



AQSA INTERNATIONAL CONGRESS 2023

Envisioning Sustainability and Digitalisation in ASEAN Construction Industry

Sibu, Sarawak, Malaysia
16 -17 May 2023



In collaboration with



10th

ANNIVERSARY

2013 - 2023



UTS



About UTS

University of Technology Sarawak (UTS) is the only university which is wholly owned by Sarawak State government. It was set up in 2013 under the Private Higher Education Institution Act 1996. It is situated on a 90 acres piece of land in Sibuan, one of the main gateways into Sarawak Corridor of Renewable Energy (SCORE).

The UTS campus is a state-of-the-art structure that combines the organic artistry of the human imagination with the transcendent qualities of technological advancement.

Currently recognized as the only university campus in the world awarded with the prestigious Platinum Rating in the Green Building Index (GBI), the stunning architecture of UTS fundamentally promotes sustainability and efficient energy utilization. Visitors would definitely find themselves charmed by the serenity of the lush rainforest canopies surrounding the campus grounds.

The university is also equipped with extensive tangible infrastructure for research & development such as fully equipped laboratories, ICT equipment and other related facilities for effective research and development initiatives.

About AQSA

ASEAN Quantity Surveyors Association also known as AQSA was established in December 2020. Its aim is to extend cooperation among ASEAN countries through Quantity Surveying services mobility, fostering close working relationship, establishing base line standard for practices and education development.

AQSA membership currently comprised professional bodies of quantity surveyors in the ASEAN countries. The objectives of this institutions are:

- To promote the mobility of the Quantity Surveying profession in ASEAN countries;
- To foster closer relations, cooperation and mutual understanding amongst Quantity Surveyors in ASEAN countries;
- To establish and develop an ASEAN baseline standard for the Quantity Surveying profession and mutual recognition agreement with the objective of facilitating the mobility of the Quantity Surveyors within the ASEAN countries; and
- To promote adoption of best practices on standards of Quantity Surveying education, professional practices and qualifications



AQSA International Congress 2023

The ASEAN Quantity Surveyors Association International Congress 2023 is jointly organized by ASEAN Quantity Surveyors Association (AQSA) and School of Built Environment, University of Technology Sarawak. This congress will be held face-to-face in Sibul, Sarawak, Malaysia.

The congress features mega construction projects in ASEAN countries with a special focus on projects in countries located on Borneo Island which include Indonesia, Malaysia and Brunei.

This congress will invite well known speakers to discuss the sustainability constraints of these mega projects and collaboration between countries in the era of digitalization.

Furthermore, a series of undergraduate students activities will be conducted to provide students the opportunities for networking with those from other institutions and to provide an outreach platform for employers to scout for potential employees.

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Welcoming Remarks

Greetings to everyone. It is a great privilege for me to welcome all of you to this AQSA International Congress 2023.

This congress aims to provide a platform for AQSA member countries to collaborate and cooperate to promote the quantity surveyor (QS) profession and its mobility in the ASEAN region

AQSA encourages all ASEAN countries to regulate and register the QS profession in their countries and to upgrade QS knowledge and skills to the international standard. AQSA was formed in 2020 with the five founding member countries of Malaysia, Singapore, Brunei, Indonesia and Philippine.

Among the initial activities that AQSA would like to promote are collaboration between universities in ASEAN to offer QS programmes, collaboration between QS consultants to form ASEAN multinational companies to undertake projects across ASEAN and beyond, mobility of individual QS to work across ASEAN countries, and the formation of QS associations in three other countries that are still not yet members of AQSA – Cambodia, Vietnam and Laos.

I am proud to welcome the two new AQSA members, Myanmar and Thailand, to our association. We hope more countries will form a QS association in their countries and join our organisation soon. We are already in contact with the ASEAN Federation of Engineering Organisations (AFEO) in Cambodia, Vietnam and Laos to assist them in forming national QS associations.

I hope this AQSA International Congress 2023 will benefit everyone as well as to promote the QS profession for greater collaboration and cooperation between member countries.

I would like to thank the UTS and the AQSA-UTS organising committee members, as well as the UTS staff for working so hard to make this event a success.

I would also like to extend my gratitude and appreciation to the main sponsor, Business Event Sarawak Convention (BES), and all of the other sponsors for this event.

Best wishes to all participants and hope you will have an enjoyable and knowledge-filled congress!

Sincerely,

Adjunct Prof. Dato' Sr Aziz bin Abdullah

President

ASEAN Quantity Surveyors Association (AQSA)



Welcoming Note

As chair of the organising committee, it is my pleasure to welcome you to the AQSA International Congress 2023. I am thrilled to see the overwhelming participation of nearly 700 delegates, comprising students, academics, colleagues, friends, practitioners and other professionals who are meeting for the first time in Sibul, Sarawak.

We have gathered here in our common concern for the built environment and construction projects in the ASEAN region. Most of us have envisioned the unprecedented challenge of environmental sustainability in the near future, and the rapidly changing nature of the construction industry in this era of digitalisation. These challenges have been succinctly described in the theme of this Congress and will be addressed by our prominent speakers and panellists in the plenary sessions, parallel sessions and panel discussions.

UTS, as a higher learning institution, together with AQSA are committed to providing an active learning experience for our students. Through poster presentation and team building activities, we are promoting student engagement in current construction issues with practitioners, as well as fostering interaction among the students themselves.

I believe this event will stimulate a cross-profession collaboration between academics and practitioners that will shed light on – and prompt actionable solutions to – the threats and challenges of environmental sustainability and construction digitalisation. I also believe that, together, we can build the future through our knowledge sharing, research collaborations and developing innovative solutions, among other activities, if we interact and disseminate ideas.

Please take this opportunity to explore and enjoy the town of Sibul with your friends – the local delicacies such as Kampua, Mee Sua, Kompia, Ayam Pansuh, Midin, Umai, and Tebaloi; the sightseeing destinations such Central Market, Tua Pek Kong, Sibul Heritage Centre, Bawang Assan Long Houses, Bukit Aup Jubilee Park and so many more. Sibul is the largest Foochow speaking community in Malaysia, and it is a town with a unique mix of Malay, Iban, Chinese, Melanau and other indigenous communities, which makes this place culturally rich and vibrant.

Finally, thank you for your participation, and I would like to extend my heartfelt thanks to all of the sponsors, speakers and those who have contributed directly or indirectly to the realisation of this Congress.

