PETALING JAYA RING CITY.

Concept

Petaling Jaya, Selangor was a new tabularasa and the "future city" of Kuala Lumpur, hence pitching it for a remake of Future City has a significant meaning. It has the fundamentals and criteria to achieve our vision with a good infrastructure backbone, demographics and public open spaces. As it is already a bustling city, the township will indefinitely have to deal with the increase in population, climate change and the scarcity of resources- food, water, energy, habitat and more in 50 years.

The masterplan and individual site intervention is a collaborative design exercise that includes landscape architect and urban planners in the core team. The 1.5 square kilometers site may not be fully elaborated but it shows a work-in-progress at a foreseeable future in 2070. This proposal aims to tackle these issues, by raising future Petaling Jaya residents' quality of life with 4-3-2-1 lifestyle, a 4-work, 3-rest day per week schedule. Residents would take 2 day among their 3-day weekend to do farming, encouring self-sustainability and 1 day left for personal time.

4 – 3 – (2 – 1)

work rest farm hobby

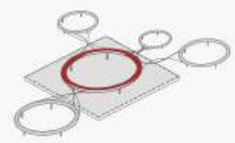
Methodology

1. Resource

Resource will be a type of cryptocurrency in the future. As the scarcity of resource like food, clean water and energy happens, anyone with unused resource can trade via online platforms. It can be traded within users for other resources that they lack of or money.

2. Rewilding

Re-forestation and bring back nature to the city. The various layers of tropical rainforest enhance the air quality and carbon dioxide absorption in the city. Grey infrastructure to be upgrade, promote public transport, transform grey infrastructure into green infrastructure and rewilding purpose.



3. Reconnecting

The ring city concept can be applied in other areas and eventually be connected. Such as a Medical Ring City at the nearby University Malaya Hospital and Bangsar South Office Ring City.

2020's – current typology

Current typology in Petaling Jaya have several flaws. 4-5 lanes of traffic jam makes it non user-friendly for both pedestrians and drivers. Buildings are not interconnected to make moving within these vicinity easier. Green buffer itself isnt sufficient to provide enough good air quality for the area.

2040's – transition phase

Elevated ring platform to provide more options of public transport, easing traffic conditions. Building rooftops to convert to green roof and addition of green buffer to increase green ratio in that viscinity.

2070's – ring city

Autonomous vehicles to be introduced in ring platform and linkage between ring platform and surrounding buildings to provide user-friendly experience to locals. Several coperations can be centred in a main building to make way for more opportunites for other developments.

E-Sports Arena

E-Sports Arena

The Iconic

The Pebble

Transition Hub

Elevated Common Ground

City Ring

Depot

Taman Jaya Lake

Water Retention Pond

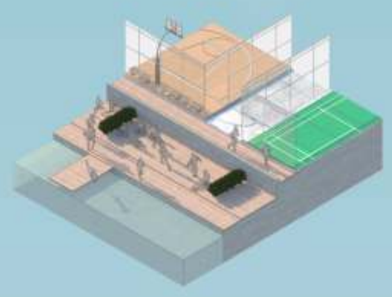
Terraced Housing Community

New Civik District

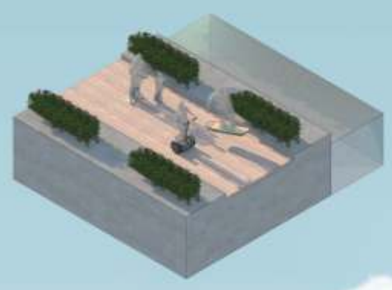
Life-Cycle House

Sg. Penchala Green Corridor

Autonomous Transportation

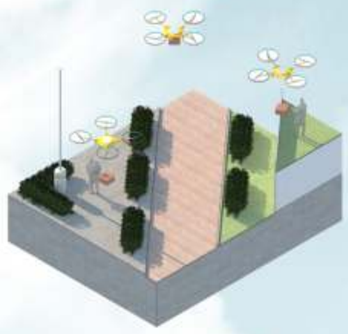


Community-based facilities sharing



Levitation Active Transport

VR and Hologram Device



Drone Logistic

Reforestation Strategies

In order to restore the nature and biodiversity in the city, multilayer of tropical rain forest species especially dipterocarpus family species is brought back to be part of the landscape of the city.

