Closing the Talent Gap: Why Early Exposure to AIoT is Critical for Malaysia's Ambition

Feedback On Malaysia AI Readiness Assessment Report From Industry Players' Perspective
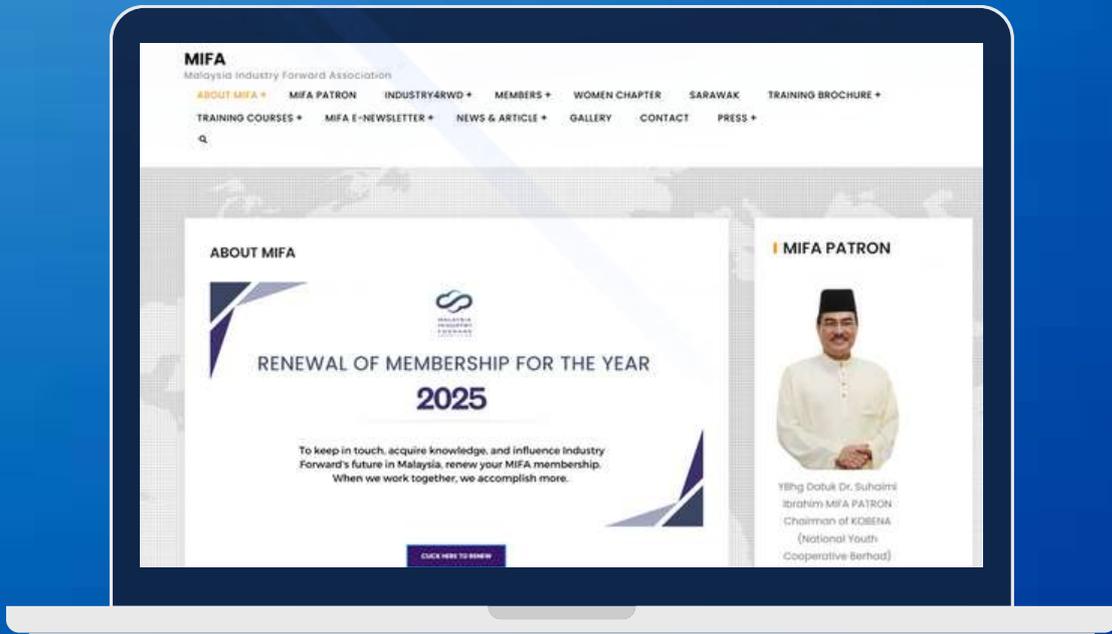
Malaysia's AI Boom: Investments, Governance, and Local Innovation

Moving the Industry Forward Agenda For All

YBhg. Datuk Seri Haji Hasnol Zam Zam Bin Haji Ahmad
Ketua Setiausaha **MOSTI**

www.mifa-i4.my

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Introduction

OBJECTIVE

To be the leading community platform that provides outstanding members value relates to Malaysia Industry4WRD Policy. It will connect related stakeholders, entrepreneurs, researchers, and policymakers with a strong voice of influence on the innovation, development, and market deployment of I4.0 & IR4.0 technologies & applications while stimulating and spearheading a favorable business environment.

MISSION

- Promote adoption, usage, and governance of IR4.0 implementation.
- Deliver outstanding member's value to all key stakeholders among business communities & policy makers (govt).
- Advocate and shaping guidelines for the IR4.0 best practices.
- Generate new business opportunities, increasing collaborations among members and building professional standing.
- Build a sense of community-belonging among its members.
- Develop a comprehensive digital library or knowledge bank including successful implementation of testimony and case studies into use case scenarios.

PRESIDENT'S REMARKS

Assalamu'alaikum Warahmatullahi Wabarakatuh.

Dear Readers,

Wishing all MIFA members, partners, fellow technologists, innovators, business owners, and government representatives the very best! We warmly welcome our new members who have just joined us.

The role of science, technology, and innovation in our lives is undeniable, as they continue to drive transformative changes in the world around us. To move forward, we must reimagine our approaches and build resilience into our economies. Science, technology, and innovation are central to this endeavor, and collaboration will be key as we navigate this rapidly evolving landscape.

Throughout our journey with Science, Technology, and Innovation (STI) and the Sustainable Development Goals (SDGs), we've learned that only by working together in a multi-stakeholder and multilateral manner can we achieve rapid progress. Scaling up scientific advancements and technological solutions to deliver them where they are most needed is critical. While this new era will bring significant challenges, policymakers, entrepreneurs, businesses, financiers, diplomats, and civil society must strengthen partnerships to address these issues effectively.

I hope to see new visions, renewed momentum, and innovative partnerships that harness our collective expertise and drive toward achieving the SDGs through science, technology, and innovation.

Wishing everyone a successful and fulfilling year ahead.

TS. HJ. MUHAMMAD DIDI HENDRA SHAH BIN NORHARASHID, P.TECH, CMILT
MIFA President
Managing Director of Hadi Venture Sdn. Bhd. & IOT Sata Sdn. Bhd.

CONGRATULATIONS TO OUR SPECIAL ADVISOR

Heartiest congratulations to Dato' Ts. Dr Amirudin Abdul Wahab FASc for receiving the prestigious Cyber Resilience Awards (ACRA) from the ASEAN Japan Cybersecurity Community Alliance (AJCCA) on 17 October 2024.

Dato' Ts Dr Amirudin currently serves as the Chief Executive Officer of CyberSecurity Malaysia. His leadership and commitment have significantly contributed to strengthening the cybersecurity landscape in Malaysia.

This recognition is a testament to his continuous efforts and dedication in promoting cyber safety and resilience at both national and regional levels.

The AJCCA is a collaborative initiative formed by nine leading cybersecurity communities from ASEAN nations and Japan. It is dedicated to enhancing cybersecurity capabilities, promoting information sharing, and fostering mutual support among its member nations to address the evolving challenges of the digital landscape.

CONGRATULATIONS TO OUR SPECIAL ADVISOR

Malaysia Industry Forward Association (MIFA) Congratulates Dr. Aini Suzana Ariffin on Her Prestigious Win at the Women in AI Awards 2025 – Asia Pacific

MIFA proudly extends our heartfelt congratulations to our esteemed Special Advisor, Dr. Aini Suzana Ariffin, on being honoured with the Women in AI Awards 2025 – Asia Pacific held in Sydney, Australia. This well-deserved recognition celebrates her visionary leadership and exceptional contributions to the field of artificial intelligence, both in Malaysia and across the region.

Dr. Aini Suzana is widely recognised as a prominent AI policymaker, consultant, and trainer, and currently serves as the Chair of the Science, Engineering, Technology and Innovation Policy Asia and the Pacific Network (STEPAN) under UNESCO. She is also a UNESCO AI Governance & Ethics Expert, known for her unwavering commitment to advancing ethical AI and fostering sustainable, socially impactful innovations. Her role as Special Advisor to MIFA has significantly strengthened our mission to accelerate industry-forward solutions and technologies.

This award not only marks a personal milestone for Dr. Aini Suzana but also stands as a moment of pride for Malaysia's innovation ecosystem. Her continued dedication inspires us all at MIFA and across the industry, and reinforces the importance of responsible AI development for future-ready economies. We look forward to continuing this journey together in shaping a more inclusive, ethical, and innovative AI-driven future.

5G REVOLUTION SEMINAR @ ADTEC MELAKA

5 December 2024, Melaka – The Malaysia Smart Cities Alliance (MSCA) Chairman, Ts. Dr Raslan Ahmad, together with a delegation from the Malaysia Industry Forward Association (MIFA) led by its President, Ts. Muhammad Didi Hendra Shah, attended The 5G Revolution: Transforming Lives and Industries Seminar organised by ADTEC Melaka. The event brought together key industry players and thought leaders to explore the transformative potential of 5G technology across various sectors.

The seminar featured a knowledge-sharing forum session with distinguished panelists including YBhg. Prof. Dr Tharek Abdul Rahman, Advisor to MCMC Academy, and YBrs. Puan Siti Zarah Sahat, Assistant General Manager of Business Development (Mobile & Wireless) at TM One. The discussions emphasised how 5G, the fifth generation of wireless technology, will revolutionise industries by delivering ultra-fast speeds, reduced latency, and increased connectivity—paving the way for digital innovation and smart city solutions.

A steering committee meeting to examine MIFA Academy's proposal on Smart Manufacturing Transitional Training for SMEs was scheduled for the afternoon. Through focused upskilling initiatives, the session sought to provide a systematic approach to preparing small and medium-sized businesses for the Industry 4.0 transition.

5G REVOLUTION SEMINAR @ ADTEC MELAKA

This was followed by a Programme & Courses Overview Briefing Session presented by Smart City Academy (SCA), an associate academy under MSCA. The briefing outlined upcoming educational offerings designed to support Malaysia's shift toward smart technologies and sustainable urban development.

The event signifies another impactful step in the collaborative efforts between MSCA and MIFA, reaffirming their commitment to strengthening smart partnerships with key educational institutions and vocational training bodies across the country. These engagements serve as a foundation for building future-ready talent and promoting nationwide adoption of digital and smart technologies.

EMPOWERING WOMEN IN AI: MIFA–U.S. EMBASSY DIALOGUE

1 January 2025 – A meeting with the U.S. Embassy to discuss organizing an event on *"Women in AI and Its Journey in Malaysia"* presents an exciting opportunity to foster collaboration, exchange knowledge, and highlight the role of women in shaping the future of artificial intelligence. The event aims to bring together policymakers, industry leaders, academics, and aspiring female AI practitioners to create a platform for dialogue, inspiration, and innovation.

The U.S. Embassy's involvement adds an international perspective, emphasizing the importance of diversity and cross-cultural collaboration in advancing AI initiatives. The discussion will focus on strategies to empower women in technology, bridge the gender gap, and promote inclusivity in Malaysia's growing AI landscape.

Key agenda points for the meeting include identifying potential speakers and panelists, setting clear objectives for the event, and exploring avenues for funding and sponsorship. Emphasis will be placed on creating a supportive environment for women in AI, showcasing success stories, and addressing challenges such as gender bias and unequal access to resources.

The Embassy's support could also facilitate connections with global leaders in AI, enabling Malaysian participants to gain insights from international best practices. This partnership has the potential to strengthen ties between the U.S. and Malaysia while championing a shared vision for innovation and equality in technology.

MIFA, OPERION SIGN MOU FOR DIGITAL INNOVATION IN NORTHERN MALAYSIA

10 January 2025, Penang – Malaysia Industry Forward Association (MIFA) marked another significant milestone through the signing of a Memorandum of Understanding (MoU) with Operion E-Commerce & Software Sdn Bhd, a leading e-commerce and software solution provider based in Penang.

The MoU symbolised the beginning of a strategic collaboration between MIFA and Operion, aimed at accelerating digital transformation efforts, fostering technological innovation, and strengthening community development initiatives within the northern region of Peninsular Malaysia.

Through this partnership, both parties pledged to work closely in areas such as smart solutions development, digital economy enhancement, and digital literacy outreach—especially among SMEs and local entrepreneurs. Operion's strong presence and experience in delivering tailored digital solutions complemented MIFA's vision of advancing Malaysia's industrial and technological capabilities.

MIFA expressed confidence that the collaboration would open new avenues for knowledge sharing, capacity building, and impactful programmes tailored to regional needs. It also aligns with the association's ongoing mission to support the government's digital economy agenda and create a more inclusive, tech-savvy business ecosystem.

The signing event not only marked a formal partnership but also reaffirmed MIFA's role as a proactive enabler of innovation-driven collaborations across Malaysia's diverse economic zones. Further updates and initiatives under this partnership are expected to roll out in the coming months.

MIFA & GITC SIGN MOU TO BOOST NATIONAL TVET AGENDA

6 January 2025, Kuala Lumpur – The Malaysia Industry Forward Association (MIFA), represented by its President Ts. Muhammad Didi Hendra Shah, signed a Memorandum of Understanding (MoU) with the Government-Industry TVET Coordination Body (GITC), marking MIFA's official collaborative engagement in enhancing the country's Technical and Vocational Education and Training (TVET) initiatives.

The signing ceremony symbolised a united commitment between the industry and government to drive forward the national TVET agenda through structured collaboration, knowledge sharing, and impactful programme development.

Through this MoU, MIFA and GITC aim to bridge the gap between industry needs and TVET capabilities by aligning training programmes with current market demands, ensuring Malaysian talents are future-ready and well-equipped with relevant digital and industrial skills.

This partnership also opens the door for MIFA to participate in policy consultation, curriculum development, and talent development projects under the national TVET framework. It reinforces the association's role as a strategic NGO partner dedicated to building a skilled and resilient workforce.

With this collaboration, MIFA continues to support Malaysia's aspiration to become a high-income, innovation-driven economy through inclusive and industry-aligned TVET transformation efforts.

STRATEGIC MEETING WITH MOSTI'S TECH DIVISION

Wednesday, 15 January 2025, Putrajaya – The Malaysia Industry Forward Association (MIFA) held a strategic meeting with senior officers from the Strategic Technology & Applications Division of the Ministry of Science, Technology and Innovation (MOSTI) to explore future collaboration between industry and government.

The engagement focused on strengthening ties between the public and private sectors in driving national technology initiatives. As Malaysia continues to prioritise digital transformation and innovation, strategic partnerships like these are key to aligning government policies with real-world industry needs.

In recognition of its active role and contributions, MIFA has once again been invited to serve as an industry partner for MOSTI's upcoming national project. This marks another milestone in MIFA's mission to support Malaysia's industrial ecosystem and ensure that industry voices are included in shaping national technology agendas.

MIFA encourages all members and stakeholders to keep their memberships active through the newly updated website. As more government-linked projects and initiatives take shape, MIFA aims to continuously deliver value through exclusive updates, networking sessions, and business opportunities. Stay tuned as MIFA continues to bridge industry and policy, empowering Malaysian businesses to thrive in a rapidly evolving innovation landscape.

MIFA SHOWCASE @ KARNIVAL GENERASI MADANI 2025

Nilai, 19 February 2025 – Malaysia Industry Forward Association (MIFA) proudly participated in the Karnival Generasi MADANI 2025, held at Universiti Sains Islam Malaysia (USIM), Nilai, Negeri Sembilan. The event was organised by the Ministry of Education Malaysia (KPM) as part of a nationwide initiative to promote future-ready skills and career awareness among youth.

At the carnival, MIFA hosted an engaging showcase featuring digital transformation initiatives, smart industry solutions, and opportunities within Malaysia's rapidly evolving industrial landscape. Visitors, especially students and young professionals, were introduced to career paths in smart manufacturing, data analytics, automation, and cybersecurity.

The showcase also highlighted MIFA Academy's role in offering industry-relevant training programmes aimed at equipping the younger generation with practical skills aligned with Industry 4.0 needs. Many participants expressed enthusiasm about exploring careers in high-impact sectors driven by innovation and digital technologies.