Sincerely,

Sr Dr Kan Fock Kui

Organising Chair

AQSA International Congress 2023



The Guest of Honour



YB Datuk Amar Douglas Uggah Embas
Deputy Premier of Sarawak

YB Datuk Amar Douglas Uggah Embas is the Deputy Premier of Sarawak, Second Minister for Finance and New Economy and Minister for Infrastructure and Port Development. Uggah was appointed to the Cabinet after the 2008 Malaysian general election as Minister of Natural Resources and Environment. Before that, he served in non-Cabinet positions as Deputy Minister of Transport and Parliamentary Secretary to the Prime Minister. He first started competing in elections in 1986, representing the UN and has served more than 30 years as a Member of Parliament.

Distinguished Guest



Professor Datuk Dr Khairuddin Ab. Hamid
Vice Chancellor of University of Technology Sarawak (UTS)

Professor Datuk Dr Khairuddin is the Vice Chancellor of University of Technology Sarawak (UTS), Sibul, Sarawak, effective from 1 February 2018. Prior to that, he served as Vice Chancellor for Universiti Malaysia Sarawak (UNIMAS) from April 2008 until March 2013 and then as Vice Chancellor for University Malaysia of Computer Science and Engineering (UniMy), based in Putrajaya, from April 2014 until January 2018. He holds a doctorate in electronic systems engineering from the University of Essex, UK; a master of science degree (electrical engineering) from University of Hawaii at Manoa, USA; and a bachelor's in electrical engineering from Universiti Teknologi Malaysia (UTM). He is also member of the Board of Trustees for Yayasan FELDA (FELDA Foundation) and Board of Directors for the Centre of Technical Excellence Sarawak (CENTEXS).

Congress at a Glance

15 May 2023

Monday

3.30 pm – 5.30 pm

AQSA General Assembly

Venue: Senate Room, University of Technology Sarawak (UTS)

General Assembly

MoU signing ceremony

16 May 2023

Tuesday

Conference Day 1

8.15 am – 8.45 am

Registration

8.45 am – 9.00 am

Briefing by Emcee

Plenary Session 1

Venue: Kingwood Ballroom, Level 6

9.00 am – 9.40 am

Keynote Speaker 1:

Sr Mohd Zaid Zakaria

Deputy Chief Executive II of Construction Industry Development Board (CIDB),
Malaysia

9.40 am – 10.20 am

Keynote Speaker 2:

Dr Ir Danis Hidayat Sumadilaga

President of Persatuan Insinyur Indonesia (PII), Indonesia

10.20 am – 11.00 am

Keynote Speaker 3:

Ir Prof Dr Norlida bt Bunyamin

President of The Institution of Engineers (IEM), Malaysia

11:00 am – 11:15 am

Short Break

11.15 am – 12.40 pm

Opening Ceremony

The Guest of Honour:

Yang Berhormat Datuk Amar Douglas Uggah Embas

Deputy Premier of Sarawak

Second Minister for Finance and New Economy

Minister for Infrastructure and Port Development

12:40 pm – 2:00 pm

Lunch

Venue: Ringwood Ballroom, Level 5

Congress at a Glance

16 May 2023

Tuesday

Conference Day 1

Parallel Session 1

Session Chair 1:

Ir. Dr. Md. Zarulazam b. Md. Eusofe

Venue 1: Kingwood Hall, Ground Level

Parallel Session 2

Session Chair 2:

Sr Lim Kok Sang

Venue 2: Regalia Ballroom, Riverside

Sub-theme 1:

Sustainability Considerations of Borneo Development Projects In ASEAN Region

Speaker 1:

Ts Norman Jan

Principal Assistant Director for Corporate Planning and Information Management, Sarawak Public Works Department, Malaysia

Sub-theme 2:

Development and Prospects Of Infrastructure & Civil Engineering Works In ASEAN Region

Speaker 1:

Dr Liew Kian Heng

Principal Consultant, Liew Strategies and Liew Consultants, Singapore

2.00 pm – 2.30 pm

2.30 pm – 3.00 pm

3.00 pm – 3.40 pm

3.40 pm – 4.10 pm

4.10 pm – 4.40 pm

4.40 pm – 5.00 pm

5.00 pm

7.30 pm – 10.00 pm

Speaker 2:

Ts Amirul Izzat

RIB CostX Consultant of RIB Malaysia Sdn Bhd, Malaysia

Speaker 2:

Ir Habibie Razak

Executive Director of Persatuan Insinyur Indonesia (PII), Indonesia

Tea Break & Poster Presentation

Speaker 3:

Sr Ambrose Shim Fui Sen

Pertubuhan Ukur Jurutera dan Arkitek Brunei (PUJA)

Speaker 3:

Assoc. Prof. Dr Susy Fatena Rostiyanti

Ikatan Quantity Surveyor Indonesia (IQSI), Indonesia

Speaker 4:

Adjunct Assoc. Prof. Sibarani Sofian

Founder & Managing Director of Urban+, Indonesia

Speaker 4:

Ms Le Le Win

Joint Secretary, Quantity Surveying Chapter of Fed. MES, Myanmar

Q & A

End of Day 1

Q & A

Gala Dinner

Venue: Ringwood Ballroom, Level 5

Congress at a Glance

17 May 2023

Wednesday

Conference Day 2

Venue: Kingwood Hall, Ground Level

8.30 am – 9.00 am Registration

Plenary Session 2

Session Chair: Sr Saravanan Subramaniam

Sub-theme 3:

Digitalisation And Prospects Of Cost And Contract Management In ASEAN Region

9.00 am – 9.30 am Speaker 1:

Sr Allen Leslie Chin

Quantity Surveyor of Contract & Quantity Surveying Branch, Pan Borneo Highway Sector, Public Works Department of Sabah, Malaysia

9.30 am – 10.00 am Speaker 2:

Ms Jacqueline Huan Chie Sze

Senior Cost Manager, Turner & Townsend Pte Limited

Honorary Secretary of SISV QS Division, Singapore

10.00 am – 10.30 am **Tea Break & Networking**

10.30 am – 11.00 am Speaker 3:

Mr Seth Weng Wai Leong

Managing Director of Mentabuild, Thailand

Past Chairman for the RICS ASEAN QS & Construction Professional Group Board

11.00 am – 11.30 am Speaker 4:

Mr Anthony A. Mariano

Executive Vice-President, Triumph Development Corporation, Philippines

11.30 am – 12.30 pm Q & A

12.30 pm – 2.00 pm Lunch break

Panel Discussion

Session Chair: Assoc. Prof Sr Hasmawati Harun

Sub-theme 4:

Women Leadership in Construction Organisations Across ASEAN Region

2.00 pm – 4.00 pm Panel Speakers:

