









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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PORTABLE FLIP KEYS

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Portable flip keys with its cover made of from plastic and some metal. It can be easily flipped to choose the correct key to be used. It is also convenient and saves space and we can avoid from miss placing all the keys. It can be

customized such as choose the favourite colour for the cover. We can choose the design we want, small or big size. It can be made as key chain and looks neat and systematic in term of labelling the keys. It's easy for us to find the right keys that we need. By using this product, we hope that people will be interested to buy and recommend our

product to their family and friends.

BIKE SHARING SYSTEM

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The Bike Sharing System is basically a social service in which bikes are made available for shared use to individuals on a short term basis, free from any worries of ownership & maintenance. It offers subscription that makes the first 30 to 45 minutes very inexpensive, thus encouraging it to be used as a mode of daily transport. The Wuhan & Hangzhou Public Bike-Share program in China is a great example of bike sharing system at work in the real world. Bike Sharing Systems are divided into 2 categories "Smart Bike Programs" which are implemented by government agencies and "Community Bike Programs" which are organised mostly by local community groups or non-profit organizations. This study will focus on the latter, and will test the system out in universities and higher institutions of learning. This will provide us with the added advantage of a controlled environment. In addition, most universities have already provided the necessary infrastructure for the bike sharing system to be implemented. For example, pedestrian walk ways and bike lanes in University Putra Malaysia. The main idea of this system is to provide commuters with a free or affordable access to bikes for short distance trips in an urban area as an alternative to motorised public transport or private vehicles. As a result, reducing traffic congestion, noise, air pollution, release of green house gasses, improve health and fitness level of users and provides for a green and sustainable business. Furthermore, bike sharing schemes has been cited as one of the ways to solve the "last mile" problem and connect users to public transit networks. Public bike sharing system helps to address some primary disadvantages to bicycle ownership, such as theft, vandalism, lack of parking or storage and maintenance requirements. Users have been known to feel very liberated by its ease of use. By limiting the number of places where bikes can be rented or returned the service itself becomes a form of public transport. Nonetheless, these programs can be rather costly especially when they are conducted in a large scale by government agencies unless subsidised by businesses or commercial interest, typically in the form of advertising at bike stations or strategically placed on the bikes itself. Bike sharing systems have undergone lots of changes through time.