

KEMENTERIAN TENAGA, SAINS, TEKNOLOGI, ALAM SEKITAR DAN PERUBAHAN IKLIM

Bil	Berita	Media	Capaian Berita Penuh
1.	<u>Yeo Bee Yin among top 10 people who mattered this year, scientific journal says</u> KUALA LUMPUR, Dec 19 — Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin has been named among the 10 people who mattered most this year by renowned scientific journal, <i>Nature</i>. The journal honoured Yeo due to her efforts in reforming the country's governance over its environment and natural resources.	Malay Mail	Klik pada tajuk berita
2.	<u>Nature selects persons of year, applauding efforts in science</u> LONDON, Dec. (Xinhua) -- Nature on Tuesday announced its ten persons of the year that stood at the center of the biggest stories in science, from discoveries about superconductivity to a highly criticized effort to edit human genes. Bee Yin Yeo, Malaysia's Minister of Energy, Science, Technology, Environment and Climate Change is featured for leading environmental efforts to reduce single-use plastics.	Xinxua.net	Klik pada tajuk berita
3.	<u>Air Selangor's Laboratories Receives Awards for Lab Quality Excellence</u> PETALING JAYA: Air Selangor has three accredited laboratories that carry out water quality testing and these laboratories have gained recognition for their quality excellence and one such recognition was bestowed at the recently held 2018 Chemistry Night. The Chemistry Night is organised by Institute Kimia Malaysia (IKM) to recognise excellence in chemistry and its development in the country.	The Star	Rujuk Lampiran 1

4.	<u>Sampel SOFPADS diuji di angkasa lepas</u> Alat pengesan sinaran menggunakan fiber optik pintar (SOTPADS) yang Berjaya dihasilkan oleh sekumpulan saintis Universiti Putra Malaysia (UPM) akan menjalani ujian di Stesen Angkasa Antarabangsa (ISS) tidak lama lagi Usaha berkenaan adalah kerjasama penyelidikan yang dijalankan di bawah Memorandum Perjanjian (MoA) antara Universiti Putra Malaysia dengan Agensi Penerokaan Angkasa Jepun (JAXA) dan diselaraskan oleh Agensi Angkasa Negara (ANGKASA)	Berita Harian	Rujuk lampiran 2
5.	<u>TNB's 3rd USC coal-fired power plant achieves national grid connectivity</u> Unit 1 of Jimah East Power Sdn Bhd's coal-fired power plant in Port Dickson, Negri Sembilan, has successfully achieved the first synchronisation on Dec 10. The 70%-owned subsidiary of Tenaga Nasional Bhd (TNB) saw the first synchronisation of Unit 1's generator to the national grid Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin is pushing to increase the contribution of renewable energy (excluding hydro) from the current 2% to 20% by 2025.	Malaysian Reserve	Klik pada tajuk berita
6.	<u>Arah Lynas bawa keluar sisa radio aktif keputusan terbaik</u> PUTRAJAYA - Timbalan Menteri di Jabatan Perdana Menteri Fuziah Salleh menyambut baik keputusan kerajaan yang mahu Lynas Corporation Ltd (Lynas) mengeluarkan sisa radioaktif yang diproses di kilang milik syarikat itu dari Kuantan. Ahli Parlimen Kuantan itu berkata beliau dimaklumkan keputusan tersebut dicapai dalam mesyuarat Kabinet hari ini susulan cadangan daripada Kementerian Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar.	Sinar Harian	Klik pada tajuk berita

7.	<u>Fuziah lauds gov't decision in ordering Lynas to remove radioactive waste</u> PUTRAJAYA: Deputy Minister in the Prime Minister's Department Fuziah Salleh welcomed the government's decision ordering Lynas Corporation Ltd (Lynas) to remove the radioactive waste processed at the company's factory from Kuantan. The Kuantan member of Parliament said she was informed of the decision reached at a Cabinet meeting today following suggestions from the Ministry of Energy, Science, Technology, Environment and Climate Change	The Straits Times	Klik pada tajuk berita
8.	<u>Three ministries yet to set up childcare centre - Hannah Yeoh</u> KUALA LUMPUR: Three ministries, namely the Water, Land and Natural Resources Ministry; Energy, Science, Technology, Environment and Climate Change Ministry and the Economic Affairs Ministry, have yet to set up childcare centres at their respective premises, the Dewan Negara was told today.	New Straits Times	Klik pada tajuk berita dan rujuk Lampiran 3
9.	<u>Three ministries yet to set up childcare centres</u> KUALA LUMPUR: Three ministries, namely the Water, Land and Natural Resources Ministry; Energy, Science, Technology, Environment and Climate Change Ministry and the Economic Affairs Ministry, have yet to set up childcare centres at their respective premises, the Dewan Negara was told yesterday.	The Borneo Post	Klik pada tajuk berita
10.	<u>Tiga kementerian belum ada taska</u> KUALA LUMPUR - Tiga kementerian masih belum mewujudkan Taman Asuhan Kanak-Kanak (Taska) di premis masing-masing, persidangan Dewan Negara diberitahu hari ini. Timbalan Menteri Pembangunan Wanita, Keluarga dan Masyarakat, Hannah Yeoh berkata tiga kementerian tersebut adalah Kementerian Air, Tanah dan Sumber Asli;	Sinar Harian	Klik pada tajuk berita

	Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim serta Kementerian Hal Ehwal Ekonomi.		
11.	<u>3 Kementerian belum ada taska sendiri</u> Kementerian Pembangunan Wanita, Keluarga dan Masyarakat mengenalpasti tiga kementerian masih belum mewujudkan Taman Asuhan Kanak-kanak (Taska) mereka sendiri. Kementerian tersebut adalah Kementerian Air, Tanah dan Sumber Asli, Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim serta Kementerian Hal Ehwal Ekonomi	KOSMO	Rujuk lampiran 4
12..	<u>Buku panduan TCIMS dilancar</u> Tenaga Nasional Berhad (TNB) memperkenalkan buku panduan Sistem Pengurusan Korporat TNB (TCIMS) dalam usaha memantapkan lagi tahap integriti serta tadbir urus dalam kalangan warga kerja dan semua pihak yang berurusan dengan syarikat tersebut. Timbalan Menteri MESTECC, Isnaraissah Munirah Majilis menyifatkan TCIMS sebagai satu wadah yang boleh menyumbang ke arah matlamat Malaysia yang lebih berintegriti	Utusan Malaysia	Rujuk lampiran 5

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
13.	<u>TNB akan kaji mekanisme terbaik</u> KUALA LUMPUR 19 Dis. - Syarikat utiliti kebangsaan, Tenaga Nasional Berhad (TNB) akan mengkaji mekanisme terbaik sama ada untuk meneruskan projek jalur lebar mereka. Ketua Pegawai Eksekutif TNB, Datuk Seri Ir. Azman Mohd berkata, pihaknya masih belum mempunyai keputusan muktamad berhubung perkara itu.	Utusan Malaysia	Klik pada tajuk berita
14.	<u>TNB akan umum butiran projek jalur lebar pada Januari 2019</u> KUALA LUMPUR: Tenaga Nasional Bhd (TNB) akan mengumumkan butiran mengenai rancangannya untuk memasuki pasaran perkhidmatan jalur lebar pada Januari. Presiden dan Ketua Pegawai Eksekutif, Datuk Seri Ir Azman Mohd, berkata TNB sedang dalam proses menmbentangkakan rancangannya kepada kementerian yang berkaitan.	Berita Harian	Klik pada tajuk berita
15.	<u>TNB bakal teroka projek jalur lebar</u> Kuala Lumpur - Tenaga Nasional Bhd (TNB) bakal mengumumkan butiran mengenai rancangannya untuk memasuki pasaran perkhidmatan jalur lebar pada bulan depan. Presiden dan Ketua Pegawai Eksekutif, Datuk Seri Ir Azman Mohd, berkata TNB sedang dalam proses menmbentangkakan rancangannya kepada kementerian yang berkaitan	KOSMO	Rujuk lampiran 6

16.	<u>TNB to announce broadband project details in January 2019</u> KUALA LUMPUR, Dec 19 (Bernama) -- Tenaga Nasional Bhd (TNB) will announce the details of its plan to enter the broadband services market in January. President and Chief Executive Officer Datuk Seri Ir Azman Mohd said TNB was in the process of communicating its plan to the relevant ministries.	BERNAMA	Klik pada tajuk berita
17.	<u>Internet of Things for SMEs – friend or foe?</u> Perhaps the biggest barrier to perpetuate the use of technology within our economy is anxiety towards the technology itself.	New Straits Times	Rujuk lampiran 7
18.	<u>PMJ-KKBPJ jalin kerjasama untuk pertandingan robotik</u> Mersing – Politeknik Mersing Johor (PMJ) bersedia menjadi pusat latihan teknikal zon selatan bagi persediaan ke pertandingan robotik peringkat kebangsaan tahun hadapan	Berita Harian	Rujuk lampiran 8
19.	<u>Inovasi biomas juara IIC Zon Selatan</u> Ayer Keroh – Inovasi pembakaran sumber biomas bagi menjana tenaga elektrik membolehkan Universiti Teknikal Melaka (UTeM) muncul juara dalam Cabaran Inovasi Inklusif (IIC) 2018 Zon Selatan, baru-baru ini.	Berita Harian	Rujuk lampiran 9
20.	<u>Taman Permainan barang kitar semula</u> Kalumpang – Kawasan Rukun Tetangga (KRT) Taman Rajawali Kalumpang membina sebuah taman permainan berasaskan barang kitar semula	Sinar Harian	Rujuk lampiran 10

ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
21.	<u>Top Trends To Watch In Renewable Energy In 2019</u> This year has seen several major policy changes in renewable energy, especially in solar. China <u>surprised everyone</u> in June by announcing that it would not issue approvals for any new solar power installations in 2018 and would also cut the feed-in tariff subsidy. In February, the U.S. imposed tariffs on imported solar cells and modules, creating uncertainty in the U.S. solar market.	Oilprice.com	Klik pada tajuk berita
22.	<u>Exclusive: U.S. to offer 'black box' nuclear waste tech to other nations</u> WASHINGTON (Reuters) - The U.S. Department of Energy's nuclear security office is developing a project to help other countries handle nuclear waste, an effort to keep the United States competitive against global rivals in disposal technology, according to two sources familiar with the matter.	Reuters	Klik pada tajuk berita
23.	<u>Tilting at windmills: Spain strains to meet record renewables goal</u> MADRID (Reuters) - Wind turbine maker Siemens Gamesa is booking 14 colossal specialized cranes, has hired new staff and boosted capacity by up to 80 percent at its Spanish factories as developers strain to meet a 2020 deadline for cutting carbon emissions.	Reuters	Klik pada tajuk berita
24.	<u>Washington, D.C., sets 100% renewable energy target by 2032</u> The D.C. City Council unanimously voted in favor of the Clean Energy DC Omnibus Amendment Act of 2018, securing a historic win	Reuters	Klik pada tajuk berita

