



Prime Minister's Department

MIGHT

Malaysian Industry-Government Group
for High Technology

ANNUAL REPORT 2018

HARMONISING HIGH TECHNOLOGY

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ANNUAL REPORT 2018



www.might.org.my



@mightmalaysia

MALAYSIAN INDUSTRY-GOVERNMENT GROUP FOR HIGH TECHNOLOGY (MIGHT)

Prime Minister's Department MIGHT PARTNERSHIP HUB, Jalan IMPACT, 63000 Cyberjaya, Selangor, Malaysia

Website : www.might.org.my E-mail : info@might.org.my

WHAT'S INSIDE



COVER RATIONALE

HARMONISING HIGH TECHNOLOGY

As technology grows ever more sophisticated and its relationship with humanity grows more reliant on each other, it becomes imperative for us to demystify and erase the boundaries created by past inventions. Technologies have and should always be improved upon in correlation with the three cores of human needs—safety and security, human relationships, and personal growth. Future technologies must be able to demonstrate significant and unique potential for improving lives, whether individually or collectively.

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CORPORATE INFORMATION



REGISTERED OFFICE

Suite C-5-4, Wisma Goshen,
Plaza Pantai, Jalan Pantai Baharu,
59200 Kuala Lumpur.

COMPANY SECRETARY

Shahrizat Othman
(MAICSA 0764744)

PLACE OF BUSINESS

Malaysian Industry-Government
Group for High Technology
Prime Minister's Department
MIGHT Partnership Hub,
Jalan Impact,
63000 Cyberjaya,
Selangor.

AUDITOR

BDO
Level 8, Menara Centara,
360, Jalan Tuanku Abdul Rahman,
50100 Kuala Lumpur.

PRINCIPAL BANKER

CIMB Bank Berhad
Putrajaya Branch
2M11-A, Kompleks Kementerian
Kewangan,
No 5, Persiaran Perdana, Presint 2,
62592 Putrajaya.

ABOUT MIGHT

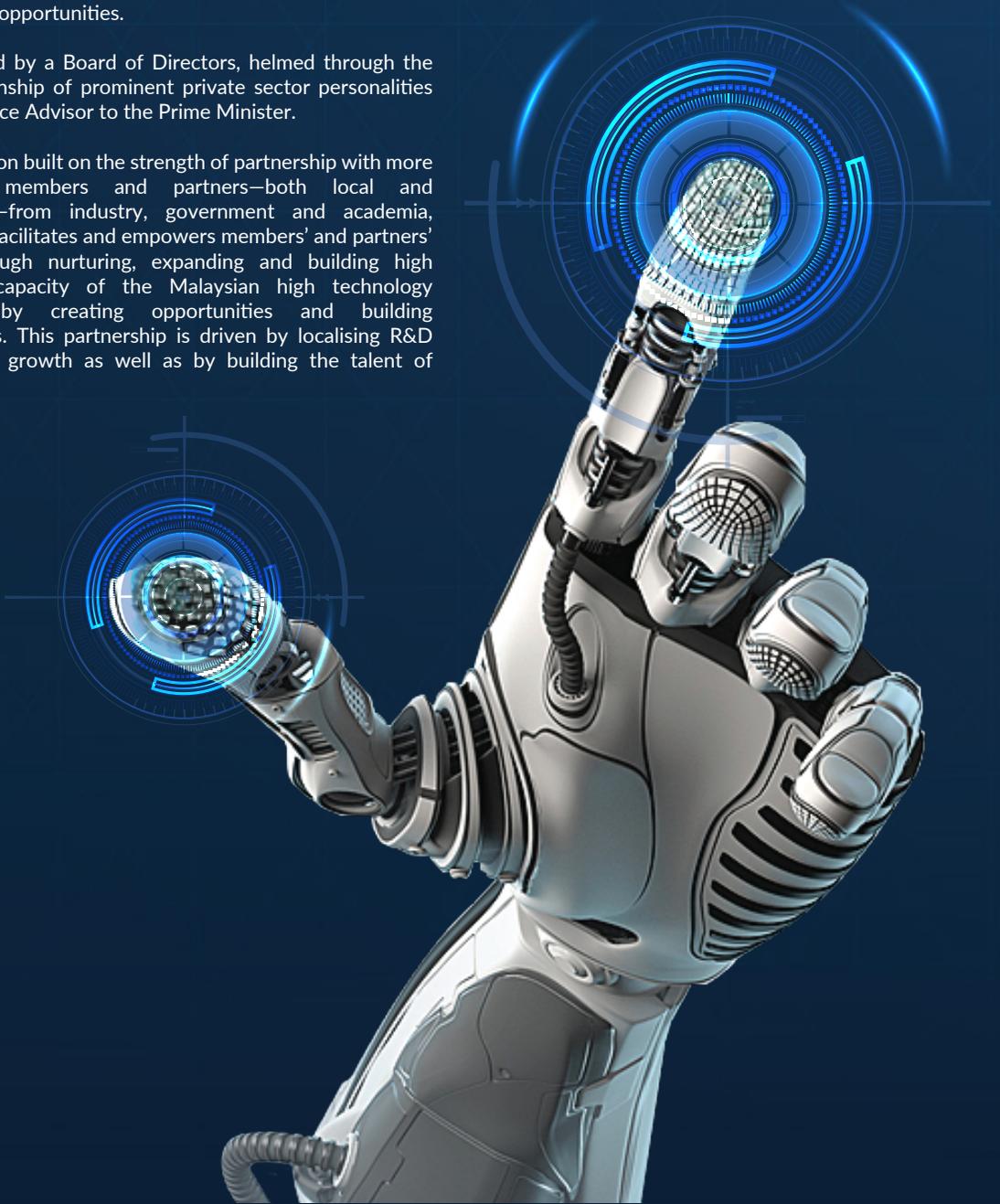
MALAYSIAN INDUSTRY-GOVERNMENT GROUP FOR HIGH TECHNOLOGY

The Malaysian Industry-Government Group for High Technology (MIGHT) was established on 22nd February 1993 as the technology think-tank under the purview of the Prime Minister's Department. Its key role is building and driving partnerships in technology through a consensus building platform between the private and public sectors and providing strategic advice and alliances to shape high technology studies, capacity building through policy interventions as well as flagship programmes and strategies for the country.

MIGHT emphasises on market intelligence initiatives using foresight practices and methodology to identify technology and business opportunities.

It is governed by a Board of Directors, helmed through the joint-chairmanship of prominent private sector personalities and the Science Advisor to the Prime Minister.

An organisation built on the strength of partnership with more than 100 members and partners—both local and international—from industry, government and academia, MIGHT also facilitates and empowers members' and partners' success through nurturing, expanding and building high technology capacity of the Malaysian high technology ecosystem by creating opportunities and building competencies. This partnership is driven by localising R&D solutions for growth as well as by building the talent of tomorrow.

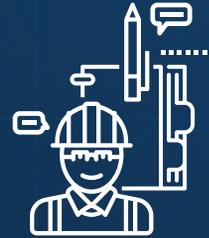


MISSION

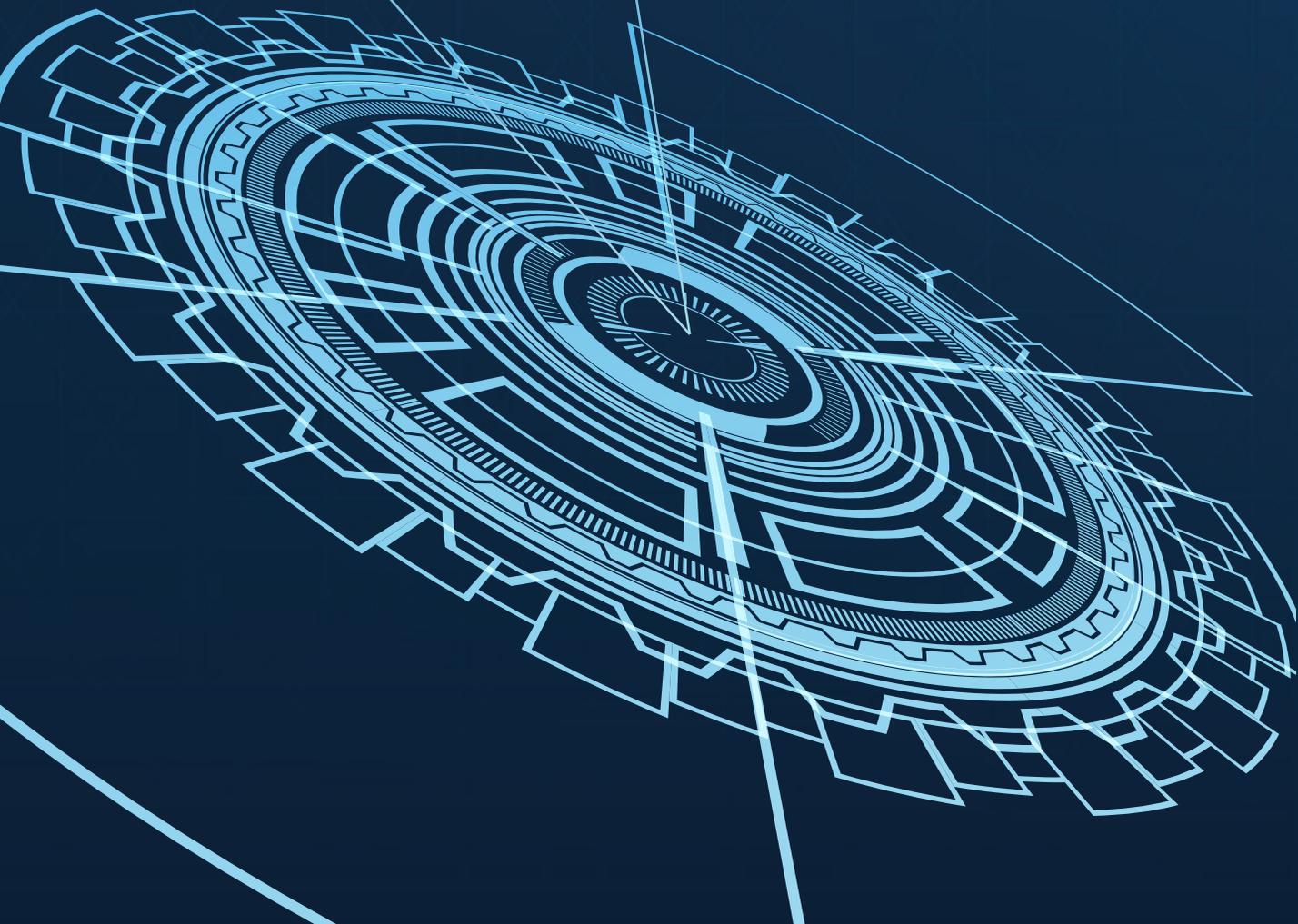


To serve the nation in advancing competency in high technology through partnerships towards sustainable development

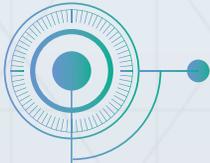
OBJECTIVES



- Partnering for delivering impact
- Nurturing techno-business innovation
- Setting a common direction for high technology industry development
- Securing financial foundation for growth & sustainability
- Developing capability and competency for high technology industry



ROLES OF MIGHT



01

To respond to the effects of globalisation and trade liberalisation on the country's development and future economic growth.



02

To efficiently harness the country's strengths to accelerate the use of high technology for sustainable economic growth.



03

To carry out 'prospecting'—research and harnessing of technologies for the creation of business opportunities—activities in a dynamic, neutral and independent manner to fulfil the nation's techno-business agenda.



04

To establish a triple helix synergy involving the Government, Industry & Academia. This consensus building mechanism will allow for an understanding of the dynamics of the different sectors.



05

To develop a national ecosystem that encompasses all aspects of capabilities in the value chain identified with business opportunities in high technology sectors, policy formulation and human resource development.

OUR FORTE

Programmes and activities include building strategic partnerships and alliances, technology acquisition and nurturing capacity building as well as strengthening the growth of these sectors through policy interventions and flagship programmes.



**ENHANCING
FUTURE
TALENTS**



**DEVELOPING
TECHNOLOGY
PRIORITIES &
ADVANCEMENT**



**PROMOTING
TECHNOPRENEURSHIP
EXCELLENCE**





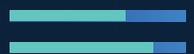
**FORESIGHT &
FUTURES THINKING**



**OPTIMISING
GLOBAL
STRATEGIES
& OUTREACH**



**DRIVING THE SUSTAINABLE
DEVELOPMENT PLATFORM
FOR SMART CITIES,
RENEWAL ENERGY &
INDUSTRY 4.0**



OUR CORPORATE VALUES

S.U.A.V.E

SMART . UNITED . AGILE . VIGILANT . ENTERPRISING



SMART

We are insightful and forward-looking in pursuit of new technologies and new techno-business opportunities.



UNITED

We mobilise collective efforts of partnerships in optimising delivery impact and harmonising views and opinions to provide impartial propositions as well as resolutions to stakeholders, thus creating benefits to society.



AGILE

We are able to adapt and adopt. We are versatile by having the ability to promptly respond to, and master challenges.



VIGILANT

We are alert to opportunities via constant intelligence and monitoring of our environment.



ENTERPRISING

We facilitate commercialisation and nurture innovation, technopreneurship and business for wealth creation.

QUOTES & REMARKS



PATRON OF MIGHT

CHIEF SECRETARY TO THE
GOVERNMENT OF MALAYSIA
HONORARY ADVISOR TO
MIGHT



JOINT CHAIR (INDUSTRY)



PRESIDENT & CEO

... “THE IDEA ABOUT INVESTING IN A NATIONAL CAR IS NOT JUST ABOUT BUILDING A NATIONAL CAR. IT IS ABOUT BECOMING A CATALYST FOR GROWING THE MALAYSIAN ENGINEERING CAPABILITY. WE NEED TO TURN MALAYSIA INTO A COUNTRY OF PRODUCERS INSTEAD OF CONSUMERS.” ...

PATRON OF MIGHT

YAB TUN DR. MAHATHIR BIN MOHAMAD
PRIME MINISTER OF MALAYSIA





... "THE GOVERNMENT'S ASPIRATION IS TO TURN MALAYSIA INTO AN ASIAN TIGER. THE PUBLIC SERVICE PLAYS A PIVOTAL ROLE AS THE GOVERNMENT'S BACKBONE TO ACHIEVE THE NATIONAL VISION IN PARALLEL WITH DEVELOPED COUNTRIES. WE SHOULD COOPERATE AND MOVE FORWARD AS A SINGLE ENTITY WITH ONE COMMON GOAL." ...

YBHG. DATUK SERI DR. ISMAIL BIN HJ. BAKAR

Chief Secretary to the Government of Malaysia
Honorary Advisor to MIGHT

... "MIGHT WILL PLAY AN IMPORTANT ROLE IN DRIVING THE TRANSFORMATIONAL CHANGES NEEDED ACROSS INDUSTRIES, GOVERNMENT ECOSYSTEM, ACADEMIA AND THE CIVIL SOCIETY. THIS IS FURTHER ENABLED BY OUR REFRESHED MANDATE AND ROLE WHERE MIGHT IS NOW BACK TO WHERE WE STARTED" ...

TAN SRI DATUK DR. IR. AHMAD TAJUDDIN ALI, FASc

Joint Chair – Industry





... "MIGHT HAS BEEN A STRONG PROPONENT FOR THE DEVELOPMENT OF INDIGENOUS TECHNOLOGY PLATFORMS THAT WILL PRODUCE THE DESIRED OUTCOMES FOR THE NATION AND ITS PLAYERS. WE NEED TO EMBRACE THIS NEW AGE OF DISRUPTION, THE FOURTH INDUSTRIAL REVOLUTION AND BE AN EARLY MOVER." ...

DATUK DR. MOHD YUSOFF SULAIMAN

President & CEO

MANAGEMENT'S REMARKS

2018 marks the 25th Anniversary of the establishment of MIGHT. Formed in 1993 under the auspices of the Prime Minister's Department, today we are still going strong and are as committed as ever to serve the nation in advancing competency in high technology through partnership towards sustainable development.

2018 also marks another momentous occasion, the return of MIGHT's first Patron (1993 - 2003), Tun Dr Mahathir Mohamad as the 7th Prime Minister of Malaysia. During the first meeting with MIGHT's Joint-Chair and President/CEO after the formation of the new government, the Prime Minister agreed to once again become the Patron of MIGHT and for MIGHT to remain under the Prime Minister's Department—to be working closely with key ministries and agencies i.e. MED, MOT, MITI, MOF and ICU. Further emphasising his confidence in MIGHT's capabilities, MIGHT was entrusted to be the Lead Agency for the New National Car Project (NNCP). This initiative, dubbed as "More than just a car", was an immediate response to the implementation of Industry 4.0 as promoted by MITI. "Ready, set ... go" is the motto driving this private sector-led initiative, to re-ignite the automotive industry ecosystem of local vendors, policy makers, research institutions, innovators and startups, international partners and others.

Mobility as a Service (MaaS) is an interesting phenomenon that has transformed the way people and goods move. Grab and Uber immediately come to mind. At MIGHT, we combine our experience and expertise—in aerospace/aviation, shipbuilding & shiprepair/shipping, automotive/road transportation, railways/rail-based transportation and smart cities—to provide a holistic and futuristic outlook of managing mobility using new technologies such as AI, IoT and Big Data to provide seamless and quality service for the public.

At the same time, renewable and sustainable energy are also being pursued as we develop new business models to encourage more businesses to utilise solar power that is not only cost-saving but also environmentally friendly. Our goal is to nurture local businesses to be more competitive in this industry and become positive contributors to the earth's future.

We are also happy to note that MIGHT's own Malaysia Foresight® Institute or myForesight®, through its training and consultancy, has managed to transform the public service and industry players' mindset in strategic

planning and policy-making. As the world goes through rapid and sometimes turbulent changes, the ability to undertake foresighting, horizon scanning and design thinking is a competency that every organisation or institution needs. myForesight®'s key involvement in MITI's Industry 4.0 document 'Industry 4.0' and GIACC's National Anti-Corruption Plan was recognised by both organisations as being a critical and significant contribution. Soon, MIGHT will launch a new platform called myCompete that will address the level of competitiveness of the nation in various industries and sector by utilising our new analytics centre, to better position the country's manufacturing and services sectors in the global market.

MIGHT Consultation 2018 was our closing act for the year. The Honourable Prime Minister delivered an inspiring speech in front of ministers as well as MIGHT's industry and government members, in which he has strongly urged for greater exploration into the application of microchip technology and its further improvement in areas such as security and environment. The urgent need for an effective waste management was also highlighted given that contemporary society produces vast quantities types of waste. Furthermore, the Prime Minister has re-emphasised the importance of R&D and how government's involvement in research can be costly undertaking. On that note, he urged MIGHT to encourage more research activities based on industry demands to be done in research houses in Malaysia. During the event, the Prime Minister launched MIGHT's building in Cyberjaya, as MIGHT Partnership Hub—a centre where public and private institutions can come together to discuss and plan the future of the nation's high technology agenda.

As a closing note, we would like to express our deepest gratitude and appreciation to our Patron and Prime Minister of Malaysia, Tun Dr. Mahathir Mohamad, Board of Directors, MIGHT members and partners, management, associates and staff of MIGHT, who have contributed tremendously to the success and achievements of MIGHT. We look forward to your continued support and participation in our activities in 2019.

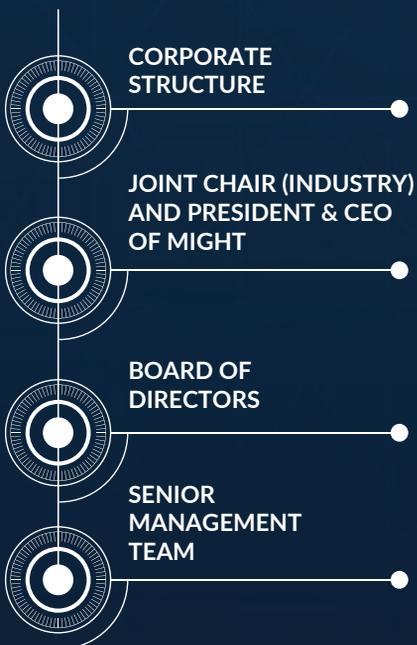
TAN SRI DATUK DR. IR. AHMAD TAJUDDIN ALI, FASc

Joint Chair – Industry

DATUK DR. MOHD YUSOFF SULAIMAN

President & CEO

CORPORATE STRUCTURE



CORPORATE STRUCTURE



JOINT CHAIR (INDUSTRY)



**TAN SRI DATUK DR. IR. AHMAD
TAJUDDIN ALI, FASc**

PRESIDENT AND CEO



**DATUK DR. MOHD YUSOFF
SULAIMAN**

BOARD OF DIRECTORS



ALTERNATE DIRECTORS

- Dato' Zulfikri Osman**
Majlis Amanah Rakyat (MARA)
- Marina Md Taib**
Petroliam Nasional Berhad (PETRONAS)
- Dato' Tan Kia Loke**
Sunway Group

DIRECTORS WHO HAS SERVED MIGHT IN 2018

- Tan Sri Dato' Seri Mohd Bakke Salleh
(Alternate Director : Nair Hari Krishnan Achuthan)
(Resigned on 1 March 2018)
- Saji A/L MK Raghavan
(Resigned on 1 July 2018)
- Dato' Seri Ir. Dr. Zaini Ujang
(Resigned on 7 September 2018)
- Prof. Tan Sri Zakri Abdul Hamid
(Resigned on 9 October 2018)
- Datuk Kua Abun
(Resigned on 31 December 2018)
- Datuk Zainal Abidin Abu Hassan
(Resigned on 20 March 2019)
- Datuk Seri Ir. Azman Mohd
(Alternate Director : Ismail Haji Abd Rahman)
(Dato' Roslina Zainal)
(Resigned on 28 March 2019)
- Datuk Talagavathi A/P R. Karapayah
(Resigned on 27 May 2019)

SENIOR MANAGEMENT TEAM



**DATUK DR. MOHD
YUSOFF SULAIMAN**
President & CEO



ABD HALIM MOHD BISRI
Senior Vice President



MOHD ZAKWAN MOHD ZABIDI
Senior Vice President



RASLAN AHMAD
Senior Vice President



RUSHDI ABDUL RAHIM
Senior Vice President



IDA SEMURNI ABDULLAH ALI
Vice President



MD ZAINI MD ZAKARIA
Vice President



MOHD NASIR MD IBRAHIM
Senior Principal Analyst I



**MOHD NURUL AZAMMI
MOHD NUDRI**
Senior Principal Analyst I



ROBERT TAI CHIANG VUN
Senior Principal Analyst I

MIGHT MEMBERSHIP

INTRODUCTION

MIGHT offers a platform for collaboration between the public and private sectors in driving the nation's high technology industry. By providing a network of local and global linkages for members to capitalise on through synergistic partnerships, MIGHT is Malaysia's own unique organisation that undertakes strategic alliances and performs analysis on high technology industry and business opportunities.

