

**KERATAN AKHBAR-AKHBAR TEMPATAN**  
**TARIKH: 17 APRIL 2017 (ISNIN)**

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DIGITAL technology has changed the industrial and manufacturing world. The convergence of the Internet of Things, Artificial Intelligence and robots, among other technologies, has enabled smart factories and the quantum leap into Industry 4.0.

As Malaysia braces for her own transformation in manufacturing, various ministries and government agencies are paving the way to establish a foundation that will push the nation toward a technology-driven economy based on the progressive ideals of Industry 4.0.

Their collective effort is all-encompassing and cuts through all socio-economic borders.

"To remain competitive, we have to embrace new technology such as automation. Industry 4.0 will be a total transformation of the economy. Whether one chooses to embrace it or not, it is inevitable. We need to organise ourselves to participate in and make plans for it," says Minister of Science, Technology and Innovation (Mosti) Datuk Seri Wilfred Madius Tangau.

According to Madius, all government ministries and agencies have been tasked to identify their own niche and roles in ensuring the success of Industry 4.0 in Malaysia.

"For Mosti, we are leveraging on our niche in science and technology and will try to introduce our efforts to the industry. Sirim, one of our agencies, is leading this move," he adds.

Over the past two years, Sirim has been focused on meeting the needs of the industry through a collaborative programme with Germany's renowned Fraunhofer Institute.

Fraunhofer is one of the most successful institutes in the world in assisting German SMEs in embracing research and technology and in the process, become world-class companies.

Under the Sirim Fraunhofer Programme, the Sirim Industrial Innovation Model was implemented to assist local SMEs in embracing technology processes and technological management to increase productivity and competitiveness. This would lead to more global champions.

Over 500 SMEs have benefitted from this programme through technology audits, innovation management workshops and industry network groups.

Nonetheless, Madius acknowledges that there are challenges to implementing Industry 4.0 in Malaysia.

"The first challenge would be in the training of talent for the new economy. We have to relook into the learning methodologies and the pedagogy for creating the talent for this new era.

"The human resources manager of the new economy must be someone who is agile or adaptable. Talents must be re-trainable to adjust to changing job and economic landscapes," he says.

**Move forward:**  
Madius encourages SMEs to adopt new technologies to grow.



## TAKING ON OPPORTUNITIES OF INDUSTRY 4.0

SMEs urged to embrace new technologies to gain a competitive advantage



**Increased productivity:** The Sirim Fraunhofer Programme is expected to help local SMEs through technology upgrade and technological management.

Additionally, convincing parents to encourage their children to take up science and mathematics is an uphill task, he says.

"As of now, only an estimated 20% of students are taking up these subjects. In an Industry 4.0 economy, mathematics and disciplines such as algorithm and coding are crucial for the development of the right talent," he says.

Another challenge is to transform Malaysia's economy from being a

consumer of technology to a producer of it.

There is a need for collaboration to develop technology for Industry 4.0.

Obtaining the right certification and meeting standards will also be crucial in a virtual economy.

"As we transform ourselves into this new economy, everything else will be transformed such as security.

"This new initiative will also present new service opportunities for Sirim, such as training in the implementation of cyber-defender technology. In the next three years, we have set a target to produce 10,000 certified cyber-defenders," he says.

Another challenge for the Government in taking on Industry 4.0 is changing the mindsets of the industry.

Madius notes that some of its efforts have been met with scepticism.

"We recently tabled the National Space Policy.

"Unfortunately, this was met with resistance from certain quarters. They have questioned the wisdom of pursuing this agenda, pointing out that there should be more efforts to tackle more 'down-to-earth' issues.

"What they don't understand or realise is that we are increasingly using everyday products that are the result of space technology such as smartphones.

"Some say the Government

should focus on building better roads. But the construction of roads can benefit from space technology.

Just imagine, with the use of satellites, the builder does not even need to be physically at the site as most tasks can be completed by using mobile devices to survey and map out the area for the eventual building of the said road," he explains.

New technology can help manufacturers be more cost-effective, efficient and produce products of better quality, he emphasises.

While many people have expressed concerns that the Government is abandoning traditional agricultural and natural resources industries, Madius counters that new technology will enhance the industry.

"An ongoing issue in the industry is the shortage of foreign workers. The solution to this is to embrace automation.