1. Sr Dainna Baharuddin, President of Royal Institution of Surveyors Malaysia
2. Sr Dayang Hajah Hajjah bt. Awang Haji Salleh, Vice President & Chair of Surveying Division, Pertubuhan Ukur, Jurutera dan Arkitek Brunei
3. Assoc. Prof. Dr Susy Fatena Rostiyanti, Ikatan Quantity Surveyor Indonesia
4. Ms Clarita San Diego-Ladica, Philippine Institute of Certified Quantity Surveyors
5. Ms Claire Zhang Pei, Singapore Institute of Surveyors & Valuers

4.00 pm – 4.30 pm Q & A

4.30 pm – 5.00 pm Closing Ceremony

5.00 pm – 5.30 pm **Tea break & networking**

Congress at a Glance

17 May 2023

Wednesday

Student Carnival

Venue: University of Technology Sarawak (UTS)

- | | |
|---------------------|--|
| 8.00 am – 8.30 am | The arrival and registration |
| 8.30 am – 9.00 am | Ice-breaking and grouping |
| 9.00 am – 11.00 am | Team Building Activity 1 |
| 11.00 am – 12.30 pm | Lunch break |
| 12.30 pm – 3.30 pm | Team Building Activity 1 |
| 3.30 pm – 4.00 pm | Tea break |
| 4.00 pm – 4.30 pm | Award giving ceremony |
| 4.30 pm – 5.00 pm | Closing ceremony and photography session |



Plenary Session 1

Theme: Envisioning Sustainability and Digitalisation in ASEAN Construction Industry

Keynote 1

Digital Construction and Sustainable Development: Opportunities and Challenges for the Construction Industry

The construction industry is at a crossroads. On one hand, it faces significant challenges such as project delays, cost overruns and declining productivity, while on the other hand, there are tremendous opportunities for improvement through the adoption of digital technologies and sustainable practices. Envisioning digital transformation and sustainability will certainly not happen overnight. The necessary investments must be made by both the private and the public sectors towards technology adoption. As a nation, we must strive to be at the forefront of technological advancement or we risk being left behind. It is important for the construction industry to start exploiting digital technology to do a lot more with a lot less. With advances in technology and sustainable practices, the construction industry can lead the way towards greener projects and become a better industry.

Keynote Speaker 1

Sr Mohd Zaid Zakaria



Sr Mohd Zaid Zakaria holds a master of science in civil engineering majoring in construction engineering and project management from Oklahoma State University, USA (1999), and a first degree in quantity surveying from Liverpool John Moores University, UK (1986). He is currently the Deputy Chief Executive II of the Construction Industry Development Board Malaysia (CIDB), a government agency under the Ministry of Works. He has many years of experience in the construction industry and is now responsible for developing and promoting programmes and tools to improve quality, safety and professionalism across the construction industry beyond ensuring registered contractors are accredited according to the needs of the national interest.

Plenary Session 1

Theme: Envisioning Sustainability and Digitalisation in ASEAN Construction Industry

Keynote 2

The Development Strategy of Nusantara as a Smart Forest Capital City

Indonesia's New Capital City has been in the development stage and will continue to move forward as planned. Relocating the capital city from Jakarta to East Kalimantan has become critical due to aspects such as the threat of natural disaster, the land subsidence and water availability crisis, the high urbanisation rate and concentration of economic growth in Jakarta and Java Island. The development strategy consists of several phases: the first phase involves developing basic infrastructure; the main buildings such as the presidential palace, parliament buildings and ministry buildings; and the initial housing development. The first phase started in 2020 and will continue to move forward in several stages until 2040 onwards. The development of Nusantara, the New Capital City of Indonesia, follows a smart forest city concept and is a modern city for all.

Keynote Speaker 2

Dr Ir Danis Hidayat Sumadilaga



Dr Ir Danis Hidayat Sumadilaga is the President of Persatuan Insinyur Indonesia (PII), which is making a positive contribution to national development, including the contribution of ideas, suggestions and thoughts to the direct involvement of PII members in engineering projects. Dr Ir Danis was among the expert staff in the Minister of PUPR in the Field of Development Integration (2014-2016), Head of Research and Development Agency (2016-2018) and Director General of Cipta Karya (2018-2020). He graduated as a civil engineer from the Institut Teknologi Bandung in 1985. He then furthered his studies in highway and transportation in the University of New South Wales in 1990. In 2016, he graduated from Universitas Indonesia in the area of strategic management.

Plenary Session 1

Theme: Envisioning Sustainability and Digitalisation in ASEAN Construction Industry

Keynote 3

Engineering for a More Resilient Construction Industry

The issue of the lagging construction industry in Malaysia existed even before the COVID-19 pandemic crisis began in early 2020. The Malaysian Government has been pro-actively advocating the use of updated tools and means to improve efficiency and to streamline the construction industry since the early 2000s. However, this initiative received lukewarm reception from the industry. IEM started preparing a position paper on Revolutionising Construction 4.0 in July 2020. Bringing together the stakeholders and related organisations ranging from government agencies, industry representatives and universities, the position paper examined the awareness and readiness of construction professionals for adopting construction industry 4.0 in Malaysia to create a roadmap for the these concepts in the nation's construction industry environment.

Keynote Speaker 3

Ir Professor Dr Norlida bt Buniyamin



Ir Professor Dr Norlida Buniyamin is currently President of the Institution of Engineers, Malaysia (IEM) for the 2022/2023 and 2023/2024 sessions and Professor in Electrical Engineering at the Universiti Teknologi MARA (UiTM). Her research interest is in industrial automation and robotics, knowledge management and engineering education. She obtained her bachelor of engineering (Hons.) (electrical and electronic) from the University of Adelaide, Australia, in 1985. She later received her master of science in industrial control systems from the University of Salford, UK, in 1993, before receiving a doctorate in total technology at the then University of Manchester Institute of Science and Technology (UMIST, now the University of Manchester), UK, in 2004.

Parallel Session 1

Sub-theme 1: Sustainability Considerations of Borneo Development Projects In ASEAN Region

The Borneo Island is known for its rich biodiversity, including rainforests, coral reefs, and diverse wildlife. However, like many other regions in the world, Borneo is facing a range of sustainability challenges due to development projects that are taking place across the island. This session looks into the coordinated efforts such as government's plan, private practices, and individual's experience in addressing these sustainability challenges.

