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BANDAR BAGAN DATUK, PERAK: REVIVING PEKAN KOBOI AS A HISTORIC TOWN CENTER

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ABSTRACT

Known as Pekan Koboi by the locals, and it is planned to be developed as a dynamic historic living city. The purpose of this research is to revitalise Bagan Datuk town as a dynamic historic living town centre, with three objectives: 1) to integrate the identity of Bagan Datuk District, 2) to introduce a contemporary living grounded in commerce activities, and 3) to promote sustainable living through smart energy solutions. Among the issues concerning the town are its historical value and identity, potential as a tourism transit, valuable estuary, unappealing and isolated spaces, and security design considerations. The presence of semi-residential, administrative, and public spaces becomes elements of a dynamic living town capable of accepting contemporary approaches without jeopardising its historical built fabric.

Keywords: Town planning, Cultural sustainability Corresponding author: jasasikin@iium.edu.my

RESEARCH / PROJECT INTRODUCTION

At the beginning of its existence, Bagan Datuk town was a gateway for traders, a place of merchandise exchange, and port activities. Tok Kelah, a figure who explored Bagan Datuk, was the inspiration for the town's name. Bagan is a Malay word that translates to "fishing village." People often refer to it as Pekan Koboi because there are only two rows of shophouses and the surrounding area is quiet and calm.

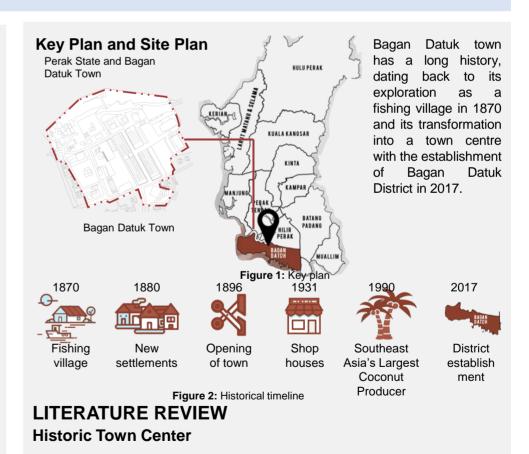
Among the issues concerning Bagan Datuk town are the following:

- 1. Historical significance and identity: Originally a fishing village, it is now famous for its coconut industry.
- 2. Tourism Transit: As a tourist rest and relaxation area
- 3. Important Estuary: Sungai Perak estuary is a social and ecologically valuable estuary.
- 4. Unappealing and Separate: Addresses the interdependence of the place-making criteria.
- 5. Security Design: Striking a balance between safety and security measures, as well as mobility.

Bagan Datuk town aspires to be developed as a dynamic historic living town centre, with three (3) objectives:

- 1. To integrate the identity of Bagan Datuk District.
- 2. To introduce contemporary living in order to strengthen commercial activities.
- 3. To Promote sustainable living through smart energy solutions.

The 26-acre town is located in Perak State's southern region. It is the last town located by the Perak River estuary before connecting to the Malacca Strait.



The historic town centre is defined as those active human settlements strongly conditioned by a physical structure originating in the past and recognizable as representing the evolution of its people (Mutal, 2014).

Bagan Datuk, like other early Perak small towns, was originally owned by the Malay before being colonised by the British. The economic activities of these small towns, such as mining and agriculture, influenced their town planning. The town's heritage values must be conserved.

Conservation Plan

Key features for conserving Bagan Datuk heritage values

- 1. Foundation of Knowledge
 - Promote interaction with an understanding of unique tangible and intangible heritage assets
 - · Introduction of historical assets through a landscape approach
- 2. Public Realm
 - Improve the quality of spaces and understand the urban landscape and heritage streetscape
 - · Making back lanes and alleys more appealing
- 3. Pedestrian Network
 - · Facilitate wayfinding, legibility and ease of pedestrian movement
 - Maximize continuity in the pedestrian network
- 4. Circulation and Access
 - Reduce dependency on private vehicles and shift transport mode to public transport
 - · Priority is given to pedestrians
- 5. Views and Vistas
 - · Preserve historic townscape and important views
 - · Define entries and landmarks
 - · Define the unique character of a place

METHOD/PROCEDURE

Site Inventory, Analysis and Synthesis

The layering process is divided into three parts: land developability, node suitability, and environmental sustainability.

