

KERATAN AKHBAR-AKHBAR TEMPATAN
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Malaysia unveils IoT roadmap, expects US\$11b income boost



IoT and GNI boost (from left): Ministry of Science, Technology and Innovation Deputy Sec-Gen Dr Mohd Azhar Yahaya; Minister of Science, Technology and Innovation Dr Ewon Ebin; and Mimos CEO Abdul Wahab Abdullah. — DNA pic

KUALA LUMPUR, July 9 — Malaysia has rolled out its National IoT Strategic Roadmap, with the expectation that the implementation of the Internet of Things (IoT) would contribute RM9.5 billion to the country's gross national income (GNI) by 2020, and RM42.5 billion by 2025.

IoT implementation is also expected to generate a total of 14,270 high-skilled employment opportunities by 2020, **Minister of Science, Technology and Innovation Dr Ewon Ebin** said at the launch in Cyberjaya earlier today (July 9).

"The ever-increasing need, demand and supply for Internet-related products and services is a telling sign that Malaysia is ready for the IoT," he said.

"IoT implementation will boost the country's innovation competitiveness. In 2012, Malaysian researchers and inventors filed a total of 146 IoT-related patents that can be licensed to investors to enhance their apps and services," he added.

The National IoT Strategic Roadmap will serve a guiding document aimed at moving Malaysia into becoming a premier regional IoT hub.

It comes slightly over a year after national research and development centre Mimos Bhd held an **IoT technical working group workshop**, which it said then was aimed at kicking off the development of a national blueprint.

Mimos has also been appointed implementation secretariat of the National IoT Strategic Roadmap.

"A key goal of the roadmap was also to create an ecosystem conducive to the IoT industry, while strengthening the capabilities of technology entrepreneurs in the many component layers of IoT," said Mimos chief executive officer Abdul Wahab Abdullah.

"The IoT ecosystem that we have been building is already up and running. As a premier applied research centre, Mimos comes in as a key technology provider, in particular for the development of the IoT Open Innovation Framework.

"[Furthermore], as the implementation secretariat, we will monitor the results, outcome and impact of all IoT deployments," he added.

Research firm Gartner defines the IoT as a network of physical objects that contain embedded technology that can communicate and sense, or interact, with their internal states or the external environment.

It potentially encompasses all Internet-connected devices including wearable technologies, as well as machine-to-machine or M2M communications.

Is Malaysia ready?

"The roadmap will be an invaluable reference to determine our strategic direction as we brace for the exciting new challenges of the IoT," said Ewon.

"The document will also be a vital tool in upgrading the capabilities of our technopreneurs.

"We also readily acknowledge that the IoT is a rapidly growing technology, and this roadmap is a living document that must be updated and refined, perhaps every two years," he added.

In his opening speech, Ewon said that developed nations have already begun implementing IoT, and that China had started its own initiative as far back as 2005, while Mimos began exploring the space in 2009.

"As a major tipping point in the Internet evolution, the IoT is an important element in the economic and social development of the country.

"Hence, Malaysia must grab this opportunity and we must do it with a strategy that is thoughtfully and wisely planned, so that its implementation will bring value that can be enjoyed by all," he added.

Cyberjaya as testbed

The launch also saw the signing of three memoranda of understanding (MoUs) involving Mimos, Cyberview Sdn Bhd, CyberSecurity Malaysia and SAS Institute, which will see them collaborating to develop Cyberjaya into a model 'Smart and Safe City' through IoT.

With the MoUs under its belt, Cyberview, the master developer of Cyberjaya, will implement a smart traffic management system, public safety monitoring, energy management, and various other IoT-based solutions.

READ ALSO: *The emergence of smart cities*

"With the launch of the roadmap and the signing of MoU, Cyberjaya will become a 'living lab' for IoT implementations," said Cyberview managing director Faris Yahaya.

"With the robust and resilient infrastructure set-up in Cyberjaya, the tech city forms the best platform to nurture and grow IoT talent and business, as well as to groom IoT services or solutions in Malaysia," he declared. — Digital News Asia



Pelan Strategik IoT Kebangsaan Bakal Jana RM9.5 Bilion Menjelang 2020

PUTRAJAYA, 9 Julai (Bernama) -- Pelan Hala Tuju Strategik Internet of Things (IoT) Kebangsaan diunjur menjana sejumlah RM9.5 bilion kepada Pendapatan Negara Kasar (PNK) menjelang 2020 selain menyediakan 14,270 peluang pekerjaan berkemahiran tinggi.