Session Chair

Ir Dr Md Zarulazam b. Md Eusofe



Ir Dr Md Zarulazam b. Md. Eusofe is the managing director of Cahya Mata Roads Sdn Bhd, Sarawak, Malaysia and is responsible for overseeing and achieving the annual business/operational goals and objectives of the Road Maintenance Division. He has almost 20 years of experience in industries such as property development, road and highway development from both public and private sectors. He obtained bachelor of engineering in civil engineering (Hons) from University Putra Malaysia, an MBA from University Utara Malaysia and a doctorate in civil engineering from University of Birmingham. He is a certified professional engineer with a practising certificate (BEM), a certified member of the ASEAN Chartered Professional Engineers, on the Member/Talent Pool Committee of the Road Engineering Association, Malaysia and a member of the Chartered Institute of Highway and Transportation, UK.

Parallel Session 1

Sub-theme 1: Sustainability Considerations of Borneo Development Projects In ASEAN Region

Presentation 1

Challenging the Construction Status Quo for Digital Future

JKR Sarawak is the premier one-stop engineering agency for the government of Sarawak. Since its inception in 1882, it has undergone tremendous growth as a department throughout the history of infrastructure development in Sarawak. After the global pandemic, Sarawak has drawn up its own *Post-COVID-19 Development Strategy 2030*. The plan calls for sustainable development in the face of global post-pandemic economic uncertainty. Taking this opportunity, Sarawak is striving to intensify digitalisation and leveraging on this platform for the future of the region. JKR Sarawak had already embarked on its digital journey well before the outbreak of the recent pandemic. Now equipped with wide-ranging expertise and adoption in a wide area for construction digital technology, JKR is ready to better serve the Rakyat. This paper will briefly share some of the emerging technologies in digital construction that will, in the near future, affect how we live, work and play.

Presenter 1

Ts Norman Jan



Ts Norman Jan is the Principal Assistant Director for Corporate Planning and Information Management, Sarawak Public Works Department (PWD), Malaysia. He leads the corporate planning branch and responsible for project development planning of PWD, project information analysis and reporting, monitoring and coordinating stakeholders' requirements, Chief Information Officer for PWD, management of GIS and ICT, and HR Resource Person for the branch. He obtained a Bachelor of Civil Engineering from Universiti Teknologi Malaysia, a Diploma in Management from University of Western Australia and a Master of Policy Sciences from Curtin University, Western Australia.

Parallel Session 1

Sub-theme 1: Sustainability Considerations of Borneo Development Projects In ASEAN Region

Presentation 2

Embodied Carbon Estimation: The Next Evolution of Quantity Surveying

The construction industry has been reported to be one of the highest contributors to global CO₂ emissions. Although much effort and progress been made to reduce whole lifecycle emissions across the built environment, we still have many challenges on the path towards net-zero. All construction stakeholders will have to be heavily involved, but quantity surveyors seem to have a more important role to play in this sustainable and clean future. Considering carbon emissions data during the value engineering process is one of the options that has got to be acknowledged. Quantity surveyors will, in the future, not just be the champions for the cost data but will have more of a voice in giving insight to material selection and design consideration to help decision-making in reducing carbon emissions.

Presenter 2

Ts Amirul Izzat



Ts Amirul Izzat is RIB CostX Consultant of RIB Malaysia Sdn Bhd, Malaysia. He is a provisional quantity surveyor registered with the Board of Quantity Surveying Malaysia (BQSM), a registered student member of the New Zealand Institution of Quantity Surveyor (NZIQS) and a registered student member of RICS. He has a total of 13 years' of working experience, mainly in the energy and construction industry. He holds a bachelor's degree (hons) in quantity surveying from the Universiti Teknologi MARA, and an MBA from INTI International University, Malaysia. Prior to his current position as RIB CostX Consultant, he has held several positions such as product manager, quantity surveyor, contract administrator and project control engineer in various mega projects. He is on the Industrial Advisory Panel for two local universities, as well as the Accreditation Panel with Malaysia Board of Technologists (MBOT).

Parallel Session 1

Sub-theme 1: Sustainability Considerations of Borneo Development Projects In ASEAN Region

Presentation 3

A Personal Journey for Understanding and Implementation of Sustainability in My Everyday Work and Lifestyle

The aim of this presentation is to share my experiences living through the digital and technological evolution from the 1970s up to the 2020s and why I think we have got to move towards the phase of sustainability much more quickly. As my work centres around the construction industry, I believe the endless cycle of waste and mindless consumption of earth's limited resources has got to stop, and here I will share how the construction industry in Brunei is currently shaping itself to meet the goals of sustainability. In our daily lifestyle, we also need to make significant changes to daily consumption by following the three R principles: reduce, reuse and recycle. I will share my personal community project to encourage others to participate in sustainable farming practices and eventually to attain a more sustainable lifestyle.

Presenter 3

Sr Ambrose Shim Fui Sen



Sr Ambrose graduated in the early 1990s with a BSc (Hons) in quantity surveying and has worked as a quantity surveyor consultant in the industry from the early 1990s to the present. He started an organic farm sometime in 2018 and since then has evolved a sustainable farming practice. His entire working experience has been primarily centred around the construction industry, which has in many ways shaped his overall perception of how we consume the earth's finite resources, particularly after seeing the endless cycle of waste generated and the mindless consumption of resources. He has also previously served as a committee member of the surveying division for PUJA and is currently a council member for the 2022/2023 session for International Chapter Region 1, AIQS.

Parallel Session 1

Sub-theme 1: Sustainability Considerations of Borneo Development Projects In ASEAN Region

Presentation 4

Culturally Inspired Urban Design in Indonesia's Capital City Nusantara

The relocation plan for Indonesia's capital city to Nusantara, Paser Penajam, East Kalimantan, offers a big leap in Indonesian history. Situated in the equatorial zone, Kalimantan Island, also known as Borneo Island, harbours a rich, enormous, biodiverse rainforest ecosystem. The relocation plan may therefore raise concerns that it could cause further deforestation to the Borneo forest ecosystem. On the other hand, the sensitive existing environment of Nusantara can be seen as an opportunity for Indonesia to forge an extraordinary city development model that brings together nature and city into one ecosystem. The presentation will be about the concept of Nagara Rimba Nusa IKN that is designed to respectfully emulate the wisdom of the forests and culture of Indonesia. It will further describe the urban design propositions for Nusantara as part of the new capital city's transformation.

Presenter 4

Adjunct Associate Professor Sibarani Sofian



Sibarani Sofian is a passionate urban designer, planner and business leader with extensive experience in various urban projects in Asia, especially in Southeast Asia and Indonesia. Sibarani pioneered AECOM Design & Planning Singapore as Director of the Master Planning developing team for Southeast Asia. In 2011, he moved to AECOM Indonesia as director to grow the design and planning studio and established a strong presence in the country. In 2017, Sibarani founded URBAN+, which spearheads strategic urban projects in Indonesia. Sibarani serves as an expert member of the City and Architecture Review Board for the City of Jakarta. He initiated the formation of the Indonesia Urban Designer Institute (IARKI) in 2019, of which he now serves as president.