	for renewable energy and making the District a model for the rest of the country. The bill establishes a 100% renewable energy target by 2032 with a 10% solar energy carve-out by 2041. MDV-SEIA commends the D.C. Council, especially Councilmember Mary Cheh, Ward 3 for bringing forth the legislation, and Councilmember Kenyan McDuffie, Ward 5 for his leadership in passing the bill.		
25.	<u>Musk unveils tunnel to bear traffic jams</u> Elon musk on Tuesday took a break from futuristic electric cars and private space travel to unveil a low cost tunnel he sees as a godsend for city traffic.	New Straits Times	Rujuk lampiran 11
26.	<u>Robot mula ambil alih kawalan keselamatan di bandar utama AS</u> Los Angeles, California – Sebuah pusat membeli belah di sini memperkenalkan robot pengawal keselamatan untuk meronda dan mengenal pasti penyeluk saku di premis itu	KOSMO	Rujuk lampiran 12
27.	<u>Zuhal bakal kehilangan lingkaran keliling planet</u> GREENBELT, Maryland – Satu kajian Pentadbiran Angkasa dan Aeronautik Negara (NASA) mendapati lingkaran planet Zuhal bakal hilang sepenuhnya dalam masa 100 juta tahun	KOSMO	Rujuk lampiran 13

LAMPIRAN 1
THE STAR (STARMETRO): MUKA SURAT 5
TARIKH: 20 DISEMBER 2018 (KHAMIS)

AIR SELANGOR'S LABORATORIES RECEIVE AWARDS FOR LAB QUALITY EXCELLENCE

Sg Semenyih's lab is the first water treatment plant laboratory in the country to receive IKM Laboratory Excellence Silver Award

PETALING JAYA: Assuring that its treated water meets quality compliance set out in the National Drinking Water Quality Standards issued by Ministry of Health Malaysia is key for Air Selangor in providing clean and safe water to its customers. Air Selangor has three accredited laboratories that carry out water quality testing and these laboratories have gained recognition for their quality excellence and one such recognition was bestowed at the recently held 2018 Chemistry Night.

The Chemistry Night is organised by Institute Kimia Malaysia (IKM) or the Malaysian Chemistry Institute, to recognise excellence in chemistry and its development in the country. The 2018 Chemistry Night was officiated by Deputy Minister of Energy, Technology, Science, Environment and Climate Change, Isnaraissah Munirah Majlis.

The Sg. Semenyih Water Treatment Plant (WTP) Laboratory has bagged the prestigious Silver award after successfully maintaining the IKM Laboratory Excellence Award for 10 consecutive years. This recognition certifies Sg. Semenyih WTP Laboratory as the first WTP lab in the country to receive this award.

Sg. Labu and Sg. Selangor Phase 2 WTP laboratories have also been receiving this award since 2016 and 2011 respectively. The award recognises the WTP's laboratories for its maintenance accreditation and continuous



Recognition: Isnaraissah presents the Laboratory Excellence Award to Air Selangor Director & Head of Operations, Ir Abas Abdullah.

effort for improving safety in the laboratory.

The IKM Laboratory Excellence Award Committee carries out stringent assessments of the laboratories before naming the recipients for this prestigious award. Participating laboratories are also required to operate a quality system according to the requirements as stipulated in MS ISO/IEC 17025:2005. All three Air Selangor laboratories - Sg. Semenyih WTP laboratory, Sg. Selangor Phase 2 WTP laboratory and Sg. Labu WTP laboratory - are accredited under the Malaysia Laboratory

Accreditation Scheme for MS ISO/IEC 17025 by Department of Standards Malaysia (Standards Malaysia) since 2004, 2006 and 2012 respectively. The laboratories are accredited with various parameters from analytical field/groups such as microbiological, inorganic, organic, heavy metals, and physical parameters.

By complying with the ISO/IEC 17025 laboratory management system, the laboratories are also well maintained with good management and technical structures for water quality

analysis in both laboratory and in-situ test sampling and effective quality assurance control programme to ensure validity of test results.

The competencies of the laboratory teams are continuously improved through training, cross-checking proficiency tests with Chemistry Department Malaysia and other accredited laboratories.

The award also requires laboratories to operate in a safe environment by focusing on safety and health. Laboratory teams are fully geared with Personal Protective Equipment

(PPE) as a hazard control measure. These laboratories also conduct annual chemical spillage drills and Chemical Health Risk Assessment every five years to evaluate health risks posed by chemicals.

This recognition is a feather in the cap for Air Selangor's laboratories which continually strive for excellence by not only maintaining the accreditation by Standards Malaysia but also by expanding its scope of analysis, complying with safety and health regulations, actively participating in seminars, conferences and chemistry related programmes.



Dedication pays off: The Air Selangor team which is committed to provide quality lab services in ensuring safe water supply to customers.



Quality assurance: Air Selangor's Water Treatment Plant Laboratories are accredited under the Accreditation Scheme Malaysia.

LAMPIRAN 2
BERITA HARIAN (VARSITI): MUKA SURAT V54
TARIKH: 20 DISEMBER 2018 (KHAMIS)

Sampel SOFPADS diuji di angkasa lepas

[FOTO YUSNI ARIFFIN/ BH]

➔ Perhati tidak balas fiber optik terhadap radiasi

Oleh Nas Norziela
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► Kuala Lumpur

Alat pengesan sinaran menggunakan fiber optik pintar (SOFPADS) yang berjaya dihasilkan oleh sekumpulan saintis Universiti Putra Malaysia (UPM) akan menjalani ujian di Stesen Angkasa Antarabangsa (ISS), tidak lama lagi.