The restoration could bring several benefits to urban area, such as to fight climate change, to store water, remove carbon dioxide and increase oxygen storage. It also important to be catchment in the city to avoid flash flood.

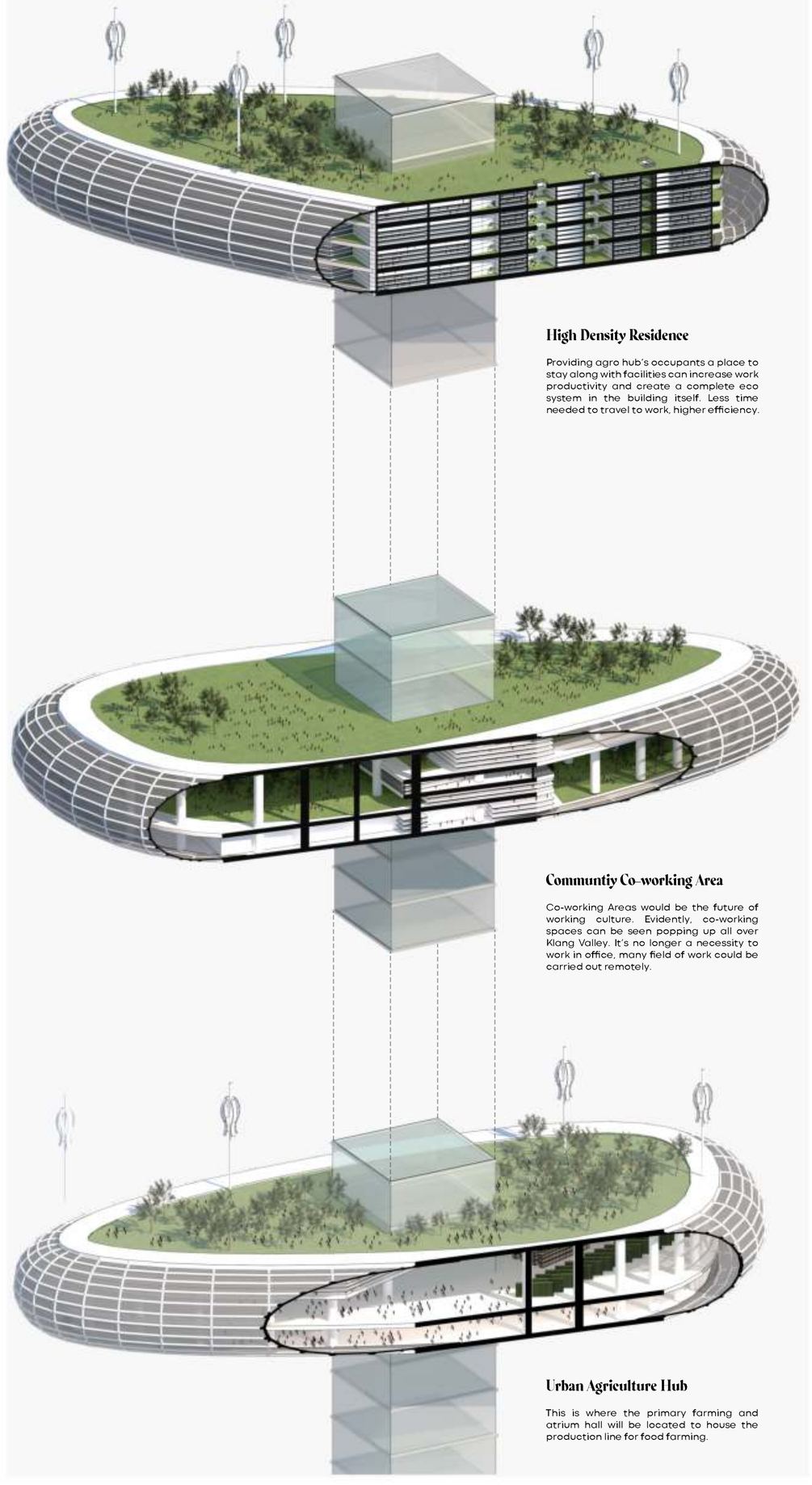
Civic District

Consolidation of all civic buildings to create and efficient civic tower. With the development of e-gov portals linked to Putrajaya, many public services can be streamlined and reallocate the civil service resources to other sectors. The future DBPJ (Dewan Bandaraya Petaling Jaya) will also implement self governance with elected city councillors representing each districts in the city hall.