Parallel Session 2

Sub-theme 2: Development and Prospects Of Infrastructure And Civil Engineering Works In ASEAN Region

The ASEAN region has seen rapid economic growth in recent years, which has led to a growing demand for infrastructure and civil engineering works. The development of infrastructure is crucial for the region's economic competitiveness and social development. It plays a key role in promoting regional integration and connectivity. This session shares the past, current and new developments projects in Singapore, Indonesia and Myanmar. Besides, to ensure that infrastructure development is sustainable, inclusive, and benefits all members of society, the competencies of quantity surveyors and engineers in Indonesia are discussed.

Session Chair

Sr Lim Kok Sang



Sr Lim Kok Sang is the Treasurer of the ASEAN Quantity Surveyors Association (AQSA), past Chairman of the Quantity Surveying Division of Royal Institution of Surveyors Malaysia (RISM) and Principal of Sang QS Consult. He is qualified in quantity surveying, project management, construction law, adjudication and arbitration, and has over 20 years' experience serving as a consultant in Malaysia, Ireland and the United Arab Emirates. He obtained a BSc in quantity surveying (Hons) from University of Greenwich, an MSc in project management (Construction) from Northumbria University and a master of laws (LLM), construction law and arbitration, from Robert Gordon University.

Parallel Session 2

Sub-theme 2: Development and Prospects Of Infrastructure And Civil Engineering Works In ASEAN Region

Presentation 1

Singapore in Reflection and Motivation in Moving Forward

Singapore has enjoyed many decades of economic and development progress, but it is now being confronted by the need for new efforts in the sustainability and digitalisation of the construction industry. This abstract highlights some of the past developments that have provided the impetus to meet concerns related to sustainability and digitalisation in new construction projects in Singapore. These are enumerated in various sector of the industry, such as land infrastructure, land transportation, container port and harbours. New sustainable and digital construction developments tackling climate change, rising sea levels and CO₂ reduction are in the plans for tapping digitalisation technologies. Some are being undertaken by the government, while some are driven by private initiatives/innovative ideas: coastal sea walls, floating cities and P2P Link, among others. Reflection on past construction achievements could help to spearhead Singapore's efforts towards more sustainable and digital-centric concerns that would enable innovative enhancements and constructions. Moving into the 21st century of Asian prowess has been mindboggling, and the last two decades have been a chance for Singapore to continue to make more improvements that could contribute to the region while holding hands with all of our ASEAN friends in growing more with Asia and globally.

Presenter 1

Dr Liew Kian Heng



Dr Liew has been a practising professional engineer in civil/structural engineering since the 1980s. Dr Liew is involved as a consultant in strategic business management and the master planning of large-scale projects and infrastructural developments. These include oil and gas petrochemical facilities, pharmaceutical plants, infrastructure for industrial estates, ports, reservoirs, MRT and reclamations, among others. Dr Liew provides qualified person services and acts as adjudicator/expert witness in the building and construction industry. He undertakes sustainability and green circular economy innovations in agriculture, aquaculture, food/water/energy and wastes. Dr Liew serves on the board of directors and board of governors in educational institutions. He undertakes mentoring and lecturing at IHLs such as NUS/NTU/SIM/Polytechnics and startups.

Parallel Session 2

Sub-theme 2: Development and Prospects Of Infrastructure And Civil Engineering Works In ASEAN Region

Presentation 2

Independent EPC Cost Estimate for Gold Mining Project Investment in Indonesia: Approach and Methodology

SMEC Indonesia was engaged by a gold mining company in 2021 to undertake independent EPC cost estimating and scheduling services for a gold project situated in South Sulawesi, Indonesia. The presenter will perform the estimating execution strategy for this service to meet the target of AACE Class 2 with a target accuracy of -5% to -15% on the low side and +5% to +20% on the high side. This will include the basis for estimation, a cost estimate work breakdown structure (WBS) for each area, contingency and risk analysis and lessons to learn on this project.

Presenter 2

Ir Habibie Razak



Habibie Razak is Country Director of Surbana Jurong – SMEC Indonesia based in Jakarta. Razak is a senior civil engineer and is licensed as a professional engineer in Indonesia and ASEAN. He has worked in the role of project management and project engineering for over 20 years in various resource and energy industries, including nickel and coal mining, power plants and renewable energy, coal gasification, gas/LNG/LPG and biodiesel plant development. Apart from his daily professional activities, he has also been assigned as executive director of the Institution of Engineers Indonesia (PII) managing engineering membership and various technical events such as seminars and conferences in various sectors in Indonesia.

Parallel Session 2

Sub-theme 2: Development and Prospects Of Infrastructure And Civil Engineering Works In ASEAN Region

Presentation 3

Enhancement of Indonesian Quantity Surveyor Competency in Response to the Growth of the Construction Industry

To face the challenges that accompany the growth of the construction industry, it is crucial for quantity surveyors to enhance their skills and knowledge. IQSI, the association of quantity surveyors in Indonesia, acknowledges the significance of possessing the necessary competencies in the field. IQSI has therefore developed a curriculum to boost the abilities of quantity surveyors. Through a systematic research study involving its members, IQSI discovered that quantity surveyors can divide the areas of competency improvement into three main groups: mandatory, core and supporting competencies. The curriculum developed based on this research is expected to provide a solid foundation for improving the competency of quantity surveyors in Indonesia, enabling them to face the increasingly complex nature of development in the construction industry.

Presenter 3

Associate Professor Dr Susy Fatena Rostiyanti



Susy pursued formal undergraduate education in civil engineering with a focus on construction engineering and management at Institut Teknologi Bandung. Later, she pursued a master's degree in the same field at Virginia Polytechnic Institute and State University, USA. In 2011, she completed her doctorate in civil engineering at Institut Teknologi Bandung. Susy has been working as a lecturer since 1998, and she is now an Associate Professor at Podomoro University, Jakarta, Indonesia. She has authored numerous publications, including "Heavy Equipment for Construction Projects", which gained her national recognition and led to her being asked to serve as an expert witness in judicial reviews at the Constitutional Court. In addition to her work in education, Susy is actively involved in several organisations, including IQSI.

