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## Mimos, UniMAP in aquaculture venture

MIMOS and Universiti Malaysia Perlis (UniMAP) has teamed up to develop Micro-Electro-Mechanical Systems (MEMS) sensors for environmental monitoring in aquaculture.

The two parties yesterday signed a memorandum of agreement (MoA) to formalise the partnership.

The collaboration will see the development of MEMS sensors connected to the wireless sensor networks to promote the aquaculture sector by monitoring levels of water pollution such as nitrate, dissolved oxygen and ammonia and other by-products

of agriculture.

Under the agreement, Mimos and UniMAP will set up a Centre of Excellence (CoE) in the area in tandem with the Northern Corridor initiative in agriculture industry.

"Mimos' applied research in MEMS meets the emerging aquaculture sector needs of the market by developing cutting edge technology platforms, which offer simple solutions to complex aquaculture issues," said Mimos president and CEO Datuk Abdul Wahab Abdullah in a statement.

"MEMS today is already

revolutionising every product category by combining the best of semiconductors, microbiology, optics and high frequency wireless communications.

"We now bring the technology into a new domain of aquaculture," he added.

The collaboration with UniMAP complements Mimos' existing applied research in MEMS sensors.

Mimos applied research in MEMS, which is one of eight applied research areas, involves exploring microfluidics and complementary metal-oxide-semiconductor (CMOS) sensing technologies

for the development of MEMS-based applications and solutions.

The MEMS technology lab at Mimos is also currently working with Universiti Putra Malaysia in the area of sensor validity to build tacit knowledge for farming.

Mimos is also collaborating with Universiti Kebangsaan Malaysia in developing sensors for plantation and green house farming.

Mimos' collaboration with universities is part of its effort to assemble a team of virtual researchers and create domain experts in specific areas.