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College of
Built Environment

Poster Book

IIIDBEE X 2023
20 JANUARY 2023
*International Invention, Innovation & Design Exposition
for Built Environment and Engineering 2023*

**College of Built Environment
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Generations of Professional Excellence

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URBAN RENEWAL DEVELOPMENT OF AFFORDABLE HOUSING IN TAMAN FREE SCHOOL, PENANG

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INTRODUCTION

Affordable housing was often seen as a last resort for low-income families, with substandard living conditions, poor maintenance, and inadequate amenities. The focus was mainly on providing shelter, rather than creating livable and safe communities. In recent years, there has been a shift towards creating more comprehensive and sustainable affordable housing developments. These developments now often include mixed-income housing, quality amenities, and a focus on transit-oriented development to improve access to jobs and services. Many affordable housing projects now incorporate safety measures and community policing programs to create safe and secure living environments for residents.

OBJECTIVES

1#

Develop mixed-income housing with high-quality amenities to **improve overall quality of life** for residents.



3#

Incorporate safety measures to ensure residents feel safe and secure in their homes and surrounding neighborhoods.

2#

Prioritize transit-oriented development to increase access to jobs, services, and amenities for residents.

NOVELTY

- DESIGN**
Design approach are based on the situations in Pulau Pinang.
- CRITERIA**
Affordable housing that emphasise criteria of TOD and liveable
- SOCIAL IMPACT**
Taking green neighborhood and CPTED approach to tackle societal problem in high-development

QUALITY OF LIFE
Green Neighborhood
Active Community

TRANSIT-ORIENTED DEVELOPMENT
Public Transport
Walking
Biking

PLACES
CPTED
Natural Surveillance

Urban Soul

ISSUES / PROBLEM STATEMENT



FINDINGS



AFFORDABLE HOUSING

- QUALITY OF LIFE**
 - Relation to the built environment
 - Accessibility for people
 - Opportunities for social interaction
 - Community engagement.
- TRANSIT ORIENTED DEVELOPMENT**
 - Proximity to public transportation
 - Affordable housing
 - Sustainability
 - Mixed-use development
 - Walkability and bikeability
- PLACES**
 - Safety
 - Activities
 - Access to nature and green spaces

Urban Soul
A design framework on urban renewal development of affordable housing that emphasise liveable impacting quality of life, transit-oriented development and places.

OUTPUT

COMMERCIALIZATION



Housing Developer



Government Agency that offer Affordable Housing

RECOGNITIONS

CONCLUSIONS

2ND RUNNER-UP

Competition Urban Renewal Masterplan in Taman Free School, Penang.
(PlanMalaysia@Pulau Pinang)

Urban renewal development of affordable housing can improve communities by promoting sustainable transportation, increasing access to amenities, and providing affordable housing options. However, it is important to involve local stakeholders and consider potential negative impacts on existing communities to ensure that the goals align with their needs and values.

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