Parallel Session 2

Sub-theme 2: Development and Prospects Of Infrastructure And Civil Engineering Works In ASEAN Region

Presentation 4

Infrastructure Development for ASEAN Connectivity in Myanmar

Myanmar is located in the far northwest of mainland of Southeast Asia between the Indian Ocean and the Pacific Ocean; it borders India, China, Bangladesh and ASEAN countries such as Thailand and Laos. It is also located along the borders of the world's most populous countries (China and India) and has a long coastline bordering the Indian Ocean. Thus, Myanmar is at the centre of communication between the two ASEAN countries and the Indian Ocean. This presentation focuses on making efforts to increase investment from the private and public sectors in Myanmar infrastructure, which is one of the grand strategic goals of sustainable infrastructure included under the ASEAN Connectivity Vision 2025.

Presenter 4

Ms Le Le Win



Ms Le Le Win is a joint secretary, Quantity Surveying Chapter of the Fed. MES, Myanmar. She is a chartered quantity surveyor (Royal Institute of Chartered Surveyor, UK), member of the Australian Institute of Quantity Surveyors and technical member of the Singapore Institute of Surveyors and Valuers. She has 20 years' of working experience as a quantity surveyor. She graduated with a BSc in quantity surveying in 2013 from Heriot-Watt University. She currently works as managing director/principal QS for Quantity Surveying Services & Consultant in Leng Consultants (Myanmar). She is also the principal and trainer for quantity surveying training in the LCM School of Built Environment. She is also involved with the Singapore based company "Win Asia Consultants", founded in early 2023, to extend the market for quantity surveying services from Myanmar to overseas countries.

Plenary Session 2

Sub-theme 3: Digitalisation And Prospects Of Cost And Contract Management In ASEAN Region

Digitalization is transforming the construction industry globally, including in the ASEAN region. It has the potential to streamline processes and increase efficiency in cost and contract management. On the other hand, it possess several challenges, including limited access to digital technologies, a shortage of skilled personnel, and concerns around data privacy and security. This session discusses the challenges of quantity surveying profession in Thailand and the initiatives employed by the government of Singapore, Philippines and Malaysia to fully realize the benefits of digitalization.

Session Chair

Sr Saravanan Subramaniam



Sr Saravanan Subramaniam is the Director of SG Contract Services Sdn Bhd. He is a registered quantity surveyor with the Board of Quantity Surveyors Malaysia, FRISM and a chartered quantity surveyor, Australia (AAIQS). Upon graduation from Universiti Teknologi Malaysia, Saravanan joined Davis Langdon & Seah, Johor Bharu office. In 2000, he was transferred to Davis Langdon & Seah, Penang Branch office. In 2005, he partnered with Messr ER Consult to form a branch office in the northern region and in mid-2007, he obtained a permit from the Board of Quantity Surveyors to practise in the style of SG Contract Services to provide quantity surveying consulting. The firm was converted to a corporate body in January 2016 with the establishment of a branch office in Shah Alam.

Plenary Session 2

Sub-theme 3: Digitalisation And Prospects Of Cost And Contract Management In ASEAN Region

Presentation 1

The Implementation of Digitalisation in Pan Borneo Highway Sabah (PBHS) Project

The Pan Borneo Highway Sabah (PBHS) is a major highway project in Malaysia that involves the construction and upgrade of existing roads in the state of Sabah. The PBHS aims to improve connectivity and transportation infrastructure across the island of Borneo, which is shared by Malaysia, Indonesia, and Brunei. The highway will connect major cities and towns in Sabah, including Kota Kinabalu, Sandakan, Tawau, and Keningau, and will provide a much-needed upgrade to the state's transportation infrastructure. The government has taken an initiative to implement digitalisation in the construction and operation of the highway to enhance efficiency, transparency, and accountability. The use of digital tools, such as project management software, will help in streamlining the project management process, enabling better decision-making and ensuring on-time completion of the project.

Presenter 1

Sr Allen Leslie Chin



Sr Allen Leslie Chin is a registered Quantity Surveyor and graduated from University of Portsmouth, UK in 2003. He is a member of the Royal Institution of Surveyors Malaysia and registered as a Professional Quantity Surveyor with the Board of Quantity Surveyor Malaysia. Sr Allen with more than 20 years in the construction industry has been fortunate to experience different roles working for consultant firm, contractor, developer, private clients and the government. He has worked on different projects of various types, sizes and complexities ranging from small housing projects under the People's Housing Program (PPR) to mega oil and gas (SOGT, SAMUR) for Petronas and mega highway projects (Pan Borneo Highway) for the Malaysian Government. He is currently a Quantity Surveyor with Jabatan Kerja Raya Sabah and attached with Contract and Quantity Surveying Branch, Pan Borneo Highway Section.

Plenary Session 2

Sub-theme 3: Digitalisation And Prospects Of Cost And Contract Management In ASEAN Region

Presentation 2

BE Transformed: The Journey Continues

Prepared by Mr Khoo Sze Boon & Ms Jacqueline Huan Chie Sze

The construction industry transformation map (ITM) was launched in 2017 with key movements to develop the built environment (BE) into an advanced and integrated sector with progressive and collaborative firms and to provide good jobs for Singaporeans employed in the sector. The construction ITM together with the real estate (facilities management) ITM have been amalgamated into one BE ITM, which was launch in September 2022. This refreshed ITM built onto the progress of the ongoing transformation effort to transform the BE sector through the three key stages of a building's life cycle – from planning and design through construction to operations and maintenance. The key areas for this transformation are integrated planning and design (IPD), advanced manufacturing and assembly (AMA) and the sustainable urban system (SUS).

Presenter 2

Ms Jacqueline Huan Chie Sze



Ms Jacqueline Huan Chie Sze graduated from National University of Singapore (NUS) and is a Senior Cost Manager from Turner & Townsend Pte Limited, with more than 10 years in the built environment industry. Jacqueline is a member of Singapore Institute of Surveyors and Valuers (SISV) and Royal Institution of Chartered Surveyors (RICS). She has experience in various types of projects such as residential, retail mall, infrastructure in the aviation sector and she has strong experience in PPVC residential projects in Singapore. In 2016 and 2017, she participated in the PAQS-Iwata essay competition and won herself the Highly Commended Award. Currently, she is a part-time lecturer in NUS, Honorary Secretary of SISV QS Division and SISV Central Management Council and chairman of International Cost Engineering Council Rising Professional (ICEC RP).

