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INSTAGRAMMABLE TRANSIT OF KUALA LUMPUR SENTRAL

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ABSTRACT

Social media has noted a wide range of users throughout the world. One of the famous social media platforms to share unlimited photos and videos is Instagram. Instagram offers great ideas and inspiration based on an eyecatching Instagrammable setting that serves as a backdrop for a perfect photo. The term 'Instagrammable' is frequently defined as visually attractive or interesting such that it lends itself to being photographed and posted on social media. For architecture-based and design-based, the term is a new adjective that is used to describe a scenic or visually attractive urban design. In Malaysia, one of the potential sites to be developed as an Instagrammable area is KL Sentral. KL Sentral was chosen because of its strategic location as a hub of global connectivity that is surrounded by various types of dthat can enhance urban lifestyle with unrivalled accessibility. KL Sentral also ntral also was chosen based on three issues which are wear and tear, visual al character, and walkability. Therefore, a project titled Instagrammable Transit of KL Sentral is proposed to enhance KL Sentral as the state-of-the-art transportation hub.

Keywords: Instagrammable, Insta-worthy, Urban Design, KL Sentral. *Corresponding author: zainulmukrim@iium.edu.my

INTRODUCTION

KL Sentral is located at the nucleus of Kuala Lumpur with a City-within-a-City concept. It is an exclusive urban centre built around Malaysia's largest transit hub that offers global connectivity, excellent investment opportunities, business convenience, and an international lifestyle. KL Sentral spread over 72 acres of land bordered by Jalan Travers, Jalan Damansara, and Jalan Tun Sambathan. This area is comprised of Sentral Station, corporate offices towers, 5-star international hotels, a luxury condominium, and a shopping mall. The area was chosen due to its strategic location, unrivaled accessibility, the hub of global connectivity, and being surrounded by various developments that can enhance urban lifestyle (Figure 1). However, the area facing several issues which are:

- 1. Wear and tear The 19-years-old KL Sentral is in urgent need to upgrade its facilities and amenities
- 2. Visual character Beautification needs to be done to bring colours to the surrounding landscape
- Walkability Visitors and users feel discouraged to travel from one place to another due to lack of connectivity.

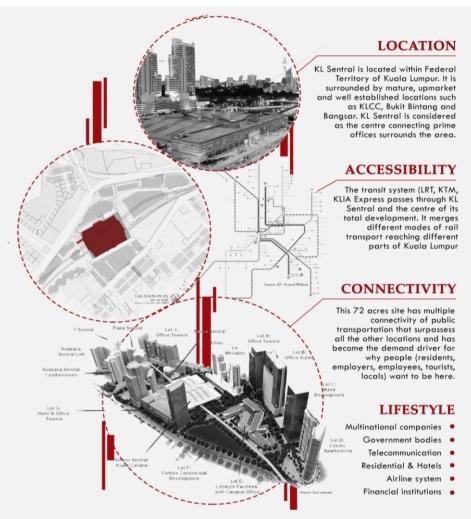


Figure 1: Values of KL Sentral

Therefore, this project of Instagrammable Transit of Kuala Lumpur Sentral is proposed that aims to enhance KL Sentral as the state-of-the-art transportation hub. To achieve this, three objectives are needed which are:

- 1. 1.To provide a modern and interactive urban design that is sustainable and can be used by every type of user
- 2. 2.To showcase liveliness of the area with are-driven design to be experienced by pedestrian and vehicle users
- 3. 3.To create an environmental-art setting by integrating natural art and urban art

LITERATURE REVIEW

Figure 2 shows the six definitions that are related with the project are explained which include definition of social media, Instagrammable, Instaworthy, natural art, urban art, and natural + urban art (Figure 2).