"For example, there are efforts being carried out to produce a mechanical harvester for the oil palm fruits," he says.

Madius urges SMEs to adopt new technologies to grow at the risk of remaining stagnant.

He notes that Malaysia has seen a number of innovative individuals who are moving in the direction of Industry 4.0 and are benefiting from it, particularly in the tech start-up sector.

"Some of the richest people in the world have fully embraced

Industry 4.0. These are the people who are literally making money in their sleep.

"In this country, there is a good example of innovative individuals who are moving in the direction of Industry 4.0. There is an individual who has developed an app that enables people to get their meals delivered to their doorstep.

"They have various restaurants as part of this network where individuals can order food online from an establishment and it gets delivered to the customer's location," he relates.

Nonetheless, companies should also obtain the necessary certifications and adhere to standards to ensure the quality of their products and services.

With the right quality, manufacturers will be able to build better rapport with consumers and penetrate new markets locally and internationally.

"There should be trust and confidence in bodies such as Sirim to assist them in improving the way a company does things, to embrace new technologies and to pave the way to bigger and further markets for their goods and services," he says.

At the end of the day, it's all about keeping it simple for individuals or companies to innovate and for ideas for new services and products to flourish, and this can be facilitated via the support and expertise from agencies such as Sirim.

## MOSTI fokus cabaran menerusi STI

**K**EMENTERIAN Sains, Teknologi dan Inovasi (MOSTI) bertekad untuk memberi fokus kepada cabaran negara dengan mencari jalan penyelesaian menerusi sains, teknologi dan inovasi (STI) dan pada masa sama, memberi komitmen terhadap penghasilan inovasi yang mampu menyelesaikan masalah industri dan komuniti agar semua pihak boleh menikmatinya.

Menterinya, **Datuk Madius Tangau**

berkata, MOSTI juga melaksanakan inisiatif mengadakan sesi perbincangan Meja Bulat *Innovators Dynamic* yang dipengerusikan oleh beliau bertujuan mengenal pasti kaedah dalam mengaplikasikan teknologi bagi mengatasi isu berkaitan industri utama negara seperti isu penorehan pokok getah.

Berucap dalam Perhimpunan Bulanan MOSTI di Putrajaya baru-baru ini, beliau turut menyatakan komitmennya dalam menerajui dua tema utama aspirasi TN50 iaitu sebagai peneraju idea pelbagai bentuk ekonomi terkini dan masyarakat yang saling terangkai, inovatif juga teradaptasi kepada teknologi baharu.

"Dalam usaha ke arah negara maju, agenda membangunkan STI akan terus dipergiat bagi memacu pembangunan ekonomi negara.

"Sehubungan itu, MOSTI juga akan memberi tumpuan kepada Peranti Internet Saling Berhubungan (IoT), Data Besar (*Big Data*), kepintaran buatan (*artificial intelligent*) dan seumpamanya bagi menghadapi Revolusi Industri 4.0," ujarnya.

Kata beliau, menurut Forum Ekonomi Dunia (WEF), adalah dijangkakan sebanyak 65 peratus

daripada kanak-kanak yang masuk ke sekolah rendah pada hari ini akan bekerja dalam bidang pekerjaan yang baharu berlandaskan sains, teknologi, kejuruteraan dan matematik (STEM).

STEM juga telah dikenal pasti sebagai bidang yang akan membentuk modal insan

negara untuk memenuhi permintaan kerjaya masa depan dalam menghadapi Revolusi Industri 4.0.

Dalam pada itu, mengulas mengenai kemudahan dan kepakaran tempatan dalam membantu menyelesaikan isu-isu tertentu dalam negara seperti isu pembunuhan

warga Korea Utara baru-baru ini, beliau berkata, sumbangan jabatan atau agensi MOSTI seperti Jabatan Kimia dan Lembaga Pelesenan Tenaga Atom diperakui dan diiktiraf.

"Ini turut menjelaskan bahawa sains adalah suatu keperluan dan elemen yang sangat penting dalam kehidupan," ujar beliau lagi.

Dalam ucapannya juga, beliau menekankan bahawa tahun 2017 ini akan menjadi Tahun Penyampaian yang berjaya sekiranya kerangka pemikiran warga MOSTI fokus kepada penyampaian perkhidmatan, usaha, latihan, penambahan nilai dan segala-galanya untuk kebajikan rakyat.

