



CERTIFICATE OF MERIT (DESIGN)

TO-BE-BUILT HOUSING

Parc Clover @ Tengah

Project Overview

Located within the lush greenery of Tengah town, Parc Clover @ Tengah is set to be a public housing development which offers a glimpse of what future community living in Singapore might look like.

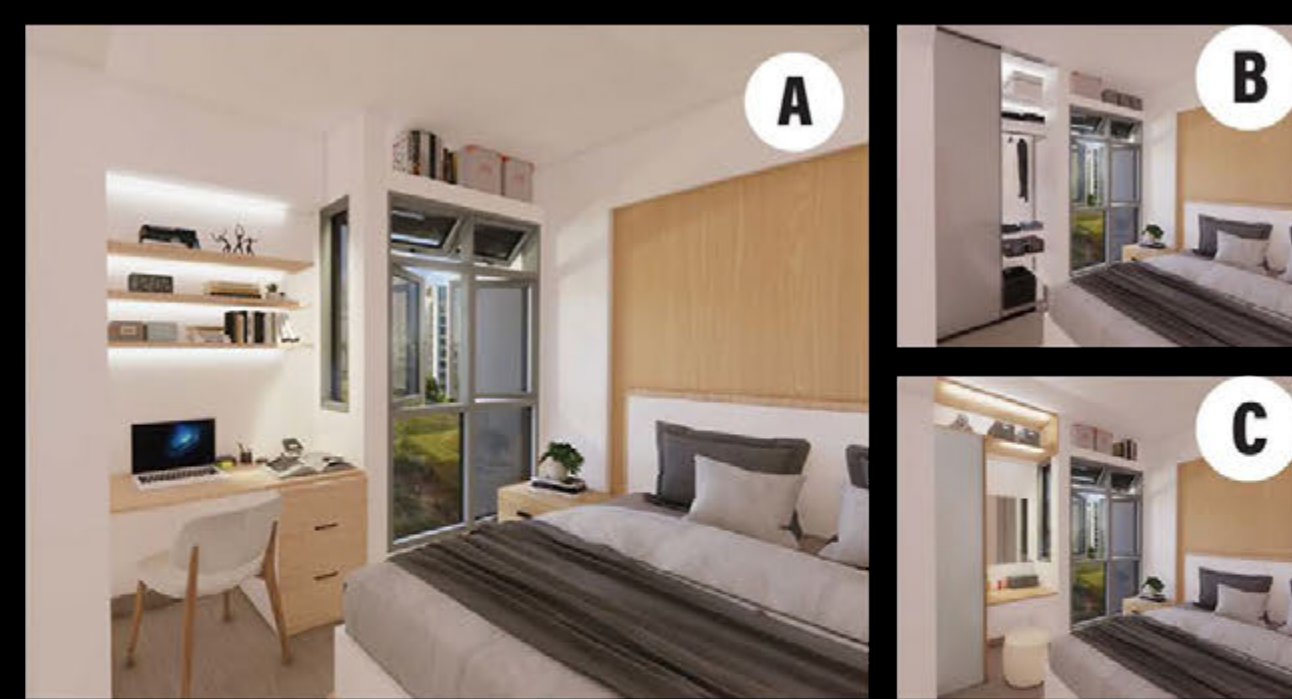
Tengah is the first HDB town with a car-free town centre, and the precinct is designed to be pedestrian-friendly with minimal driveways, and a new multi-storey car park typology where the parking decks are elevated to create sheltered landscaped spaces at the ground floor. These spaces serve as a socio-communal hub that encourages community interaction.

To encourage an active and healthy lifestyle among residents, the roof of the multi-storey car park will have a sky sports park with a jogging track and fitness amenities.

Project Achievements

- International Design Awards (IDA) 2020 – Bronze in Architecture Categories / Low Cost Housing
- Global Future Design Awards 2021 – 2nd Award Winner

ADAPTABLE AND FLEXIBLE SPACES



The niche spaces in the bedrooms allow residents the flexibility to configure the spaces to their own needs. This unique bedroom layout specially caters to hybrid work-live-play arrangements that are becoming more prevalent nowadays.

CLIMATICALLY RESPONSIVE FACADE

The 3rd Gen Solar Roof consists of vertical solar PV panels. The energy collected will be used to power the Centralised Cooling System (CCS). The PV panels are neatly integrated with the building facade for a uniform architectural expression.

The facade fins follow a rhythmic and colour scheme that draws inspiration from a bamboo forest. The horizontal and vertical fins provide sunshading and rain protection.