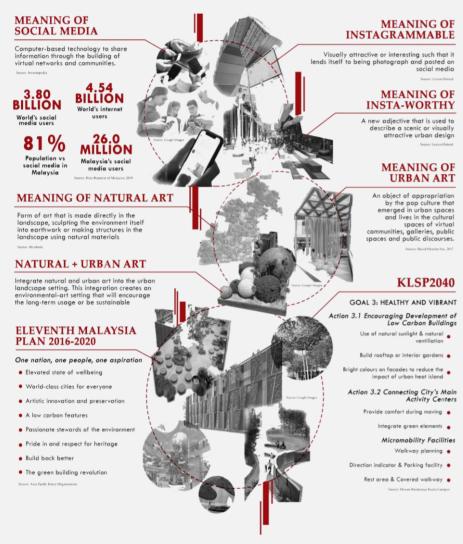


Figure 2: Definitions of six keywords related to the topic and related plans that suits to the project.

METHOD / PROCEDURE

CHECKLIST AND OBSERVATION

This project conducted the checklist for site inventory and observation as the methodology for data collection. This method is done by mapping the existing site condition and taking pictures of the site condition.

INVENTORY AND ANALYSIS

1. Development History

Figure 3 shows the development history of KL Sentral that includes the evolution of transportation and the evolution of the main railway station in Kuala Lumpur, starting from 1857 where Kuala Lumpur used rickshaws, bulls, and elephants as main transportations until 2001 where Kuala Lumpur was introduced with an integrated railway system of KL Sentral.

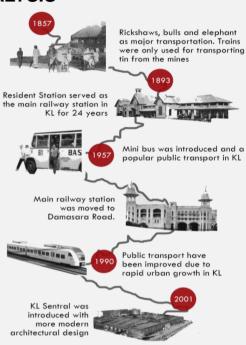


Figure 3: The development history.

2. Facilities, utilities and cultural services

There are numerous facilities, utilities, and cultural services at KL Sentral that are associated with social and economic benefits that tie together existing heritage assets, cultural attractions, and creative enterprises.

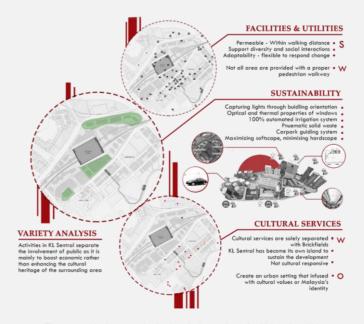


Figure 4: Variety analysis that is based on facilities & utilities map and cultural services map.

3. Existing Structure

There are many landmarks at macro and micro scales that have outstanding features and can be recognized immediately by the locals and even the foreigners. Figure 5 shows the existing structures that include macro and micro landmarks that are needed to form the legibility analysis.

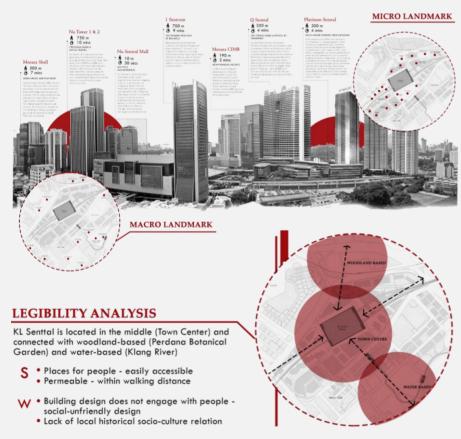


Figure 5: Legibility analysis that are based on the inventory of existing structures (macro and micro landmarks).

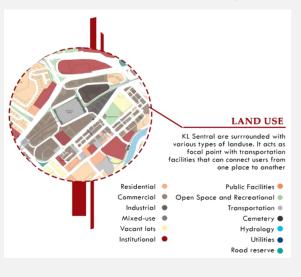


Figure 6: Various types of land uses in KL Sentral

5. Visual and Senses

Figure 7 shows the inventory of visuals and senses includes noise and odours and visual appropriateness that is based on the feeling and character of the users on the site (Figure 7).

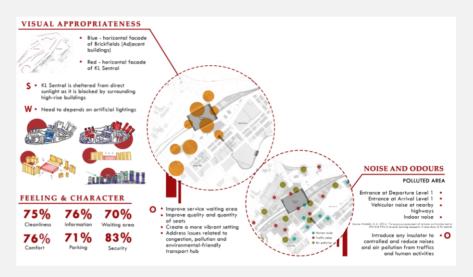


Figure 7: Visual appropriateness, noise and odour elements

6. Circulation

As for circulation, it is divided into two which are pedestrian movement and vehicular circulation. Figure 8 shows the pedestrian movement that is divided into 3 routes which are the residents' route, workers' route and tourists' route. On the other hand, figure 9 shows the vehicular circulation that explained on traffic density, traffic controls and public transportation in the area. All of this route and inventory on circulation are very important and needed to form the permeability analysis of the area.