Dalam majlis yang sama, Kempen #MyViralVow sempena Safer Internet Day dengan warga MOSTI dilancarkan untuk memberi kesedaran kepada pengguna Internet tentang perlunya tanggungjawab dan etika ketika berkongsi sesuatu maklumat serta visual yang dilakukan secara dalam talian melalui aktiviti tular dalam talian atau *online viral*.



MADIUS TANGAU

KERATAN AKHBAR  
HARIAN METRO (BISNES) : MUKA SURAT 44  
TARIKH : 17 APRIL 2017 (ISNIN)

**S**IRIM Berhad (SIRIM) sebagai institusi penyelidikan perindustrian sentiasa menjadi pemangkin dan pembuka jalan kepada usahawan perusahaan kecil dan sederhana (PKS), tempatan dalam membangunkan inovasi dan teknologi bagi mengukuhkan lagi ekonomi negara.

Sebagai institusi penyelidikan perindustrian, SIRIM menyediakan pelbagai latihan dan program dalam bidang penyelidikan dan pembangunan (R&D) yang berterusan sehingga produk serta inovasi usahawan berjaya dikomersialkan.

Menyedari kepentingan PKS yang menyumbang hampir 95 peratus kepada Keluaran Dalam Negara Kasar (KDNK), SIRIM mengambil inisiatif melalui kerjasama strategik dengan Fraunhofer Institute bagi membantu usahawan PKS menjadi peneraju ekonomi yang mampan dan berdaya maju.

Ikuti temu bual wartawan Bisnes Metro NABIL BASARUDDIN bersama Jurupendinding Utama Sekretariat SIRIM Fraunhofer Nor Azlan Mohd Ramli mengenai inisiatif yang dilaksanakan SIRIM dan kerjasama dengan Fraunhofer.

**Apakah sebenarnya kerjasama antara SIRIM dan Fraunhofer Institute ini?**

SIRIM Fraunhofer adalah program kerjasama dengan Fraunhofer Institute yang berpangkalan di Jerman di mana usaha sama ini membolehkan SIRIM membantu usahawan untuk meningkatkan keupayaan pengurusan teknologi dalam kalangan PKS.

Fraunhofer Institute dipilih dalam inisiatif ini kerana ia antara institusi penyelidikan terbesar Eropah dan memiliki rekod pencapaian cemerlang dalam pelbagai

## Audit teknologi PKS

■ Kerjasama SIRIM-Fraunhofer Institute pastikan produk tempatan dapat pasaran dunia



katkan produktiviti dan keupayaan teknologi masing-masing.

Intervensi teknologi adalah melalui penambahbaikan kepada susun atur kilang, peningkatan teknologi dalam proses pengeluaran serta peningkatan dalam keupayaan reka bentuk.

**S: Apakah kelebihan program ini dalam mewujudkan ekosistem PKS yang lebih kukuh dan berdaya saing?**

Apa yang kita lihat audit teknologi adalah fokus utama di mana ia berperanan dalam mempersiapkan syarikat dan usahawan PKS untuk memahami kekuatan serta kelemahan masing-masing sebelum memulakan proses memperkukuh potensi perniagaan dan program bimbingan.

Program ini turut menitikberatkan aktiviti seperti bengkel pengurusan inovasi dan latihan untuk pensijilan serta amalan baik di mana ia elemen penting untuk diperbaiki oleh PKS.

Malah, melalui program ini juga, syarikat PKS dapat meningkatkan kecekapan buruh secara sistematik dan berjaya mengoptimalkan susun atur pengeluaran untuk meningkatkan produktiviti serta menganalisis penggunaan bahan dan memperkenalkan langkah untuk menjimatkan bahan.

Pengurusan kebanyakan PKS turut mengambil usaha untuk menghadiri pameran dan persidangan perdagangan serta menggunakan pembabitannya mereka dalam persatuan industri untuk mengenal pasti trend teknologi dan idea.

pengurusan teknologi serta inovasi bukan saja di Jerman, malah di seluruh dunia.

Semua usaha ini adalah inisiatif kerajaan melalui SIRIM bagi melonjakkan peningkatan penembusan teknologi dan menaik taraf PKS melalui Model Inovasi Perindustrian melalui adaptasi prinsip Model Fraunhofer.