MIFA's presence at the carnival reaffirmed its commitment to inspiring and empowering Malaysia's future workforce. By engaging directly with students and educators, MIFA continues to bridge the gap between education and industry needs.

Through platforms like Karnival Generasi MADANI, MIFA strengthens its collaboration with public institutions, creating a more connected and industry-aware generation ready to drive the nation's digital and economic transformation.

MIFA SHOWCASE @ KARNIVAL GENERASI MADANI 2025

MAJLIS PELUNCURAN & KARNIVAL GENERASI MADANI KPM 2025

19 February 2025, Nilai – The Ministry of Education Malaysia (MOE) successfully organised the Majlis Peluncuran & Karnival Generasi MADANI 2025, a large-scale initiative aimed at bringing together students, educators, industry players, and government agencies to drive the nation's human capital development towards a sustainable and competitive future.

One of the main highlights of the carnival was a knowledge-sharing seminar focusing on current topics such as Environmental, Social and Governance (ESG), Fintech, and E-Invoicing. The sessions provided valuable insights into tackling digital challenges and strengthening business strategies in today's dynamic landscape.

The seminar served as an eye-opener for participants from various backgrounds, equipping them with knowledge on emerging business and technology trends. Young entrepreneurs, educators, and university students showed great interest in the sessions.

In addition to the seminar, the carnival featured various competitions including innovation showcases, digital skills challenges, and entrepreneurial pitch battles. These activities encouraged active participation from students and youth, sparking creativity, teamwork, and a spirit of healthy competition among the next generation of leaders.

The carnival also acted as a key platform to strengthen collaboration between the education sector and industry, in line with the Malaysia MADANI vision that promotes values-based, inclusive, and knowledge-driven development.

Majlis Peluncuran & Karnival Generasi MADANI 2025 reflects MOE's commitment to nurturing a future generation that is tech-savvy, resilient, and ready to embrace the challenges of the digital era.

MIFA ACADEMY JOINS STRATEGIC MEETING WITH MIGHT

Cyberjaya, 10 March 2025 – MIFA Academy, the training and development arm of the Malaysia Industry Forward Association (MIFA), represented the association in a high-level meeting with the Malaysian Industry-Government Group for High Technology (MIGHT). The discussion focused on exploring strategic collaborations in the area of training and education solutions for local industries.

During the meeting, both parties discussed potential partnership opportunities to support national capacity-building efforts in line with Malaysia's Industry 4.0 agenda. The dialogue also highlighted the importance of aligning training initiatives with current industry demands, especially in digital transformation and smart technologies.

As a result of the engagement, MIFA has agreed to serve as a supporting NGO, working alongside the Malaysia Smart Cities Alliance (MSCA) to co-support the Technomart Event Series 2025—a key programme spearheaded by MIGHT. The event series aims to connect solution providers, policymakers, and industry players through exhibitions, forums, and innovation showcases.

The first edition of Technomart 2025 will be particularly noteworthy, as it will feature AWS Limited as the main sponsor, highlighting the role of cloud computing in driving industrial innovation and smart city solutions.

This partnership reinforces MIFA's commitment to becoming a key enabler in Malaysia's technological development through meaningful collaborations, industry engagement, and talent empowerment.

MADANI DIGITAL TRADE LAUNCHED BY MINISTER OF MITI

Kuala Lumpur, 13 March 2025 – The Malaysia Industry Forward Association (MIFA), through its academy arm, was represented by MIFA Academy Chief Executive Officer, Mr. Mohd Zakry Bin Saed at the official launch of Madani Digital Trade, an initiative spearheaded by the Ministry of Investment, Trade and Industry (MITI).

The event was officiated by the Honourable Minister of MITI, YB Datuk Seri Utama Tengku Zafrul Tengku Abdul Aziz, and took place at the Malaysia International Trade and Exhibition Centre (MITEC), Kuala Lumpur. Organised by MATRADE, the event successfully gathered SMEs, industry leaders, and digital trade stakeholders from across the nation.

The Madani Digital Trade initiative aims to strengthen Malaysia's global trade capabilities through digitalisation, aligning with national aspirations under the Madani Economy framework. The initiative is expected to open up new pathways for businesses—particularly SMEs—to leverage digital platforms for trade, increase competitiveness, and access international markets more efficiently.

MIFA Academy's presence underscored the association's ongoing commitment to supporting digital transformation in Malaysian industries, especially through knowledge development, training, and strategic collaborations.

As Malaysia accelerates towards a more connected and digital future, platforms such as Madani Digital Trade will play a key role in empowering local businesses and fostering inclusive economic growth through innovation and global market integration.

MIFA ACADEMY AT AUTOMOTIVE DIGITAL FORUM

29 April 2025, Shah Alam – MIFA Academy was honoured to be invited as one of the panelists at the Digital Transformation for Automotive Supply Chain forum, organised by Agytek.

The event, held at Glenmarie Golf Resort, brought together key industry players to discuss the evolving landscape of the automotive sector in the era of digitalisation.

During the forum, MIFA Academy shared valuable insights on how digital innovation had been reshaping supply chain operations. Their presentation emphasised the importance of adopting smart technologies—such as IoT, data analytics, and automation—to remain agile and competitive in the rapidly changing industrial environment.

MIFA Academy's participation reaffirmed its strong commitment to supporting digital transformation within the manufacturing and automotive sectors. By showcasing real-world applications and forward-thinking strategies, MIFA inspired industry players to embrace innovation.

The event also served as a meaningful platform for networking and collaboration, paving the way for future partnerships between MIFA Academy and other key stakeholders.

Through such engagements, MIFA strengthened its position as a thought leader in Malaysia's journey towards industrial digitalization.

PANEL DISCUSSION
"Digital Transformation for Automotive Supply Chain"

MR. MOHAN RAJ KANDIAH — Digital Lead, Accenture [MODERATOR]

MR. TIGER WANG — Chief Executive Officer, Agytek Digital Sdn. Bhd.

TUAN TS. NIZMAR MOHD NAZAR — Deputy Chief Executive Officer, MARii

EN. MOHD ZAKRY BIN SAAD — Chief Executive Officer, MIFA Academy

MIFA PROPOSES STEM CAREER CARNIVAL TO MINISTER FAHMI FADZIL

30 April 2025, Putrajaya – The Malaysia Industry Forward Association (MIFA) took a significant step toward promoting STEM careers among Malaysian youth by presenting a formal proposal to YB Datuk Ahmad Fahmi Fadzil, Minister of Communications, at his office in Putrajaya. The proposal outlined plans for a large-scale event, Karnival Kerjaya STEM @ Lembah Pantai, aimed at inspiring the younger generation to explore career opportunities in science, technology, engineering, and mathematics (STEM).

The proposed carnival is envisioned as a vibrant and engaging platform that brings together key industry players, educational institutions, government agencies, and students. It will feature interactive exhibitions, hands-on workshops, career talks, and STEM competitions —all designed to provide real-world exposure and spark interest in future-focused industries. MIFA believes such an initiative is timely and essential in nurturing Malaysia's future talent pool in line with the country's digital and industrial transformation goals.

During the presentation, MIFA's President Ts. Muhammad Didi Hendra Shah highlighted the importance of bridging the gap between education and industry. By introducing STEM pathways at an early stage and connecting students with professionals and industry leaders, the carnival is expected to foster a deeper understanding of how STEM can lead to impactful and rewarding careers. The initiative also aligns with the MADANI government's commitment to empowering youth through education and innovation.

YB Minister Fahmi Fadzil expressed his appreciation for MIFA's proactive approach and acknowledged the importance of such initiatives in shaping the nation's future.

He emphasized the Ministry's support for programs that promote digital literacy, career readiness, and inclusivity in technology fields, especially in underserved communities such as Lembah Pantai.

With strong support from the Ministry and relevant stakeholders, MIFA is optimistic that the Karnival Kerjaya STEM @ Lembah Pantai will become a flagship event that can be replicated nationwide. The association remains committed to driving forward its mission of building a digitally skilled and industry-ready Malaysian workforce through collaboration, innovation, and knowledge sharing.

MIFA EXPLORES STRATEGIC TRAINING COLLABORATION WITH IDE

30 April 2025, Shah Alam – The Malaysia Industry Forward Association (MIFA) initiated a promising two-way discussion with the Executive Director of Institut Darul Ehsan (IDE), signalling the start of a potential strategic partnership in the field of training and education.

The meeting focused on exploring collaborative opportunities aimed at developing talent pipelines, enhancing workforce skills, and addressing gaps in current industrial training programs. With both organisations committed to empowering Malaysians through quality education and upskilling initiatives, the discussion highlighted several key areas for joint action—especially in technical and industry-relevant training modules.

IDE, as a thought-leading institution under the Selangor State Government, brings strong research capability and academic experience, while MIFA offers close industry linkages and real-world insights from its network of industry players. The synergy between the two parties is seen as a valuable opportunity to bridge the gap between policy, academia, and industry needs.

Both parties expressed optimism about the potential collaboration and agreed to outline a more detailed framework for partnership in the coming months. This may include co-developing training programmes, hosting joint forums or workshops, and rolling out targeted initiatives to prepare youths and professionals for Industry 4.0 and beyond.

Through this engagement, MIFA reaffirmed its dedication to strengthening Malaysia's industrial ecosystem by supporting impactful education strategies and fostering collaborations that build future-ready human capital.

AI TRAINING: EQUIPPING LAW ENFORCEMENT WITH AI SKILLS

A significant step towards digital transformation in law enforcement took place recently through the AI Advanced Workshop, specifically designed for enforcement officers, particularly from Polis Diraja Malaysia (PDRM). The workshop focused on deepening participants' understanding of artificial intelligence (AI) and its potential to enhance operational efficiency, accuracy, and responsiveness in policing tasks.

One of the key objectives of the session was to lay the foundation for the development of AI models tailored to the unique duties of law enforcement. With rapid advancements in AI technology, integrating intelligent systems into daily operations can help streamline data processing, support investigations, and improve decision-making speed—crucial factors in law enforcement effectiveness.

Participants were first guided to grasp the core principles and technologies behind AI, which is a vital precursor to any successful model development. Once the foundation is well understood, building relevant AI solutions that can be integrated into existing databases and task scopes becomes a more achievable goal.

This initiative reflects the growing need for AI awareness and capabilities within the government sector, particularly among enforcement agencies. It also marks a milestone in efforts to bridge technological knowledge gaps and ensure public sector readiness for future innovation.

A heartfelt thank you goes to MIFA (Malaysia Industry Forward Association) for championing this cause and providing the platform to upskill government stakeholders. Special recognition is given to Ts. Muhammad Didi Hendra Shah and Bukhari Roslan for their continuous efforts in advocating AI adoption in Malaysia's public service.

MIFA AT NATIONAL TVET DAY 2025

MIFA had the opportunity to attend the vibrant celebration of National TVET Day 2025, held from 11 to 13 June at MITC Melaka. The event brought together key stakeholders from across the country in the field of Technical and Vocational Education and Training (TVET).

During the event, MIFA representatives had the chance to engage in conversations and take photos with the Deputy Prime Minister, YAB Datuk Seri Ahmad Zahid Hamidi, as well as other notable figures, including Datuk Seri Shamsul Iskandar (Senior Political Secretary to the Prime Minister), Datuk Dira Abu Zahar (Melaka State Executive Council Member), and representatives from MTVET, the Ministry of Education Malaysia (KPM), UNIMAP, and many others.

The celebration was not only inspiring but also reignited our commitment to supporting the national TVET empowerment agenda for the development of human capital. Congratulations to all parties involved in making this event a great success.

MIFA & ADTEC KULIM TO UPSKILL TALENT TOGETHER

On 14 July 2025, the Malaysia Industry Forward Association (MIFA) conducted an official visit to ADTEC Kulim, touring the institution's various teaching laboratories and engaging in discussions with its technical teams.

The visit served as a meaningful step towards a future collaboration, as both parties expressed a strong interest in working together to address industry needs through talent development.

During the engagement, MIFA and ADTEC Kulim agreed to jointly organise a series of technology training programs focused on upskilling local talent and equipping them with in-demand technical competencies.

This initiative reflects a shared commitment to strengthening the link between industry and academia, while supporting national goals of workforce readiness and industrial innovation.

MIFA X FULLER IMPACT:
DRIVING ESG AND DIGITAL GROWTH

On 15 July 2025, the Malaysia Industry Forward Association (MIFA) visited FULLER IMPACT's office at Q Sentral, Kuala Lumpur, for the official signing of a Memorandum of Understanding (MOU).

The event marked the beginning of a strategic partnership between MIFA and FULLER IMPACT, a tech-driven company with a strong focus on Environmental, Social, and Governance (ESG) principles and the force behind the platform Fuller360.

This collaboration aimed to promote sustainable industrial practices and accelerate digital transformation among Malaysian businesses. Through this partnership, both parties committed to working together to empower local industries with future-ready solutions and ESG-compliant frameworks.

The MOU signing reflected a shared vision to strengthen Malaysia's industrial ecosystem through innovation, sustainability, and strategic collaboration.

MIFA UPSKILLS SENIORS IN DIGITAL GARMENT CRAFT

From 14 to 16 July 2025, the Malaysia Industry Forward Association (MIFA) conducted a three-day training program titled "Smart Sewing and Digital Garment Craft" for 25 senior citizens aged 60 and above. This initiative, held as part of MIFA's Corporate Social Responsibility (CSR), was designed especially for the elderly community. It aimed to equip participants with modern sewing techniques and digital garment design skills, bridging traditional craftsmanship with today's digital tools, while reflecting MIFA's commitment to giving back to society.

Beyond technical skills, the program also focused on entrepreneurial empowerment—guiding participants on how to monetize their creations and explore opportunities for sustainable, home-based businesses. The training reflects MIFA's ongoing commitment to inclusive skill development and lifelong learning, especially among the senior community, in line with national goals of social and economic empowerment.

Participants were introduced to user-friendly digital platforms and mobile apps that support design, pattern-making, and online marketing—tools that allow them to take their creations from concept to market more efficiently. Trainers also shared real-life success stories of local entrepreneurs who turned small-scale sewing into viable businesses, inspiring participants to pursue similar paths.

The program concluded with a small exhibition showcasing the trainees' work, attended by family members and local community leaders. This finale not only celebrated their achievements but also demonstrated the potential of senior citizens to contribute meaningfully to the creative economy when provided with the right support and skills.

MIFA UPSKILLS SENIORS IN DIGITAL GARMENT CRAFT

MIFA'S LUNCH MEETING SPARKS IDEAS AMONG TECHNOPRENEURS

On 17 July 2025, the Malaysia Industry Forward Association (MIFA) hosted a vibrant networking luncheon with its members, bringing together a dynamic group of technopreneurs, innovators, and industry players for an afternoon filled with meaningful engagement, knowledge sharing, and collaboration.

