



UNIVERSITI
TEKNOLOGI
MARA

Universiti Melaka

V-MIEX

28 JUNE
06 JULY

2022

VIRTUAL-MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION

ROAD TO COMMERCIALISATION

V-MIEX BOOK



V - MIIEX BOOK

'ROAD TO COMMERCIALISATION'

EDITORS AND COMPILERS:

Dr. Nur Hayati Abd Rahman
Dr Syukri Abdullah
Wan Hasmat Wan Hasan
Aini Qamariah Mohd Yusof
Norazlan Anual
Dr. Khairunnisa Abd Samad
Nordianah Jusoh @ Hussain
Rozana Othman
Norlela Abas
Azira Rahim

COVER DESIGN:

Adi Hakim Talib

PUBLISHED BY:

Division of Research and Industrial Linkages
UiTM Cawangan Melaka
KM26 Jalan Lendu,
78000 Alor Gajah, Melaka
Tel: +606-5582094 / +0606-5582190 / +606-5582113
Email: miixuitm@gmail.com
Website: <https://www.miiex.my/>
ISBN: 978-967-2846-04-8

All right reserved. No parts of this publication may be produces, stored in retrieval system or transmitted in any form by any means, electronic, mechanical, photocopying, recording, or otherwise without permission of the copyright holder.

FOREWORD

ASSOC. PROF TS. DR MOHD RASDI ZAINI
Rector
Universiti Teknologi MARA (UiTM) Cawangan Melaka



Welcome to Virtual-Melaka International Intellectual Exposition 2022 (V-MIIEEX 2022). It is an honour for me on behalf of UiTM Melaka Branch to thank all of you for joining the programme and we are proud to inform you that this is the 12th year consecutively, UiTM Melaka Branch is organizing this exposition.

V-MIIEEX 2022 is a platform to improve the commercialization collaboration among industries and communities and at the same time, we also give the opportunity to academicians and students to share ideas and increase their potential innovation products with the industries and communities through their projects. This exposition also serves as a platform to cultivate and upload the nation's innovation culture by presenting new ideas and research by young people, especially from academia, universities, college, high schools, and primary school students.

The economy and development of the country faced a challenging phase in 2021 due to the Covid-19 pandemic. We faced changes in business, education, society, and lifestyle. However, the pandemic proved to be a blessing in disguise as it somehow gave people ideas which would be beneficial to improve their lifestyle and solve problems that might occur in the future. Besides, the new digital landscape also inspires more innovation and new ideas that contribute to various activities such as business and industries. As a university that encourages the "Research, Innovation and Commercialization", this exhibition is organized to encourage more commercialization of products that are beneficial to scholars, industries, and communities to tackle such issues to improve our present and future life.

Since 2009, UiTM Melaka Branch has successfully become the organizer for this innovation exposition. We are not only successful in organizing the exposition, but I would proudly say that we have also successfully embarked on commercialized products. With the number of participants for this year's exhibition, we believe that more commercialized products will be produced in line with the theme for this year, "Road to Commercialisation".

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams as the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition, we hope that this collaboration never ends here.

Thank you.



DR. NUR HAYATI BINTI ABD RAHMAN
Deputy Rector Research & Industrial Linkages
Universiti Teknologi MARA (UiTM) Cawangan Melaka

It is a great pleasure to welcome all the participants and presenters to the Virtual Melaka International Intellectual Exposition (VMIIEX 22). I am delighted that through this periodic event, we managed to bring together scholars and professionals from various fields to engage through this virtual platform where ideas and breakthrough are discovered and leveraged for commercialization potential.

Since 2009 UiTM Cawangan Melaka has held twelve Invention and Innovation Design competitions and this year we are very honoured to have the second year of VMIIEX organized in digital platform. This has proven that despite the global challenges due to the recent pandemic, it is never an issue for UiTM Melaka to continuously organize this yearly prestigious event and to support the ministry's aspiration in leveraging creativity and innovation in the new norm.