Melalui program SIRIM Fraunhofer ini, apakah penekanan yang diberikan dalam membangunkan PKS yang berdaya maju?

Program ini mula dilaksanakan sejak 2015 dengan jangkaan sasaran sehingga 2020. Modus operandi terbahagi kepada empat prog-

ram membabitkan audit teknologi, kaji selidik PKS, bengkel pengurusan inovasi dan kriteria penubuhan Pusat Inovasi Industri (ICI).

Dalam semua program yang disediakan, segmen audit teknologi adalah teras utama yang penting untuk diberikan perhatian kerana ia merangkumi sebagai asas dan permulaan sebelum sebarang langkah intervensi dilakukan.

Pengauditan teknologi penting bagi memastikan produk yang dihasilkan bukan sekadar boleh dijual di pasaran tempatan, malah berupaya melepasi garisan antarabangsa dan untuk ke-

arahan itu, SIRIM akan mem-

astikan produktiviti syarikat PKS sentiasa berterusan. Malah, sepanjang 2016 hingga 2017, kerajaan sudah memperuntukkan kira-kira RM50 juta dalam melancarkan program ini di mana pada 2017 saja, sebanyak RM20 juta diberikan.

**SIRIM Fraunhofer dilaksanakan sejak 2015, mungkin boleh kongsi perkembangan terkini program ini?**

SIRIM sehingga kini sudah melaksanakan audit teknologi terhadap 336 syarikat tempatan membabitkan 150 syarikat pada 2015 dan 186 syarikat pada tahun lalu dan tahun ini bakal menyaksikan 150 syarikat melalui proses

pengauditan.

Sebagai institut yang melaksanakan program ini, SIRIM akan melaksanakan audit berdasarkan kepada cadangan daripada persatuan industri dan atas permintaan usahawan PKS sendiri.

Antara sektor utama PKS yang akan diaudit termasuk makanan dan minuman, pemrosesan dan kejuruteraan, elektrik dan elektronik, sokongan kejuruteraan dan industri, plastik dan getah, teknologi perubatan dan kesihatan, minyak dan gas serta produk pengguna.

Hasil daripada pengauditan teknologi akan membantu PKS membentuk pelan tindakan bagi mening-

**KERATAN AKHBAR**  
**THE STAR (NATION) : MUKA SURAT 12**  
**TARIKH: 17 APRIL 2017 (ISNIN)**

**Seek MCMC's help to stop online drug pushers, Lam Thye tells agency**

**PETALING JAYA:** Seek help from the Malaysian Communications and Multimedia Commission (MCMC) and **CyberSecurity Malaysia** to stop drug traffickers operating online, says Tan Sri Lee Lam Thye.

The Malaysia Crime Prevention Foundation senior vice-chairman said the National Anti-Drugs Agency should seek the commission's expertise.

"The agency should hold discussions with MCMC and seek the help of CyberSecurity to address this issue.

"This is a serious concern because drug pushers are using new technology.

"Now, pushers are no longer at popular hangouts or on the streets. The entire landscape has changed," he said in an interview yesterday.

Lee also urged the authorities to be a step ahead and to think outside the box.

"They must gain the expertise and see how they can identify those involved and block them. Otherwise, the problem will become more serious," he added.

Lee was commenting on a report in *The Star* that traffickers were taking their business online and

hiring students as drug pushers.

The agency's enforcement and security director, Zainudin Abdullah, said traffickers were using social media to cut deals and would only deliver the drugs once details were finalised on messaging apps like WeChat and WhatsApp.

Facebook pages calling for the legalisation of ganja were also mushrooming.

Lee said Malaysia saw some 60 to 70 new drug addicts every day, adding that the Government must focus its resources on fighting the scourge as most crimes were related to drugs such as snatch thefts and house break-ins.

He also called on the Government to come up with a work programme for rehabilitated drug addicts to help them get back on their feet.

## TM's VADS partners CyberSecurity to thwart threats

**PETALING JAYA:** Telekom Malaysia Bhd's (TM) subsidiary VADS Bhd is partnering **CyberSecurity Malaysia**, an agency under the Ministry of Science, Technology and Innovation (Mosti), to strengthen the nation's effort in deflecting cyber threats.

