

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

Bil	Berita	Media	Capaian Berita Penuh
1.	<u>Pelan sifar plastik dilancar bulan depan</u> Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim (MESTECC) akan melancarkan pelan hala tuju sifar penggunaan plastik pakai buang 2018-2030, pada 17 Oktober depan.	Berita Harian	Klik pada tajuk berita
2.	<u>Yeo: Do away with single-use plastic</u> At the forefront of this mission is the Roadmap to Zero Single-Use Plastic 2018-2030, which will be unveiled on Oct 17, says Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin.	The Star	Rujuk lampiran 1 atau klik pada tajuk berita
3.	<u>Malaysia to get rid of single-use plastic by 2030, says minister</u> The Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC) is working on ways to fully abolish single use of plastic by 2030, its minister Yeo Bee Yin said today.	Malay Mail	Klik pada tajuk berita
4.	<u>Pelan Hala Tuju Sifar Penggunaan Plastik Pakai Buang diperkenalkan</u> Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim (MESTECC) akan memperkenalkan Pelan Hala Tuju Sifar Penggunaan Plastik Pakai Buang 2018-2030 pada bulan hadapan bagi memberi kesedaran kepada masyarakat berkaitan isu global tersebut.	Kosmo	Klik pada tajuk berita
5.	<u>Hala tuju hentikan penggunaan plastik pakai buang dilancar bulan hadapan</u> Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeoh Bee Yin berkata, hala tuju baharu itu akan diumumkan	Utusan Malaysia	Klik pada tajuk berita

6.	<p><u>Be part of the discussion this Thursday on 'Voice for Nation Building'</u></p> <p>International Trade and Industry Minister Darell Leiking, and Energy, Science, Technology, Environment, and Climate Change Deputy Minister Isnaraissah Munirah are slated to speak at the event alongside youth speakers from World Wildlife Fund, Greenpeace Malaysia, International Association of Students in Economic and Commercial Sciences and more.</p>	Malay Mail	Klik pada tajuk berita
7.	<p><u>Loji solar termal pertama Malaysia di PPNJ Machap</u></p> <p>Majlis itu dirasmikan Ketua Setiausaha Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Datuk Seri Dr Mohd Azhar Yahaya.</p>	Berita Harian	Klik pada tajuk berita
8.	<p><u>SIRIM Thermal Solar Plant helps reduce fuel, electricity use</u></p> <p>He said this at the presentation of the project to PPNJ Poultry & Meat Sdn Bhd which was launched by the Ministry of Energy, Science, Technology, Environment and Climate Change secretary general Datuk Seri Dr Mohd Azhar Yahaya.</p>	BERNAMA	Klik pada tajuk berita
9.	<p><u>Kerjasama erat IPT, industri tingkat kebolehpasaran graduan</u></p> <p>Kerajaan baharu melalui Kementerian Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar akan menawarkan lebih banyak geran kepada industri untuk projek penyelidikan dan pembangunan (R&D).</p>	Berita Harian	Klik pada tajuk berita
10.	<p><u>Malaysia to launch road map on zero single-use plastic next month</u></p> <p>Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin said under the new roadmap, plastic straws usage will be by default where it will be given upon request by consumers.</p>	BERNAMA	Klik pada tajuk berita

11.	<p><u>Malaysia to launch road map on zero single-use plastic next month</u></p> <p>Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin said under the new roadmap, plastic straws usage will be by default whereby it will be given upon request by consumers.</p>	The Edge Market	Klik pada tajuk berita
12.	<p><u>Malaysia to abolish single-use plastics by 2030, introduce plastic bag charge</u></p> <p>Yeo said the road map will include suggestions for hydrocarbon-based plastic manufacturers in the country to switch to more eco-friendly products such as reusable straws.</p>	Channel News Asia	Klik pada tajuk berita
13.	<p><u>Malaysia to get rid of single-use plastic by 2030, says minister</u></p> <p>The Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC) is working on ways to fully abolish single use of plastic by 2030, its minister Yeo Bee Yin said today.</p>	Yahoo News	Klik pada tajuk berita
14.	<p><u>Harga saham Lynas menjunam di Australia</u></p> <p>Harga saham Lynas susut ke paras paling rendah A\$1.605 seunit, sebelum stabil pada A\$1.70. Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin, belum memberi sebarang komen ketika dihubungi.</p>	Berita Harian	Klik pada tajuk berita
15.	<p><u>Lynas worried that MP who had opposed its operations before is now evaluating it</u></p> <p>Arnold added that the most recent Department of Environment-appointed third party environmental audit on Aug 28 and 29 found 10 best practices, one "opportunity for improvement" but no instances of non-compliance.</p>	The Star	Klik pada tajuk berita
16.	<p><u>Lynas plunges most in four years on potential review in Malaysia</u></p> <p>Shares fell as low as A\$1.605 and traded at A\$1.70. Yeo Bee Yin, Malaysia's Minister of</p>	The Edge Market	Klik pada tajuk berita

	Energy, didn't immediately reply to a call and text seeking comment.		
17.	<p><u>Lynas 'concerned' if Fuziah heads review committee</u></p> <p>Last Friday, The Star Online reported that the Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin had appointed Fuziah as the chairperson of the ministry's committee to re-evaluate Lynas' plant in Gebeng, Pahang.</p>	Malaysia Kini	Klik pada tajuk berita

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
18.	<p><u>Lynas shares drop amid reports of government review</u></p> <p>Its US\$800 million plant, which produces low-level radioactive waste, began operations in 2012 after long delays caused by legal challenges and environmental disputes.</p>	Free Malaysia Today	Klik pada tajuk berita
19	<p><u>Plan WTE urus sampah jadi tenaga bakal dilaksana</u></p> <p>Sistem pengurusan sisa pepejal yang baharu bagi merubah sampah menjadi sumber tenaga (WTE) akan dilaksanakan di seluruh negara dalam tempoh dua tahun akan datang.</p>	Sinar Harian	Klik pada tajuk berita
20.	<p><u>Bintai Kinden bags RM14m gas insulated switchgear contract</u></p> <p>Bintai Kinden Corporation Bhd has bagged a RM14.03 million contract from Tenaga Nasional Bhd to set up a 132kV gas insulated switchgear switching station at Kuchai Lama, Kuala Lumpur.</p>	The Edge Market	Klik pada tajuk berita
21.	<p><u>Let's deal with our own plastic waste first</u></p> <p>A top priority now would be to stop the import of plastic waste, check the recycling factories to ensure they are doing the job properly and close down the illegal ones.</p>	The Star	Rujuk lampiran 2 atau klik pada tajuk berita

22.	<u>The science of tomorrow</u> The rise of Artificial Intelligence, The Internet of Things, Nanotechnology and Biotechnology is part of changes and challenges happening in the world.	New Straits Times	Rujuk lampiran 3
23	<u>Pengguna perlu belajar minum tanpa guna straw</u> Menurut aktivis alam sekitar, Amlir Ayat, masyarakat kini terlalu bergantung pada penggunaan straw plastik, sekali gus menyebabkan ia sukar untuk dikawal sehingga berlaku pencemaran.	Kosmo	Rujuk lampiran 4 atau klik pada tajuk berita
24.	<u>Ambil tindakan tegas terhadap pengusaha kitar plastik haram</u> Menteri itu menyatakan rasa terkejut beliau dengan tindakan pihak terbabit yang masih meneruskan operasi mereka walaupun beliau telah mengeluarkan satu arahan untuk menggantung operasi semua kilang plastik kitar semula di kawasan tersebut.	Kosmo	Rujuk lampiran 5
25.	<u>What goes around, comes around</u> “We are eating, drinking and seasoning our food with plastic,” says Dune Ives matter of factly.	The Star	Rujuk lampiran 6
26.	<u>Sustaining the future</u> His forte is sustainable development and his job involves advising governments and corporations on the matter.	The Star	Rujuk lampiran 7
27.	<u>UiTMSat-1 kejayaan aeroangkasa UiTM</u> Dua pelajar UiTM itu antara 10 pelajar yang menjadi ahli kerjasama Birds-2 yang bertanggungjawab merealisasikan pelancaran yang sama dengan satelit nano Bhutan-1 dan Maya-1 yang dibangunkan oleh pelajar dari Bhutan dan Filipina.	Utusan Malaysia	Rujuk lampiran 8

ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
28.	<u>Nepal reinstates US\$2.5b hydropower deal with Chinese firm</u> Nepal has reinstated a deal with a Chinese state-owned company to build a US\$2.5 billion hydroelectric plant scrapped by the previous government, officials confirmed Monday (Sep 24), as the new pro-Beijing administration seeks massive infrastructure investment.	The Sun	Rujuk lampiran 9
29.	<u>Katla ancam Eropah</u> Sebahagian besar kawasan darat pula mula ditenggelami air, menyebabkan kawasan ladang beracun dan beberapa perkampungan musnah.	Berita Harian	Rujuk lampiran 10
30.	<u>Tukun tayar punca pencemaran</u> BBC melaporkan, operasi di projek tukun tiruan yang gagal itu menelan kos sebanyak AS\$1.1 juta (RM 4.5 juta) dan sebahagiannya dibiayai pengeluaran tayar terkemuka, Michelin dan kerajaan Perancis.	Utusan Malaysia	Rujuk lampiran 11
31.	<u>OKU kendali kafe guna pelayan robot</u> Sebuah kafe yang bakal dibuka di daerah Akasaka pada November ini akan menampilkan pelayan robot yang dikawal dari rumah oleh golongan orang kurang upaya (OKU).	Utusan Malaysia	Rujuk lampiran 12 atau klik pada tajuk berita
32.	<u>Green tech could save UK £540m: Centrica report</u> A new report by British energy company Centrica has found that wider deployment of low-carbon technologies such as solar arrays and battery technologies could save the UK industry at least £540m on its annual energy spend.	Power Technology	Klik pada tajuk berita
33.	<u>Labour wants green energy to power most UK homes by 2030</u> Almost all of Britain's homes and businesses would be powered by wind, solar and nuclear	The Guardian	Klik pada tajuk berita

	power by 2030, under bold new green energy plans being outlined by Labour.		
34.	<p><u>Scotland needs tougher policies to meet CO2 targets, say experts</u></p> <p>The UK government's committee on climate change (CCC) said the Scottish National party government was well on track to hit its 2020 target to cut emissions by 56%, reducing them faster than the UK as a whole.</p>	The Guardian	Klik pada tajuk berita
35.	<p><u>Initiative to create high-end textiles from plastic waste</u></p> <p>Under the MoU, GC will provide technological know-how and support for transforming plastic waste into textile products. The companies will focus on developing products that are less environmentally damaging, while bringing high standards to the task of reducing Thailand's waste problems.</p>	The Nation	Klik pada tajuk berita
36.	<p><u>Georgia nuclear project continues, but cost controls sought</u></p> <p>The nation's only major nuclear power plant under construction appears to still be alive after the owners voted to push forward despite another multibillion-dollar cost overrun.</p>	Financial Post	Klik pada tajuk berita

LAMPIRAN 1
THE STAR (NATION): MUKA SURAT 10
TARIKH: 25 SEPTEMBER 2018 (SELASA)

Preserving nature:

Dr Xavier (second from right) looking at a preserved turtle after the launch of the International Union for Conservation of Nature (IUCN) Symposium and Red List Assessment at Universiti Malaysia Terengganu. With him is UMT vice-chancellor Datuk Dr Nor Aeni Mokhtar (fourth from right). — Bernama



Yeo: Do away with single-use plastic

By JOSEPH KAOS Jr
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PUTRAJAYA: Malaysia is aiming to do away with single-use plastic by 2030, as the country tries to shed its reputation as one of the largest producers of plastic waste in the world.

At the forefront of this mission is the Roadmap to Zero Single-Use Plastic 2018-2030, which will be unveiled on Oct 17, says Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin.

"Malaysia is the eighth largest producer of plastic waste in the world. Plastic waste is the second biggest type of waste in the country after food.

"We need a proper roadmap with

clear plans on how we can reduce and even better, eliminate the consumption of single-use plastic by 2030," Yeo said at a town-hall session here.

The session was held to gather stakeholders' feedback on plastic waste, which would be incorporated into the drafting of the roadmap.

To encourage people to stop using single-use plastics, Yeo said the government should find ways for alternative solutions that were not only affordable, but accessible to all.

"At the same time, our mission to reduce consumption of single-use plastics must not kill existing plastic manufacturers. We want to help them and everyone else prepare for the future," said Yeo.

The roadmap will be launched at

the International Greentech and Eco Products Exhibition and Conference Malaysia.

In a statement, Water, Land and Natural Resources Minister Dr A. Xavier Jayakumar called on the relevant authorities to suspend all unlicensed plastic waste recycling factories in Selangor.

According to Bernama, the Kuala Langat MP said the unabated recycling activities continued to pollute the environment and posed health risks to nearby residents in his constituency.

He said the activities continued despite his order last month to the Kuala Langat Municipal Council (MDKL) to suspend the operations of all plastic waste recycling factories in Kuala Langat.

LAMPIRAN 2
THE STAR (VIEWS): MUKA SURAT 28
TARIKH: 25 SEPTEMBER 2018 (SELASA)

Let's deal with our own plastic waste first

FEDERAL ministries and state government agencies have been active recently in encouraging the public to stop using single-use plastic materials.

National Geographic has said that Malaysia disgorges about 30,000 tonnes of plastic waste annually into the ocean. As a result, we have the dubious distinction of being one the biggest dumpers of plastic waste in Asia.

In December last year, China stopped importing plastic waste for recycling from other countries, and recyclers in Malaysia have stepped in to take up the job. We have now become the dumping ground of plastic waste from developed nations, which is ironic since we ourselves are struggling to manage our own plastic waste.

The government suspended the importation of plastic scrap (HS 3915 plastic) in July but lifted it the following month. The suspension should have been permanent as we should be using our own plastic waste for recycling. If we need to import plastic waste for recycling, it should only be high grade plastic that can be fully recycled.

The caps and labels of plastic water bottles cannot be recycled



and would likely end up being burned or dumped in our rivers or landfills. Also, there would be other plastic materials like straws and bags among the plastic waste imported for recycling, and since these are too troublesome and not economical to recycle, they would also end up in our landfills or waterways.

There is suspicion that most of the local plastic recycling factories in Malaysia have been set up by

recyclers from China who simply moved their operations here. The authorities should conduct stringent and frequent checks on these recycling factories to ensure the imported plastic are not burned or dumped into the local rivers and landfills. Owners of the factories caught doing so should be prosecuted and their factories closed down if they are repeat offenders.

There is also a proliferation of illegal factories handling the sud-

den surge of imported plastic waste when China stopped receiving them. These factories must be shut down immediately and their owners hauled up into court to face the full brunt of the law. This would deter others from setting up similar operations.

Malaysians are still trying to get used to adopting recycling as a way of life and being environmentally consciousness. Hence, the authorities must ensure that we are not importing another problem onto our shores.

A top priority now would be to stop the import of plastic waste, check the recycling factories to ensure they are doing the job properly and close down the illegal ones.

The government has commendably recognised and led the way in encouraging the public to reduce and eventually stop the usage of single-use plastic products and all Malaysians must do their bit to make this effort successful.