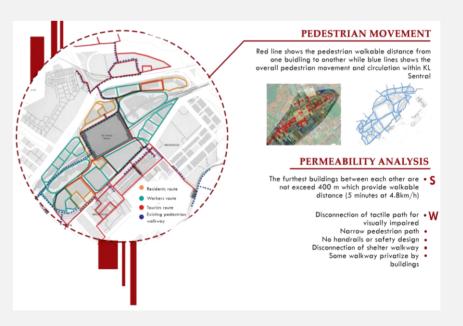


Figure 8: Pedestrian movement and permeability movement

4. Land use

Sentral

includes

facilities,

recreational.

residential,

commercial,

many more.

vacant lots

space

Figure 6 shows different types of land uses in KL

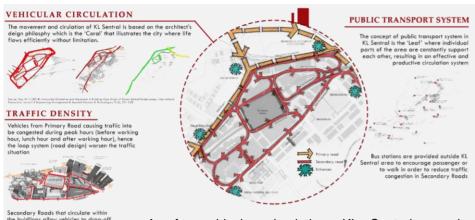
that

public

open

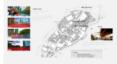
and

and



TRAFFIC CONTROLS

Traffic control security on Secondary
Roads are always standby to ensure no
parking are allowed along the curb that
might cause traffic congestion



As for vehicular circulation, KL Sentral can be accessed easily where it is connected with major road and highways. The vehicles that enter from Jalan Tun Sambathan, Jalan Damansara, Jalan Bangsar and Jalan Travers to KL Sentral has caused traffic into the most congested period during peak hours. The exit route from Jalan Stesen Sentral 5 to Jalan Travers might not be sufficient to cater for the large number of vehicles coming in and out from KL Sentral. However, KL Sentral has provided the public transport services accessing the Stesen Sentral such as bus, monorail and sheltered pedestrian walkway. This TOD of Bus-Taxi-Train are linked among each other thus, helps in reducing the road congestion during peak hours.

Figure 9: Site inventory and analysis for circulation that focuses on vehicular circulation.

7. Climatic Factors

Climatic factors are observed and analyzed based on macroclimate context, focuses on Kuala Lumpur monthly climate average from 2019-2020.

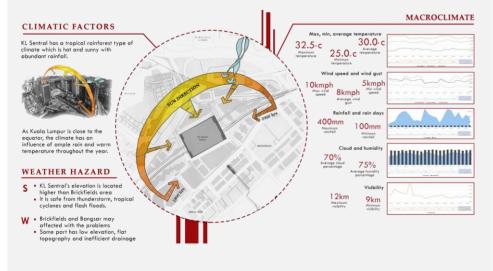


Figure 10: Climatic factors, macroclimate and weather hazard in Kuala Lumpur.

8. Existing Vegetation

Figure 11 and Figure 12 show existing vegetation and potential green area within KL Sentral.

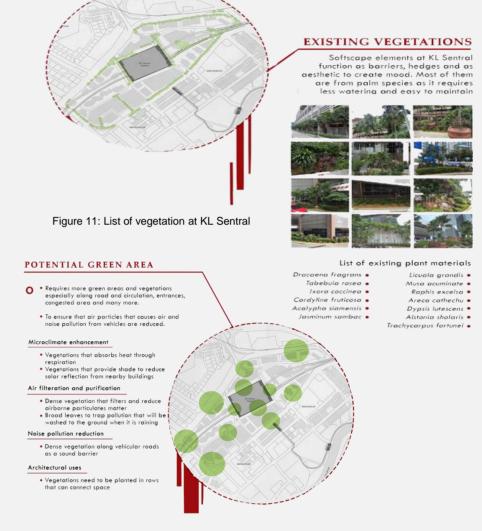


Figure 12: Potential green area

9. Hydrology

Kolam Takungan Banjir Jalan Travers

- Categorised as 'Kolam Takungan Kering'
 Longitude 101,40'57.73"E Latitude 3,8'2.34"N

