</i>
14:50 – 16:00 Moderator: Leong Kin Weng <i>AFLAG Senior Vice President</i>	Technical Session 4 & Panel Discussion	Quality Education (4) Gender Equality (5) Decent work and Economic Growth (8) Reduced inequalities (10)	Estrellita Bordallo <i>ECB Land Surveying Services / Geodetic Engineers of the Philippines / PTC-Women Engineers Network, Philippines</i> Gavin Kao <i>Feng Chia University, Chinese Taipei</i> Dr. Jian GUO (Orianna) <i>The Hong Kong Polytechnic University, Hong Kong SAR China</i>
16:05 – 16:25	11th Plenary Talk	Industry, Innovation and Infrastructure (9)	Professor Peter Tian-Yuan Shih <i>Professor Emeritus, Department of Civil Engineering of the National Yang Ming Chiao Tung University, Chinese Taipei</i>
16.30 Onwards	Closing Ceremonies		LSr Shaharuddin Musa <i>President, The ASEAN Federation of Land Surveying and Geomatics (AFLAG)</i>

SEASC 2026 TECHNICAL TOUR VISIT

Explore Kuala Lumpur's Iconic Landmarks,
Heritage and Local Culture



MERDEKA 118
(2nd Tallest Building
in the World)
Modern Malaysia,
Innovation & Excellence



**BANGUNAN
SULTAN ABDUL SAMAD**
History, Heritage &
Architectural Significance



**PASAR SENI /
CENTRAL MARKET**
Local Culture, Arts, Crafts &
Malaysian Experience



Join us for a specially curated technical and cultural tour for SEASC 2026 delegates. Experience Kuala Lumpur through its modern achievements, historical landmarks and vibrant local culture.



Learn. Explore. Connect.



DATE
20 August 2026,
Thursday



TIME
Morning to
Evening



ASSEMBLY POINT
Shangri-La
Kuala Lumpur



USD 30 / pax
Inclusive of:
✔ Transportation
✔ Entrance Fee
✔ Lunch



**SCAN TO JOIN
THE TECHNICAL
TOUR VISIT**

Register now via Google Form
Limited slots available!



IMPORTANT NOTES

- ✔ SEASC 2026 registered participants only.
- ✔ Registration is on a first-come, first-served basis.
- ✔ Confirmation will be provided upon successful registration and payment.
- ✔ Please bring comfortable attire and walking shoes.

SEASC 2026 TECHNICAL TOUR VISIT

Thursday, 20 August 2026

Time	Programme / Activity	Venue	Remarks
08:30 – 09:00	Assembly and registration for technical tour	Shangri-La Kuala Lumpur	Participants gather at hotel lobby / designated meeting point
09:00 – 09:30	Departure to Merdeka 118	From Shangri-La Kuala Lumpur	By arranged transport
09:30 – 11:30	Technical visit and briefing	Merdeka 118	Proposed session may include welcome briefing, project overview, technical presentation, guided tour, and Q&A
12:00 – 12:15	Transfer to Sultan Abdul Samad Building	From Merdeka 118	By arranged transport
12:30 – 13:30	Lunch break	Sultan Abdul Samad Building	Lunch arrangement at Sultan Abdul Samad Building
13:30 – 16:30	Heritage and urban landmark visit	Sultan Abdul Samad Building	External visit / guided explanation on historical and urban significance
17:00 – 17:30	Transfer to Pasar Seni / Central Market	Kuala Lumpur	Short transfer
17:30 – 18:30	Cultural and local market visit	Pasar Seni / Central Market	Free walkabout, cultural exposure, souvenir shopping
18:30 – 19:00	Return transfer	Back to Shangri-La Kuala Lumpur	End of technical tour
19:00	Arrival	Shangri-La Kuala Lumpur	Programme ends

GUEST OF HONOR

Officiating Ceremony – SEASC 2026



Yang Berhormat Tuan Syed Ibrahim Syed Noh

Deputy Minister of Natural Resources
and Environmental Sustainability,
Malaysia
Member of Parliament for Ledang

Yang Berhormat Tuan Syed Ibrahim bin Syed Noh is the Deputy Minister of Natural Resources and Environmental Sustainability of Malaysia, a position he assumed on 17 December 2025. In this role, he oversees the nation's natural resources and environmental sustainability portfolio, which encompasses land, survey and geospatial matters, minerals and geoscience, biodiversity management and forestry, and environmental sustainability.

A Member of Parliament for Ledang since 2018 and State Chairman of the People's Justice Party of Johor, Yang Berhormat has built a distinguished political career marked by a deep commitment to public service, good governance and the sustainable development of Malaysia's natural resources.

It is with great honour that AFLAG and PEJUTA welcome Yang Berhormat Tuan Syed Ibrahim Syed Noh as the officiating guest of SEASC 2026. His presence is a powerful affirmation of the importance of land surveying and geospatial science in the sustainable development of Malaysia and the wider Southeast Asian region.

KEYNOTE SPEAKERS

1st Keynote Speaker



Teo Chee Hai

A New Paradigm: Transforming Together for Everyone, Everywhere
(From understanding the world to enabling it together, for everyone, everywhere)

Surveying and mapping have long provided the foundation for understanding our world, especially physically. This foundation is evolving, transitioning from traditional, land-cantered, and static approaches toward integrated ecosystem approach that connects people, place, activities, and nature across space and time.

This shift supports better decisions and coordinated actions with collective insights, and with innovation, partnerships, and a shared vision, deliver real-world impact for the wellbeing for everyone, everywhere.

KEYNOTE SPEAKERS

2nd Keynote Speaker



Willem Van Der Muur

Integrated Land Administration and Spatial Planning (ILASP): Advancing Climate-Informed Land Governance at Scale in Indonesia

This presentation introduces the Integrated Land Administration and Spatial Planning (ILASP) Project in Indonesia, a large-scale initiative supported by the World Bank to strengthen climate-informed spatial planning and integrated land administration.

The presentation will highlight how integrated geospatial infrastructure is being developed to support climate-informed spatial planning, strengthen land tenure security, and guide development away from high-risk and environmentally sensitive areas. It will also discuss institutional coordination arrangements across key agencies and the role of digital land information systems in enabling more efficient and transparent land governance.

Lessons from early implementation will be shared, with emphasis on scalability, data integration, and alignment between land administration and spatial planning systems.