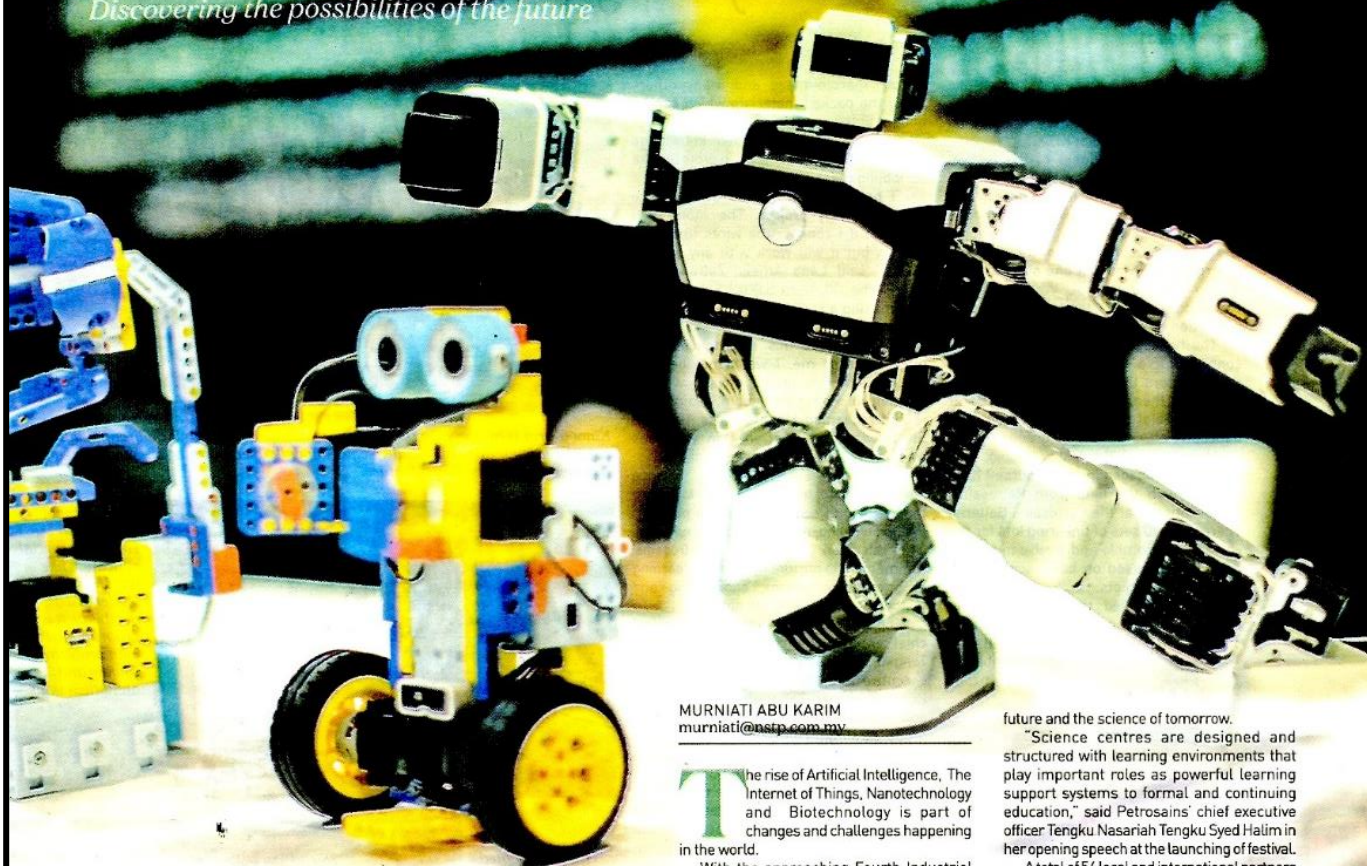
The government also needs to stop the import of plastic waste into our country.

KOO WEE HON
Petaling Jaya

LAMPIRAN 3
NEW STRAITS TIMES (SCHOOL TIMES): MUKA SURAT 31
TARIKH: 25 SEPTEMBER 2018 (SELASA)

The science of tomorrow

Discovering the possibilities of the future



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The rise of Artificial Intelligence, The Internet of Things, Nanotechnology and Biotechnology is part of changes and challenges happening in the world.

With the approaching Fourth Industrial Revolution and also the aspiration to move forward, Petrosains recently organised a three-day science festival themed "Journey Into The Future, One Discovery At A Time".

The festival engaged and inspired the younger generation on possibilities of the

future and the science of tomorrow.

"Science centres are designed and structured with learning environments that play important roles as powerful learning support systems to formal and continuing education," said Petrosains' chief executive officer Tengku Nasariah Tengku Syed Halim in her opening speech at the launching of festival.

A total of 54 local and international partners joined hands to showcase their latest inventions and technologies for visitors, especially the young, to discover and engage with.

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LAMPIRAN 3 (SAMBUNGAN) NEW STRAITS TIMES (SCHOOL TIMES): MUKA SURAT 31 TARIKH: 25 SEPTEMBER 2018 (SELASA)



Petronas chairman Datuk Ahmad Nizam Salleh, and school pupils engaging with the Alpha IE, an intelligent humanoid robot at the Petrosains Science Festival 2018 Launch.



Sanbot is a smart mobile robot programmed to be a receptionist, care giver and tutor. Its ability to move and change emotions caught the attention of visitors at the festival.

Science festival for younger generation

FROM PAGE 31

Advanced technologies and human-like robots took over the largest science-themed festival in the country – Petrosains Science Festival 2018 at KLCC.

One of the highlights of the festival was robots exhibited by Ubtech, a local robotics company which introduced their robots lineup – Nao, Kinova and Sanbot.

At the Esplanade KLCC Park, people were seen queuing up to try a brain-controlled helicopter at one of the booths at the science festival. What attracted the visitors was the toy helicopter being controlled by nothing but brainwaves.

The helicopter comes with a headset connected to a smartphone via Bluetooth that monitors the signals from the brain and turns them into flight commands. It takes a mental concentration to make the helicopter elevate from the ground.

Meanwhile at the Maker Studio, kids and adults engaged in do-it-yourself (DIY) projects with the help from Petrosains' team stationed at the Petrosains Galleria. There were 10 sets of tinkering kits for the visitors to assemble and involve in hands-on activities based on basic science and technology concepts.

Visitors applied their creativity and science knowledge to build their own constellation night light, scribbling machine, paper

circuit, marble maze and many others using the packed materials which can be bought at the counter.

Children must apply their knowledge on electricity in making their projects like scribbling machine and paper circuit.

"I have to do trial and error before completing my project. The motor will not start if I connect the wires to plastic objects but it will work with any kind of metal," said Lana Ameer Zafran Mohd Lana Adha, 10, from SJK(C) Subang, who was making a scribbling machine with his two younger brothers.

"To assemble this electric circuit is quite hard for me. I would not be able to complete this project myself without the help of Petrosains' team," said Azfar Hakim Mohamad Mokhtar, also 10, from SK Bandar Tun Hussien Onn who was visiting the festival with his parents.

Held annually, Petrosains Science Festival is one of the key initiatives to inspire the learning of science through a platform that is engaging, educational and impactful. It is also an extension of Petrosains' commitment to nurture meaningful learning of science, technology, engineering and mathematics (STEM) in the nation.

The launch was attended by Petrosains' chief executive officer Tengku Nasariah Tengku Syed Halim, KLCC Properties chief executive officer Hashim Wahir, Petrosains Board chairman Zahariah Abdul Rahman and Petronas senior general manager, group strategic communications as well as representatives from the Petrosains Science Festival partners.

"This is the biggest science festival we have organised with three different locations at the same time to provide more options for the visitors. Our target is not only for kids. We want to reach everyone including the youths and millennials as well as adults to cultivate their interest in science and technology.

"Learning cannot be done in isolation, it has to be contextual. Here, we are aiming to give the best learning experience that is fun and enjoyable," said Tengku Nasariah.

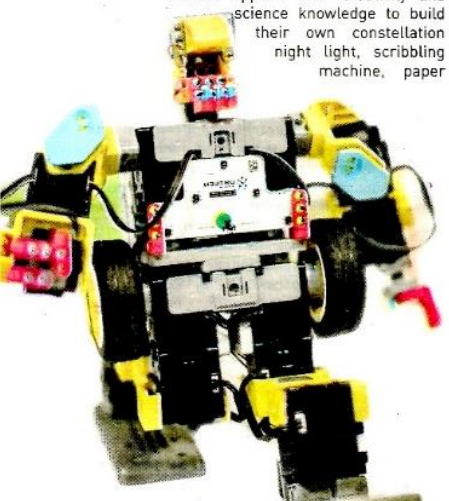
For the first time this year, the celebration of the festival is also extended to other parts of the country at Petrosains PlaySmart Kuantan and Petrosains PlaySmart Johor Baharu.



