

Posten Book



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Designing APrototype Planetarium typology with Full Dome Imaging Technology For 20 JANUARY 2023 **Enhancing** and Impactful Cognitive Experience

International Invention, Innovation & De for Built Environment and Engineering 2023



INTRODUCTIONS

THE NEW SPACE ECONOMY



The New Space Economy in 2018 has been introduced to democratize the knowledge space related to economic fields, such as technology, engineering, education infrastructure and even tourism. (DECD, 2012 that is closely align with the Industrial Revolution 4.0, which urgently stressing every single sector to be prepared.

NEW SPACE ECONOMY & Industry 4.0



WHY

The Science, Technology and Innovation Ministry is developing a blueprint called the Madaysia Space Exploration 2030 (Madaplia Bapace X 2030) to drive growth and create a sustainable national space sector scopystem. Her assure, the road of an appear sector scopystem for early initiative by the government to fector sine adecation.

HOW

s to left behind in exposing ublic interest to the nce of space education.



Figure 1:3 news cut suggesting that our industry is falling behind

WHO

The future generation will be affected and our current national assets (Planetariums) assigned to sparks the interests of young minds into space infelds have minimal effect resulting future generation are not interested in advanced science and statements.



PROBLEM STATEMENT

Space education awareness in Malaysia are still at critical level as we cannot produce an effective learning environment for the particular field



The urgency for a space science infrastructure as current **Planetarium designs** are outdated and receive critical demand to cater variety of audiences.

The current technology of the Planetarium Full Dome experience are still now only reaching flat imaging capabilities.

OBJECTIVES

To understand the needs for a space infrastructures that to meet requirements and objectives in educating people about space sciences.



To find out design possibilities in merging space values and technologies in reaching goals of enhancing experience and cognitive learning.

RESEARCH METHODOLOGIES (RM)



- To

DEFINE OBJECTIVE OF RESEARCH

Contribution on designing new planetarium

RM² SEMI STRUCTURED
PROFESSIONAL INTERVEIWS

HE PROFESSIONAL BOD' IN JUNE 2022

RM² CASE STUDY, OBSERVATION

DATA COLLECTION AND ANALYSIS

An interview conducted, to find out the aspiration for the built for Planetarium Negara. This paper has interviewed the Chief Senior Assistant Director of the National Planetarium, En Zamri Bin Mastor, on June 2012, face to face in his office at Planetarium Negara, Kuola Lumpur, and the results regarding the aspirations have been answered below.















Planetariums represent one of the biggest and most visible avenues for presenting astronomy and related subjects to the public (Manning, 1994).

Latz, E. (2011). Finesterium of fine fixers. Cardion: the Maxim Journal, 34(3), 293–312. https://doi.org/10.111/j.2115-4952-3011.00093x.



VISUALISING DESIGN OF THE PLANETARIUM '360 Imaging + Form and Shape representing a star and pla





ALKS ON FLOATING GLASSES





CONCLUSIONS



COMMERCIALIZATION



Guidelines for Designing a Universal Planetarium and Structures Related



Guidelines Planetarium specialized construction and manufacturing



Guidelines on Designing Visual and Experience structures related

Highlights awareness on Space Science field



Cater for wider audience to have interests in Space Science