Alat berkenaan menjadi langkah pertama untuk memerhati tindak balas fiber optik terhadap radiasi dalam persekitaran mikrograviti, berpotensi sebagai pengesan sinaran pasif di angkasa lepas dan boleh digunakan untuk memantau tahap radiasi yang diterima oleh angkasawan yang bekerja di ISS.

Projek yang mendapat tajaan UPM di bawah Geran Berimpak Tinggi itu dicipta sekumpulan penyelidik terdiri daripada Dr Noramaliza Mohd Noor dan Prof Madya Dr Fathinul Fikri Ahmad Saad dari Pusat Pengimejan Diagnostik Nuklear (PPDN) serta

Pensyarah Fakulti Sains, Dr Nizam Tamcheh.

Usaha berkenaan adalah kerjasama penyelidikan yang dijalankan di bawah Memorandum perjanjian (MoA) antara Universiti Putra Malaysia dengan Agensi Penerokaan Angkasa Jepun (JAXA) dan diselaraskan oleh Agensi Angkasa Negara (ANGKASA).

Noramaliza yang juga ketua kumpulan penyelidik SOFPADS berkata, ketika ini, sebanyak dua sampel SOFPADS dihasilkan yang dinamakan E-SOFPADS dan I-SOFPADS untuk menjalani ujian di ISS sudah dihantar JAXA, bulan lalu.

Dianalisis di UPM

Beliau berkata, sehubungan dengan itu, JAXA akan membawa sampel pengesan fiber optik pintar berkenaan ke Amerika Syarikat pada bulan ini sebelum dilancarkan ke ISS pada Februari depan.

"E-SOFPADS ini akan didedahkan kepada sinaran radiasi di luar ISS sekitar modul KIBO milik Jepun menggunakan fasiliti Experiment Handrail Attachment Mechanism (ExHAM) selama 300 hari, manakala



Prof Rozi (dua dari kanan) bersama Dr Noramaliza (dua dari kiri), Dr Fathinul Fikri (kiri) dan Dr Nizam (kanan) bergambar bersama selepas sidang media penyerahan sampel pengesan sinaran kepada JAXA di UPM, baru-baru ini



Setelah setahun, kedua-dua sampel pengesan akan dihantar semula ke bumi untuk dianalisis di PPDN dan Makmal Dosimetri, Fakulti Perubatan dan Sains Kesihatan di UPM"

Dr Noramaliza Mohd Noor,
Ketua Penyelidik UPM

I-SOFPADS akan didedahkan kepada sinaran radiasi yang berada di dalam modul KIBO, ISS selama 360 hari.

"Setelah setahun, kedua-dua sampel pengesan akan dihantar semula ke bumi untuk dianalisis di PPDN dan Makmal Dosimetri, Fakulti Perubatan dan Sains Kesihatan di UPM," katanya ketika ditemui, baru-baru ini.

Yang turut hadir, Pre-

siden Pengimejan Diagnostik Nuklear (PDN), Prof Datin Dr Rozi Mahmud dan wakil dari ANGKASA.

Sampel kajian yang bermula 2016 itu juga memabitkan penyelidikan bersama-sama pensyarah dari Fakulti Kejuruteraan UPM, Universiti Multimedia, Universiti Malaya (UM), Universiti Sunway dan ANGKASA.

LAMPIRAN 3
NEW STRAITS TIMES (NEWS): MUKA SURAT 13
TARIKH: 20 DISEMBER 2018 (KHAMIS)

'Three ministries yet to set up childcare centres'

THREE ministries, namely the Water, Land and Natural Resources Ministry; Energy, Science, Technology, Environment and Climate Change Ministry and the Economic Affairs Ministry, have yet to set up childcare centres at their premises, the Dewan Negara was told yesterday.

Women, Family and Community Development Deputy Minister Hannah Yeoh said under the 2019 Budget, the ministry was allocated RM10 million to set up 50 childcare centres at government buildings.

"With the allocation, there will be more childcare centres at workplaces. This will reduce parents' worry about their children's safety."

She said this in reply to a ques-

tion from Senator Muhamad Mustafa on efforts by the government in dealing with the dilemma faced by working mothers in sending their children to nurseries.



Hannah Yeoh

Yeoh said the ministry had implemented several measures and initiatives to encourage public and private employers to provide childcare centres at their workplaces.

She said the ministry encouraged the private sector to set up nurseries at workplace to provide opportunities for work-

ers in the B40 (Bottom 40 per cent income) group to send their children there.

The ministry, she said, was discussing with utility companies to reduce the tariff rates for childcare centres. **Bernama**

LAMPIRAN 4
KOSMO! (NEGARA): MUKA SURAT 6
TARIKH: 20 DISEMBER 2018 (KHAMIS)

3 kementerian belum ada taska sendiri

Oleh RASDAN AHMAD

KUALA LUMPUR - Kementerian Pembangunan Wanita, Keluarga dan Masyarakat mengenal pasti tiga kementerian masih belum mewujudkan Taman Asuhan Kanak-Kanak (Taska) mereka sendiri.

Timbalan Menteri, Hannah Yeoh berkata, kementerian tersebut adalah Kementerian Air, Tanah dan Sumber Asli; Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim serta Kementerian Hal Ehwal Ekonomi.

"Melalui Bajet 2019, kementerian diberi tanggungjawab menguruskan peruntukan sebanyak RM10 juta yang disediakan kepada 50 buah Taska di bangunan kerajaan bagi menggalakkan penubuhannya di tempat kerja sektor awam.

"Dengan peruntukan



HANNAH YEAH

ini, Taska di tempat kerja akan bertambah seterusnya meningkatkan kapasiti kanak-kanak di Taska di tempat kerja yang boleh mengurangkan kerisauan ibu bapa tentang keselamatan anak masing-masing," katanya ketika persidangan Dewan Negara semalam.