MIGHT members are from various fields, including key government ministries and agencies, public listed companies, small and medium enterprises (SMEs), universities, research institutions, non-governmental organisations (NGOs) and multinational corporations (MNCs).

STRATEGIC BENEFITS OF MIGHT MEMBERSHIP

- Global exposure to strategic technologies and businesses
- Contribution in providing input to formulate national strategic plans for high technology industry sectors
- Opportunities for collaboration and partnership in technology and business
- Participate in business forums, consultations, seminars, dialogues and global missions
- Participate in collective technology efforts beyond the resource of individual organisation

FOUR CATEGORIES OF MIGHT MEMBERSHIP



MEMBERSHIP ACTIVITIES



'25 Years of Partnership' MIGHT Golf Tournament 2018



Industrial Visit to Free The Seed Sdn Bhd, where MIGHT presented a tractor and baler to PPKPS. The contribution will provide farmers opportunities to earn extra income as well as turning waste to wealth, supporting sustainability.



Industrial Visit to Silterra on leveraging local competency in semiconductor & IC fabrication.

MEMBERSHIP ACTIVITIES



Strategic Engagement with SME Bank on Green Bank and Green Financing. MIGHT had also organised a Special Workshop Session to all HODs of SME Bank on Industry 4.0 and Green Technology Implications towards the Financial Sector.



MIGHT's Top Management Working Visit to SIRIM, Kulim, Kedah.



MIGHT's Top Management Working Visit to SIRIM, Kulim, Kedah.



MIGHT- Honeywell Talk Session at Ignite Passion in STEM and Inspire, Kuala Lumpur.

LIST OF MEMBERSHIP

LEAD MEMBERS

1. MAJLIS AMANAH RAKYAT (MARA)
2. PETROLIAM NASIONAL BERHAD (PETRONAS)
3. SIME DARBY BERHAD
4. TENAGA NASIONAL BERHAD (TNB)

PERMANENT MEMBERS

1. ENERGY COMMISSION
2. FOREST RESEARCH INSTITUTE OF MALAYSIA (FRIM)
3. INSTITUTE OF STRATEGIC AND INTERNATIONAL STUDIES (ISIS) MALAYSIA
4. KULIM TECHNOLOGY PARK CORPORATION BHD
5. MAJLIS PERUNDINGAN MELAYU (MPM)
6. MALAYSIA EXTERNAL TRADE DEVELOPMENT CORPORATION (MATRADE)
7. MALAYSIAN ADMINISTRATIVE MODERNISATION AND MANAGEMENT PLANNING UNIT (MAMPU)
8. MALAYSIAN AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE (MARDI)
9. MALAYSIAN INDUSTRIAL DEVELOPMENT AUTHORITY (MIDA)
10. MALAYSIAN MARITIME ACADEMY SDN BHD (ALAM)
11. MALAYSIAN NUCLEAR AGENCY (NUCLEAR MALAYSIA)
12. MALAYSIAN PALM OIL BOARD (MPOB)
13. MALAYSIAN RUBBER BOARD (MRB)
14. MARITIME INSTITUTE OF MALAYSIA (MIMA)
15. MIMOS BERHAD

PERMANENT MEMBERS (CONTINUED)

16. MINISTRY OF AGRICULTURE AND AGRO-BASED INDUSTRY MALAYSIA (MOA)
17. MINISTRY OF DEFENCE MALAYSIA
18. MINISTRY OF ECONOMIC AFFAIRS (MEA)
19. MINISTRY OF ENERGY, SCIENCE, TECHNOLOGY, ENVIRONMENT & CLIMATE CHANGE (MESTECC)
20. MINISTRY OF FINANCE MALAYSIA (MOF)
21. MINISTRY OF HOME AFFAIRS MALAYSIA (MOHA)
22. MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY MALAYSIA (MITI)
23. SIRIM BERHAD
24. TECHNOLOGY PARK MALAYSIA CORPORATION SDN BHD
25. UNIVERSITI KEBANGSAAN MALAYSIA (UKM)
26. UNIVERSITI MALAYA (UM)
27. UNIVERSITI SAINS MALAYSIA (USM)
28. UNIVERSITI TEKNIKAL MALAYSIA MELAKA (UTEM)
29. UNIVERSITI TEKNOLOGI MALAYSIA (UTM)
30. UNIVERSITI TEKNOLOGI MARA (UiTM)
31. UNIVERSITI UTARA MALAYSIA (UUM)
32. YAYASAN PENERAJU

ORDINARY MEMBERS

1. ADVANCED AIR TRAFFIC SYSTEMS (M) SDN BHD
2. AEROSPACE COMPOSITES MALAYSIA SDN BHD
3. AMBANK GROUP
4. AXIATA GROUP BERHAD
5. BANK PEMBANGUNAN MALAYSIA BERHAD

ORDINARY MEMBERS

- | | |
|---|--|
| 6. BERJAYA GROUP BERHAD | 32. PNB EQUITY RESOURCE CORPORATION SDN BHD |
| 7. BINA PURI HOLDINGS BHD | 33. PROTON HOLDINGS BERHAD |
| 8. BOUSTEAD HEAVY INDUSTRIES CORPORATION BERHAD | 34. PUNCAK NIAGA MANAGEMENT AND SERVICES SDN BHD |
| 9. CLARA INTERNATIONAL BEAUTY GROUP | 35. RANHILL HOLDINGS BERHAD |
| 10. COMPOSITES TECHNOLOGY RESEARCH MALAYSIA SDN BHD | 36. RHB BANK BERHAD |
| 11. DESTINI PRIMA SDN BHD | 37. RUAG AVIATION MALAYSIA SDN BHD |
| 12. DRB-HICOM BERHAD | 38. SAPURA GROUP / SAPURA ENERGY |
| 13. DREAMEDGE SDN BHD | 39. SARAWAK ENERGY BERHAD |
| 14. DUOPHARMA (M) SDN BHD | 40. SCOMI ENGINEERING BHD |
| 15. FIRST SOLAR MALAYSIA SDN BHD | 41. SILTERRA MALAYSIA SDN BHD |
| 16. HEITECH PADU BERHAD | 42. SMH RAIL SDN BHD |
| 17. HSS INTEGRATED SDN BHD (HSSI) | 43. SUNWAY BERHAD |
| 18. KAY MARINE SDN BHD | 44. SYSTEM CONSULTANCY SERVICES SDN BHD |
| 19. KERETAPI TANAH MELAYU BERHAD (KTM) | 45. TM BERHAD |
| 20. KHAZANAH NASIONAL BERHAD | 46. UEM GROUP BERHAD |
| 21. KUALA LUMPUR KEPONG BERHAD | 47. UZMA GROUP |
| 22. MALAYSIA AIRLINES | |
| 23. MALAYSIA AIRPORTS HOLDINGS BERHAD | |
| 24. MALAYSIA DEBT VENTURES BERHAD | |
| 25. MUHIBBAH ENGINEERING (M) BHD | |
| 26. PERBADANAN USAHAWAN NASIONAL BERHAD (PUNB) | |
| 27. PERMODALAN NASIONAL BERHAD | |
| 28. PERNEC CORPORATION BERHAD | |
| 29. PERUSAHAAN OTOMOBIL KEDUA SDN BHD (PERODUA) | |
| 30. PHARMANIAGA BERHAD | |
| 31. PJS INDUSTRIES SDN BHD | |

ASSOCIATE MEMBERS

1. BAE SYSTEMS (INTERNATIONAL) LIMITED
2. HONEYWELL INTERNATIONAL SDN BHD
3. ROLLS - ROYCE INTERNATIONAL LIMITED
4. SAFRAN AEROSPACE DEFENCE SECURITY MALAYSIA SDN BHD
5. THALES MALAYSIA SDN BHD

MIGHT'S PURVIEW

MALAYSIAN FORESIGHT INSTITUTE (MYFORESIGHT®)



Malaysian Foresight Institute (myForesight®) is a pioneering, national-level initiative dedicated to the study and application of the field of Foresight. It is under the purview of MIGHT.

myForesight® provides a common Malaysia-based platform to share experiences, insights and expertise on future studies at the local and global levels. The key components to its mission are intelligence, research, competency and community service.

myForesight® envisions to provide the following outputs :



myForesight® intends to support the country's future needs and development to support the New Economic Model and to prepare Malaysians for Vision 2025 and beyond by utilising scientific and hybrid methodologies to conduct various foresight-related programmes nationwide. Programmes by myForesight® serve to guide the government and industry to systematically plan for the future.

Foresight has been acknowledged as a key high-level instrument in strategising and planning for the future and adopted to model, understand and shape the future in order to gain competitive advantage through strategic decision-making.

It is also a transdisciplinary field that tracks future trends in a sphere of human activities and is an essential part of the planning process within the policy-making and industrial establishments, among others. It foresees new horizons and key drivers for Science, Technology and Innovation (STI) as well as weak, extraneous signals that may snowball into disruptive, "wildcard" events.

MIGHT'S PURVIEW

MALAYSIA RAIL INDUSTRY CORPORATION



Malaysia Rail Industry Corporation or better known as MARIC, is an industry-led platform that promotes coordination and integration among Malaysian rail players. Established on 17th April 2017 with the function to support and represent the voice of local rail industry players, MARIC acts as the focal point for the local players assisting in strategic development for human capital, technology and supply chain. MARIC benefits from relevant government investment and stands to support government policies on national rail industry development.

A total of 36 local rail companies are gathered under MARIC, with a focus on seven clusters of capabilities in system works, namely: signalling, track works, rolling stocks, telecommunication, power supply, automated fare collection, and consultancy. Thanks to the government's localisation policy, the local rail industry has developed and achieved international standards and recognition, mainly through the local players' involvement in three major projects under The Greater Kuala Lumpur Plan 2010. These projects were awarded based on the capabilities of MARIC members together with each respective local and international rail partner.

MARIC IS MOVING FORWARD TO FURTHER STRENGTHEN THE PRESENCE OF MALAYSIAN RAIL INDUSTRY PLAYERS IN BOTH LOCAL AND INTERNATIONAL SCENE

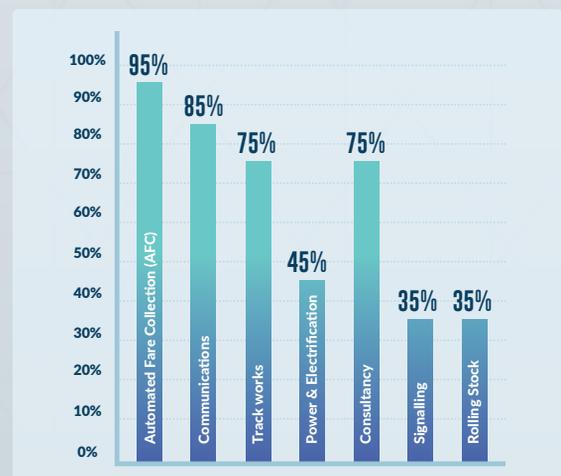
In any rail project, system works would represent 40% of the overall cost while the rest covers the expenditure for infra and civil. From 2017 to 2019, total project value for MARIC costs about RM4.8 billion, which includes KVMRT 2 SSP, KVDT Rehabilitation Phase 1, LRT 3 Bandar Utama – Johan Setia and rolling stocks for MRO. For local system work packages, MARIC members contributed about 55% in overall system rail engineering projects which include Klang Valley Double Track, Rawang-Ipoh Double Tracks, Putra LRT, STAR LRT, KL Monorail, Ipoh-Padang Besar Double Tracks, LRT Line Extension Ampang and Kelana Jaya Lines, Seremban-Gemas Double Tracks, Gemas-Tumpat Rail Rehabilitation, MRT SBK Line and many more. These projects cover signalling, communications, electrifications, tracks, ticketing and rolling stock. MARIC members expand their expertise through knowledge

transfer such as after-sales involvements, MRO and export capabilities. It also accorded MARIC members credibility as EPCC (engineering, procurement, construction and commissioning) partners to the international original equipment manufacturer (OEM), enabling smart-partnership between various parties, locally and abroad. MARIC members have successfully penetrated the foreign market for rail exports in supplying monorail train system for India and South America, electrification system in South East Asia, track works in Jakarta, red line project in Thailand and communication system in Ho Chi Minh City.

On a bigger picture, the other segments of economy are also benefitting from rail projects in terms of transit-oriented development (TOD). The developments will bring benefits far beyond just rail, but rather, on the socio-economic development along the rail tracks as well, especially around the stations. Apart from bringing development and economic benefits to the country, it will also generate and create job opportunities. MARIC is determined to take on the challenge to ensure that Malaysia's rail industry elevates its standing as a driver of technology while becoming a major contributor for the source of external income for the country.

Through these strategic development projects of TODAY, MARIC members are able to further develop their capability and capacity in running a global rail business for the FUTURE.

LOCAL RAIL COMPETENCIES BY PERCENTAGE IN SYSTEMS ENGINEERING, PROCUREMENT, CONSTRUCTION & COMMISSIONING (EPCC)



MIGHT'S SUBSIDIARY

VENTURETECH'S 2018 INVESTMENT AND BRING TO NEXT LINE CREATION HIGHLIGHTS

2018-Review and Highlights

The 2018 curtain—opened with a RM20 million investment in Ain Medicare Sdn. Bhd., Malaysia's largest privately-owned pharmaceutical manufacturer. The investment amount will be channelled for the establishment of Ain 5—a state-of-the-art, 7-line manufacturing plant for dialysis-related pharmaceutical products. The plant is scheduled to reach commercial operation in the later part of 2019. The completion of the plant will further elevate the pharmaceutical company's capacity to a more competitive scale, allowing the company to boost its export in the region. Additionally, it will also meet more local demands, thus ensuring supply stability of critical dialysis products to Malaysian patients.

VentureTECH ended the year on a high note by investing in CMC Group Sdn. Bhd., a top-tier integrated project management services provider for clients in public transportation, info-comms, and energy sectors. With substantial experience abroad in projects such as Singapore's Changi Airport and Vietnam's Ho Chi Minh City Metro, CMC is now looking inward to help Malaysia build its connectivity through railways.

As a dedicated and trusted developmental investment company, last year's milestone saw VentureTECH strategising investment and value creation strategies around market insights and on-the-ground business dynamics. This was realised with the completion of an in-depth evaluation of the ecosystem that culminates in a "Report on Biopharmaceutical Landscape in Malaysia" in comparison to Korea. The Report, which focused on the challenges and opportunities for local manufacturers, was conducted in collaboration with Korea Bio and the Malaysian Bioeconomy Corporation, with inputs from Pharma Associations, MESTECC (formerly MOSTI),

MATRADE and key industry leaders. Among the highlights of the evaluation include Malaysia's dependency on imported pharmaceuticals, factors hindering commercialisation of pharmaceutical products and obstacles faced by pharmaceutical companies to move up the value chain—all of which were presented to key stakeholders including the Ministry of Health. True to the company's vision of being the nation's trusted investment partner established with an objective to develop Malaysian entrepreneurs into iconic Malaysian companies known to the world, VentureTECH weathered through a trying investment climate when many other investment companies stayed on the sideline in respond to the challenging business landscape and lack of investable opportunities during the year.



17th January 2019

VentureTECH's Managing Director, Dr. Norida Abd. Rahman, Chief Investment Officer, Mr. Ahmad Redzuan Sidek, and Head of Value Creation, Mr. Nizam Mohd Reza paying a courtesy visit to the office of The Chief Secretary to the Government of Malaysia, Y.Bhg Tan Sri Datuk Seri Dr. Ismail Haji Bakar.

Other Investee Companies' Highlights

1. Selia Tek Medical Sdn Bhd

The investment in Selia Tek Medical Sdn. Bhd. (Selia Tek) in 2017 was a result of VentureTECH's vast industry knowledge and linkages. Based on an innovation from a local university, Selia Tek developed vacuum blood container (VBC), a critical medical device used daily in medical operations. The product, however, was not being supplied locally, thus posing risks and threats to operations in hospitals and clinics within the country. With investment and assistance from VentureTECH, Selia Tek's VBC is now fully developed, with commercialisation on its way, including an interest from a VentureTECH-backed pathology company, Clinipath Malaysia Sdn. Bhd.

2. Clinipath (M) Sdn Bhd

In 2018, Clinipath Malaysia ran 19 pathology labs across Malaysia including Sabah and Sarawak. The labs provided over 2,000 crucial pathology tests including the basic blood and urine screening, to the more advance genomic test and profiling. Through support from VentureTECH, the company managed to position itself as a digital pathology company, powered by an upgraded IT infrastructure and digitalisation of its operation. This has resulted in the company to rapidly scale up with at least two more branches expected to be opened in 2019. By introducing a company such as Clinipath Malaysia into the current investment portfolio, it strategically enables VentureTECH to support healthcare policies initiated by the government. This is evident when Clinipath Malaysia was identified as one of the laboratory service providers involved in the government's PeKa B40 free health screening programme, a government initiative that will surely increase access to basic healthcare services for the benefit of the rakyat.

3. Detik Aturan Sdn Bhd

2018 saw the successful development of high grade, low potassium EFB pellets by Detik Aturan Sdn. Bhd., a VentureTECH portfolio company. Detik Aturan is an exemplary company with local capabilities on the R&D front. The development of the EFB pellets was a result of collaboration with Tenaga Nasional Berhad (TNB) and Korea Electric Power Research Institute (KEPRI). Following the collaboration, VentureTECH has been facilitating Detik Aturan to raise funds from large foreign investors to set up the manufacturing plant for high grade EFB. The year 2019 promises a bright outlook for Detik Aturan as the company has successfully marketed its EFB pellets for usage in an industrial boiler. The low potassium, higher value EFB pellets additionally can also be used in power plants, significantly expanding Detik Aturan's addressable market.

4. DreamEDGE Sdn Bhd

VentureTECH has successfully identified and helped execute business expansion plan for DreamEDGE, a versatile engineering design house by venturing into the naval defense industry. DreamEDGE's first footprint in said industry was marked by winning an international tender and becoming the first ever Malaysian company responsible for the design of Malaysian Navy's littoral combat ship.

5. Prestigious Discovery Sdn Bhd

A joint venture (JV) was established between CMC Group and Prestigious Discovery, where VentureTECH was involved in establishing the relationship. The JV was successful in securing a contract by TNB to manage and coordinate its nation-wide project related to its distribution sites.

2019 Outlook

2019 outlook is expected to be coloured with an even longer list of successful value-creating strategic interventions as VentureTECH strives to bring the investee companies to the next level of development and growth.

This is evident through the formation of a joint venture between CMC Group and Prestigious Discovery, where VentureTECH was instrumental in establishing the relationship. Subsequently, with VentureTECH's market insights and tender advisory role, the JV was successful in securing a contract by TNB to manage and coordinate its nation-wide project related to its distribution sites. It is notable that this is another success story carved shortly after VentureTECH invested in CMC Group. This sets yet another example for an inter-portfolio value creation, made possible by VentureTECH's relentless focus on synergistic investments.

Heading on the volatile nature of the investment realm, 2019 will not be a smooth sail for VentureTECH. The developments in the rail industry is already registered in the company's radar to ensure that the portfolio companies will be given equal opportunities and are able

to benefit from it. Additionally, competition is expected to intensify in the healthcare domain as players are capitalising on the rapid growth of the healthcare tourism sector.

Outlook for Malaysia's economy in 2019 continues to be challenging. Gross Domestic Product (GDP) forecast has been revised downward while the consensus for GDP growth forecast has slightly weakened from 4.7% to 4.3%. Sentiment and confidence have been subdued, proven in the Malaysia Institute of Economic Research (MIER) Consumer Sentiment Index and Business Conditions Index. Furthermore, the confluence of external factors such as the US-China Trade War, Brexit Impasse, and tightening of global liquidity will further weigh in on Malaysia's economic performance.

Regardless of the climate and conditions, VentureTECH as an impact investor will continue to provide patient capital, commitment, and expertise to deserving Malaysian entrepreneurs who share the company's values and mission.



4th February 2018

Chairman of VentureTECH, Tan Sri Dato' Seri Ahmad Ramli Mohd Nor exchanging collaboration agreement with Dato' Wan Ariff Wan Hamzah, Chairman of Ain Medicare Sdn. Bhd. Witnessing the exchange were (right to left):

1. VentureTECH Managing Director, Dr. Norida Abd. Rahman.
2. President & CEO of MIGHT, Datuk Dr. Mohd Yusoff Sulaiman
3. Former Minister for International Trade and Industry, Dato' Sri Mustapa Mohamed
4. Dr. Syed Ibrahim Mohd Ismail, CEO of Ain Medicare



19th March 2018

One of VentureTECH's investee companies, CMC Group, was awarded the MATRADE Export Award 2018 (Youth-Led Exporter Category) during MATRADE Export Day 2018. The award was handed to CMC Group's CEO, En. Hazwan Aliff Abdul Rahman by former Minister for International Trade and Industry, Dato' Sri Mustapa Mohamed.