Kinova arm is an assistive robot designed to improve human's daily capabilities – spinal muscular atrophy, quadriplegia, upper limb amputation or spinal cord injury. It comes with a three-finger feature.



Nao is a robot designed to engage in special education like autism and students with disability. It is programmed with problem solving and analytical skills.



This complicated track from Ubtech is to demonstrate a robot's ability to move and navigate.



LAMPIRAN 4
KOSMO (ISU): MUKA SURAT 26
TARIKH: 25 SEPTEMBER 2018 (SELASA)

Pengguna perlu belajar minum tanpa guna straw

SETIAP kali memesan minuman di gerai makan, restoran mahupun hotel mewah, pastinya kita diberikan sekali penyedut minuman.

Ia merupakan sebahagian daripada elemen penting yang memberikan pengguna menikmati pengalaman gastronomi yang sempurna.

Pengguna boleh menikmati minuman dengan lebih cermat tanpa perlu risau perihai seperti ngilu pada gigi.

Penyedut minuman itu merupakan inovasi yang diperkenalkan oleh pereka moden Amerika Syarikat, Marvin Chester Stone pada Januari 1888. Menariknya, amalan minum air menggunakan penyedut minuman sudah pun dilakukan sejak tamadun Mesopotamia kira-kira 5,000 tahun Sebelum Masihi lagi. Kini, ia digunakan secara meluas sehingga kini.

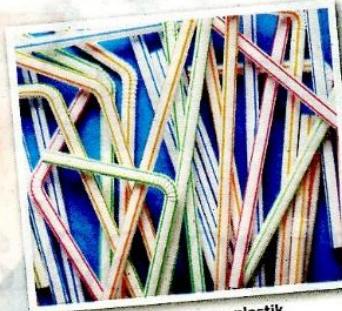
Dengan perkembangan teknologi yang memberangsangkan, penyedut minuman yang dahulunya digunakan daripada serat tumbuhan itu kini diubah menggunakan material plastik.

Malangnya, penyelidik Universiti Georgia mendedahkan inovasi itu menyumbang kepada pencemaran plastik dunia apabila ia merangkumi 4 peratus daripada 9 juta tan sisa pepejal yang dibuang ke laut setiap tahun.

Menurut aktivis alam sekitar, **Amlir Ayat**, masyarakat kini terlalu bergantung pada penggunaan straw plastik, sekali gus menyebabkan ia sukar untuk dikawal



AMALAN minum air menggunakan straw perlu dihentikan.



PENYEDUT minuman plastik menyumbang kepada pencemaran alam sekitar sekiranya tidak dilupuskan dengan betul.

penyedut minuman. Pelanggan akan minum minuman tanpa menggunakan straw.

Penasihat Bahagian Alam Sekitar, Persatuan Pencinta Alam Malaysia (MNS), Prof. Dr. Ahmad Ismail menyambut baik pengumuman Kementerian tersebut.

Mentaliti

Katanya, ia merupakan langkah yang wajar diperkenalkan ekoran Malaysia kini merupakan negara kelapan di dunia yang membuang plastik dalam lautan.

"Sejak awal tahun lagi, aktivis, persatuan dan penyelidik alam sekitar dari seluruh dunia mempromosikan pengurangan penggunaan barangan berasaskan plastik."

"Hal ini kerana pencemaran plastik di lautan mengancam populasi hidupan laut seperti penyu, ikan dan burung-burung laut sehingga akhirnya dikhuatiri mengancam keseimbangan ekologi dunia."

"Bagi memastikan penguatkuasaan undang-undang itu dapat dilaksanakan dengan berjaya, pendidikan dan kempen berskala besar yang melibatkan seluruh masyarakat perlu dilakukan secara konsisten," jelasnya.

Selain itu, pendidikan dari peringkat akar umbi lebih-lebih lagi golongan kanak-kanak dan pelajar peringkat universiti juga perlu diperkasa.

Tambah Ahmad, cabaran utama penguatkuasaan undang-undang itu ialah mentaliti masyarakat yang sukar berubah selain mengambil tempoh masa panjang untuk efektif.

Justeru itu, semua pihak harus berganding bahu memastikan penguatkuasaan undang-undang itu berjalan lancar.

Selain itu, di samping penguatkuasaan undang-undang, pengetahuan, kesedaran dan amalan dalam kalangan masyarakat perlu turut diberikan penekanan.

sehingga berlaku pencemaran.

Petroleum

"Straw plastik ini sememangnya menyumbang kepada pencemaran alam sekitar kerana ia diperbuat daripada petroleum selain tidak mudah terurai."

"Disebabkan itu, alternatif baharu perlu diperkenalkan bagi menggantikan penyedut minuman sedia ada misalnya straw logam, kertas, mahupun plastik yang boleh digunakan berulang kali."

"Ia bagi memudahkan kedua-dua belah pihak iaitu pengguna dan peniaga sekali gus melahirkan masyarakat yang peka terhadap alam sekitar," jelasnya ketika dihubungi *Kosmo!* baru-baru ini.

Tambah Amlir, penggunaan straw plastik juga dilihat sebagai salah satu langkah mendidik masyarakat yang berkesan. Bagaimanapun, inisiatif tersebut perlu dilakukan secara berperingkat agar masyarakat dapat memahami terlebih dulu relevan undang-undang itu diperkenalkan.

Baru-baru ini, Kementerian

Wilayah mengumumkan penghapusan penggunaan penyedut minuman plastik di semua kedai dan restoran makanan di Kuala Lumpur, Putrajaya dan Labuan mulai Januari tahun depan.

Langkah itu bertujuan mengurangkan pencemaran dan memelihara alam sekitar.

Tindakan penguatkuasaan akan diambil bermula tahun 2020 selepas pengguna terutama peniaga diberi kesedaran mengenai bahaya penggunaan produk berasaskan plastik.

Mekanisme peruntukan undang-undang adalah sama seperti penggunaan beg plastik dan bekas makanan polistirena. Peniaga yang didapati melanggar peraturan boleh dikompau tidak melebihi RM1,000.

Kementerian itu juga dalam proses untuk memasukkan larangan penggunaan penyedut minuman plastik tersebut sebagai salah satu daripada syarat permohonan dan pembaharuan lesen perniagaan.

Ketika ini restoran makanan segera, McDonald's dan gedung kelengkapan rumah dan hiasan dalaman, Ikea, telah memulakan inisiatif tidak menyediakan



AMLIR



AHMAD



HIDUPAN laut seperti penyu terjejas disebabkan sisa straw plastik yang dibuang di laut.

LAMPIRAN 5
KOSMO (NEGARA): MUKA SURAT 4
TARIKH: 25 SEPTEMBER 2018 (SELASA)

Ambil tindakan tegas terhadap pengusaha kitar plastik haram

KUALA LUMPUR – Menteri Air, Tanah dan Sumber Asli, Dr. A. Xavier Jayakumar (**gambar**) menyeru agar semua agensi penguatkuasaan mengambil tindakan tegas dan lebih agresif dalam menangani pengusaha bahan buangan plastik kitar semula di Kuala Langat, Selangor.

Menteri itu menyatakan rasa terkejut dengan

tindakan pihak terbabit yang masih meneruskan operasi mereka walaupun beliau telah mengeluarkan arahan untuk menggantung operasi semua kilang plastik kitar semula di kawasan tersebut.

Jayakumar berkata, beliau telah mengarahkan pihak berkuasa tempatan iaitu Majlis Perbandaran Kuala Langat (MDKL) un-



tuk menggantung operasi semua kilang plastik kitar



KERATAN Kosmo! 21 September 2018.

semula di Kuala Langat pada Ogos lepas.

“Tindakan pengusaha yang tidak mengendahkan arahan tersebut dengan meneruskan operasi mereka. Ini memberikan saya satu tanggapan sama ada pihak berkuasa dan agensi terbabit bersubahat dengan pengusaha tersebut ataupun mereka tidak menjalankan tugas sehingga membolehkan kilang terbabit beroperasi

semula.