Klang River

- Located behind Masjid Jamek and flows south-west through Brickfields, bangsar and Lembah Pantai
- Approx. 120km and a basin about
- 1288km2

Considerably polluted because of deep siltation caused by human waste from informal settlers of the riverbank



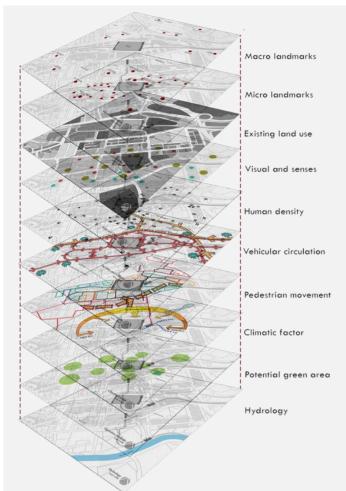


Figure 13: Layering maps of all attributes.

SYNTHESIS

Based on the collected data on-site inventory and analysis, layering maps of all attributes were produced with a cross-analysis table that further describes the inter-relation of each element (Figure 13 and Figure 14). Overall, there are six (6) main design potentials based on the challenges and weaknesses from site analysis which are; art-driven design, potential nodes, connectivity, air purification and filtration, universal design, and sustainable design. These six (6) main design potentials should have a natural-art urban design in creating Instagrammable Transit of KL Sentral (Figure 15).

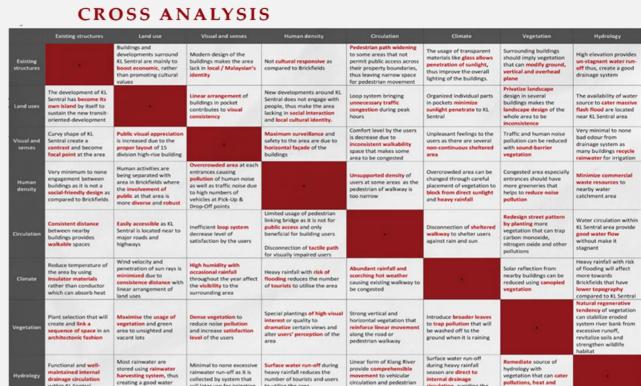
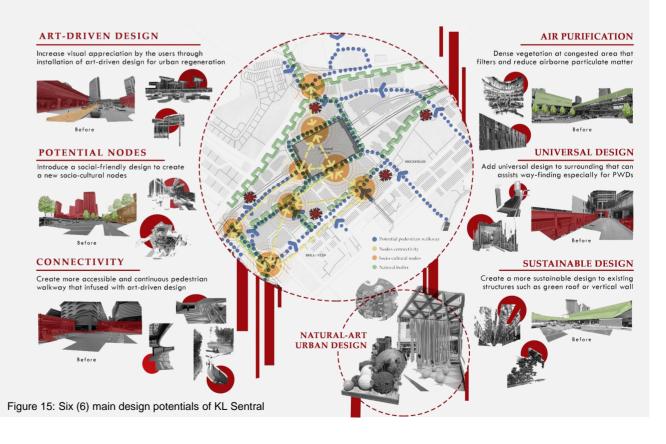


