









27th - 30th APRIL 2014 **UNIVERSITI TEKNOLOGI MARA MALAYSIA** Bridging the valley of death: advancing the commercialisation of research

RESEARCH BOOK



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RESEARCH INNOVATION BUSINESS UNIT

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FOREWORD

he Honourable Minister of Science, Technology and Innovation (MOSTI) has launched 2014 as Malaysia Commercialisation Year 2014 (MCY2014) with the theme Science Technology and Innovation (STI) for Wealth Creation. In line with this theme, Invention, Innovation, Design & Exposition 2014 (iidex2014) is an annual exposition organized by UiTM and is the ultimate platform to highlight and commercialise new inventions and innovations. Researchers and inventors will exhibit their products which cater to the needs and wants of the community and the country.

The iidex2014 creates a new dimension by fusing two competitive concepts, a competition among innovative products and a competition to invite Innovateur Wannabes to perform live pitching of their products to the audience. The iidex2014 focuses on comprehensive commercialization and creating opportunities for entrepreneurs to carry out R&D as well as to provide avenue to commercialise their products. Through expositions such as iidex2014, MOSTI hopes to inculcate the culture of commercial is at ion of new technology designedand created by Malaysians.

I wish to congratulate all the participants of the iidex2014 and this is the opportunity for all researchers to show their ideas and exhibits their products and creativity. Apart from showcasing their products, innovators will have the opportunity to provide a window to the industry for business matching during the exposition.

Tan Sri Dato' Sri Sallehuddin Mohamed

Pro-Chancellor, Universiti Teknologi MARA

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AQUAOS: SPATIAL AQUACULTURE DECISION SUPPORT SYSTEM USING MULTI INTEGRATED OPEN **SOURCE GIS**

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The development of the Malaysian aquaculture industry has grown rapidly in recent years. The challenges faced by the industry are the use of expertise to manage and guide aqua culturist particularly in managing database and application of communication online between the government and the fishery community. The aim of the study is to develop a prototype of a novel system for Malaysian fishery or the aqua cultural community using multi techniques, datasets and open source GIS (AQuos). The AQuos Version 1.1 was initially created based on real local problem situation which was implemented in 4 main stages. Firstly, primary and secondary data were collected in Selangor and from other related organisations. Then, geodatabase, data processing and data exploration were conducted using multi integrated open sources GIS. The potential areas for suitable sites for aquaculture were also determined using MCDM techniques. Lastly, the AQuos web based system was designed and developed using Map Guide Software. This study found that the respondents from the related organisations agreed that the system was useful for local authorities and for efficient aquaculture database management and analysis.