CHARTING A NEW PATH FOR INNOVATION:

I-CONNECT &
MALAYSIA OPEN SCIENCE PLATFORM (MOSP)

7 November 2019

Malaysian Collaborative Network Platform for Disruptive Innovation (I-CONNECT) & Malaysia Open Science Platform (MOSP) Initiatives

In its efforts to enhance national innovation ecosystem towards wealth creation and societal well-being, the Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC) and the Academy of Sciences Malaysia (ASM) will be implementing two flagship initiatives: Malaysian Collaborative Network Platform for Disruptive Innovation (I-CONNECT) and Malaysia Open Science Platform (MOSP).

I-CONNECT is a collaborative network in four strategic areas: Industry 4.0, Fintech in Islamic Finance, Health & Wellness, and Halal Supply Chain. It aims to create and nurture a conducive innovation ecosystem in Malaysia towards increasing disruptive innovation and finally, enable Malaysia to leverage on new economic opportunities for Malaysian industries to enter emerging global markets.

MOSP is a trusted platform that enables accessibility and sharing of research data aligned with the national priorities and international best practices to strengthen science, technology and innovation (STI) collaborative ecosystem for Malaysia.

The launching of I-CONNECT and MOSP will introduce and promote the initiatives to the relevant stakeholders and target groups. Following are the agenda of the event:
• Introductory session of I-CONNECT
• Launching of I-CONNECT & MOSP Initiatives
• Exploratory Discourse: Charting the Way Forward for MOSP

PROGRAMME

9.00 am   **Arrival of Guests**
              Registration & Breakfast

INTRODUCTORY SESSION: MALAYSIAN COLLABORATIVE NETWORK PLATFORM FOR DISRUPTIVE INNOVATION (I-CONNECT)

9.30 am   **Welcome Remarks & Introduction of Malaysian Collaborative Network Platform for Disruptive Innovation (I-CONNECT) Initiative**
by YM Academician Tengku Datuk Dr Mohd Azzman Shariffadeen FASc
Chairman, ASM I-CONNECT Steering Committee

9.45 am   **Sharing & Discussion Session on Creating & Nurturing a Conducive Innovation Ecosystem For Malaysia Through Collaborative Network**
Moderator:
YM Academician Tengku Datuk Dr Mohd Azzman Shariffadeen FASc

Panellists:
Collaborative Research in Electronics & Electrical Sector: A Successful Model of Collaborative Network & CREST's Experience as a Neutral Entity
Mr Jaffri Ibrahim
Chief Executive Officer, Collaborative Research in Engineering Science & Technology (CREST)

Industry Advancement and Penetrating Local & Global Markets: Industry's Experience in A Collaborative Network-Based Project
Mr Royce T.S. Tan
Director for Industrial 4.0 & Didactics, Bosch Rexroth Sdn Bhd

Bringing R&D to Commercialisation: Research Community's Experience in a Collaborative Network-Based Project
Professor Ir Dr Mohd Fadzil Ain
Dean of School of Electrical & Electronic Engineering,
Universiti Sains Malaysia

Advancing Targeted Malaysian Industrial Sectors Towards Becoming a Developed Nation: Government's Experience in a Collaborative Network-Based Project
Dr Fazilah Shaik Allaudin
Senior Deputy Director, Planning Division, Ministry of Health Malaysia

Fulfilling Consumer & Market Needs: Civil Society's Experience in a Collaborative Network-Based Project
Ir Ts Choo Kok Beng FASc
Chief Executive Officer, Malaysian Service Providers Confederation (MSPC)

10.20 am   **Q&A Session**
11.30 am   **Break**

LAUNCHING OF MALAYSIAN COLLABORATIVE NETWORK PLATFORM FOR DISRUPTIVE INNOVATION (I-CONNECT) & MALAYSIA OPEN SCIENCE PLATFORM (MOSP) INITIATIVES

12.05 pm   **Arrival of YB Puan Yeo Bee Yin**
Minister of Energy, Science, Technology, Environment and Climate Change

12.15 pm   **Welcome Remarks by Professor Datuk Dr Asma Ismail FASc**
President, Academy of Sciences Malaysia