IoT merujuk hasil daripada pemusatan pelbagai teknologi daripada komunikasi tanpa wayar kepada internet.

Berucap pada majlis pelancaran inisiatif IoT itu hari ini, [Menteri Sains, Teknologi dan Inovasi, Datuk Dr Ewon Ebin](#) berkata, pelaksanaan IoT itu juga menyumbang RM42.5 bilion kepada PNK negara menjelang 2025.

Sebagai evolusi terbaharu dalam teknologi, IoT juga, katanya, turut menjadi faktor penentu bagi pembangunan ekonomi dan sosial negara.

Ia juga selaras kedudukan Malaysia yang memiliki kumpulan bakat berpotensi tinggi dan kreatif, persekitaran pelaburan yang baik selain minat serta komitmen yang kukuh.

"Ini semua adalah ramuan yang boleh melonjakkan negara menjadi hab IoT utama serantau sepertimana disasarkan dalam Pelan Hala Tuju Strategik IoT.

"Kemampuan kita melaksanakan IoT secara strategiknya akan menempatkan Malaysia di tahap baharu yang akan mentransformasi pentadbiran kerajaan, landskap perniagaan, alam sekitar dan hampir setiap sudut kehidupan seharian kita.

"Ia juga akan memacu pertumbuhan sosioekonomi negara bagi mencapai status negara maju menjelang 2020," katanya pada majlis itu di sini.

Ewon turut menyaksikan pertukaran memorandum persefahaman antara MIMOS dan Cyberview Sdn Bhd, CyberSecurity Malaysia dan SAS Inc bagi pembangunan Cyberjaya sebagai model 'Bandaraya Pintar dan Selamat' menerusi pelaksanaan IoT berkenaan.

Mengulas lanjut, Ewon turut menyifatkan dokumen itu sebagai garis panduan pelaksanaan IoT di Malaysia selain turut memacu daya saing inovasi negara ini.

"Pada 2012 misalnya, penyelidik dan pereka cipta Malaysia telah memfailkan 146 paten berkaitan IoT yang boleh dilesenkan kepada pelabur bagi meningkatkan aplikasi dan perkhidmatan mereka," katanya.

Beliau turut menggesa komitmen sektor swasta dan awam serta kalangan masyarakat penyelidik dalam usaha itu.

"Pelan Hala Tuju Strategik IoT Kebangsaan adalah perkongsian bersama, aspirasi dan wawasan yang akan kita usahakan bersama.

"Ia akan menjadi rujukan penting bagi menentukan hala tuju strategik serta cabaran baharu bagi IoT serta antara teras bagi mempertingkatkan keupayaan kalangan usahawan tekno kita," katanya.

Bagi memastikan keberkesanannya, Ewon berkata, dokumen berkenaan akan dikemas kini serta dipertingkatkan, berkemungkinan setiap dua tahun.

Sementara itu, Ketua Pegawai Eksekutif (CEO) MIMOS, Datuk Wahab Abdullah, menyifatkan sasaran utama pelan itu adalah mewujudkan ekosistem serba kondusif bagi industri IoT.

"Ia akan turut mengukuhkan kemampuan usahawan teknokrat dalam banyak komponen lapisan IoT.

"Ekosistem IoT yang kita usahakan ini telah siap dan beroperasi. MIMOS berperanan sebagai penyedia utama teknologi khususnya bagi pembangunan Kerangka Inovasi Terbuka IoT dan sebagai sekretariat pelaksana, kita akan memantau keputusan, hasil serta impak pelaksanaan kesemua IoT," katanya.

Pengarah Urusan Cyberview Sdn Bhd, Faris Yahaya berkata Cyberjaya akan menjadi 'makmal hidup' bagi pelaksanaan IoT berkenaan.

"Bersandarkan infrastruktur cemerlang, berdaya tahan yang diwujudkan di Cyberjaya, bandar teknologi ini adalah platform terbaik untuk menyemai dan mengembangkan modal insan dan perniagaan serta pembentukan perkhidmatan IoT atau penyelesaiannya di Malaysia," katanya.

-- BERNAMA

IoT to boost country's socio – economic growth

CYBERJAYA: Touted as the next wave of Internet evolution, the "Internet of Things" (IoT) will boost Malaysia's socio-economic growth as it heads towards high-income nation status by 2020, a Cabinet minister said.