“Oleh itu, saya meminta semua agensi penguatkuasaan untuk sekali lagi mengambil tindakan tegas terhadap pengusaha haram dengan melaksanakan penguatkuasaan tanpa rasa takut ataupun memihak kepada mana-mana pihak,” katanya dalam satu kenyataan semalam. – Bernama

LAMPIRAN 6

THE STAR (ECOWATCH): MUKA SURAT 5

TARIKH: 25 SEPTEMBER 2018 (SELASA)

What goes around, comes around

The NextWave initiative is all about using ocean-bound plastics to manufacture other products.

By DINESH KUMAR MAGANATHAN
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"WE are eating, drinking and seasoning our food with plastic," says Dune Ives matter-of-factly.

But don't mistake her nonchalance for indifference or apathy. The fact is, ocean plastic pollution is an epidemic and stating it bluntly is the only way for her to say it.

But what do plastics in the ocean have to do with what we eat or drink or even season?

"Everything," warns Ives, the executive director of the Lonely Whale Foundation (LWF), an environmental outfit co-founded in 2015 by actor and social advocate Adrian Grenier and Lucy Sumner to bring about a positive impact for the health of our oceans.

Ives says plastics in the ocean photodegrade into microplastics which fish eventually eat. She adds that 84% of tap water and 93% of bottled water tested globally have been found to contain plastic fibres.

Even worse, 100% of sea salt samples tested show plastic fibre content.

"And while we don't yet know what the impact is, it just can't be good. We weren't meant to have plastic in our body, just like a sea turtle wasn't meant to have a plastic straw up its nose," Ives says.

The impending fate of the ocean and marine life is alarming and frightening. This cannot be stated enough.

Taking note of the urgency, tech giant Dell started a partnership with LWF in 2015. Last year, they convened seven other global corporations (Bureau, GM, Herman Miller, Humanscale, Interface, Trek, Bicycles and Van De San) to set up the NextWave initiative.

The aim of NextWave is to intercept plastics in rivers and coastal



The Dell Penang team went around the Bayan Lepas beach front in Penang, collecting plastic, as part of its CSR initiative.

areas before they make it to the ocean and use them in manufacturing while also creating economic and social benefits for stakeholders.

NextWave hopes to divert three million pounds (1.4 million kg) of plastics over five years, the equivalent of keeping 66 million water bottles from washing out to sea.

This initiative, of course, ties in perfectly with its Legacy Of Good Plan, which, according to Dell Malaysia's managing director Pang Yee Beng, "is not a project or a programme but it's part of the DNA of the company".

Pang, who is also the senior vice president of Dell EMC South Asia and Korea, was quick to point out that the Legacy Of Good Plan is "not just a US-driven initiative but we do it in Malaysia and wherever we have our footprint".

He says all three company sites (Cyberjaya, Penang and Bukit Mertajam) have been given the

green logo by the Penang Green Council auditor for the Penang Green Office programme. Both sites in Penang were certified last year while the Cyberjaya site was certified in July this year.

"We announced in June that we will no longer use plastic straws and I'm even thinking of implementing no plastic bottles," Pang adds.

Minimising plastic consumption is not just practised on site. In July, the Penang team partnered with the Penang City Council as part of its corporate social responsibility (CSR) initiative called #ShoreUp. It went around the island collecting plastic bottles.

In fact, says Pang, the Penang team will be hosting another beach clean-up event this month, in conjunction with World Cleanup Day.

"Keeping plastics out of the ocean is our No. 1 priority," Pang stresses.

He adds: "What we want to do, if possible, through innovation, is showcase how we can lead and make things positive. The supply chain is key."

Dell's XPS 13 is a testament to this. The 2-in-1 laptop now ships in packaging made with 25% of recovered ocean-bound plastics while the remaining 75% is made with recycled materials.

The next step, according to Ives and Pang, is to see whether the cushioning at the bottom of a laptop or even the keys of the keyboard can be made using ocean-bound plastic.

"What this does is, it turns the tap off. It keeps plastic from getting into the ocean in the first place and it creates value. So, if we want to solve this problem, we have to create value of this waste product," Ives says.

She adds: "We can no longer have a linear way of thinking about extraction, production and

then disposal. Our supply chain has to be circular in nature.

"And when we think about this issue from a circular economy standpoint, it's really beginning with the end in mind. Any replacement that's been made, even the packaging which has created through this initiative, we need to really think carefully about take-back."

Simply put, a circular economy is an industrial model that aims to be restorative and regenerative – that is, recycling and reusing materials from a product to produce something else and in effect, design waste out and minimise the negative impact.

And this is what Ives and her team are specifically looking at when they approach companies to get on board the NextWave initiative – companies that are willing to produce products like the laptop packaging "not just one and once but to be committed" with circular economy in mind.

This ocean salvation project is still in its infancy and the road ahead seems long and arduous. But Ives is positive.

"I do see more and more companies joining us in this initiative. I can't tell who they are yet but we have two of the largest companies in the world joining this initiative."

"And they are joining because they are inspired but also, they see lots of opportunities."

They see single-use plastics everywhere that they produce and they see opportunities to lock up these plastics permanently into their products," Ives says.

"Collaborations like this are very important," Pang says.

"We can't do it on our own, no matter how big we are. It's even more critical that it's done collaboratively."

The rising tide of plastic waste

FROM its creation through its rise in the 1990s, the world has embraced plastic as an affordable and versatile material. By the time its impact on the environment and marine ecosystems became clear, plastic had conquered the world marketplace.

A toxic love story is how Tomy Tjitadja, co-founder and CEO of Indonesia-based social enterprise company Greenhope, describes people's relationship with the material.

Today we face a dilemma – we can't live with plastic's impact, but we can't live without its convenience.

Tjitadja's company specialises in the development of sustainable production and consumption practices for plastic.

He sat down with other panellists during the World Economic Forum on Asean 2018 (WEF Asean) to discuss how Asean countries can turn the tide in the battle against plastic waste.

The outcome could be decided here in South-East Asia. Asean countries are among the world's largest producers of plastic waste.

A report by the Ocean Conservancy and the McKinsey Centre for Business and Environment showed half of the world's plastic waste comes from China, Indonesia, the Philippines, Vietnam and Thailand.

Much of that waste ends up in the ocean. According to a WEF report, there will be more plastic than fish in the ocean by 2050 unless the volume of waste people produce is reduced.

Pointing fingers, however, will likely lead us nowhere. Instead, solutions must account for communities' unique characteristics. Plastic waste is a problem too big for any one person or government to tackle alone; the key to success may lie in the ability to involve local people, said the panellists.

Plastic is cheap to produce. Its applications are beyond measure. For these reasons, it is a constant presence in everyday life. As with many of life's other conveniences, the key word is moderation.

Panellists argued that while effective regulation and technology will be important, the largest factor is likely to be whether customers are willing to shift their habits.

These shifts have already begun, with rising public awareness and more educational programmes emerging in recent years.

From a young girl who asks her father, a manufacturer, if he makes a good kind of plastic to classrooms



According to a WEF report, there will be more plastic than fish in the ocean by 2050 unless the volume of waste people produce is reduced. — AFP

where students volunteer to take part in a recycling group, the will to change is gaining momentum.

Some supermarket chains are beginning to charge extra for plastic bags. They hope they can prompt a change in the way people shop.

Enabled by the rise of social media, these sorts of grassroots movements have the potential to force plastic makers to change their business model.

Everyone has a part to play in the

effort. The best solutions are likely to come from a multitude of different sources, from people of different backgrounds coming together.

In some places, authorities have taken regulatory actions to reduce waste. One example is Delhi, where the Indian government introduced a plastic bag ban.

Tjitadja, however, said policies must be crafted from an informed position lest they have unintended consequences.

"What are people using as a substitute? Do they use carton bags or they use paper bags? Those things are more energy-intensive to produce," he said.

"They use it often enough and they create this other thing which is climate change."

Panellists argued solutions should include local communities, businesses and governments. The best solution would be one that is economically and technologically sustainable while improving the lives of local people.