12.25 pm   **Speech by YB Puan Yeo Bee Yin**

12.45 pm   **Press Conference**
Guests proceed to networking lunch

EXPLORATORY DISCOURSE: **CHARTING THE WAY FORWARD FOR MALAYSIA OPEN SCIENCE PLATFORM (MOSP)**

2.00 pm   **Welcome Remarks and Introductory of Malaysia Open Science Platform Initiative**
Professor Dr Noorsaadah Abdul Rahman FASc
Chairperson, Malaysia Open Science Alliance

Discussion Session on Open Science
Moderator:
Academician Professor Emerita Datuk Dr Mazlan Othman FASc
Director, International Science Council Regional Office for Asia and the Pacific (ISC ROAP)

Panellists:
Open Science Experience in Japan
Professor Dr Kazutsuna Yamaji
Director of Research Centre for Open Science and Data Platforms, National Institute of Informatics, Japan

Open Science and Enabling Infrastructure – A View from Australia
Andrew Howard
Cloud Team Manager, National Computational Infrastructure (NCI), Australia

Malaysian Researchers on Open Science Readiness: Call for Action
Professor Dr Abrizah Abdullah
Faculty of Computer Science & Information Technology, University of Malaya

Open Science towards Realising Open Innovation: A Case Study
Mallek Aminullah
Innovation Futurist, Alpha Catalyst Consulting

4.00 pm   Q&A Session
5.00 pm   Afternoon Tea & Adjourn

INTRODUCTORY SESSION OF MALAYSIAN COLLABORATIVE NETWORK PLATFORM FOR DISRUPTIVE INNOVATION (I-CONNECT)

"Creating and Nurturing a Conducive Innovation Ecosystem for Malaysia through Collaborative Network"

The innovation chasm caused most of the ground-breaking and high potential research and patents to remain un-commercialised and shelved. Information from the market cannot flow into the research community, leading to a huge amount of research conducted without taking into account the market demand and thus has little commercial value. To address this issue, Malaysia needs a conducive innovation ecosystem through collaborative network.

The core of the collaborative network in I-CONNECT is a shared value that forms a conducive ecosystem for disruptive innovation. Through this network, the collaboration between academia and industry in demand-driven R&D will increase and the innovation chasm will be closed. Malaysia will not only be able to create demand for our high-skilled talent and knowledge workers, but also be able to tap into talents throughout the region.

An Introductory Session for Malaysian Collaborative Network for Disruptive Innovation (I-CONNECT) is to discuss and promote the collaborative network model among the neutral entities and quadruple helix. At the end of this session, we hope to gather ideas from the representative of each quadruple helix to bridge the innovation chasm and eventually bring knowledge-based high-value products and services to the market.

THE MODERATOR

YM Academician Tengku Datuk Dr Mohd Azzman Shariffadeen FASc
Chairman, ASM I-CONNECT Steering Committee

Tengku Mohd Azzman Shariffadeen graduated from the University of Manchester with a bachelor's degree in electrical engineering, and master's and doctoral degree in control systems. He first served for eleven years as an academic at the Faculty of Engineering, University of Malaya. For the next twenty-one years, he was the founding Director-General and CEO of the Malaysian Institute of Microelectronic Systems (MIMOS). He led significant strategic national efforts in R&D and capacity building focused on ICT and microelectronics. As CEO of MIMOS, he also served for nine years as the ex-officio Secretary of the National Information Technology Council. In this capacity, he was instrumental in the formulation and implementation of national ICT policies and strategies, in particular, the Multimedia Super Corridor (MSC) and the National IT Agenda (NITA). He is a Senior Fellow and Vice-President of the Academy of Sciences Malaysia where his chaired several flagship studies. He is also a board member of the Malaysia Toray Science Foundation, member of the New Club of Paris, and Pernec Integrated Network Systems Sdn Bhd.