The Pebble

Petaling Jaya's future for Agro Hub

It's concept is to be an Urban Epicentre that grows vertically,locating all 3 typology- Production, Management and Residence under 1 building, within a minimal sized plot of land, as an approach to a resilient urban living. It the middle of the city, it creates a new public space as social and cultural infrastructure tied with food production and water recycling system; a centre for urban sustainable living. It challenges how people produce food and the way people consume it in the city.



High Density Residence

Providing agro hub's occupants a place to stay along with facilities can increase work productivity and create a complete eco system in the building itself. Less time needed to travel to work, higher efficiency.

Communtiy Co-working Area

Co-working Areas would be the future of working culture. Evidently, co-working spaces can be seen popping up all over Klang Valley. It's no longer a necessity to work in office, many field of work could be carried out remotely.

Urban Agriculture Hub

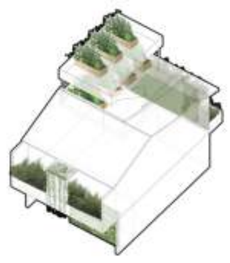
This is where the primary farming and atrium hall will be located to house the production line for food farming.

Taman Jaya Aquaponic Lake

Aquaponic farming system was imposed into the Taman Jaya lake as revitalization to the area and surrounding environment. In the proposal, the aquaponic farming lake will bring impact to the surrounding environment and user as it was highly effective, productive and self-sustainable with minimum care needed. The mutually-balanced ecosystem that yields fast-growing organic produce and the toxin-free fish will become the future way of growing, harvesting and eating the food.

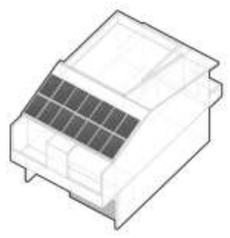
1. Greeneries

Green ratio is raised by implementing green areas on extended areas and vertically. Green wall could be errected to provide higher air quality and privacy to home occupants. Part of the roof is demolished to have flat roof for urban farming at home or could be converted to green roof.



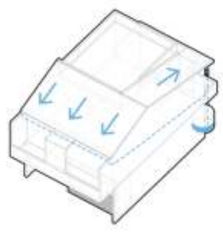
2. Renewable Energy

Self sustaining homes are the future. In the foreseeable future, homes will be generating clean, enviroment-friendly energy for themselves, with excess amount to be sold back to authorities.



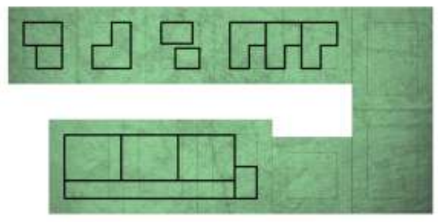
3. Rain Water Harvesting

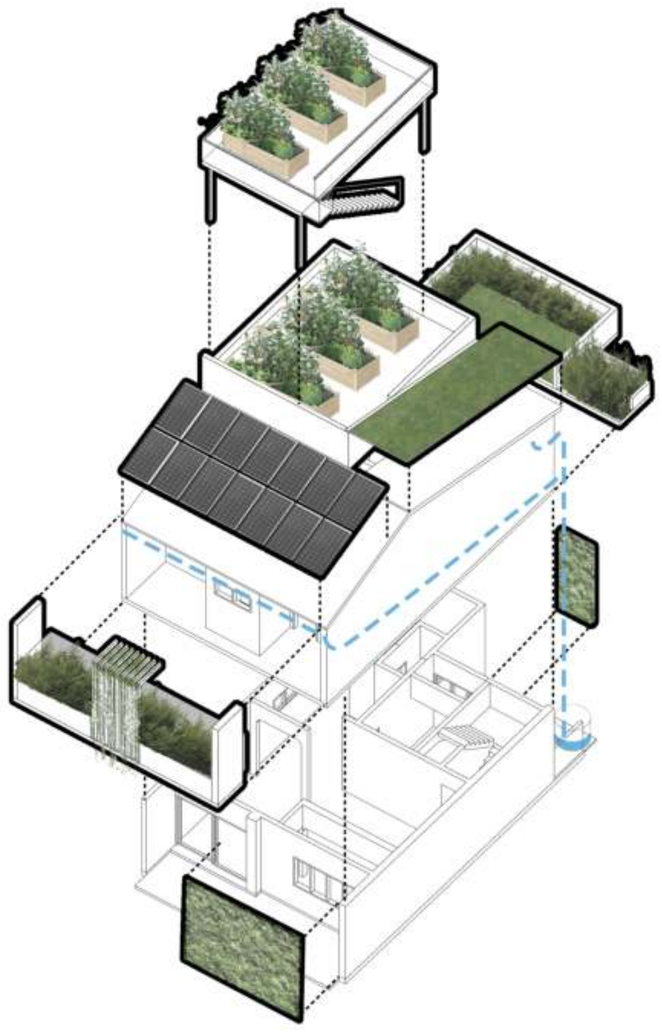
World Resources Institute quotes that Water Stress-the measure of demand relative to supply in a given place, will likely increase rapidly across the globe in the next few decades, as more people compete for limited surface-water supplies. Rain Water Harvesting systems will definitely be the norm in future residential architecture.