Held in a casual and welcoming setting, the luncheon served as a platform to foster deeper connections within Malaysia's growing tech ecosystem. Entrepreneurs from various sectors came together to exchange ideas, share experiences, and explore potential collaborations in a relaxed, community-focused environment.

The highlight of the event was a sharing session featuring three inspiring speakers—Mr. Lutfi from Shoppego, Mr. Hazeli from Move Robotics, and Mr. Mahadhir from Krenovator. Each shared their unique entrepreneurial journeys, touching on the challenges, pivots, and breakthroughs that shaped their paths. Their insights not only motivated fellow attendees but also sparked conversations on innovation, resilience, and future trends in the tech landscape.

Participants praised the openness and depth of the discussions, noting how valuable it was to learn directly from active players in the field. Many left the event feeling energised and hopeful about future possibilities—not just for their individual ventures, but for the collective growth of Malaysia's tech and innovation scene.

The luncheon was not just a networking opportunity—it was a celebration of community, collaboration, and the spirit of progress. MIFA is committed to continuing this momentum by organising more events that uplift and unite the local technopreneur community. Plans are already underway to expand future gatherings, offering even more platforms for startups, SMEs, and innovators to connect and grow together.

MIFA MEETS PERLIS MB TO DISCUSS INDUSTRIAL COLLABORATION

On 21 July 2025 (25 Muharram 1447H), the Malaysia Industry Forward Association (MIFA) paid a courtesy visit to the Chief Minister of Perlis, YAB Tuan Mohd Shukri Ramli, at his office in Kangar. The delegation was led by MIFA President, Tuan Ts. Hj. Muhammad Didi Hendra Shah, an expert in IoT and Industrial Automation. The meeting took place at 3:00 PM and served as a platform to discuss collaborative opportunities for advancing industrial growth and digital innovation in the state of Perlis.

Also present during the visit was YB Ustaz Muhammad Azmir bin Azizan, Member of the Perlis State Executive Council, who contributed to the fruitful dialogue between state leadership and MIFA representatives.

The discussion centred on potential cooperation in areas such as technical upskilling, smart manufacturing, digital economy initiatives, and empowering local talent through Industry 4.0-driven training programmes. The meeting highlighted the alignment between MIFA's strategic goals and the Perlis State Government's aspirations for sustainable development, economic resilience, and youth empowerment.

MIFA expressed its full commitment to supporting Perlis in implementing transformative industry-based initiatives, particularly those involving IoT integration, automation systems, and smart solutions for SMEs and rural communities. Both parties conveyed optimism about future partnerships and agreed to explore concrete steps to strengthen Perlis' position as an emerging hub for digital and industrial progress.

The visit reflects MIFA's continued efforts to collaborate with state governments in promoting innovation-led growth and fostering inclusive industrial transformation throughout Malaysia.

MIFA MEETS PERLIS MB TO DISCUSS INDUSTRIAL COLLABORATION

MIFA & PKB STRENGTHEN TIES FOR KEDAH TALENT DEVELOPMENT

On 22 July 2025, the Executive Committee (EXCO) of the Malaysia Industry Forward Association (MIFA) paid a courtesy visit to Permodalan Kedah Berhad (PKB) at Wisma PKNK, Alor Setar. The visit marked a significant step towards strengthening collaboration between industry and state-level stakeholders to advance talent development and digital empowerment in Kedah.

The MIFA delegation was warmly received by PKB Chief Executive Officer, Mr. Azad Jasmi, who welcomed the opportunity for open dialogue and partnership. The session included a productive exchange of ideas, with both parties aligning on shared goals to uplift local communities through strategic, forward-looking initiatives.

One of the core highlights of the meeting was the discussion around upskilling and reskilling initiatives, especially in the context of emerging technologies and Industry 4.0. The conversation explored practical frameworks for equipping Kedah's workforce—including youth, jobseekers, and SMEs—with digital skills and knowledge that match evolving industry demands.

MIFA and PKB expressed mutual interest in forging a strategic collaboration that would see the rollout of structured training programmes focused on innovation, smart technology, and entrepreneurship. This aligns with both organisations' commitment to empowering communities and fostering inclusive economic growth through education and skill development.

The visit concluded on a positive note, with both parties optimistic about the future of this partnership. MIFA looks forward to working closely with PKB to develop impactful programmes that not only benefit Kedah but also serve as a model for industry-government collaboration across other Malaysian states.

MIFA PRESENTS INSIGHTS TO MOSTI SECRETARY-GENERAL

Following its ongoing engagement with national stakeholders, the Malaysia Industry Forward Association (MIFA) paid a courtesy visit to the Office of the Secretary-General of the Ministry of Science, Technology and Innovation (MOSTI) on 23 July 2025. The delegation was warmly received by YBhg. Datuk Seri Haji Hasnol Zam Zam bin Haji Ahmad, who graciously welcomed the MIFA team and took time to listen to key industry insights and recommendations.

During the meeting, MIFA shared valuable input on behalf of its network of high-tech industry players —spanning areas such as smart manufacturing, IoT, automation, digitalisation, and innovation ecosystems. The discussion served as a platform to highlight the needs, challenges, and potential collaborative efforts between industry and government to accelerate national progress in science and technology.

The MIFA delegation expressed appreciation for the opportunity to engage directly with the leadership of MOSTI and emphasised the importance of aligning industry initiatives with national policy objectives. The conversation also underscored shared priorities in democratising science, humanising technology, and mainstreaming innovation, which are central to MOSTI's vision.

Although brief, the session was highly impactful, laying the groundwork for potential collaboration in future national programmes and policy development. MIFA reaffirmed its support for MOSTI's mission and pledged to contribute actively in bridging the gap between public policy and private-sector innovation. MIFA looks forward to strengthening ties with MOSTI and other relevant ministries to build a more connected, innovative, and resilient Malaysian industry ecosystem.

WELCOME TO OUR NEW MEMBERS

MIFA is thrilled to announce the addition of four dynamic and innovative companies to our network. Each of these companies brings unique expertise and valuable insights to the table, strengthening our mission to drive growth, innovation, and industry excellence. Let's take a closer look at our newest members:

Operion
Established in 2007, Operion is a leading player in delivering cutting-edge technological solutions across various industries. With a focus on operational efficiency and digital transformation, Operion has earned a reputation for providing high-quality services that help businesses stay competitive in a rapidly changing market. By joining MIFA, Operion aims to collaborate with industry leaders to contribute to the development of a future-ready workforce and help shape Malaysia's industrial landscape.

GWorks Digital
GWorks Digital is a forward-thinking company specializing in digital marketing, web development, and technology solutions. Their innovative approach to solving business challenges has helped numerous organizations thrive in the digital age. As a proud new member of MIFA, GWorks Digital is excited to expand its network and contribute to Malaysia's digital transformation, with a particular focus on enhancing e-commerce platforms and digital business strategies.

Leader Biz Net
LEADER Biz Net Sdn Bhd, established on May 5, 2016, began as a typesetting and graphic design service before expanding into publishing, advertising, printing, event management, and supplying reading materials. As a new MIFA member, Leader Biz Net is eager to collaborate with other industry players, bringing their wealth of knowledge and experience to further elevate Malaysia's competitive edge in the global market.

Digital Methods
Digital Methods Sdn Bhd is a leading provider of innovative training and business solutions, specializing in IT, digital technologies, and workforce development. Established with the vision of empowering organizations through cutting-edge technologies, we offer a wide range of training programs that help individuals and businesses excel in the digital age. As a member of MIFA, Digital Methods looks forward to working alongside other like-minded organizations to foster collaboration and help build a stronger, more resilient workforce.

WELCOME TO OUR NEW MEMBERS

Akar Indah Sdn Bhd

Akar Indah Sdn. Bhd., established on 12 March 2002 and based in Kluang, Johor, is a construction company specializing in building works and civil engineering projects. Certified with ISO 9001:2008 and registered under CIDB Grade G5, the company also operates as an IBS 3S manufacturer and installer, supplying building materials and providing related installation services and training. Its operations focus on delivering quality construction solutions in both public and private sector projects, with a strong presence in Johor and surrounding regions.

LOLA Digital Sdn Bhd

LOLA Digital Sdn. Bhd., incorporated on 14 December 2021 and based at Menara TRX in Kuala Lumpur, is an EdTech company offering an all-in-one digital platform for kindergartens and childcare centers in Malaysia. Its LOLA system streamlines operations such as enrollment, billing, scheduling, attendance, and parent-teacher communication, while providing safety features like the Continuous Alert for Children Tracing System (CATCH) and AI-assisted lesson planning. Through its mobile apps, the platform keeps parents updated in real time with notifications, photos, videos, and progress reports, aiming to improve efficiency, safety, and engagement in early childhood education.

We are excited to welcome these new members to the MIFA community. Together, we will continue to shape the future of Malaysia's industries through innovation, collaboration, and strategic development.

Zakry MS
MIFA Academy

EMOTIONAL INTELLIGENCE (EI): A DRIVING FACTOR PUSHING ORGANIZATIONAL SUCCESS AND INDUSTRY ADVANCEMENT

In today's fast-paced, border-less, and increasingly interconnected digital world, the concept of Emotional Intelligence (EI) has emerged as a critical factor driving industries forward. While technical skills and expertise remain essential, the role of emotional intelligence in fostering effective leadership, team collaboration, customer relations, and workplace culture has proven to be indispensable. This article explores how emotional intelligence is not just a soft skill but a key driver of organizational success, contributing to innovation, employee satisfaction, and overall industry advancement.

What is Emotional Intelligence?

Emotional intelligence refers to the ability to recognize, understand, manage, and influence one's emotions, as well as the emotions of others. It is commonly broken down into five key components:

1. Self-awareness – Recognizing and understanding one's own emotions and their effect on thoughts and behavior.
2. Self-regulation – The ability to control or redirect disruptive emotions and impulses and adapt to changing circumstances.
3. Motivation – A passion for work that goes beyond money and status and a tendency to pursue goals with energy and persistence.
4. Empathy – The ability to understand the emotional makeup of other people and treat them according to their emotional reactions.
5. Social skills – The ability to manage relationships, build networks, and
navigate social complexities in the workplace.

Emotional Intelligence in Leadership

Strong leadership is often the defining factor in an organization's success. Leaders who exhibit emotional intelligence are better equipped to handle the challenges and stresses that come with guiding teams. They can create an environment where employees feel heard, understood, and valued, which leads to higher engagement and productivity.

Leaders with high emotional intelligence can also navigate conflicts with greater ease. By understanding the emotions of those involved, they can mediate disputes effectively, leading to healthier relationships and fostering a collaborative culture. This capability is essential for industries that require teamwork, such as tech, healthcare, and service sectors.

Furthermore, emotionally intelligent leaders inspire motivation. Theyencourage innovation by creating an atmosphere where employees feel safe to take risks, voice their ideas, and push boundaries without fear of judgmentor failure. This kind of leadership not only drives performance but also fosters long-term employee loyalty and retention.

Building Collaborative and Resilient Teams

In any industry, collaboration is key to innovation and progress. Emotional intelligence helps individuals build stronger relationships with colleagues, paving the way for effective teamwork. Employees with high emotional intelligence are more likely to communicate openly, listen actively, and resolve conflicts constructively. These behaviors significantly enhance group dynamics, ensuring teams can work cohesively toward shared goals.

Moreover, emotionally intelligent teams are more adaptable in the face of change. In industries undergoing rapid technological advancements or market shifts, the ability to remain resilient and agile is paramount. Employees who can manage their emotions during uncertain times are better able to adjust their strategies, continue problem-solving, and maintain their productivity, even when facing adversity.

Zakry MS
MIFA Academy

EMOTIONAL INTELLIGENCE (EI): A DRIVING FACTOR PUSHING ORGANIZATIONAL SUCCESS AND INDUSTRY ADVANCEMENT

Customer Relations and Brand Loyalty

One of the most impactful ways emotional intelligence drives industries forward is in customer relations. In industries like retail, hospitality, and customer service, the ability to understand and empathize with customers is a game-changer. Companies that train their employees in emotional intelligence often find that their customer satisfaction levels improve, leading to stronger brand loyalty and higher sales.

Empathy is particularly important in customer-facing roles. Employees who are emotionally intelligent are able to sense the needs and concerns of customers more effectively, respond with appropriate solutions, and foster positive experiences. This kind of emotional awareness creates a bond between the company and its customers, which can drive repeat business and positive word-of-mouth.

Creating a Positive Work Culture

One of the most significant benefits of emotional intelligence in the workplace is its ability to shape organizational culture. Companies that prioritize emotional intelligence foster an environment of trust, inclusivity, and mutual respect. In these environments, employees feel psychologically safe, which promotes greater creativity, collaboration, and well-being.

A positive work culture built on emotional intelligence also reduces employee stress and burnout. By encouraging self-regulation and empathy, organizations can help individuals cope with challenges without becoming overwhelmed. This support leads to higher morale and productivity, creating a positive feedback loop that propels the organization forward

Emotional Intelligence as a Competitive Advantage

In an increasingly competitive business world, emotional intelligence provides organizations with a significant edge. Businesses that leverage EI in their operations are more likely to attract top talent, retain skilled employees, and create a lasting impact on their markets.

In an increasingly competitive business world, emotional intelligence provides organizations with a significant edge. Businesses that leverage EI in their operations are more likely to attract top talent, retain skilled employees, and create a lasting impact on their markets.

As industries continue to evolve with advancements in technology, emotional intelligence will play a crucial role in ensuring that organizations remain adaptable, responsive, and forward-thinking. AI, automation, and other technological innovations may change the way we work, but they will never replace the need for human empathy, emotional understanding, and effective communication. This makes emotional intelligence an irreplaceable asset for companies seeking to stay ahead of the curve.

Conclusion

In conclusion, emotional intelligence is not just a buzzword but a driving force that can propel industries forward. From fostering effective leadership and building resilient teams to improving customer relations and shaping a positive work culture, emotional intelligence enhances nearly every aspect of organizational performance. As businesses continue to navigate a rapidly changing world, those that prioritize EI will have a distinct advantage inattracting talent, maintaining productivity, and ensuring long-term success. Whether in leadership or at the grassroots level, emotional intelligence is a catalyst for both individual and collective growth within industries—ultimately helping them thrive in the future.
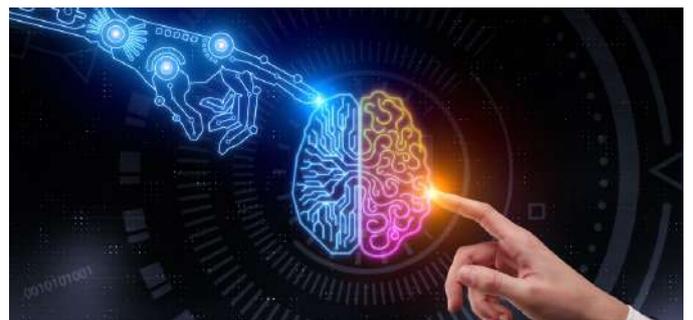
Bukhari Roslan
CEO of Maishince Academy,
Director Education of MIFA

MALAYSIA'S AI BOOM: INVESTMENTS, GOVERNANCE, AND LOCAL INNOVATION

Artificial Intelligence (AI) continues to be a pivotal driver of transformation worldwide. Malaysia is not merely keeping pace but positioning itself as a regional frontrunner—anchored by substantial investments, thoughtful policy design, and a growing drive for homegrown innovation. This edition spotlights how Malaysia is balancing ambition with accountability, and technological progress with national values.