Science, Technology and Innovation minister Datuk Dr Ewon Ebin said the implementation of IoT is expected to contribute RM9.5bil to Malaysia's Gross National Income (GNI) in 2020, and RM42.5bil by 2025.

"The Government's move in embracing IoT is in line with its aspiration to put people's well-being first and prioritising performance

towards positioning Malaysia as a developed nation.

"IoT will transform government administration, the business landscape, the environment and every little aspect of our daily life," said Dr Ewon, at the launch of the National IoT Strategic Roadmap here yesterday.

The IoT, in definition, is a situation where "things" are embedded with electronics, software or sensors, which enables it to transfer data over a network remotely.

For example, the "thing" could be a heart-monitoring implant or a car with a

built-in sensor that alerts the driver of low tyre pressure.

Besides contributing to the GNI, Dr Ewon said the implementation of IoT will also generate a total of 14,270 high-skilled employment opportunities by 2020.

The roadmap, said the minister, is a guiding document on Malaysia's strategic direction on IoT and also envisions the country to be "a premier regional IoT hub".

"IoT will emerge as a new global phenomenon that will transform the lives of mankind to an entirely new level. This means the

development and implementation of IoT require a clear guideline on data security, sovereignty, privacy and Intellectual Property management," he said.

The event also saw Cyberjaya selected as a testbed or "living lab" for the implementation of IoT, where it will be developed as a "Smart and Safe City".

As a start, Cyberview Sdn Bhd, the developer for Cyberjaya, will implement various IoT-based solutions such as smart traffic management system, public safety monitoring and energy management, among others.

Internet of Things to generate RM9.5b by 2020

By Hakim Hassan
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CYBERJAYA — The Ministry of Science, Technology and Innovation (MOSTI) yesterday announced the National Internet of Things (IoT) Strategic Roadmap as a guideline to implement of IoT that is expected to bring RM9.5 billion to the country's Gross National Income (GNI) by 2020.

MOSTI minister Datuk Dr Ewon Ebin said the initiative is part of the government's plan to focus on information communication technology (ICT), which is vital the nation's economic progress.

"IoT implementation in Malaysia is expected to contribute RM9.5 billion to the country's Gross National Income by 2020 and RM42.5 billion by 2025.

"It is also projected that the project would generate a total of 14,270 high-skilled employment opportunities by 2020," he said.

The minister was speaking at the National Internet of Things Strategic Roadmap and an MoU signing between the ministry, MI-MOS, Cyberview Sdn Bhd, Cyber-Security Malaysia and SAS Institute Sdn Bhd.

He added that the implementation will not only transform many demographics within the country while also boost social-economic growth.

"Our capabilities in implementing IoT strategically will position the country at a new level that will transform government administration, the business landscape, the environment and every little aspect of our daily lives.

"In time, this will boost the country's social-economic growth, towards achieving a high income nation status by 2020," he said.

Cyberview Sdn Bhd managing director Faris Yahaya said with the signing of the MoU, Cyberjaya will be the model city to implement the IoT strategy.

"With the robust and resilient infrastructure set-up in Cyberjaya, the tech city forms the best platform to nurture and grow IoT talent and business, as well as groom IoT services or solutions in Malaysia," he said.

IoT is a concept where the physical world is connected through an integrated Internet infrastructure.

Data is captured and transformed into valuable insights, which can be utilised in various application domains, ranging from automated home appliances to smart grids, smart homes and smart manufacturing.

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Putrajaya

Potensi bisnes bioproduk

■ Pasaran barangan kesejahteraan diri kini cecah RM12.96 trilion

Persidangan dan Pameran BioMalaysia & ASEAN Bioekonomi 2015 yang akan berlangsung pada 17 hingga 19 Ogos ini memperkenalkan aspek perniagaan kepada pengguna dengan memberi tumpuan kepada penjagaan kesihatan dan bioproduk kesihatan diri, sekali gus memberi impak kepada ekonomi negara dan rantau ASEAN.

Menteri Sains, Teknologi dan Inovasi Datuk Dr Ewon Ebin berkata, pasaran kesejahteraan diri kini mencecah sehingga RM12.96 trilion (AS\$3.4 trilion) dan ia jelas menunjukkan sektor berkenaan terus berkembang pesat.