- 1. Land Developability: Identifying the actual location with real development potential.
- 2. Node Suitability: Identifying potential nodes for future planning.
- Environmental Sustainability: Determining which areas require conservation and development with a focus on the self-sustain environment.

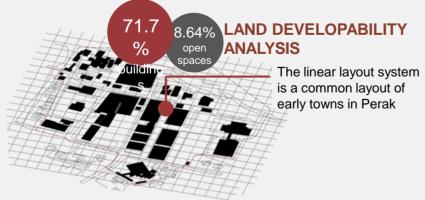
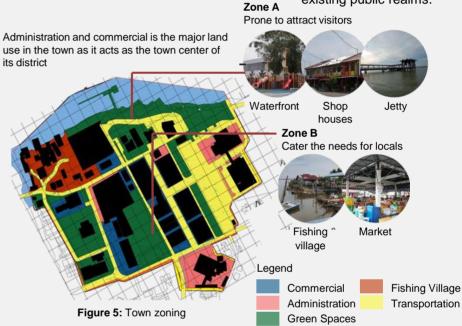


Figure 3: Figure-ground map of Bagan Datuk town



Figure 3 and 4 shows the town's land-use division and focus area. 71.7 percent of the undevelopable town area is made up of shophouses,

administration buildings, and residential areas. Meanwhile, 18.64 percent of the area is made up of open spaces such as alleys, parking lots, and existing public realms.



Since the district's inception in 2017, Bagan Datuk town has been outfitted with improved facilities and public realms to serve as the town's population centre. The development of its waterfront has served as a springboard for a more vibrant destination for visitors and local vendors alike. The presence of residential, administrative, and public spaces creates the possibility for the town to be developed as a dynamic historic living city capable of accepting contemporary approaches without jeopardising integrity as a historic town.

NODES SUITABILITY ANALYSIS

Socio-cultural Topography

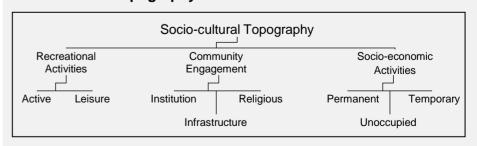


Figure 6: Nodes Suitability Layers

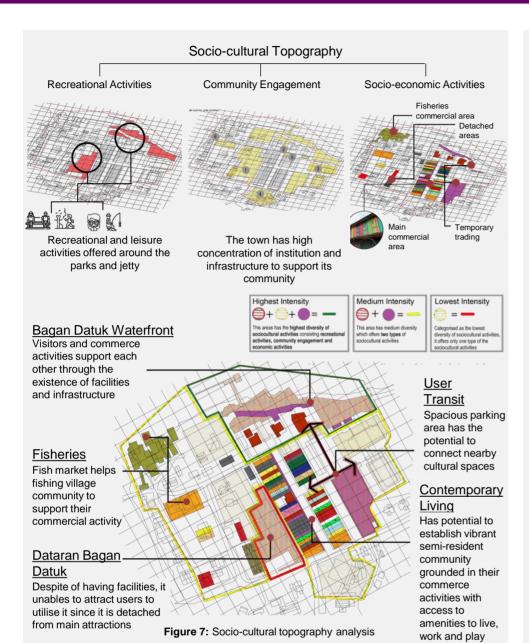


Figure 7 shows that the waterfront zone has the highest density of sociocultural value in comparison to the other zones. The zone, which serves as the only park in the Bagan Datuk district, provides basic facilities for community engagement as well as a neighbourhood commercial area. The presence of facilities and infrastructure allows visitors and commercial activities to support one another. Meanwhile, areas with a medium density of sociocultural value do not provide recreational activities and instead concentrate on providing institutions and infrastructure for the local community. This area consisting of the fishing village and the shophouses. Finally, the detached area has the lowest intensity of sociocultural value and is unable to attract a variety of activities. The Dataran Bagan Datuk is the only area that falls into this category.