THE PANELLIST

Mr Jaffri Ibrahim
Chief Executive Officer
Collaborative Research in Engineering Science & Technology (CREST)

Jaffri Ibrahim obtained his bachelor's degree from the University of Iowa, USA where he majored in Computer Science and minored in Business Studies. He began his career as an entrepreneur that built an information service in Klang Valley in 1986. He then startedhis technology consulting business in 1994 focusing on the Oil & Gas industry. Prior to joining CREST, he was Vice-President of Business and Technology Advisory Division of Malaysia Debt Ventures (MDV) Bhd, a Venture Debt company under Minister of Finance (Incorporated) that facilitates the development of Information and Communications Technology (ICT), Biotechnology, Green Technology and other emerging technology sectors via innovative financing.

Mr Royce T.S. Tan
Director
Industrial 4.0 & Didactics Bosch Rexroth Sdn Bhd

Royce Tan obtained his bachelor's degree in Electrical Engineering at Royal Melbourne Institute of Technology in 1984, subsequently completed his Postgraduate Research Program with scholarship in Electrical Engineering in 1986. He also holds a Master in Business Administration from Edinburgh University, sponsored by Bosch. Spanning 26 years in the Bosch Group, he has extensive experience in Automotive OEM Manufacturing, Renewable Energy, and Industry 4.0. He has been active in teaching and coaching deaf people for the last 30 years, where it shapes his life views and communication skills.

THE PANELLIST

Professor Ir Dr Mohd Fadzil Ain
Dean, School of Electrical and Electronic Engineering
Director, Collaborative Microelectronic Design Excellence Centre (CEDEC)
Universiti Sains Malaysia

Professor Ir Dr Mohd Fadzil Ain received his bachelor's degree in Electronic Engineering from Universiti Teknologi Malaysia in 1997, master's degree in Microwave Engineering from Universiti Sains Malaysia in 1999 and PhD in Microwave Engineering from the University of Birmingham, United Kingdom in 2003. He has been actively involved in technical consultancy with several companies in repairing electronic and microwave equipment. His current research interests include MIMO wireless system on FPGA/DSP, Ka-band transceiver design, dielectric antenna, RF characterisation of dielectric material and microwave propagation study. He has commercialised the Heater Controller for Schott Glass Malaysia Sdn Bhd product. Five patents have been granted under his name.

Dr Fazilah Shaik Allaudin
Senior Deputy Director, Planning Division Ministry of Health Malaysia

Dr Fazilah holds an MD from the National University of Malaysia (1991) and an MBA from the University of Toledo, Ohio (1996). She is professionally certified in enterprise architecture (TOGAF 9.0) and in governance & management of enterprise IT (COBIT 5.0). Her current responsibilities cover the planning of Health Policies, Facility and eHealth. Prior to this, she has had various roles including Director of Telehealth Division and Deputy Director of Selayang Hospital. She has been with the Ministry of Health for over 25 years, mainly in planning, project management and implementation of Hospital Information Systems. Since 2010, she has been leading digital strategy for the national health system transformation agenda and is extensively involved in digital health and innovation strategies in both public and private sector. In her current capacity, her role covers eHealth collaborations domestically, regionally and globally and has been engaged by WHO for eHealth expert consultations and eHealth missions.

THE PANELLIST

Ir Ts Choo Kok Beng FASc
Chief Executive Officer
Malaysian Service Providers Confederation (MSPC)

Ir Ts Choo is a Civil Engineer and Group Managing Director of the Vertitech Group which specialises in the appraisal and rehabilitation of building and structure. He is very active in civil societies for more than 30 years, having served as the President of the Institution of Engineers Malaysia, Technological Association of Malaysian, Secretary-General of the ASEAN Academy of Engineering and Technology and ASEAN Federation of Engineering Organisations. Currently, he is the President of the ASEAN Service Providers Confederation, Founding Fellow and Secretary-General of the Academy of Engineering and Technology for the Developing World, and Engineering Advisor to the International Science, Technology and Innovation Centre (ISTIC) a category two organisation under UNESCO. He is a board member of the Malaysian Highway Authority and Malaysian Board of Technologist and Country's Champion for the Productivity Nexus for Professional Services.