VMIIEX 22 is organized with no sole objectives of accomplishing the University's KPI but instead we are determined to make this programme as the place to help heighten commercialization collaboration in research and innovation with the industry and community through joint exhibitions from various external organizations.

Our aspiration is to also provide exposure and opportunities to academic staff as well as students from public and private universities to engage in direct excellent scholarly activities with the industry and community through activities that can be measured and assessed. As for the Research and Industrial Linkages Office of UiTM Melaka, this exhibition is seen as the platform that can encourage active collaboration and knowledge transfer with industries; objectively to support various activities that will benefit all stakeholders from the various government agencies, local and international universities, industries and communities.

Through the theme of "Road to Commercialization" this year, V-MIIEX 22 is committed to have this event as a boulevard to inspire and cultivate creativity and innovation to the numerous levels of inventors through exposure on latest technologies, astonishing ideas and creative designs with great potential to be commercialized. For this year, we proudly introduce a special category which is the "Endemic Challenge" as the provision to the government of Malaysia's goal of moving towards the endemic.

To ensure that the competing products in this exhibition is not exclusively for the purpose of competition, V-MIIEX 22 is dedicated for the commercialization of highly potential innovation products, which is attained through its active collaboration with tailored needs industries. The commercialization effort was not for income generation purpose only but it aimed to spearhead the development of quality products in line with industrial needs and community benefit.

Therefore, it is a great honour for me on behalf of the Research and Industrial Linkages Office as well as the organizing committee to have all participants in this competition and I would like to express my highest gratitude especially to the Rector of UiTM Melaka and all strategic partners and sponsors for supporting the event.

To finish, I sincerely wish VMIIEX 22 a remarkable success. I believe that this will not be the only collaboration between UiTM Melaka and the respective partners and linkages, but a beginning of a long and fruitful cooperation in future.

Thank you very much.

road to commercialisation...

WAN HASMAT WAN HASAN
Project Director V-MIIEEX 2022
Universiti Teknologi MARA (UiTM) Cawangan Melaka



Assalamualaikum and Warmest Greetings.

It gives me an enormous pleasure, on behalf of the organizing committee to welcome all participants and presenters to the Virtual -Melaka International Intellectual Exposition 2022 (VMIIEX '22) with the theme "Road to Commercialisation". We are honoured and glad to welcome all participants to this biennial event.

This is the second time that we have organized this biennial event virtually. V-MIIEEX 22 is an innovation competition, in which, innovation products, ideas and systems related to various science and technological fields are exhibited as a solution for the presented problems.

V-MIIEEX22 expectantly will be a platform that gathers experts from academies, scientists, and researchers, locally and internationally, to contribute towards the growth of scientific and technological knowledge in each participant's specialisation and expertise.

The competition also serves as a platform to give fresh exposure to the various level of inventors, as well as to encourage the culture of innovation design focused on latest technologies and related to new norms technologies and inventions due to COVID-19.

V-MIIEEX 22 is also hoped to be an avenue for gathering and disseminating the latest knowledge on ideas and acquisition of innovation among the participants. It is hoped that the competition will be able to open the mind of the participants towards latest technologies and design. It is also in line with the government's aspiration to encourage innovation activities in Malaysia.

As a final note, I would like to congratulate my fellow committee members for their tremendous effort, which have been critical to the event's success. In addition, I would like to thank our co-organizer, event sponsors and supporters. Optimistically, we wish that all new knowledge that is discovered, invented, or innovated will drive towards our future sustainability.

Thank you.

ABOUT V-MIIEEX

The world after COVID-19 is unlikely to return to the world that was. Despite the challenging pace during the pandemic, the strong rebound is expecting in this exciting year 2022. Malaysia is welcoming the great prospects ahead with positive impact on the country's economy and development. Hence, the hope for greater opportunities motivates for more creative thinkers to come up with innovative ideas that can be put forward to be harnessed to overcome similar problems in the future. V-MIIEEx 2022 is one of these platforms which contribute relevant ideas that could help communities of all walks of life cope with this pandemic.

