

NANOMALAYSIA BERHAD LAUNCHES REVOLUTIoNT UNDER 4IR POLICY

KUALA LUMPUR, 5th OF NOVEMBER 2021 – NanoMalaysia Berhad (NMB) today launched REVOLUTIoNT, an initiative under the National 4IR Policy that was recently introduced by the government. It is one of the policy's key pillars that focuses on nanotechnology and the development of The Internet of Nano Things (IoNT) products and applications to enhance solutions for various applications in food and agriculture; wellness; medical and healthcare; electronic devices and systems; and energy and the environment, thus, providing the platform for low carbon innovations. The virtual launch was officiated by the Minister of Science, Technology and Innovation, Yang Berhormat Dato' Sri Dr Adham bin Baba.

The objective is to seamlessly link, improve and digitalise NMB's existing projects while paving the way for future innovations – resulting in a convergence of technologies to create a cohesive and well-connected IoNT ecosystem. This will give rise to nanotechnology powered global solutions towards improved performances and efficiencies that align to Sustainable Development Goals (SDG) while scaling up Malaysian small to medium enterprises (SMEs). The programme aims to develop 41 market-driven Intellectual Properties (IP) and create or technologically assist up to 50 local companies to venture into new market opportunities within the span of five years.

YB Dato' Sri Dr Adham bin Baba said: "The government fully supports the National 4IR Policy with NMB as one of its implementors to ensure that Malaysian SMEs remain competitive in the face of disruptive technologies and innovations. The pandemic has impacted our economy greatly but 4IR brings with it market opportunities estimated to be RM205.5 billion in 2025 and an increased 30 per cent in productivity across all sectors by 2030. Initiatives such as REVOLUTIoNT will enable us to harness its benefits and the full potential of 4IR."

As Malaysia's leading agency for nanotechnology commercialisation and industrialisation via a venture builder model linking industry, universities and society, NMB has been granted a government budget of RM50 million for 2021 – 2025 under the 12th Malaysia Plan (RMK-12). Under this programme, it has already activated five new projects – achieving its Key Performance Indicators (KPI) for 2021.

The other highlighted projects under this initiative will be further developed to form a comprehensive IoNT network with potential opportunities to pivot into strategic sectors that will generate additional revenue for SMEs. These are existing projects that were developed by NMB and their suite of SME partners and are currently in the commercialisation phase. They include IoNT-equipped drones powered by onboard generator hydrogen fuel cell; NanoMalaysia Autonomous Vehicle Initiative (NAVi); Hydrogen-Paired Electric Race Car; Nano-Grid Decentralized Power Supply System; an electric scooter; contactless and wireless safe



radio frequency (RF) charging system; Smart Urban Farming kit and graphene adoption products.

NMB's Chief Executive Officer, Dr Rezal Khairi Ahmad said: "Our portfolio of disruptive technologies will continue to grow with REVOLUTIoNT in our race to stay ahead of the curve. You can expect to see new solutions that include sensors, communication devices, new energy storage solutions for electric vehicles, and advanced materials for multi-sector applications. We believe this will help our SME landscape recover and thrive post-pandemic and aim to create up to 6,000 high value jobs over five years. It will also have a direct contribution to our Gross National Income (GNI) of RM2 billion and a minimum overall GNI contribution of RM24 billion through full market deployment and realisation of supply and value chain by 2025.

This will also drive us closer towards Malaysia's High-Tech Nation aspirations by 2030 – allowing us to both produce and export high-tech to other countries. Additionally, the solutions that we have and will develop can be used to support the Smart City Framework that was rolled out by the Ministry of Housing and Local Government (KPKT) – which advocates using technological advances to address urban issues."

He adds that an exciting upcoming project under REVOLUTIoNT will be turning buses in the Klang Valley into electric buses – aligning to the Low Carbon Mobility Blueprint and serving as an impetus to Malaysia's Electric Vehicles aspirations. To that end, NMB is working closely with Jabatan Pengangkutan Jalan Malaysia (JPJ) as well as bus builders. Upon successful deployment, there are plans in place to expand to Johor Bahru and Kuching.

About NanoMalaysia Berhad

NanoMalaysia Berhad was incorporated in 2011 as a company limited by guarantee (CLBG) under the Ministry of Science, Technology and Innovation (MOSTI) to act as a business entity entrusted with nanotechnology commercialisation and industrialisation activities through a venture builder model. Nanotechnology continues to provide efficient and enhanced solutions to various applications in smart living, smart manufacturing, agriculture, electronic devices, and energy and environment. NanoMalaysia believes that the "Internet of Nano-Things" or IoNT, will be the core driver of the 4th Industrial Revolution, catalysing revolutionary changes in the industry, business and society.

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