Malaysia's AI momentum is underscored by significant investment: approximately RM 13.3 billion in AI-related projects were approved in the first half of 2025, expected to generate nearly 7,000 high-skilled jobs. The state of Johor stands at the epicenter, recently securing RM 164 billion in data centre initiatives. When operational, these facilities may account for nearly 80% of the nation's IT capacity, positioning Johor as a critical infrastructure and AI hub. These developments reflect deliberate efforts to cultivate digital competitiveness while anchoring new economic opportunities for Malaysian talent.

As AI capabilities accelerate, Malaysia's governance framework is evolving in lockstep. Central to this is the National Blockchain & AI Committee (NBAIC) under MOSTI, which shapes strategic direction and supervises the implementation of the National AI Roadmap 2021–2025. NBAIC coordinates cross-sector action, including drafting legislation and ethical guidelines.

We're proud to note that MIFA (Malaysian Industry Forwards Association) is an active participant in NBAIC—contributing to working groups on emerging policy, strategy, ethics, and ESG in AI governance. This involvement underscores MIFA's commitment to ensuring that infrastructure and financial stakeholders are part of shaping Malaysia's AI policy landscape.

By Q3 2024, 63% of the roadmap's more than 24 action items had been completed. The initiative has also contributed to Malaysia improving its ranking on the Oxford Insights AI Readiness Index—from 29th in 2022 to 23rd in 2023. Complementing this framework are the National Guidelines on AI Governance & Ethics (AIGE)—a voluntary yet robust framework aligned with UNESCO, OECD, and EU AI principles. These guidelines promote fairness, transparency, accountability, and human-centered design.

Malaysia is also carving out its own identity in AI innovation. A standout initiative is ILMU—a Malay acronym for Intelek Luhur Malaysia Untukmu—developed by YTL AI Labs in collaboration with Universiti Malaya. ILMU is Malaysia's first multimodal large language model, spanning text, voice, and image capabilities, thoroughly rooted in cultural and linguistic context. To encourage broader usage, ILMU is supported through the ILMU AI Accelerator, executed in partnership with MDEC.

The program provides startups and SMEs with RM 5 million in API credits, as well as infrastructure and talent facilitation support. This initiative is a strategic move toward building sovereign AI systems—ensuring Malaysia retains control over its data, innovation, and long-term digital sovereignty.
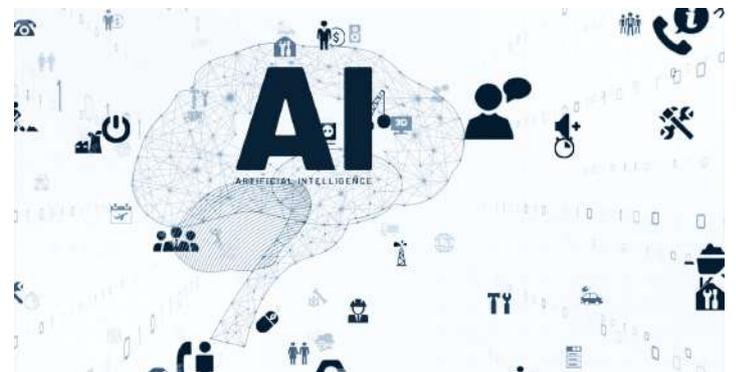
Bukhari Roslan
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While AI adoption grows, so do essential conversations about ethical usage. Recent surveys show that 89% of Malaysians now use AI in daily routines—up from 75% in 2024—highlighting rising expectations for transparency and safeguards. From an environmental standpoint, data centre growth raises concerns over energy consumption and carbon emissions. Nevertheless, sectors are responding with innovation. For example, YTL's Green Data Center Park in Johor, powered by a 500 MW solar farm, exemplifies a balanced approach to AI infrastructure development.

Beyond macroeconomic indicators, AI is already making a difference in everyday Malaysian life. In education, researchers have applied generative AI to create curriculum-aligned mathematics questions in Bahasa Melayu. This innovation supports teachers by automating assessment design, while ensuring alignment with the Malaysian syllabus. It reflects how AI can address local needs in language and pedagogy.

In healthcare, hospitals and startups in Malaysia are increasingly using AI for medical imaging, diagnostics, and patient monitoring. From assisting radiologists in detecting early signs of cancer to supporting predictive analytics in hospital resource planning, AI applications are improving both access and efficiency in the healthcare system.

Pilot projects have already shown promising results in reducing diagnostic time and enhancing accuracy in treatment pathways. These applications show how AI is not just shaping business and policy—it is becoming a practical tool that improves education, healthcare, and the quality of life for Malaysians.

Malaysia is at an inflection point—backed by strategic investments, guided by committee-led governance and ethics, and fuelled by domestic innovation. With NBAIC and MIFA playing central roles, and ILMU championing national capability, the AI journey here promises to be both dynamic and responsible. By navigating the interplay between progress, policy, and sustainability, Malaysia has the opportunity not just to participate in AI's future, but to help lead it—with integrity, inclusivity, and impact.

Ts. Mohamad Ariffin Zulkifli
Myinvent Technologies Sdn. Bhd.

CLOSING THE TALENT GAP: WHY EARLY EXPOSURE TO AIOT IS CRITICAL FOR MALAYSIA'S AMBITION

As leaders in Malaysian industry, our focus is perpetually on the horizon. We are navigating the complexities of national agendas like the New Industrial Master Plan 2030 (NIMP 2030). These roadmaps chart a clear course towards a high-tech, high-value economy. Yet, the most sophisticated strategies are only as effective as the people who execute them. This brings us to a critical question: Who will build, manage, and innovate the advanced systems that define our future?

The answer lies not just in upskilling our current workforce, but in strategically cultivating the next one from the ground up. The talent gap in emerging technologies is a direct bottleneck to our national ambition. To truly move forward, we must look beyond the factory floor and the university campus, and turn our attention to the foundational stages of learning.

The AIoT Imperative for NIMP 2030

At the heart of NIMP 2030's mission is the integration of technology to create higher-value economic activities. The Artificial Intelligence of Things (AIoT) is the engine for this transformation. For industry, this isn't about novelty smart homes; it's about intelligent factories, predictive maintenance that prevents downtime, and optimised supply chains that sharpen our global competitive edge.

To achieve this vision, we need a talent pipeline that is not only skilled but also inspired. This is where the Dasar TVET Negara 2030 plays a crucial role, aiming to produce a world-class technical and vocational workforce. However, a successful TVET system begins much earlier. We must first ignite a passion for technology in our youth, ensuring that when they enter vocational training, they do so with a solid foundation and a genuine interest in becoming the creators and problem-solvers our nation requires.

A Homegrown Solution to a National Challenge

As a Malaysian technology education company and a partner in this national journey, we saw this gap firsthand. We asked ourselves: how can we make the core concepts of AIoT accessible and exciting for the next generation? Our answer is the Myduino AIoT Education Kit.
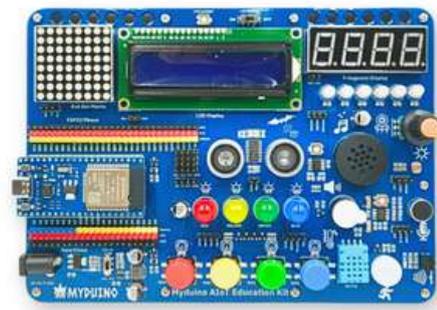
"The Myduino AIoT Education Kit provides a hands-on platform for students to transform coding and engineering concepts into tangible projects."

We developed this kit specifically to be a foundational tool that bridges the gap between primary education and the advanced skills required by industry and TVET programs. It packages the power of the ESP32 microcontroller, the same technology used in commercial IoT products, into an engaging, hands-on format. By enabling students to build practical projects, from simple sensors to complex smart systems, we achieve several critical objectives for our future talent pipeline:

1. **Make Complex Tech Tangible:** Abstract ideas about data and automation become real, building a fundamental understanding of how the digital and physical worlds interact.
2. **Cultivate an Innovation Mindset:** The kit encourages users to identify a problem and engineer a solution, nurturing the very critical-thinking skills our industries desperately need.
3. **Build a Pathway to Advanced Skills:** With a learning curve that scales from visual block-based programming to text-based coding, it creates a seamless pathway from beginner to aspiring professional.

Ts. Mohamad Ariffin Zulkifli
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The Long-Term ROI for Malaysia

Championing this kind of foundational tech education is not just a corporate social responsibility; it is a long-term investment with a clear return for all of Malaysian industry and the nation at large.

A student who learns to build a weather monitoring station with the Myduino AIoT Education Kit today is the TVET graduate who will design the predictive maintenance sensors for our manufacturing plants tomorrow. A child who programs a simple automated system for their room is the future developer who will optimize our logistics networks in line with NIMP 2030's goals.

By supporting these initiatives, we are directly investing in:

1. **A Deeper, Wider Talent Pool:** Creating a generation of Malaysians who are not just users of technology, but its creators.
2. **Strengthening the TVET Pipeline:** Sending more passionate, prepared, and capable students into vocational tracks that are critical for the industrial sector.
3. **Driving Local Innovation:** Supporting homegrown educational technology strengthens our entire national tech ecosystem.

A Call to Action for a Shared Future

The path to securing Malaysia's position as a high-tech, high-productivity nation is paved with talent. It is our collective responsibility as industry stakeholders to ensure that path is being built. By championing accessible tools like the Myduino AIoT Education Kit and supporting the broader STEM and TVET ecosystem, we are not just filling jobs, we are seeding the very innovation that will define Malaysia's future.

For industry leaders, educators, and organizations interested in exploring this foundational tool for STEM and TVET, more information on the Myduino AIoT Education Kit can be found at: https://myduino.com/product/myduino-aiot-education-kit/

Education & Training Secretariat Malaysia Industry Forward Association (MIFA)
www.mifa-4.my

FEEDBACK ON MALAYSIA AI READINESS ASSESSMENT REPORT FROM INDUSTRY PLAYERS' PERSPECTIVE – MALAYSIA INDUSTRY FORWARD ASSOCIATION (MIFA)

The Malaysia AI Readiness Assessment Report provides a comprehensive evaluation of the country's preparedness in adopting and scaling artificial intelligence (AI) technology. This feedback aims to offer insights from industry players, collated among members of the Malaysia Industry Forward Association (MIFA), in response to the report's findings. It highlights key strengths, existing gaps, and constructive recommendations for further improvement in Malaysia's AI ecosystem.

Among the key strengths identified in the report is the government's commitment and policy framework. The establishment of Malaysia's National AI Roadmap and supporting policies is commendable. Industry players acknowledge the government's proactive approach in setting a clear and strategic direction for AI adoption nationwide. The report also emphasizes the growing talent pipeline through initiatives aimed at enhancing AI-related skills. University programs and professional upskilling initiatives are crucial in driving workforce transformation, and their importance is duly noted by stakeholders

Another notable strength is the expanding AI research and innovation ecosystem. There is an increasing level of collaboration between universities, research institutions, and the private sector, which is positively contributing to innovation and the wider adoption of AI across multiple industries.Despite these advancements, industry players have identified several challenges and gaps that need to be addressed. One major concern is the limited AI infrastructure and computing power. Although cloud adoption is on the rise, Malaysia still lacks sufficient high-performance computing infrastructure necessary for large-scale AI deployments, particularly for startups and small and medium-sized enterprises (SMEs).

The issue of talent shortage and retention is also prevalent. While AI education efforts are ongoing, a significant gap remains between academic training and the practical needs of the industry.

Moreover, talent retention poses a challenge as skilled professionals often seek better opportunities abroad, leading to a brain drain in the AI sector. AI adoption among SMEs is also progressing slowly due to barriers such as high costs, limited awareness, and uncertainty regarding return on investment (ROI). In addition, industry players face difficulties in accessing quality datasets due to fragmented data policies and various regulatory constraints.

To address these issues, several recommendations have been proposed by industry stakeholders. First, strengthening AI infrastructure and providing better support for SMEs is vital. This includes investing in national AI computing facilities and expanding cloud computing solutions tailored for AI development. Funding schemes, grants, and subsidies should be offered to encourage AI adoption, particularly among SMEs that may lack the resources to invest on their own.

FEEDBACK ON MALAYSIA AI READINESS ASSESSMENT REPORT FROM INDUSTRY PLAYERS' PERSPECTIVE – MALAYSIA INDUSTRY FORWARD ASSOCIATION (MIFA)

Bridging the talent gap is another critical area. It is recommended that industry-academia collaboration be enhanced to better align AI curricula with real-world industry demands. Developing AI certification programs and implementing fast-track industry training initiatives would also help close the skills gap. Furthermore, to retain local AI talent, incentives such as clear career progression pathways and competitive remuneration packages should be introduced.

In terms of governance and data accessibility, the establishment of a centralised AI data-sharing framework is suggested. Such a framework would improve access to high-quality datasets while ensuring compliance with data security and privacy standards. Additionally, clearer regulatory guidelines are necessary to facilitate responsible and ethical AI adoption across various sectors.

Lastly, industry players emphasize the importance of driving AI adoption across industries. This can be achieved by conducting awareness campaigns and targeted training programs to educate SMEs on the benefits and applications of AI. Encouraging cross-industry collaboration is also essential in exploring innovative AI-driven solutions that support business growth and operational efficiency.

In conclusion, industry players recognize the significant progress Malaysia has made in terms of AI readiness, especially in policy development, talent cultivation, and research initiatives. However, addressing infrastructure limitations, improving talent retention, and fostering greater AI adoption among SMEs remain crucial next steps. A coordinated and collaborative effort between government, industry, and academia is essential to accelerate Malaysia's AI transformation and enhance its competitiveness on the global stage.
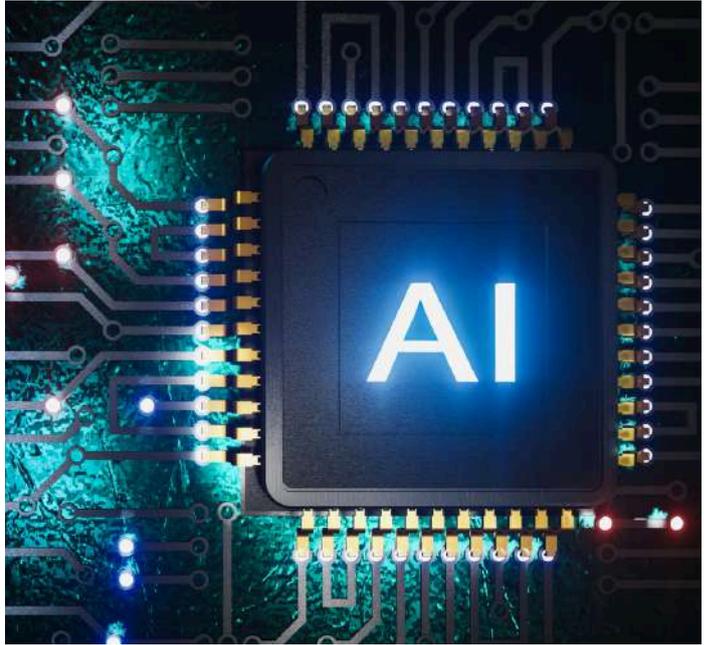
How Tze Koh

Koh How Tze is an author, speaker, futurist, and strategic business & technology advisor to companies and governments.