UiTM has identified research, innovation, and commercialization to be among the core components and strategic effort towards becoming a well-known and prominent university. Aside from realizing this goal, with these components and efforts, fostering the development of knowledge, generating financial stability of the university, and producing knowledgeable academicians are also potentially achievable.

By having invention and innovation competition yearly, UiTM Cawangan Melaka is confident that it could further enhance creative and innovative abilities among staff and students. In support of the government notion which upholds the importance of innovation, UiTM Cawangan Melaka has taken the initiative of organising the Virtual Melaka International Intellectual Exposition (V-MIIEEx).

In instigating and nurturing the continuous culture of inventing and innovating, this event is an ideal platform for lecturers, administrative staff, students, and the public to showcase and commercialize their products or prototypes as well as novel ideas. The first IID which was held nationally in UiTM Cawangan Melaka in 2009, has successfully gathered and displayed more than 37 inventions and innovations. Accordingly, to continue this strong passion towards inventing and innovating, the IID competition should be continued and celebrated.

With that, the Division of Research and Industrial Linkages will be organising its 12th IID competition, the Virtual - Melaka International Intellectual Exposition (V-MIIEEx 2022) with the theme, 'Road To Commercialisation'. V-MIIEEx 2022 hopes to welcome 200 competing products to be showcased and commercialized, at the same time, attract attention of related and matching industry.

Objectives

1. Encourage and instill passion towards inventing and innovating among UiTM Cawangan Melaka staff, students and academicians of local and international higher education institutions;
2. Highlight distinguished talents of skillful inventors and exhibit intellectual products, inventions and innovations among local and private tertiary institutions, government and private agencies, including international participants;
3. Become an effective Business Matching platform for participating research products, matching industries and partnering government agencies;
4. Recognise, inspire and promote invention and innovation products to be patented and commercialized;
5. Increase passion towards inventing and innovating through research and boost interests of government and non-government agencies to obtain consultancy services from a line up experts of higher education institutions and UiTM Cawangan Melaka.

O_Brave Umbrella

Fatin Nur Atiqah Binti Mohd Fadziladha¹, Nur Azlinda Binti Rusli², Muadz Harits Bin Azhar³, Muhammad Uzayr Syahmi Bin Rohaizam⁴, Nuramira Nabilah Binti Hamidi⁵, Maizatul Saadiah binti Mohamad⁶

^{1, 2, 3,4,5,6} University of Technology Mara, Alor Gajah, Melaka.

fafafatin259@gmail.com, muadzharits@gmail.com, uzayr.rohaizam13@gmail.com,
lindarusli0102@gmail.com, amira020321@gmail.com, maizatul022@uitm.edu.my

Abstract

We develop a very deep passion in nature-friendly industry. Transaction to “endemic” phase , after two years battling with this Covid_19 change the lifestyle of Malaysian and the world. With the theme “help stop spread of Coronavirus and Protect our Family” and “a better Malaysia” we have to adapting to the new Norma lifestyle by keep standard operating procedures (SOPs) such as Physical Distancing and wearing mask only in in crowded Public Areas. The main Objective essential for everyone to wear a face mask and keep Physical distancing as a barrier against the virus that spreads through respiratory droplets. Plus, wearing a face mask could develop a breakouts. After doing a few research and development on “Covid 19”and functions of Umbrella. We decided to come out with a product called “O_Brave Umbrella”. Our Omicron_Brave Umbrella is perfect for everyone with sensitive and special design to who are not interesting to wear a mask but still can protect from the spread of this Covid_19. We have been focusing on producing the environmental-friendly products to save the Mother Nature. While our mission is to “better Malaysia” and satisfaction along with the needs and demands over times. We are eager to learn on how to give only the best to our customers as a whole. We implement the e-commerce system and we put value added such as futuristic design to make sure our product can be commercialize.

