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21 AUG, 2019



CHARTING THE NATIONAL TECH AGENDA

New Straits Times, Malaysia

EYE ON THE FUTURE

CHARTING The National tech agenda

Malaysia is capable of producing worldclass technology solutions. MIMOS Bhd, the govt's research and development institute, is optimistic it can help with this. Its newly-appointed interim president and chief executive officer Emelia Matrahah shares her vision with IZWAN ISMAIL

INCE helming the coun-try's national applied re-search and development (R&D) centre, MIMOS Bhd, interim president and chief ex-ecutive officer Emelia Matrahah has only one thing on her mind bringing the applied R&D agency to greater heights, with technology innovations that drive industry transformation. She said MIMOS had a big role

to play in helping the nation move forward in technology.

"Since the establishment of the agency in 1985, a number of initiatives have been carried out to help Malaysia become a high-tech nation.

"Pioneer initiatives such as Jar-ing (Malaysia's first Internet service provider), National ICT Se-curity & Emergency Response Centre (later rebranded CyberSe-Centre (later rebranded Cyberse-curity Malaysia), MyNIC (admin-istrator of web addresses ending with .my in Malaysia), National IT Agenda (NITA) and Multime-dia Super Corridor." This was in the early days be-fore MIMOS moved into intellec-tual properties (Pb) patent pro-

tual properties (IPs), patent pro-duction and digital and softwaredefined solutions today.

To date, MIMOS has produced more than 2,000 IPs and com-mercialised half of them. Emelia started her career at Pricewaterhouse (M) Sdn Bhd be-

fore moving to a German multi-national manufacturer as an accountant. She then moved to Sa-pura Telecommunications Bhd as a business controller and iCIMB Sdn Bhd as chief financial officer. Emelia said her immediate plan

for MIMOS was to remain relevant to the national IT agenda, which was driving industry transforma-"Now, MIMOS is more visible

and closer to the industry. As a technology producer, we would like to have more interactions and engagements with the industry and put Malaysia on the world map of the best technology pro ducers.

"Back then, MIMOS researchers produced IPs as more of a culture, but later, the agency started to focus more on quality IPs that are

more relevant to the industry." MIMOS' IPs are used by the agency to come up with its own solutions and products or used by local companies or technology recipients like the small- and medium-sized enterprises (SMEs) and start-ups via partnerships to pro-

start-ups via partnerships to pro-duce complete products. "From 2011, we started mon-etising the technology we pro-duce. When we do IP and re-search and generate IPs, it cannot end there. There must be some-thing tangible. Our economy also wants us to start looking into earning something from the re-search that we do." In the long run, she said, MI-

In the long run, she said, MI-MOS would strengthen its network of technology recipients and strategic partners to create a consistent army of resellers and cor-

responding technology adopters. "We are also creating a sustainable business partner model where MIMOS will closely work with the industry to deliver more value to the government, indus-try, academia and rakyat. "We are always mindful that our endeavours serve a key role in encounting once and the form

generating economic growth for the nation, towards becoming a high-income nation, and this requires a mindset change within MIMOS to run like a nimble business rather than a government agency," Emelia said. "There will be a lot of commu-



nication with the people because MIMOS' operating structure is 70 per cent manpower as we pro-

"It's the brain that we really need to nurture. Sometimes, re-searchers are so passionate and we need to ensure there's guidance and aspiration linking them to stakeholders' and shareholders' needs.'

ENGAGING THE ACADEMIA

As an agency that promotes in-novation, MIMOS sees the importance of nurturing the younger generation so that they will become interested in science and

technology. "An agency like MIMOS won't

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be relevant if future leaders are not interested in exploring tech-nology and become techies. This is where our collaboration with is where our collaboration with universities come in, which is part of our CSR (corporate social responsibility) initiatives." To achieve this, MIMOS en-gages the Education Ministry on talent exchange programmes. "Key leaders in MIMOS are en-couraged to share their knowl-edge with universities through

edge with universities through edge with universities through curriculum recommendation and industrial placement so that students are ready when they go to the market. This will solve the pairing issue and ensure the in-dustry will have ready products." Currently, most public universities and some private ones are part of the programme. MIMOS also sends staff to teach at universities or have students go to

versities or have students go to the agency to learn. "We have signed some MoUs (memorandums of understand-ing), for example, with UNITAR on a data analytics programme." She said MIMOS had many technology platforms and uni-versities could use them. SEGI University for example is

versities could use them. SEGI University, for example, is experimenting with artificial in-telligence (AI). "Those who already have their first degree can do their intern-ships as research assistants here," Emelia said.

Emelia said. Besides that, MIMOS is also in-

volved in the government's SL1M (Skim Latihan 1Malaysia management trainee) programme, where the agency hires fresh graduates

the agency mires fresh graduates to work on its projects. "For example, now when we get projects from the government, one requirement is for us to hire a certain percentage of graduates for the project. This is how we give back to the nation."

