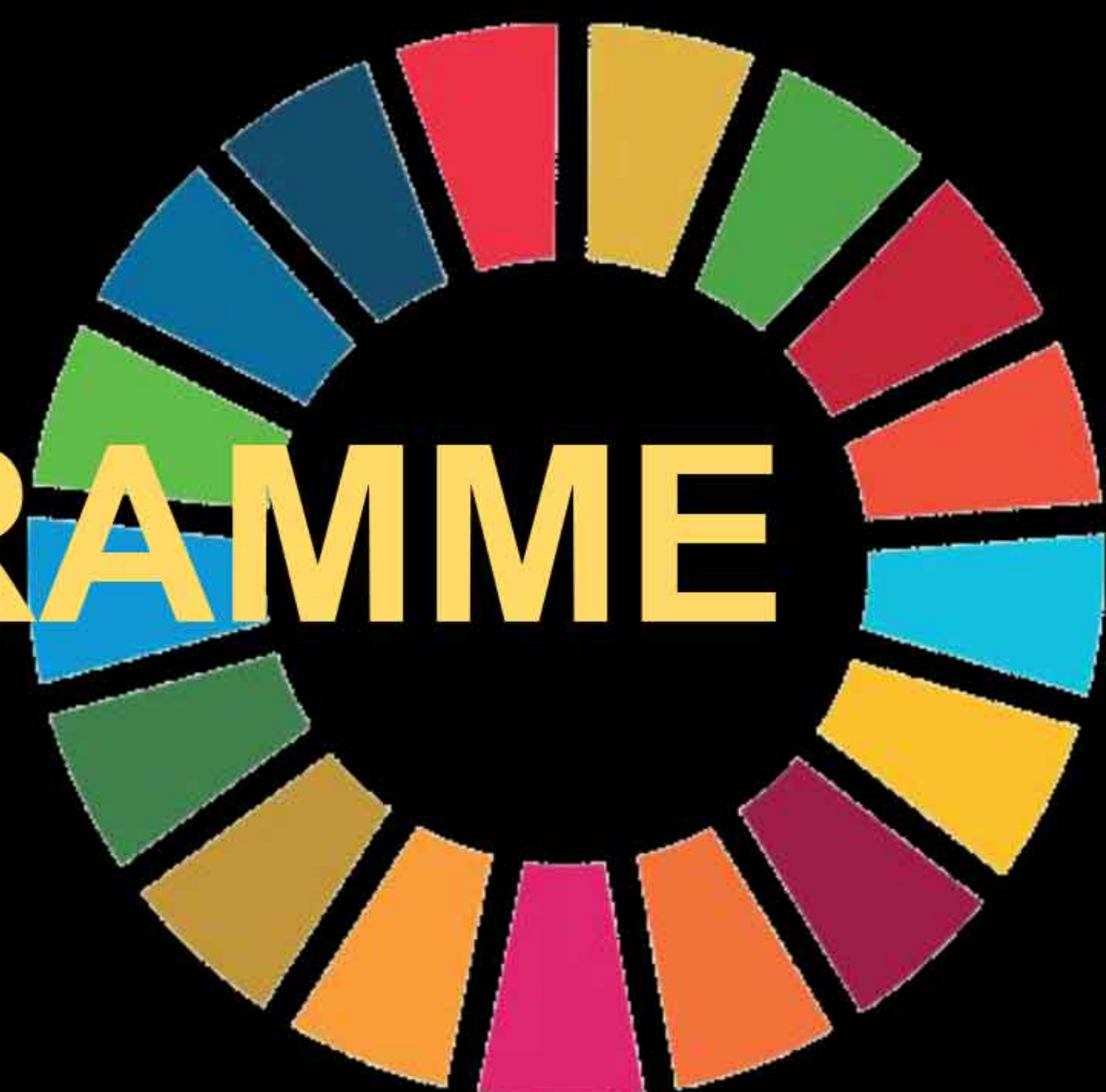




ASEAN SDG'S FC MODEL CITIES PROGRAMME

ECO EDU-RECREATIONAL CITY



**SIJANGKANG
MANGROVE PARK &
CUNANG BEACH**

Organizer:

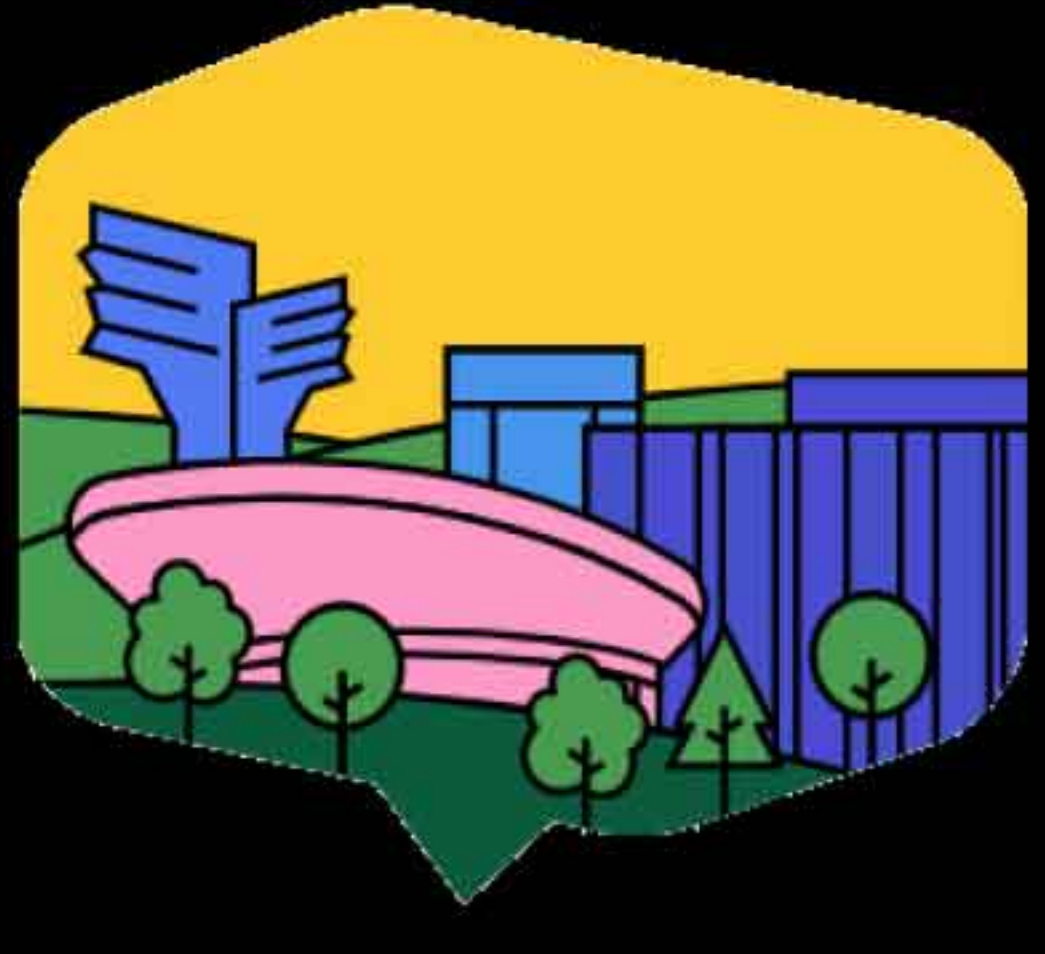


Institute of Global Environmental Strategy (IGES)

Funded :



The Japan-ASEAN Integration Fund (JAIF)