PLENARY SPEAKERS

1st Plenary Talk



Dr Zaffar Mohamed-Ghouse

Future of Geospatial Information
Ecosystem - Beyond SDIs

As societies become increasingly data-driven, the role of geospatial information is evolving beyond traditional Spatial Data Infrastructures (SDIs) toward a more intelligent, interconnected, and knowledge-centric ecosystem. This presentation explores how geospatial information systems are transforming into machine-readable, interoperable environments that integrate authoritative spatial data with emerging technologies such as artificial intelligence, digital twins, and diverse data sources. The objective is to support evidence-based decision-making, improve resilience, and enhance the value of geospatial information across government, industry, and communities. A key focus of the presentation is the application of knowledge graphs and semantic technologies as foundations for the future geospatial ecosystem. Knowledge graphs enable seamless data integration, eliminate silos, embed metadata such as provenance and quality directly with data, and support the continuous evolution of information. By using internationally recognized standards and ontologies, they improve interoperability, reduce ambiguity, and increase trust in geospatial data. Drawing on practical examples, including Dynamic Vicmap initiatives, the presentation demonstrates how knowledge-driven approaches can deliver scalable and real-world outcomes. It concludes that knowledge graphs will become a critical backbone for AI-enabled systems, automation, and real-time decision-making, underpinning the next generation of connected geospatial ecosystems and maximizing the long-term societal and economic value of geospatial information.

2nd Plenary Talk



Hon. Randolph Sevidal Vicente, MSc.

Making Philippine
Development Sustainable and
Resilient: Policies, Plans,
Programs and Progress

Philippines is one of the countries that is highly vulnerable to natural disasters based on official international risk indices. It is situated at the easternmost part of the ASEAN region, but unfortunately, along the “Pacific Ring of Fire”, the usual pathways of extreme tropical cyclones, and localities wherein other climate-related hazards take place. These hazardscapes are the primary reasons of having considerable number of fatalities, destruction of critical physical infrastructures, adversely affected social interaction and/or systems, and extensive disruption of key economic activities, to name a few

In response to this situation, the government has promulgated and enforced relevant laws, rules and regulations as well as designed and implemented priority programs and projects. It has also adopted the all-of-government approach, formulated medium- and long-term development plans, subscribed to and signed Multilateral Agreements and Treaties, launched high-impact initiatives involving major stakeholders.

The discussion focused on the descriptions of these policies, programs and projects particularly aimed at achieving sustainable development and resilient society, and the corresponding progress encompassing status and challenges. The presentation likewise summarized the roles of surveyors, geodetic/survey engineers, geomatics practitioners, and the institutions representing the same. The paper concluded with a Call to Action.

3rd Plenary Talk



Lsr Dr Ahmad Sanusi Che Cob

ASEAN Registered Surveyors
(ARS) and Registered Foreign
Professional Surveyors (RFPS)

Southeast Asia's rapid urbanization, climate risks, and complex cross-border infrastructure demands call for more than advanced technology — they require a mobile, highly skilled geospatial workforce able to deploy smart solutions across ASEAN borders. This paper examines how the ASEAN Registered Surveyor (ARS) and Registered Foreign Professional Surveyor (RFPS) frameworks, backed by the ASEAN Competent Authority Committee on Surveying (ACACS), build this workforce by linking cutting-edge geospatial technology with regional development goals. Supporting mechanisms include Mutual Recognition Arrangements (MRAs) that streamline crossborder expertise recognition while respecting national sovereignty, and Continuous Professional Development (CPD) in tools like LiDAR, satellite radar interferometry, and AI-driven geospatial analytics.

The paper shows how surveyors have shifted from boundary work to becoming spatial data architects, applying digital twins, BIM-GIS integration, and marine cadastre techniques to flood risk, smart cities, and blue economy projects. Talent deployment is proposed across four priority zones: transboundary corridors, disaster-prone basins, smart megacities, and exclusive economic zones.

A 2026–2030 roadmap is outlined — harmonizing emerging tech skills by 2027, expanding local-foreign joint ventures by 2029, and building a fully integrated ASEAN geospatial talent ecosystem by 2030 — closing with a call to action for practitioners, industry, and policymakers alike.

4th Plenary Talk



**Rear Admiral Dr Najhan
Bin Md Said**

Malaccamax: Unlocking the
Power of Marine Geospatial
Ecosystems

The Strait of Malacca is one of the world's busiest and most strategically significant maritime corridors, handling more than one-third of global seaborne trade. At the heart of this crucial shipping route is the concept of "Malaccamax," which refers to the largest vessel size that can safely navigate the Strait's shallowest sections. However, Malaccamax signifies more than a physical limitation; it embodies the integration of hydrography, authoritative marine geospatial information, international standards, and regional collaboration, all of which are essential for safe and efficient navigation.

In Malaysia and Southeast Asia, the sea serves not only as a transportation route but also as a vital economic zone that supports shipping, port operations, fisheries, offshore energy development, defence, environmental management, and the growing Blue Economy. Realising its full potential depends on our ability to understand, manage, and connect marine environmental information. Marine Geospatial Information provides the critical spatial knowledge needed for this purpose and, when considered as a dynamic system, represents its "nyawa" — the vital link connecting maritime space with informed decision-making.

Unlocking this potential requires a shift from using isolated datasets and institutional capabilities to establishing an integrated Marine Geospatial Ecosystem. In this ecosystem, information authority, hydrography, technology, standards, governance, academia, industry, and maritime communities are interconnected. The challenge extends beyond the availability of marine data; it lies in our capacity to connect, share, and transform trusted information into actionable knowledge.

Malaccamax can be understood both as a maritime reality and a strategic metaphor, expanding the meaning of "maximum" — from the maximum vessel our waters can accommodate to the maximum value we can derive from our maritime space through knowledge, connectivity, and collaboration.

Keywords: Marine Geospatial Ecosystem, Malaccamax

5th Plenary Talk



Romeo P. Verzosa

Real Property Valuation
Cadastre

Land administration in the Philippines continues to face challenges due to multiple agencies, overlapping mandates, and disconnected land information systems. These issues affect the accuracy, efficiency, and reliability of land and property information, particularly in tax mapping, valuation, assessment, land-use planning, development management, and coordination between local government units (LGUs) and national agencies.

This presentation introduces the Real Property Valuation Cadastre (RPVCad) as a local GIS-enabled platform designed to integrate authoritative spatial land information with LGU property records, valuation, assessment, tax mapping, tax collection, transaction tracking, document management, and treasury-related functions. The approach is anchored on the Land Administration Domain Model (LADM), which provides a conceptual framework for organising relationships among parties, rights, responsibilities, spatial units, and administrative information.

The proposed province-wide implementation in Zambales, covering its 13 municipalities, demonstrates a practical LGU-level application of RPVCad. Currently in the data-gathering and system-development stage, the initiative aims to establish a standardised, interoperable, and sustainable land and real-property information environment for the Province and its municipalities.