Figure 14: Cross analysis table to identify the inter-relation of all elements



DESIGN DEVELOPMENT

DESIGN CONCEPT

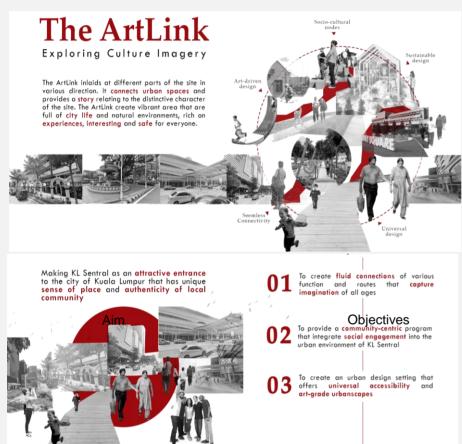


Figure 16: Design Concept, objectives and aim

DESIGN STRATEGIES

DESIGN STRATEGIES COMMUNITY-CENTRIC AIR PURIFICATION ART-GRADE URBANSCAPE Providing community-centric program that has unique sense of place and authencity of local Installing art-grade urbanscapes that offers universal accessibility to increase visual Dense vegetation at congested area that minimize heat reflection and reduce airborne particulates matter community appreciation by all users Creating more accessible and continuous design program that infused with art-driven Creating a more sustainable Introducing more social-friendly design approach to existing structures such as green roof or vertical wall design to create a new socio-cultural nodes to the surrounding area Figure 17: Design strategies

SPACE PROGRAMMING

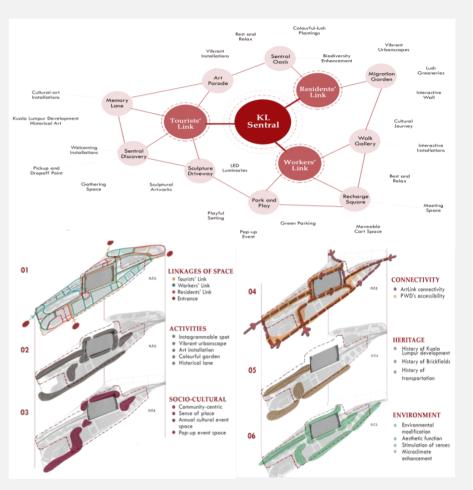


Figure 18: space programming

SCHEMATIC DIAGRAM

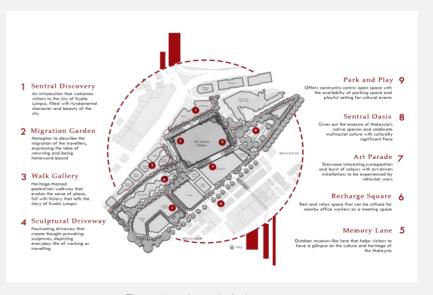
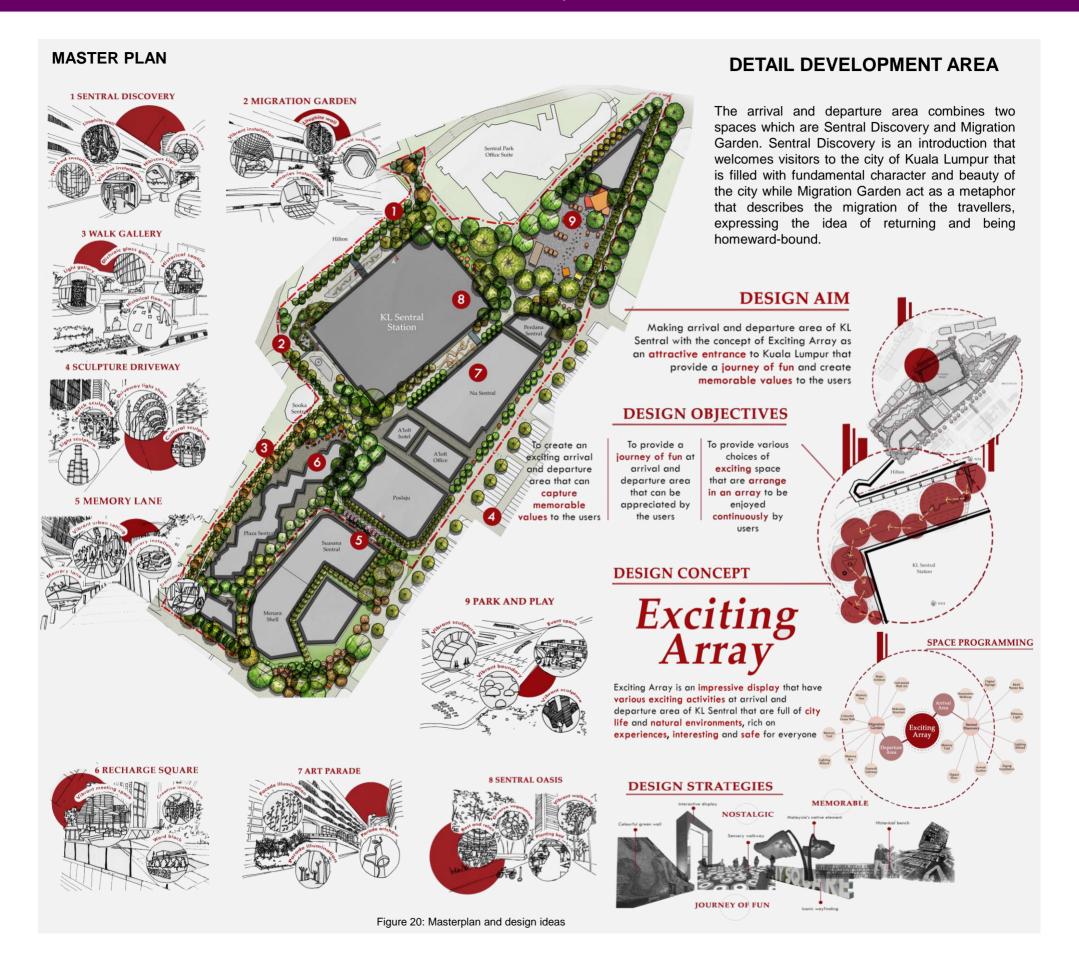