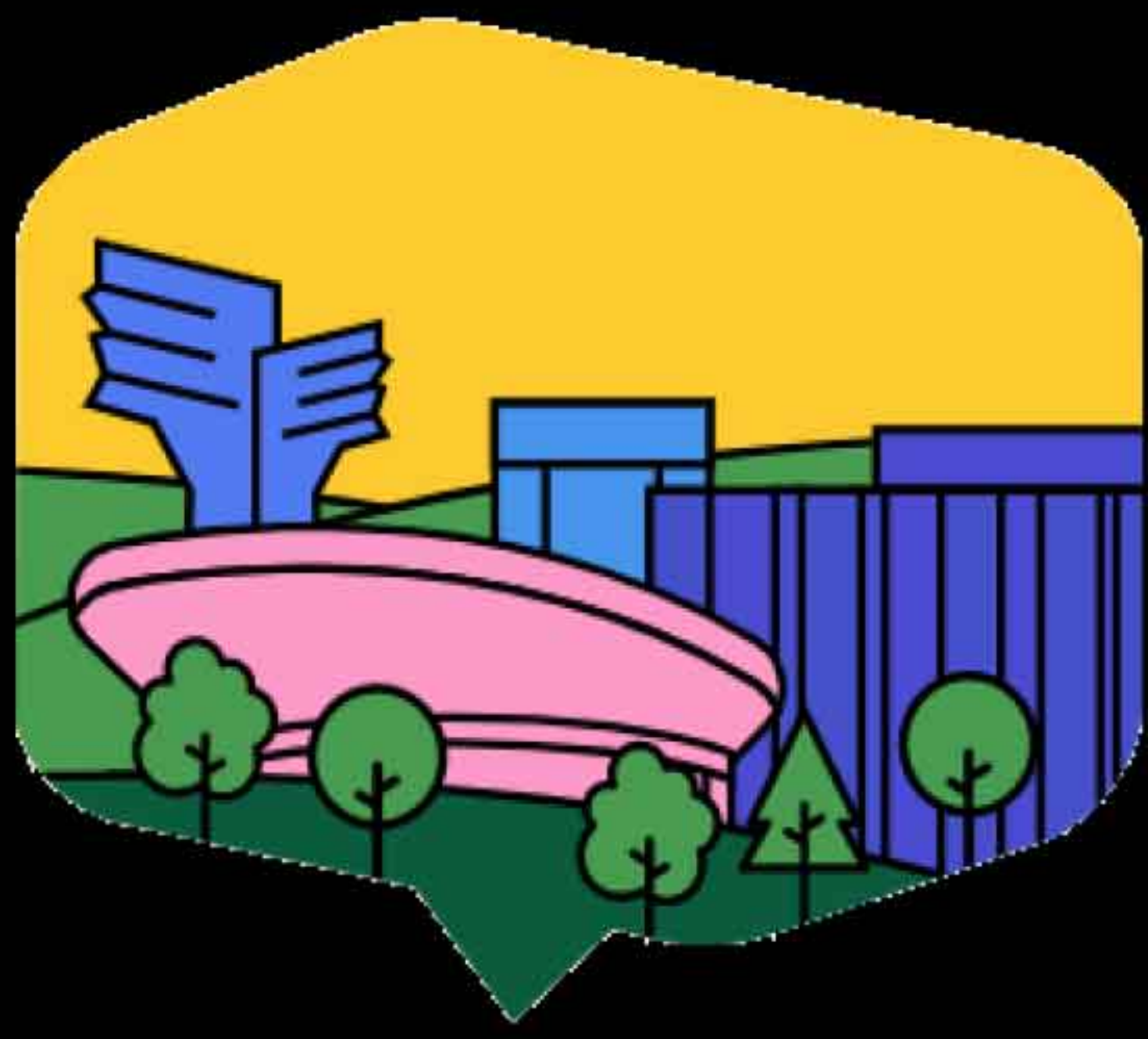
Background of the ASEAN SDGs-FC Model Cities Programme

The ultimate goal of the **ASEAN SDGs-FC Model Cities** is to support ASEAN cities in achieving inclusive, sustainable, resilient and dynamic development in line with ASEAN Vision 2020 by aligning city actions with the Sustainable Development Goals (SDGs) of the 2030 Agenda for Sustainable Development. To attain the goal, the Programme will support the planning and implementation of multi-benefit model projects, as well as developing the capacity of next generation cities, and sharing the experiences and knowledge generated from the Programme among ASEAN member states (AMS) to promote replication of innovative policies/good practices towards clean and green ASEAN.

ASEAN SDGs-FC Model Cities is organized by Institute of Global Environment Strategy (IGES) and funded by The **Japan-ASEAN Integration Fund (JAIF)**. MPKL has received a grant of USD40,000.00 to accomplish the programme.

Kuala Langat

Kuala Langat district covers an area of 85,770 hectares including an area of 3 nautical miles from low tide. Kuala Langat is one of the nine districts located in the State of Selangor Darul Ehsan. It is located in the Southern-west part of Selangor. It is located about 44 km from Shah Alam, the capital of Selangor. Kuala Langat District is bordered by Sepang and Klang Districts. To the north is the Klang District, To the East and South is the Sepang District and the Straits of Melaka is in the West of Kuala Langat District.