Beliau berkata demikian ketika menjawab pertanyaan Senator Muhammad Mustafa yang ingin tahu apakah usaha kerajaan, dalam menyelesaikan dilema ibu bekerja yang menghadapi masalah untuk menghantar anak ke pusat asuhan yang selamat.

Tambah beliau, kementerian telah melaksanakan beberapa langkah dan inisiatif bagi menggalakkan majikan menyediakan Taska di tempat kerja sektor awam dan swasta. Selain itu, katanya, ke-



GAMBAR fail menunjukkan seorang guru prasekolah melayani kanak-kanak yang ditempatkan di tadika yang disediakan oleh DBKL di Kompleks Komuniti Muhibbah, Kuala Lumpur.



Sidang
Dewan Negara

menterian turut menggalakkan sektor swasta mewujudkan Taska di tem-

pat kerja bagi memberi peluang kepada golongan isi rumah berpendapatan rendah (B40) yang bekerja berhampiran premis mereka untuk turut menghantar anak ke Taska tersebut.

LAMPIRAN 5
UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 8
TARIKH: 20 DISEMBER 2018 (KHAMIS)

Buku panduan TCIMS dilancar

KUALA LUMPUR 19 Dis. - Tenaga Nasional Bhd. (TNB) memperkenalkan buku panduan Sistem Pengurusan Integriti Korporat TNB (TCIMS) dalam usaha memantapkan lagi tahap integriti serta tadbir urus dalam kalangan warga kerja dan semua pihak yang berurusan dengan syarikat tersebut.

Buku panduan setebal 61 muka surat itu antara lain merangkumi lima polisi yang terdiri daripada *Anti Bribery Policy*, *Gifts, Hospitality and Related Benefits Policy*, *Conflicts of Interest Policy*, *Whistleblowing Policy* dan *Integrity Pact and Committee Integrity Pledges Policy*.

Timbalan Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Isnaraissah Munirah Majlis menyifatkan TCIMS sebagai satu wadah yang boleh menyumbang ke arah matlamat Malaysia yang lebih berintegriti.

Katanya, sebagai sebuah syarikat milik kerajaan (GLC) adalah amat wajar bagi TNB untuk bersama-sama kerajaan



ISNARAISAH MUNIRAH MAJILIS (dua dari kanan) dan Pengerusi TNB, Tan Sri Leo Moggie (dua dari kiri) melihat buku panduan TCIMS dalam Majlis Perasmian Hari Integriti TNB 2018 di Ibu Pejabat TNB, Kuala Lumpur semalam.

membudayakan integriti dalam kalangan warga kerjanya.

“Sebagaimana kita sedia maklum, kerajaan pada hari ini dan kementerian khususnya sangat mengalu-alukan inisiatif sebegini.

“Pembudayaan integriti ini

harus didukung secara kolektif dan bersungguh-sungguh agar matlamat menjadikan Malaysia negara maju bukan hanya dari segi ekonomi semata-mata bahkan dari segi sahsiah akan tercapai.

“Justeru, besarlah harapan

kerajaan untuk melihat TNB berjaya membudayakan integriti dalam kalangan warga kerjanya seterusnya menjadi GLC yang utuh serta dihormati,” katanya ketika berucap dalam Majlis Hari Integriti TNB 2018, di sini hari ini.

LAMPIRAN 6
KOSMO! (NIAGA): MUKA SURAT 45
TARIKH: 20 DISEMBER 2018 (KHAMIS)

Syarikat sedang bentangkan rancangannya kepada kementerian berkaitan

TNB bakal teroka projek jalur lebar

KUALA LUMPUR - Tenaga Nasional Bhd. (TNB) bakal mengumumkan butiran mengenai rancangannya untuk memasuki pasaran perkhidmatan jalur lebar pada bulan depan.

Presiden dan Ketua Pegawai Eksekutifnya, Datuk Seri Ir. Azman Mohd. berkata, syarikat kini dalam proses membentangkan rancangannya kepada kementerian yang berkaitan.

"Saya fikir anda akan mendengar lebih lanjut mengenai (butiran projek) ini pada bulan Januari," katanya.

Beliau berkata demikian kepada pemberita selepas pelancaran Hari Integriti TNB 2018

di sini semalam.

Turut hadir Pengerusi TNB, Tan Sri Leo Moggie.

TNB merancang untuk memasuki pasaran jalur lebar dengan menggunakan rangkaian fiber optik sedia ada di seluruh negara dan kini sedang menjalankan projek perintis di Melaka.

Azman menjelaskan, projek perintis tersebut akan siap pada akhir bulan Disember dan syarikat akan menilai keputusannya.

"Saya melihat projek berkenaan secara teknikal telah berjaya. Bagaimanapun, tidak akan ada lagi projek perintis," katanya.

Sementara itu, TNB juga

melancarkan buku panduan Sistem Pengurusan Integriti Korporat TNB (TCIMS) sebagai sebahagian daripada usaha untuk mengukuhkan integriti dalam kalangan pekerjaannya.

Buku panduan itu dilancarkan Timbalan Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Isnaraissah Munirah Majilis sempena Hari Integriti TNB.

"Kerajaan berbangga dengan inisiatif TNB dalam membangunkan TCIMS untuk meningkatkan integriti dan tadbir urus dalam kalangan pekerjaannya dan semua pihak yang terlibat dengannya," kata beliau.



AZMAN (kiri) bersama Leo Moggie (dua dari kiri) merasmikan Hari Integriti TNB di Kuala Lumpur semalam.