Plenary Session 2

Sub-theme 3: Digitalisation And Prospects Of Cost And Contract Management In ASEAN Region

Presentation 3

Thailand QS Evolution

Thailand is not only a popular tourist destination but is also host to a rich and diverse construction market with plenty of opportunity – and with that, there is demand for quantity surveyors. The QS profession has evolved with the times and has had to face the challenges of staff retention, increased competition, economic pressures, digitalisation and modernisation amidst concerns for its future. We are going through a period of change. The needs and requirements of clients are evolving and QS firms need to acknowledge and embrace these changes and learn to adapt and shape their businesses to secure the QS profession for the future.

Presenter 3

Mr Seth Weng Wai Leong



Seth is the managing director of Mentabuild (formerly Arcadis Thailand), a leading market consultancy for construction cost and commercial management (quantity surveying), project and construction management and environmental advisory services with 130+ staff, vast project experience (over 1,000+ projects completed) and strong technical capability. Seth is a professionally qualified and accredited quantity surveyor with designations including being a Fellow of the Royal Institution of Chartered Surveyors (FRICS), a member of the Australian Institute of Quantity Surveyors (MAIQS), a certified quantity surveyor (CQS) and a BSc (Hons) in quantity surveying at the University of Reading, UK. He has also previously served as Chairman for the RICS ASEAN QS & Construction Professional Group Board.

Plenary Session 2

Sub-theme 3: Digitalisation And Prospects Of Cost And Contract Management In ASEAN Region

Presentation 4

Philippines: Future Unlocked The Potential and Value of the QS Profession to the Built Environment

In building better and smarter infrastructure, quantity surveyors would play a critical role in ensuring that projects are built on time – and on budget – without compromising quality. Filipino quantity surveyors have helped build global infrastructure, both onshore and offshore; however, their value in the Philippines has only recently been tapped. The private sector has started to embrace the profession as a partner in value creation. To make a more meaningful impact, it is necessary to build the needed capacity and capability in the public sector. While initiatives and programmes on creating awareness and knowledge, as they are deployed, have gained traction, there is more work to be done. Unleashing the full potential of QS and the public sector would help make a difference as we collectively work towards the aspirations and goals of the Philippine Construction Industry Roadmap 2020–2030.

Presenter 4

Mr Anthony A. Mariano



Anthony is executive vice president at Triumph Development Corporation, a property development and management company in the Philippines. He is also executive vice president at Triumph Properties & Management Corporation and Triumph Spaces Incorporated. Prior to re-joining the Triumph Group in February 2022, Anthony was the Programme Director at the Philippine Constructors Association. He was also a member of the working group that crafted the Philippine Construction Industry Roadmap 2020–2030. Anthony played a role in the establishment of the first Filipino industry-based and knowledge training on Building Information Modelling. He also had a hand in embedding BIM in the curriculum of a number of civil engineering colleges in the Philippines, as well as the development and offering of training regulations on BIM by the Technical Education and Skills Development Authority.

Panel Discussion

Sub-theme 4: Women Leadership in Construction Organisations Across ASEAN Region

The construction industry across the ASEAN region is traditionally male-dominated, with women being underrepresented in leadership positions. However, there is a growing recognition of the benefits of women's leadership in the industry, including improved diversity, innovation, and financial performance. This session would discuss on initiatives and challenges in the ASEAN region to support and promote women's leadership in the construction industry. While progress has been made, there is still a need for more awareness, advocacy, and support for gender diversity and women's leadership in the industry.

Session Chair

Associate Professor Sr Hasmawati Harun



Assoc. Prof. Sr Hasmawati Harun is an associate professor at the College of Built Environment, Universiti Teknologi MARA Shah Alam. She has combined 35 years of working experience locally and overseas. At present, she is also a visiting/adjunct professor for Taylors University, a registered consultant quantity surveyor (CQS) with the Board of Quantity Surveyors Malaysia (BQSM), a certified construction manager (CCM) with CIDB, a Fellow of the Royal Institution of Surveyors Malaysia (FRISM) and a committee member for the ASEAN Quantity Surveyors Association (AQSA), Board of Management (Education and Scholarship Fund), Master Builders Association Malaysia (MBAM) and Overseas Accreditors for Pacific Asia Quantity Surveyors (PAQS). She is also academic advisor for BQSM, panel accreditor for CIDB to certify the competency of construction managers across Malaysia. She is the academic consultant for Infrastructure University and external examiner for Segi University. She is a sought-after quantity surveying academic expert and advisor, especially in quantity surveying education and curriculum development.

Panel Discussion

Sub-theme 4: Women Leadership in Construction Organisations Across ASEAN Region

Panel Speaker 1

Sr Dainna Baharuddin



Sr Dainna Baharuddin is president of the Royal Institution of Surveyors Malaysia (RISM) for the session 2022/2023. She is the third woman president of RISM and has been active since 1992, holding several important positions. She is a registered quantity surveyor with the Board of Quantity Surveyor Malaysia and is active in the act, rules and internationalisation sub-committee (2021–2023); a board member (2015–2017), (2017–2019), (2019–2021); an examination board member (2012–2014), (2015–2016); an examination council chairman (2017–2019); professional development sub-committee (2001–2003); and is currently a member of the board of accreditation of higher education institutes.

Panel Speaker 2

Sr Dayang Hajah Hajjah binti Awang Haji Salleh



Sr Dayang Hajah Hajjah binti Awang Haji Salleh is a quantity surveyor with 30 years of experiences and obtained a BSc (Hon.) in quantity surveying from Reading University, UK, in 1991. Her early career started as a project quantity surveyor in the Public Works Department, Brunei. She is a professional member of RICS and is currently PUJA Brunei Vice-President and Chair of the Surveying Division. She is the co-founder of and partner at HZ & Associates, a quantity surveying consultancy firm in Brunei established in 1997. She also sits on various committees under the Board of Architects Professional Engineers and Quantity Surveyors (BAPEQS) and is an assessor for the quantity surveying professional examination for BAPEQS.

Panel Discussion

Sub-theme 4: Women Leadership in Construction Organisations Across ASEAN Region

Panel Speaker 3

Associate Professor Dr Susy Fatena Rostiyanti



Susy pursued formal undergraduate education in civil engineering with a focus on construction engineering and management at Institut Teknologi Bandung. Later, she pursued a master's degree in the same field at Virginia Polytechnic Institute and State University, USA. In 2011, she completed her doctorate in civil engineering at Institut Teknologi Bandung. Susy has been working as a lecturer since 1998, and she is now an Associate Professor at Podomoro University, Jakarta, Indonesia. She has authored numerous publications, including "Heavy Equipment for Construction Projects", which gained her national recognition and led to her being asked to serve as an expert witness in judicial reviews at the Constitutional Court. In addition to her work in education, Susy is actively involved in several organisations, including IQSI.