Greener, Better homes.

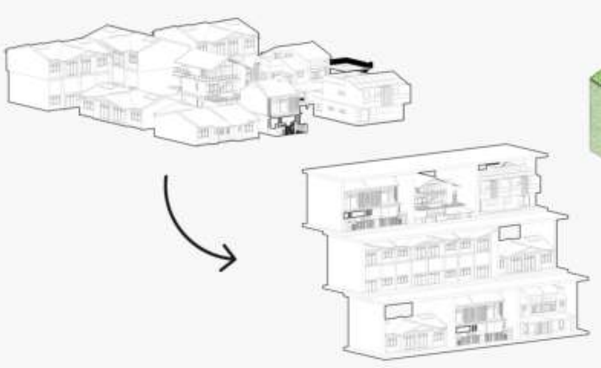
Sustainability will definitely be part of our lifestyle in the future, hence this initiative is to allow homes to achieve 100% green ratio. The idea is to extend built up area and convert extended parts to green area and use up parts of the house in the best way possible.

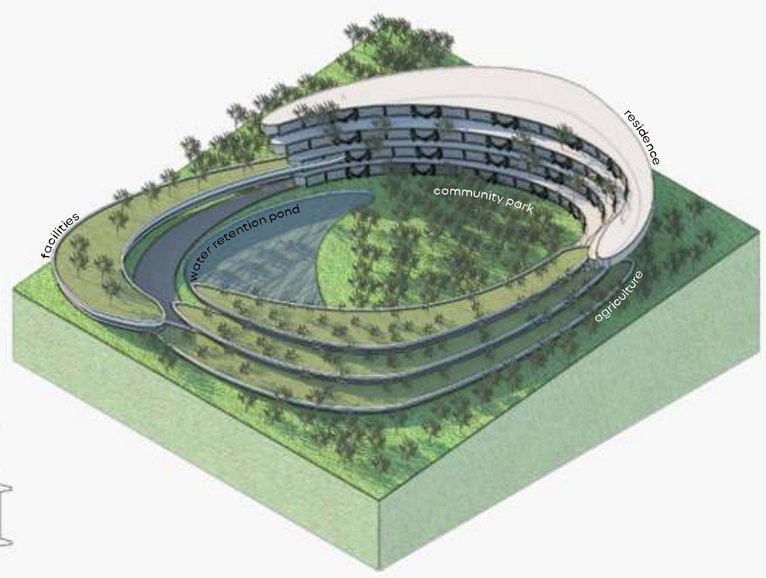




Terraced Housing Communtiy

In this proposal, it can have the same amount of population living in this area as it is now but still able to provide a lot more fascilities to enrich resident's life while rewilding site by having a community park and retention pond. This also includes a agricultural block to provide source of food.





Life-Cycle House

A normal residential house nowadays would typically have to go through renovation to accomodate occupants' way of life during their lifetime. This project initiates homeowners to convert their homes to dual-key residence, maximising the houses' potential. In result, it increases the house density to address the city's densification, while decreasing homeowners burden in affording a house.