LAMPIRAN 7
NEW STRAITS TIMES (BUSINESS): MUKA SURAT 24
TARIKH: 20 DISEMBER 2018 (KHAMIS)

VIEW POINT

MADANI
SAHARI

NEW TECH

Internet of Things for SMEs — friend or foe?

On the contrary, the advent of the Internet of Things actually allows for a rethinking of business practices, leading to solutions to risk management woes that have previously plagued conventional businesses.

PERHAPS the biggest barrier to perpetuate the use of technology within our economy is anxiety towards the technology itself.

This fear of the unknown, usually in the form or risks associated with the investment, implementation and maintenance of expensive technology, may overwhelm the entrepreneur struggling with various operations within their companies.

Any investment, procurement or hiring is a risk in itself, including technology. However, it is also possible that throughout the years, we have desensitised ourselves to the common risks when investing in infrastructure, personnel, utilities and other overheads that are norms to the conventional way of doing business.

This may often lead to technology investments as a secondary “bonus” should the business do well, or only reserved for large-scale companies with sizeable technology investment budgets.

On the contrary, the advent of the Internet of Things (IoT) actually allows for a rethinking of business practices, leading to solutions to risk management woes that have previously plagued con-

ventional businesses.

While advanced technologies have been developed based on the IoT framework, such as manufacturing execution systems and intelligent transportation systems, the beauty of IoT is in its basic principle — any device that transmits data allows for access through any connection points through the cloud.

This unlocks a myriad of applications that are available for all types of businesses, including startups.

For example, cloud-based accounting and financial software are now affordable at rates previously inaccessible to small firms. These off-the-shelf applications are now capable of tracking and reconciling bank transactions, raising quotations and invoices and summarising them into balance sheets and profit and losses, thereby eliminating the huge costs of clerical errors, audit preparation and cashflow management all in one go.

Also, with a small investment, inventory management can now be automated through cloud-based systems that track the flow of equipment and stock with minimal manpower, eliminating waste and inventory loss.

For the startup, this means business owners can reduce administrative burdens and focus on what matters most — the innovation and value-added activities within the company operations.

As small and medium enterprises form the most sizeable portion of the local economy, it is important that the normalisation of technology utilisation is made a key focus, particularly within the startups.

While we all own a smartphone and computers, how many of us are maximising the connectivity and processing capabilities of these powerful tools? Are we well versed with the various applications that have the potential to solve real business problems and present opportunities to enhance competitiveness of our operations?

In the age of overwhelming technology options and a multitude of choices in investment paths each with its own risks, perhaps the smartest approach to creating such normalisation would be maximising technology that is readily available.

With the recent rebranding of the Malaysia Automotive Robotics and IoT Institute

(MARII), new intervention programmes are now under development to enhance the normalisation of IoT-based technology within all levels of businesses, from technology startups to service centres, be it big or small.

Most importantly, technology adeptness is not only for the business owner, but also for the society at large. The ability to fully utilise human advancement is not in the technology itself, but the mindset and readiness of the human to accept change.

While we work on high-technology penetration within the economy, MARII is committed to ensuring technology adeptness begins with the acceptance of technology at all levels.

Next year, the industry players and the public at large can expect new opportunities in enhancing their capabilities, understanding, knowledge and skills in new applications and technologies related to robotics and IoT.

American philosopher and educator John Dewey once said: “If we teach today as we taught yesterday, we rob our children of tomorrow.”

The writer is the chief executive officer of Malaysia Automotive Institute.

LAMPIRAN 8
BERITA HARIAN (VARSITI): MUKA SURAT V31
TARIKH: 20 DISEMBER 2018 (KHAMIS)

PMJ-KKBPJ jalin kerjasama untuk pertandingan robotik

Mersing: Politeknik Mersing Johor (PMJ) bersedia menjadi pusat latihan teknikal zon selatan bagi persediaan ke pertandingan robotik peringkat kebangsaan tahun hadapan.

Sehubungan itu, satu perbincangan antara PMJ dengan Kolej Komuniti Batu Pahat (KKBPJ) diadakan bagi memperhalusi kerjasama teknikal dan kepakaran membabitkan pelajar dan pensyarah.

Ketua Jabatan Kejuruteraan Elektrik (JKE) PMJ, Hamzah Zakaria, berkata usaha berkenaan secara tidak langsung dapat meningkatkan pendedahan pelajar dalam dunia robotik serta menguji kepakaran pensyarah selaras dengan hasrat Jabatan Pendidikan Politeknik dan Kolej Komu-

niti (JPPKK) untuk membangunkan kemahiran Pendidikan Teknikal dan Latihan Vokasional (TVET).

Beliau berkata, kelebihan dari segi logistik dan keperluan teknikal yang lengkap menjadikan JKE sebagai pusat latihan terbaik untuk melatih peserta membuat tugas dalam kategori yang dipertandingkan bersempena dengan pertandingan ROBOTIK 2019.

Tingkat saingan

"Ini juga sebagai persediaan awal menghadapi pertandingan ROBOCON Malaysia 2019 yang bakal berlangsung pada 25 hingga 28 April tahun depan anjuran Kementerian Pendidikan dengan



Perbincangan antara Hassan (tiga dari kiri), dengan Abd Rahim (tiga dari kanan).

kerjasama Universiti Islam Antarabangsa Malaysia (UIAM).

"Kita menyasarkan PMJ dan KKBPJ mampu memberikan saingan sengit kepada pasukan lain, termasuk

daripada universiti yang mempunyai latar belakang dalam bidang teknikal," katanya.