In a joint statement last Friday, VADS said the partnership is to drive the nation's cyber security landscape by enhancing and creating diverse awareness on capacity building on cyber security across all market segments, including the government, small and medium enterprises (SMEs) and Malaysian consumers.

"Cyber crime is a real threat to our digital way of life. With the country embracing the digital economy, we recognise the importance of having a strategic partner to effectively combat the broadening range of cyber threats," CyberSecurity Malaysia chairman General (R) Tan Sri Mohd Azumi Mohamed said.

"This partnership with VADS is significant to ensure that continuous efforts to develop the country's team of cyber security professionals, and create a more secure and resilient cyber environment."

Through the five-year partnership, VADS is responsible for identifying target markets and promotion of CyberSecurity Malaysia's online courses via VADS Marketplace, a platform that is enabled by VADS Cloud eXchange.

It offers business owners and organisations a wide selection of innovative digital business solutions, which are convenient, user-friendly and enhances operational efficiency and business productivity.

CyberSecurity Malaysia is also responsible for developing various cyber security competency and capability training programmes and knowledge-sharing platforms for ICT professionals, through its Cyber Security Professional Development Programme.

CyberSecurity Malaysia is the country's cyber security specialist, which provides cyber security expertise and technical services to the public and private sectors, and the community.

## High cost of certification a deterrent for tyre retreaders

**PETALING JAYA:** High cost and lax enforcement in the past have deterred many tyre retreaders from getting the proper certification, said the Tyre Retreading Manufacturers Association of Malaysia.

"It costs between RM20,000 and RM30,000 to get the Sirim certification. Following that, you still need to incur costs to get your tyres tested by Sirim twice every year, as well as hire a quality-assurance officer to maintain your standard," said association president Chin Hong Meng.

He said he supported the initiative of government agencies in ensuring that retreaded tyres on the road are safe.

The Domestic Trade, Cooperatives and Consumerism Ministry held an operation to bust illegal tyre retreading operations in February.

Two factories in Selangor and Negri Sembilan were busted for producing retreaded tyres with fake Sirim certification.

The ministry, along with the Road Transport Department, the Malaysian Rubber Board and Sirim agreed recently that retreaded tyres must be labelled with its date of manufacture and must not be retreaded more than three times.

Last Thursday, Domestic Trade, Cooperatives and Consumerism Minister Datuk Seri Hamzah Zainudin said the ministry would carry out a review of the production standards of retreaded tyres for heavy vehicles.

"Even European countries have raised their production standards for retreaded tyres despite being in a cool climate zone. With the hot weather we have here, we also need to ensure that all our retreaded tyres are of high quality and compatible with the weather," he was quoted as saying in *Bernama*.

The ministry will also carry out an operation this month to identify licensed and unlicensed companies producing retreaded tyres.

"For licensed manufacturers found to have committed the offence, their licences will be suspended, while for unlicensed companies, they will be closed down," he said.

At present, there are 97 licensed companies producing retreaded tyres.

Malaysian Institute of Road Safety Research (Miros) said illegally retreaded tyres were dangerous because of their unpredictability.

"The MS244 (Sirim) standard is based on a number of other established ones such as the European Union standard. For tyres not in compliance with Sirim, the safety aspect and quality are questionable.

"There is no one who can say how the tyres were manufactured or whether they have been tested before being put in the market.

"Manufacturers can just '*tipu sini, tipu sana*' (cheat here and there) to save cost," said Miros' Crash Reconstruction Unit head Ahmad Noor Syukri Zainal Abidin.

Sirim-certified retreaded tyres would be put through vigorous stress testing and a monitoring process, to the point the tyres are declared as good as new ones.

In fact, manufacturers complying with the MS224-2005 Sirim standard are expected to give the same warranty as new tyres.

According to the Tyre Retreading Manufacturers Association of Malaysia, retreaded tyres must also meet the MS1394 standard, which is the same criteria used for new tyres.

"There will be two audits each year by both Sirim and the Malaysian Rubber Board (LGM) which will pick a random sample for testing.

"The tyres' endurance and performance must be equal to that of new tyres," said association president Chin Hong Meng.

He said the Sirim-compliant factories retread around two million tyres per year but he estimated there were twice as many illegally retreaded tyres in the market.

Sirim-approved retreaded tyres are labelled with a yellow sticker.