RPVCad demonstrates how LADM-based information integration can help LGUs move from fragmented records and isolated tax-mapping activities toward coordinated, data-driven land management. Its success will depend on data quality, standardised workflows, institutional coordination, capacity building, and continuous data maintenance.

6th Plenary Talk



Michelle Blicavs

Ethics Under Pressure:
Leadership and Public Trust in
Modern Surveying

Surveyors hold positions of trust whose decisions shape boundaries, infrastructure, public safety and communities for decades. Yet ethical choices are often made under commercial pressure, tight deadlines and limited resources.

This presentation explores ethics as professional judgement under pressure and leadership before complaints arise. It updates delegates on the proposed FIG publication, Statement of Ethical Principles and Model Code of Professional Conduct for Surveyors and Other Land Professionals, currently under consultation through FIG Commission 1. South East Asian delegates are warmly invited to help shape the publication through regional input.

Drawing on practical case studies, the session examines how pressure, opportunity and rationalisation can erode good judgement. It also considers emerging challenges created by artificial intelligence, automation, digital twins, remote sensing, unpiloted aerial vehicles and complex data interpretation. Technology may support professional judgement, but it does not replace accountability.

Participants will be introduced to the CLIP framework, adapted from G. Richard Shell's The Conscience Code (2021): Consequences, Loyalties, Identity and Principles. These four questions provide a practical, defensible method for making difficult decisions when reflection time is scarce.

The session closes by examining leadership as ethics in operational form: speaking up early, modelling accountability and shaping a culture in which professional obligations are understood and upheld.

The session closes by examining leadership as ethics in operational form: speaking up early, modelling accountability and shaping a culture in which professional obligations are understood and upheld.

7th Plenary Talk



Florent Aguesse

From Classroom to Seabed: Scaling Hydrographic Competency Through Blended Learning

The offshore sector faces a structural shortage of qualified hydrographic survey professionals as demand increases through offshore energy, subsea infrastructure and complex installation projects. Hydrography alone cannot meet this demand. Professionals from land surveying, geomatics and related disciplines offer a practical solution because their skills in positioning, geodesy, data processing and quality control are transferable.

Under-qualified personnel increase risks to safe navigation and project delivery. The International Hydrographic Organization (IHO) has addressed this through its Capacity Development Strategy and Sub-Committee, but industry-wide cooperation is needed to raise awareness and expand access to hydrographic careers.

Traditional competency development combines institution-based education with offshore experience. Although effective, this approach is slow, difficult to scale and may include content with limited practical relevance. Skilltrade addresses these constraints through targeted upskilling and blended learning.

Its scalable model provides modular pathways in bathymetry, geodesy, positioning, geophysics and offshore survey operations. E-learning, instructor-led sessions and scenario-based activities culminate in a practical offshore field project. A structured assessment framework aligned with international hydrographic education standards ensures consistent and traceable progress. Since 2007, Skilltrade has delivered Category B hydrographic surveyor education to more than 300 students.

Through its partnership with Deep B.V., students gain practical exposure to uncrewed surface vessels, machine learning and LiDAR bathymetry. Collaboration with local institutions and tailored courses also makes global training locally relevant.

This presentation demonstrates how scalable digital competency frameworks can reduce workforce bottlenecks, improve training consistency and expand the talent pipeline by opening hydrography to professionals from adjacent disciplines. This will help regions build local capability as demand for hydrographic and geophysical surveying continues to grow.

Keywords: Hydrographic survey; workforce shortage; transferable skills; blended learning; e-learning; competency framework; IHO S-5; training scalability

Authors: Florent Aguesse and Bram Zuiderwijk, Skilltrade B.V.

8th Plenary Talk



LSr Mohammad Azmi Mohd Zin

Merdeka 118: Possibly the Highest
Strata Title in the World

Merdeka 118 – A Landmark of Architectural and Economic Significance. Merdeka 118 represents a monumental achievement in contemporary architecture and urban development, positioning Malaysia prominently within the global skyline as one of the tallest structures in the world. Strategically located in Kuala Lumpur, the tower occupies a site of profound historical importance, adjacent to the location where the nation's independence was formally declared. Developed by PNB Merdeka Ventures Sdn Bhd, a wholly owned by Permodalan Nasional Berhad, the project embodies both economic ambition and national identity.

Its architectural design draws inspiration from the iconic gesture of Tunku Abdul Rahman during the declaration of independence, thereby integrating symbolic meaning with modern engineering excellence. A notable aspect of Merdeka 118 lies in its strata ownership structure, which positions it among the highest strata-titled developments globally.

This feature reflects an evolution in high-rise property ownership, demonstrating the feasibility of subdivided ownership within supertall skyscrapers. Stratification of Merdeka 118 follows Strata Title Act 1985 (as at March 2024) and The Strata Management Act 2013 (as at January 2024). Limited Common Property is envisaged at the very early stage to determine the common property for each type individual strata parcel within the strata scheme.

In conclusion, Merdeka 118 stands not merely as an engineering feat, but as a comprehensive representation of Malaysia's historical legacy, economic progress, and forward-looking vision in urban development.

9th Plenary Talk



Murakami Masaki

Proposal for a Method of Conducting
Public Surveying Exclusively in
Reference to Continuously Observing
Reference Stations as National Control
Points

Japan's Geospatial Information Authority (GSI) operates 1,318 Continuously Operating Reference Stations (CORSs) as national control points, providing both coordinates and GNSS observation data. The network began with 110 stations in 1993 and expanded after demonstrating its value in detecting earthquake-related crustal deformation.

Following the 2001 amendment to the Survey Act, Japan adopted the International Terrestrial Reference Frame in 2002, enabling CORSs to be used directly for surveying. GSI updates CORS coordinates after major earthquakes and provides annual semi-dynamic correction parameters for relative positioning and quarterly correction parameters for point positioning. These services support accurate and consistent surveying in a country experiencing significant crustal movement.

However, GSI's General Standard of Operation Specifications for Public Surveys (GSOS) assumes the continued use of traditional triangulation points alongside CORSs. It also requires a four-tier hierarchy of control points beneath national control points. This creates complex procedures, while quality-control criteria designed for less accurate triangulation points prevent surveyors from fully benefiting from CORS accuracy and consistency.

From a private-sector perspective, we propose simplifying public control surveys by using CORSs exclusively, eliminating triangulation points and reducing the control-point hierarchy to two tiers. Applying quality-control criteria based on the demonstrated performance of modern surveying instruments would allow control points to be established with greater accuracy and consistency than currently required by GSOS.