Perbincangan itu turut disertai Pengarah PMJ, Hassan Siraj dan Pengarah

KKBPJ, Abd Rahim Ma'sum.

Hamzah berkata, selain ke pertandingan Robotik 2019, latihan yang diberikan turut berguna untuk persiapan wakil kedua-dua kolej itu ke Pertandingan

Robot Tempur Malaysia Kelima pada Jun 2019 yang dilihat dapat mengetengahkan kemahiran, inovasi dan kreativiti dalam bidang penciptaan robot dalam kalangan generasi muda.

LAMPIRAN 9
BERITA HARIAN (VARSITI) MUKA SURAT V54
TARIKH: 20 DISEMBER 2018 (KHAMIS)

Inovasi biomas juara IIC Zon Selatan

Ayer Keroh: Inovasi pembakaran sumber biomas bagi menjana tenaga elektrik membolehkan Universiti Teknikal Malaysia Melaka (UTeM) muncul sebagai juara dalam Cabaran Inovasi Inklusif (IIC) 2018 Zon Selatan, baru-baru ini.

Produk ciptaan pelajar Fakulti Teknologi Kejuruteraan Elektrik dan Elektronik (FTKEE), UTeM, Nagen Krishnan dan Singh Dhillon Gurdar Singh itu boleh berfungsi untuk membantu masyarakat ketika berdepan kecemasan seperti banjir.

Nagen berkata, inovasi itu dihasilkan menggunakan sumber biomas sepenuhnya dan dibakar untuk menjana tenaga elektrik dengan menggunakan sistem pemantauan berasaskan *Internet of Thing* (IoT).

Kelainan produk

"Dengan dilengkapi sistem IoT, produk ini adalah selari dengan perkembangan momentum dan kecanggihan teknologi terkini ber-

aliran Revolusi Industri 4.0.

"Selain itu, penggunaan sumber biomas menjadikan produk ini berbeza dengan ciptaan lain yang menjana sumber tenaga menerusi sistem panel solar yang mana memabatkan kos tinggi dalam penghasilan dan penyelenggaraan," katanya.

Kemenangan itu melayakkan mereka membawa pulang wang tunai sebanyak RM5,000, trofi dan sijil penghargaan.

Sementara itu, Dekan FTKEE, Prof Madya Mohd Rahimi Yusoff, berkata penyertaan dua pelajarnya itu bukan sahaja dapat memberi mereka pendedahan baharu tetapi turut memperkenalkan fakulti dan UTeM ke peringkat kebangsaan dan antarabangsa.

"Saya berharap kemenangan ini dapat memberi inspirasi kepada pelajar lain untuk mengambil peluang bagi menyokong aspirasi kerajaan untuk memperkembangkan bidang penyelidikan dan inovasi negara," katanya.



CABARAN INOVASI INKLUSIF 2018

1000AM BERKAWAN TAVUT K BIRU



ik.mestec.my



Nagen Krishnan (dua dari kiri) bersama penyelia mereka, **Rahani Mohd Saad** ketika dinobatkan juara IIC 2018 Zon Selatan, baru-baru ini.

LAMPIRAN 10
SINAR HARIAN (HULU SELANGOR): MUKA SURAT 33
TARIKH: 20 DISEMBER 2018 (KHAMIS)



Tayar antara barang kitar semula yang dimanfaatkan untuk taman permainan itu.

Taman permainan barang kitar semula

KALUMPANG - Kawasan Rukun Tetangga (KRT) Taman Rajawali Kalumpang membina sebuah taman permainan berasaskan barang kitar semula.

Ahli Majlis Daerah Hulu Selangor (MDHS) Zon Kalumpang, Abdul Mun'im Roslin berkata, usaha itu disambut baik dalam memanfaatkan barang yang boleh gunakan semula dengan sentuhan kreativiti penduduk.

Menurutnya, ia secara tidak langsung membantu pihak berkuasa tempatan (PBT) mengurangkan kos penyelenggaraan akibat kerosakan atau perbuatan vandalisme.

"Taman permainan berkonsepkan 'recycled playground' ini yang pertama di daerah ini.

 ***Taman permainan berkonsepkan recycled playground ini merupakan yang pertama di daerah ini.***
- Abdul Mun'im

"Taman permainan ini juga pernah menang tempat pertama Pertandingan Cetusan Idea Warga Kota, Hari Inovasi Majlis Bandaraya Ipoh pada November 2016.

"Saya berharap usaha ini dapat diteruskan dan konsep taman dari barang kitar semula diperkasa serta diperluaskan ke taman perumahan lain," katanya.

LAMPIRAN 11
NEW STRAITS TIMES (WORLD): MUKA SURAT 77
TARIKH: 20 DISEMBER 2018 (KHAMIS)

TRAFFIC FLOWS

MUSK UNVEILS TUNNEL TO BEAT TRAFFIC JAMS

Sample touted as a fix for 'soul-crushing' congestion on Los Angeles roads

LOS ANGELES

ELON Musk on Tuesday took a break from futuristic electric cars and private space travel to unveil a low-cost tunnel he sees as a godsend for city traffic.

The billionaire behind Tesla and SpaceX late Tuesday put the spotlight on the 1.8km tunnel created by his Boring Company for about US\$10 million (RM41.78 million).

The sample tunnel is part of Musk's vision to have an underground network that cars, preferably Teslas, can be lowered to by lifts, then slotted into tracks and propelled along at speeds up to 241 kmh.

"The only way to solve this is to go

3D, for the transport system to match the living quarters," said Musk.

An entrance to a sample tunnel was shown publicly for the first time here as the initial stage of Musk's project to revolutionise city traffic by zipping along below congested streets.