Open Spaces And Networking

The waterfront and Dataran Bagan Datuk are two existing public realms that have been identified. Walkways and alleys are also regarded as public realms,

and it has been observed that the safety and security of the space located further away from the shophouses area decreases due to the lack of attractions to attract people and clear entrance points for vehicles and pedestrians.

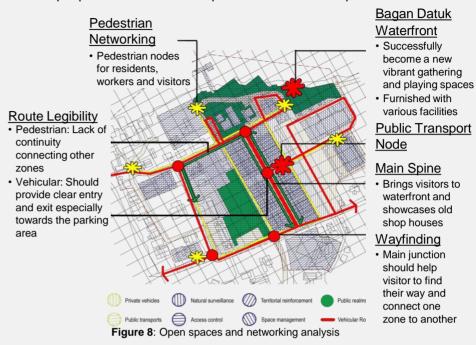


Figure 8 demonstrates the interrelationship of open spaces, circulation and access, and safety and security levels. A location with a high level of safety and security not only has clear legibility but is also well maintained. The spaces, which are equipped with facilities and opportunities for various activities, are capable of attracting more visitors and strengthening the sense of ownership. The waterfront area has the most potential to be developed as the most vibrant destination to attract visitors while also providing better facilities for locals. Circulation and access are critical features of a successful town centre, allowing it to serve as a public transportation hub while also prioritising the pedestrian network.

Urban Elements Bagan Datuk Jetty Expresses town is a place for the geographical visitors to enjoy the context acts as landmark Fishing village Sellers occupied the expresses the route and parking relationship between area making the human settlements place robust and a and its geographical node for people to context. trade and play Most shop houses Unique facade and were originally built open-air hall creates during the opening of a vista leading Bagan Datuk town people to the waterfront Figure 9: Urban elements within Bagan Datuk town

Although the Malays were the first to explore Bagan Datuk, the Chinese eventually took over the town and surrounding areas by the river and sea. The Malay moved closer to the centre of the district to work on their agricultural land. As a result, Chinese culture influenced the architectural style, particularly in the commercial and residential areas.

NODES SUITABILITY ANALYSIS

Vegetation Distribution Waterfront Lack of vegetation Institution Landscape Coconut tree as its · Express institution and historic value is civic buildings function expressed through its Usage of palms and facilities architectural ornamental trees style Rural Landscape Shop Houses Enclave · This areas consists Semi-resident area that of small portion consists street planting residential area and five-footway area Characterised by Occupants fill the fivenatural environment. footway with ornamental agriculture activities, and cultural potted plants settlement pattern and edible plants such as and traditional life Citrus microcarpa and Capsicum annuum **Dataran Bagan Datuk** Well planned tree arrangement for aesthetic value and shelter for Figure 10: Vegetation distribution within Bagan Datuk town visitors Mainly consists coconut trees to represent district's

Figure 10 shows a few planting concepts found throughout the town. Each concept reflects the environment in which it is located. Existing planting concepts include an institution landscape, a traditional rural landscape, Dataran Bagan Datuk, a waterfront landscape, and a shophouse enclave. It can be determined that the majority of the town area is suitable for being proposed with a visitor-based concept that is grounded in Bagan Datuk's historical context and identity. Another area near the residential area is more suitable for a community-based planting concept, which will strengthen the population's sustainable living.

SITE SYNTHESIS

agricultural value

Site synthesis concludes two areas for improvement: public realm enhancement and sustainability conservation. Figure 16 demonstrates public realm enhancements that primarily focus on existing and potential public realms such as the Bagan Datuk waterfront, Dataran Bagan Datuk, pedestrian main spine, and back lane and alleys surrounding the shophouses enclave. The waterfront will be revitalised by new activities that are appropriate for the historic built environment, and Dataran Bagan Datuk will become the primary platform for the locals' sustainable living. In terms of town connectivity, the development will prioritise pedestrian networking, user transit, public transportation nodes, and wayfinding nodes. These strategies aim to improve the legibility of the town connection and to provide visitors with clear entry points.