This presentation outlines the development of Japan's CORS network and introduces the proposed surveying method.

11th Plenary Talk



Professor Peter Tian-Yuan Shih

Smart 3D Cadastral Mapping by
Integrating Network RTK-GNSS and
Gaussian Splatting for Georeferenced
Scene Reconstruction

This study presents a solution for 3D digital cadastral mapping that integrates Network RTK-GNSS positioning with Gaussian Splatting (GS) using consumer-grade smartphones. Although 3D Gaussian Splatting (3DGS) enables real-time, photorealistic rendering, its reliance on arbitrary relative coordinate systems limits its application in high-precision cadastral surveying.

The proposed workflow uses Network RTK to establish absolute Ground Control Points. These constraints are incorporated into bundle adjustment to georeference camera poses and sparse point clouds within the TWD97 coordinate system (EPSG:3826). Camera-to-world photogrammetric parameters are then converted into the world-to-camera format required for GS training.

Experiments conducted along a 75-m street section in Hsinchu, Taiwan, compared standard 3DGS, 3DGS-depth, 3DGS-MCMC and 2DGS. Visual and quantitative evaluations showed that 2DGS achieved the highest PSNR (25.49), performing particularly well on flat surfaces such as roads and walls. Through depth regularisation, 3DGS-depth achieved the best structural performance (SSIM: 0.786; LPIPS: 0.307).

Geometric accuracy was evaluated against terrestrial laser-scanning data using the Multiscale Model-to-Model Comparison algorithm. Absolute mean errors ranged from 0.022 to 0.063 m, with standard deviations of 0.240–0.352 m. 3DGS-depth achieved the highest geometric precision, with a mean error of 0.022 m and standard deviation of 0.240 m.

By connecting low-cost mobile data acquisition with high-precision geodetic reference systems, this research offers a practical approach to modernising 3D cadastral administration, smart urban modelling and sustainable geospatial management.

Keywords: 3D Gaussian Splatting; Network RTK; smart geospatial solutions; digital cadastral mapping; 3D reconstruction

TECHNICAL SESSION SPEAKERS

TECHNICAL SESSION 1



Ir Dr Wallace Wai Lok Lai

Utility and Void Mapping by MCGPR

Underground voids are invisible hazards that can cause road settlement, structural damage or sudden collapse. Multi-channel ground-penetrating radar (MCGPR) supports rapid, large-scale surveys but generates extensive B-scan and C-scan data, making manual interpretation slow, labour-intensive and dependent on expert experience. Voids are commonly identified through hyperbolic, cross-shaped, bowl-shaped and reverberation patterns associated with different risk levels. However, these patterns vary according to void dimensions and depth, pavement materials, signal contrast, noise and surrounding ground conditions.

This study proposes an AI-assisted void-detection and pattern-matching framework. First, a multi-channel expert prototype dataset is generated from confirmed void locations. The system retrieves each corresponding survey swath, identifies responses in neighbouring channels and determines spatial extent through cross-channel region expansion. This process converts expert knowledge into a structured reference library for model training and automated comparison.

Second, self-supervised pre-training enables the model to learn general GPR characteristics from large volumes of unlabelled MCGPR data by reconstructing masked radar signals and identifying consistent responses across neighbouring channels. Expert-guided prototype learning groups similar void responses while separating genuine patterns from noise and clutter. The model learns waveform characteristics, including amplitude, phase and polarity; local structures such as hyperbolic responses, layer discontinuities and repeated reflections; complete pattern properties such as type, scale and depth; and multi-channel spatial consistency.

During application, the system identifies candidate regions, generates feature embeddings and compares them with learned prototypes. Adjacent-channel responses and C-scan extent are evaluated to determine physical consistency. Outputs include void location, best-matching pattern, similarity score, estimated extent and suggested risk level.

The system is intended to support rather than replace engineering experts. It prioritises rapid, consistent screening and high recall, ranks suspicious targets and reduces manual review. Experts remain responsible for verification and field investigation, while confirmed findings expand the prototype library and improve future screening.

TECHNICAL SESSION 1



Saiful Nizam Mustafa

Shaping the Future of Asset
Management Through Talent,
Technology, and Innovation

As critical infrastructure networks become more complex, accurate and accessible underground utility information is essential for operational safety, efficient project delivery and resilient urban development. However, many organisations face fragmented datasets, inconsistent asset records, limited visualisation and slow access to critical information during operations and emergencies.

PETRONAS addressed these challenges by developing an enterprise 3D mapping system as the foundation of a digital twin environment for underground utilities. The platform transforms conventional records into an integrated geospatial system that centralises accurate 2D and 3D data, improves visualisation and data governance, and enables advanced spatial analysis. It supports operational planning, asset management and incident response while advancing PETRONAS' digitalisation and sustainability agenda through better asset integrity, data-driven decisions and reduced inefficiencies.

Improved planning and coordination can minimise unnecessary excavation, repeat site visits, equipment mobilisation and utility conflicts, reducing resource consumption, waste and carbon emissions. The platform also supports future predictive maintenance, infrastructure optimisation and integration with Extended Reality technologies, contributing to safer operations, stronger collaboration and sustainable asset lifecycle management aligned with PETRONAS' Net Zero Carbon Emissions 2050 aspiration.

Successful digital-twin implementation requires more than technology. It depends on geospatial professionals skilled in utility surveying, spatial data governance, 3D modelling, geospatial analytics, data integration and artificial intelligence. Building these capabilities enables local organisations to develop, maintain and use digital twins effectively.

This presentation examines the business drivers for developing local talent through digital twins for underground utility mapping and management. It highlights industry collaboration, professional development and knowledge transfer as strategies for strengthening institutional capacity. It also demonstrates the essential role of surveying and geomatics professionals in creating accurate, trusted spatial foundations.

By investing in people, digital skills and geospatial innovation, PETRONAS can accelerate digital-twin adoption, improve utility governance, reduce infrastructure risks and support safer, more resilient and sustainable asset management.

Key message: Digital twins are not only technology platforms; they also enable a digitally empowered geospatial workforce. Developing local capabilities creates regional professionals who are not merely technology users, but innovators and providers of smart solutions.