Profile Area & Demography Of Kuala Langat

Area
85,770 hectare's

Demography
Year 2020 : 307,708





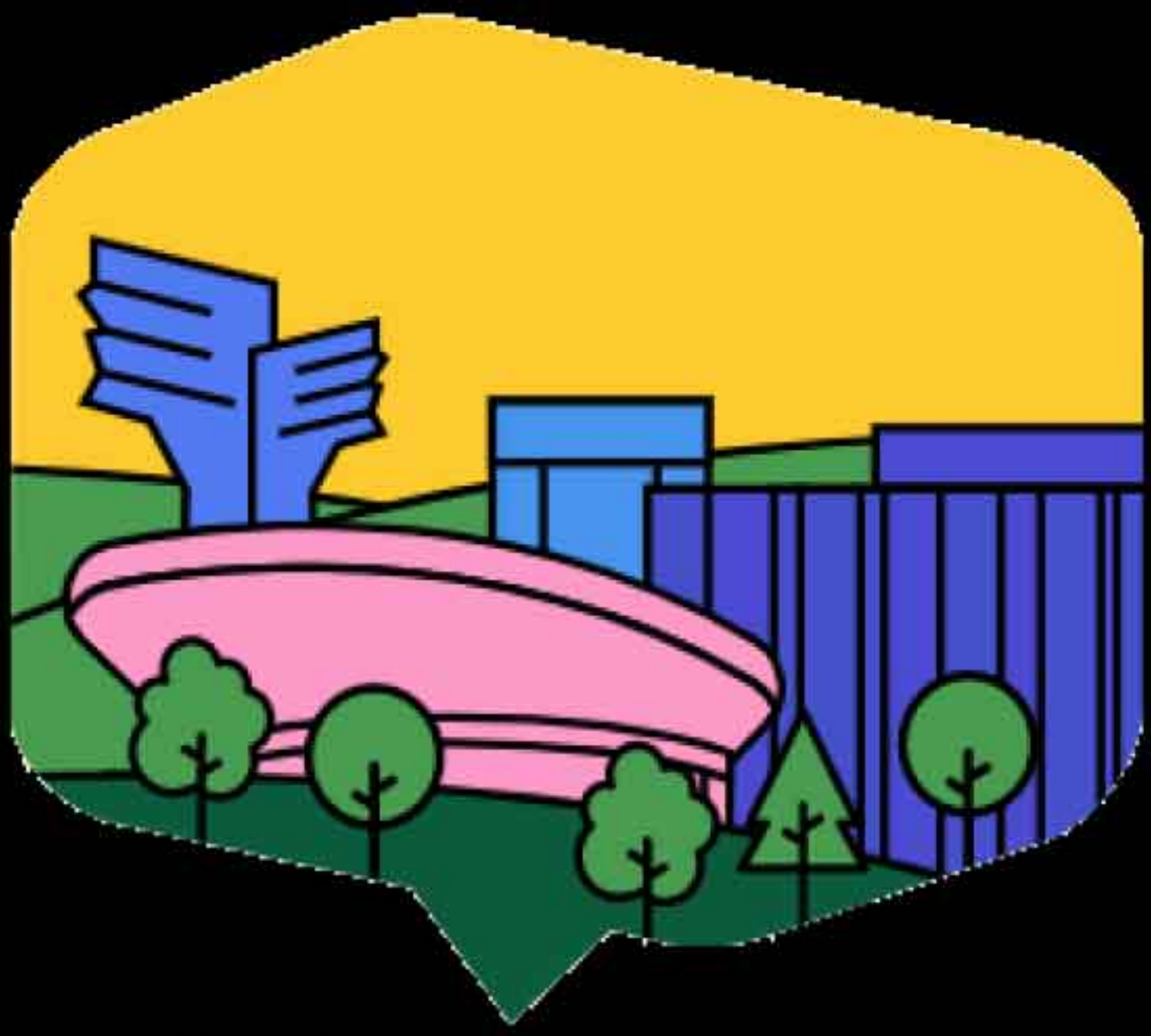
PROJECT SITE



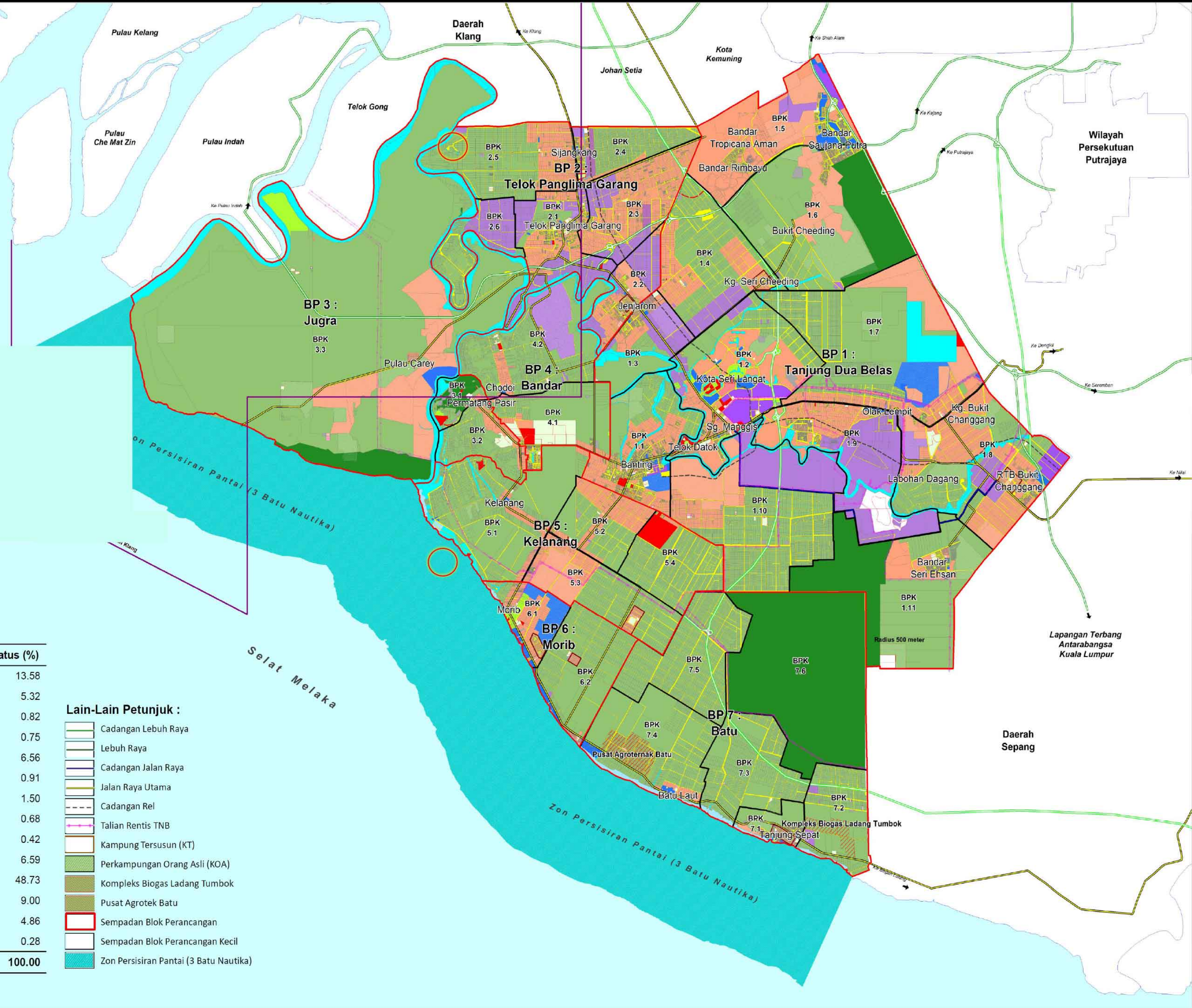
Sijangkang Mangrove Park is a mangrove forest and developed by a local community in Kampung Sijangkang started in a year 2015. They demonstrates strong initiative in waste recycling and mangrove replanting. The objective of the conserving this park is starting with transform illegal dump site into the mangrove recreational park with smart-partnership efforts lead and manage by the community.



Cunang Beach has 520 meter stretch of coastal area is endowed with the richness and beauty of sandy beach, mangrove forest and mud flats. Cunang Beach was adopted by the local Mah Meri Community since 2010, initially was to create a resting place or the fisherman after long travelling from the sea. However, it was eventually developed into an eco-tourism destination reflecting the Mah Meri's cultural heritage and the beauty of the mangroves.

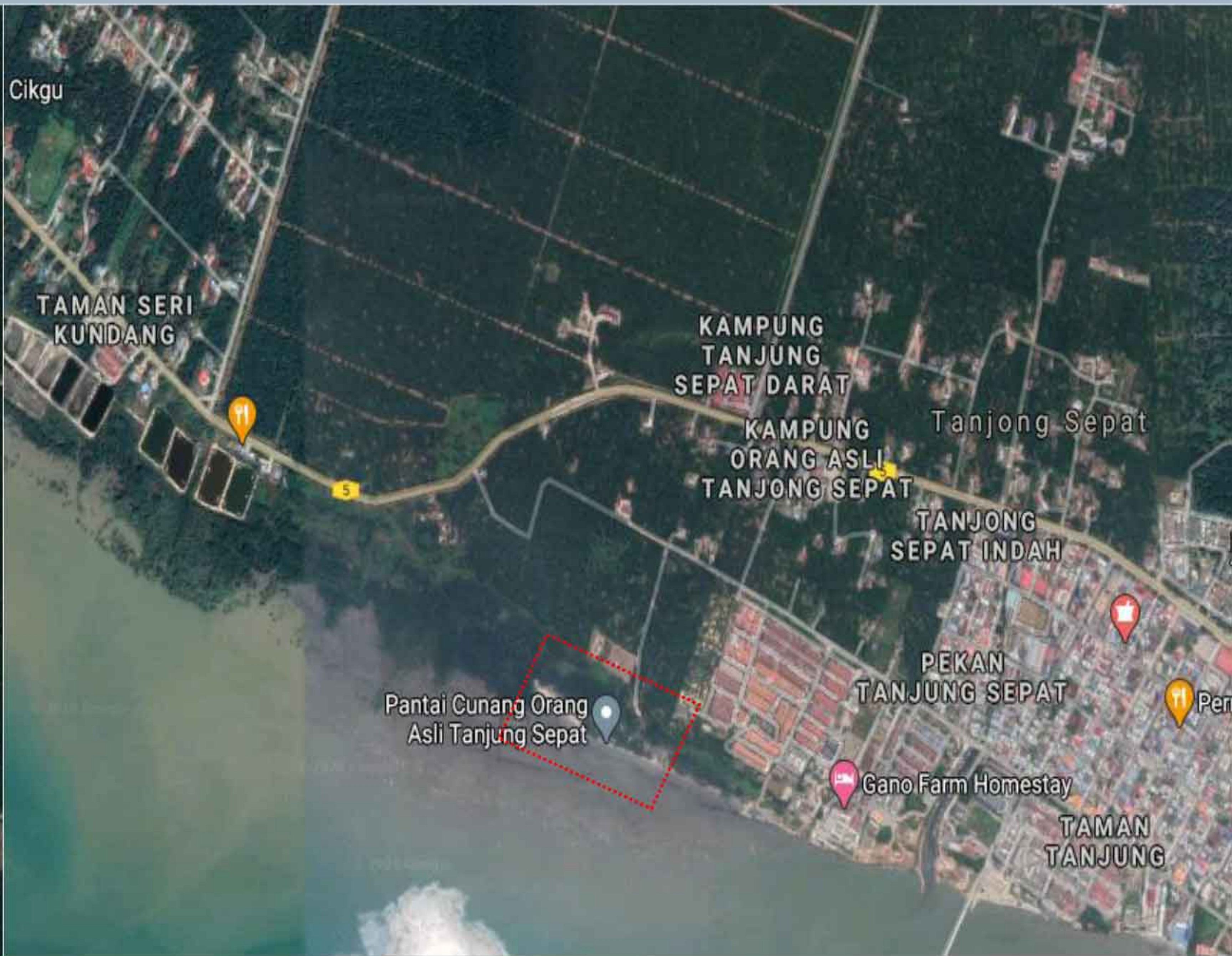


Project Site



Sijangkang Mangrove Recreational Park

Cunang Beach



Sijangkang Mangrove Park located at Kampung Sijangkang, Kuala Langat. It is about 12km from Klang along the Klang–Banting road and 48 km from Kuala Lumpur through KESAS Highway.

Cunang Beach is located approximately 95 km south of downtown Kuala Lumpur is a hidden gem, a fine white sand beach which is one of the best on the Selangor coastline