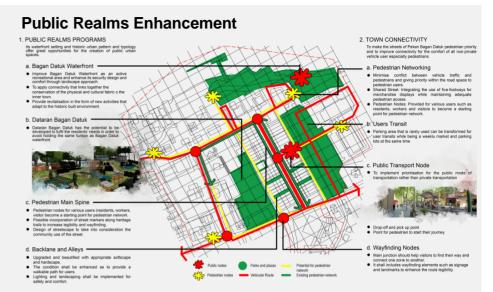


Figure 11: Synthesis map of Bagan Datuk town

Sustainability Conservation



Figure 12: Sustainability conservation of Bagan Datuk town

Within Bagan Datuk town, sustainable conservation emphasises both constructed heritage and natural environment. To strengthen Bagan Datuk's identity, historic buildings and streetscapes in the shophouses enclave should be preserved. Meanwhile, the natural environment must be conserved in order to ensure long-term viability. It instills k-knowledge in communities in order to ensure economic, social, and environmental sustainability.

CONCEPTUAL AND SCHEMATIC

CONCEPT DEVELOPMENT

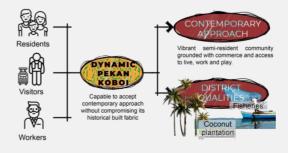


Figure 13 shows a dynamic living town with residential, public domains, and civic structures that are always changing in terms of functional usage, social structure, political environment, and economic development.

Figure 13: Dynamic Pekan Koboi concept development

THEME

Dynamic Pekan Koboi is grounded by the theme of the dynamic historic living city. It shall focus on such matters;

- 1. Town planning: Public realms, town connectivity, and tourism transit
- 2. Cultural sustainability: Maritime development, fisheries activities, and coconut plantation



DESIGN IDEAS

Public Realm Enhancement



Figure 14: Public realm enhancement design ideas

Environmental Conservation



Figure 15: Environmental conservation design ideas

Town Connectivity



Figure 16: Town connectivity design ideas

DESIGN STRATEGIES

The design strategies, which are based on the findings of the site synthesis, are primarily focused on improving public realms, conserving the natural environment, and strengthening town connectivity. The following are the design strategies:

- 1. Public Realm Enhancement
- Contemporary Approach: Incorporated into public spaces as catalysts for urban renewal.
- Cultural sustainability: incorporating local identities into public spaces.
- 2. Environmental Conservation
- Sustainable Living: Provides a platform for knowledge sharing and promotes k-knowledge.
- Stormwater Management: Improve stormwater management by taking a more ecological and low-maintenance approach.
- 3. Connectivity in the Town
- Prioritization of pedestrians: Consider walking to be the foundation of a transportation system.
- Public Transportation: Prioritizing highly productive modes of transportation, such as transit, as the key to efficient, long-term mobility for district residents.

SPACE PROGRAMMING



Figure 17: Space programming of Bagan Datuk town.

Figure 17 shows there are three main spaces in Bagan Datuk town which are the Shophouses Enclave, User Transit Area, Bagan Datuk Waterfront and Smart Village.

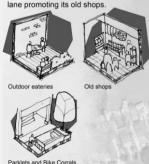
SCHEMATIC PLAN



Figure 18: Schematic plan

A. Shophouses Enclave

Historical shophouses become the identity of Pekan Koboi and it brings visitors down to its childhood memory lane promoting its old shops



B. User Transit

The node for both private and public transportations that provides shelter for buses and bicycles, and a multipurpose parking that acts as the weekly market plaza



C. Bagan Datuk Waterfront

Catalyst for urban renewal that provids destinations for event and festivals, recreational activities, entertainments and business opportunities.



D. Smart Village

Platform for knowledge sharing that promotes K-knowledge for social, environment and sustainability through smart and sustainable technology.