Greenhope has introduced a biodegradable cassava-based plastic called Ecoplas. Tjitadja hopes that material, along with an oxo-biodegradable additive they call Oxiun, will help reduce plastic waste worldwide.

Did you know bright green is one of the least eco-friendly colours to print on a label? Cees' Hart, CEO of Carlsberg Group, told audiences that fact during the panel. The group is planning to reduce the flashiness of its green label to lessen its environmental impact.

We all share the Earth, so plastic waste is not a problem that belongs to any one group. There is no reason we cannot come together to deal with it, said panellists.

Tjitadja summed up this sentiment best – Less ego, more eco. — Viet Nam News/Asia News Network

LAMPIRAN 7

THE STAR (ECOWATCH): MUKA SURAT 7

TARIKH: 25 SEPTEMBER 2018 (SELASA)



A 2-megawatt solar farm in Kudat, Sabah, Malaysia has much potential to pursue solar power as a renewable energy source, says Porritt. — Bernama

Sustaining the future

Sustainability expert Sir Jonathon Porritt explains how we can balance prosperity and sustainability.

By **WONG LI ZA**
star2@thestar.com.my

HIS forte is in sustainable development and his job involves advising governments and corporations on the matter.

Sir Jonathon Porritt is co-founder of Forum for the Future, a global sustainability non-profit organisation founded in 1994.

He is an advisor to Prince Charles on green issues in his capacity as co-director of the Prince of Wales Business and Environment Programme.

The Oxford graduate (Magdalen College) in modern languages is also an author with eight titles to his name.

Currently, Porritt serves as the Chancellor of Keele University, Britain. For the last seven years, he has served as sustainability advisor for Sime Darby, and currently, for Sime Darby Plantation.

In a recent one-to-one interview, he shares his thoughts on issues from balancing sustainability and prosperity, to the role of the Roundtable on Sustainable Palm Oil (RSPO).

You have mentioned the need to use the window of opportunity to ensure sustainability, that we need to act fast within these 10 to 15 years. Can you elaborate, please?

The reality is that we have ignored so many of these (environmental) issues for so long that we now have to move a lot faster than we would have had to if we had acted in a timely and decisive way earlier. So we now have to play catch-up with these big issues that we have left for so long, like the impact on diversity, climate change and pollution. That means we don't have an indefinite period of time to go on doing the rather inadequate little bit that we are doing at the moment. We have to do a lot more.

What is the key to balancing sustainability and prosperity and does the current economic conditions affect these targets?

We are not about stopping people from looking into their economic well-being. The real issue is, what is the way in which we create growth? If we go on creating growth the way we are doing now, it's very damaging to the physical

environment and atmosphere, and people's health, and that is really foolish. So what we have to do is to create wealth by not damaging the environment or (affecting people's) health and stopping further impact on people and communities.

The Forum for the Future has been doing this work for 22 years, working with corporations, governments and civil societies.

We often bring them together in stakeholder coalitions to work together so they do not (work) in their own silos. The advice we are offering our corporate partners in particular is in how they use their enormous corporate muscle. They have big spend, employ very good people, reach millions through their products and services, and affect many communities directly.

So it's an issue of how they can handle all of those relationships with a much more positive outcome than is sometimes the case. In Malaysia, our principal partner is Sime Darby and we are doing a lot of work on sustainable palm oil. It's still a question of achieving economic objectives but doing it without those negative costs (to the environment and people).

Ensuring sustainability also means moving away from fossil fuels and towards renewable energy. What is your advice to Malaysia in terms of this?

I think people are now coming to terms with why we have to move away from fossil fuels. And it is important to remind everybody just how urgent this is as we still burn an awful lot of coal, oil and gas because that's the energy system we have been used to for many decades.

The problem is when we use them, they release greenhouse gases that cause the problem of climate change. We know that this problem is now moving much faster than we thought it was going to, and it's already a very big problem. The whole world is experiencing extreme weather conditions that are a consequence of climate change that we have caused.

Here in Malaysia, there are real opportunities for a much more rapid acceleration and uptake of renewable energy. I am hoping that the urgency of this now will be something the new government will be much more mindful of. Other countries are moving very



Plastic waste seen on a beach in Lima in June this year. Porritt says that the use of plastics for packaging will triple over the next 20 years, and a lot of that is already in our rivers, oceans and on beaches. — AFP



Porritt is the co-founder of Forum for the Future, a global sustainability non-profit organisation, and sustainability advisor to Sime Darby Plantation. — SAM THAM/The Star

fast to reduce the use of fossil fuels and increase renewable energy, particularly solar energy, wind power and the use of biomass in one form or another. And Malaysia has incredible resources in terms of sunshine and biomass.

You have found that young people today are more environmentally-conscious. How do you see them making waves of change?

For me, it's very clear that young people now can see the future that awaits them. If we continue with the business-as-usual growth model, it will be an uncomfortable one. There will be more environmental problems and worsened pollution issues. For example, the use of plastics for packaging will triple over the course of the next 20 years. And a lot of that is already in our rivers, oceans and beaches. So, I am very confident that young people will not be as complacent as the generations before them. One reason is that in schools, they get a much better understanding of how important protecting the environment is.

Globally, only about 20% of traded palm oil is certified sustainable. What does this say about the whole effort so far in pushing for sustainable palm oil? When will we even reach 50%, for example?

We will reach 50% when the people who are buying palm oil from Malaysia and Indonesia decide to use their purchasing power to buy the good stuff (certified sustainable palm oil). There

will be a real moment of truth, and it's important to stress that by 2020, a lot of the world's biggest consumer companies that have made big claims about how they were going to sort out their problems with their palm oil supplies or deforestation-free supply chains, have still not done what they said they were going to do. And they are still not buying certified sustainable palm oil.

So there is a deep hypocrisy, which actually irritates me enormously, because there are a lot of people in the West who constantly berate the industry for failing to do this or that. Sometimes they need to look a little closer in terms of their own decisions. The real problem is the people who are buying it are not buying sustainable oil.

Regional palm oil buyers have cited the price of sustainable palm oil, lack of consumer awareness and demand for certified sustainable products as deterrents when sourcing certified sustainable palm oil (CSPO). What are your comments on this?

This is just so unreasonable. On the one hand, everyone in the European countries and America is saying that you've got to produce palm oil without damaging the environment and people, and most big companies in Malaysia, through RSPO, have met those challenges.

And they have gone a long way to do so. Of course, not all the way,

and I am still critical about a lot of things.

On the other hand, the same people who made those demands in the first place turn around and say, "We are not paying extra for that! Our consumers do not want to pay extra for that."

There is this imbalance between the demand and the way the industry shares the responsibility. They need to talk with their consumers and explain why this is important.

How can RSPO further enhance its role in taking sustainable palm oil to another level?

There is a big conference coming up this year where RSPO will look at a revised set of principles and criteria and these are the kinds of standards that companies certified by RSPO have to achieve. And those standards have been updated over the years to make them more relevant and tougher.

So it is absolutely crucial that the RSPO agrees to those new standards because if they don't, there is a real problem in terms of how people in developed world markets will see the world of the RSPO. And the RSPO is trying to do more about deforestation and social issues. There is quite an important upgrade in the requirement of companies when they get themselves certified.

We are on a journey towards this. I've said many times that the oil palm industry has moved further in 10 years than any other large agricultural commodity in the world. So for me, I have to look at this stuff relatively. I am not giving the palm oil industry a clean bill of health. There are tonnes of things that they still need to improve on.

One of the projects that we are involved in with Sime Darby and other large companies here and in Indonesia is looking at the working conditions of workers on plantations and how to improve them. The consequence, I think, will be that in two to three years, we will see significant improvements in the working conditions.

So (our work) is about right now, what can be done, how to make the industry deliver better for every stakeholder over a short period of time. And it's a continuous effort to find new ways to do a better job of managing this palm oil asset.

LAMPIRAN 8

UTUSAN MALAYSIA (MEGA): MUKA SURAT 23

TARIKH: 25 SEPTEMBER 2018 (SELASA)



DUA pelajar UiTM, Muhammad Hasif Azami (kanan) dan Syazana Basyirah Mohamad Zaki (kiri) bersama model satelit Nano UiTMSat-1 yang berjaya dilancarkan ke Stesen Angkasa Lepas Antarabangsa (ISS), baru-baru ini.