Vision & Project Goal

ECO EDU-RECREATIONAL CITY

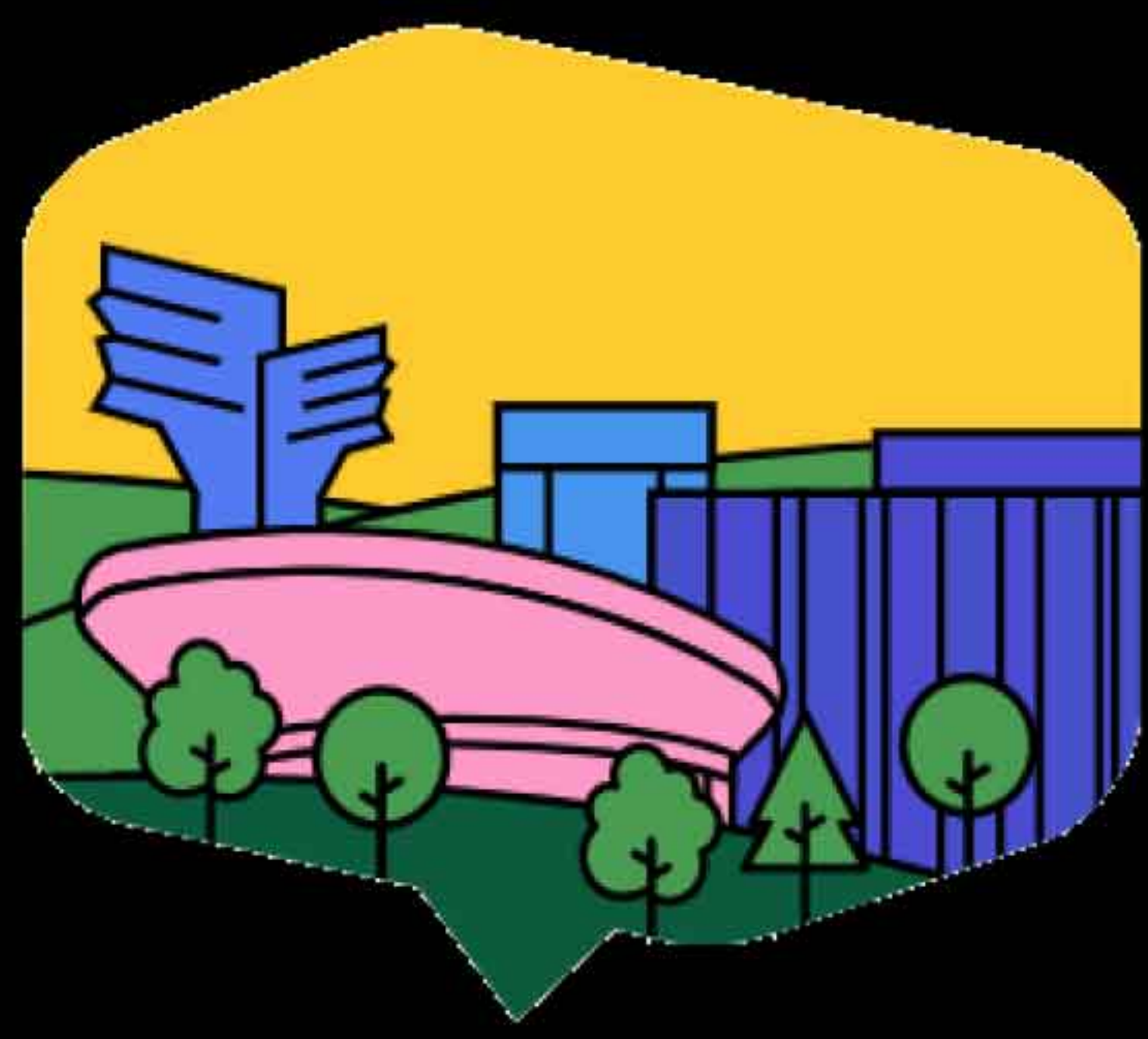
City Vision

“ECO, GREEN AND HEALTH CITY”

Project Goal

Offering an opportunity to interact with nature in such a way as to make it possible to preserve and enhance the special qualities of the site and its flora and fauna.





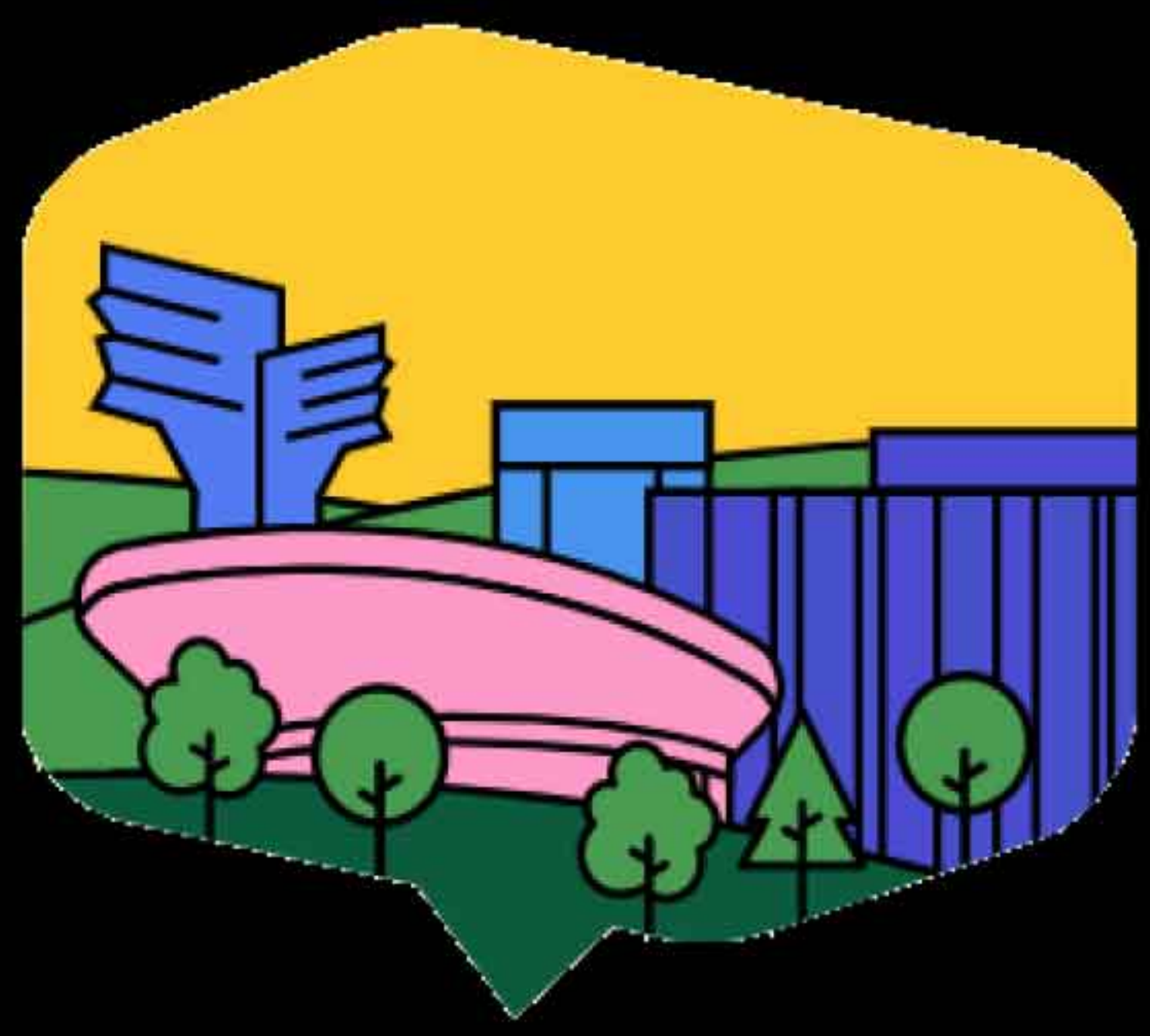
Project Sustainability

To ensure this project achieve the targets and sustain, the committee members will be given/hands on the methods in committee management through capacity building initiatives together with fortified promotions and publicity widely through media socials, awareness campaign and etc. using the specializing applications for marketing plan and management.

For the long term planning, through local government and other agencies that related will allocate this programme in Kuala Langat Local Plan 2030 as a potential tourism spot in the region.

