



For Immediate Release

FLURRY OF MIMOS LED RESEARCH TO MOVE INTO COMMERCIALISATION PHASE

MIMOS technology innovations set to impact lives and transform the world

Port Dickson, 20 November 2008 – MIMOS, the premier applied research centre in frontier technologies, has been researching and developing a number of technology innovations which are now ready to be transferred to the relevant indigenous industries for commercialisation.

“MIMOS provides an ideal and fertile soil for our world-class researchers to innovate. To us, research is only successful when it finds a place in the market,” said MIMOS’ President & Chief Executive, Dato’ Abdul Wahab Abdullah. “As such, the focus at MIMOS for this year and beyond is to fully concentrate on technology transfer for commercialisation -- we are creating a funnel of innovative technology to push to our indigenous industries.”

“You will soon start to see more of MIMOS’ innovations impacting millions of lives and transforming the world,” added Dato’ Wahab.

These ready-for-commercialisation MIMOS technology platforms were developed at MIMOS labs under six frontier technology clusters, namely -- Information Security; Wireless Communications; Knowledge Technology; Micro and Nano; Grid Computing; and Advanced Informatics -- in line with MIMOS commitment to grow globally competitive indigenous industries.

“The response to our technology platforms has been overwhelming. There are currently 77 technology transfer applications from among our home-grown businesses and the number is increasing. Of that, about 70 per cent are interested in taking up the MIMOS Semantic Technology Platform,” Dato Wahab said.

Commercialisation of MIMOS Semantic Technology Platform

The MIMOS Semantic Technology Platform, designed and developed by the Semantic Technology Center in MIMOS, aims to enhance the use of ontology and semantic Web technologies to automate the collection, modelling, organisation and retrieval of knowledge.

For example, In-Fusion Sdn Bhd and Infovalley Sdn Bhd are currently working on a medical semantic application proof-of-concept.

“The adoption rate of Semantic Technology is overwhelming and the man on the street will start to realise its value when the indigenous industries begin to adopt MIMOS Semantic Technology Platform which is applicable across all verticals”, said Dr Dickson Lukose, Head, Knowledge Technology Cluster, MIMOS.



Commercialisation of MIMOS MEMS Technology Platform

MIMOS applied research in MEMS involves exploring microfluidics and complementary metal-oxide-semiconductor (CMOS) sensing technologies for developing MEMS-based applications and solutions.

MIMOS and Felda Agriculture are collaborating to adopt the MIMOS' MEMS sensor in oil palm plantations to help farmers with their seeding process. MIMOS' precision agriculture technology last year earned the Frost & Sullivan Growth Excellence Award, and MIMOS was also named Industry Innovation & Advancement (Precision Agriculture) R&D Organisation of the Year 2007.

"MIMOS' Micro & Nano Cluster has managed to develop precision agriculture technology that is aimed at improving quality of life of farmers by improving yields," said Prof Dr Masuri Othman, Head, Micro-Nano Cluster, MIMOS. "During our recent participation at the Malaysia Agriculture, Horticulture and Agrotourism Exhibition 2008 (MAHA 2008) exhibition, we had managed to draw in 5000 visitors while fostering interested partners to adopt the sensor technology."

Commercialisation of MIMOS Wireless Communications Technology Platform

"MIMOS Wireless Communications Technology Platform is aimed at bridging the digital divide by integrating the last mile to the main line to create hotspots in the rural areas using our WiWi (WiMAX & WiFi) technology," said Dr Mazlan Abbas, Head, Wireless Communications Cluster, MIMOS. "We have identified Packet One Networks (P1) as a technology recipient for WiWi which will enable P1 to provide a comprehensive broadband coverage with seamless communication and at a cheaper cost that can easily be deployed."

MIMOS is also working with Taiwan to drive WiMAX adoption in Asia Pacific.

Commercialisation of MIMOS Grid Computing Technology Platform

KnowledgeGRID Malaysia is aimed at providing a national infrastructure that maximises high performance computing resources to accelerate research and industrial development for national wealth and value creation.

"Since the launch of the KnowledgeGrid Malaysia in August 2007, it has been successful in efforts to combine networked resources -- desktops, servers, storage, databases, and scientific instruments -- to form a massive repository of computing power which can be tapped wherever and whenever it is needed most. Furthermore we have successfully completed the "gridding" of MIMOS and local universities including -- Universiti Malaysia Terengganu (UMT), Universiti Teknologi Malaysia (UTM), International Islamic University Malaysia (IIUM) and Universiti Sains Malaysia (USM) this year," said Ng Kwang Ming, Senior Manager, Grid Computing, MIMOS.

The MIMOS run KnowledgeGrid Malaysia has also helped animation companies such as Les Copaque to handle the rendering for Malaysia's first full-length three-dimensional (3-D) animation movie *Geng: The Adventure Begins*.



Commercialisation of MIMOS Information Security Technology Platform

“Cloud computing has raised several privacy concerns surrounding data security as well as ownership and control of copyright material not only at a personal level but at a national level. Here at MIMOS, we are researching and developing a comprehensive holistic security approach technology through our ‘Ultimate Digital Fortress’ project which consist a defence in-depth (layer-by-layer protection) method to protect information at rest, in motion and in use,” said Prof Dr Mohamed Ridza Wahidin, Head, Information Security Cluster, MIMOS.

MIMOS is collaborating with several universities and government organisations in developing a foolproof trusted security platform to combat cyber attacks. MIMOS and the International Islamic University Malaysia (IIUM) has established the Centre of Excellence in Cyberspace security at the IIUM campus in Gombak.

Commercialisation of MIMOS Advanced Informatics Technology Platform

MIMOS Advanced Informatics cluster research and develops innovative techniques related to the processing and representation of information for practical problems with commercial potential. The cluster aims to develop technologies in the areas of image processing and pattern recognition as they relate to machine learning, statistics for machine intelligence and multi-constraint optimisation.

“Physical security will become a major element in the new economy as concerns for both human lives and assets become more important while conventional surveillance systems prove inadequate. MIMOS is developing a surveillance system that will ultimately provide behaviour analysis and personal identification via an image processing method,” said Dr Chandran Elamvazuthi, Head, Advance Informatics Cluster. “The ‘intelligent analysis and imaging’ system with real-time deployment will allow for faster danger recognition and enforcement response.”

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About MIMOS

MIMOS is Malaysia’s leading applied research organisation in information & communication technologies aimed at growing globally competitive indigenous industries.

MIMOS pursues exploratory and industry-driven applied research through multi-stakeholder smart partnerships with universities, research institutes, Government and industries with a focus on frontier technologies. MIMOS’ applied research areas, based on real-world trends, are cyber space security, encryption systems, grid computing & multi-service networks, wireless broadband, MEMS/NEMS systems, advanced informatics, knowledge technology and micro energy systems.

MIMOS is the recipient of Frost & Sullivan’s Industry Innovation & Advancement (Precision Agriculture) R&D Organisation of the Year Award 2007 for its application and development of Micro Electro Mechanical System (MEMS) in the field of precision agriculture.



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