UNIVERSITI TEKNOLOGI MARA
College of Built Environment

Poster Book

IIIDBEEX 2023

20 JANUARY 2023

International Invention, Innovation & Design Exposition for Built Environment and Engineering 2023

College of Built Environment
UiTM Puncak Alam
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Editors:
Dr Aidatul Fadzlin Bakri, Nurzafira Zainul Abidin, Sr Dr Noor Akmal Adillah Ismail, Dr Har Einur Azrin Baharuddin, Assoc. Prof. Ts Gs Dr Abdul Rauf Abdul Rasam

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Kuala Lumpur's Human Capital Enhancement Centre: Optionality, Alternatives and Possibilities for D.I.Y. Spaces

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INTRODUCTION

WHAT?? - D.I.Y. has been described as a **"self-made-culture"**; one of designing, creating, customizing and repairing items or things without any special training. D.I.Y. has grown to become a **social concept** with people **sharing ideas, designs, techniques, methods and finished projects** with one another either online or in person. Especially when **Covid-19 hits**, the numbers of people who ventured into it increases making it as a needs to have a proper place and ways on exploring the hobbies/activities further.

HOW

D.I.Y. culture has been around but this study circles around covid-19 pandemic in Malaysia

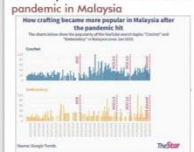


Figure 1.2 shows how crafting became more popular in Malaysia after the pandemic hit

WHY

Because the pandemic covid-19 affect a lots more than the health centre. It also affects the economics as well as architectural influence in micro spaces typologies.

Figure 1.3 sample of works by Bahar et al (2021) research on Psychological distress, fear and coping among Malaysians

WHO

Youth | Un-employed | Hobbiest | Makers

Figure 1.4 according to some paper stated that the unemployed suffers more stress than

ISSUES/ PROBLEM STATEMENT

Malaysians still *underestimate the potential of D.I.Y. culture* especially in the advancement of sustainability and economy. This maker-culture is still at its early stage in Malaysia and we are the hard consumer to major products

The *exposure to D.I.Y. culture in this country are still at minuscule level* after observation, locals still pledge themselves to the three main excuses to not applying D.I.Y. culture in their lifestyle in Malaysia. 'no tools, no space and no experience'

There is *no clear guide on understanding space relevancy* of the D.I.Y. culture and its activity that can guarenteed it safety and benefits

OBJECTIVES

1. To **understand** the cultivation of D.I.Y. culture in Malaysia during the Covid-19 pandemic while consider the **possibility of new capital enhancement** on **self-sufficiency.**

2. To study the **programmes** that will help people after the pandemic and the **working environment** related to **creative incomes** in Malaysia.

METHODOLOGY

RM1 LITERATURE REVIEW

1) Articles
2) Relevant Documents
3) Reports
4) Reference Books

to

1) **Define**
2) **Categorize**
3) **Factors** contribute

RM2 PRECEDENT STUDIES

1) Station F, Paris
2) Blackhorse Workshop Sideshow, UK
3) KEDAI Artisanal Market, KL

on

1) **Function** of building
2) **Programmes**
3) **Target Users**
4) **Spatial Planning**

RM3 SEMI-STRUCTURED INTERVIEWS

1) 4 home-owners
2) Running D.I.Y. project
3) Make profits

questions include:

1) D.I.Y. **Activities**
2) D.I.Y. **Workspace**

RM4 OBSERVATIONS

Observations enable the researcher to **observe the activities** and **spatial layout** required for do-it-yourself projects.

NOVELTY

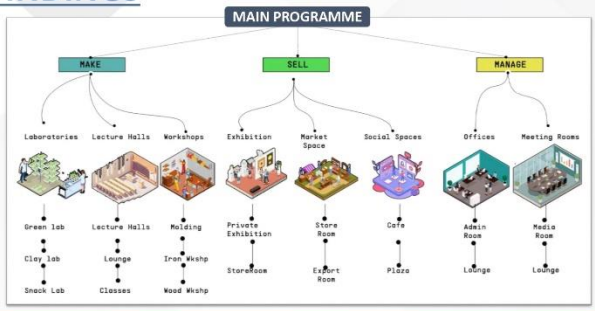
Helps to :

1) Shed light on the **importance** of providing **space for D.I.Y.** activities
2) **Harnessing talents**
3) **Educating** people about **resiliency**

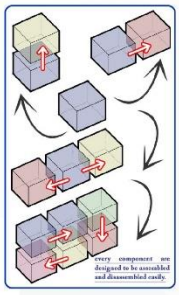
BY

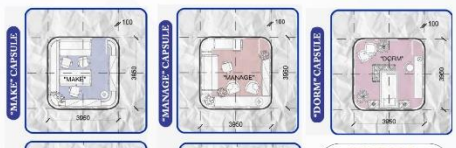
1) Exploring the opportunities towards the **artisanal society**
2) **Bridging the educational divide** among the different income groups

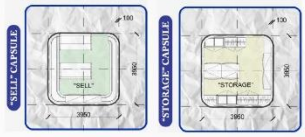
FINDINGS



The building's **core** is **regenerative design**, which ensures **future flexibility for change**. A 3-dimensional recursion rule creates a module or capsule with compatible joints. Because these capsules are constantly **growing and evolving**, the assembled and disassembled components can be seen adding to the geometry.







SPACE FOR :
Experiences + Skills + Economy + Easy access to resources

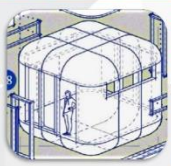
CONCLUSION

This study sheds light on the **importance of making space for do-it-yourself activities, developing talents, teaching people about resilience** by **exploring opportunities** in the artisanal society, and **bridging the educational divide** between different income groups. This study examined the **profile of Malaysian D.I.Y. culture** and how **important** it is to consider the **workspace** to make it **personal, productive, and fulfilling** while maintaining a **sense of home**. The study's findings can be further investigated and improved by recognising the importance of analysing the **unique needs** for **specific programmes** and **space efficiency** as part of initiatives to cultivate better productivity for Malaysia's D.I.Y. and maker cultures. Designers and developers can apply the concept of **adaptability, optionality, alternatives, and possibilities** through the **design of capsules** to other do-it-yourself or similarly styled structures.

COMMERCIALIZATION

THE IDEA OF:
Flexibility + Optionality + Alternatives + Possibilities

+



Design of Capsules

=

CAN BE ADOPTED BY :
Designers and developers

TO:
Other D.I.Y. buildings or buildings of similar nature

CONFERENCES & PUBLICATION

Poster and Extended Abstract submission: Nur Hidayah Rosli, Aidatul Fadzlin Bakri & Nik Farhanah Nik Azhari. 2022. *D.I.Y. (Do-It-Yourself) Culture in Malaysian Homes during the Covid-19 Pandemic. Gold Medal,* 3rd International Conference on Built Environment and Engineering 2022 (IConBEE), 8th - 19th October 2022, Putrajaya, Malaysia.

PREPARED BY: Nur Hidayah Rosli, Aidatul Fadzlin Bakri & Nik Farhanah Nik Azhari