4th May 2018

Meeting with Deputy Director-General of Health (Research & Technical Support) YBhg. Datuk Dr. Shahnaz Murad. Representatives from VentureTECH include (from left to right) :

1. Dr. Mohamad Sanusi Jangi, Senior Associate
2. Karim Khaidi, Investment Analyst
3. Chief Investment Officer, Mr. Ahmad Redzuan Sidek
4. Managing Director, Dr. Norida Abd. Rahman



16th May 2018

Meeting with Dr. Muhammed Abdul Khalid, the Economic Adviser to the Prime Minister to discuss how VentureTECH can support the government's objectives.



16th May 2018

VentureTECH Managing Director, Dr. Norida Abd. Rahman and Chief Investment Officer, Mr. Ahmad Redzuan Sidek accompanying YBhg. Dato' Mohd Shafiq Abdullah, Deputy Secretary General, Ministry of Health during his visit to Selia-Tek Sdn. Bhd.



14th December 2018

Chief Secretary to the Government of Malaysia, YBhg. Datuk Seri Dr. Ismail Haji Bakar test driving a 3-wheeler during his visit to DreamEdge's office.

List of active portfolio companies below.

**Ain Medicare Sdn Bhd**

Bio-Based

Manufacturing of pharmaceutical products. It is the largest privately held pharma company in Malaysia.

**Clinipath (M) Sdn Bhd**

Bio-Based

Provision of clinical pathology and laboratory service. Ranked 4th in Malaysia.

**Selia-Tek Medical Sdn Bhd**

Bio-Based

Medical device development and manufacturing. First UPM homegrown technology products commercialised for MOH.

**Prestigious Discovery Sdn Bhd**

Emerging Industry

Automation company specialising in the power and transportation industry. Ranked amongst top 15 companies in RTU and SCADA segments by world market report.

**CMC Group Sdn Bhd**

Emerging Industry

Provision of integrated project management services for the public transportation, info-comm, and energy sectors.

**DreamEDGE Sdn Bhd**

Emerging Industry

Provision of comprehensive and top-tier engineering and design solution. Leading design house for automotive and rail segment, as registered under TDA.

**Detik Aturan Sdn Bhd**

Green Tech

Research and production of premium palm EFB (empty fruit bunch) energy pellets. Leading player in producing premium higher value pellets for the Japanese and Korean markets.

**MYBiomass Sdn Bhd**

Green Tech

Development of advance nanocellulose for multiple industries use. A strategic JV with Sime Darby and FGV to optimise local EFB biomass for manufacturing of higher value material and chemical products.

**Extra Built (M) Sdn Bhd**

Green Tech

Research, design and manufacturing of lighting solutions for all purposes. Local player registered amongst top 17 in Malaysia by SME Corp and PEMANDU.

**Maerotech Sdn Bhd**

Green Tech

Maero Tech is a startup now engaging in late stage commercialisation of super thermal insulator (aerogel) for multisectoral applications. Their aerogel has unique properties due to the usage of rice husk as raw input material.

EVENT HIGHLIGHTS 2018

JANUARY

16th January 2018



Meeting with Japan Council for Science, Technology and Innovation (CSTI) Delegation at MIGHT, Cyberjaya



Meeting on Global Health Priorities: An Agenda for Malaysia by United Nations University at MIGHT, Cyberjaya



Honeywell & MIGHT Talk Session - Ignite Passion in STEM and Inspire in Kuala Lumpur

26th January 2018



A lecture on "Making Sense of the 4th Industrial Revolution" by Mr. Rushdi Abdul Rahim in Putrajaya

29th January 2018



Berkeley Lab Working Visit at MIGHT, Cyberjaya

FEBRUARY

4th February 2018



MoU between ABIO and Ain Medicare Sdn. Bhd. in Cyberjaya

5th February 2018



3rd GSIAC Smart Cities Alliance (GSCA) Networking Event at MIGHT, Cyberjaya

6th February 2018



Workshop on International Accreditation of Technology Transfer Professionals at MIGHT, Cyberjaya



Meeting on Assessing Energy Storage/ Batteries Research in MIGHT, Cyberjaya

13th February 2018



The Launching of GSCA Smart Cities Alliance (GSCA) Publication, GSIAC Smart Cities Alliance in conjunction with World Urban Forum (WUF9) in Kuala Lumpur

22nd February 2018



The signing of MoU between Universiti Pertahanan Nasional Malaysia (UPNM), ASELSAN MALAYSIA Sdn Bhd and MIGHT at MIGHT, Cyberjaya

27th February 2018



Talk on the 4th Industrial Revolution by myForesight® in Sepang, Selangor

27th February 2018



Briefing on 4th Industrial Revolution & Launching of the Malaysian Technology Strategic Outlook report at MIGHT, Cyberjaya

27th February 2018



MIGHT 76th Board of Directors' Meeting at MIGHT, Cyberjaya

28th February 2018



Introduction on myForesight® activities to MBA students from China Europe International Business School at MIGHT, Cyberjaya

MARCH

2nd March 2018



Visit from UTHM Final Year Project's Academic and Cooperation Programme at MIGHT, Cyberjaya

9th March 2018



Brainstorming session on MIGHTYMINDS Proposal at MIGHT, Cyberjaya

12th March 2018



Industrial Visit to Free The Seed Sdn Bhd Factory in Kedah

12th March 2018



MIGHT's Board Special Visit to First Solar Malaysia Sdn Bhd in Kedah

17th March 2018



Famelab - Southern Heat at UTM, Johor

14th March 2018



Visit by King Mongkut University, Bangkok at MIGHT

19th March 2018



MoU exchange between MIGHT and Qatar Foundation in Qatar

16th March 2018



1st Annual General Meeting (AGM), Malaysia Rail Industry Corporation (MARIC) at MIGHT, Cyberjaya

20th March 2018



Training on Scenario Planning by myForesight® and MIGHT Academy at MIGHT, Cyberjaya

25th March 2018



MIGHT Partnership Golf 2018 at Palm Garden Golf Club, Selangor

28th March 2018



Groundbreaking Ceremony at Kulim Hi Tech Park Phase 4 with Jinjing Holding Group (Malaysia) Sdn Bhd in Kedah

26th March 2018



3rd iCON Hackathon 2018 : Blockchain – Tokenisation of Employee Reward System a Partnership with Tenaga Nasional Berhad at MIGHT, Cyberjaya

31st March 2018



Famelab 2018 - Central Heat at Asia Pacific University of Technology & Innovation (APU), Universiti Kuala Lumpur

27th March 2018



International Construction Transformation Conference 2018 in Kuala Lumpur

APRIL

3rd April 2018



Malaysian Shipbuilding Ship / Repair Industry (SBSR) 4.0 Awareness Forum at MIGHT, Cyberjaya

5th April 2018



A talk on World Halal Conference 2018 - "Aligning Halal Industry to Industry 4.0" at Mandarin Oriental, Kuala Lumpur

17th April 2018



Malaysia TechnoMart on Rail industry and launching of Dedicated Malaysia Rail Exhibition at MIGHT, Cyberjaya

6th April 2018



Motivation Talk- 'Seronoknya Bekerja' by Tuan Elyas Ismail at MIGHT, Cyberjaya

18th April 2018



An MoU signing between MIGHT - Aselsan at Defence Services Asia 2018, Kuala Lumpur

10th April 2018



Train the Trainers Workshop on Scenario Planning for the Public Sector (MAMPU) at MIGHT, Cyberjaya

18th April 2018



MIGHT presented award to BAE System in recognition of the commitment and contribution to STEM education in Malaysia at DSA 2018, Kuala Lumpur

25th April 2018



Special Talk Session: 8 “Hidden” Roles of a Successful Futurist Team by Dr. Liz Alexander at MIGHT, Cyberjaya

30th April 2018



Roundtable Dialogue with Zayed International Foundation for the Environment in Kuala Lumpur

26th April 2018



China Academy of Electronics and Information Technology (CAEIT)'s Official Visit to Malaysia

27th April 2018



Embracing Industry 4.0: Rail Industry "What's Next for Local Rail Industry" at MIGHT, Cyberjaya

MAY

3rd May 2018



FameLab Final Malaysia 2018 at Mandarin Oriental, Kuala Lumpur

4th May 2018



MIGHT 77th Board of Directors' Meeting at MIGHT, Cyberjaya

5th May 2018

Technomart Malaysia - Private tour for Ministry of Transport led by Secretary General YBhg. Datuk Seri Hj. Saripuddin Hj. Kassim and accompanied by CEO of KTMB, Mr. Mohd Rani and Dr. Kang, General Manager of Railway Assets Corporation at MIGHT, Cyberjaya

16th May 2018

Special visit from UiTM-MITRANS to MIGHT, Cyberjaya

JUNE

7th June 2018

Famelab International Final 2018 in United Kingdom. Dr. Siti Khayriyyah from USM won the Science Communicator World Champion

26th June 2018

MIGHT 23rd Annual General Meeting at MIGHT, Cyberjaya

JULY

4th July 2018

Prime Minister's Department Open House 2018 in Putrajaya

5th July 2018

Blockchain Regulatory Report Launch and Forum at Renaissance Hotel, Kuala Lumpur

10th July 2018



A white paper presentation on the technical applications of Blockchain to the United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) deliverables at MIMOS, Kuala Lumpur

13th July 2018



Club MIGHT's Raya Gathering at MIGHT, Cyberjaya

16th July 2018



Seminar on "Challenges and Opportunities in Reducing Urban Carbon Emissions in Future Cities", a joint effort between NanoMalaysia, Lux Research Inc. and MIGHT

18th July 2018



Training on Scenario Planning by myForesight® and MIGHT Academy at MIGHT, Cyberjaya

19th July 2018



A special interview by Astro Awani with Professor Dr. Ismail Serageldin at MIGHT, Cyberjaya

25th July 2018



1st International Conference on Safe Biodegradable Packaging Technology 2018 (SAFEBIOPACK 2018) at MIGHT, Cyberjaya

AUGUST

2nd August 2018



PROCOM 2018 - Software Programming Innovation Competition, co-organised with Multimedia University, Universiti Teknologi PETRONAS (UTP) and supported by MIGHT at MIGHT, Cyberjaya

9th August 2018



Networking session with UK delegates & Malaysian Rail Industry Corporation (MARIC) at MIGHT, Cyberjaya

9th August 2018



2nd Training on Scenario Planning by myForesight® and MIGHT Academy at MIGHT, Cyberjaya

10th August 2018



Meeting with participants of the International Science Technology and Innovation Centre for South-South Cooperation Under the Auspices of UNESCO (ISTIC) STI Policy and Management Workshop 2018 at MIGHT, Cyberjaya

10th August 2018



Malaysia Blockchain & Distributed Ledger Technology Outlook 2019 Report: Blockchain in Government Consultative Session at MIGHT, Cyberjaya

14th August 2018



Leaders in Innovation Accelerator Programme (LIA Malaysia 2018) organised by Newton-Ungku Omar Fund, Oxentia, MIGHT and Royal Academy of Engineering at MIGHT, Cyberjaya

15th-16th August 2018



Blockchain in Government - Empowering Public Sector with Streamlined Data Distribution at MIGHT, Cyberjaya

16th August 2018



The 20th Special Working Group Meeting on the Singapore - Kunming Rail Link (SWG-SKRL) in Batu Gajah, Perak

27th August 2018



Dr. Raslan Ahmad, presenting at the plenary session on "Smart Cities: Local Intervention Through Partnership" at Royale Chulan, Kuala Lumpur

SEPTEMBER

4th September 2018



Datuk Dr. Mohd Yusoff Sulaiman giving keynote titled "Malaysia: Aerospace Vision 2030" for Selangor Aerospace Action Plan Workshop

14th September 2018



MIGHT 78th Board of Director's Meeting in Bangi, Selangor

18th September 2018



Bombardier and MIGHT signed an agreement to develop rail industry expertise Malaysia in Berlin, Germany

20th September 2018



MIGHT Talk Series: The State of Digital Security at MIGHT, Cyberjaya

27th September 2018



Humanising Leadership in 4IR by Mr. Rusydi Abdul Rahim at MIGHT, Cyberjaya

24th September 2018



Courtesy call to Datuk Mohamed Hazlan Mohamed Hussain, President & CEO of Prasarana

30th September 2018



Special Visit to Kulim High Tech Park, Kedah

25th September 2018



Malaysia Blockchain and Distributed Ledger Technology Outlook 2019 Report: Blockchain and Malaysian Industry Session at MIGHT, Cyberjaya

OCTOBER

3rd October 2018



MIGHT Talk Series : "Waste to Wealth: Battery Refurbishment / Regeneration" at MIGHT, Cyberjaya

4th October 2018



Moving Forward with the New National Car Project #ReadySetGo! at MIGHT, Cyberjaya

12th October 2018



New National Car Project, Coordination Meeting at MIGHT, Cyberjaya

9th-10th October 2018



Training on Scenario Planning Workshop by myForesight® and MIGHT Academy at MIGHT, Cyberjaya

16th October 2018



Scenario Planning Workshop-National Anti-Corruption Plan 2018-2023 at MIGHT, Cyberjaya

10th October 2018



Leaders in Innovation Fellowships LIF4 Follow-on Event-Malaysia. A programme under Newton Ungku Omar Fund (NUOF), MIGHT, Royal Academy of Engineering and Oxentia at MIGHT, Cyberjaya

17th October 2018



An MoU Exchange between MIGHT, TNB Energy Services Sdn Bhd (TNBES) and Senai-Desaru Expressway (SDE) at International Greentech & Eco Products Exhibition & Conference (IGEM 2018)

17th October 2018



Dr. Raslan Ahmad as a speaker during Oracle Session on World Energy Cities Partnership at International Greentech & Eco Products Exhibition & Conference (IGEM 2018)

18th October 2018



Malaysia Blockchain & DLT Outlook 2019: Talent Development at MIGHT, Cyberjaya

18th October 2018



Visit From Sri Lanka Institute of Administration (SLIDA) at MIGHT, Cyberjaya

22nd October 2018



TechnoMart Malaysia (IoT) - Social Healthcare Services at MIGHT, Cyberjaya

24th October 2018



Special Visit to SilTerra, Kedah

24th October 2018



TechnoMart Malaysia - Adding Value Through Blockchain, Potential Areas for Malaysia at MIGHT, Cyberjaya

25th October 2018



TechnoMart Malaysia
- Digital Oil and Gas at MIGHT, Cyberjaya

30th October 2018



TechnoMart Malaysia – Smart Mobility
and Smart Energy at MIGHT, Cyberjaya

25th October 2018



Malaysia Software Testing Hub Programme
(MSTH) IV and V Industry Outreach
Programme at MIGHT, Cyberjaya

NOVEMBER

2nd November 2018



Global Environment Facility 6 Sustainable
Cities Development (GEF6SCD) National
Steering Committee Meeting at MIGHT,
Cyberjaya

26th October 2018



A visit by the Sudanese Delegation at MIGHT,
Cyberjaya

3rd November 2018



Kuala Lumpur Engineering and Science Fair
(KLESF 2018) at Mines International Exhibition
& Convention Centre, Selangor

7th November 2018



5th National Marine Industries Forum 2018 (NMIF2018) "Navigating The Wave of Industry 4.0: Towards Attaining Competitiveness" at Kuala Lumpur Convention Centre (KLCC)

12th November 2018



Appreciation Lunch and Farewell to Joint Chairmen MIGHT (Government) and Board of Directors MIGHT in Kuala Lumpur

19th November 2018



Special Visit by CIMB Islamic Team at MIGHT, Cyberjaya

23rd November 2018



Special Visit by Department of Science & Technology Studies University of Malaya at MIGHT, Cyberjaya

24th November 2018



CIMB Foundation RoboCamp 2018 in Langkawi, Kedah

DECEMBER

6th December 2018



Razak School of Government (RSOG) - Young Leaders Forum 2018 at Marriott Hotel, Putrajaya

6th December 2018



TechnoMart Malaysia: Experiencing Industry 4.0 at MIGHT, Cyberjaya

18th December 2018



TechnoMart Malaysia : Malaysian Rail Industry at MIGHT, Cyberjaya

14th December 2018



New National Car Project Coordination Meeting - Chaired by YBhg. Datuk Seri Ismail Bakar, Chief Secretary to the Government of Malaysia at MIGHT, Cyberjaya

21st December 2018



Staff Appreciation Day & Year End Townhall 2018 at MIGHT, Cyberjaya

17th December 2018



MIGHT Consultation 2018: Riding on The Next Wave of High Technology. Dialogue between YAB Prime Minister with High Technology Industry Players at MIGHT, Cyberjaya

CORE ACTIVITIES



GLOBAL STRATEGIES & OUTREACH

GSIAc SMART CITIES ALLIANCE (GSCA) NETWORKING EVENT WUF9



MIGHT as a Secretariat of GSIAc Smart Cities Alliance (GSCA) led a Networking Event during the World Urban Forum 9 (WUF9) on 13th February 2018 under the theme "Measurement Index and Dashboards for measurement of progress and success towards achieving Sustainable Development Goals in the establishment of smart sustainable cities." The objectives of this networking event is mainly to raise the awareness on the presence of GSCA Members at the global platform, provide networking opportunity among the GSCA Members with the external stakeholders as well as introducing their new members.

This event was the perfect platform for GSCA to share and advertise their inaugural publication. They were able to solicit inputs by subject matter experts on the Measurement Index and Dashboard for Smart and Sustainable Cities. More than a hundred participants attended the event—comprising local and global stakeholders with various and speakers within their domain areas— spearheads the rollout of their smart and sustainable cities initiatives.



20TH SPECIAL WORKING GROUP MEETING ON THE SINGAPORE - KUNMING RAIL LINK



The 20th Meeting of the Special Working Group on the Singapore-Kunming Rail Link (SWG SKRL) was held on 16th – 18th August 2018 in Ipoh, Perak. The meeting was chaired by the Secretary-General, Ministry of Transport Malaysia and attended by delegates from Cambodia, Indonesia, Malaysia, Myanmar, Singapore, Thailand, Viet Nam and the ASEAN Secretariat, as well as representatives from the Asian Development Bank (ADB), United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) and the International Union of Railways (UIC). The meeting was preceded by technical visits to the Malaysia Railway Academy (MyRA), Electric Train Service (ETS) Depot and Central Workshop.

MIGHT's involvement in SWG SKRL is a spin-off from the TechnoMart: Rail Industry conducted on 17th April - 4th May 2018 where the Ministry of Transport demonstrated their recognition of MIGHT and MARIC for the development of the local rail industry. MIGHT was invited to give a talk on the Malaysian Rail Industry and local rail capabilities.

STUDY ON THE MALAYSIAN COMPOSITE SCIENCE AND TECHNOLOGY INNOVATION INDEX (M-COSTII)

MIGHT conducted a study to evaluate Malaysia's performance in science and innovation capacities. The study was undertaken in close collaboration with the Korea Institute of S&T Evaluation and Planning (KISTEP) as the methodology used in Malaysia's evaluation was an adaptation of Korea's Composite Science and Technology Innovation Index (COSTII).

COSTII is a tried and tested science and technology evaluation tool currently supporting Korea's 3rd Science and Technology Basic Plan. Hence, the Malaysian variation of the COSTII methodology was termed M-COSTII.

During the study, there were vigorous exchanges of ideas among the study teams from both MIGHT and KISTEP, particularly around the areas of data definitions and computation methodology. Both teams have also visited Korea and Malaysia respectively for such exchanges, as well as paying homage to each other's organisation.

The outcome of the study has resulted in a country benchmarking report reflecting the science and innovation capacities of Malaysia in comparison with OECD countries.



M-COSTII workshop with KISTEP at MIGHT



MIGHT Delegation on Study Visit to KISTEP

UK PROSPERITY FUND

The UK Prosperity Fund focuses on the development of urban environments that enhance inclusive economic growth, and reduce poverty and gender inequality, promote clean air and safe environments, and increase resilience to wards disasters. A well planned urban development will result in higher rates of sustainable advancements with, greater investment flows and greater trade flows. In Melaka and Iskandar, the development will mainly focus on the transportation sector, with MIGHT appointed as the National Knowledge Partner.

THE KEY HIGHLIGHT ACTIVITIES:

Presentation to the Chief Minister of Melaka, Melaka Smart City Council



Transition Training and Dialogue under the Global Future Cities Programme funded by the United Kingdom Foreign and Commonwealth Office (UK FCO)



Conducted Charrette sessions for each focus group discussion

Presented reports for Transition Training and Dialogue under the Global Future Cities Programme



INDUSTRY ENGAGEMENT & DEVELOPMENT

Facilitate stakeholders in assessing technology advice/inputs, prioritisation of technology, cross-sectoral convergence and bridging with industry players. By undertaking collaborative and business platforms in strategic focus areas namely rail, automotive, advanced material, ship and aerospace; MIGHT assists in realising business opportunities for local industry players and local technologies

The output comprises industry roadmaps, high technology industry reports, industry database, technology domain expert/industry skills enhancement projects, high impact private-public partnership projects, policy advice and Government mandated programmes

INDUSTRY ENGAGEMENT & DEVELOPMENT

MALAYSIAN TECHNOLOGY STRATEGIC OUTLOOK 2017/2018 : EMBRACING INDUSTRY 4.0



Launching of Malaysian Technology Strategic Outlook 2017/2018 on February 2018

Malaysian Technology Strategic Outlook 2017/2018: Embracing Industry 4.0 was launched in February 2018. The report is intended to promote awareness on the latest development as well as challenges that are shaping the local and global high technology landscape

The report is the focal reference for high technology industry in Malaysia and it disseminates information on Industry 4.0 to various stakeholders including Ministries, Government agencies, industry players and the public

MIGHT CONSULTATION

MIGHT Consultation (MC) is the key engagement platform for Malaysia's high-technology industry stakeholders. It is devoted to enhancing Malaysia's holistic development in various technology areas and it plays a strategic role in shaping Malaysia's future by setting an action agenda to strengthen Malaysia's competitiveness.