TECH THAT MATTERS

Emelia said the next big thing that would affect the industry was Industry 4.0 technologies. These include AI, big data (extremely large data sets that can be anal-ysed computationally to reveal patterns, trends and associations,

especially relating to business and human behaviour), Internet of Things (a network of physical objects that have an IP address for Internet connectivity, which al-low them to communicate or con-nect with other Internet-enabled devices and systems), blockchain (the technology that underpins digital currency, like Bitcoin, Lite-coin and Ethereum, that allows digital information to be dis-tributed, but not copied), aug-mented reality (a technology that superimposes a computer-gener-ated image on a user's view of the real world), cybersecurity and smart manufacturing (a technol-ogy-driven approach that utilises especially relating to business ogy-driven approach that utilises Internet-connected machinery to

Internet-connected machinery to monitor the production process). Industry 4.0 is a new phase in the industrial revolution that fo-cuses heavily on interconnectiv-ity, automation, machine learn-ing and real-time data. "As the world embraces Indus-tries must be competitive and at least on a par with if not ahead of others in terms of innovation and use of technology," Emelia said. Under the 12th Malaysia Plan, MIMOS will look into big data, Internet of Things and analytics.

Internet of Things and analytics. "It's also a continuation of the preparation for transformation of future jobs. This is why it's very important for universities to plan their programmes and skillset training training.

their programmes and skillset training. "Whatever we do, it has to be aligned with that. It has to link with the government's aspira-tion, the industry and create job opportunities," Emelia said. Since the 10th Malaysia Plan, MIMOS has started putting its technology in places like the So-cial Security Organisation and Health Ministry, with solutions like data warehousing. "Besides that, our Al-based video analytics solution is used in police lock-ups. It monitors aggressive and suspicious be-haviours of detainees." MIMOS' recent developments include indoor location tracking, licence plate recognition, govern-ment corrieves like divisite iden

include indoor location tracking, licence plate recognition, govern-ment services like digital iden-tification and AI in capital mar-ket and accounting. MIMOS also established the Centre of AI for Future Industry with Microsoft last year, working with various universities in de-veloping AI, data science and other Industry 4.0 technologies.

INDUSTRY CHALLENGES

INDUSTRY CHALLENGES One key challenge faced by the industry today is R&D, which can take a long gestation period, in-volves high cost and often en-cumbered by uncertainties. "With MIMOS' R&D work, the local tech industry can focus on building and marketing their brand without having to invest a fortune in research," Emelia said. At the same time, she said, there was also a lot of re-export type of businesses.

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"We need to develop our SMEs not just as box sellers, but to have more domestic content, which means having more local prod-ucts and innovation in what we export. "Since MIMOS has a ready fa-cility, like the wafer foundry, we are looking into working with MI-TI (International Trade and In-dustry Ministry) to obtain some We need to develop our SMEs

It (international Trade and in-dustry Ministry) to obtain some grants to enhance the capability of the facility. "We allow SMEs to come to MI-MOS to test products, design IC (integrated circuit) or anything related so that they can bring their products to the market their products to the market

We do the facilitation and from "We do the facilitation and from there, we can do pairing with some grants, from which they can apply so that they can transform the technology into products." Another big challenge is find-ing industry-competent talent, which MIMOS has been address-ing for some time

which MIMOS has been address-ing for some time. "One challenge that should never be ignored is the emerging and unpredictable nature of tech-nology itself. There will be po-tential hazards and risks. The challenge is in balancing the risks and rewards," Emelia said. On comments that MIMOS was

On comments that MIMOS was competing with the industry, Emelia said this was a perception

Emelia said this was a perception that needed to change. "This came about when we par-ticipated in some projects from ministries and some industry players thought we are compet-ing. We are not. "Our technology being applied in ministry projects on industry

in ministry projects are industry-class and saves cost, so that the government doesn't have to spend more."

IIMOS IN 5 YEARS

MIMOS IN 5 YEARS MIMOS anticipates exponen-tial growth of its technology so-lutions for the country and sees the agency becoming a key driver of national development post-2020, as well as providing up-to-date global technology and the corresponding talent pool. Emelia said MIMOS would in-tensify efforts in transforming the industry and boosting the government delivery system. "Use of technology such as big data analytics and AI will en-hance strategising, efficiency of service delivery and reporting. "At the rate technology is ad-vancing, it is really hard to imag-ing where and how we would be

vancing, it is really hard to imag-ine where and how we would be in five years, but at MIMOS, our role is to contribute to the na-tion's digital transformation. "With solid support from MITI and close working relationships with other government agencies, industry and academia, we fore-see MIMOS' increasing relevance and contribution. and contribution.

and contribution. "In five years, we can't even guarantee the roadmap that we chart today will look the same. "It could be something we can't imagine today. We will always stay alert, armed and ready for possibilities."





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SUMMARIES

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