"Menerusi sokongan daripada agensi seperti BiotechCorp, kementerian komited dalam menyediakan keperluan dan fasiliti yang dapat membantu menggerak-



FOTO: AHMAD RIFAN MOHD NOOR

DR Ewon (tengah) menunjukkan pelan pameran bersama Noorul Ainur dan Dr Mohd Nazlee selepas sidang media Persidangan dan Pameran BioMalaysia & ASEAN Bioekonomi 2015.

kan agenda bioekonomi Malaysia dalam memastikan negara berdaya saing, ino-

vatif dan makmur.

"Kita mahu Malaysia menjadi pintu masuk untuk bio-

ekonomi ASEAN dan mewujudkan lebih banyak sokongan, holistik dan perseki-

taran bersepadu bagi bioekonomi di rantau ini," katanya.

Hadir sama, Ketua Setiausaha Kementerian Sains, Teknologi dan Inovasi

Datuk Seri Noorul Ainur Mohd Nur

dan Ketua Pegawai Eksekutif Malaysi-

an Biotechnology Corporation

Datuk Dr Mohd Nazlee

Kamal.

Sementara itu, beliau berkata, persidangan

bertemakan 'ASEAN Bioeconomy: Biodiversity to Well-

ness' (Bioekonomi ASEAN: Biodiversiti Untuk Kesejahteraan Diri) diadakan di Pu-

sat Dagangan Dunia Putra (PWTC) dijangka menarik lebih 10,000 pelawat serta 250 peserta pameran termasuk sebuah pavilion antarabangsa daripada Majlis Kerjasama Teluk (GCC).

"Malaysia juga tidak terkecuali mempamerkan teknologi, inovasi dan produk terkininya daripada 250 syarikat bioteknologi," katanya.

Sebarang pertanyaan berhubung persidangan ini boleh menghubungi talian 03-58916679 atau e-mel ke biomalaysia@myevents.com.my.

Untuk maklumat lanjut boleh melayari laman web www.biomalaysia.com.my dan www.biotechcorp.com.my.

FAKTA
Beri impak kepada ekonomi negara, rantau ASEAN

4 Parlimen lokasi perintis Duta Sains

» Peruntukan
RM135,000 bagi
setiap kawasan
bantu penduduk
komersial produk

Oleh Nurul Fhatihah Zakinan
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► Ayer Keroh

Kementerian Sains, Teknologi dan Inovasi (MOSTI) memilih empat kawasan Parlimen sebagai lokasi projek perintis Duta Sains untuk membantu penduduk mengkomersial-

kan produk berteraskan sains.

Empat Parlimen terpilih bagi projek dua tahun bermula awal bulan depan dilaksanakan agensi di bawah MOSTI, Akademi Sains Malaysia (ASM) itu adalah Tangga Batu di Melaka, Setiu, Terengganu; Ranau, Sabah dan Jerlun mewakili Kedah dan Perlis.

Timbalan Menteri, Datuk Dr Abu Bakar Mohd Diah, berkata kementerannya memperuntukkan RM135,000 bagi setiap Duta Sains yang memiliki idea dalam menyelesaikan masalah dihadapi pengeluar produk, selain memberi latihan kepada mereka selama tempoh enam bulan.

"Mereka (Duta Sains) ini bertanggungjawab menyelesaikan masalah dihadapi masyarakat sama ada membantu mengkomer-



Abu Bakar bersama Mohd Azman (kiri) memakaikan baju Melayu serta sampin kepada anak yatim dari SK Paya Rumpit dan SK Klebang Besar di Pasar Raya Mydin, Ayer Keroh, semalam. [FOTO RASUL AZLI SAMAD/BH]

sialkan produk baharu, menghasilkan kajian saintifik, pembuktian, tanda niaga dan paten.

Keunikan kawasan

"Empat Parlimen yang dipilih untuk projek percubaan ini adalah kerana keunikan di kawasan berkenaan. Sebagai contoh di Jerlun, Duta Sains di kawasan itu boleh membantu menyelesaikan masalah petani kerana di situ adalah kawasan sawah padi, manakala

Tangga Batu membabitkan usahawan kecil dan Ranau pula akan menyelesaikan masalah bekalan air dan gempa bumi," katanya ketika ditemui di sini, semalam.

Terdahulu, Abu Bakar yang juga Ahli Parlimen Tangga Batu menyampaikan sumbangan baju raya sempena Aidilfitri kepada 80 anak yatim dari Sekolah Kebangsaan (SK) Paya Rumpit dan SK Klebang Besar di Pasar Raya Mydin, Pusat Dagangan Antara-

bangsa Melaka (MITC) di sini.