SUSTAINABLE DEVELOPMENT GOALS



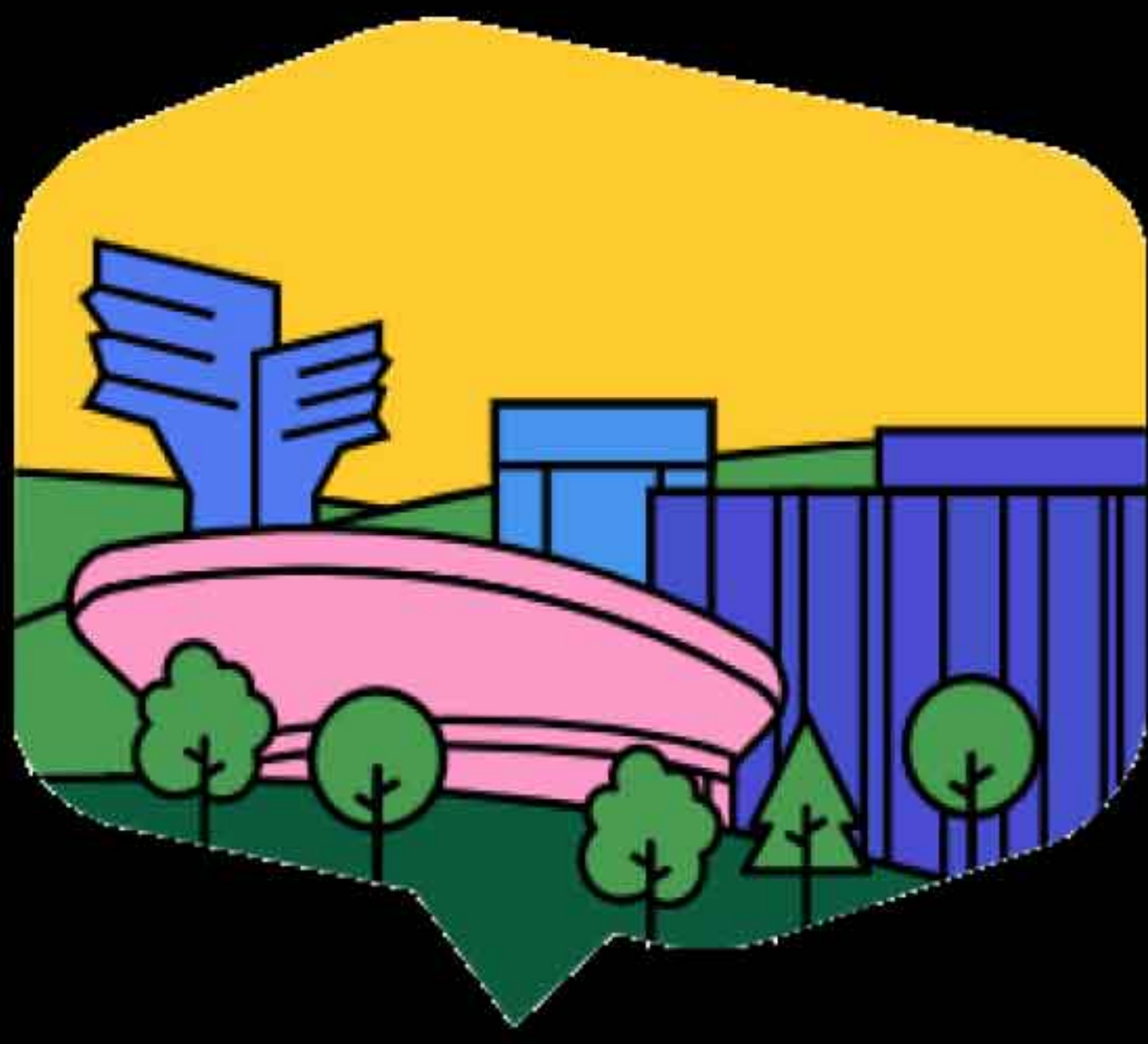


Project Description

This project represent an innovative bottom-up practice on environmental protection, inclusive development as well as upholding of cultural and heritage values. The community demonstrates excellent efforts and creativity in coastal protection, mangrove nursery and planting, waste – upcycling (compost, turning waste materials into furniture, artistic landscaping and decorative crafts) and beach cleaning.



This community-led approach in environment protection and beach management has not only conserved the integrity of the beach and mangroves, but generated new sources of income for the villages as a result of the growing popularity of the beach and mangrove among nature-loving urban residents.



PROJECT ACTION PLAN (ACTIVITY)

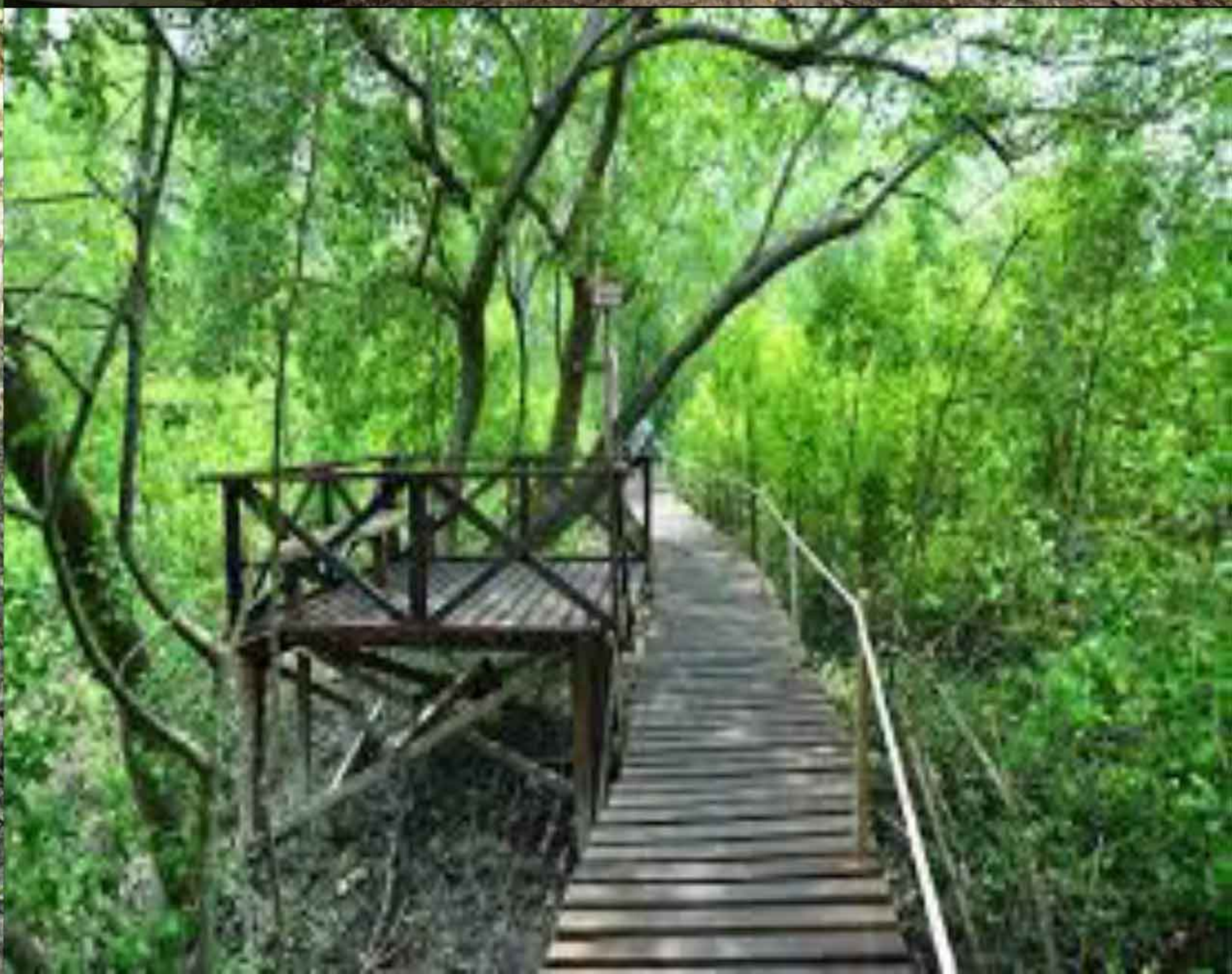
Capacity Building

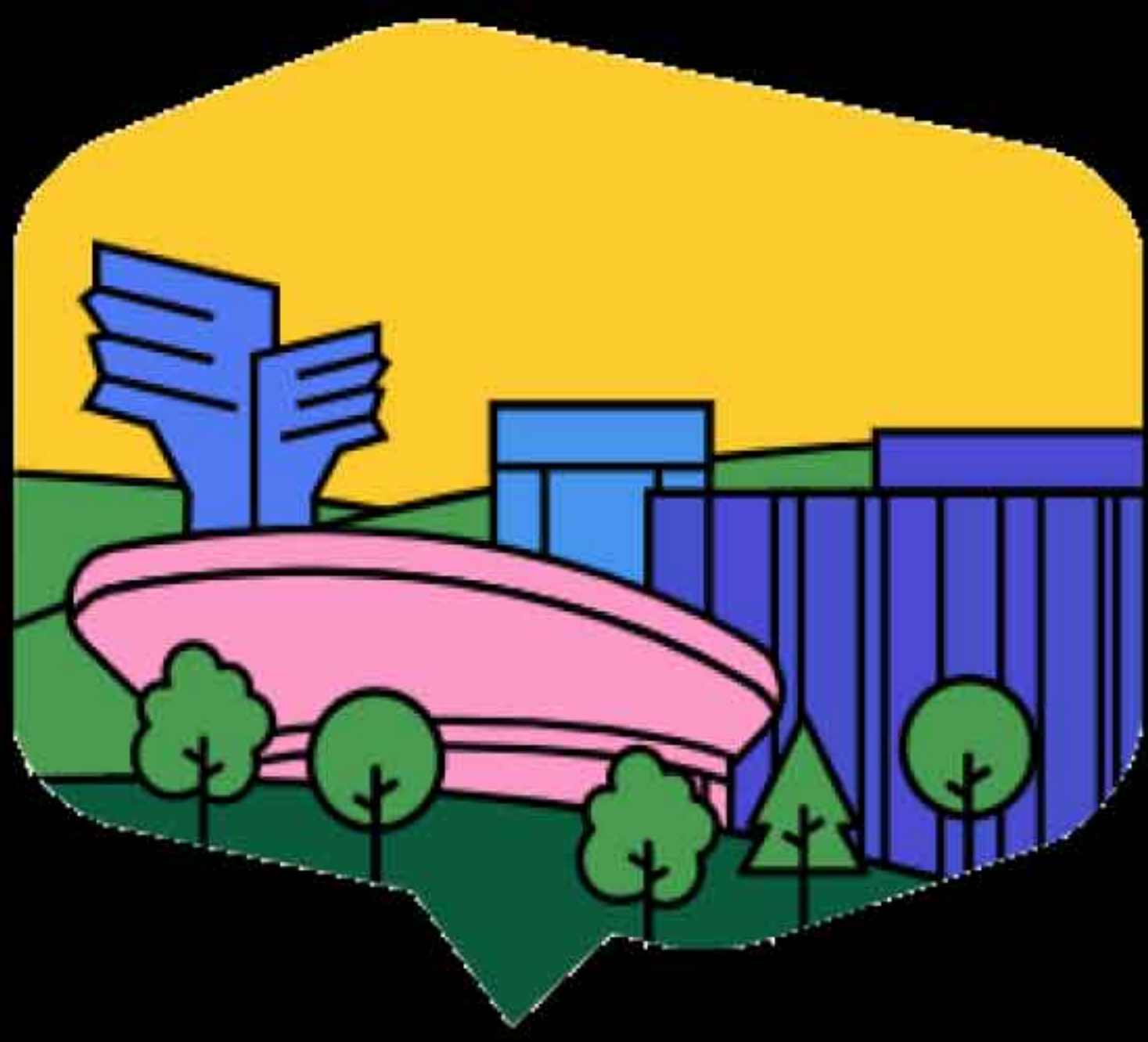
Compost House & Learning Centre

Establishment of Traditional Art Craft and Culture Kiosk

Mangrove Nursery

Solar Lighting





Activity

Capacity Building



Programme / Project

- Committee Management (Structuring, strengthen engagement program, and financial management)
- Waste Management Awareness
- Environment Conservations Awareness

Objectives

- Committee Management (group structuring, strengthen engagement program and financial management)
- Introduce important of waste management to local communities and strategic partners.
- Hands on methods of systematic waste management and also baseline data on existing capacity (KG) of waste among strategic partners.