Throughout the years, MC has touched various development areas to raise the odds of success for Malaysia's high-tech industry, by creating a collaborative effort between the public and private sector.

MIGHT CONSULTATION (MC) IS AN INNOVATION PLATFORM FOR:

-  Creating an idea factory - Providing strategic inputs for the government and high-tech industries
-  Initiating policy decisions and leadership for innovation and sustainable development
-  Addressing technology gaps
-  Identifying groundbreaking high-tech innovation areas
-  Accelerating the pace of change in high technology agenda through policy formulation, consultation, future talent development and business opportunities

MIGHT CONSULTATION 2018

MC2018 aptly championed the theme of "Riding the Next Wave of High Technology", fully embraced the Fourth Industrial Revolution (4IR) and the Sustainable Development Goals (SDG) agendas. In order to prepare ourselves for the next wave of high-technology industry, the high technology industry 2.0 agenda will be the centre stage to drive the high technology industry in Malaysia to greater heights.

MC2018 was to help catalyse these progresses by bringing together thought leaders to identify the emerging forces transforming the high-tech industry. MC2018 has gathered approximately 60 industry players from various industry sectors, including Energy/Oil & Gas, Construction/Properties Development, ICT, Engineering & Services, Financial, Biotechnology/Plantation, Pharmaceutical, Composite & Semiconductor and Mobility. It was attended by the Prime Minister of Malaysia and Patron of MIGHT as well as Ministers and Secretary Generals from Ministry of Economic Affairs, Ministry of Entrepreneur Development, Ministry of Energy, Science, Technology, Environment & Climate Change and Ministry of International Trade & Industry.

The key outcomes of MC2018 were for MIGHT to develop the National High Technology 2.0 Agenda with direct involvement of all stakeholders, particularly the industry players.

MIGHT was mandated to serve the nation in advancing competency in high technology through partnership. Hence, it is pertinent for both the government and industry players to leverage on MIGHT's platform in galvanising change and foster alignment on any high technology mission. MC should be the significant channel for the Prime Minister to regularly convey his mandates and aspirations to the stakeholders especially the industry players. One of the attempts in encouraging this is through the introduction of E-Government programmes, which will allow the ease of doing business across the public sector and improve dissemination of information to the public.

Other key discussions during MC2018 included the need to explore and apply wider application of microchip technology, i.e. in the areas of security, environment and communication.

It was also agreed that the National Science Council should be reactivated with relevant parties for better R&D coordination. This could fully realise Malaysia's techno-commercial potentials and encourage more research activities based on industry demands. This will also support the local SMEs in developing new technology especially in overcoming the limitations around technical competency and talent development.

MIGHT CONSULTATION



MIGHT INTEREST GROUP (MIG) : BATTERIES / ENERGY STORAGE



The Might Interest Group (MIG) is a platform by MIGHT for discussions on industry development. The discourse on "State Battery/ Energy Storage in Malaysia" involved representatives from Universiti Pertahanan Nasional Malaysia (UPNM), Universiti Teknikal Malaysia Melaka (UTeM), Universiti Teknologi Malaysia (UTM), Universiti Teknologi MARA (UiTM) and SIRIM

Malaysia used to be the 11th top global exporter for batteries in 2016. It was foreseen that even though if Malaysia had a high deficit turnout in international trade, this deficit would create opportunity in the supply of batteries, to help meet the powerful demand from local businesses and consumers. Through the discussion, it was agreed upon that a few aspects that would need to be looked at involved market opportunity, technology landscape, Intellectual Property (IP) commercialisation, technology roadmap, strategy development and innovation ecosystem

HIP5 : RAIL INITIATIVE

Under the SME Masterplan 2012-2020, the High Impact Programme 5 (HIP 5) was designed with the intention to provide targeted assistance to potential high growth firms in becoming home grown champions. Among the identified areas is the rail sector, aimed to cultivate and integrate potential Malaysian SMEs into global rail supply chain. Under this programme, SMEs will be given assistance in the form of capacity and capability building as well as facilitation to grow in the rail industry, along with RM500,000 matching grant to strengthen the SMEs' business proposition.

The objective of HIP 5: Rail Initiative is aimed at creating up to six homegrown champions in the rail industry through a targeted approach—by building up the capability and capacity of participating companies through development programmes, provision of market intelligence and enhancement in market access to create high growth SMEs in accordance to the SME Masterplan.

MIGHT was appointed by SME Corp as the programme manager to undertake HIP 5: Rail Initiative programme due to our vast experience and knowledge in the Malaysian rail industry.

The programme under MIGHT commenced back in February 2018 and at present, six companies have been continuously facilitated and nurtured for further development in term of business, competencies and facility enhancement. The six companies are within the first batch that had undergone selection processes of company assessment, business and proposal pitching.

Due to overwhelming responses from companies related to the rail industry, the programme was expanded with additional allocated grant by SME Corp to increase the number of participating companies to ten. An immersion programme, which is a 2-month intensive training programme has been crafted between MIGHT and Bombardier with the intention to provide the participating companies with an opportunity to learn about industry best practices and industry standards as well as the importance of market positioning in business. With these assistances, the participating companies could be fostered to push their business up to double digit growth in terms of revenue generation.



18th September 2018 - MoU signing between MIGHT and Bombardier Transportation, at Inno Trans in Berlin, outlining collaboration on developing homegrown rail industry expertise

HIP5 : RAIL INITIATIVE



HIP5 Steering Committee members : MITI, MIGHT, MIDA, MATRADE, SPAD and SME Corp.



23rd January 2018 – HIP5 Steering Committee Meeting chaired by Datuk Hashim, the then CEO of SME Corp.



Technical committee meeting discussing on proposal by participating companies



Site visit to a participating company to assess on current capability and competencies



Launching and briefing to SMEs on the HIP 5 : Rail Initiative Programme



Pitching session by SMEs for selection

GREEN ENERGY PROGRAMME (GEP) FOR HIGHWAYS



MIGHT is facilitating TNB Energy Services (TNB ES) to mainstream Green Energy Programme (GEP) for all Concession Companies under the custodian of Malaysia Highway Authorities (MHA) and Ministry of Works (MoW) to align with the Malaysia Green Highway Index (MyGHI). The Green Energy Programme encompasses Energy Efficiency (EE) and Renewable Energy (RE) via the integration of solar PV, Energy Management System (EnMS) and Electric Vehicle (EV) Charging Station.

KEY HIGHLIGHT ACTIVITIES:

Implemented GEP walkthrough audit and audit report presentation to LLM, Senai Desaru Expressway (SDE), PROLINTAS Guthrie Corridor Expressways (GCE) and LKSA, PLUS and KESAS

MoU signed with PROLINTAS and Senai Desaru Expressway (SDE) at ISEM 2018

Letter of Award to TNBES from PROLINTAS and SDE for the retrofitting work



Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin (tiga, kanan) bersama wakil-wakil perkhidmatan Memorandum Persefahaman (MoU) Tenaga Nasional Bhd (TNB) bersama Kumpulan Industri Konjungsi bagi Teknologi Tinggi Malaysia (MIGHT) dan Senai Desaru Expressway Bhd (SDE) bersama Penerimaan & Penetapan 'International GreenTech & Eco-Products (IGET 2018)' di Pusat Konvensyen Kuala Lumpur (KCC), semalam. Turut hadir Timbalan Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Saravesh Murug Mahalingam (kanan), Pengarah Urusan TNB Energy Services Sdn Bhd (TNBES) Dr Ir Ahmad Jaafar Abd Hamid (dua), Presiden dan Ketua Pegawai Eksekutif Kumpulan Industri Konjungsi bagi Teknologi Tinggi Malaysia (MIGHT) Datuk Dr Mohd Yusoff Sulaiman (dua, kiri), Presiden dan Ketua Pegawai Eksekutif Tenaga Nasional Bhd (TNB) Datuk Seri Ir Azman Mohd Siga, kiri dan Ketua Pegawai Eksekutif Senai Desaru Expressway Bhd (SDE) Jamal Abdul Nasir Taharim (dua, kanan). - Foto SCRINAMA.

TNBES teroka potensi projek lebuh raya hijau
 Mahamud Abdul Aziz
 mahamud_azi@tep.com.my

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KUALA LUMPUR: TNB Energy Services Sdn Bhd (TNBES), anak syarikat milik penuh Tenaga Nasional Bhd (TNB) bekerjasama dengan Malaysian Industry-Government Group for High Technology (MIGHT) dan Senai-Desaru Expressway Bhd (SDEB) untuk Program Tenaga Hijau (GEP) di sepanjang Lebuh Raya Senai-Desaru (E22) di Johor.

Satu memorandum persefahaman (MoU) dimeterai ketiga-tiga pihak hari ini dengan TNBES diwakili Pengarah Urusannya, Dr Ir Ahmad Jaafar Abd Hamid; MIGHT oleh Presiden dan Ketua Pegawai Eksekutifnya, Datuk Dr Mohd Yusoff Sulaiman dan SDEB oleh Ketua Pegawai Eksekutifnya, Jamal Abd Nasir Taharim.

TECHNOMART

TECHNOMART Malaysia is MIGHT's customary programme that highlights technology and local businesses through special programmes comprising of showcases, briefings and dialogues, in collaboration with government institutions, small industries, multinational corporations, associations, universities, investors and others, that strive to support industrial development and promote business opportunity in the technology sector for the benefit of the nation.

ACTIVITIES



TALK SERIES



PITCHING SESSIONS



EXHIBITIONS



B2B



SPECIAL MEETINGS

TECHNOMART MALAYSIA ACTS AS A MEETING POINT FOR VARIOUS STAKEHOLDERS TO SET THE PACE IN OUR ADVANCED WORLD OF TECHNOLOGY :



A gathering place for those who thrive on technologies for business



A platform for SMEs and entrepreneurs to showcase their products and services to stakeholders.



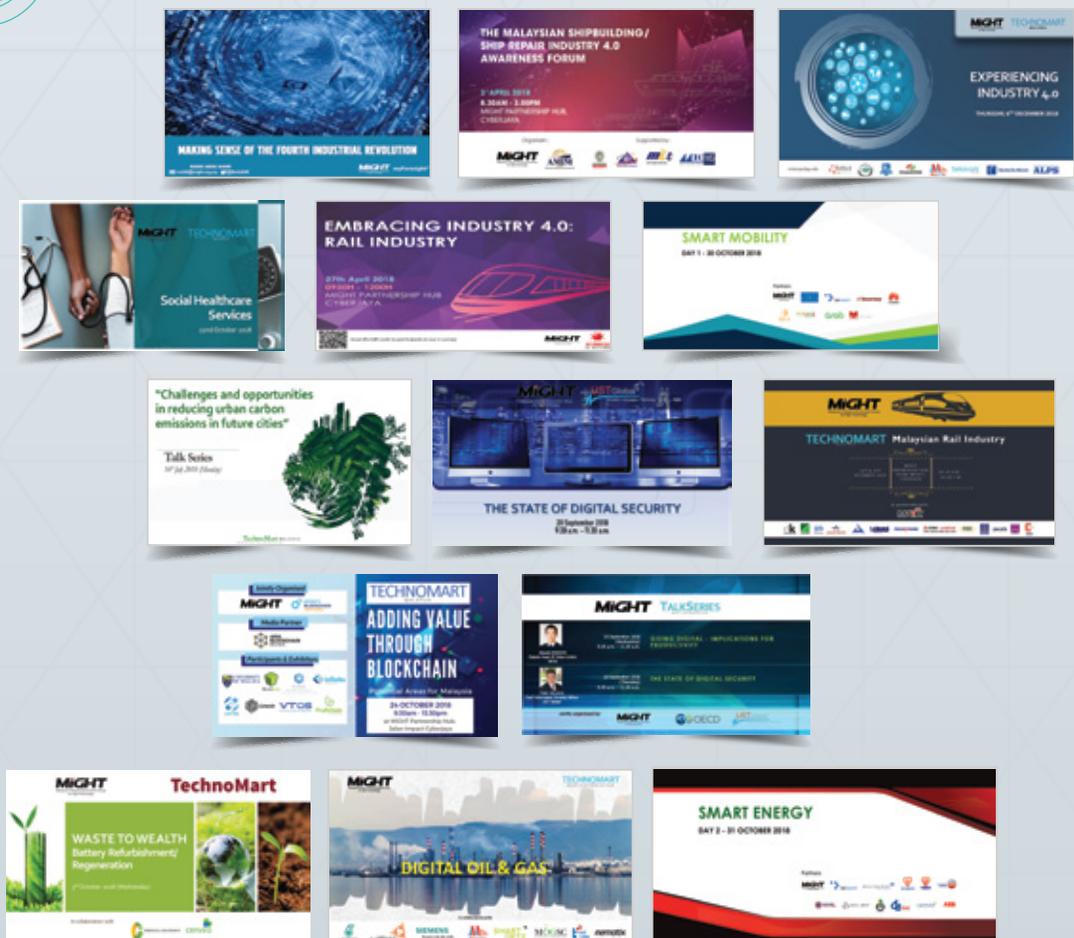
Knowledge exchange and networking among stakeholders

TALKSERIES

MIGHT has been instrumental in becoming a conduit and platform that allows different groups of partners to work together. MIGHT, being a knowledge-intensive organisation, has always stayed abreast with the latest news and knowledge, especially involving the promotion of 4IR areas.

MIGHT took the liberty of collaborating with various stakeholders in organising these thematic TalkSeries. Throughout 2018, thirteen (13) TalkSeries were organised featuring more than 50 eminent speakers and panellists from various industries. While some of the TalkSeries were part of the TechnoMart Programme, others were stand-alone TalkSeries organised in fulfilling the urgent need of the industry and policy-makers.

These TalkSeries were attended by policy makers, local players, R&D institutions, universities as well as NGOs.



TECHNOMART & TALKSERIES ACHIEVEMENTS FOR 2018



Reference :



<p>3rd April 2018 Awareness Forum on SBSR</p> 	<p>3rd - 4th April 2018 Kolokium Pendidikan Stem 2018 Zon Sarawak</p> 	<p>27th April 2018 What's Next for Local Rail Industry : Towards a National Rail Hub</p>  	<p>4th May 2018 High Level Meeting with the Secretary General of MoT</p> 
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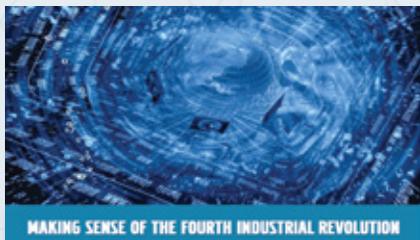
QUARTER 3

<p>16th July 2018 Challenges & Opportunities in Reducing Urban Carbon Emissions in Future Cities - A joint effort between Lux Research Inc. and MIGHT</p> 	<p>29th June 2018 Mini TechnoMart IoT & MIGHT AGM</p> 	<p>20th-22nd June 2018 51st TIP Meeting & OECD Conference - Workshop: How To Leverage The Potential of The Digital Transformation for Innovation and Research?</p> 	<p>6th June 2018 Visit and Meeting with UST Global</p> 
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<p>25th October 2018 TechnoMart IoT on Oil & Gas</p>  	<p>30th October 2018 TechnoMart on Smart Mobility</p>  	<p>31st October 2018 TechnoMart on Smart Energy</p>  	<p>2nd-4th November 2018 Kuala Lumpur Engineering & Science Fair 2019</p>  
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<p>18th-20th December 2018 TechnoMart Rail</p>  	<p>6th December 2018 TechnoMart on Experiencing Industry 4.0</p>  	<p>4th-7th December 2018 52nd TIP Meeting & OECD Conference Workshop: Insights From Reseach On Novelty In Science, GenderInclusiveness and AI</p> 
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TALKSERIES : MAKING SENSE OF THE FOURTH INDUSTRIAL REVOLUTION



Speaker:

- 1) Mr. Rushdi Abdul Rahim
- MIGHT

Date : 9th February 2018

Programme Overview:

The wave of 4IR will not only impact the businesses, but the operation and governance aspects as well. The 'disruptive' technologies that have been identified emerging from this revolution, if not embraced well, could create an undesirable impact on our lives. However, these disruptions can also provide positive tidings to our businesses and networks.

This maiden TalkSeries held by MIGHT was aimed at creating awareness on 4IR, especially in the education sector. This talk was attended by officials from various agencies and institutions under the Ministry of Education.



TALKSERIES : THE MALAYSIAN SBSR INDUSTRY 4.0 AWARENESS FORUM



List of speakers:

- 1) Ms. Alia Md Saleh
- Ministry of International Trade and Industry
- 2) Mr. Abdul Razak Ismail
- MTCMS Design Sdn Bhd
- 3) Dr. Ahmad Faisal Mohamad Ayob
- Universiti Malaysia Terengganu
- 4) Mr. Sim Hon Wai
- MDT Innovations Sdn Bhd
Noor Asha Abdul Rashid
- Bureau Veritas (M) Sdn Bhd
- 5) Mr. Nazery Khalid
- Association of Marine Industries of Malaysia (AMIM)

Date : 3rd April 2018

Programme Overview:

MIGHT has been instrumental in the industrial development of the shipbuilding and shiprepair industry. This forum was a joint effort of MIGHT and AMIM. The objectives of the forum were:

1. To gauge the readiness of the SBSR industry players towards Industry 4.0.
2. To create awareness on Industry 4.0 to the SBSR industry.
3. To support the Government in strengthening the country's industrial competitiveness and modernisation to better ensure the sustainable growth of the SBSR sector.
4. To promote government and industry initiatives towards the development of the SBSR industry in Industry 4.0.



TECHOMART & TALKSERIES : WHAT'S NEXT FOR LOCAL RAIL INDUSTRY -TOWARDS A NATIONAL RAIL HUB



List of speakers:

- 1) Mr. Syed Kamal Muzaffa
- MIDA
- 2) Prof Dr. Khalid Hasnan
- ICoE - Rel
- 3) Mr. Hazwan Alif Abdul Rahman
- CMC Engineering
- 4) Dr. Liew Kan Ern
- AMIC

Date : 27th April 2018

Programme Overview:

The talk features a plenary session that deliberated the local rail industry prospects. Prominent panellists shared their thoughts and insights on Industry 4.0 opportunities and challenges that include Investment, Supply Chain, Talent Development, Research & Technology (R&T) and the Future. This talk was designed to bring together key stakeholders to share ideas, discuss, expand their network and explore business opportunities.



TALKSERIES : CHALLENGES AND OPPORTUNITIES IN REDUCING URBAN CARBON EMISSIONS IN FUTURE CITIES



List of speakers:

- 1) Mr. Tim Grejtak
- LUX Research Inc.
- 2) Mr. Mohamad Hafiz Zolkipli
- NanoMalaysia

Date : 16th July 2018

Programme Overview:

- 1) Rapid technology and industry improvement are driving the development of future cities that integrate efficient technologies and applications across the urban value chain to cost-effectively increase convenience, connectivity, energy efficiency, and environmental sustainability.
- 2) Recognising the highlighted trend and its importance, MIGHT, LUX Research Inc. and NanoMalaysia Berhad organised this knowledge sharing initiative through our TechTalk Series.



TALKSERIES : GOING DIGITAL – IMPLICATIONS FOR PRODUCTIVITY



List of speakers:

- 1) Mr. Atsushi Higuchi
- OECD
- 2) Mr. Kelvin Poh
- OECD Publishing Representative

Date : 19th September 2018

Programme Overview:

MIGHT was honoured to be collaborating with OECD to share interesting technologies and solutions in the arena of the digital industry. The TalkSeries included some insights and updates for the industry and government stakeholders regarding the implication of digitalisation towards productivity.



TALKSERIES : THE STATE OF DIGITAL SECURITY



List of speakers:

- 1) Mr. Yair Bar-Touv
- APAC Solutioning Digital Security, UST Global
- 2) Mr. Alvaro Del Hoyo
- Cyberproof™

Date : 20th September 2018

Programme Overview:

As countries and corporations across the globe become increasingly digital they also become more vulnerable to cyber threats. Cyber attacks are proliferating in size, sophistication and cost. Examples include:

- The data breach involving Astro and the Ministry of Education were examples of high profile attacks in Malaysia, with many other attacks happening around the globe this year alone.
- Emerging paradigms such as IoT and autonomous vehicles are plagued by security concerns. These days, almost any device with a chip is proven to be hackable.
- IP wholesale thefts, ransomware and DDos attacks are still growing in numbers.
- Terrorists and hacktivists continue launching cyber attacks around the world.
- The Panama Papers leaked 11.5 million documents that detail financial and attorney-client information, leading to the resignation of Prime Ministers of Pakistan and Iceland, Nawaz Sharif and Sigmundur Gunnlaugsson.

TALKSERIES : THE STATE OF DIGITAL SECURITY (CONTINUED)

Digital security is an aspect that must be taken seriously. Fortunately, cyber defense in handling/preventing such attacks is also improving. MIGHT has collaborated with UST Global in featuring global experts to share interesting technology and solutions in the arena of digital industry.



TALKSERIES : WASTE TO WEALTH – BATTERY REGENERATION & REFURBISHMENT



List of speakers:

- 1) Dr. Sivapalan Kathiravale
- EPIC
- 2) Mr. Pedro Alvarez
- MACBATEC
- 3) Mr. Michael Green
- MACBATEC

Date : 3rd October 2018

Programme Overview:

Waste to Wealth is about transforming and/or converting waste into a valuable commodity. In general, Malaysia promotes waste recycling, recovery and treatment activities by individuals/industries to move towards a more sustainable solution in order to assist in the environmental waste management initiative.

In this aspect, the Talk focused on the oldest type of rechargeable battery - lead acid battery, which was invented in 1859 by French physicist Gaston Planté. However, many of these batteries are being discarded or disposed before they “truly” reach their end-of-life (EOL), and without being properly inspected and/or evaluated. With proper evaluation, many of these batteries can be restored via refurbishment/regeneration process.

