MIMOS Ideation, Development and Application Toolbox for Sensors (Mi-IDEAS)

MIMOS Mi-IDEAS is an open innovation platform toolbox that can accelerate the development of sensor solutions, raise technical competency in wireless sensor network solutions and further spur the growth of IoT. Mi-IDEAS utilises MIMOS standard platforms to expedite sensor research, development and commercialisation.

Overview

MIMOS Mi-IDEAS is an **open innovation platform** toolbox that creates a convenient environment for customised device and sensor creation. It helps to expedite research, development and commercialisation activities through the use of MIMOS standard platforms.

Novel nanomaterial and processes can be incorporated onto the Mi-IDEAS platform to create high performance devices which can be integrated into an overall wireless sensor network solution.

Features

Mi-IDEAS comprises the following features:

■ Various Standard Platforms

The toolbox comes with various standard platforms based on IDE and FET devices that can be developed into various sensors. It also comes with a universal wireless communication interface.

■ Robust and Rugged Packaging

Its case is designed for ease of use in the lab and on-site analysis. The high mobility this provides allows Mi-IDEAS to be used virtually anywhere.

■ Real-Time Data Measurement

The integrated system displays data measurement in tabular and graphical formats to ease user analysis. This will also allow the final devices to be integrated into WNS infrastructures upon the commercialisation stage.

Technology Benefits

The main impacts of Mi-IDEAS are:

■ Cost-Effective R&D Setup

Sensor development can start immediately without having to make any major investment on equipment and tools for platform development.

■ Accelerated Development and Commercialisation

Development resources can be focused on more specialised and concentrated areas that will speed up sensor production and commercialisation.

■ Raised Technical Competency

Technology acquaintance and availability at a larger scale provided aid in raising human capital's technical competency in wireless sensor technology.

Technology Summary

Mi-IDEAS

An open innovation platform toolbox for customised sensor creation and device analytics.

Industries: Government, Agriculture, Aquaculture, Environment, Healthcare, Education

Features
- Various standard platforms
- Robust and rugged packaging
- Real-time data measurement

Technology Benefits
- Cost-effective R&D setup
- Accelerated development and commercialisation
- Increased technical competency

MIMOS Mi-IDEAS toolbox and management GUI

Sensors

Mi-IDEAS Sensors
ChemFET (Chemical Field-Effect Transistor)
IDE (Interdigitated Electrode) Impedance
IDE (Interdigitated Electrode) Amperometric
Reference Electrode
Unified Readout

Innovation for Life ™

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