DUA pelajar pascasiswazah Malaysia dari Universiti Teknologi Mara (UiTM) melakar sejarah negara apabila satelit nano, UiTMSat-1 yang dicipta dan dibangunkan oleh mereka berjaya dilancarkan ke orbit dari Stesen Angkasa Antarabangsa (ISS) melalui kawalan Pusat Pelancaran Fort Canaveral, Florida di Amerika Syarikat baru-baru ini.

Satelit nano berbentuk kiub

berukuran hanya 10 sentimeter itu dibangunkan oleh dua pelajar dari Fakulti Kejuruteraan Elektrikal UiTM di Jepun iaitu Muhammad Hasif Azami dan Syazana Basyirah Mohamad Zaki hasil jalinan kerjasama dengan Kyushu Institute of Technology (KyuTech), Jepun menerusi program Joint Global Multi-Nation Birds Satellite (Birds-2).

Dua pelajar UiTM itu antara 10 pelajar yang menjadi ahli kerjasama Birds-2 yang bertanggungjawab dalam

merealisasikan pelancaran yang sama dengan satelit nano Bhutan-1 dan Maya-1 yang dibangunkan oleh pelajar dari Bhutan dan Filipina.

Kejayaan pelancaran UiTMSat-1 turut meletakkan UiTM antara institusi pendidikan awam pertama di negara ini yang berjaya melancarkan satelit nano ke orbit dari ISS.

Projek tersebut bermula dengan perancangan misi satelit pada Disember 2016,

diikuti dengan mereka bentuk dan membina model satelit, menguji, memasang sebagai persediaan pelancaran dan menggerakkan satelit berkenaan.

Satelit itu dilancarkan ke orbit dari ISS kira-kira 5.45 petang waktu Malaysia pada 10 Ogos lalu dan acara tersebut dipancarkan secara langsung dari Agensi Eksplorasi Angkasa Lepas Jepun (JAXA).

UiTMSat-1 dilancarkan ke ISS pada 29 Jun lalu.

LAMPIRAN 9
THE SUN (SUNBIZ): MUKA SURAT 14
TARIKH: 25 SEPTEMBER 2018 (SELASA)

Nepal reinstates US\$2.5b hydropower deal with Chinese firm

KATHMANDU: Nepal has reinstated a deal with a Chinese state-owned company to build a US\$2.5 billion (RM10.33 billion) hydroelectric plant scrapped by the previous government, officials confirmed yesterday, as the new pro-Beijing administration seeks massive infrastructure investment.

The agreement with the China Gezhouba Group Corp (CGGC) to construct Nepal's largest hydro plant was abruptly cancelled by the outgoing government just weeks before a general election late last year.

"The decision to scrap the agreement with the Chinese company by the previous government was taken without any grounds," information minister Gokul Baskota told AFP.

"We decided to correct that, because

Nepal doesn't have the capacity to build such a big project and funding is also challenging."

The long-mooted 1,200 megawatt Budhi-Gandaki plant would nearly double Nepal's hydropower production. The impoverished landlocked country suffers chronic energy shortages and is forced to buy electricity from neighbouring India.

Beijing has been lobbying the new Communist government in Kathmandu to restore the contract since it took office in February, Baskota said.

Nepal wants the project to be part of the Belt and Road Initiative, China's massive infrastructure drive at the centre of the Asian giant's push to expand its global influence. Nepal signed up to the plan in May 2017.

Critics say the contract should have been open for international bidding.

Awarding such a lucrative contract in an opaque manner risked inflating the cost of the project "leading to a heavy national debt burden", tweeted former finance minister Ram Sharan Mahat.

Water-rich Nepal has a mountain river system that could make it an energy-producing powerhouse, but failure to develop its hydropower sector has weighed heavily on its economy.

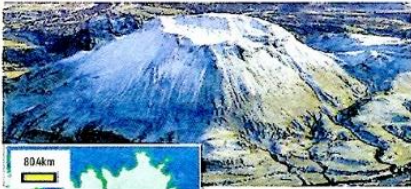
Nepal has awarded contracts for its mega hydropower projects to its two giant neighbours, rivals India and China, but construction has been slow.

Construction finally began on the US\$1.4 billion India-backed Arun Three hydropower plant earlier this year, 26 years after it was first proposed.

LAMPIRAN 10
BERITA HARIAN (DUNIA): MUKA SURAT 71
TARIKH: 25 SEPTEMBER 2018 (SELASA)

SUMBER SEGALA KUASA

Katla: Ancaman terbaru



Lapisan tebal ais di Katla bermakna tekanan semakin memuncak, meningkatkan risiko letusan

Anatomi Gunung Berapi

Dua kepingan tektonik ditarik secara beransur-ansur, lalu menolak batu lebur ke arah permukaan bumi



Tefra
Lahar
Saluran
Kepingan tektonik
Magma (batu lebur): Suhu boleh mencecah sehingga 1,300 darjah celsius

MEI 2010
di Eyjafjallajökull:
Letusan debu gunung berapi mengakibatkan 100,000 penerbangan dibatalkan



Jauh di dasar glasier di Iceland, berlaku pergolakan besar dikenali penduduk tempatan sebagai 'ahli sihir' yang sedang mengumpul kekuatan untuk melepaskan kemarahannya di seluruh utara Eropah"

Pakar glasier

BH DUNIA

Katla ancam Eropah

➔ Diramal musnah kawasan penempatan, sistem perhubungan

► Reykjavik

Eyjafjallajökull bakal terjejas

Menurut pakar, jauh di dasar glasier di Iceland, berlaku pergolakan besar yang dikenali penduduk tempatan sebagai 'ahli sihir' yang sedang mengumpul kekuatan untuk melepaskan kemarahannya di seluruh utara Eropah.

Mereka bimbang jika gunung berapi Katla meletus, kesannya bakal menjatuhkan jirannya, Eyjafjallajökull yang meletus pada 2010, melepaskan debu hingga menyebabkan lebih 100,000 penerbangan dibatalkan.

Pembatalan itu adalah penutupan kawalan trafik komersial terbesar sejak Perang Dunia II, menyebabkan jutaan penumpang terkandas di seluruh utara Eropah pada pertengahan April dan Mei tahun itu.

Ramalan bencana alam ini adalah berdasarkan kepada letusan dari sistem gunung berapi Laki pada 1783, yang terletak kira-kira 48 kilometer ke barat laut Katla.

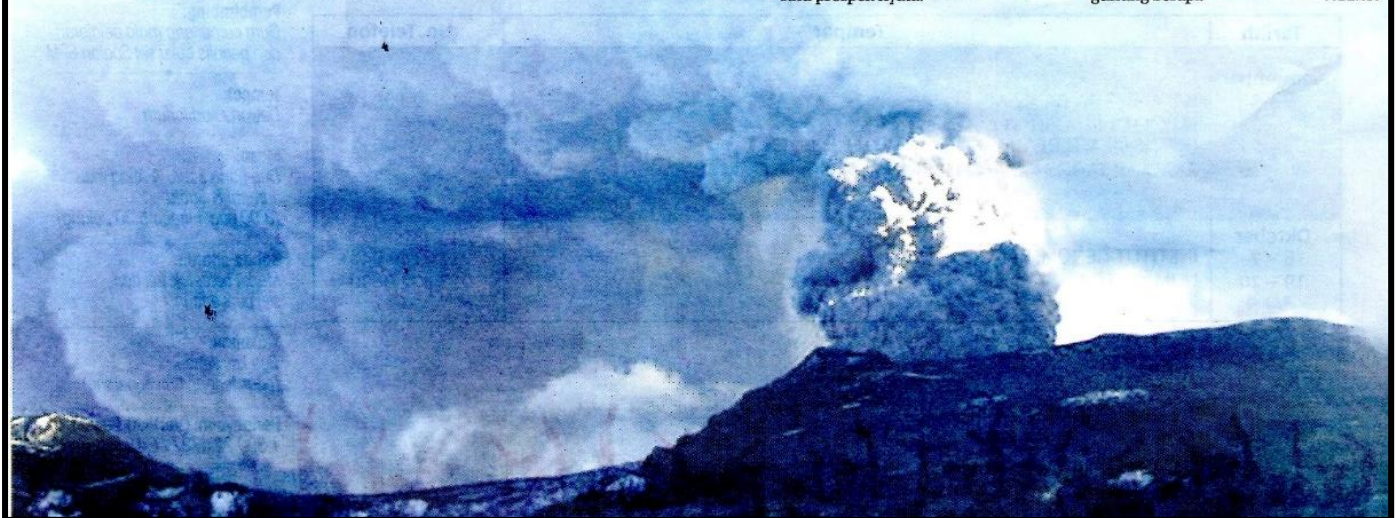
Pada masa sama, letusan itu mengorbankan satu per lima daripada penduduk Iceland dan membentuk awan debu hingga mengaburkan sinaran cahaya di seluruh Hemisfera Utara untuk tempoh beberapa bulan, selain mengakibatkan suhu turun sebanyak tiga darjah celsius.