Keywords: Covid_19, Omicron, Umbrella, Futuristic

1. INTRODUCTION

The World has changed since the Coronavirus invaded the world at the end of 31 december 2020. This the starting point that causing the way of normal life change (Asyraf 2020). Early April 2022, Malaysia announce the transaction to endemic phase with the theme “Better Malaysia”. From this scenarion give us inspiration to develop and produce uniques and futuristic product but have the protection functions without burden in term of cost and negative side effect to our health. While research is ongoing, we now know that the virus can be spread by people who do not show symptoms, which means that some people may be contagious and are unaware of it. COVID-19 spreads primarily through respiratory droplets, which people expel when they talk, sing, cough, or sneeze. This is one of the reasons why physical distancing is so important in areas where COVID-19 is prevalent.

However, keeping a safe distance from others in crowded public places is not always possible, which is why the use of a fabric mask in such situations is recommended to protect each other.

But keep in mind that a mask is not enough (www.unicef.org/coronavirus).

Wearing a face mask is a crucial strategy to prevent the virus that causes COVID-19 from spreading. Wearing a mask can sometimes trigger or worsen the acne, rashes, and other skin problems on the face for certain people. Our Omicron_Brave Umbrella can solve this problem.

2. OBJECTIVE

Our main goal is to ensure our customers to receive the “goodness” and satisfying with our products. We serve the customer with the unique and futuristic designs, and the quality to be delivered with variety of products to see the best result to improve for betterment in the future. Plus, our vision is only to establish products that meets the environmental criteria and user-friendly. The reason why we are focusing on producing the environmental-friendly products is to save the beauty of our mother nature.

Well-protection umbrellas, a user-friendly and eco-friendly umbrella that protects people is our main goal. Our key goal is to give urban consumers additional options. The main reason is that individuals who live in cities prefer to walk, take public transportation, or walk to take public transportation rather than driving to their destined place. We look forward to our customers' satisfaction towards our product. Given that our company is new to the market, there will be numerous factors to consider and examine to ensure that our brand can compete with other umbrella manufacturers and meet our consumers' expectations, as many individuals currently own an umbrella.

3. NOVELTY & INVENTIVENESS

Our O_Brave Umbrella is developed specially for people with sensitive and acne-prone skin which cannot wear a mask for a long time. Due to the climate, wearing face mask always causing skin breakout. So with this umbrella will not create issues like skin-need to friendly material to minimize the risk of infection. Thus, we utilize only the high quality product for our umbrella. If you're looking something out of the ordinary with the outlandish designs and can customize your logo and printed with up to three colours (clear, white and Red). Umbrella were first invented in 1000 B.C by the Egyptians. Instead of being used to keep dry, these parasols sheltered nobility from harsh sunlight (www.baliosumbrella.com).

4. PRACTICALITY & USEFULNESS

Basically, Why are umbrella so important? an umbrella was designed to protect us from a variety of weather ailments rain, sunshine, and light snow. Nothing can cause bad days or prevent you from getting soaking wet like an umbrella. An umbrella was also designed to protect you from the harmful effects of sun. The Uniqueness for our product is can prevent you from the spread of covid 19 by the special layer of cool and comfortable. We also provide a small fan that include in the layer. We make sure that our product is material is environmental friendly and not occur the side effect to the consumer. There are several market leading umbrella brands. We ensure that we can compete by producing and creating products based on compact size, impressive strength, and stylish designs, and the main utility of this O_Brave Umbrella is to protect from this covid 19 spreadness. This product is ideal for anyone who enjoys taking pictures for their selfies.

5. CONCLUSION

In a nutshell, we all have personal preferences, just like cars, clothes, and food. Consider your lifestyle, budget, and brand when selecting an umbrella. It is not a good idea to pick an umbrella just because it is fashionable. This O_Brave Umbrella meets all of the criteria at a lower price while remaining stylish, safe, healthy, and futuristic. Let us support our local product and also the government policy to eradicate the Covid_19.

REFERENCES

Asyraf Salleh (2020). The Great Lockdown: Unjuran Baharu Ekonomi Malaysia. Perspektif 17/2020.

<https://www.unicef.org/coronavirus>

<https://themalaysianreserve.com/2022/03/31/ready-for-transition-to-endemic-phase/>

<https://www.baliosumbrella.com>