“Dead Battery Regenerating” is a leading-edge technology used for refurbishment/regeneration of lead acid batteries, and this system is capable of restoring dead lead acid batteries up to 80% - 90% of a new battery’s energy level.

The “Waste To Wealth Seminar: Battery Refurbishment/Regeneration” was organised by MIGHT in collaboration with various partners, where international speakers were invited to share their insights on the topic.



TECHNOMART & TALKSERIES : SOCIAL HEALTHCARE SERVICES



List of speakers:

- 1) Dr. Mazlan Abbas
- FAVORIOT
- 2) Mr. Mohd Azlin Kamarulzaman
- Lunastella Agency
- 3) Mr. Brian Bong
- SMARTOPTZ

Date : 22nd October 2018

Programme Overview:

According to WEF, "The healthcare system of the future will look very different, with a crucial change being the move to 'consumer-centric' healthcare, allowing citizens to have much more involvement in managing their healthcare and that of their families." As the impact of the rising 4th Industrial Revolution, public is expecting better wellness and health initiatives in view of the increase in sedentary lifestyle, convergence of aging population, etc. Global industries are experiencing major changes with multiple transitions on the way things are done. Rapid improvement on connectivity (internet access) is transforming the way we control and manage our health.

The key advances:

- 1) Adoption of smartphones with the ability to sense & diagnose
- 2) Patients equipped with information on their health condition
- 3) Machine Learning, Cognitive Computing & AI
- 4) Automation - chat bots assisting surgery
- 5) Wearable devices - personal health data

This TalkSeries featured eminent experts who shared their experiences in developing smart products and services to cater the needs of the industry today.



TECHNOMART & TALKSERIES : ADDING VALUE THROUGH BLOCKCHAIN



List of speakers:

- 1) Mr. Charlie Bussat
- Infinito
- 2) GINAR
- 3) Mr. Nguyen Duc Phuong Nam
- Fruitchain
- 4) VTOS
- 5) Ms. Nur Husna Zakaria
- Universiti Malaya

Date : 24th October 2018

Programme Overview:

Meeting the era of digital transformation, MIGHT TalkSeries took the opportunity to focus on the blockchain initiative/area, which includes, but not limited to:

- 1) Insights and updates for specific Industry & Government Stakeholders on blockchain potentials
- 2) Highlighting potential areas of blockchain such as agriculture and talent development from the international experiences



TECHOMART IOT & TALKSERIES : DIGITAL OIL & GAS



List of speakers:

- 1) Dr. Ahmad Khalid Khairi
- UZMA Group
- 2) Mr. Mohd Amri Mohd Din
- UZMA Integrated Solution
- 3) Mr. Brian Bong
- SMARTOPTZ
- 4) Mr. Fadhlan Nik Abdul Aziz
- Petronas Research
- 5) Mr. Chandrakala Ramalingam Nair
- Siemens

Date : 25th October 2018

Programme Overview:

It is a well-known fact that the emergence of Internet of Things (IoT) has largely impacted the landscape of industries today. On a positive note, the application of IoT promises efficiency and wider scope coverage of various industries. The oil and gas industry is among of the critical industries in Malaysia experiencing this transformation.

MIGHT collaborated with key partners such as PETRONAS, UZMA Group and Siemens to organise this TalkSeries. The knowledge imparted, along with the products/solutions showcased during this session have inspired the participant organisations to embark on achieving their goals and would serve as a platform for them to scout for potential partners and solutions in the future.



TECHOMART & TALKSERIES : SMART MOBILITY



i) Talks by :

Frost & Sullivan, Lux Research Inc.
and A.T. Kearney

Panel sessions by:

- 1) Futurise Sdn Bhd
- 2) Grab
- 3) eMoovit Technology Sdn Bhd

- ii) At the Smart Mobility for Autonomous Test Bed Workshop, 171 participated in the Talk while 51 participated in the workshop.

Date : 30th October 2018

Programme Overview:

This session of the MIGHT TalkSeries put forward a discourse on topics relating to Smart Mobility involving autonomous and connected mobility as well as multi-model transport system in achieving sustainable city development, and exploring what the future holds for us, in Malaysia and the World. This event was held at the MIGHT Partnership Hub Building, Cyberjaya. It was attended by high-level stakeholders such as government ministries, agencies, industries and members of MIGHT.



TECHNOMART & TALKSERIES : SMART ENERGY



i) Talks by :

Lux Research Inc., Microvast and TNB Research Sdn Bhd

Panel sessions by:

- 1) ECLIMO Sdn Bhd
- 2) TreeLetrik Sdn Bhd
- 3) GSPARX Sdn Bhd
- 4) UNITEN
- 5) Malaysian Gas Association (MGA)

ii)

At the Smart Grid for GEF6 Workshop, 116 participated in the Talk while 31 participated in the workshop.

Date : 31st October 2018

Programme Overview:

The MIGHT TalkSeries session on Smart Energy focuses into the Sustainable Development Goal (SDG 7): Affordable and Clean Energy. Smart Energy is a cost-effective way of implementing sustainable energy system in which renewable energy production, infrastructures, and consumption are integrated and coordinated through energy services, active users and enabling technologies. This event was held at the MIGHT Partnership Hub, Cyberjaya. This session of MIGHT TalkSeries was aimed to give good exposure and knowledge on the importance of Smart Energy in sustainable city development. The event was attended by high-level stakeholders such as government ministries, agencies, industries and members of MIGHT.



TECHNOMART IOT & TALKSERIES : EXPERIENCING INDUSTRY 4.0



List of speakers:

- 1) Mr. James Lai
- MyloTA
- 2) Mr. Jeyakumar
- iCEE International
- 3) Mr. Muhammad Syafiq Salleh
- Asia Drone & IoT Technologies
- 4) MIMOS Berhad
- 5) Mr. Raj Ramakrishnan
- Keysight Technologies
- 6) Ms. Lailyn Fong
- Messe Worldwide Sdn Bhd

Date : 6th December 2018

Programme Overview:

This time around MIGHT has invited several industrial experts to share their best practices and experiences in facing the wave of revolution and their first-hand knowledge on how Industry 4.0 has impacted their businesses.

Among the new age technologies that were given focus on at the event were IoT, Artificial Intelligence, Augmented Reality and drone technology with a further discourse on their applications in various industries.



TECHNOMART & TALKSERIES : ADVANCING LOCAL RAIL PARTNERSHIP



List of speakers:

- 1) Mr. Mohd Nasir Md. Ibrahim
- MIGHT
- 2) Dr. Arvind Hari Narayanan
- MARIC
- 3) Ir. Dr. Azman Senin
- UniKL Asia Rail Centre
- 4) Mr. Fauzi Yahaya
- MIMOS Berhad
- 5) Mr. Shazwan Abdul Razak
- CMC Group Sdn Bhd

Date: 18th & 20th December 2018

Programme Overview:

Seamless public transportation is a fundamental element in achieving economical and efficient connectivity between cities and beyond. In many countries including Malaysia, rail services play a crucial role in providing this connectivity, especially in the early stages of modern public transportation where people took trains to travel from one city to the next.

Rail vehicle technology has long advanced, today it involves more complex and sophisticated systems and is considered as a high technology industry. This evolution calls for our local rail industry players as well as workers to elevate their knowledge and competencies, in order to meet new challenges.

In Malaysia, admittedly, the rail industry has faced various challenges despite the notable improvements made in recent years. The formation of MARIC as an industry leader has led the local rail industry to gain full capability in providing services. Local empowerment will ensure sustainability and cost savings, thus local industries should prioritise in green energy, innovate easy access to disabilities as well as invest in urban connectivity.

These were among the key messages that were relayed during this TalkSeries, which featured prominent players in the local rail industry.



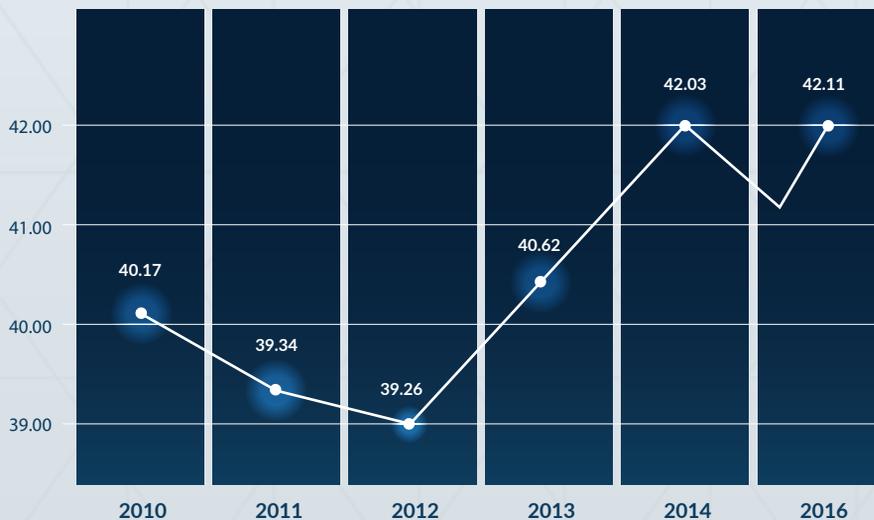
RE-BUILDING OF MIGHT'S HIGH TECH INDUSTRIAL DATABASE

As a prelude to MIGHT's pursuit for digitalisation, we have embarked on an exercise to rebuild and improve MIGHT's high tech industrial database. The purpose of the exercise is to expand the coverage of high technology industries, and to improve the reporting of high technology industry performances.

MIGHT's rebuilt database will be based on high technology definitions adopted from Eurostat and OECD. A clear definition of high technology industrial sectors, products and technologies is fundamental in ensuring a consistent evaluation and reporting of high tech related performances.

The Phase 1 implementation involves the remodelling of relevant data, development of database management applications, and performing the necessary data analytics. MIGHT is also working closely with the Companies Commission of Malaysia (SSM) and the Department of Statistics Malaysia (DOSM) to source for relevant high technology data, in order to expand the pool of companies and related macro statistics in the database.

High-Tech Export as a % of Total Manufactured Export



Data sources: High Team Import/Export Value from UN-COMTRADE and Manufactured Export from World Bank



Session with SSM



Session with DOSM

SUSTAINABLE DEVELOPMENT

SUSTAINABLE ENERGY PROGRAMME FOR SEAPORTS



MIGHT in partnership with technology partners are exploring on the potential of sustainable technology applications for the Johor sea ports stakeholders and ecosystem towards sustainable development and operation in supporting the Green Port Policy by Johor Port Authority.

KEY HIGHLIGHT ACTIVITIES:

Meeting and site visit at
Johor Port Berhad and
Port of Tanjung Pelepas

NDA signed between
MIGHT and Johor Port
Authority

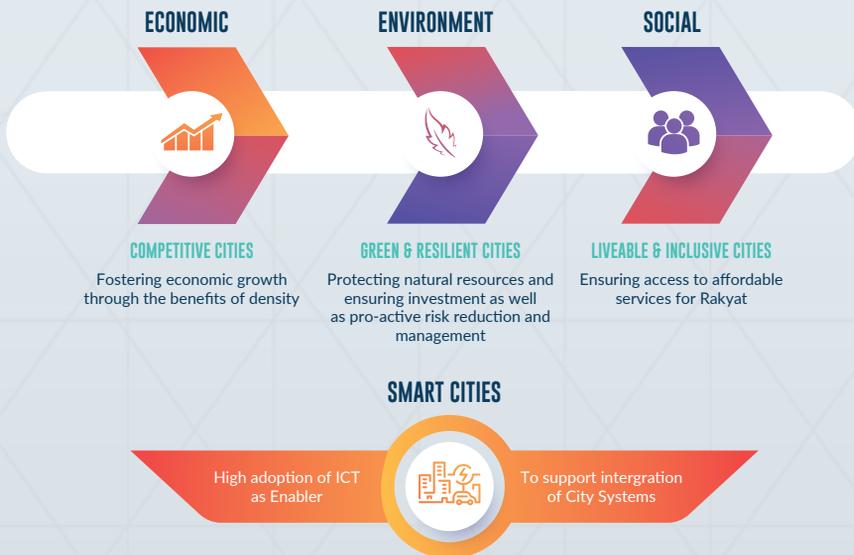
GLOBAL ENVIRONMENT FACILITY (GEF) 6 : SUSTAINABLE CITIES DEVELOPMENT IN MALAYSIA

GEF6 Project Overview



Sustainable City As Integrated Approach

Integrates economic, environmental, and social objectives :



(Source : World Bank and MIGHT)

From Malaysia's perspective, the project is intended to;

- 1 Accelerate the nation's readiness, alignment and synergisation to address the two grand challenges facing today's cities, namely urbanisation and climate change
- 2 Support the implementation of the related Game Changers and Strategic Thrust of the 11th Malaysia Plan (RMK 11) in areas of green growth, innovation, industrial development in green technology, as well as a competitive city info structure

The projects deliverables are divided into four Key Outputs

Output 1.1.1 - National and State Policies on Sustainable Cities	Output 1.1.2 - Capacity Building
	Output 1.1.3 - Awareness
Output 1.2.1 - Smart Grid Demonstration Project	



GLOBAL ENVIRONMENT FACILITY (GEF) 6 : PROJECT GOVERNANCE NATIONAL STEERING COMMITTEE



National Steering Committee Meeting No/1 2018 (8th November 2018)

This committee is constituted as a committee of inter ministries and agencies addressing strategies related to Output 1.1.1 and Output 1.1.2. The chairman of the National Steering Member is the Chief Secretary of Ministry of Housing and Local Government and the meetings will be held at least biannually at appropriate times.

LIST OF NATIONAL STEERING COMMITTEE

No	Organisation
1	Ministry of Housing and Local Government
2	Ministry of Economic Affairs
3	Ministry of Finance
4	Ministry of International Trade and Industry
5	Ministry of Energy, Science, Technology, Environment and Climate Change
6	Ministry of Water, Land and Natural Resources
7	Ministry of Communications and Multimedia
8	Ministry of Federal Territories
9	Economic Planning Unit of Melaka
10	PLAN Malaysia
11	Malaysian Institute of Planners
12	Majlis Bandaraya Johor Bahru
13	Dewan Bandaraya Kota Kinabalu
14	Majlis Perbandaran Hi-Tech Kulim

GLOBAL ENVIRONMENT FACILITY (GEF) 6 : NATIONAL & STATE POLICIES



Presentation of Rapid Assessment Exercise (RAE) on Melaka Sustainability Outlook Diagnostic Report Draft by the World Bank at National Steering Committee Meeting on 8 November 2018

Rapid Assessment Exercise of Melaka's urban sustainability was the first initiative carried-out by the GEF-6 Sustainable City Development in Malaysia Project—implemented by UNIDO, executed by MIGHT, and supported by the Global Environment Facility (GEF). Melaka's diagnostic was performed by the World Bank's Global Platform for Sustainable Cities (GPSC), which provides a network of 28 cities in 11 countries, a platform Melaka actively participates in. Several consultations for the assessment were carried out with the stakeholders, including the Ministry of Housing and Local Government, State Government of Melaka, Economic Planning Unit of Melaka, and other government agencies.

INPUT (Stage 1 : Preparation Works)

- Stakeholders, Engagement
- Data/Info Collection
- Info Aggregation

PROCESS (Stage 2 : Info Mining & Analysis)

- Info Mining
- Benchmarking
- Review of City's Strengths & Weaknesses
- Gap Analysis

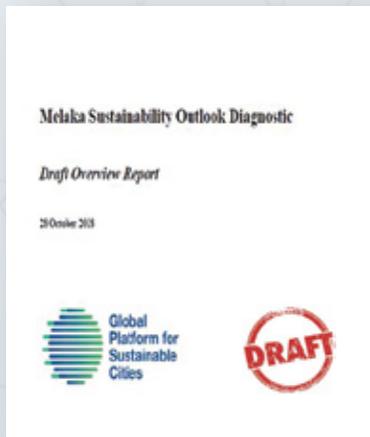
PROCESS (Stage 2 : Assessment Result)

- Findings on Gaps
- Stakeholders, Engagement
- Identification of Priority Sectors for Channelling Investments
- Recommendations

Melaka Sustainability Outlook Diagnostic Report was developed to inform the next update to the State Structure Plan 2035. The report takes a holistic view of sectorial focuses which are integral to Melaka's future urban sustainability and it is believed that Melaka Sustainability Outlook Diagnostic report will be a good guideline for Melaka's mission towards urban sustainability.

NATIONAL & STATE POLICIES

Melaka Sustainability Outlook Diagnostic Report comprises an Overview Report and a Technical Report, which include six chapters that represent different topics of assessment.



6 Chapter Assessment

- 01 Reinforcing Melaka's Economic Success
- 02 Integrating Environmental Plans
- 03 Enhancing Services and Housing
- 04 Shaping a Compact, Efficient and Harmonious Urban Form
- 05 Shifting Melaka's Mobility Modal
- 06 Demonstrating Fiscal Sustainability

URBAN SUSTAINABILITY FRAMEWORK

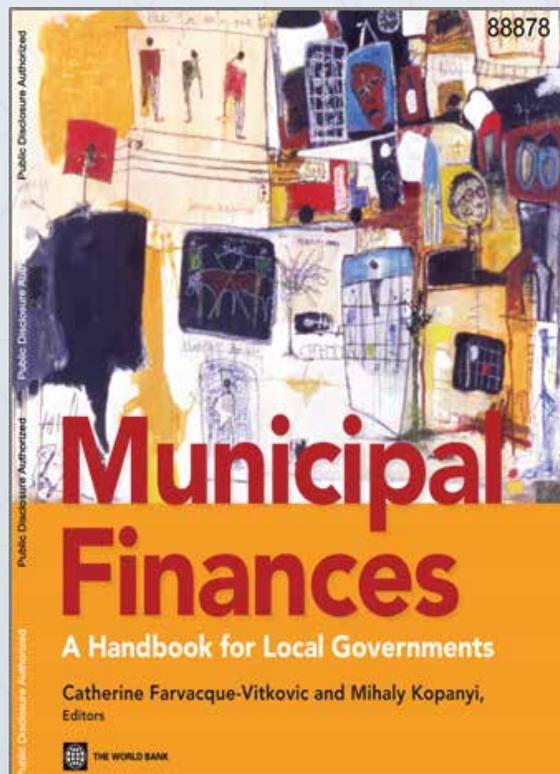


Urban Sustainability Framework

The assessment process in this report follows a historic trend (vertical) analysis and a comparative (horizontal) analysis of selected comparator cities. An important aspect of the Urban Sustainability Framework is comparing cities utilising the document's "Measuring Framework".

GLOBAL ENVIRONMENT FACILITY (GEF) 6 : CAPACITY BUILDING

Since 2017, with regards to the Output 1.1.2, Capacity Building, MIGHT has conducted training programmes on sustainable city development and master plan formulation, which focused on capacity building and consultation. The sessions have enabled the development and strengthening of human and institutional resources as well as sharing of knowledge. Through this GEF programme under Capacity Building Output, activities such as workshops, consultation sessions and capacity building will allow individuals and organisations to obtain, improve and retain their skills as well as exchange knowledge.



Upcoming Capacity Building Activity is "Municipal Finance Training" which will be held in Quarter 1 of 2019

Municipal Finance Training

The main objective of the training is to provide participants with a clear framework and practical options to help cities access capital markets. The training will also focus on identifying and/or developing concrete opportunities for private capital financing. With comprehensive exposure to the full set of Academy topics in their full depth, this will ensure maximum interaction between participants and faculty, including the detailed completion of creditworthiness self-assessments and action plan.

AWARENESS ON SUSTAINABLE CITY DEVELOPMENT

The Awareness involves of three main part as follows:

- I. Malaysia International Centre for Sustainable Cities (ICSC-My)
- II. Awareness activities on Sustainable City development
- III. Smart Grid awareness and consumer engagement program

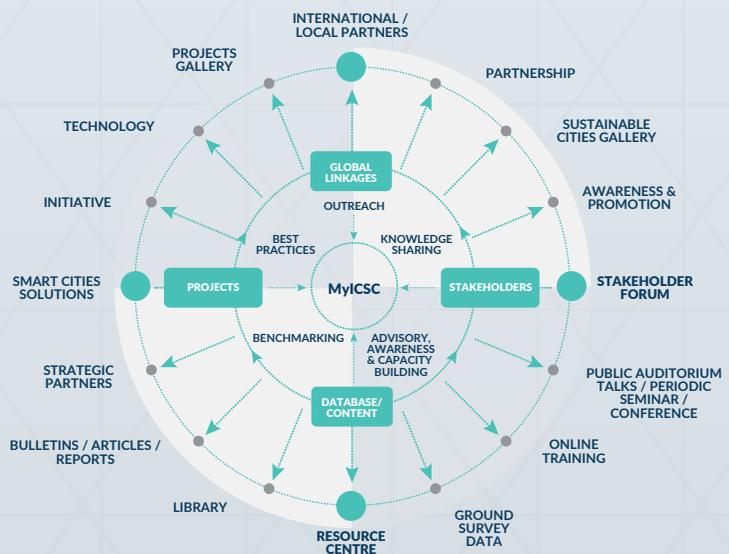
Malaysia International Centre for Sustainable Cities (ICSC-My)

Malaysia International Centre for Sustainable Cities (ICSC-My) is initiative to encourage smart cities stakeholders to build Sustainable Cities and Communities. It's offers a powerful opportunity to leverage the knowledge and shared learning of an entire initiative, support the achievement of high performance at all locations, and accelerate the broad-based adoption of innovative advances. ICSC-My creates an environment that encourages and facilitates the active sharing of expertise and new insights across a particular community of interest. Shared ideas foster additional insights and knowledge, and successful execution of this role can significantly accelerate the pace of innovation and adoption of best practices across an entire organization.