Output

- Awareness programme on composting among strategic partners such as restaurant/food premise, schools, govt. office and private premises.
- Knowledge sharing and awareness to enhance trash management and recycle activity among communities and also generating income through the implementations.
- Expand the composting activities and create an expertise among villagers / communities. (mentoring program in recycling)
- Enhancing recycle and upcycle programme campaign among strategic partners and publics. (award to best practioners by various categories).



CAPACITY BUILDING



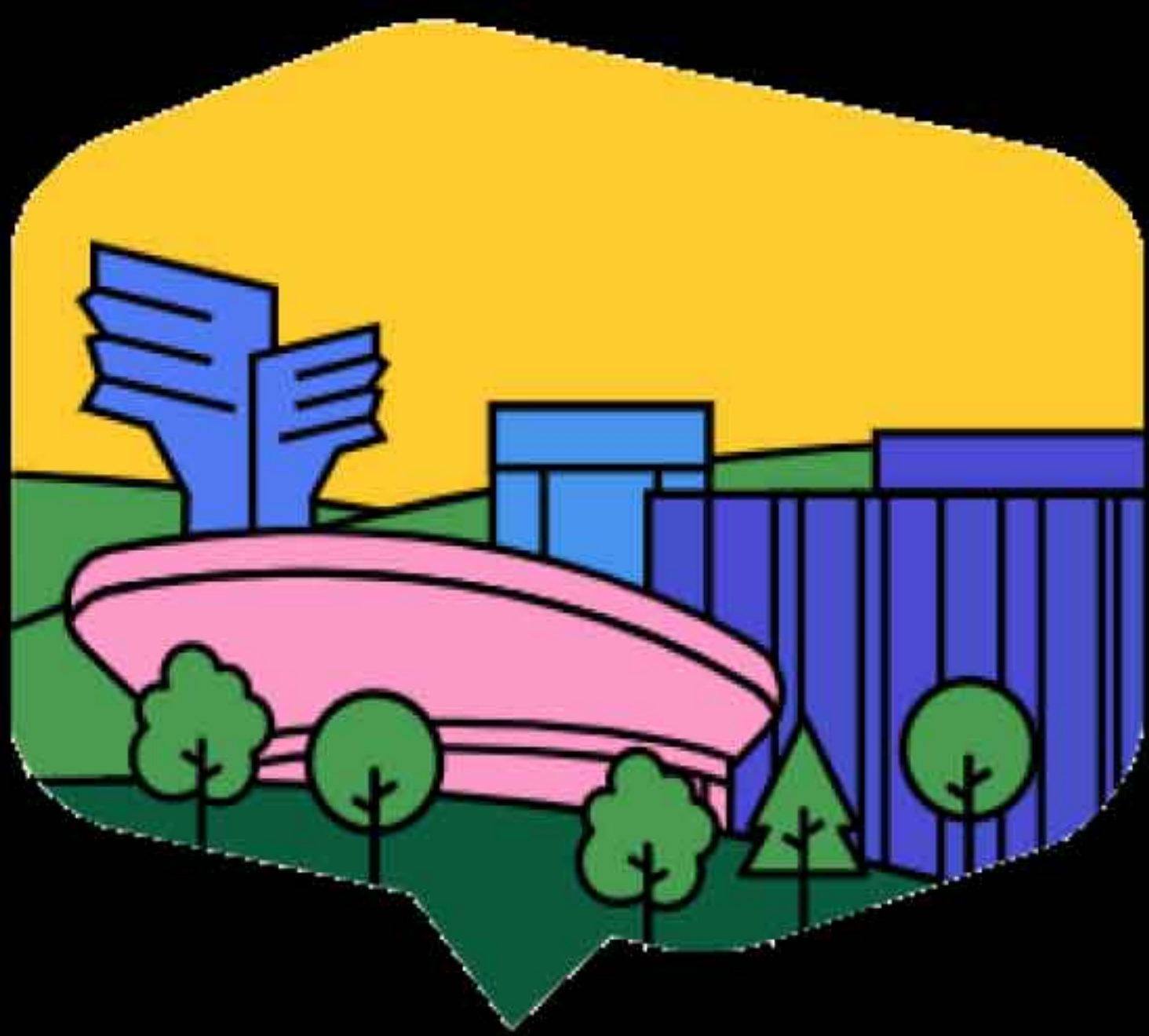
WORKSHOP : WASTE MANAGEMENT AWARENESS



WORKSHOP : COMMITTEE MANAGEMENT



WORKSHOP : ENVIRONMENT CONSERVATION AWARENESS

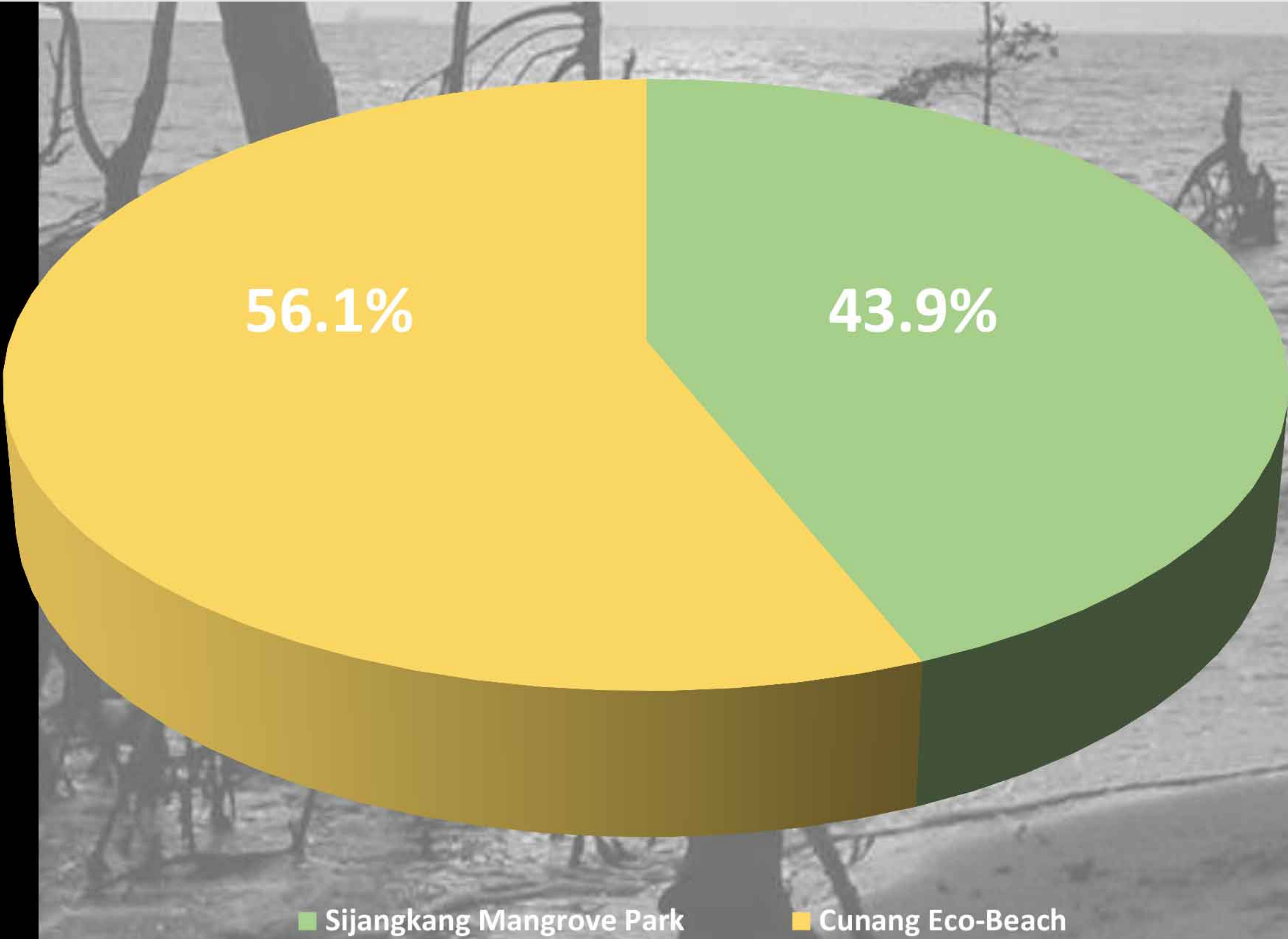


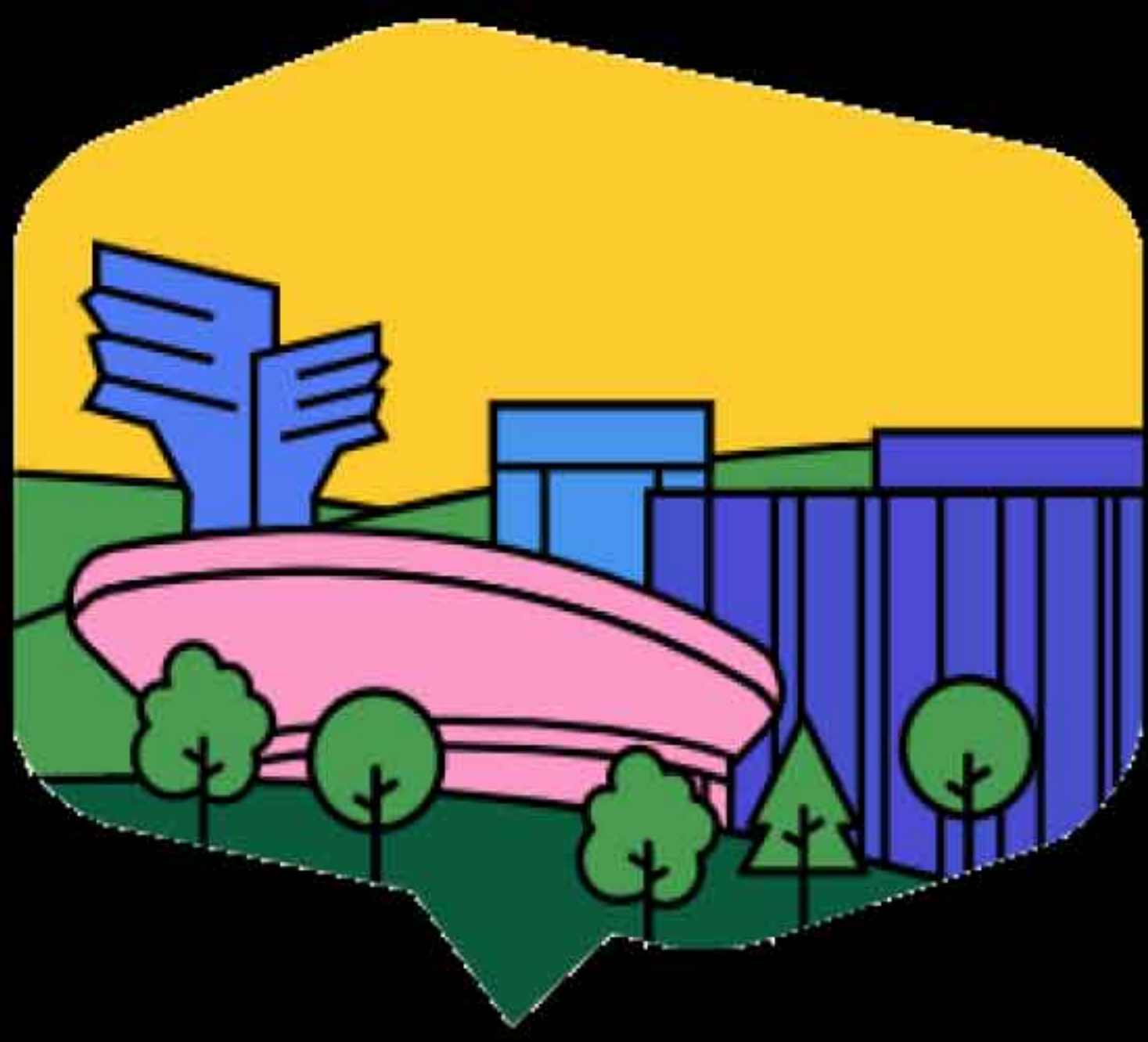
Engagement Activities

Proponent	Kuala Langat (Sijangkang Mangrove Park)	Kuala Langat (Cunang Eco-Beach)	Total
Federal Government	23	55	78
Local Government	146	50	196
NGOs	42	80	122
CBO/Citizen Volunteers	80	376	456
Academic (School/University)	1,730	125	1,855
Private Sector/Media	533	79	612
Others (Tourist, Visitor, etc.)	95	2,623	2,718
Total	2,649	3,388	6,037

Data Sources in a Year 2019