Musk founded the Boring company two years ago as a self-financed, side-endeavour to his work at Tesla and SpaceX.

Specially designed equipment drills tunnels wide enough to accommodate a car on a track. The network envisioned is an expandable mesh of tunnels and elevators capable of having more than 4,000 cars pass through an hour.

"The deepest mines are deeper than the tallest buildings," said



A modified Tesla Model X drives into the tunnel entrance before an unveiling event for the Boring Co test tunnel in Hawthorne, south of Los Angeles on Tuesday. The tunnel is a preview of Elon Musk's larger vision to ease L.A. traffic. AFP PIC

Musk.

"The breakthrough is very simple: it's the ability to turn a normal car into a passively stable vehicle by adding the deployable tracking wheels, stabilising wheels, so that it can travel at high speed through a small tunnel."

Tunnels will eventually be open to all compatible self-driving electric vehicles, but for now Boring is using Teslas in the tube.

The idea for the project came to the billionaire of South African origin when he was fuming at the wheel of his car, trapped in traffic jams between his Bel Air villa and the SpaceX offices in Hawthorne.

It is a journey that takes him more than 90 minutes and he considered soul-crushing.

The "tunnel test" unveiled Tuesday appeared simple: a narrow tube, only 3.65m in diameter, freshly painted white, in which a Tesla Model X is fitted with stabilisers on wheels to slot into the track and avoid bumping the walls.

The entrance to the tunnel was dug in a parking lot in Hawthorne, with an elevator platform on a street corner raising and lowering cars to the track.

Journalists and others attending the event got to bolt through the short tunnel at about 65 kmh

in what felt somewhat akin to an amusement park ride.

Musk brushed aside worries about earthquakes in temblor-prone California, repeatedly contending that tunnels were the safest place to be when plates shift and the earth shakes.

The broad vision is that electric vehicles on city streets would be able to easily drop into tunnels or rise out using elevator platforms built into streets, or ramps where space allows.

Boring has partnered with public transit in Los Angeles to study the possibility of connecting tunnels with subway stations. **AFP**

LAMPIRAN 12
KOSMO! (DUNIA): MUKA SURAT 40
TARIKH: 20 DISEMBER 2018 (KHAMIS)

Robot mula ambil alih kawalan keselamatan di bandar utama AS



AGENSI
(ATAS) salah
sebuah robot
dilihat memantau
keselamatan
dan menghantar
maklumat secara
automatik ke
pusat kawalan.

AGENSI
ROBOT pengawal
keselamatan
sedang meronda
di sebuah pusat
beli-belah di Los
Angeles.



LOS ANGELES, California – Sebuah pusat beli-belah di sini memperkenalkan robot pengawal keselamatan untuk meronda dan mengenal pasti penyeluk saku di premis itu.

Robot itu boleh merakam video dan menghantar maklumat secara automatik ke pusat kawalan keselamatan untuk tindak balas pantas terhadap penjenayah. Robot serupa telah mula digunakan di San Francisco dan New York sejak Oktober lalu.

Ia dilengkapi kamera 360 darjah, WiFi, unit imbasan, boleh menyalurkan video secara langsung, merakam nombor plat kenderaan dan mengenal pasti muka individu.

Objektif utama robot tersebut adalah untuk membezakan antara pengunjung dan individu yang mungkin berniat jahat melakukan jenayah. Teknologi itu mungkin dikembangkan ke kawasan lain dalam masa terdekat.

Syarikat berpangkalan di Silicon Valley, Knightscope yang mengeluarkan robot tersebut menjelaskan teknologi itu bukannya untuk menggantikan pegawai polis dan pengawal keselamatan tetapi menyediakan sokongan dan 'mata' tambahan di lebih banyak kawasan. – Agensi

LAMPIRAN 13
KOSMO! (DUNIA): MUKA SURAT 41
TARIKH: 20 DISEMBER 2018 (KHAMIS)

AGENSI

IMEJ menunjukkan ais dan debu dalam lingkaran mengelilingi planet Zuhul.

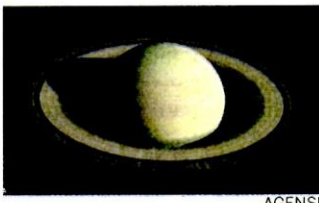


Zuhul bakal kehilangan lingkaran keliling planet

GREENBELT, Maryland – Satu kajian Pentadbiran Angkasa dan Aeronautik Negara (NASA) mendapati lingkaran mengelilingi planet Zuhul bakal hilang sepenuhnya dalam masa 100 juta tahun.

Pemantauan oleh kapal angkasa Voyager 1 dan Voyager 2 mendapati tarikan medan magnetik planet tersebut menarik debu dan ais dalam lingkaran itu menjadi 'hujan berdebu' ke permukaan Zuhul.

"Kami menjangkakan hujan ini boleh menyedut cecair



AGENSI

PLANET Zuhul.

daripada lingkaran itu yang cukup untuk memenuhi kolam renang bersaiz Olimpik setiap setengah jam," kata pegawai Pusat Pelancaran Angkasa Lepas NASA, James

O'Donoghue, di sini.

Lingkaran planet itu terbentuk daripada debu mikroskopik, ketulan batu besar dan serpihan ais yang tersangkut dalam kuasa tarikan graviti dan pusaran orbit mengelilingi Zuhul.

Pasukan penyelidik itu turut mendapati salah satu bulan planet Zuhul dikenali sebagai Enceladus mempunyai kerak aktif dan pancutan air panasnya mampu menyembur air beku ke angkasa lepas malah sampai ke permukaan Zuhul. – Agensi