EXPLORATORY DISCOURSE OF
MALAYSIA OPEN SCIENCE PLATFORM
"Charting the Way Forward for Malaysia Open Science Platform (MOSP)"

Open Science movement is gaining traction in many countries with international scientific bodies such as International Science Council (ISC) and the United Nations Educational, Scientific and Cultural Organization (UNESCO) are championing and advocating Open Science globally. The international principle of making research data Findable, Accessible, Interoperable and Reusable (FAIR) will not only democratise knowledge; it will also reinforce open scientific inquiry and integrity, enable better research management and promote data-intensive research. Integrating the diverse data streams and huge datasets across multiple disciplines offers unprecedented insights and solutions towards local, regional and global complex challenges.

Malaysia Open Science Platform (MOSP) is initiated with the goal of making Malaysia's research data as a valuable national asset by developing a trusted platform that enables accessibility and sharing of research data aligned to national priorities and international best practices. In the future, MOSP will be linked to other Open Science Platform globally. This digitally connected platform will be a conduit for industry to tap into the knowledge in the research space and enabling open innovation.

MOSP is a strategic transformative initiative to strengthen Collaborative Innovation Ecosystem for Malaysia. We welcome you to participate and contribute through the Malaysia Open Science Alliance activities that will be updated in MOSP Information Portal: https://www.akademisains.gov.my/mosp

An Exploratory Discourse Session for Malaysia Open Science Platform (MOSP) is organised to create awareness on Open Science, introduce MOSP initiative and understand our current landscape. Different approaches of Open Science globally will be shared by the international experts for us to learn best practices.

THE MODERATOR

Academician Professor Emerita Datuk Dr Mazlan Othman FASc
Director, International Science Council Regional Office
for Asia and the Pacific (ISC ROAP)

Mazlan Othman obtained her doctoral degree in Astrophysics from the University of Otago, New Zealand. On returning to Malaysia in 1981, she pioneered an academic programme on astrophysics at Universiti Kebangsaan Malaysia. She was seconded to the Prime Minister's Department in 1990 to set up and head the Planetarium Division, which subsequently became the Space Science Studies Division in 1993. As its first Director-General, she also led the design and manufacture of Malaysia's first remote-sensing satellite, TiungSAT-1, launched in 2000. In 1999, Mazlan was appointed Director of the United Nations Office for Outer Space Affairs (UNOOSA) and returned to Malaysia to set up the National Space Agency (ANGKASA). In this capacity, she established the National Observatory in Langkawi and National Space Centre in Selangor. She headed the National Angkasawan (Astronaut) Programme which saw the launch of the first Malaysian to the International Space Station in 2007. She was elected as a Senior Fellow of ASM in 2016 where she co-chaired few initiatives.

Professor Dr Kazutsuna Yamaji
Director, Research Centre for Open Science and Data Platforms,
National Institute of Informatics, Japan

Professor Dr Kazutsuna Yamaji began his research career as an ICT research scientist in brain science imaging and the development of neuroinformatics database system in the early 2000s. In 2008, he began to be involved in the development of Japan's Academic Access Management Federation called GakuNin, providing trust and security for accessing academic resources. He managed to bring GakuNin activities internationally in the development of world trust governance and made GakuNin member of eduGAIN Inter-federation. He also promotes development of identity federation in the region and helps with the development of SIFULAN Malaysian Access Federation which became 57th member of eduGAIN in 2017. He went on to develop WEKO Japan Institutional Repository System and actively involved in the Confederation of Open Access Repository, started Asia Open Access (AsiaOA). In 2018, the Ministry of Education, Culture, Sports, Science and Technology awarded him with the grant on the Development for Repository Infrastructure for Promoting Open Science for Japan. His tasks include improving the scholarly output management system and research data management.

THE PANELLIST

Andrew Howard
Cloud Team Manager
National Computational Infrastructure (NCI), Australia

Andrew has many decades of hands-on technical, diplomatic and logistics experience covering a wide range of standard and bespoke technologies, languages and applications within Industry, Government and Academia nationally and internationally. A fascination with computers and networking lead to Andrew pioneering implementations of networks starting with installing the first Ethernet in Australia at Digital Equipment Corp in the early '80s to managing the development and operation of the Australian Government ICON fibre network. He worked closely with AARNet to implement the first 100G network connection on AARNet-X, linking NCI to the global research community. Since joining the Australian National University in 2006, he has managed the evaluation, development and implementation of high-speed communications systems, fibre networks and collaboration facilities. His current role at the National Computational Infrastructure (NCI) involves working on High-Performance Networks, Computing and Cloud systems.