Percentage of Engagement Activities Engaged for Sijangkang Mangrove Park And Cunang Eco Beach





Activity

Establishment of Traditional Art Craft and Culture Kiosk



Programme / Project

- To build an exhibition booth/kiosk to showcase the community product of art craft.

Output

- Constructed traditional exhibition booth at Cunang Beach that demonstrating traditional architecture by using local natural construction material, mainly palm species from the mangrove.
- To promote the uniqueness of Mah Meri handicrafts, both at local and international level.
- Generates additional income from eco-tourism which helps to support the community.
- Improve the level of community living status through the tourism sector.
- Increase number of tourists.





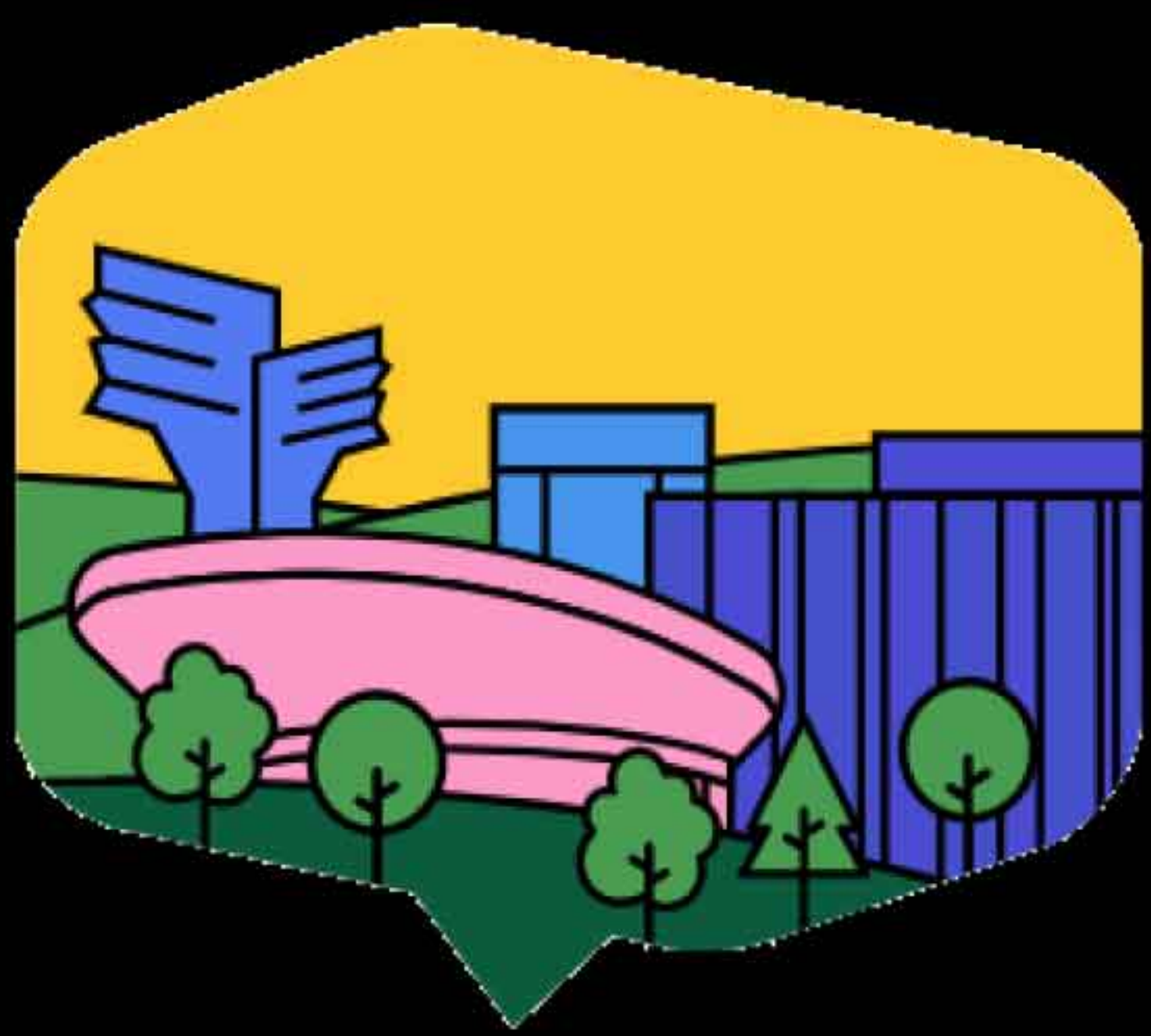
Preliminary Work of Preparation Building Materials for Art Crafts & Culture Kiosk



Walls decorations with kelarai design using Nipah leaves



Polls using mangrove tree collected at nearby



Preliminary Work Of Preparation Building Materials For Art Crafts & Culture Kiosk



Using bamboo as a material for roofing



Roofing using nipah leaves made by local people using the traditional technique .