Kali terakhir Katla meletus adalah 100 tahun lalu, ketika ia memuntahkan lima kali ganda jumlah debu ke udara berbanding Eyjafjallajökull pada 2010.

Laman web DailyMail melaporkan, keadaan itu menyebabkan pakar tempatan mengeluarkan amaran kerana ia menunjukkan aktiviti yang aktif, mula membebaskan gas karbon dioksida ke atmosfera pada skala yang besar.

Ia adalah satu petunjuk ia bakal meletus kerana memberikan isyarat magma sedang dibentuk di dalam gunung berapi.

AGENSI



LAMPIRAN 11
UTUSAN MALAYSIA (LUAR NEGARA): MUKA SURAT 50
TARIKH: 25 SEPTEMBER 2018 (SELASA)



Tukun tayar punca pencemaran

ANAK kapal Ocea mengambil bahagian dalam operasi mengeluarkan tayar dari Laut Mediterranean baru-baru ini. - AFP



■ **PARIS 24 SEPT.**

PASUKAN penyelam di Perancis mengeluarkan tukun tiruan yang diperbuat daripada puluhan ribu tayar kereta terpakai dari dasar laut di perairan selatan Perancis selepas didapati menyebar pencemaran daripada bahan kimia toksik.

BBC melaporkan, operasi di projek tukun tiruan yang gagal itu menelan kos sebanyak AS\$1.1 juta (RM4.5 juta) dan sebahagiannya dibiayai pengeluaran tayar terkemuka, Michelin dan kerajaan Perancis.

Pasukan penyelam itu disokong oleh sebuah bot yang dilengkapi kelengkapan mengangkat tayar terbabit.

Jurucakap persatuan nelayan tempatan, Denis Genovese berkata, hanya beberapa jenis spesies ikan berenang berhampiran tukun tiruan itu ketika tidak ada betul-betul spesies ikan yang dapat menyesuaikan diri dengan tukun terbabit.

Tukun itu dilihat sebagai penyelesaian berganda terhadap masalah pelupusan tayar lama di samping mewujudkan habitat hidupan marin selain menggalakkan pertumbuhan organisma marin hidup pada getah.

Pada 1980-an, pihak berkuasa tempatan bersetuju sebanyak 25,000 tayar dijadikan sebagai tukun tiruan ke dalam perairan 500 meter dari pantai antara Cannes dan Antibes, di French Riviera.

Penyelidik pada 2005 men-

dapati tayar mengakibatkan kebocoran bahan kimia termasuk logam berat dan mendatangkan risiko kepada kehidupan manusia.

Antara isu lain yang didokumentasikan adalah susunan tayar di dasar laut boleh runtuh atau hancur sekali gus mengganggu kehidupan di kawasan itu.

Sebanyak 25,000 tayar dikeluarkan pada 2015, dengan 10,000 lagi tayar akan dikeluarkan pada minggu-minggu seterusnya dan lebih banyak tahun depan.

LAMPIRAN 12
UTUSAN MALAYSIA (LUAR NEGARA): MUKA SURAT 51
TARIKH: 25 SEPTEMBER 2018 (SELASA)

OKU kendali kafe guna pelayan robot

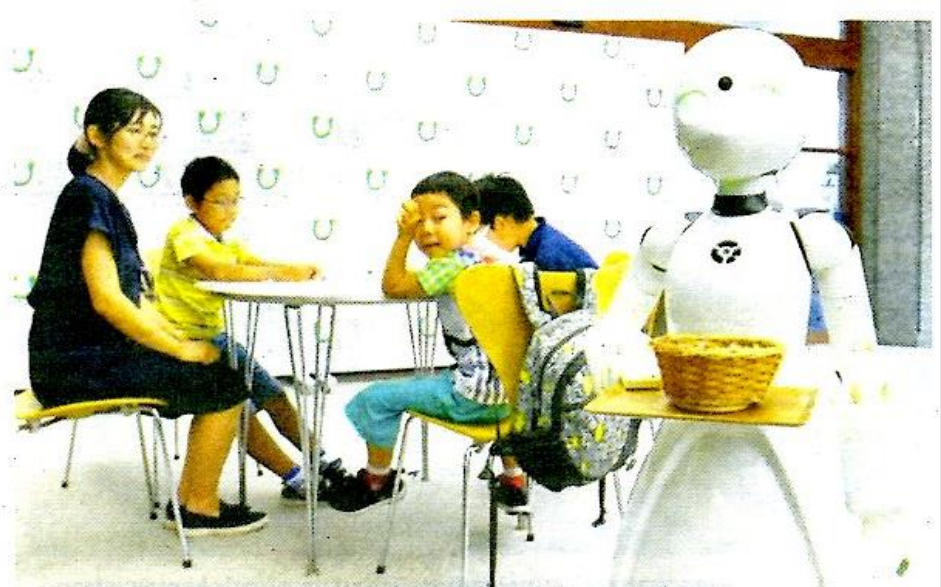
TOKYO 24 Sept. - Sebuah kafe yang bakal dibuka di daerah Akasaka pada November ini akan menampilkan pelayan robot yang dikawal dari rumah oleh golongan orang kurang upaya (OKU).

Lapor *Kyodo News*, kafe terabit akan dibuka pada Isnin hingga Jumaat dari 26 November hingga 7 Disember.

Kafe itu akan menggunakan robot model OriHime-D, dikawal oleh golongan OKU yang menghidap *amyotrophic lateral sclerosis* (ALS), sejenis penyakit neuron motor yang menyerang saraf pengawal pergerakan.

Robot tersebut yang mempunyai ketinggian 1.2 meter dan seberat 20 kilogram akan menghantar rakaman video serta audio menerusi internet, membolehkannya dikawal secara terus dari rumah dengan menggunakan tablet dan komputer.

Ketika acara pengenalan OriHime-D pada Ogos lalu, robot yang dikawal oleh pesakit *autophagic vacuolar myopathy* iaitu Nozomi Murata, berta nyakan kepada sebuah keluarga mengenai menu makanan.



ROBOT OriHime-D boleh dikawal secara terus dari rumah menggunakan tablet atau komputer. - AGENSI

“Saya mahu membina sebuah dunia untuk golongan yang tidak boleh menggerakkan tubuh badannya supaya boleh bekerja,” kata Ketua Pegawai Eksekutif Ory Lab Inc., Kentaro Yoshifuji.

Yoshifuji mengalami penyakit yang disebabkan oleh tekanan semasa kanak-kanak dan mengalami kesukaran berkomunikasi.

Ekoran pengalamannya pernah disisihkan, dia mula membangunkan robot di Universiti Waseda untuk membantu menghubungkan orang ramai.

Ory Lab Inc. berhasrat untuk menubuhkan sebuah kafe yang kekal menampilkan robot OriHime dan meningkatkan penggunaannya oleh syarikat-syarikat menjelang Sukan Olimpik Tokyo dan Paralimpik 2020.