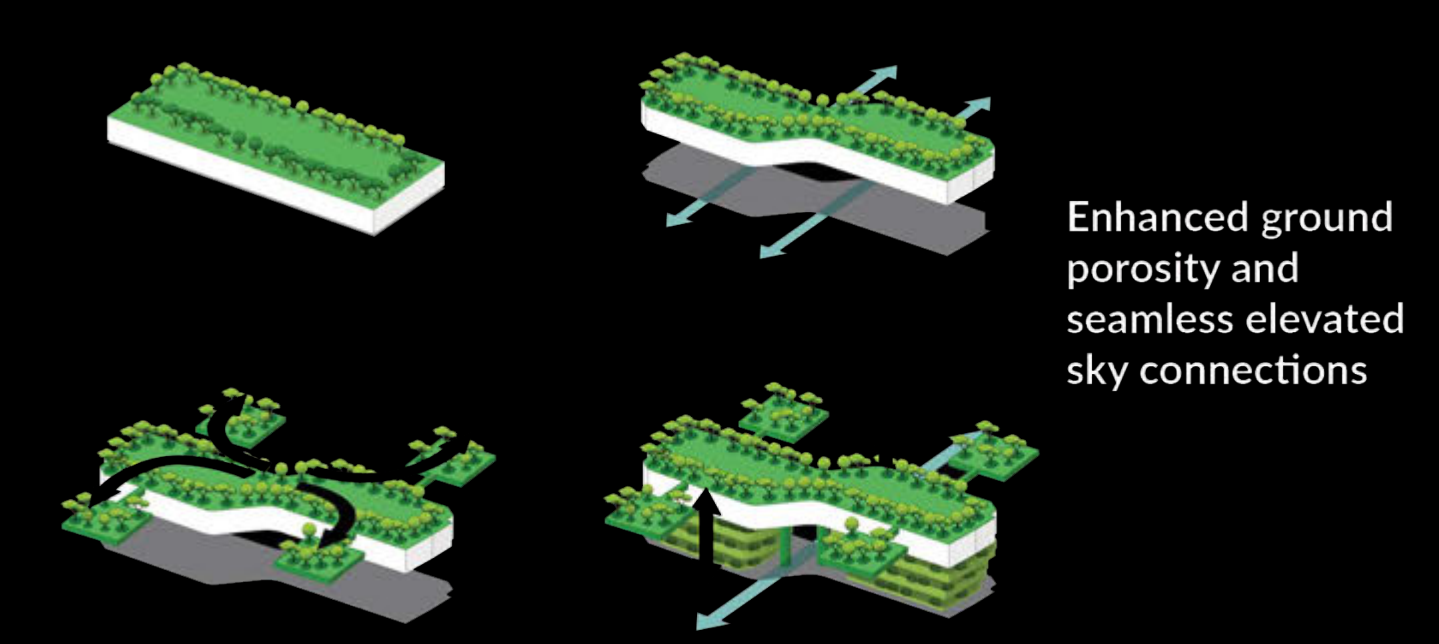
The niche spaces in the bedroom area act as additional room areas that could be configured to a resident's preference. The recess area also has sunshading properties and serves as a fire break.



SMART SYSTEMS INTEGRATION

- CENTRALISED COOLING SYSTEM**
Residents have the option of subscribing to a Centralised Cooling System (CCS) or a more energy-efficient cooling solution than conventional air-conditioning systems.
- SMART DESIGN THROUGH COMPUTATIONAL FLUID DYNAMICS**
Computational Fluid Dynamics (CFD) simulations were employed to assist in the design of the development based on optimised windflow and environmental conditions.
- ELECTRIC VEHICLE CHARGING**
Infrastructure for electric vehicle (EV) charging lots will be provided to facilitate future residents to adopt greener vehicle alternatives.
- PNEUMATIC WASTE CONVEYANCE SYSTEM**
An automatic waste collection system using high-speed pipes to transport household waste to a centralised bin centre. This achieves a cleaner and more hygienic environment, reducing odour and smells from individual refuse chutes.