ICSC-MY 4-tier Linkages



ICSC-My Strategic Component



The Objective for the International Centre For Sustainable Cities:

- 1) To provide 4-tier linkage on Sustainable Cities initiative involving:
 - Global
 - National
 - State / Economic Corridor
 - Local Level
- 1) To function as a knowledge centre in developing and implementing Sustainable Cities initiative.
- 2) To serve as a platform and knowledge hub for the dissemination, knowledge sharing, alignment and synergising of multiple stakeholders in Sustainable Cities.
- 3) To showcase lessons learned and recognize success stories on the initiative.
- 4) To provide awareness and capacity building initiatives in partnership with related NGOs, Academia, Government, Private Sectors and International Organisations.
- 5) To share projects information on smart cities locally & internationally

GLOBAL ENVIRONMENT FACILITY (GEF) 6 : AWARENESS

“Awareness Activities On Sustainable City Development”

Since May 2017 till end of 2018, we were focused on output 1.1.3, which is awareness raising events for policy-makers, industry and end-users at National Level and State Level Conference. MIGHT, through GEF 6 has participated in over 10 conferences and organised several conferences to promote the awareness in sustainable city development.



UCSI University Sustainable Development Goals Conference (SDGC) 27th March 2018



UCSI University Sustainable Development Goals Conference (SDGC) aims to facilitate an exchange of ideas across a diversified group of student leaders across Malaysia, as well as to provide an unparalleled learning experience and outcome in leadership. The tagline of this conference is "Sustainable Development Goals (SDGs) - Is Malaysia Prepared?".

In conjunction with the conference, MIGHT's Senior Vice President, Dr. Raslan Ahmad participated as a panel speaker on "SDG11 Cities and Communities". The session comprised on Sustainable Smart Cities which focused on concept, urban sustainability framework, collaborative reward models and Smart Cities Alliance (SCA).

GLOBAL ENVIRONMENT FACILITY (GEF) 6 : AWARENESS

Cities 4.0 Conference and Exhibition 2018



Cities 4.0 Conference and Exhibition - 27th August 2018

Cities 4.0 Conference and Exhibition was held on 27th-28th August 2018 with theme of “Building A Smart & Digitalised City”. This international exhibition and conference was launched by YAB Tun Dr. Mahathir Bin Mohamad, Prime Minister of Malaysia. Cities 4.0 is designed to provide a platform to discuss frameworks and strategies that highlight and measure smart city and urban planning interrelation.

In conjunction with Cities 4.0, MIGHT was invited to speak on Smart Cities: Local Intervention Through Alliance and International Partnership during the Plenary Address 4. In this presentation, the speaker shared the issues and challenges in developing a Smart City. The session covered smart city components, market analysis and the way forward in uplifting a Smart City to the next level. In addition, the speaker expanded the key presentation to Smart City Alliance (SCA) which will be beneficial towards achieving agreed partnership objectives that maximises net value to all partners. Through the presentation, the audiences can discover new business model and approach in the sectors of Smart City.

World Energy Cities Partnership



MIGHT is instrumental in mobilising and achieving the SDG agenda through a revitalised Global Partnership for sustainable development. Over the years, MIGHT has carried out many initiatives to support the green technology programme for economic and environmental sustainability such as the Global Cleantech Innovation Programme (GCIP), Green Energy Programme and myBiomass.

In conjunction with the International Greentech & Eco Products Exhibition & Conference Malaysia (IGEM 2018) Dr. Raslan Ahmad represented MIGHT on “Empowering Green through Partnership” as one of the panel speakers during the congress. IGEM is the biggest flagship event organised annually by the Ministry of Energy, Science, Technology, Environment & Climate Change (MESTECC) to create a platform for solution providers and green energy businesses to tap into the fast-expanding ASEAN market by highlighting the latest innovations to policy makers, government organisations, investor and the mass market. IGEM 2018 on Green Economy & Industry 4.0 explored the integration modes between green economy solutions and its application to the current automation trend which include, Internet of Things (IoT), cyber security, system integration, Big Data, autonomous robots and more.

Presentation on “Empowering Green Through Partnership” in conjunction with the International Greentech & Eco Products Exhibition & Conference Malaysia (IGEM) 2018 on 17th October 2018



Distribution Network Technical Conference 2018 (DCON)

DCON was an excellent opportunity to share expertise and outlook on technologies and enablers towards Grid of the Future. The conference was also a good platform for technical networking with Distribution Network Division, in further understanding its perspectives and aspirations. In conjunction with the conference, MIGHT was invited to be one of the representative speakers to deliver a technical presentation during the plenary session themed "Smart City: Partnership in Smart City Initiative". During the session, the presenter spoke on sustainable and smart cities, highlighting the issues and challenges in developing a smart city—valuable inputs to the audience who came from smart city sectors.

Smart Grid Awareness And Consumer Engagement Programme

MIGHT is currently working on the GEF 6 Sustainable Cities Development in Malaysia under UNIDO. A part of the deliverables is to develop the smart grid demo project by integrating the green technologies to the national grid via the communication system such as advance metering infrastructure (AMI) for better coordination and planning for the energy industry in Malaysia.



Preparation meeting with UNIDO

Key Highlight Activities :

Potential collaboration in solar PV investment opportunities



Engagement with GSPARX in IGEM

Key Highlight Activities :

Updated design concept for smart grid project demo, which was used for presentation during the National Steering Committee Meeting on 8th November 2018

GLOBAL ENVIRONMENT FACILITY (GEF) 6 : SMART GRID DEMONSTRATION PROJECT

Smart Grid Workshop Demonstration Project

The Smart Grid Component was responsible in delivering the Smart Grid Component, which consisted of a few elements covering policy, awareness, training and demo project. The team also conducted initiatives to ensure the project deliverables were on track as part of the preparation before securing the new contract agreement on the smart grid component.

The Smart Grid Workshop on Term of Reference (TOR) Formulation was conducted on 31st October 2018 at the MIGHT Partnership Hub, Cyberjaya. The workshop was attended by 20 participants from UNITEN, TNB Research, UNIDO GEF 5 SEDA, GSPARX Sdn. Bhd. and Renewcell (M) Sdn. Bhd. The objectives of this workshop were:

- i. To gather input from key stakeholders
- ii. To propose a general timeline schedule for the project implementation and general technical information of the system
- iii. To cover the procurement approach and identifying the potential project partners

The team had also received submissions from the partners on 5th November 2018 and the information received are used for the content preparation towards the presentation on TOR during the National Steering Committee meeting which was held on 8th November 2018.



Preparation Work Activities for the Smart Grid



Exploration meeting with TNBR

Key Highlight Activities :

Potential collaboration between MIGHT and TNBR on designing the concept of smart grid based on the recent progress



Meeting with TNBR on smart grid

Key Highlight Activities :

Establishment of special Focus Group Discussion (FGD) with the stakeholders to strategise the overall component deliverables under smart grid

REGIONAL SOLAR HUB TESTING CERTIFICATION AND TRAINING



MIGHT takes the role as Project Manager while SIRIM QAS Int. as Project Implementer on the Development of Regional Solar Hub Testing, Certification and Training, utilising a funding of RM6 million from RMK11 High Value Added and Complex Programme under MITI (Second Phase, Jan 2018 - Dec 2019). The National PV Lab is located at SIRIM QAS Int. in Shah Alam and is expected to deliver various testing and services for the solar PV industry.

KEY HIGHLIGHT ACTIVITIES:



Secured Second Phase Fund of RM6 million from MITI for the National PV Lab establishment



Audited by National Audit Department (JAN) on the progress of deliverables for 2017



Submission of Malaysia Solar Industry Roadmap 2030 to YB Yeo Bee Yin, Minister of MESTECC and distributed to key solar PV stakeholders



Produced and distributed Large Scale Solar Maps in IGEM 2018 in partnership with Maps & Globe Specialist Sdn Bhd

CAPACITY BUILDING

Technology is one of the main reasons why incomes have stagnated, or even decreased, for a majority of the population in high-income countries: the demand for highly skilled workers has increased while the demand for workers with less education and lower skills has decreased. – WORLD ECONOMIC FORUM

This indicates the need to create higher skilled workforce to embrace the impact of 4IR, where the effort should start at an earlier stage. Hence, the declining interest in science among students MUST be addressed urgently – this requires concerted efforts, involving all segments of the community including ministries, agencies, industries and NGOs.

Various efforts via successful state-level science programmes have been implemented in terms of proliferating science among not only students, but educators, parents and society at large.

Recognising the key role of science and technology as a driver for developed and emerging economies, MIGHT has been a staunch supporter of promoting interest on STEM education in realising the importance of preparing high-skilled talents for 4IR including getting involved in awareness seminars on 4IR Colloquium held by the Ministry of Education and collaborating with various stakeholders to conduct one of the largest science fair in Malaysia.

FAMELAB



DR SITI KHAYRIYYAH'S QUEST IN FINDING THE HIDDEN KILLER WON HER THE FAMELAB INTERNATIONAL FINAL 2018

Dr Siti Khayriyyah, or “Kye”, was crowned the World Best Science Communicator in the 11th FameLab International Final on 7th June 2018, held in the UK. She successfully competed against 27 science communicators from across the world, which was held during the Cheltenham Science Festival, UK.

Kye presented “To Find a Hidden Killer”, talking about diagnosing infectious diseases accurately using biomarkers. Her winning talk focuses on Tuberculosis control and she convinced the judges through her calm engaging stage presence and clarity of content.

Kye is the second Malaysian FameLab International Champion after Professor Dr. Abhimanyu Veerakumarasivam won the title in 2016. He was the first FameLab International Champion for Malaysia and for the Asian region.

FameLab was brought to Malaysia in 2015 by the British Council in collaboration with MIGHT. The science competition aims to discover up-and-coming scientists who inspire people to see the world from a new perspective. FameLab is a successful model in identifying, training and mentoring young scientists, engineers or science professionals to share their enthusiasm for the subjects with the public. Each contestant will deliver a three-minute presentation on their chosen topic. Every presentation will be judged according to the golden rule of the 3 Cs: content, clarity and charisma.

FameLab 2018 finals feature contestants from 27 countries: Malta, Kazakhstan, Qatar, Poland, Greece, South Africa, Egypt, Italy, Ireland, Malaysia, Bangladesh, Thailand, Portugal, the UK, Netherlands, Korea, Czech Republic, Bulgaria, Germany, Switzerland, Hungary, Brazil, Spain, Romania, Cyprus, France and Australia.

Malaysia’s win in FameLab International in 2016 & 2018 marks a memorable milestone for the partnership between the British Council and MIGHT.

NUOF PROGRAMME 2018

INTERNATIONAL ACCREDITATION OF TECHNOLOGY TRANSFER PROFESSIONALS

Date : 6th – 8th February 2018
Venue : MIGHT, Cyberjaya, Selangor
Participants : Private & Public Sectors

BACKGROUND OF TECHNOLOGY TRANSFER PROFESSIONALS PROGRAMME :

The Registered Technology Transfer Professionals (RTTP) certification programme is the first-of-its-kind in Malaysia that focuses on the establishment of technology transfer as a recognised profession. Participants are being trained on the entire breadth of technology transfer and commercialisation process that will result in Malaysian technology transfer professionals being recognised as RTTP – a globally recognised qualification. This designation acknowledges the accomplishments, roles, skills, knowledge, and expertise of technology transfer professionals worldwide. The Alliance of Technology Transfer Professionals (ATTP)—under which the RTTP qualification is awarded—is a global network that sets quality standards for the technology transfer profession and promotes a common core skillset. The alliance represents more than 10,000 professionals.

OBJECTIVES OF THE TRAINING :

- 01 To establish technology transfer as a recognised profession in Malaysia
- 02 To translate research into products and services which contribute significantly to socio-economic development
- 03 To uplift the knowledge and skills on a global platform
- 04 To develop professional skills among Malaysians and support the government's aspiration

IMPACT :

This programme brings significant impact to the participants in experiencing the local and international innovation landscapes across the globe.

Participants would also be able to exchange ideas and experience among themselves as well as exchanging ideas with the consultant.

Participants are being trained on the entire breadth of technology transfer and commercialisation process that will result in Malaysian technology transfer professionals being recognised as Registered Technology Transfer Professionals (RTTP)—a globally recognised qualification, which is the main aim of this programme.

NUOF PROGRAMME 2018

LEADERS IN INNOVATION FELLOWSHIPS (LIF) IN COUNTRY TRAINING

Date : 10th – 11th October 2018
Venue : MIGHT, Cyberjaya, Selangor
Participants : Researchers from academia



BACKGROUND OF TECHNOLOGY TRANSFER PROFESSIONALS PROGRAMME :

The Technology Transfer Professionals Programme is aimed at researchers who are about to develop, or are in the process of developing a business proposition for their innovation. A select cohort of researchers from the same country will form a focused period of training in the UK and will have access to expert coaches and opportunities for international networking. In the short term they will develop, with the support of the programme, a commercialisation plan for their innovation. In the long term they will benefit from access to an international network of peer innovators in taking their commercialisation plan forward.

OBJECTIVES OF THE TRAINING :

- 01 To build the entrepreneurial capacity and commercialisation skills of local innovators
- 02 To get access to expert mentors and opportunities for international networking
- 03 To get ongoing support at their home institution, and access to a curated international network
- 04 To gain from other participants' business experience and knowledge in product commercialisation
- 05 To get access to the potential investor through pitching session

IMPACT :

This programme has brought significant impact to researchers who have amazing ideas and innovative products by helping them to commercialise those products. The aim of the programme is for the researchers to be able to come out with a good commercialisation plan, which later can attract potential investors. This programme successfully gave full exposure to the participants in learning about business acumen and market trends.

TECHNICAL VISIT TO MET UK OFFICE BY THE WEATHER AND CLIMATE SCIENCE FOR SERVICE PARTNERSHIP SOUTHEAST ASIA – MALAYSIA (WCSSP SEA-MALAYSIA) PROJECT TEAM

Date	: 15 th – 19 th October 2018
Venue	: MET Office, Exeter, UK and Environment Agency, Exeter, UK
WCSSP Team Members	: 2 reps from NADMA, 2 reps from MET Office Malaysia, 2 reps from DID, 1 rep from NAHRIM, 1 rep from MIGHT

BACKGROUND OF TECHNOLOGY TRANSFER PROFESSIONALS PROGRAMME :

The Weather and Climate Science for Service Partnership Southeast Asia-Malaysia (WCSSP SE Asia-Malaysia) programme comprises projects designed to build the basis for strengthening the resilience of vulnerable communities to weather and climate hazards. This programme also strengthens links between the UK and Malaysia, drawing on UK capability and expertise, and creating sustainable relationships for long-term collaboration.

Developing an Impact Based Forecast (IBF) for Malaysia is one of the important deliverables in this programme and the UK Met Office has vast experiences in this field. With this technical visit, the experts from Malaysia can have a first-hand experience and full knowledge of the development of IBF in the UK to be implemented in Malaysia.

OBJECTIVES OF THE TRAINING :

-  To learn and share the operating and management system related to High-Impact Weather (HIW)
-  To get an overview of IBF set up and operation
-  To learn the best management practices in terms of technical as well as policy aspects
-  To learn about seasonal forecast for water resources at Environment Agency, UK
-  To strengthen cooperation and relationship between both parties

TECHNICAL VISIT TO MET UK OFFICE BY THE WEATHER AND CLIMATE SCIENCE FOR SERVICE PARTNERSHIP SOUTHEAST ASIA – MALAYSIA (WCSSP SEA-MALAYSIA) PROJECT TEAM



IMPACT :

The visit was successfully conducted from 15th-19th October 2018, with the UK MET Office's Project Team in Exeter, United Kingdom. Various activities and meetings have been arranged by the UK MET Office in order to fulfil the objectives of the visit and to deliver part of the deliverables of the work package of the project. Both teams from Malaysia and the UK have exchanged knowledge and experience especially on the best practices of various agencies from both countries and also on how both countries manage the occurrence of natural disasters, specifically floods. In addition, the project team also had the opportunity to discuss on how to enhance the flood management system.

The discussions and knowledge sharing continued on the area of Impact Based Forecast (IBF), as this was one of the main objectives of the visit, where Malaysia has yet to have the expertise on this area. The UK has the capabilities and vast experience in IBF, thus, the Newton Ungku Omar Fund (NUOF) is the platform to have the exchange of practice and methodology as well as to encourage new research and development collaborations between both countries.

The visit has garnered positive impact where all project team members had the opportunity to visit the Flood Forecasting & Monitoring System in which the UK counterpart shared their experience in managing floods. NUOF will continue to support the programme as it brings significant impact to Malaysia. With the implementation of IBF in the future, it can save a lot of lives and property damages when floods can be accurately forecasted.

LEADERS IN INNOVATION ACCELERATOR



LIA is an intensive 16-week programme of practical skills and expert mentoring aimed at empowering individuals and teams from early-stage innovation projects or businesses to develop their commercial models, validate their target markets, raise investment as well as enter and expand their product reach in the global market place.



SCIENCE BASED PUBLIC ENGAGEMENT

Technology is one of the main reasons why incomes have stagnated, or even decreased, for a majority of the population in high-income countries: the demand for highly skilled workers has increased while the demand for workers with less education and lower skills has decreased. – WORLD ECONOMIC FORUM

This indicates the need to create higher skilled workforce to embrace the impact of 4IR, where the effort should start at an earlier stage. Hence, the declining interest in science among students MUST be addressed urgently – this requires concerted efforts, involving all segments of the community including ministries, agencies, industries and NGOs.

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Recognising the key role of science and technology as a driver for developed and emerging economies, MIGHT has been a staunch supporter of promoting interest on STEM education in realising the importance of preparing high-skilled talents for 4IR including getting involved in awareness seminars on 4IR Colloquium held by the Ministry of Education and collaborating with various stakeholders to conduct one of the largest science fair in Malaysia.

STEM EDUCATION COLLOQUIUM 2018 – SARAWAK ZONE (3RD-4TH APR 2018)



The STEM Education Colloquium Series is part of the STEM Education fortification programme under the Ministry of Education with an overarching target to increase teachers' knowledge, skills and teaching capabilities in STEM Education. The theme of these colloquium series is "Education through Exploration."

This colloquium is a collaborative effort with various partners including varsities, government agencies and industries. The Sarawak Zone Colloquium was realised with cooperation among Universiti Malaysia Sarawak (UNIMAS), Ministry of Education, Science & Technology Sarawak as well as various industries and stakeholders in Sarawak and Peninsular Malaysia.

This colloquium was attended by more than 1000 participants including principals, STEM teachers, counsellors, reps from PIBG, Department of Education, District Office and universities. It was graced by the Sarawak Minister of Education, Science & Technology, Dato' Sri Michael Manyin anak Jawong.

MIGHT was represented by Mr. Mohd Nasir Ibrahim, Head of TechnoMart and Mobility. He was a Panelist for the Forum on "Work Force requirements in STEM areas in the Era of Fourth Industrial Revolution."

KUALA LUMPUR ENGINEERING SCIENCE FAIR (KLESF)



In conjunction with KLESF 2018, Malaysia Mental Literacy Movement (MMLM) held its 14th Malaysia Festival of the Mind to share interest in mathematics and mental literacy. There were 32 organisations that comprise the industry, organisations and non-governmental organisations involved. KLESF 2018 is well-known among ASEAN countries and 22 schools joined the showcase and KLESF Challenges Competition.

Date	: 2 nd -4 th November 2018
Visitors	: 60,000 (80% were students)
Guest of Honour	: YBhg. Datin Paduka Ir. Dr. Siti Hamisah Tapsir, Director General, Higher Education, Ministry of Education.

Competitions

KLESF Challenge Competition, National Innovation in Science, Technology and Engineering (Pistek 2018), 3rd International Junior Chem-E Car Competition 2018, RAC '18 RERO Annual Championship and School Labs Malaysia 2018.

About The Kuala Lumpur Engineering and Science Fair

Also known as	: The Fair or STEM Carnival
Inaugural year	: 2014, held at Pusat Sains Negara

Aim is to increase the interest and importance of STEM among students and school teachers.