THE TRUTH ABOUT BITCOIN: WHAT THEY DON'T WANT YOU TO KNOW (IN JUST 2 MINUTES)

Bitcoin. You've heard about it, read headlines about millionaires, and maybe even wondered if you missed the boat. But what really is Bitcoin, beyond the hype? Let's break it down in less than 2 minutes — because understanding the world's first cryptocurrency might just change how you view money forever.

1. Bitcoin Is Digital Gold — But More Than Gold

Gold has been the go-to store of value for centuries. Bitcoin, however, offers something gold never could — borderless, permissionless, instant transactions. No central bank controls it, no government can seize it without access to your keys. It's money for the digital age, created by the people, for the people.

2. Bitcoin Doesn't Need Banks — It's Trustless

Traditional finance relies on banks and intermediaries to verify transactions. Bitcoin does this automatically through its blockchain — a decentralized ledger spread across thousands of computers worldwide. Every transaction is transparent and immutable, meaning no one can secretly alter it. Trust is no longer required. The code does the work.

3. Fixed Supply — The Ultimate Inflation Hedge

Central banks print money endlessly, weakening your purchasing power. Bitcoin? There will only ever be 21 million BTC — no more, no less. This built-in scarcity makes Bitcoin resistant to inflation in ways no fiat currency ever could be. Supply is capped, demand keeps growing — you do the math.

4. Bitcoin Is Energy — Stored & Transferred Value

Many see Bitcoin mining as wasteful, but in reality, it turns electricity into digital scarcity. Bitcoin miners secure the network while competing for newly minted BTC. This process gives Bitcoin real-world grounding — it's money backed not by governments, but by computational energy.

5. Bitcoin Is a Global Protest — Without a Leader

At its core, Bitcoin is a peaceful financial revolution. It gives individuals in oppressive regimes or unstable economies a way to store wealth, send payments, and escape capital controls — all without asking permission. It's the first truly global, decentralized financial network, and its power comes from people, not politicians.

How Tze Koh

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THE TRUTH ABOUT BITCOIN: WHAT THEY DON'T WANT YOU TO KNOW (IN JUST 2 MINUTES)

Building a people-centric environment that learns and grows together, collectively. Presentation deck for Institiute of Technology Malaysia (IEM) on People, Process, Technology.

Understanding the "Why" behind our actions is crucial. Visionaries are the ones who bring groundbreaking ideas to life—ideas that have the power to transform the world. Integrators play a vital role in turning these ideas into practical, workable solutions. Meanwhile, engineers act as the builders of tomorrow, creating the structures and systems that carry these ideas into reality.

When asking "What?", we must take a high-level view of what we can achieve as we formulate our future. It is important to remember that action without direction leads to disaster, while direction without action remains a dream. Both elements must go hand in hand to produce meaningful progress.

The "How" of it all lies in a structured and thoughtful approach. Technologies offer new hope, opening doors to innovation and improved quality of life. Policies are essential as they define the boundaries within which we operate, ensuring clarity and purpose. Compliance acts as the check and balance, helping us stay aligned with regulations, ethics, and sustainability goals.

At a glance, the future landscape is shaped by several key insights. We are living through a century of unprecedented technological innovation. Every step forward must align with global goals, where every achievement, big or small, counts. The concept of the True Wealth Hexagon reminds us that real prosperity includes access to food, energy, education, shelter, healthcare, and entertainment. Our journey toward sustainable development is guided by five essential pillars: People, Planet, Prosperity, Peace, and Partnership.

As we navigate this complex world, the ABCDE framework—AI, Blockchain, Connectivity, Data, and Ethics—serves as a compass. Sustainability is further understood through three dimensions captured in the S.E.E.D. model: Social, Environmental, and Economic Development. Finally, in business, true success is measured by the Triple Bottom Line: People, Planet, and Profit.

A Century of Technology Innovation
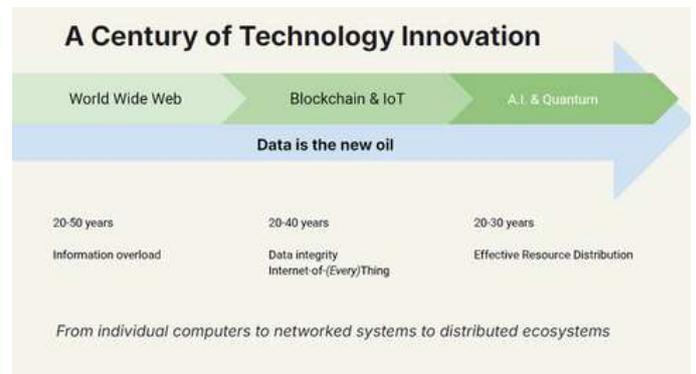
Every achievement matters in the pursuit of global goals. The best way to predict the future is to create it. We must begin with the end in mind, as clarity leads to power.

**How Tze Koh**

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THE TRUTH ABOUT BITCOIN: WHAT THEY DON'T WANT YOU TO KNOW (IN JUST 2 MINUTES)

There has never been a problem with the resources; The problems lie within distribution.
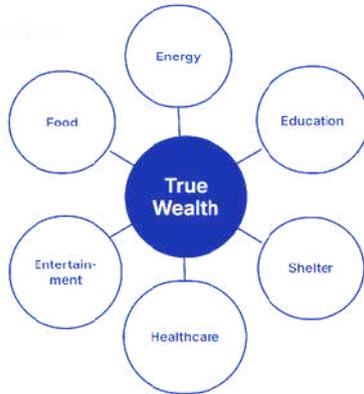
"The Earth has enough resources to meet the needs of all but not enough to satisfy the greed of even one person"~ Mahatma Gandhi

C L A R I T Y - Leads to Power Measurable goals drive impactful change.

Social Enterprise

Organizations that address a basic unmet need or solve a social or environmental problem through a market-driven approach

ABCDE The World

- A.I.
- Blockchain
- Connectivity
- Data
- Ethics

A.I. At A Glance

Features	Generative AI	AI Agents	Agentic AI
Purpose	Creates contents	Executes tasks	Makes decisions and adapts
Autonomy	Low - responds to prompts	Medium - follows commands	High - sets and pursues goals
Example	ChatGPT, Deepseek, content generators based on inputs.	Autonomous cars, automated factories, Siri, Alexa.	Intelligent trading, intelligent logistic and resource management

Further reading: https://cointelegraph.com/explained/what-is-agentic-ai-and-how-does-it-work
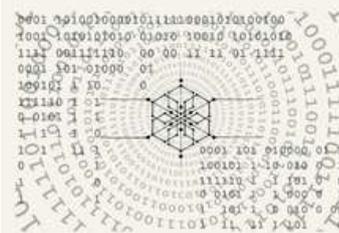
Blockchain

Technologically

Blockchain is a set of encrypted data blocks organized chronologically.

Financially

Bitcoin (Blockchain) is a digital native, programmable money with ULTIMATE SCARCITY - transparent, immutable, and auditable.

Distributed Ledgers - If you happen to have a platform that guarantees certain trust functions, one very useful application for that is to build a currency, and a payment network. *But you can build more things.*

Blockchain, Bitcoin, Money

TRUST and transfer of value.

An **A**I-driven, **B**lockchain-based **C**ognitive resource management system, powered-by **D**ata, **E**thically.

How Tze Koh

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ABCDE THE WORLD: PEOPLE, PROCESS, TECHNOLOGY.

Connectivity- Computer on wheels and everything.
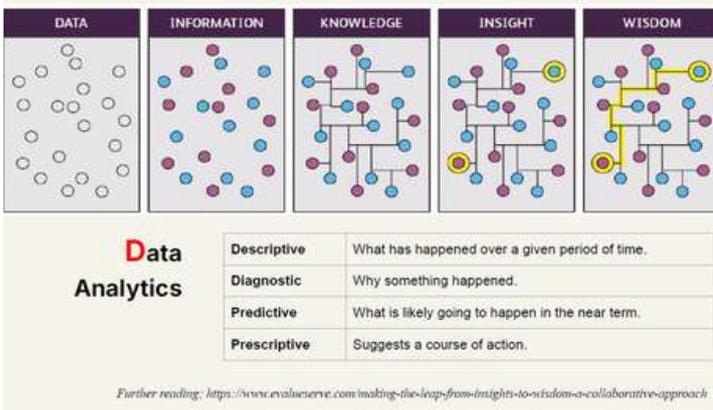
Ethics guide us in answering the question: where do we want to go today? The best way to predict the future is to create it. By beginning with the end in mind, we move with purpose—and with clarity, we gain the power to make lasting impact.

Sustainable development rests on three core dimensions: social, environmental, and economic. These elements must grow in balance to ensure long-term progress and well-being for all.

In the context of social business, a powerful idea emerges: a charity dollar has only one life, but a social business dollar can be invested again and again. As Muhammad Yunus reminds us, this creates a cycle of continuous impact. We are also reminded that we do not inherit the Earth from our ancestors—we borrow it from our children.

True business sustainability is measured through the triple bottom line: people, planet, and profit. Each must be valued equally to build a future that is not only successful, but also responsible.
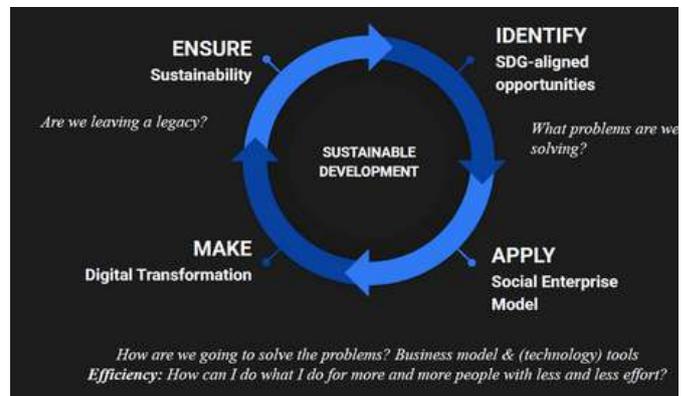
Abu Hanifah Haji Abdullah
Aerospace Safety Engineering and Management UniKL MIAT

REVIEW OF VTOL AIRWORTHINESS IN MALAYSIA

Introduction

This article explains the current development of special aircraft; drones and Vertical Takeoff and Landing (VTOL). The discussion is about the design, certification, production, and airworthiness of these special aircraft.

Definition of Aircraft

According to the dictionary Merriam-Webster, Aircraft is a vehicle for traveling thru the air. In Malaysia, aircraft is defined in the 1st Schedule of the Malaysia Civil Aviation Regulation (CAR) 2016.'

Aircraft are divided into lighter than Air (LTA) and heavier than Air (HTA) and further classified into power-driven and non-power driven. LTAs are free balloons, captive balloons, and Airships and the HTA is gliders, aeroplanes, rotorcraft, and ornithopters. These are the conventional aircraft that we always work with or at least we boarded these aircraft to travel to your intended destination.

Special Aircraft

Lately, Drone and Urban Air Mobility (UAM) have become increasingly popular. Drone or Unmanned Aircraft (UAS) are now being developed for transporting goods. The UAM, especially the Vertical Takeoff and Landing (VTOL) , is being developed around the world and is in the process of certification.

CLASSIFICATION OF AIRCRAFT

CAD 6011	:	Unmanned Aircraft System (General)
CAGM 6011	:	Unmanned Aircraft System (General)
CAD 6011 (I)	:	Remote Pilot Training Organisation
CAD 6011 (II)	:	Agricultural UAS Operations
CAD 6011 (III)	:	UAS Rotary Wing Swarm Operations
CAD 6011 (IV)	:	Standard Scenarios (STSs)
CAD 6011 (V)	:	Special UAS Project

Figure 2: List of CAD related to UAS in Malaysia

Those operating drones for dispensing pesticides and fertilisers must have an Aerial Work Certificate (AWC) and the pilots must have valid drone pilot licences after completed the training from Remote Pilot Trainings Organization (RPTO), in accordance with the CAAM Civil Aviation Directives (CAD) 6011 (I). Civil Aviation Directive 6011 Part (I) - Remote Pilot Training Organisation

Drones

How are these special types of aircraft being handled as far as the safety of vehicles and operations? Before we go further, let's discuss the definitions of these vehicles. The International Civil Aviation Organization (ICAO) regards these vehicles are aircraft. The Drone and UAS are Remote Pilot Aircraft (RPA) and by 2026 the RPA will be a certified aircraft. The ICAO Standards and Recommended Practices (SARPs), Annex 8 - Airworthiness of Aircraft has published the standards related to RPA, which consist of Remote Pilot Airplane (RPA), Remote Pilot Helicopter (RPH), and Remote Pilot Station (RPS). By publishing the standards in the ICAO, it means that the RPA will be eligible for Airworthiness Certification in accordance with the Chicago Convention 1944, Article 31 - Certificate of Airworthiness. Malaysia has published the regulation in MCAR 2016, that any unmanned aircraft above 20 kg must be approved by the Chief Executive Officer (CEO) of the Civil Aviation Authority Malaysia (CAAM). The CAAM has published several related regulations in Malaysia.
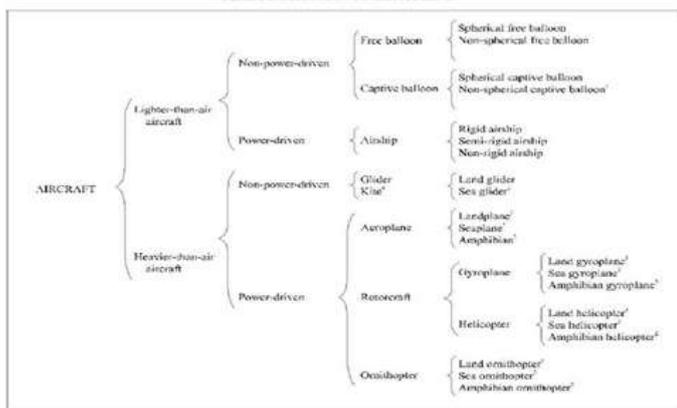
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# REVIEW OF VTOL AIRWORTHINESS IN MALAYSIA

UAM VTOL

Other than drones, the current special aircraft being developed around the world and also being introduced in Malaysia either from foreign design or even Malaysian companies are embarking into this. Most of these vehicles are for Urban Air Mobility (UAM) operations. These are also related to the previous thinking on flying cars. The flying car idea was introduced in 1946 and later NASA introduced the Personal Air Vehicle (PAV).