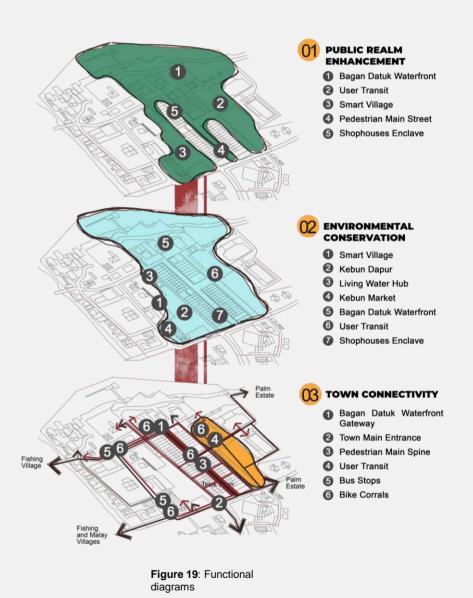


E. Administration

Civic buildings and admistration area help to assist the district as a town center and provides public services for communities.



FUNCTIONAL DIAGRAM





DETAILED DEVELOPMENT PLAN

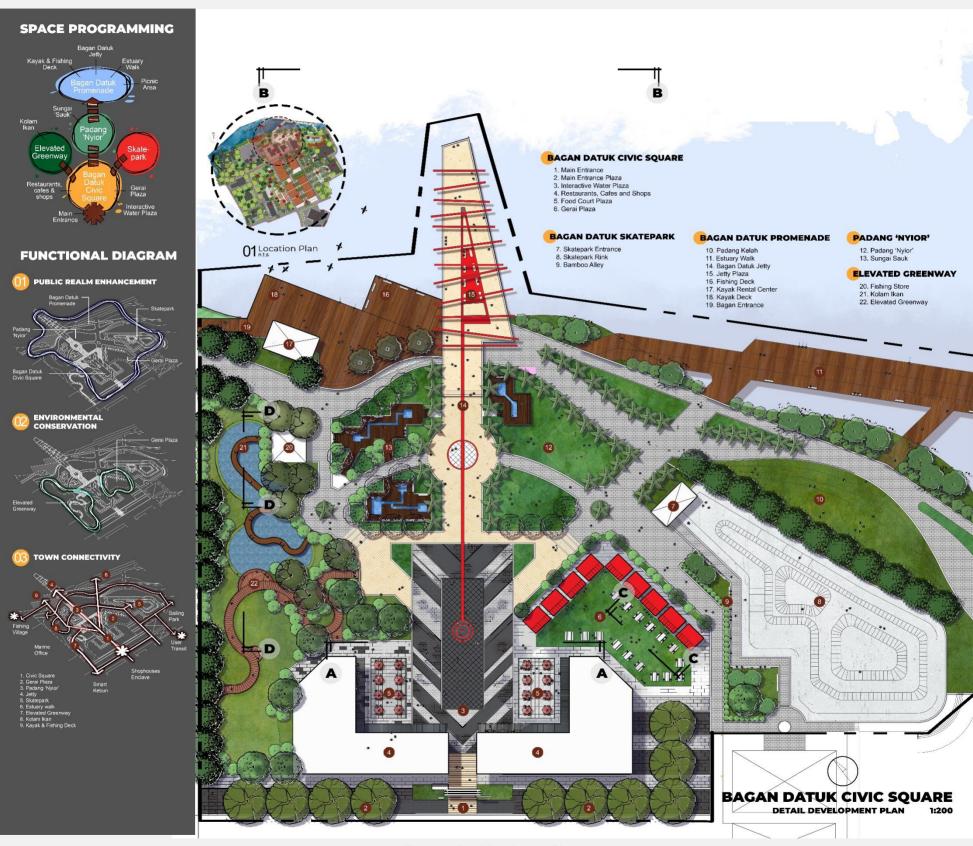


Figure 21: Detail Development Plan



CONCLUSION

Bagan Datuk town, as important as historic urban landscape conservation is, also requires immediate action to strengthen its contemporary approaches. Vibrant and diverse programmes should be offered to improve opportunities for locals to enjoy themselves and to support commercial activities. Bagan Datuk's waterfront will become a new catalyst for contemporary activities without jeopardising the town's historical identity.

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