Figure 19: schematic design



DETAIL DEVELOPMENT PLAN Jalan Stesen Sentral **Instagrammable Spot** Illuminative Walkway 0 Digital Signage 🙆 Arrival Garden 🧿 Motif Planter Box 1 Water Artshow 🕡 Hibiscus Light 👩 Galvanised Wall Art 🕕 Zigzag Installation 6 Molecular Structure (2) Digital Floor 6 Memory Box 🔞 Memory Trail 🕖 Farewell Gateway 😰 Colourful Green Wall ® Memory Tree 🚯 Instagram Features Scale 1:200









Figure 21: Instagrammable Spot in Exciting Array

INNOVATIVE DESIGN ELEMENT

MULTIPURPOSE VIBRANT INSTALLATION

The freestanding zigzag installation marks the entrance to the Instagrammable Transit of KL Sentral. This piece of art comprises a series of interactive, architectural and visually appealing elements that invite users to not only it as a waiting area, but also to enjoy the interactive program that is provided. It functions as a seating area, complete with an interactive digital board and interactive digital floor.

1. ZIGZAG STRUCTURE

- Potential to be a new landmark
- Act as wayfinding (vibrant colour)
- Provide sense of urban excitement with visually

 attractive element
 - Material: Continuous linear steel tube and painted surface
 - Pavement: Brick paving (considering the comfortable and mobility of PWDs)
 - Painted with graffiti resistant paint
- Complete with S.O.S button and intercom that are integrated into the column
- With seat dividers as physical barrier to avoid people from lie down



PLAN VIEW

FRONT ELEVATION

2. DIGITAL FLOOR

- Slip resistance
- Waterproof and dustproof (IP65)
- Material: Aluminium die casting (high load per sqm up to 2000kg/sqm)
- The cover was made of high-strength PC engineering-plastics (high capability of wearing-resistance, scratch resistance)
- 16bit processing, brightness up to 3500cd/m2 (high contrast design, clear playback, high definition that are not harm to the eyes)

DIGITAL FLOOR CONSTRUCTION DETAILS



Figure 22: Instagrammable innovative design

3. INTERACTIVE DIGITAL SIGNAGE

- Maximize user engagement with durable structure •
- Material: Toughened glass panel and anti-reflective glass •
- Top places locators, interactive and directional maps, advertising campaigns, 3D and flash animation
 - Door could be opened, convenient for maintenance •
- Protected from weather and vandalism through hidden controls and openings
- With great safety performance because of anti-theft lock design •

CONCLUSION

It is believed that the project of Instagrammable Transit of KL Sentral will give many impacts to on the surrounding landscape and urban imageability in KL Sentral that can overcome the issues that have been mentioned before. The proposed design will also achieve the aim and objectives so that KL Sentral will be enhanced as the state-of-the-art transportation hub.

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