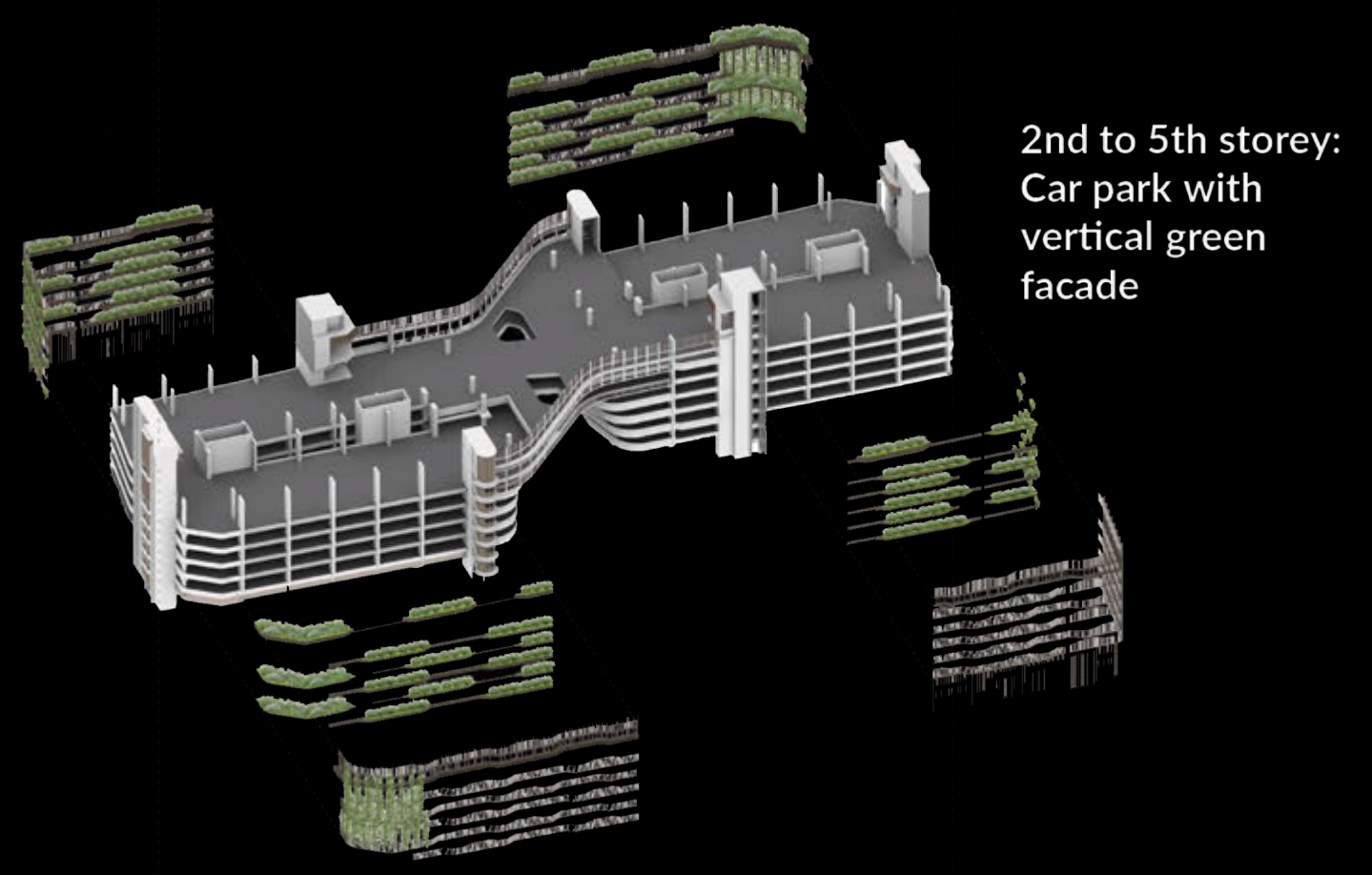
STITCHING PLACES HORIZONTALLY AND VERTICALLY



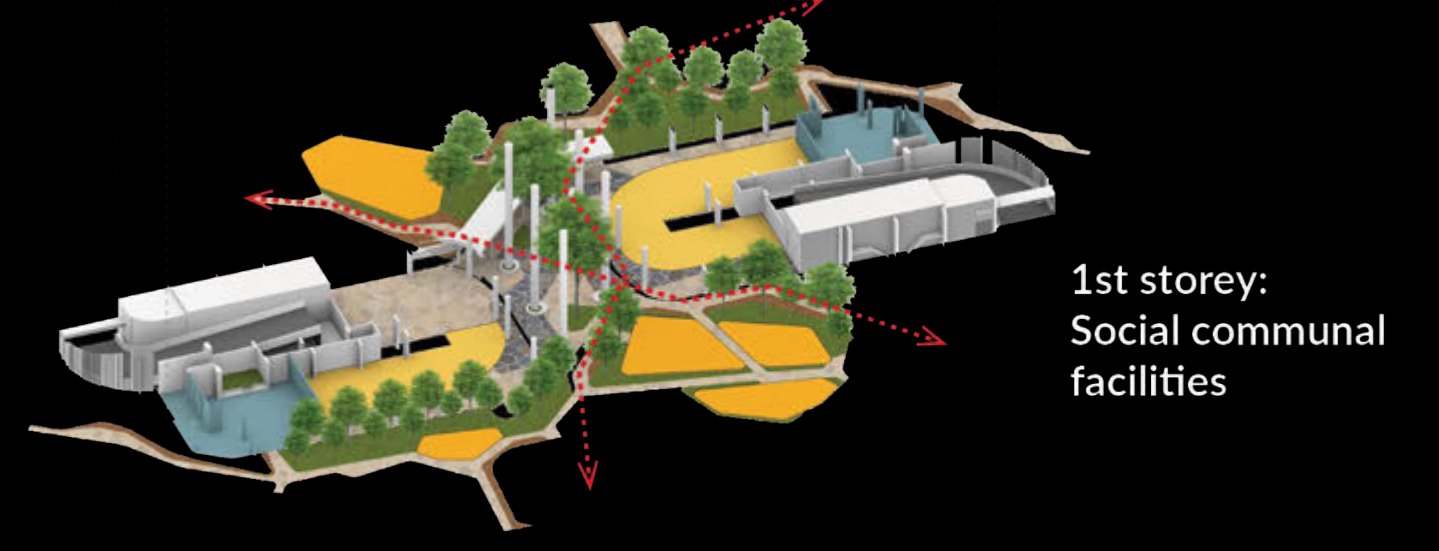
Enhanced ground porosity and seamless elevated sky connections



Circuit training facilities integrated with roof garden at Sky Sports Park to promote active lifestyles



2nd to 5th storey: Car park with vertical green facade



1st storey: Social communal facilities