Professor Dr Abrizah Abdullah
Faculty of Computer Science & Information Technology, University of Malaya

Abrizah graduated with a bachelor's degree in Environmental Engineering from Temple University Philadelphia and obtained her Master's and PhD degree both in Library & Information Science from UM. Her research interests focus on digital libraries, information behaviour, scholarly communication and bibliometrics. She is currently affiliated to CIBER Research Ltd UK as a Senior Academic Associate and involved in The Harbingers Project.
Her prior research group's works on digital libraries, bibliometrics and scholarly communication led to the development of a Malaysian journal hosting platform, MyJurnal, and a national citation indexing system, MyCite, in 2011. Professor Abrizah is the Chief Editor of the Malaysian Journal of Library & Information Science, which is indexed in both Social Science Citation Index and Scopus. She is an active author and reviewer of impact-factored journals in the area of Library & Information Science.

THE PANELLIST

Mallek Aminullah
Innovation Futurist
Alpha Catalyst Consulting

An Innovation Futurist, Mallek is passionate about transforming organisational innovation culture, into one fit for the future. He focuses on delivering value for organisations through collaborative open innovation, both at enterprise and ecosystem level. Coupled with his deep knowledge of emerging technologies and trends, he drives digital transformation through democratising knowledge and bridging the gaps between different stakeholders. Mallek has been involved in a number of transformational projects at organisational and national level and is passionate about further exploring value that open innovation can bring by providing accessibility to knowledge, talent and digital solutions within the ecosystem. Mallek has been involved in devising a strategy and digital platform for open innovation, assessing public-private collaborations between IHLs and SMEs to drive productivity. He is currently working on models on how to enhance the entrepreneurship ecosystem to drive graduate employability.

MINISTRY OF ENERGY, SCIENCE, TECHNOLOGY, ENVIRONMENT AND CLIMATE CHANGE (MESTECC)

Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC) was formed in May 2018 following the restructuring of the ministries after the 14th General Election. MESTECC is a combination of the overall component in Ministry of Science, Technology and Innovation (MOSTI), the energy and green technology component from Ministry of Energy, Green Technology and Water (KeTTHA) and climate and environmental change component from the Ministry of Natural Resources and Environment (NRE). The combination of different components makes MESTECC as a ministry with a wide range of functions and scope with three major sectors of the country namely the Energy Sector, Science, Technology and Innovation and Environment and Climate Change sectors.

Through this merger, a great synergism is formed based on mutual dependence and the need to support one another in order to achieve national development and thus contribute to the improvement of the economy and the well-being of the people in line with the aspiration of 'Common Prosperity'.

ACADEMY OF SCIENCES MALAYSIA

The Academy of Sciences Malaysia (ASM) came into force on 1 February 1995 and was established under the Academy of Sciences Malaysia Act 1994. ASM strives to be the Thought Leader for the nation on matters related to science, engineering, technology and innovation.

ASM promotes and fosters the development of science, engineering, technology and innovation and provides a forum for the interchange of ideas among scientists, engineers and technologists.

ASM also represents the Malaysian scientific community for knowledge sharing, expertise development as well as strengthening Malaysia's STI capacity globally.

GET IN TOUCH

MINISTRY OF ENERGY, SCIENCE, TECHNOLOGY, ENVIRONMENT AND CLIMATE CHANGE (MESTECC)

Puan Najua Yahaya
Bahagian Data Strategik dan Teknologi Foresight
najua@mestecc.gov.my

ACADEMY OF SCIENCES MALAYSIA

MALAYSIAN COLLABORATIVE NETWORK PLATFORM FOR DISRUPTIVE INNOVATION (I-CONNECT) INITIATIVE

Cik Norazwa Musiran
STI Strategic Initiatives & Partnership Unit
iconnect@akademisains.gov.my

MALAYSIA OPEN SCIENCE PLATFORM (MOSP) INITIATIVE

Puan Zuriany Zaki
STI Strategic Studies Unit
mosp@akademisains.gov.my