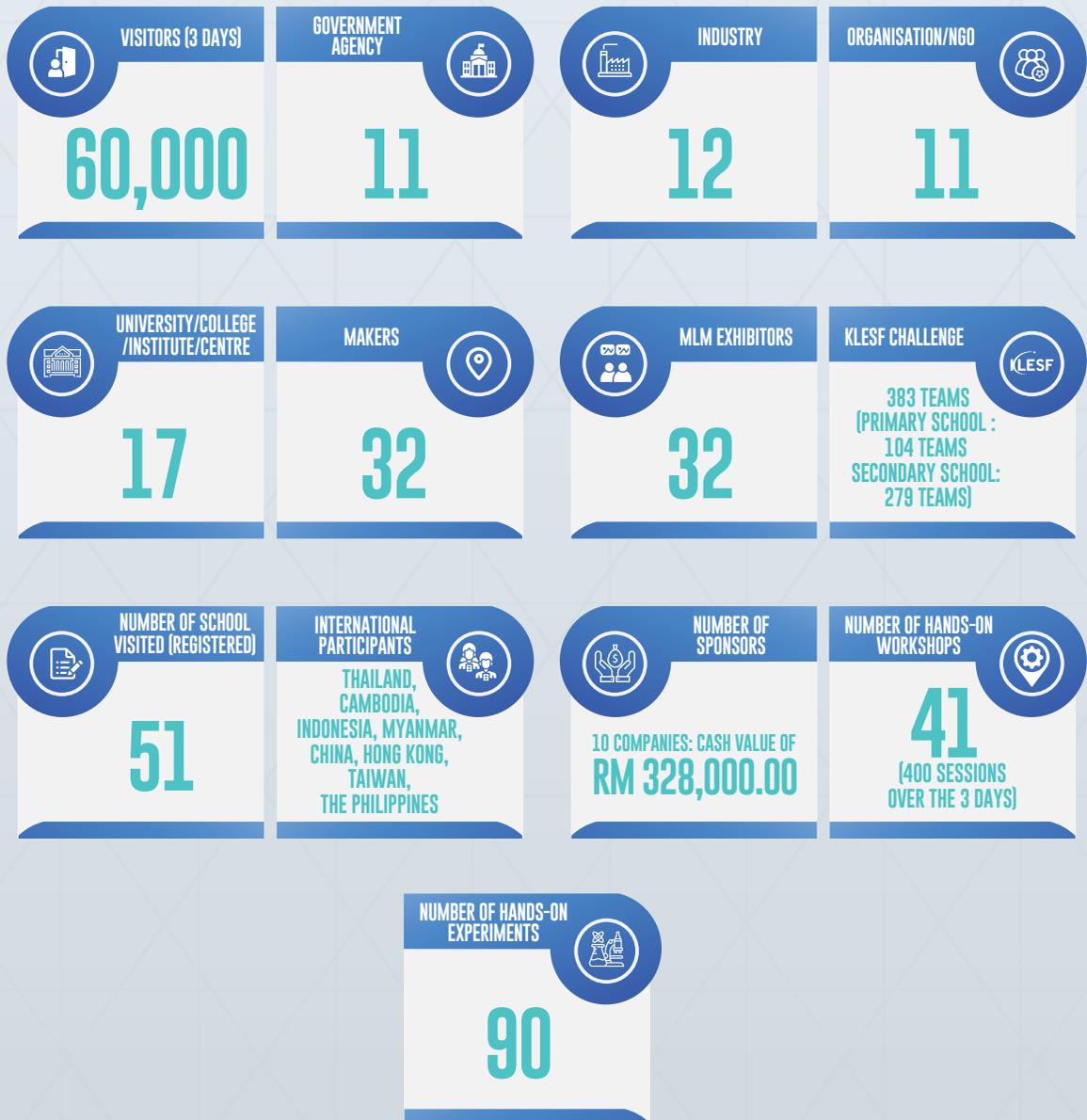
Programmes line-up :

1. STEM workshops
2. Scientific showcases & competitions
3. Hands-on activities
4. Special exhibitions
5. A variety of informal science education experiences for Malaysians of all ages

STEM providers : Academia, companies, government agencies and NGOs



KLESF : THE FAIR 2018



SOFTWARE PROGRAMMING INNOVATION COMPETITION (PROCOM) 2018



Date : 2nd-3rd August 2018

Opened to all students from public and private higher learning institutions in Malaysia, PROCOM participants were divided into groups of three students. All participants were required to develop executable softwares on computers or tablets based on their chosen theme and innovative ideas without violating any intellectual property rights. 13 teams contested.

PROCOM 2018 was organised by Chinese Weekly, co-organised by Multimedia University (MMU) & Universiti Teknologi Petronas (UTP), and supported by MIGHT and Nourishment Association for Programming Contest KOSEN (NAPROCK, Japan). PROCOM 2018 was sponsored by Silverlake Axis, Epson Malaysia and Walta Group.

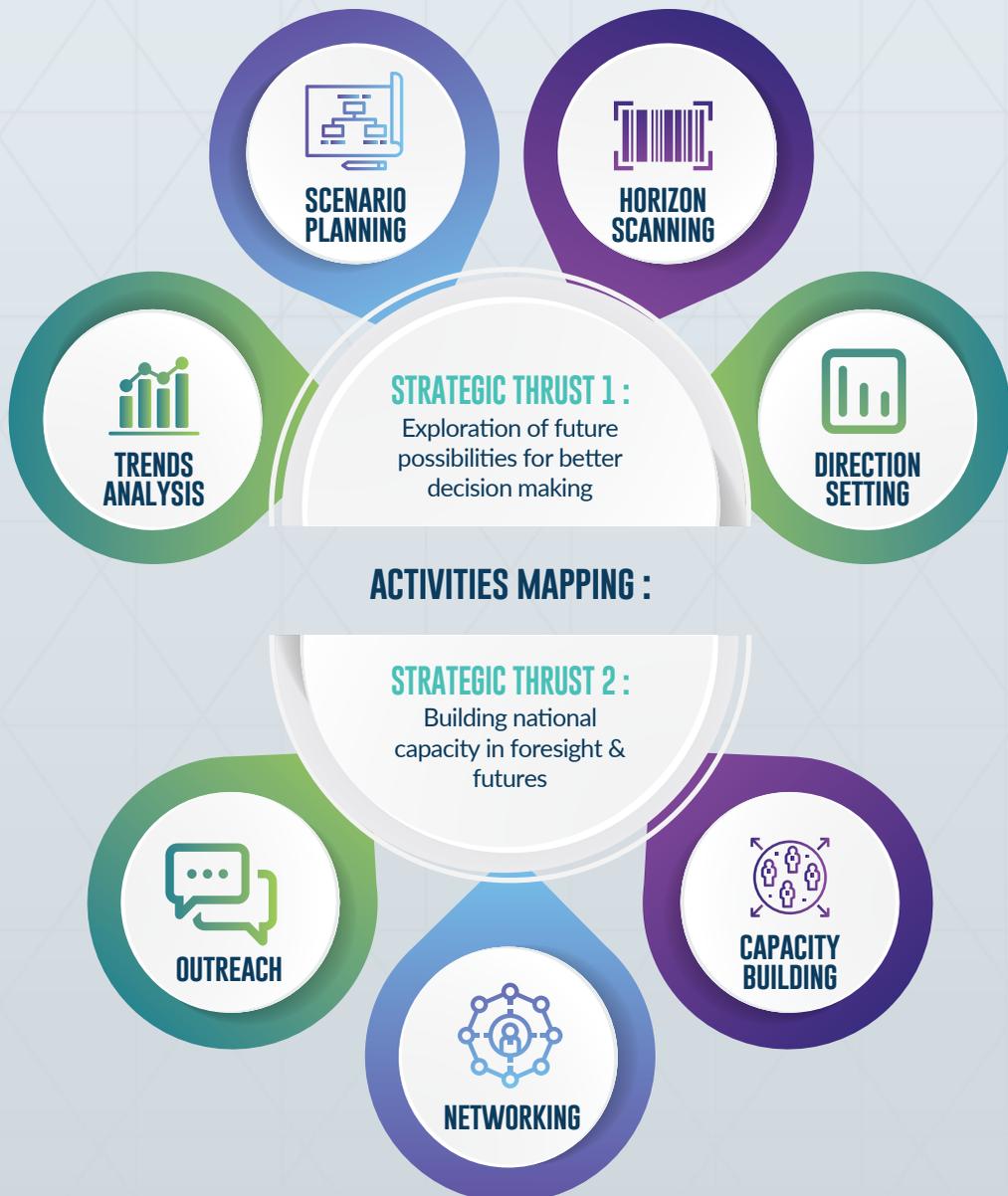
PROCOM is aimed at creating an environment conducive to nurture innovative young generation and to promote exchanges between Malaysia-Japan students. Our partner, Chinese Weekly, was the first overseas organisation entrusted by NAPROCK from Japan to organise a software programming competition in Malaysia based on the Japan Technical College Programming Contest (KOSEN PROCON) module.

FORESIGHT AND FUTURE STUDIES

MALAYSIAN FORESIGHT INSTITUTE

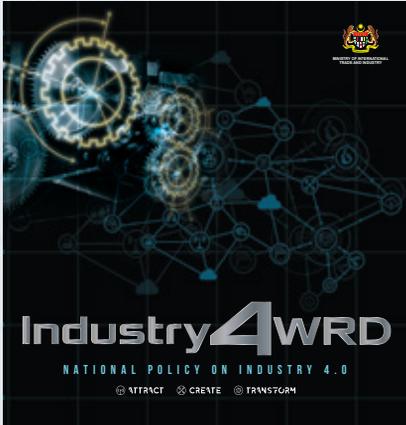
myForesight®

myForesight® is acknowledged as a key high-level instrument in strategising and planning for the future





STRATEGIC THRUST 1 : EXPLORATION OF FUTURE POSSIBILITIES FOR BETTER DECISION MAKING



COMPLETED



INDUSTRY 4WRD : NATIONAL POLICY ON INDUSTRY 4.0

Due to the breadth and depth of the manufacturing industry and its related services, this document was prepared through consultations with multiple ministries, agencies and industry players. The topics covered are linked to Malaysia’s businesses—their competitive advantages, drivers, potential disruptors and technology developments—in the manufacturing industry and related services.

THE OUTCOME

This document targets a range of stakeholders, with the aim of encouraging manufacturing firms to work with the entire manufacturing ecosystem to address the challenges and act on the identified enablers.

COLLABORATORS :



COMPLETED



MALAYSIAN SHIPBUILDING/SHIP REPAIR INDUSTRY : POSITIONING IN THE INDUSTRY 4.0

In supporting industry development, MIGHT continuously acts as a bridge between the industry and the government—advocating the use and adoption of high technology products and processes. As the 4th Industrial Revolution is expected to impact various sectors, industries and economies, the SBSR industry players need to evolve from the traditional methods of building ships towards adopting modern disruptive technology, i.e. big data, artificial intelligence, 3D design, etc., of which can be regarded as Shipbuilding 4.0. The definition of Shipbuilding 4.0 could be characterised by the adaptability, resource efficiency and close interaction between shipowner and shipbuilder with real-time monitoring where the design, shipbuilding, operation and maintenance are automated and digitised.

THE OUTCOME

This report provides an insight to the industry as well as its readiness to embark on its SBSR 4.0 journey.

COLLABORATORS :





STRATEGIC THRUST 1 :

EXPLORATION OF FUTURE POSSIBILITIES FOR BETTER DECISION MAKING



COMPLETED



NATIONAL ANTI-CORRUPTION PLAN (NACP) 2019-2023

The National Anti-Corruption Plan (NACP) is an anti-corruption policy in Malaysia that reflects the peoples' expectations for a greater corrupt-free nation that promotes transparency, accountability and integrity culture in every Malaysian.

Prime Minister Tun Dr. Mahathir Mohamad launched the National Anti-Corruption Plan (NACP) on 29th January 2019.

THE OUTCOME

This plan will help achieve Malaysia's vision towards being a corrupt-free nation by the year 2023. Malaysia needs all the support and commitment to put an end to any form of corruption.

COLLABORATORS :



ON-GOING



FUTURE ROLE OF SOCIAL INSTITUTE OF MALAYSIA

16th August 2018, Institut Sosial Malaysia (ISM)

"All that is valuable in human society depends upon the opportunity for development accorded the individual." – Albert Einstein

MIGHT, through myForesight®, recently had the opportunity to listen and discuss with the Social Institute of Malaysia (ISM) to find nuanced answers on how the nation can become the centre of excellence in the field of social development. As a result, the discussion probed into the critical challenges of Malaysia's social development learned about how ISM will play a central role in driving the agenda. Articulating ISM's views was its Director, Dr. Al Azmi bin Bakar, asserting ISM's commitment and effort to produce skilled and professional social practitioners to give the country the much needed depth to face future social challenges.

THE OUTCOME

The discussion probed into the critical challenges of Malaysia's social development.

COLLABORATORS :





STRATEGIC THRUST 2 : BUILDING NATIONAL CAPACITY IN FORESIGHT & FUTURES



COMPLETED



PRESENTING ON MYFORESIGHT® ACTIVITIES TO MBA STUDENTS FROM CHINA EUROPE INTERNATIONAL BUSINESS SCHOOL

28th February 2018, MIGHT Partnership Hub, Cyberjaya

As part of the EMBA programme, 38 Global EMBA students from China Europe International Business School (CEIBS) and IESE Business School, Barcelona organised a visit to MIGHT-myForesight® for their overseas modules. The overseas modules offer participants first-hand knowledge of the respective countries, in terms of the economic landscape and challenges faced by selected companies.

MIGHT-myForesight® shared their experience on high technology outlook and our partnership spirit in bringing in collaborations between government and industry to develop and strengthen the local high technology ecosystem. MIGHT-myForesight® was represented by Mr. Abdul Halim Bisri and Mr. Norsam Tasli Mohd Razali.

COLLABORATORS :  CEIBS



COMPLETED



FORESIGHTCLUB@UTHM 2018 SERIES

2nd March 2018, MIGHT Partnership Hub, Cyberjaya

The 2018 academic year was kick-started with a briefing session for 20 pre-selected students from the Department of Technology and Management, Faculty of Technology Management and Business, UTHM. ForesightClub is part of the myForesight® outreach programme for undergraduate students that aims to spread knowledge and understanding of Foresight, its tools and its potential usages.

During this session, they were introduced to the usage of 'Future Deck' to assist and stimulate thinking on selected research topics that will be undertaken by them for their Final Year Projects. Future Deck is a compilation of megatrends with supporting keywords, facts and figures classified under six perspectives – Social, Technology, Economic, Environment, Politics as well as Values. These megatrends are expected to assist in developing and strengthening their research findings and discussions.

COLLABORATORS :  UTHM
Universiti Tun Hussein Onn Malaysia



STRATEGIC THRUST 2 : BUILDING NATIONAL CAPACITY IN FORESIGHT & FUTURES



COMPLETED



FORESIGHTCLUB@UTHM : PROJEK SARJANA MUDA 2 (PSM II) FINAL YEAR PRESENTATION

On 2nd December 2018, another final paper presentation from Universiti Tun Hussein Onn's (UTHM) ForesightClub took place at the Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia. The programme involved 23 pre-selected students from UTHM's Faculty of Technology Management and Business.

This programme was a continuation on the introduction of 'Future Deck' for the first group of students where they were trained to assist and stimulate their thinking on selected research topics for their final year projects.

A 'Future Deck' is a compilation of megatrends with supporting keywords, facts and figures classified under 6 perspectives – Social, Technology, Economic, Environment, Politics and Values.

Leveraging on the countless hours of training and consultations conducted by myForesight®, the collaboration mapped out a simple framework to measure these megatrends to assist the students develop their research findings.

The programme aims to encourage young Malaysian entrepreneurs to pursue opportunities in various emerging technology fields. Contributing time and experience to the cause were myForesight's senior research analysts, Nadia Sullivan and Mohd Hasan Mohd Saaid, who formed a panel of moderators in judging the students' ideas.

The outreach programme was a joint-effort by MIGHT and UHTM to provide an outlook on all-round foresight tools and applications in order to stretch the nation's foresight ambition holistically.

COLLABORATORS :  **UTHM**
Universiti Tun Hussein Onn Malaysia



STRATEGIC THRUST 2 : BUILDING NATIONAL CAPACITY IN FORESIGHT & FUTURES

COMPLETED



DIGITAL GOVERNMENT FOR TRANSFORMATION TOWARDS SUSTAINABLE AND RESILIENT SOCIETIES

5th April 2018, Singapore

"Digital Government for Transformation Towards Sustainable and Resilient Societies" was organised by UNDP Global Centre for Public Service Excellence with GovTech Singapore and the United Nations Department of Economic and Social Affairs (UNDESA), Division for Public Administration and Development Management (DPADM) and United Nations Project Office on Governance (UNPOG). The event was held from 2nd to 6th April in Singapore and focuses on the importance to build a resilient society against the increasing risks and shocks of various kinds—including economic, social, environmental, and security.

Panel Discussion on Technology Foresight and Government Strategy with the title 'Foresight and Government Strategy', myForesight[®], was represented by Mr. Rushdi Abdul Rahim, who shared the Malaysians experience on foresight, connection to digital transformation and how Malaysia is responding on the 4th Industrial Revolution.

COLLABORATORS : 



COMPLETED



UNITAR ECONOMIC FORUM

9th April 2018, UNITAR, Selangor

In line with the government's effort on sustainable development, UNITAR's Faculty of Business Technology and Accounting recently organised the UNITAR Economic Forum, a platform to raise awareness and understanding on the topic among their students.

The panel speakers were Plus Malaysia Bhd Chairman Tan Sri Mohd Sheriff Mohd Kassim, Telekom Malaysia Bhd Chairman and Non-independent Non-executive Director Tan Sri Dr. Sulaiman Mahbob, Institute for Democracy and Economic Affairs President Tunku Zain Al-'Abidin Tuanku Muhriz and MIGHT Senior Vice President Rushdi Abdul Rahim. The session was moderated by Universiti Kebangsaan Malaysia's Institute of Ethnic Studies principal research fellow Professor Datuk Dr. Denison Jayasooria.

The panel speakers discussed and deliberated on the situation, challenges and advancements relating to sustainable development, including the economic growth in the country.

COLLABORATORS : 



STRATEGIC THRUST 2 : BUILDING NATIONAL CAPACITY IN FORESIGHT & FUTURES



COMPLETED



MYAPPRENTICESHIP: 4TH INDUSTRIAL REVOLUTION & FUTURE OF WORK

20th April 2018, PWTC, Kuala Lumpur

MyApprenticeship is a brand-new initiative from NBOS aimed and focused at the placement of youth, women, diploma and/ or degree graduates as well as current workers to take part in the public and private apprenticeship training in order to acquire knowledge, skills and valuable working experience whilst increasing their employability to enter, stay and progress in their line of work. Apart from this, employers stand to gain increased access to recruit potential workers for their organisations.

During the launching of MYApprenticeship at PWTC, myForesight[®] shared insights on how the youth can leverage on Industry 4.0 through a presentation entitled "Industri 4.0 - Challenges and Opportunities for the Youths."

COLLABORATORS : **NBOS**



COMPLETED



FORESTRY IN THE FOURTH INDUSTRIAL REVOLUTION

14th May 2018, University Putra Malaysia (UPM)

Responding to the United Nations Development Program's (UNDP) universal call to action, Malaysia is committed to the serious efforts to mobilise its SDG goals by 2030. In today's constantly changing world, oftentimes, environmental stewardship takes a back seat in favour of development. To establish the aspiration, University Putra Malaysia's Faculty of Forestry and Institute of Forestry Malaysia recently organised a colloquium to discuss the challenges posed by the 4th Industrial Revolution (4IR) development.

In the resulting session, MIGHT's Senior Vice President, Mr. Rusdhi Abdul Rahim shared insights on how the 4IR could impact the industry. Meanwhile, touching on the pool of technologies that would advance progress toward the SDGs, participants were given a fitting explanation on a number of innovative trends that are at work to aid Malaysia's natural resource security agenda.

COLLABORATORS :





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MALAYSIAN BLOCKCHAIN REGULATORY REPORT LAUNCH AND FORUM

5th July 2018, Renaissance Hotel, Kuala Lumpur

At the recent launch of the Malaysian Blockchain Regulatory Report, University Malaya's Law Faculty and its Malaysian Centre of Regulatory Studies (UMCORS) organised two panel discussions anchored around the key findings of the report. Saliiently, the sessions offered profound views on issues pertaining to Initial Coin Offering (ICO) and Personal Data Protection Act (PDPA) in the wake of recently enforced General Data Protection Regulation (GDPR) in the European Union (EU).

The forum is an expansion of the launch to discuss changing efforts on blockchain regulatory frameworks and implementation. During the elaborate forum session discussions against the backdrop of Malaysia's economic competitiveness, panel members deliberated multiple regulatory frameworks in an effort to promote higher innovation. A succession of ideas on implementation and thought-provoking notions were timely addressed to ensure future national regulatory framework does not constraint the technology's economic potential. Some of the ideas highlighted include:

- Unintended consequences of the "The Right to be Forgotten" on account of blockchain's immutable features.
- The need for policymakers to gather a deeper understanding on the technical aspects of blockchain. In turn, this will improve how policies can cater to a wide range of blockchain applications.

MIGHT's Blockchain Programme Director, Mastura Ishak, was notable for sharing her views on blockchain's regulatory headway in Malaysia as she conducted the concluding session together with Mr. Adam Vaziri, Founder and CEO of QRC Group Plc. Stressing that adoption needs a balanced approach, Mastura underscored that Malaysia needed to view blockchain holistically and study other relevant regulations in consideration of the broader group of digital technologies. She further emphasised that a thorough look at blockchain regulation in both financial and non-financial terms was a prerequisite to assess how the technology can improve the country's competitiveness. Mr. Adam Vaziri on the other hand highlighted the need to address ICO contributions and the risks it poses in order to increase the country's readiness to tap into the technology's growth wave.

COLLABORATORS :  **UNIVERSITI MALAYA**



STRATEGIC THRUST 2 : BUILDING NATIONAL CAPACITY IN FORESIGHT & FUTURES



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PUBLIC CONSULTATION ON UN / CEFACT BLOCKCHAIN WHITE PAPER

10th July 2018, Auditorium Dr. Tengku Azzman Mohd Shariffadeen, MIMOS Berhad, Technology Park Malaysia, Selangor

A public consultation session on UN/CEFACT blockchain white paper was recently held at Technology Park Malaysia, as part of Malaysia's initiative to be a key contributor in global standardisation initiative. A precursor to future regulatory framework, the meeting focused on blockchain trade facilitation and supply chain automation. The two-way programme was undertaken under the purview of Technical Committee T/C/G 15, the Malaysian National Mirror Committee for TC 307, the ISO Committee for Blockchain and Distributed Ledger Technology (DLT).

Currently, there are 35 countries on the TC 307 Committee's list of active participants. Meanwhile, another 15 attended as observers. Evidently, the growing number of participating countries reflects swelling interests in the technology's development.

Fueled by technology, UN/CEFACT's collective effort aims to facilitate wider blockchain adoption in various key sectors, especially trade, safety and security. In UN/-CEFACT's view, government-led initiatives will provide a better climate to improve participating countries' competitiveness and readiness to comply with future global standards.

As change comes quickly in technology, the subject of integration with IoT, for example, is what makes global standards becoming increasingly important. During the public feedback session, MIGHT's Director of Blockchain Programme, Ms. Mastura Ishak moderated the technical discussion and subsequently rounded up draft amendments of the white paper to be submitted to UN/CEFACT.