TECHNICAL SESSION 1



Dr. Mimie Diana Ghazali

Autonomous Deep Learning Framework
Assisted by Numerical Modelling for
Intelligent Utility Mapping and Sinkhole
Prevention

Ground Penetrating Radar (GPR) has emerged as a cornerstone Non-Destructive Testing (NDT) modality for subsurface utility mapping and the detection of localized anomalies, such as voids and cavities. Despite its broad utility, the efficacy of GPR in urban environments is frequently bottlenecked by the inherent subjectivity and labour-intensiveness of manual B-scan interpretation. In complex urban soil matrices, radargrams are often severely degraded by signal clutter, scattering, and attenuation caused by heterogeneous materials. Such interpretive ambiguities increase the risk of accidental utility strikes during excavation and impede the early identification of subsurface erosion precursors, typically induced by occult pipe leakages, which eventually manifest as catastrophic ground subsidence and sinkholes. To mitigate these critical limitations, this study investigates a sophisticated paradigm shift through the integration of Deep Learning (DL) architectures for autonomous feature extraction.

By leveraging state-of-the-art neural networks, including Convolutional Neural Networks (CNN), U-Net, and the YOLO series, this framework facilitates the automated suppression of background noise and the high-precision identification of hyperbolic reflection signatures and moisture-induced signal anomalies. These DL models circumvent the need for manual expert intervention by autonomously learning multi-scale signal features that characterize buried assets and incipient voids.

However, the practical implementation of DL is often constrained by the scarcity of comprehensive, labelled field data, which frequently results in model overfitting and poor generalization. To address this data deficit, this study adopts a robust hybrid dataset strategy. This involves the systematic augmentation of empirical field profiles with high-fidelity synthetic data generated through Finite-Difference Time-Domain (FDTD) numerical modelling. By simulating thousands of virtual infrastructure scenarios, incorporating diverse dielectric soil compositions, varying utility geometries, and multi-scale void conditions, the model's robustness and predictive generalization are significantly fortified.

The findings underscore that the synergy of hybrid datasets and DL enables the proactive identification of subsurface assets and structural instabilities before the physical failure of road pavement occurs. This technological integration transforms the asset maintenance landscape for public works departments and city councils from reactive, crisis-based monitoring to a proactive, predictive management framework. Ultimately, this intelligent GPR interpretation system offers a high-resolution solution to optimize municipal financial resources, fortify urban infrastructural resilience, and comprehensively safeguard national public safety against subsurface geological hazards.

TECHNICAL SESSION SPEAKERS

TECHNICAL SESSION 2



Dr Fickrie Muhammad

The Future of Automated Underwater
Navigation for Autonomous Survey
Vehicles

Growing demand for sustainable maritime development and resilient Blue Economy initiatives has increased the need for advanced underwater survey technologies capable of operating across large areas and in GNSS-denied environments. As maritime activity expands throughout the Indo-Pacific, Autonomous Survey Vehicles (ASVs), Autonomous Underwater Vehicles (AUVs), and Remotely Operated Vehicles (ROVs) are becoming essential platforms for hydrographic surveying, environmental monitoring, subsea infrastructure inspection, and maritime safety. This presentation examines the future of automated underwater navigation and how multisensor integration and intelligent autonomy are transforming marine operations.

Underwater navigation has traditionally relied on acoustic positioning systems such as Long Baseline (LBL), Short Baseline (SBL), and Ultra-Short Baseline (USBL). Although these systems remain the backbone of subsea navigation, their performance can be affected by environmental instability, signal attenuation, fixed-infrastructure requirements, and range limitations. Next-generation systems increasingly use Aided Inertial Navigation Systems (AINS), integrating acoustic positioning, Doppler Velocity Logs, optical imaging, and environmental sensors. This fusion improves positioning resilience, navigation continuity, and operational reliability during complex missions.

Advances in Simultaneous Localization and Mapping, machine learning, and autonomous perception further support intelligent underwater navigation. Deep-learning architectures, including Convolutional Neural Networks and U-Net models, enable automated detection of subsea hazards and seabed features, supporting adaptive mission planning and decision-making with less human intervention. Digital Twin environments also provide safe, scalable platforms for mission rehearsal, interoperability testing, and regional capacity development.

Beyond technical innovation, automated underwater navigation supports maritime governance, environmental stewardship, and scientific cooperation. Integrated coastal and underwater mapping can generate seamless shore-to-sea geospatial intelligence for navigational safety, disaster mitigation, coastal resilience, and sustainable resource management. In strategic corridors such as the Indonesian Archipelagic Sea Lanes, these technologies contribute to Safety of Life at Sea objectives while strengthening regional cooperation through shared knowledge, interoperable survey capabilities, and collaborative research.

By combining multisensor autonomy, intelligent mapping, and research partnerships, autonomous survey vehicles are becoming strategic instruments for maritime resilience, environmental sustainability, and regional cooperation across the Indo-Pacific.

TECHNICAL SESSION 2



Amin Athari Wan Mahadi

Mapping Value: Closing the Geospatial Last Mile in Professional Property Valuation

In a High Court in London in 2023, a RICS valuer had to reconstruct and defend every decision made in a property valuation produced five years earlier. Which comparables were selected. Why. What was verified. What was rejected. The case — Hope Capital v Alexander Reece Thomson — centred not just on whether the number was wrong, but on whether the process that produced it could be demonstrated to be sound. This is the consequence of a geospatial infrastructure gap that exists not only in the United Kingdom, but across every jurisdiction where professional property valuation is regulated. Malaysia is no exception.

Under the Malaysian Valuation Standards administered by BOVAEA/LPPEH, valuers are required to document comparable evidence for every property valuation exceeding RM200,000 in capital value — including the identification of each comparable by Lot number or Title Number, the date of transaction, and the consideration paid. JPPH maintains authoritative transaction records across the country. Geospatial data infrastructure across the ASEAN region is advancing rapidly — cadastral systems, national address databases, property transaction registers. And yet the professional who must produce a defensible, evidence-led valuation today does so across disconnected data sources, with verification practices that leave no structured trace, and documentation that lives in Word documents and email chains.

This presentation argues that the geospatial industry has solved the network core — data collection, processing, analysis — but has not built the final connection between that capability and the regulated professional who must make a defensible decision under personal liability. That gap has three specific technical dimensions: fragmentation across disconnected sources with no common key at the point of use; the absence of verification provenance infrastructure to capture the human checks that sit on top of the data layer; and the lack of audit trail architecture to document professional reasoning in a form that meets mandatory evidentiary standards. We are building this infrastructure in the United Kingdom — where the Unique Property Reference Number, managed across 42.8 million addresses by GeoPlace, provides the common identifier that makes data linkage possible. Original linkage analysis from our own live property data ingest demonstrates that even where identifier infrastructure exists, implementation is partial and silent failures are common. Address match failures, EPC crosswalk gaps, and geospatial coordinate incompleteness create systematic risk for professionals who assume data completeness they do not have.