The flying cars and PAV are developed for air mobility but in slightly different solutions to the current problems of traffic congestion. The earlier flying cars were about flying to be as easy as driving a car, which can take off from the roads. The PAV is the beginning of the early concepts of personal mobility and connectivity, from home to small airports and continuing boarding passengers airliners, this will reduce the traffic congestion. But the UAM is more of relieving the city congestion with a clean electric engine.

Airworthiness

Aircraft must be airworthy for flight and must have a valid certificate of airworthiness before are able to sell tickets to passengers. How airworthiness is defined and how the world prescribed aircraft airworthiness? The aviation standards are developed by the International Civil Aviation Organization (ICAO) and airworthiness is one of the standards published as Standards and Recommended Practices (SARPs). The basis of the SARPs is the Chicago Convention 1944, Article 31 - C of A. Annex 8 - Airworthiness of aircraft is the standard for aircraft airworthiness. Malaysia CAAM adopted and adapted Annex 8 to CAAM CAD 8 carries similar title Airworthiness of Aircraft.

Airworthy aircraft is the aircraft that comply with the design and are in condition for safe operation. Comply to the design is when the aircraft complies with the aircraft certification basis established during the aircraft Type certification (TC). The details of aircraft CB is written in the TCDS.
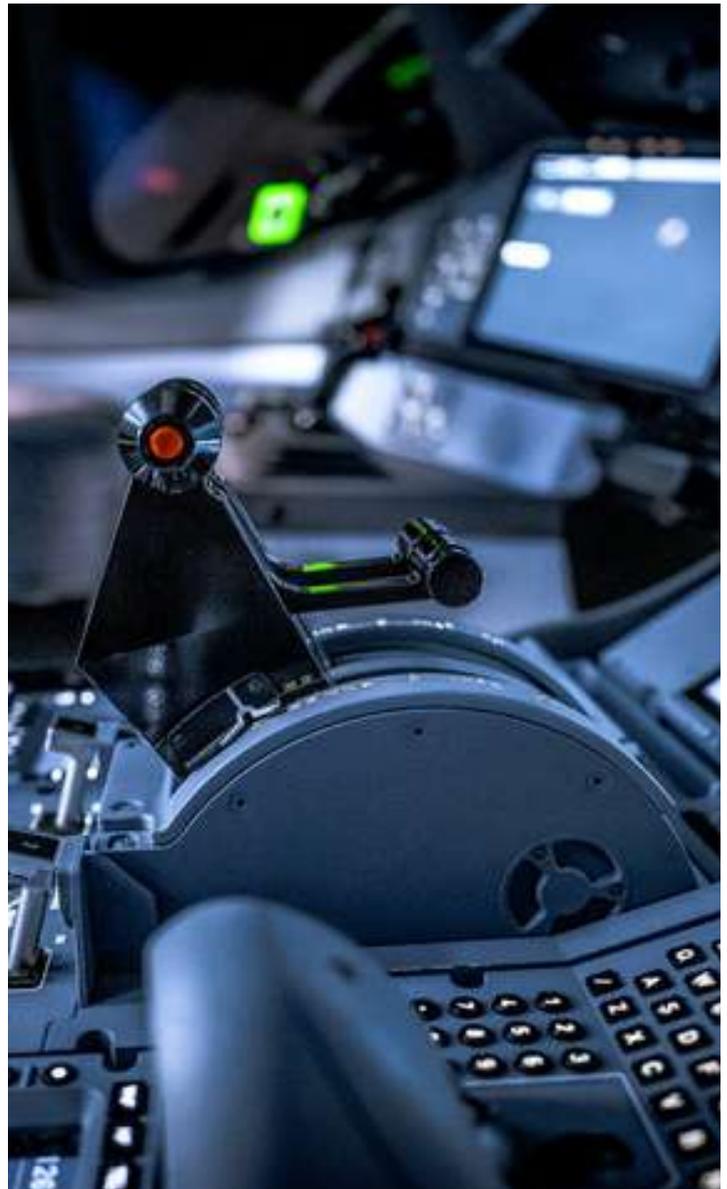
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DRONE FOR CIVIL ENGINEERING ACTIVITIES

2022, SEP, 18 (SUNDAY)

Background

Unmanned Aircraft systems (UAS) or Drones becomes essential equipment for many industries. Civil Engineering engineering activities have benefited from using drones. The UAS has saved costs, add value, and created new technology for civil engineering.

Challenges

The UAS systems have evolved and some were developed in isolation from civil engineering. The current UAS technology development is more of a platform. However, civil engineering activities need to choose the appropriate platform for their activities. The best is for the civil engineers to work together with the UAS designers to establish the efficient UAS platform most suitable for civil engineering activities.

The new regulations, which UAS will be certified from 26th November 2026, may cause disruption in the UAS operation unless the companies are prepared for these regulatory changes.

Opportunities

The Civil Engineering consultancies company may explore developing, operating, and maintaining a customized UAS for civil engineering activities, which has not been done by many civil engineering consultants company. For example, the agriculture drone has been customized for dispensing fertilizers and pesticides. These activities will require an additional competency over the basic drone pilot license.

Strategies

Civil consultant companies need to establish a strategy to be the developers, operators, and maintenance of customized civil engineering drones.

The potential activities are;

- Roadway Assessment.
- Culvert/Bridge Inspections.
- Streambank/Steep Slope Access.
- Park and Open Space Aerial Imagery.
- Water Tank/Standpipe Inspection.
- Building/Roof Inspection.
- Treatment Plants.

The company may apply the current grants for the development of customised drones for civil engineering activities.
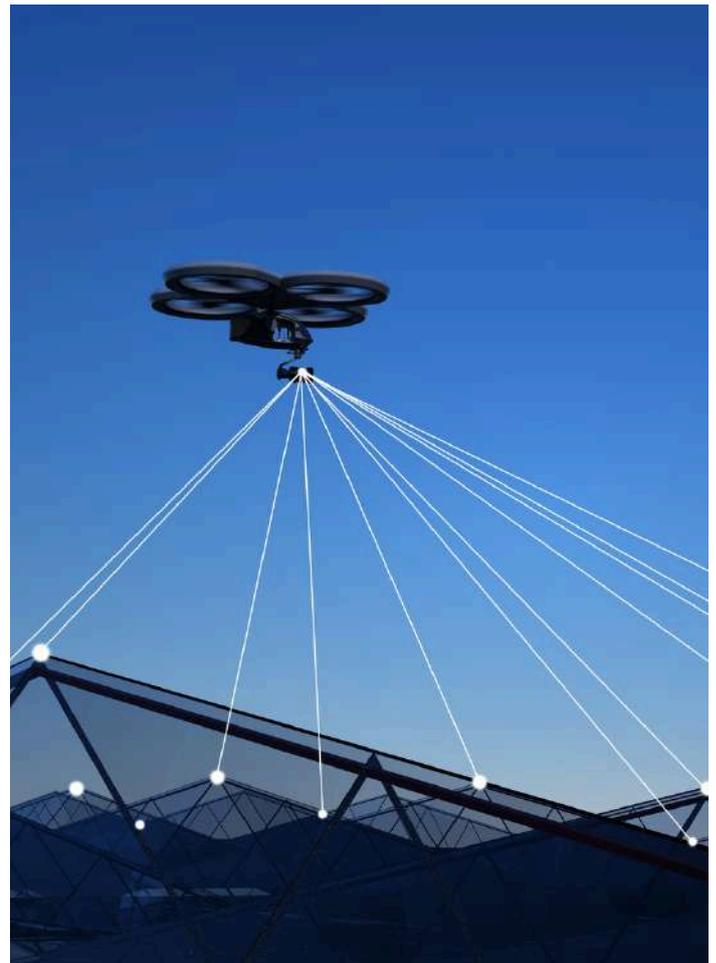
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ASEAN MEMBER STATES' 'EFFECTIVE IMPLEMENTATION' (EI) SCORE

All ASEAN members' states are members of the International Civil Aviation Organization (ICAO). The state's members to ICAO are defined as contracting states, which are required to adopt and adapt ICAO Conventions' Articles and Standards and Recommended Practices (SARPs). The ICAO published the SARPs into 19 Annexes.

Even though ICAO mandating compliances to the SARPs are mandatory, the members' states are still allowed not to comply, partially comply or compliance with other means. For those states, they must file the differences with the ICAO by formal notification and the differences will be published in the ICAO documents. With this approach, gaps may exist between ASEAN members states on compliances to the ICAO Articles and SARPs.

For the ASEAN Aviation to be integrated as a single entity, these gaps must be studied and determined. ASEAN members states must agree on the highest available standards. However, it is not easy to change members' states legislation since it is the state sovereignty which should be respected, and the ICAO acknowledged the sovereignty of the states in the Articles.

With the formalization of ASEAN Open Skies policy came into effect on January 1, 2015, which is also known as the ASEAN Single Aviation Market (ASEAN-SAM), ASEAN members states must work to close the gaps to ensure the effectiveness of the ASEAN-SAM.

Before working to close the gaps, the gaps must be identified and the risk due to the gaps must be determined. These gaps may derailed ASEAN-SAM, especially in aviation safety.

The gaps can be studied from the ICAO data on the results of the USOAP audits of the members' states Effective Implementation (EI) of the SARPs. The summary of the score in term of effective implementation is published interactive in the website for the ICAO's Universal Safety Oversight Audit Programme (USOAP).
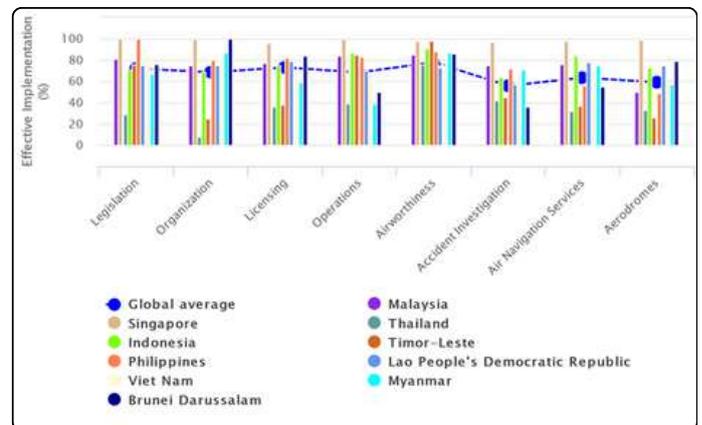
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BIRD STRIKE OF PROPELLER

Posted on Twitter dated 4th January 2022 at 10:49 pm under the Twitter account Fabricio Darosci Jr, A SA Airlink Jetstream JS-41, reg ZS-NRJ performing a charter flight from Johannesburg to Venetia Mine (SA), was on approach when a bird impacted the right-hand propeller causing one of the blades to separate and penetrate the cabin. While the aircraft sustained substantial damage, none of the passengers or crew were injured. The aircraft continued for a safe landing.

This is the case of a "serious incident", which the ICAO defined as "An incident involving circumstances indicating that there was a high probability of an accident "An accident is defined as "An occurrence associated with the operation of an aircraft ..., in which:
a) a person is fatally or seriously injured ...
b) the aircraft sustains damage or structural failure
c) the aircraft is missing or is completely inaccessible

For this case, no serious injury or fatality, however, there was significant structure damage, where the blade penetrated the cabin when the propeller blade bokeh off after being impacted by birds.

This propeller and aircraft have been designed and certified to the technical standards in accordance with the ICAO Annex 8 and these technical standards have been translated into the country regulations i.e FAR Part 35 or CS P for Propeller and the aircraft has been designed to FAR Part 25 or EASA CS 25 or JAR 25 Large Aeroplane.

The aircraft design and certification standard or airworthiness requirements published in FAA FAR Part 25 published three paragraphs related to propeller failures 25.631, and 25.875. The condition in FAR Part 25, the propeller must have a "Type Certificate (TC)", refer to the FAR Part 25.905. It means the design and certification requirements must have been fulfilled, and the propeller must be able to withstand the "Bird Impact".

The FAR Part 25.631 has required the empennage structure to withstand 8 Lbs bird impact which is a 3.6 Kg bird. FAR Part 25.875 "no windows near propeller", for ice impact.

The INTERNATIONAL CIVIL AVIATION ORGANIZATION, Annex 8 - Airworthiness of Aircraft, Twelfth Edition, July 2018 does not provide specific requirements on bird strike for the propeller but it has requirements for the protection of occupants from bird strike when designing the fuselage structure.

There was no injury to the occupant because the aircraft is designed with the requirement of installation to minimise the hazards to the aeroplane when the propeller failed, refer 25.905.

A Risk based design approach may be able to address these issues in detail.

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STEP UP OR STEP ASIDE

Introduction

SME Corp has categorised the businesses into Micro, Small, and Medium depending on the Sectors, sales turnover and number of employess[1].
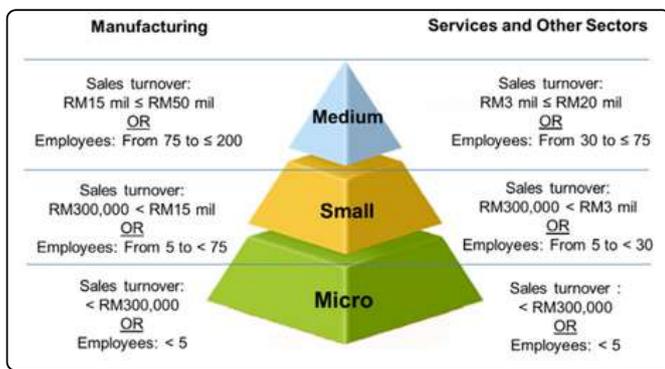
These segments of industry contribute approximately 30% of the Malaysian economy. The contributions, which could not be ignored.

Some of these companies have been around for many years and even have been inherited from their parents and grandparents. Their resilience in doing business should be respected, which may be the strength for them to expand or diversify their business. However due to busy business commitments, they have not got the time to reflect upon themselves. Furthemore, they do not have the time and resources to participate in the training and workshop for the current business process and management, resulting in lack of competency to plan and implement business expansion or diversification.

This article provides a step by step guide in planning and implement the business expansion and diversification by covering the followings;

- Business data analytics
- Change Management
- Environmental analysis
- Determination of change drives
- Contextual of change
- Change design choice
- Cultural analysis
- Change model
- Review and develop organisation structure framework
- Project management of change
- Innovation management

The above topics will be discussed in the easiest language leaving all the complicated jargons. This article will also be the materials for coaching the industry towards expansion and diversification. The title Step Up or Step Aside means the company Step Up to expand and Step Aside to diversify.