In conclusion, governments' collaborative effort between the public and industry members will largely determine blockchain's take up rate. The UN/CEFACT Blockchain White Paper provides a general guideline of the general requirements needed to accelerate global-scale adoption. Besides individual adoption where the basis of the system is invariably users' trust, at larger national level however, governments must work together to work out a fool-proof adoption framework. On one count, further discussions need to be conducted to convert current groundwork into applicable mandatory requirements that will enable monitoring by the instituting entities.

COLLABORATORS :





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WORLD'S LARGEST BLOCKCHAIN SUMMIT

19th & 20th July 2018, Marina Bay Sands, Singapore

In what was viewed as the largest global blockchain fixture in a while, MIGHT, through the participation of its Blockchain Programme Director, Ms. Mastura Ishak, formed a line up of formidable panelists at the recently concluded World Blockchain Summit. Held at the Marina Bay Sands, Singapore on the 19th and 20th of July 2018, the conference discussed Asia's compelling blockchain regulatory and implementation landscapes. The event is part of the World Blockchain Series that seeks to consolidate the public, industries and governments' interests in the maturing technology. On the back of recent development, the technology is undoubtedly progressing beyond hype. Many among the turnout believed that there was a huge potential for blockchain in financial and non-financial applications. There was thus a sense that gravitating towards faster adoption was the right decision for governments and critically, the outcomes deduced at the conference will serve as an invaluable insight on the challenges and opportunities that lie ahead.

COLLABORATORS : **trescon**



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BLOCKCHAIN WORKSHOP SERIES: BLOCKCHAIN AND GOVERNMENT

10th August 2018, MIGHT, Cyberjaya

Various Malaysian government stakeholders recently took part in the "Blockchain Workshop Series: Blockchain and Government" on the 10th of August 2018. One of MIGHT's flagship events, the workshop series gathered a peer group from diverse government departments to capture local stakeholders' interests in relation to blockchain and Distributed Ledger Technology (DLT).

The agenda was designed to focus on a range of opportunities and challenges that are highly relevant to the Malaysian public sector. With this in mind, the workshop seeks to ensure that the technology is rationalised across broader government frameworks. Further, the workshop series will be providing input for the upcoming Malaysian Blockchain & DLT Outlook 2019 report that will be published in December 2018 to outline multi-stakeholder joint action around blockchain adoption.

In brief, Datuk Dr. Mohd Yusoff Sulaiman (MIGHT) presented as a keynote, "Blockchain and Government".



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After the presentation, workshop participants grouped into four groups to discuss local blockchain and DLT challenges. The opportunity provided participants a stimulating event to discuss the challenges from technology, economy, policy/regulation, environment, social and culture points of views. Finally, each group highlighted the key points deliberated from their discussions.

Evidently, in MIGHT's capacity to promote higher technology adoption, the agency will continue to provide an open platform for government departments and agencies, industries, academia, and other stakeholder groups to gather and analyse their opinions and address their concerns on the various ways the country can benefit from blockchain technology.



COMPLETED



BLOCKCHAIN SHARING SESSION WITH TDA BERHAD

6th September 2018, TDA Berhad, Putrajaya

Jumping aboard the blockchain hype train—a buzzword that still baffles many is something that is piquing wider interests among business and community members. The technology taking off globally offers many benefits and underpins the future trend of digital currency. Chief among the key benefits are increased transparency, minimised roles of intermediaries, reduced costs and faster transactions.

Naturally, almost every business and the vast majority of the community are looking into the new technology. At present however, the question that is on the back of everyone's mind is how the technology can impact their day-to-day business operations.

To foster alignment on the technology adoption and challenges around it, MIGHT's Blockchain Programme Director, Ms. Mastura Ishak was recently invited by Technology Depository Agency (TDA Berhad) to share her ideas and advice.

Attended by TDA Berhad's employees, the session's objective was to spread awareness on blockchain and its potential future applications. Meanwhile, TDA Berhad is currently focusing on Industrial Collaboration Programme (ICP), of which blockchain is a technology that holds great potential to be a conduit to improve current business tools.

The sharing session provided a basis for ongoing dialogue among attending participants to form a better understanding of blockchain. In her view, Mastura explained how blockchain differed from Bitcoin/ cryptocurrency.

COLLABORATORS :





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RAISING THE GAME OF MALAYSIAN MANUFACTURING AND SERVICES WITH NEW ENABLING TECHNOLOGIES

4th October 2018, Institute of Strategic and International Studies (ISIS) Malaysia, Sheraton Imperial Kuala Lumpur

The Praxis Economic Seminar is an annually held marquee event that converts industry knowledge and thoughts into action. This year, the seminar featured a mix of guests and speakers. With a fitting tagline, #GameChangers2019, the objective of the seminar was to keep local businesses technology savvy and aware of the key issues that lie ahead. A review of the current landscape sought to bridge knowledge gaps and provide elaborate perspectives on how to plan ahead for the future.

MIGHT's Senior Vice President, Mr. Rushdi Abdul Rahim, was a panellist at the seminar. He was invited by the Institute of Strategic and International Studies Malaysia (ISIS) to generate thought provoking discussions on 'Raising the Game of Malaysian Manufacturing and Services with New Enabling Technologies'. There is also widespread recognition of the potential opportunities and threats of emerging technologies. All in all, the seminar focused on the capability of Malaysian manufacturers and service providers to adapt. Pertinently, the seminar addressed the burning issues around the impact of existing production, distribution and supply channels. A final discussion point essentially provided an important measurement of the Malaysian government and industry players' readiness to accelerate technology adoption and improve innovation activities.

COLLABORATORS :



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SCREENING FUTURE SCENARIOS TO CHAMPION GREATER INTEGRITY

16th & 17th October 2018, MIGHT, Cyberjaya

On the 16th and 17th of October 2018, myForesight® conducted a scenario planning workshop with the National Centre for Governance, Integrity and Anti-Corruption (GIACC). In effect, the use of MIGHT's flagship programme to create alternative stories about the future strengthens GIACC's outgoing strategy to foster greater national integrity.



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By creating plausible scenarios around the nation's governance and business practices, the workshop is a significant effort to support Malaysia's renewed integrity cause. To advance the organisation's internal capacity on Foresight knowledge, objectively, the assistance provided by myForesight® was structured to improve the agency's ability to measure integrity development along Malaysia's next National Corruption Plan that will run through from 2019 to 2023.

In response to the concern raised by Prime Minister Tun Dr. Mahathir Mohamad where the premier recently remarked, "The government commitment is to achieve the principle of wanting Malaysia to be known for integrity and not corruption", the agency has published the National Corruption Plan 2019 - 2023 and will be rolling out a pipeline of programmes to implement a joint-action that maps across to Malaysia's public and private sectors. Ultimately, by applying the lens of plausible future scenarios, the agency sees the greatest impact in areas that will generate tangible results to improve the nation's integrity.

COLLABORATORS :



Pusat Governance,
Integriti dan
Anti-Basuh
 Nasional



COMPLETED



UNIVERSITY OF MALAYA'S FACULTY OF SCIENCE VISIT TO MYFORESIGHT®

23rd November 2018, MIGHT, Cyberjaya

On the 23rd of November 2018, myForesight® received a study visit from the Department of Science and Technology Studies, Faculty of Science, University of Malaya.

A total of 13 third-year 'Policy and Management of Science and Technology' students took part in the visit. The students spent half a day in MIGHT's Cyberjaya main office and experienced first-hand the dynamic roles myForesight® plays as one of the key think-tank agencies that provides crucial input to national Science, Technology and Innovation (STI) agenda.

Significantly, the students received coaching in the valuable skills and exposure on a potential career prospect in the field of foresight. The students also observed how varied and elaborate the work myForesight® does in foresight techniques, tools and processes in the interest of policy-making to boost the nation's high-technology industry pursuit.

COLLABORATORS :



UNIVERSITI
MALAYA



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MPC FORESIGHT MANAGEMENT RETREAT

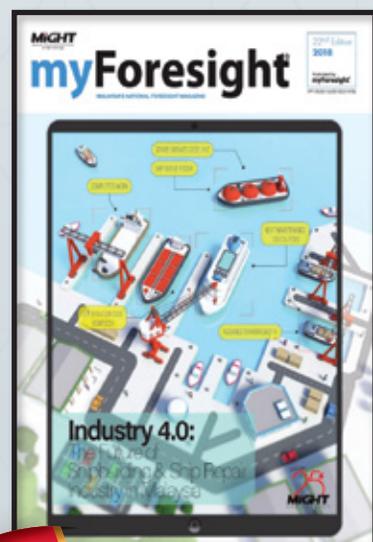
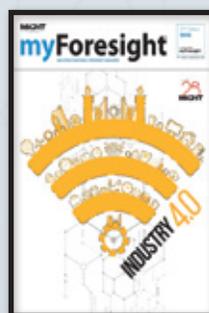
29th November 2018, Productivity Hall, Malaysia Productivity Corporation, Petaling Jaya

At the Malaysian Productivity Council's (MPC) recent management retreat, myForesight® Directors, Rushdi Abdul Rahim and Mohd Nurul Azammi Mohd Nudri were invited to share on what actions government agencies need to carry out an effective long horizon planning exercise.

In addition to a brief introduction on foresight, saliently, Mr. Rushdi Abdul Rahim and Mr. Mohd Nurul Azammi discussed at length the importance of measuring and managing the total impact of an uncertain future using scenarios. Apart from stressing that scenario planning can avoid the dangers of linear, one dimensional thinking, both myForesight® representatives took turns to accommodate a host of questions posed by the turn-up with regard to planning #BetterFutures. The event took place on the 29th of November 2018 at MPC's office in Petaling Jaya.

COLLABORATORS : **MPC**
MALAYSIA PRODUCTIVITY CORPORATION

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MIGHT IN THE NEWS 2018



CYRILKIN, An Egyptian scholar asserted the vast potential of genomic editing in the care of patients and prevention of gene-related diseases among healthy people.

In a public lecture titled 'Public Health, Private Medicine: Reflections on the Impact of the New Genomics' at the Malaysia Industry-Government Group for High Technology (MIGHT) Partnership Hub here today, Dr Ismail Seragudin said that this technique has the ability to correct the conditions caused by changes in the DNA.

However, he expressed that genomic editing can generate fear, leading to moral issues for research.

"You take a cell, edit, reinsert and get the results. So far, the test had been conducted on dogs. It is not done on humans yet, because it is complicated. This is because most genetic diseases are caused by a number of genes interacting with environmental factors."

"Environmental factors such as food, drugs or exposure to toxins can cause epigenetic changes by altering the way molecules bind to DNA or changing the structure of proteins related to the DNA," he said at the talk, moderated by co-chair of MIGHT, Tan Sri Zakri Abdul Hamid.

Seragudin added that this technology can be used during in vitro fertilisation (IVF) where doctors can choose to 'edit' a disease-causing gene.

"It is like selecting a disease-free embryo. Why must we transfer it and make it ready for the carrier? Besides IVF, it should be monitored for hereditary diseases too," he said.

He also called on the Malaysian government to venture into the new genetics technology and its application for future gene-related disease

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Property Highlights



SEFANG, June 13 (Bernama) - Malaysian scientist Dr Siti Kariyiah Mohd Hanafiah is prepared to work with the Health Ministry on the use of antibody-antigens to diagnose tuberculosis (TB) in the country.

The lecturer from Universiti Sains Malaysia who was crowned world champion in the Female International 2018 competition in Cheltenham, the United Kingdom recently, is convinced that if the study is successful, the disease can be detected and prevented early.

Hope my research 'To Find a Hidden Killer' which identifies TB bacteria more accurately, quickly and effectively, would be made possible with the help of biomarkers.

"We have financial constraints and provisions, that's my challenge, so I hope to work with various parties including the Health Ministry if there is an opportunity," she said.

Dr Siti Kariyiah said this as she reported after she returned from the competition at the Kuala Lumpur International Airport (KLIA) here today.

The mother of two said she had been conducting her research for over six years. Her preparation for the competition took about two weeks.

Dr Siti Kariyiah, 33, added that it was difficult to detect tuberculosis even though there was an adequate vaccine.

She captivated the panel and stunned hundreds of spectators at The Arena in Cheltenham through her presentation on the use of antibody-antigens to diagnose TB.

She competed on 15 finalists, some of whom were from Australia, Italy, Ireland, Qatar, Korea and Portugal, before emerging as champion and taking home a trophy and Go Pro camera.

With Dr Siti Kariyiah's recent success, Malaysia has won the competition twice in three consecutive years.

Selesai: 03 July 2018

Sainsitsu muda harap kajian diagnosis TBC boleh diaplikasikan di Malaysia
Terbit: karnasini, 13/06/2018

SEFANG, 13 Jun (Bernama) - Sainsitsu muda Malaysia, Dr Siti Kariyiah Mohd Hanafiah bersedia berkolaborasi dengan Kementerian Kesihatan Berhubung pengiraan penyakit tuberkulosis dengan menggunakan antibodi-antigen untuk diagnosis penyakit Tuberculosis (TBC) di negara ini.

Penyarah Muda dan Universiti Sains Malaysia yang diiktiraf sebagai juara dunia dalam pertandingan Female International 2018 di United Kingdom hembura itu, yakin jika kajian itu berjaya, penyakit TBC dapat dihapus dan diungkap lebih awal.

"Saya berharap kepada kajian yang 'To Find a Hidden Killer' yang mengimpak positif bakteria penyakit TBC dengan lebih tepat, cepat dan mudah menggunakan biomarker."

"Namun, kita ada kekurangan kewangan dan perubatan. Itu lah cabaran saya. Jadi saya berharap untuk berkolaborasi dengan pihak-pihak termasuk Kementerian Kesihatan jika ada peluang," katanya.

Dr Siti, 33, berkata demikian kepada pembanta berita di Lapangan Terbang Antarabangsa Kuala Lumpur (KLIA) di sini hari ini.

Dr Siti juga pernah sa juara BERNAMA.com x5tv (3x) di sini.

Beitika Utama Terbitaku

- Zahid beri keterangan lebih lanjut di SPRM
- Konkrit pembatalan Spasite DNI Katib diingatkan pejabat awam
- IMCB SPRM ambil tindakan Zahid hampir serendah jari
- Statistik ekonomi kekal positif" berhampir laka kahwin kanak-kanak Thailand-TM
- Tipu lagi menteri berkaitan sengketa ikan-ikan di Malaysia

Artikel Eksekutif bertajuk 'Muda Berprestasi' diterbitkan oleh MAMPU

Applications open for LIA Malaysia 2018 programme

KBALA LUMPUR: Innovation Accelerator (LIA) has now opened applications for the LIA Malaysia 2018 Accelerator programme (LIA Programme), an intensive 16-week programme of practical entrepreneurship skills and expert business mentoring.

The aim of the programme is to match Malaysian researchers, academics, independent technology entrepreneurs and early-stage technology start-ups with expert business mentors based in the UK, empowering home-grown talent to secure investment and accelerate their international business growth.

LIA in a statement yesterday said, the programme would be run in collaboration with the Malaysian Industry-Government Group for High Technology (MIGHT).

"It is an exciting follow-on to the Leaders in Innovation Fellowships (LIF) programme, a Royal Academy of Engineering initiative supported by the UK Government's Newton Fund. Now in its fourth year, the LIF programme is an intensive residential programme of expert coaching and entrepreneurship training for innovation fellows from the 14 Newton Fund partner countries. LIA Malaysia is the first in-country accelerator programme to spin out of the highly successful LIF."

Thirty of the most promising teams will initially be shortlisted to join a three-day boot camp in Kuala Lumpur, where 15 teams will then be selected for the one-on-one 16-week mentored acceleration programme.

At the end of the programme, the participants will pitch to international investors and potentially secure funding for what could be Southeast Asia's next Tech Unicorn.

Closing date is on July 16 and

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Program ini bertujuan untuk meningkatkan minat pelajar dalam bidang STEM (Sains, Teknologi, Kejuruteraan dan Matematik) dan menyediakan mereka dengan kemahiran yang diperlukan untuk menghadapi cabaran dunia pekerjaan.

Program ini akan dijalankan di seluruh negara dan akan melibatkan kerjasama antara kerajaan, sektor swasta dan komuniti.

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Harun Tanaga Saris, Penolong Naib Setiausaha Perindustrian dan Perdagangan (SPP) TNB, bersama beberapa pegawai TNB dan TNBES dalam majlis persembahan. (Dua orang lelaki di hadapan kiri dan kanan sedang memegang trofi).

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TNBES teroka potensi projek lebuh raya hijau

Melakukan Abid Aziz memulakan sesi persembahan.

KUALA LUMPUR: TNB Energy Services Sdn Bhd (TNBES), anak syarikat Tenaga Nasional Bhd (TNB) bekerjasama dengan Malaysia Industry-Government for High Technology (MIGHT) dan Semai-Desaru Expressway Bhd (SDEB) untuk Tenaga Hijau (GEP) di sepanjang Lebuh Raya Semai-Desaru (E22) di Johor.



Melakukan Abid Aziz memulakan sesi persembahan.

Pakar khidmat rel Malaysia diiktiraf negara serantau

Filipina, Vietnam, Thailand sedia guna kemahiran firma tempatan

Melakukan Abid Aziz memulakan sesi persembahan.

私人界出資 政府协助 新闻产车不动用税款

产车 3.0 新能源车亮相

魏家祥:2 合作伙伴亏损上亿

Advertisement for CTRM (China Textile & Apparel Trade Mart) featuring a large image of a building and text in Chinese.

Advertisement for a business partnership or investment opportunity, featuring text in Chinese and a small image of a person.



Our Pillars

#WEMAKEITHAPPEN





of Strength

#MIGHTMALAYSIA



Yearly Planner 

2019

2020

YEARLY PLANNER 2019

	JANUARY	FEBRUARY	MARCH	APRIL
SUN				
MON				01
TUE	01			02
WED	02			03
THU	03			04
FRI	04	01	01	05
SAT	05	02	02	06
SUN	06	03	03	07
MON	07	04	04	08
TUE	08	05	05	09
WED	09	06	06	10
THU	10	07	07	11
FRI	11	08	08	12
SAT	12	09	09	13
SUN	13	10	10	14
MON	14	11	11	15
TUE	15	12	12	16
WED	16	13	13	17
THU	17	14	14	18
FRI	18	15	15	19
SAT	19	16	16	20
SUN	20	17	17	21
MON	21	18	18	22
TUE	22	19	19	23
WED	23	20	20	24
THU	24	21	21	25
FRI	25	22	22	26
SAT	26	23	23	27
SUN	27	24	24	28
MON	28	25	25	29
TUE	29	26	26	30
WED	30	27	27	
THU	31	28	28	
FRI			29	
SAT			30	
SUN			31	
MON				

	MAY	JUNE	JULY	AUGUST
			01	
			02	
01			03	
02			04	01
03			05	02
04	01		06	03
05	02		07	04
06	03		08	05
07	04		09	06
08	05		10	07
09	06		11	08
10	07		12	09
11	08		13	10
12	09		14	11
13	10		15	12
14	11		16	13
15	12		17	14
16	13		18	15
17	14		19	16
18	15		20	17
19	16		21	18
20	17		22	19
21	18		23	20
22	19		24	21
23	20		25	22
24	21		26	23
25	22		27	24
26	23		28	25
27	24		29	26
28	25		30	27
29	26		31	28
30	27			29
31	28			30
	29			31
	30			

	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
01				01
02				02
03		01		03
04		02		04
05		03		05
06		04	01	06
07		05	02	07
08		06	03	08
09		07	04	09
10		08	05	10
11		09	06	11
12		10	07	12
13		11	08	13
14		12	09	14
15		13	10	15
16		14	11	16
17		15	12	17
18		16	13	18
19		17	14	19
20		18	15	20
21		19	16	21
22		20	17	22
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24		22	19	24
25		23	20	25
26		24	21	26
27		25	22	27
28		26	23	28
29		27	24	29
30		28	25	30
		29	26	31
		30	27	
		31	28	
			29	
			30	

YEARLY PLANNER 2020

	JANUARY	FEBRUARY	MARCH	APRIL
SUN			01	
MON			02	
TUE			03	
WED	01		04	01
THU	02		05	02
FRI	03		06	03
SAT	04	01	07	04
SUN	05	02	08	05
MON	06	03	09	06
TUE	07	04	10	07
WED	08	05	11	08
THU	09	06	12	09
FRI	10	07	13	10
SAT	11	08	14	11
SUN	12	09	15	12
MON	13	10	16	13
TUE	14	11	17	14
WED	15	12	18	15
THU	16	13	19	16
FRI	17	14	20	17
SAT	18	15	21	18
SUN	19	16	22	19
MON	20	17	23	20
TUE	21	18	24	21
WED	22	19	25	22
THU	23	20	26	23
FRI	24	21	27	24
SAT	25	22	28	25
SUN	26	23	29	26
MON	27	24	30	27
TUE	28	25	31	28
WED	29	26		29
THU	30	27		30
FRI	31	28		
SAT		29		
SUN				
MON				

	MAY	JUNE	JULY	AUGUST
		01		
		02		
		03	01	
		04	02	
01		05	03	
02		06	04	01
03		07	05	02
04		08	06	03
05		09	07	04
06		10	08	05
07		11	09	06
08		12	10	07
09		13	11	08
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12		16	14	11
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20		24	22	19
21		25	23	20
22		26	24	21
23		27	25	22
24		28	26	23
25		30	27	24
26			28	25
27			29	26
28			30	27
29			31	28
30				29
31				30
				31

	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
			01	
			02	
01			03	01
02			04	02
03		01	05	03
04		02	06	04
05		03	07	05
06		04	08	06
07		05	09	07
08		06	10	08
09		07	11	09
10		08	12	10
11		09	13	11
12		10	14	12
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16		14	18	16
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20		18	22	20
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26		24	28	26
27		25	29	27
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		29		31
		30		
		31		

MON TUE WED THU FRI SAT SUN

DATE:

MIGHT