The Southeast Asian context makes this argument urgent. RICS operates across Malaysia, Singapore, and the wider ASEAN region. The Malaysian Institute of Surveyors, BOVAEA, and JPPH provide the regulatory architecture. The geospatial data infrastructure is advancing. The window to build the professional evidence layer at the same time as the data layer — rather than a decade after it, as happened in the UK — is open now. This presentation concludes with a working demonstration of an evidence infrastructure system designed to close the last mile — aggregating comparable evidence, capturing verification provenance, and generating structured audit trails aligned to professional standards. The system was built for the UK market. The problem it solves is not unique to the UK. Keywords: geospatial last mile, property valuation evidence, comparable evidence infrastructure, BOVAEA, Malaysian Valuation Standards, UPRN, audit trail, professional indemnity, ASEAN geospatial

TECHNICAL SESSION 2



Lisa Kao

Accuracy and Efficiency Analysis of Image Control Patches in Aerial Triangulation: A Case Study of Shuishang Township, Chiayi County

As aerial photogrammetry technology continues to advance, Aerial Triangulation (AT) has become a crucial technique for acquiring high-precision geospatial information. Traditional AT operations rely heavily on a large number of Ground Control Points (GCPs) to ensure the accuracy of exterior orientation (EO) parameter determination. However, the field measurement of these control points is costly and time-consuming, which limits the efficiency and economic benefits of surveying projects.

This study utilizes the Shuishang Township area in Chiayi County as the test field to systematically compare the impact of two different sources of ground control data on the AT adjustment results: (1) traditional GCPs measured by e-GNSS field survey, and (2) the use of existing Image Control Patches combined with Position and Orientation System (POS) exterior orientation elements provided by the Aerial Survey and Remote Sensing Branch, Forestry and Nature Conservation Agency, Ministry of Agriculture (ASRSB). A standardized processing workflow is established through the application of Control Patches, which includes key steps such as automated classification and selection of feature points (Tie Points, TPs, such as building corners, road markings, and natural points), image pre-processing, automated feature matching, AT adjustment, and EO determination.

To ensure the quality of the results, a comprehensive accuracy validation and quality control mechanism is implemented, using quantitative analysis by comparing the field-measured coordinates of check points with the coordinates derived from the AT adjustment. In addition to accuracy assessment, this research further develops a sustainability and cost-benefit analysis model to quantify the impact of different control data sources on human resource allocation, training costs, and operational productivity.

The results indicate that the alternative approach, which utilizes existing Image Control Patches combined with POS parameters, can significantly reduce fieldwork costs by approximately 50% to 75% while maintaining comparable measurement accuracy, and can improve overall operational efficiency by over 25%. Validation through multi-scenario application tests confirms the good applicability of this alternative solution in flat to moderately undulating terrain.

However, in areas with severe elevation differences, the use of field-measured control points is still recommended to strengthen local geometric constraints. Based on the research findings, this paper proposes recommendations for technical standardization and operational workflow optimization, aiming to provide the surveying industry with a new AT operation model that balances both precision and efficiency. This research outcome holds significant practical value for enhancing the efficiency of aerial surveying in Taiwan, reducing measurement costs, and promoting the modernization of surveying and mapping technology.

TECHNICAL SESSION 2



Amri Chatib

The Evolving Role of Surveyors in Carbon Capture and Storage (CCS): From Mapping the Earth to Enabling the Energy Transition

The global commitment to achieve Net Zero Emissions has accelerated the development of Carbon Capture and Storage (CCS) as one of the most promising technologies for reducing carbon emissions from hard-to-abate industries. While engineering and geological aspects of CCS have been widely discussed, the strategic role of surveyors and geospatial professionals remains less recognized. In reality, every successful CCS project begins with reliable geospatial information, from site screening and infrastructure planning to long-term environmental monitoring.

This paper discusses how the surveying profession is evolving beyond its traditional role of mapping and measurement to become a critical contributor to sustainable infrastructure and climate solutions. It demonstrates that modern surveyors—including professionals in topographic surveying, hydrographic surveying, geodesy, GIS, LiDAR, photogrammetry, remote sensing, geophysics, and unmanned systems—play essential roles throughout the entire CCS project lifecycle.

The presentation also highlights how emerging digital technologies such as Artificial Intelligence (AI), Digital Twins, cloud-based geospatial platforms, autonomous surveying systems, and satellite monitoring are transforming geospatial services into strategic decision-support tools. Finally, it discusses why Southeast Asia is uniquely positioned to become a global CCS hub and how the region's geospatial community can contribute significantly to this transition.

***Keywords:** Carbon Capture and Storage, Surveyor, Geospatial Intelligence, Hydrographic Survey, GIS, LiDAR, Sustainability, Southeast Asia.

TECHNICAL SESSION SPEAKERS

TECHNICAL SESSION 3

Innovations in Surveying Technologies: From Conventional Methods to Smart Solutions

Moderator: Mario Jose O Silvino, AFLAG Vice President



Masaru Kaidzu

Realization of Elevation System Through
GEONET

On 1st April 2025, Geospatial Information Authority, Japan (GSI) changed their way of realization of elevation system from levelling to combination of Geoid model and Ellipsoidal Height continuously monitored at GNSS CORS stations (GEONET). This change allowed us apply semi-dynamic treatment of elevation. As a result, Japanese coordinate system is now fully monitored as 4dimensional manner through GEONET. It enhanced internal consistency through epoch reduction. As they did not touch Survey Act itself, theoretically the system became a little complicated. The author will show how users cope with this change.

TECHNICAL SESSION 3



Simon Ironside

A New Approach to the Classification of Marine Plastic Waste Based on High-Resolution UAV Imagery Combined with Deep Learning Algorithms

Authors Gordana Jakovljević (Bosnia and Herzegovina) and Simon Ironside (New Zealand) Marine plastic pollution has reached a critical level, representing one of the worst environmental problems of our time. It is recognized as irreversible and globally ubiquitous, affecting marine ecosystems across the world. The 2030 Agenda for Sustainable Development addresses this challenge under Sustainable Development Goal 14 through Target 14.1, which calls for prevention and significant reduction of all forms of marine pollution, particularly plastic litter and other land-based pollutants.

The distribution and composition of marine plastic debris, which vary considerably by season and location, can be classified according to several physicochemical factors including size, origin, source or material composition. While classification based on litter size has been extensively documented, no universally accepted framework yet exists for categorising different types of marine debris by other parameters.

Remote sensing offers great potential to standardise and scale up the previous methodologies for monitoring the spatial distribution and composition of marine plastic debris. Although several studies have successfully demonstrated the application of the remote sensing data for detecting and mapping marine plastic, the field remains in an early development phase, requiring further refinement and validation.