Business Data Analytics

Nowadays Data is the tool for making business decisions because the data is the facts of the situation. The Data will explain the business performance and business problems. The current concept of Business Analytics is where the data will be used to explain the current situation (Descriptive), the future (Predictive) and the solutions (Prescriptive). The theory is simple but the implementation is tricky. This is the other areas, where the industry lack of resources to acquire the data and analysis for the business decisions.
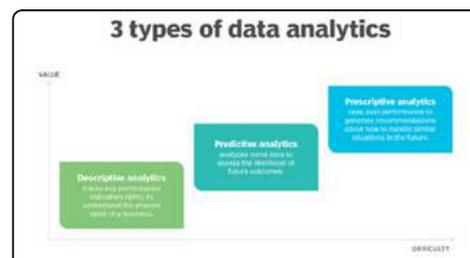
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STEP UP OR STEP ASIDE

Business Data Analytics
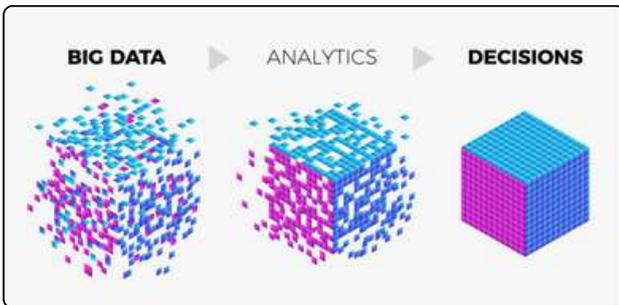
Once the data is clean then the process of the Descriptive, Diagnostics, Predictive and Prescriptive can be done. Good data is very critical because wrong data will easily give wrong results and wrong decisions.
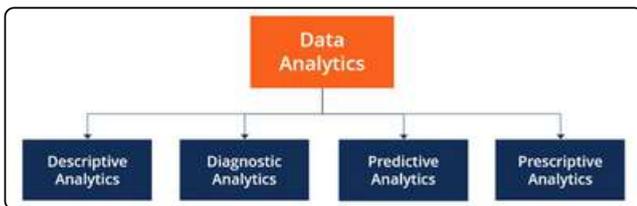
The challenges with the industry is the data collected are not aligned toward Business Analytics and these data are not centralised and used specific for a purpose without any consideration of data linking. Therefore, the first step in working with the company is to establish the availability of the data, their location, determine the required data for the analysis and determination on how to integrate them.

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POTENTIAL OEM OF THE AGRICULTURE DRONE
2022, SEP, 15 (THURSDAY)

Agriculture drone operation requires the Aerial Work Certificate (AWC); private and commercial, which is one of the pre-requisite with the drone to be airworthy, refer to CAAM CAD 6011 Part (II)

Agriculture drone operation requires the Aerial Work Certificate (AWC); private and commercial, which is one of the pre-requisite with the drone to be airworthy, refer to CAAM CAD 6011 Part (II)
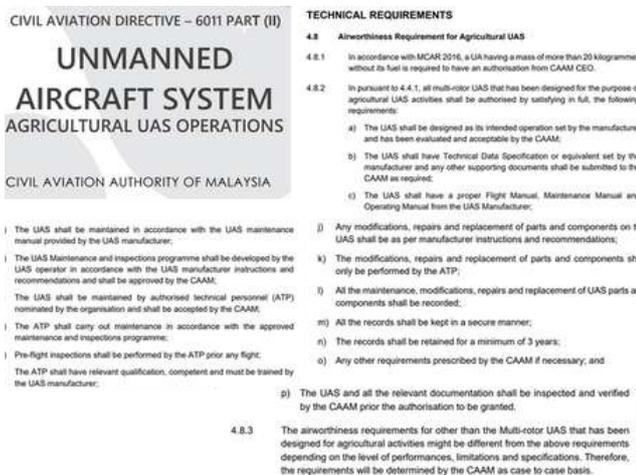
The note requires the AWC applicants to ensure "controllability" and "mechanical resistance", of the UAS when flying within operational limits. This requirement requires a flight test, which is close to some form of certification.

If we have done the initial design, analysis, and test of an agriculture drone, which means we have the type design, and we may qualify as the OEM. The AWC holders must use OEM drones, privately built drones are no longer acceptable. The OEM shall provide all the required documents (Flight Manual, Maintenance Manual, Operating) and support (modification, Repair) for the drone's airworthiness.

Why can't we be the OEM; design and built drones customized to our agriculture operations on Paddy fields, palm oil estates, pineapple farming, etc?

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SHARING EXPERIENCE AS AIRCRAFT ACCIDENT INVESTAGOR IN STRUCTURE GROUP

Investigators are divided into groups depending on their expertise. The formation of the group in is based on the size and scope of the investigation. Structure Investigation Group (SIG) will be formed once the accident or serious incident may relate to structure failures. The details tasks of the team and checklist of the activities are provided in the ICAO Document 9756 (Manual of Aircraft Accident and Incident Investigation).

The following are the excerpt from the manual:
Event Task of Aircraft Structures Group - Refer to ICAO Doc 9756. The Structures Group is responsible for collecting and analysing the facts and evidence related to the airframe and flight controls.

If the wreckage is scattered, the Group's first concern is to locate and identify as many sections, components and parts as possible and to plot their positions on a wreckage distribution chart. For the debris found not in the crash site. Identification of whether the parts are from aircraft is mandatory. Some debri washed ashore are suspected an aircraft part but some are not. Once identified as aircraft parts, then next to identify the

A reconstruction of the aircraft structure may be necessary, and this task could vary from laying out various pieces of wreckage on a flat area to the more complicated re-assembly of all available pieces in position on a framework.

This procedure is most often used for in-flight break-up, in-flight fire and explosion type accidents.

The main purpose of such a reconstruction is to identify the point of initial failure and to establish the progression of the break-up pattern. Close cooperation with the Site Survey Group is usually required.

EVENT 13. Examination of structures

1. Conduct an overall examination of the complete airframe, including the flight control surfaces;

2. Determine the involvement of the structure in the accident;

3. Select the components that require examination and testing;

4. Prepare detailed statements of requirements for examination and testing; and

5. Assess the requirements for wreckage reconstruction.

EVENT 27. Fire and explosion (Event 13 refers)

1. Photograph all evidence having a direct bearing on the fire before the wreckage is removed;

2. Review maintenance and parts manuals to gain information on the aircraft structure and systems;

3. Review the following information:
– Survivor statements;
– Eyewitness statements;
– Type of cargo carried;
– Quantity and type of fuel on board;
– Air traffic services recorded data;
– Flight recorders information; and
– Pathological information for evidence of smoke or soot in the respiratory system, carbon monoxide or other toxic chemicals, and indications of in-flight explosion such as ruptured eardrums or penetration by small fragments.

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SHARING EXPERIENCE AS AIRCRAFT ACCIDENT INVESTAGOR IN STRUCTURE GROUP

Structures Event 13 27 49 60 65

EVENT 27. Fire and explosion (Event 13 refers)

4. Determine the requirements for expert technical assistance;

5. Prior to removal of fire extinguishing agent, consider all options in order to reduce destroying evidence;

6. Complete a wreckage diagram including burned areas;

7. Determine if the fire was in-flight or post-impact by reviewing the following:
– Survivor and eyewitness evidence;
– Cockpit configuration;
– Mishap circumstances;
– In-flight fire effects;
– Ground fire effects;
– Crash dynamics, such as location of burned parts with respect to burn areas; and
– Impact effects.

8. Determine if there was an in-flight explosion by the presence of:
– Omnidirectional fire pattern;
– "Opening up" effect;
– Unusual damage to heavy structures;
– Fragmentation of structures; and
– High-speed penetration by fragments.

9. Reconstruct the area where the in-flight fire or explosion is suspected; and
10. Determine the point or area of origin, fuel type and ignition source.

EVENT 60. Analysis and report of the Structures Group (Events 13, 27, 41 and 49 refer.)

1. Review, evaluate and analyse all information collected; and

2. Prepare and submit the group report to the Investigator-in-charge.

EVENT 49. Wreckage reconstruction (Events 13, 27 and 41 refer.)

1. Select a suitable re-assembly area;

2. Determine the method of reconstruction;

3. Obtain the personnel and material resources;

4. Complete the reassembly;

5. Photograph the re-assembly operations;

6. Interview witnesses; and

7. Select components for examination and testing, if required.

EVENT 65. Technical analysis and findings

1. This event should be chaired by the Investigator-in-charge with the following group chairpersons attending:
– Maintenance and Records;
– Systems;
– Structures;
– Powerplants;
– Site Survey;
– Photo/Video; and
– Other parties, as dictated by local regulations and procedures.

2. Review all group findings to determine adequacy of information, areas of conflict, errors and inconsistencies;

3. Identify the areas requiring clarification;

4. Determine the procedure for achieving clarification;
5. Complete the technical analysis and determine findings with assistance from the operations groups;

6. Identify safety hazards and deficiencies; and

7. Suggest safety recommendations.

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REVIEW OF UAS TYPE CERTIFICATION (TC) IN MALAYSIA

Background

The Unmanned Aircraft System (UAS) or Remote Pilot Aircraft System (RPAS) increasingly becomes the essential equipment in aerial businesses; mapping, survey, surveillance, agriculture dispensing, and transporter. The ICAO has published the technical standards for the Remote Pilot Aircraft (RPA), Remote Pilot Helicopter (RPH), and Remote Pilot Station (RPS), which will be effective from 26th November 2026[1]. These technical standards appear in "ICAO Annex 8 - Airworthiness of aircraft". Once the technical standards are in Annex 8, the Remote Pilot Aircraft (RPA), Remote Pilot Helicopter (RPH), and Remote Pilot Station (RPS) are eligible to be issued with a Type Certificate (TC), which is the pre-requisite for Certificate of Airworthiness (C of A). The ICAO has considered that the drone is an aircraft and it has been also identified as Remote Pilot Aircraft System (RPAS). The RPASs are expected to fly in the airspace operated by manned aircraft such as the aircraft operated by airlines. CAAM has been following the UAS, RPAS, development and published several directives, CAAM CAD, on the UAS and also published the requirement for the UAS pilot licensing. This legislation provides opportunities for UAS or RPAS industry development, especially on the certified UAS.

UAS Certification Status

Several countries around the world, especially the USA, have issued Restricted Type Certificates (RTC) for the UAS. The USA FAA has issued two TC for the UAS;

1. ScanEagle X200 and
2. AeroVironment, Inc. Model Model PUMA AE.

The ScanEagle X200 weighs 44 lb (19.96 kg) and the AeroVironment, Inc. (Model Model PUMA A) weighs 15.5 Lbs. There is the need for the RTC and Special Airworthiness Certificate because some of these UAS operate in civil airspace, for example, the ScanEagle X200 is used to inspect railroads.

Certification Process

The certification of the UAS is similar to the aircraft. It begins with the development of the Certification Basis (CB), one of the elements of the CB is the airworthiness requirements. There are already several airworthiness requirements developed by JARUS; CS-UAS, CS-LURS, CS-LUMRS, and CS-LUAS. In the FAA system, the airworthiness requirement may fall into the Primary Category, where the applicant will propose the required airworthiness requirements. The MCAR Regulation 25 allows the CEO of the CAAM to accept the applicant's application of any airworthiness codes published by the ICAO member states. Most of the airworthiness requirements were based on the ICAO Annex 8, and compliance with these technical requirements will be audited by the ICAO. The CAAM has adopted and adapted the ICAO Annex 8 and published as a directive, CAAM CAD 8. The aircraft C of A is issued based on the ICAO Annex 8.

CAAM is no different than the rest of the world. It may differ from the USA on the design and certification process because CAAM follows EASA practices, where the design and certification to be carried out by the approved design organization in accordance with the subsidiary legislation CAD 8401 - Design Organisation Approval (CAAM Part 21 Subpart J) and manufacturing by the company with the production approval in accordance with the CAD 8201 - Production Organisation Approval (CAAM Part 21 Subpart G). The application for the design organization approval has provision for large and medium/small UAS, which means the company may apply for UAS design and certification and become the product approval holders as Type Certificate (TC). The CAD application for the TC had also given the provision to apply for Restricted Type Certificate (RTC). The RTC issued, when the airworthiness requirement in the CB is not in the ICAO Annex 8. The Malaysian legislation has provided the industry to apply for RTC, which is the pre-requisite for C of A for the UAS.

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REVIEW OF UAS TYPE CERTIFICATION (TC) IN MALAYSIA

Strategy

There are still no companies in Malaysia that see this as an opportunity for new business. Most companies involved in the drone business were not established from aviation industry. Therefore, those companies do not have exposure to aviation business operations; or aircraft airworthiness. It is best for any Malaysian company to be leading this industry. The company may apply for

1. DOA - design new UAS, modification and repair existing UAS
2. POA - production of UAS and issue an export airworthiness certificate

Then, the company may apply for RTC of a drone model.

Process of Application

The Malaysia Civil Aviation Regulation (MCAR) 2016, Regulation 21, requires all the organizations intended to design aircraft to be approved as a design organization. The applicants' company must be a registered as Sdn Bhd.

The company must establish the structure required by CAD 8401 - Design Organisation Approval (CAAM Part 21 Subpart J). The organization must have a minimum staff; Chief Executive Officer (CEO), Head of Design Organization (HoDO), Head of Airworthiness (HoA), Head of Independent Monitoring (HoIM), and a person to manage the projects. The CEO, HoDO, HoA, HoIM are post holders, they have to individually fill up form CAAM/AW/0104-00 280621 - DETAILS MANAGEMENT PERSONNEL (CAAM FORM 4). The company also must have Safety Management System (SMS) in place.

The company must submit an application for design organization approval using CAAM/AW/8401-01 010419 - Application for Design Organisation Approval (CAAM Part 21 Subpart J) - Issue and Renewal (Civil Aviation Regulation 2016). There are two options for the scope of approval; 1A Large UAS and 1B Small/Medium UAS. The weight and size of the Large, Medium, and Small are not clearly defined; it will be decided upon discussion with the CAAM.

The applicant may also opt for the scope for STC, modification, and repair of UAS. Once the application satisfies the CAAM, the company will be issued with provisional approval. During this period the company will implement the system written in the Design organization Exposition (DOE) and ensure the system is workable and if not, some adjustment is required before the approval issues by the CAAM. During this period any activities are acceptable for product certification, except the company is not allowed to release the design data without the consent or approval of the CAAM.

Once the provisional approval is attained, the company will be able to apply for TC or RTC in accordance with the CAAM CAD 8102 - Type Certificates and Restricted Type Certificates (CAAM Part 21 Subpart B). The application must include a three-view drawing of that aircraft and preliminary basic data, including the proposed operating characteristics and limitations.