Panel Speaker 4

Ms Clarita San Diego-Ladica



Clarita has been working as an executive senior quantity surveyor in Asia Infrastructure Solutions Singapore since July 2013, providing pre- and post-contract quantity surveying consultancy services. She graduated with a bachelor of science in Civil Engineering from University of the East, Philippines, in 2002. Clarita is currently the Philippine Institute of Certified Quantity Surveyors (PICQS) Global Membership Committee Head. She joined PICQS in February 2013 and has since been an active volunteer in various committees in PICQS Singapore, as well as being elected twice as Chapter President. In 2020, she was elected to membership of the PICQS Board of Trustees and National Vice President (overseeing the Chapter Presidents, Global CPD Committee and Digital Transformation Committee).

Panel Discussion

Sub-theme 4: Women Leadership in Construction Organisations Across ASEAN Region

Panel Speaker 5 Ms Claire Zhang Pei



Ms Claire obtained a MSc (Building) from National University of Singapore and has over eight years of experience as a Consultant Quantity Surveyor and a QS represented the Client. Currently she is with the Building Construction Authority (BCA) Academy where she had spearheaded the QS diploma programme as lecturer-in charge from 2017 to 2022. Claire was a key member of the SISV PAQS organising committee (marketing and communication) for the 25th Annual Conference held successfully at MBS, Singapore in Sep 22. As a valued member (MSISV) of the 31st SISV QS Council, 2023-25 (co-opted) and a chartered surveyor (MRICS), Claire is inspired to transform the QS profession to play more value-added roles to foster collaborations amongst the Built- Environment ecosystem stakeholders. Equally important, she is a strong advocator for gender equalities in the construction sector.

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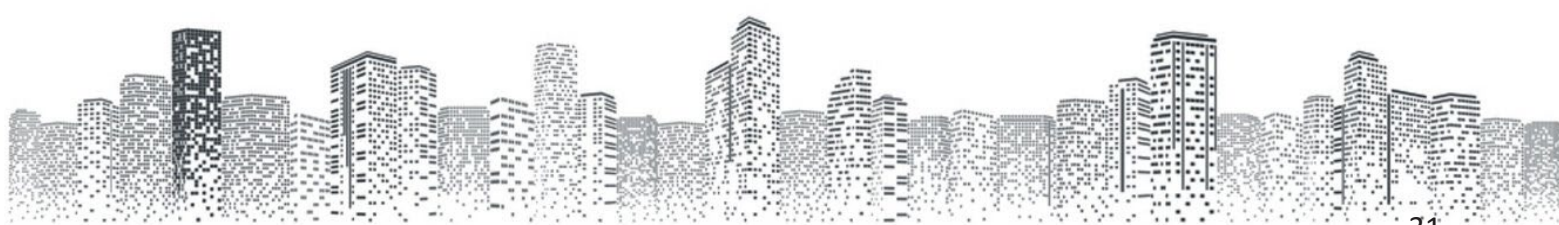
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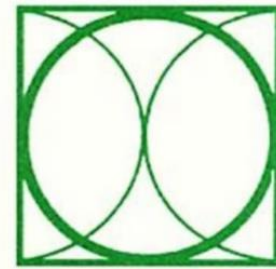


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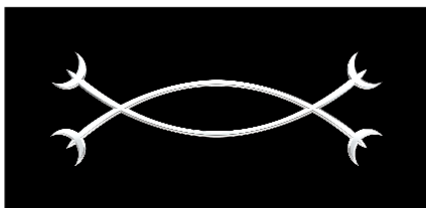


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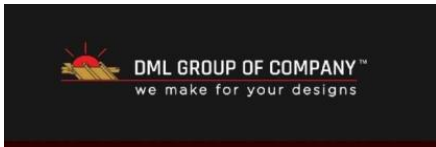


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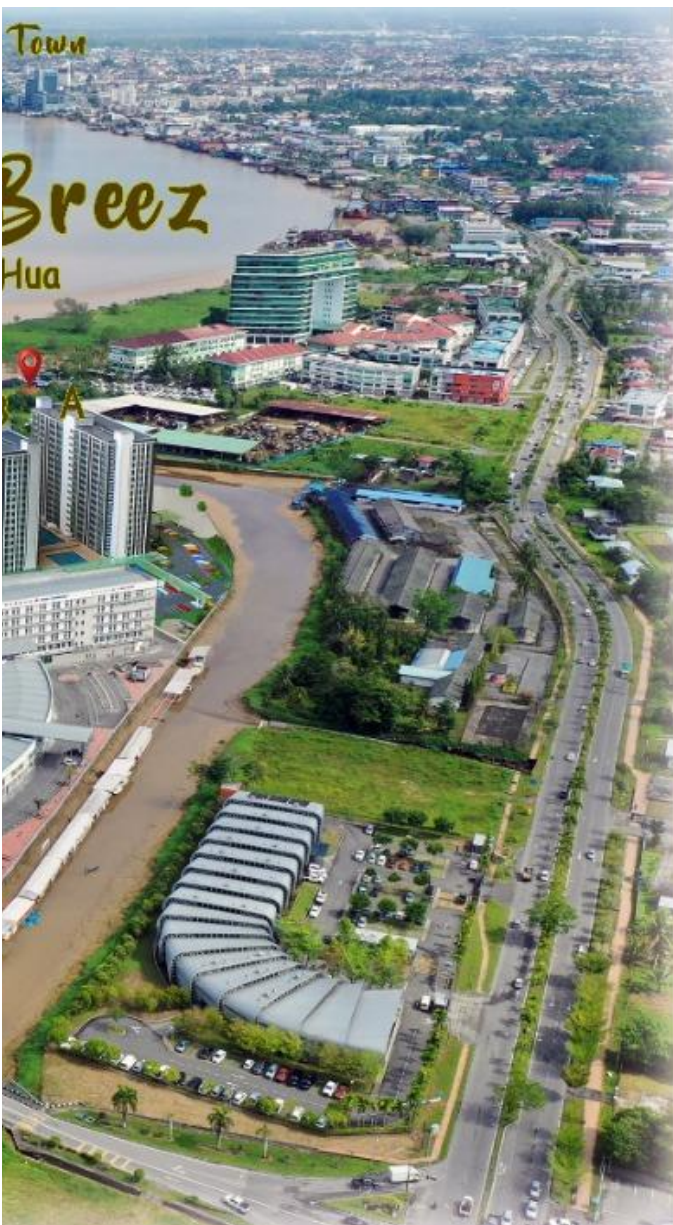
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