In this paper, we propose a marine debris classification strategy according to composite material and develop a methodology for their monitoring based on high-resolution UAV imagery combined with deep learning algorithms. Particular attention is given to island nations, which are especially vulnerable due to their disproportionate exposure to marine litter, limited waste management infrastructure and strong economic dependence on tourism and fisheries industries.

TECHNICAL SESSION 3



Wei-Chia Hung

Smart Integration of Multi-Sensor Geospatial Technologies for Land Subsidence Monitoring: A Case Study from Chinese Taipei

Land subsidence induced by long-term groundwater overexploitation has become a critical challenge in many alluvial and coastal regions, threatening infrastructure stability and sustainable land management. In Taiwan, the Choshui River Alluvial Fan (CRAF) is one of the most severely affected areas, where continuous deformation poses significant risks to major infrastructures, including the Taiwan High Speed Rail (THSR).

To address this issue, an integrated multi-sensor geospatial monitoring system has been implemented by combining Continuous GNSS (CORS), multi-temporal InSAR (MT-InSAR), precise leveling networks, multi-layer compaction monitoring wells, automatic record extensometers and groundwater observation systems. This system enables high-resolution, multi-scale monitoring of land deformation and supports a comprehensive understanding of subsidence processes.

Furthermore, Internet of Things (IoT) technologies and big data analytics are incorporated to facilitate real-time data acquisition, centralized data management, and efficient processing of multi-source geospatial information. Beyond monitoring, recent developments focus on integrating artificial intelligence (AI) and machine learning techniques with InSAR time-series data to identify deformation patterns and improve predictive capabilities.

By leveraging AI-driven analysis, the system aims to enhance early warning potential and support proactive decision-making for infrastructure protection and land management. This study highlights the integration of advanced geospatial technologies and AI into a smart monitoring framework, demonstrating its effectiveness in addressing complex subsidence problems. The approach provides a scalable and transferable solution for regions facing similar challenges.

TECHNICAL SESSION SPEAKERS

TECHNICAL SESSION 4



Estrellita Bordallo

Advancing Gender Equality Through
Inclusive Geospatial Practice in
Southeast Asia

In the pursuit of sustainable and resilient development, gender equality is no longer optional—it is essential. Within geospatial science and geodetic engineering, where decisions shape land, communities, and futures, the inclusion of women strengthens both technical outcomes and societal impact.

Anchored on the SEASC 2026 theme, “Smart Geospatial Solutions for a Sustainable and Resilient Southeast Asia Developments,” this presentation explores how gender-inclusive practice transforms geospatial work into a force for equity and resilience. Drawing from personal field and leadership experience in cadastral surveys, subdivision development, and infrastructure mapping, this presentation highlights how women engineers contribute to securing land tenure, enabling disaster risk reduction, and supporting community-driven development.

Beyond data and technology lies a deeper challenge: dismantling barriers that have long limited women's participation in engineering. This presentation shares initiatives in mentorship, institutional collaboration, and professional leadership that create pathways for inclusion and growth. It emphasizes the value of representation, not just in numbers, but in influence, decision-making, and impact.

Aligned with the United Nations Sustainable Development Goals and emerging directions in GeoAI and multi-sector collaboration, this presentation argues that diversity is not a supplement to innovation—it is its foundation. Inclusive geospatial systems lead to more equitable land distribution, more responsive cities, and more resilient communities. Because when women are empowered in geospatial engineering, development becomes not only smarter—but truly inclusive, sustainable, and enduring.

TECHNICAL SESSION 4



Gavin Kao

Correcting the Overpass in Orthophoto Using 3D Roads: Taking Shuishang Township, Chiayi as an Example

This study aims to investigate the effective integration of digital 3D road model data to mitigate geometric deformations and distortions commonly observed in man-made structures, such as rivercrossing bridges and elevated roads, during traditional orthophoto generation. Traditional orthophoto production predominantly relies on Digital Elevation Models (DEMs) for terrain correction.

However, since DEMs typically filter out the elevation information of manmade structures, the resulting orthophotos often exhibit artifacts such as sinking, displacement, or distortion in these specific areas. While stereoplottting can be employed to supplement the elevation data of man-made structures, this approach is operationally complex and demands significant labor and time resources.

In response to the recent release of open datasets—specifically 3D road models—by the National Land Surveying and Mapping Center (NLSC) and local governments, this study proposes integrating these digital resources with existing DEMs. The objective is to construct a composite terrain model that accurately reflects the actual elevations of man-made structures, thereby facilitating the production of improved orthophotos. Using a designated experimental area, the study generates both traditional and improved orthophotos for comparative analysis.

Through indicators such as geometric accuracy and image quality, the research evaluates the feasibility and effectiveness of this method in terms of production costs, labor dependency, and overall output quality.

TECHNICAL SESSION 4



Dr Jian GUO (Orianna)

A GIS-Based Housing Estate Enquiry Platform for
Hong Kong SAR China

The Hong Kong housing market is distinctly characterized by a dual track system comprising both public and private sectors. To date, however, no unified, publicly accessible geospatial platform exists that covers both housing stock categories on a single interface. The Housing Authority's current "Estate Locator" website offers location and administrative information for public rental housing (PRH) and Home Ownership Scheme (HOS) estates, yet it suffers from notable data deficiencies—most critically, the complete absence of estimated population figures for HOS estates. Meanwhile, private residential estates, which house approximately 54% of Hong Kong's population, remain entirely outside any integrated housing information tool available to the general public.

This study presents a GIS based Housing Estate Enquiry platform (HEEP), developed on the ArcGIS Pro platform, which consolidates public and private housing estate data into a unified, openly quarriable spatial database. The system supports retrieval of five core attributes for each estate: geographic location and map visualisation (including three dimensional display), number of residential units, estimated population, construction year, and building height. Unlike existing government platforms and commercial property websites (e.g., Centaline Property and Midland Realty) that only allow enquiry for individual estates, our system additionally embeds statistical analysis functions, enabling summarised distributions and cross tabulations at both district and estate type levels—capabilities entirely absent from current alternatives.

To further enhance usability, we developed a dedicated ArcGIS Pro Add In that encapsulates the entire statistical workflow into standalone toolbar buttons, allowing users to execute complete analyses with a single click, thereby obviating tedious manual operations within the standard interface. The data integration methodology constitutes a principal contribution of this study.