The company shall develop the product specifications, which define the UAS technical definitions; configurations, size, dimensions, and the performance of the vehicle. These product specifications should be based on customers' requirements or expectations of customers or introducing technology to the customers. The next step is to have an initial discussion with CAAM to establish the Certification Basis (CB) of the UAS. Once the CB is concluded, the next process continues with the detailed design, analysis, and test. At the same time, the DOA has to declare and show compliance with the Certification Basis (CB). Showing and declaring compliance to each airworthiness requirement by engineering analysis, and testing may involve the participation of the CAAM. The CAAM may also be involved in the review and approval process, review the test plan, witness the test and approve the test report. These declarations of compliance are recorded in compliance checklist documents, which is one of the types of design documents for the Type Certificate (TC).

Conclusion

The author is prepared to assist any companies in realizing to be product holders or TC Holders of UAS to be exported around the world.

IOT SATA SDN BHD
www.iotsata.com

# INTEGRATED DIGITAL METERING SYSTEM

We've taken a bold step forward in digital transformation at Kemaman Supply Base by replacing over 700 analog meters with state-of-the-art smart electric meters — covering single-phase, three-phase direct, and three-phase CT types.

With this upgrade, what used to be a time-consuming, error-prone manual process has now become fully automated, accurate, and real-time. Gone are the days of technicians jotting down readings at each meter and clients waiting until the end of the month for billing. Today, the system not only captures energy data every 30 minutes but also automatically generates transparent monthly bills with unmatched precision.

The smart meters are wirelessly linked to a powerful cloud-based monitoring system, giving users instant access to voltage, current, power consumption, and maximum demand data anytime, anywhere. Beyond monitoring, the system instantly alerts users to leakages or power trips, and even pinpoints hidden electrical issues such as reverse CT clamps. As a result, the site's electrical facilities are safer, smarter, and more reliable than ever before.

Perhaps the biggest leap is in how data is managed. By consolidating everything into a scalable, secure cloud database, the client now has a single source of truth for all meters and customers. Even better, this data is accessible worldwide — enhancing client trust through transparency and setting a new benchmark for energy management.

Overcoming challenges such as long distances between meters, huge volumes of incoming data, and network stability across the vast site was no small feat. Yet, the project was delivered successfully, transforming a major operational pain point into a cutting-edge solution — and setting a strong foundation for the future of smart energy at Kemaman Supply Base.
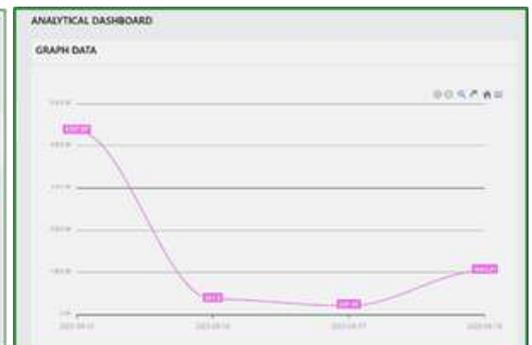
MIFA EVENT PLANNER 2025

01 January

5G Seminar @ ADTEC Melaka
Women in AI Dialogue
MIFA–Operion MoU
MIFA–GITC MoU on TVET
Meeting with MOSTI Tech Division

02 February

MIFA @ Gen MADANI 2025 Peluncuran & Gen MADANI KPM 2025

03 March

MIFA–MIGHT Strategic Meeting
Madani Digital Trade Launch

04 April

MIFA @ Automotive Digital Forum
MIFA Proposes STEM Carnival
MIFA x IDE: Training Talk

05 May

AI Training for Law Enforcement

06 June

MIFA Joins TVET Day 2025
MIFA–ADTEC Kulim Upskilling

07 July

MIFA x FULLER IMPACT: ESG & Digital
Digital Garment Craft for Seniors
MIFA Technopreneur Lunch
MIFA–Perlis MB Meeting
MIFA–PKB Collaboration
MIFA x MOSTI: Industry Insights

08 August

Launch of MIFA In Action Issue 6/2025
International Smart Manufacturing Forum & Exhibition 2025

09 September

MIFA MoU signing ceremony with UPM, UNIMAPSAS, UIA, UTeM

10 October

MIFA Exco Gathering

11 November

MIFA 100 Biz Club Retreat

12 December

Launch of MIFA In Action Issue 7/2025

NO	TRAINING TITLE	DAY(S)	PRICE (RM)

PROGRAMMING LANGUAGES

NO	TRAINING TITLE	DAY(S)	PRICE (RM)
1.	JAVA	3	2,500
2.	PYTHON	3	2,500
3.	JSON	3	2,500
4.	NODE-RED	3	2,500
5.	R LANGUAGE	3	2,500
6.	FLUTTER PROGRAMMING	2	2,700
7.	JAVASCRIPT	5	2,600
8.	HTML5	2	1,500
9.	CSS3	2	1,500
10.	TYPESCRIPT	3	1,800
11.	JAVA – Entry level Java Programmer: JAVA SE7 Fundamentals	5	3,400
12.	JAVA – Professional Programmer: JAVA SE7 Fundamentals	5	3,400
13	JAVA - Servlet & Java server Pages (JSP) Developer	5	3,400
14.	PHP – Beginner to Intermediate	5	2,600
15.	PHP – Oriented Programming (OOP)	5	2,600
16.	PHP 7 Programming	5	2,600
17.	COLDFUSION – Beginner to Intermediate	5	2,600
18.	COLDFUSION - Advanced	5	2,600
19.	C# - Programming C# with Microsoft Visual Studio	5	2,600
20.	R Programming	4	2,200
21.	Secure Programming	5	2,600
22.	Unit Testing Programming	5	2,600
23.	LUCEE	5	2,600

ROBOTICS AND AUTOMATION TRAININGS

NO	TRAINING TITLE	DAY(S)	PRICE (RM)
24.	PROGRAMMABLE LOGIC CONTROLLER - SIEMENS	3	3,900
25.	PROGRAMMABLE LOGIC CONTROLLER - MITSUBISHI	3	3,900
26.	PROGRAMMABLE LOGIC CONTROLLER - OMRON	3	3,900
27.	PROGRAMMABLE LOGIC CONTROLLER - PANASONIC	3	3,900
28.	PROGRAMMABLE LOGIC CONTROLLER – SCHNEIDER ELECTRIC	3	3,900
29.	PROGRAMMABLE LOGIC CONTROLLER - ABB	3	3,900
30.	INDUSTRIAL HMI	2	2,600
31.	SCADA SYSTEM	5	6,500
32.	ADVANCE PLC, HMI & SCADA SYSTEM	10	11,700
33.	ROBOTIC AUTOMATION	5	6,500
34.	ROBOT OPERATING SYSTEM (ROS)	3	4,700
35.	ARM CONTROLLER & IOT PROGRAMMING	3	3,500
36.	SCARA ROBOT (SELECTIVE COMPLIANCE ARTICULATED ROBOT ARM)	3	5,800
37.	PLC & IOT (PROGRAMMABLE LOGIC CONTROLLER)	3	3,500
38.	LINEAR ROBOT	2	4,500
39..	AUTONOMOUS MOBILE ROBOT	3	4,500
40.	MOBILE ROBOT DEVELOPMENT	3	5,700

INDUSTRY 4.0 – IOT & IIOT TRAINING

41. FUNDAMENTAL OF INDUSTRY 4.0 & INTERNET OF THINGS (IOT)	3	3,500
42. IOT FOR SMART AGRICULTURE	3	3,500
43. IOT FOR SMART CITIES	3	3,500
44. LORA-WAN TRAINING	3	3,500
45. IOT WITH RASPBERRY PI (NODE-RED)	3	3,500
46. IOT WITH RASPBERRY PI (PYTHON)	3	3,500
47. IOT WITH RASPBERRY PI & FAVORIOT	3	3,500
48. BASIC INDUSTRIAL INTERNET OF THINGS (IIOT)	3	3,500
49. ADVANCE INDUSTRIAL INTERNET OF THINGS (IIOT)	5	4,850
50. BASIC INDUSTRIAL INTERNET OF THINGS (IIOT) WITH SIMATIC GATEWAY – CERTIFICATION FROM SIEMENS	3	4,600
51. ADVANCE INDUSTRIAL INTERNET OF THINGS (IIOT) WITH SIMATIC GATEWAY – CERTIFICATION FROM SIEMENS	5	6,500
52. ARDUINO & IOT PROGRAMMING	3	2,700
53. RIG : IOT ALL IN ONE	3	4,500
54. **UNLOCKING THE POTENTIAL OF INDUSTRY 4.0: A PRACTICAL TRAINING APPROACH**	2	2,500

INDUSTRY 4.0 - CLOUD COMPUTING & BIG DATA TRAININGS

55. CLOUD COMPUTING FOUNDATION	3	3,500
56. DATA SCIENCE FOUNDATION	3	3,500
57. BIG DATA ANALTICS WITH MONGODB ATLAS CLOUD	5	4,800
58. BIG DATA ANALYTICS WITH AWS CLOUD	5	4,800
59. BIG DATA ANALYTICS WITH HADOOP TECHNOLOGY	5	4,800
60 DATA MINING AND WEKA SOFTWARE TOOL	3	4,800
61. BASIC ARTIFICIAL INTELLIGENCE TRAINING	3	3,500
62. MASTERING ARTIFICIAL INTELLIGENCE & DEEP LEARNING	5	4,800
63. ANDROID PROGRAMMING AUGMENTED REALITY (AR)	5	4,800
64. ANDROID APPS	3	2,700
65. MACHINE LEARNING	3	3,700
66. CLOUD COMPUTING	3	3,700
67. BLOCK CHAIN	2	4,500
68. MYSQL DATABASE ADMINISTRATOR	3	1,800
69. MYSQL QUERYING	3	1,800
70. DATABASE DESIGN	3	1,800

DATA ANALYSIS

71. GOOGLE ANALYTICS	3	1,800
72. BUSINESS INTELLIGENCE (BI)	3	2,600
73. MICROSOFT EXCEL DASHBOARD	5	2,600
74. WIRESHARK	2	1,800

WEB SERVICE

75.	JAVA	3	2,200
76.	PHP	3	1,800

DISTRIBUTED VERSION CONTROL

77.	GITN	3	1,800

MOBILE APPS

78.	CROSS-PLATFORM: PHONEGAP / APACHE CORDOVA	5	2,600
79.	CROSS-PLATFORM: REACT NATIVE	5	2,600
80.	UI FRAMEWORK: IONIC FRAMEWORK	5	2,600
81.	UI FRAMEWORK: FLUTTER FRAMEWORK	5	2,600
82.	NATIVE: JAVA FOR ANDROID	5	2,600
83.	NATIVE: SWIFT FOR IOS	5	2,600

UI FRAMEWORK

84.	ANGULAR JS	5	2,600
85.	NODE JS	5	2,600
86.	VUE JS	5	2,600
87.	EXT JS	5	2,600
88.	REACT JS	5	2,600
89.	METEOR JS	5	2,600
90.	BOOTSTRAP	3	1,800
91.	JQUERY - MOBILE	4	2,200
92.	JQUERY	3	1,800
93.	FOUNDATION	5	2,600

FRAMEWORK

94.	PHP – Laravel Framework	5	2,600
95.	PHP – CodeIgniter Framework	5	2,600
96.	PHP – Yii Framework	5	2,600
97.	PHP – Slim Framework	5	2,600
98.	JAVA – Struts Framework	5	3,400
99.	JAVA – Liferay Framework	5	3,400
100.	COLDFUSION – Railo Framework	5	3,400

SERVER

101. INSTALLING & CONFIGURE WINDOWS SERVER	5	2,600
102. ADMINISTERED WINDOWS SERVER	5	2,600
103. CONFIGURING, MANAGING & MAINTAINING WINDOWS SERVER	5	2,600
104.. UBUNTU QUANTEL QUATZEL	5	2,600
105. VMWARE VIRTUALIZATION	5	2,600
106. RED HAT SYSTEM ADMINISTRATION I (RH124)	5	2,600
107. RED HAT SYSTEM ADMINISTRATION II (RH134)	5	2,600
108. CENTOS FUNDAMENTALS	5	2,600
109. CENTOS SYSTEM ADMINISTRATOR	5	2,600

ENGINEERING (USING LABVIEW)

110. FUNDAMENTALS OF G PROGRAMMING USING LABVIEW	3	1,800
111. BUILDING YOUR OWN DATA ACQUISITION SYSTEM	3	1,800
112. IOT SYSTEM DEVELOPMENT USING LABVIEW	3	1,800

NETWORKING

113. BASIC NETWORKING CERTIFICATION FOR PLANT CONTROL SYSTEM APPLICATIONS	3	2,550
114. ADVANCE NETWORKING CERTIFICATION FOR PLANT CONTROL SYSTEM APPLICATIONS	3	4,550

SkyMes

AN ITALIAN-ENGINEERED MES SOFTWARE

IOT SATA (Malaysia) is an official partner of METALYA (Italy) as a Value-Added Reseller (VAR). This partnership allows us to introduce SkyMes, METALYA's advanced Manufacturing Execution System (MES), to the Southeast Asian manufacturing market. An Italian-engineered software that's not only powerful but also highly customizable, flexible, and quick to deploy, all designed to significantly boost your operational efficiency.

SkyMes is a next-generation MES/MOM platform (Cloud & On-Premise) built for Industry 5.0. With over 30 years of expertise, 500+ successful projects, and a strong global presence, SkyMes transforms factories into digital, efficient, and sustainable operations.

Key Highlights:

Integrated	Seamless connection between ERP, machines & systems
Comprehensive	Manage production, scheduling, inventory, quality & maintenance in one platform
Intelligent (AI-powered)	Predictive maintenance, quality control & process optimization
Sustainable	Reduce waste, monitor energy, and support green production

SkyMes Benefit

| -20% Reduction Lead-Time | +30% Productive Efficiency | -15% Reduction Downtime | +100% Paperless Manufacturing |

SkyMes Module

SkyMes Summary
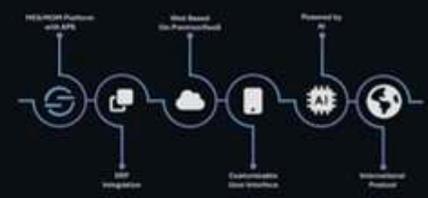
SkyMes Designer

Analysis & EDMS

Production

T ROBOT

Your Source for
Automation, Digitalisation & Upskilling
Transforming Industries and Empowering the Workforce

Our Services

Robotics and automation solutions

Internet of Things & I4.0 Solutions

Industrial & Educational Technical Training

Our Products

Industrial Linear Robot
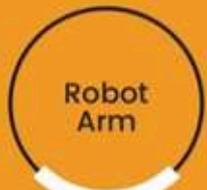
Robot Arm

Factory Digitalisation

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