Yang turut hadir, Presiden dan Ketua Pegawai Eksekutif Technology Park Malaysia Corporation Sdn Bhd (TPM), Datuk Mohd Azman Shahidin.

Abu Bakar berkata, projek itu juga menuntut bantuan tenaga pakar dari pelbagai institusi, termasuk universiti, Pusat Giat MARA dan jabatan kerajaan bagi menyelesaikan masalah tertentu di kawasan masing-masing.



MOSTI Laksana Program Duta Sains Bermula Ogos Depan

MELAKA, 9 Julai (Bernama) -- Kementerian Sains, Teknologi dan Inovasi (Mosti) melalui Akademi Sains Malaysia akan melaksanakan Program Duta Sains bagi memperkasa komuniti setempat menerusi sains, teknologi dan inovasi pada awal bulan depan.

Timbalan Menterinya, Datuk Dr Abu Bakar Mohamad Diah berkata empat orang dalam kalangan masyarakat tempatan akan dilantik sebagai Duta Sains yang berperanan membantu menghasilkan produk baharu dalam bidang sains dan teknologi serta mengkomersialkannya.

Beliau berkata buat permulaan empat kawasan Parlimen iaitu Ranau di Sabah, Tangga Batu di Melaka, Setiu di Terengganu dan Jerlun di Kedah dipilih sebagai perintis bagi projek berkenaan dalam tempoh dua tahun, yang mana setiap satu Parlimen itu akan mempunyai seorang Duta Sains.

"Tiada kriteria atau had umur untuk menjadi Duta Sains ini tetapi mereka perlu mempunyai minat mendalam di bidang sains dan berupaya menjadi orang tengah dalam menyelesaikan sesuatu isu.

"Duta Sains yang dilantik ini akan sentiasa diberi panduan, latihan dan kursus secara berterusan daripada pihak Akademi Sains Malaysia bagi menjayakan setiap projek atau program yang mereka laksanakan," katanya kepada pemberita di sini hari ini.

Terdahulu, beliau menghadiri program penyampaian sumbangan Hari Raya daripada Technology Park Malaysia (TPM) di sini yang turut dihadiri Ketua Pegawai Eksekutif TPM Datuk Mohd Azman Shahidin.

Abu Bakar berkata seorang Duta Sains akan diberi peruntukan berjumlah RM135,000 dalam tempoh dua tahun untuk melaksanakan projek serta mengeluarkan produk berunsur sains, teknologi dan inovasi.

Beliau berkata program berkenaan juga bertujuan memberi publisiti dan pendedahan terhadap sains kepada masyarakat setempat terutama di luar bandar.

Sebelum itu, Abu Bakar bersama kakitangan TPM membantu 80 anak yatim dari Sekolah Kebangsaan Klebang Besar dan Sekolah Kebangsaan Paya Rumpit di sini memilih pakaian Hari Raya di pasar raya Mydin Ayer Keroh di sini.

Beliau berkata sumbangan pakaian Hari Raya berkenaan merupakan tanggungjawab sosial korporat TPM kepada golongan kurang bernasib baik.

-- BERNAMA



Heavy losses:
The Laban Rata hostel on Mt Kinabalu was badly damaged during the June 5 earthquake.

Officers assess damage to Mt Kinabalu trails following quake

KOTA KINABALU: A team of officers from several agencies visited Laban Rata, near the summit of Mount Kinabalu, for the first time in more than a month after the mountain was hit by a 5.9-magnitude earthquake.

The officers from Sabah Parks and the Fire and Rescue, Public Works and **Meteorological Services departments** spent a day to assess the earthquake damage on the mountain.

Among the sights that greeted the team was the badly damaged Panar Laban rest house, which was among the facilities near the summit hit by rock and boulder avalanches in the June 5 quake.

"We are carrying out an assessment of the,

restoration work on the mountain trails and other facilities. It was quiet and there were no signs of fresh avalanches around Laban Rata," said Ranau Fire and Rescue Department chief Jimmy Lagung.

State Tourism, Culture and Environment Minister Datuk Masidi Manjun had said that the authorities were hoping to reopen Mount Kinabalu to climbers by September.

He said the restoration work on the climbing trails near the summit was being carried out with the aid of mountaineering experts.

Four mountain guides were among 18 people who were killed in avalanches during the earthquake.