By systematically cross referencing official government data with commercial property records, we effectively bridge the data voids present in existing public information channels. Village houses, owing to their highly fragmented ownership structures, are not included as individual records in the current version; they are instead represented merely by the spatial distribution of rural settlements across the territory. Keywords: GIS; housing estate enquiry; statistical analysis; Add In development; Hong Kong urban spatial database

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RD-Palmer Technology (M) Sdn Bhd is a Malaysian specialist in underground utility detection, inspection and water network solutions, serving the industry since 2003. The company provides survey-grade pipe and cable locators, Ground Penetrating Radar (GPR), pipeline inspection systems, leak detection technologies and related solutions for construction, infrastructure, utilities and surveying applications. Beyond equipment supply, RD-Palmer offers professional training, calibration, repair, rental and local technical support. With advanced technologies from established international brands, RD-Palmer helps surveyors and industry professionals accurately locate, map and assess underground assets for safer and more reliable projects.

RD-Palmer

Underground Utilities Solution

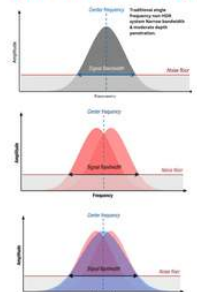


MALAI Easy Locator Core

The world's first intelligent Ground penetrating radar (GPR) solution

- **Real-Time Interpretation with MALAI AI:** Features intelligent real-time interpretation support through MALAI AI, enhancing efficiency and accuracy during surveys.
- **Superior Data Quality:** Delivers the best data quality in the market, ensuring precise utility locating and mapping.
- **Wireless Data Collection:** Enables seamless data acquisition using mobile devices, improving flexibility and user experience.
- **Cloud Integration with MALAI Vision:** Offers cloud storage, post-processing, and on-site reporting capabilities via MALAI Vision, streamlining workflows and data management.
- **Fastest Workflow in the market:** Combines advanced features to reduce time from data collection to result delivery.
- **User-Friendly Design:** Lightweight and flexible, designed for ease of use, making it suitable for both beginners and experts in utility locating.

What is HDR Technology



Advantages compared to conventional GPR technology

- ✓ Significantly faster data acquisition rates
- ✓ Greater signal-to-noise ratio
- ✓ Increase bandwidth
- ✓ Unprecedented dynamic range and resolution
- ✓ Higher number of significant bits
- ✓ Greater depth penetration
- ✓ Better detection capabilities

Smart Survey Solutions



Terrestrial LIDAR UAV LIDAR Mapping & GIS Roadworks Solutions Mobile Mapping

- Geospatial Solutions
- Civil Construction Solutions
- Software Development & Custom Applications
- LiDAR Survey
- Training & Consultancy
- Technical Support



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AllTerra (M) Sdn Bhd

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Founded in Malaysia in 2010, GPS Lands (M) Sdn Bhd is a leading geospatial technology solutions provider specializing in surveying, mapping, GIS, LiDAR, remote sensing, and engineering applications. The company delivers advanced hardware, software, consultancy, training, and technical support to government agencies, utilities, infrastructure developers, and private organizations. GPS Lands is the authorized distributor for RIEGL Laser Measurement Systems and a channel partner for Bentley Systems in Malaysia, and more. As the parent company of AllTerra (M) Sdn Bhd, it continuously expands its infrastructure technology portfolio to deliver reliable, high-precision solutions across ASEAN.

Mission:

To empower organizations with innovative geospatial technologies and expert solutions that enhance decision-making, operational efficiency, and digital transformation.

Goal:

To become a "Choice Partner" to support all our valued customers to meet with the dynamic future.



GLOBAL-TRAK SYSTEMS SDN BHD

Global-trak Systems Sdn Bhd is a leading Malaysian provider of advanced geospatial technologies, delivering integrated solutions for surveying, mapping, positioning, and spatial data intelligence. With decades of industry experience, we offer comprehensive capabilities spanning GNSS, UAV mapping, LiDAR, mobile mapping, hydrographic surveying, GIS, and geospatial software. Our portfolio is supported by professional consultation, certified training, technical support, and value-added services, enabling clients to enhance operational efficiency and informed decision-making. Committed to innovation, quality, and customer excellence, Global-trak partners with internationally recognised technology leaders to empower digital transformation and sustainable infrastructure development across Malaysia and the Southeast Asian region.



SMARTER DATA. BETTER DECISIONS. STRONGER FUTURES.

Global-trak Systems Sdn Bhd delivers innovative geospatial solutions and trusted support to help organisations capture, analyze, and manage spatial data with confidence and accuracy.

- ACCURATE DATA**
High-precision solutions you can rely on.
- SMART SOLUTIONS**
Integrating advanced technologies for better decisions.
- TRUSTED PARTNER**
Local expertise, global technology and total support.



OUR SOLUTIONS



OUR TECHNOLOGY PARTNERS





Syarikat Abdul Wahab is a professional land surveying firm with a long-standing family heritage in the surveying profession. The company is currently led by LSr Abdul Razak bin Abdul Rahim, the third generation of the family to continue and uphold the firm's legacy. With extensive experience and professional expertise, the company provides a range of land surveying services, including cadastral, topographical, engineering, and land development surveys. Syarikat Abdul Wahab is committed to delivering accurate, reliable, and professional surveying solutions while maintaining the highest standards of integrity, quality, and technical competency in serving clients across Malaysia.

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ACKNOWLEDGEMENTS

The SEASC 2026 Local Organising Committee wishes to express its deepest gratitude to all who have contributed to making the 18th South East Asia Survey Congress a success.

We are deeply honoured by the gracious presence of Yang Berhormat Tuan Syed Ibrahim Syed Noh, Deputy Minister of Natural Resources and Environmental Sustainability, who officiated SEASC 2026. To the President and Council of AFLAG, thank you for your leadership and for entrusting Malaysia and PEJUTA as the proud host organiser of this congress. To our distinguished keynote speakers, plenary speakers, technical session speakers, guest speaker and moderators, thank you for your invaluable contributions and expertise.

We extend our heartfelt appreciation to all our sponsors and exhibitors across all tiers for their generous support and partnership that made SEASC 2026 possible. To our Official Venue Partner, Shangri-La Kuala Lumpur, thank you for your world-class hospitality. To Lembaga Jurukur Tanah Malaysia, thank you for your valued endorsement. To the management of Merdeka 118, thank you for welcoming our delegates for the Technical Tour Visit.

To every member of the SEASC 2026 Local Organising Committee, this achievement belongs to all of you. And to all our delegates, thank you for making this congress truly meaningful. Together we advance geospatial excellence.

The SEASC 2026 Local Organising Committee
Association of Authorised Land Surveyors Malaysia (PEJUTA)
Co-organised by the ASEAN Federation of Land Surveying and Geomatics (AFLAG)
Kuala Lumpur, Malaysia | August 2026



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