Building materials from plants are very beneficial to maintain the climatic conditions and one example is the roof and wall made from nipah leaves.



Counter



Store



Display Tower

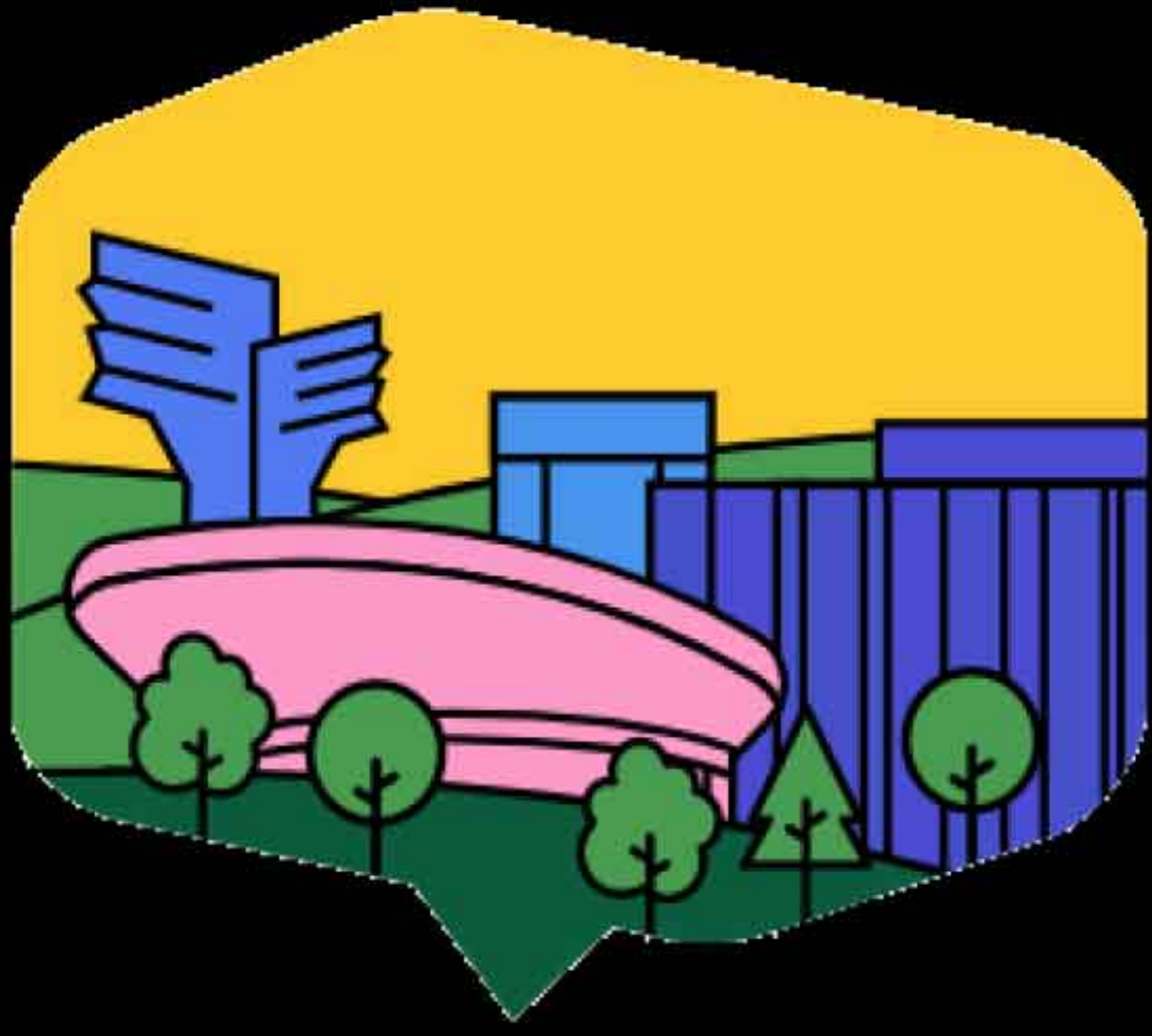


Display Rack



Furniture using mangrove wood





Activity

Compost House and Learning Centre



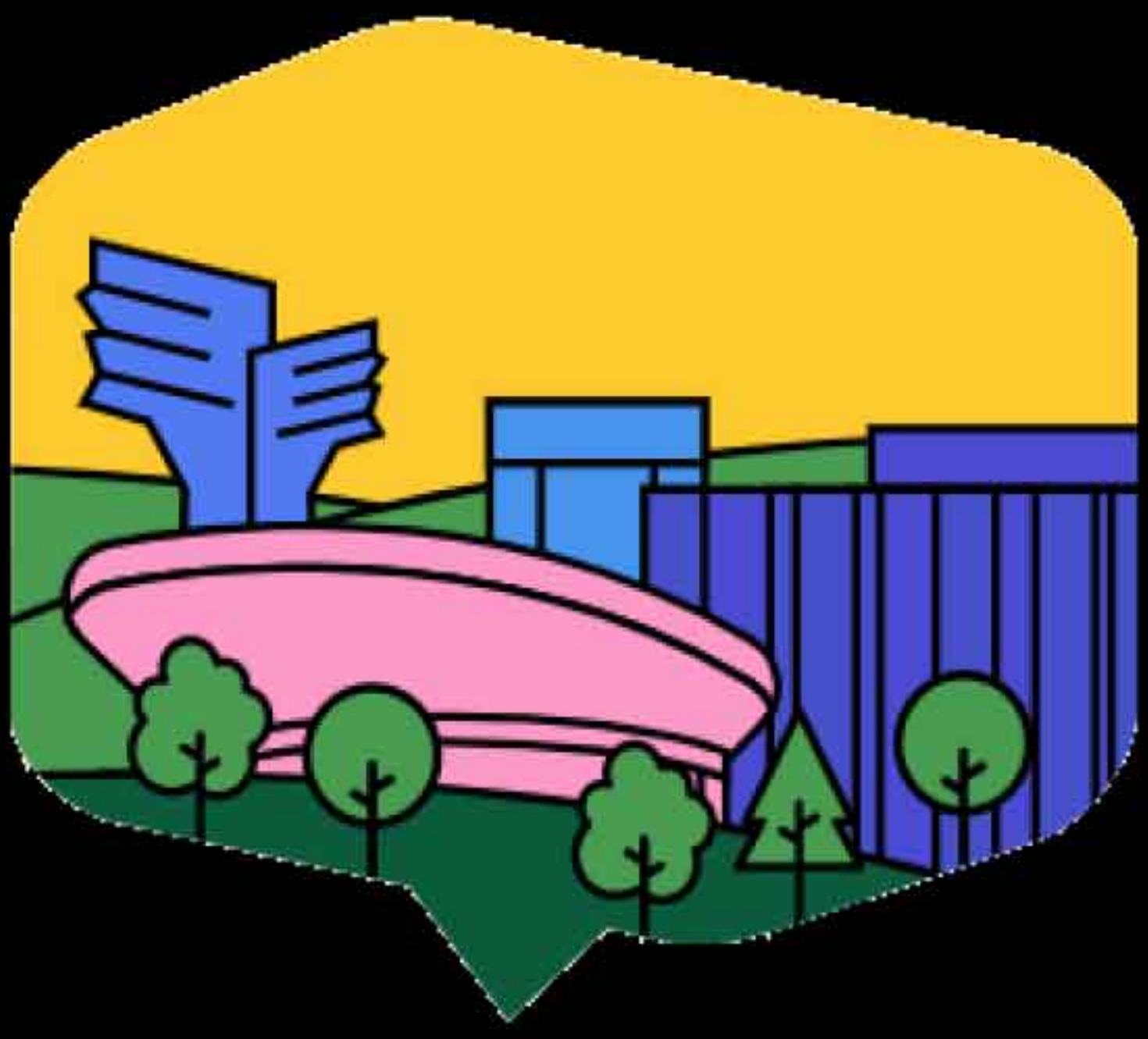
Programme / Project

To develop and implement composting activity

Output

- Target compost product up to 100kg per month.
- Generating income by supplying the product to nursery, local community, govt.office, and private properties.
- Increase food waste collections from strategic partners (*currently 50 kg from restaurant near by*).
- Increase the number of strategic partners such as (restaurant) , schools, govt. office, as a supplier of food waste.
- Minimise waste at dump site.





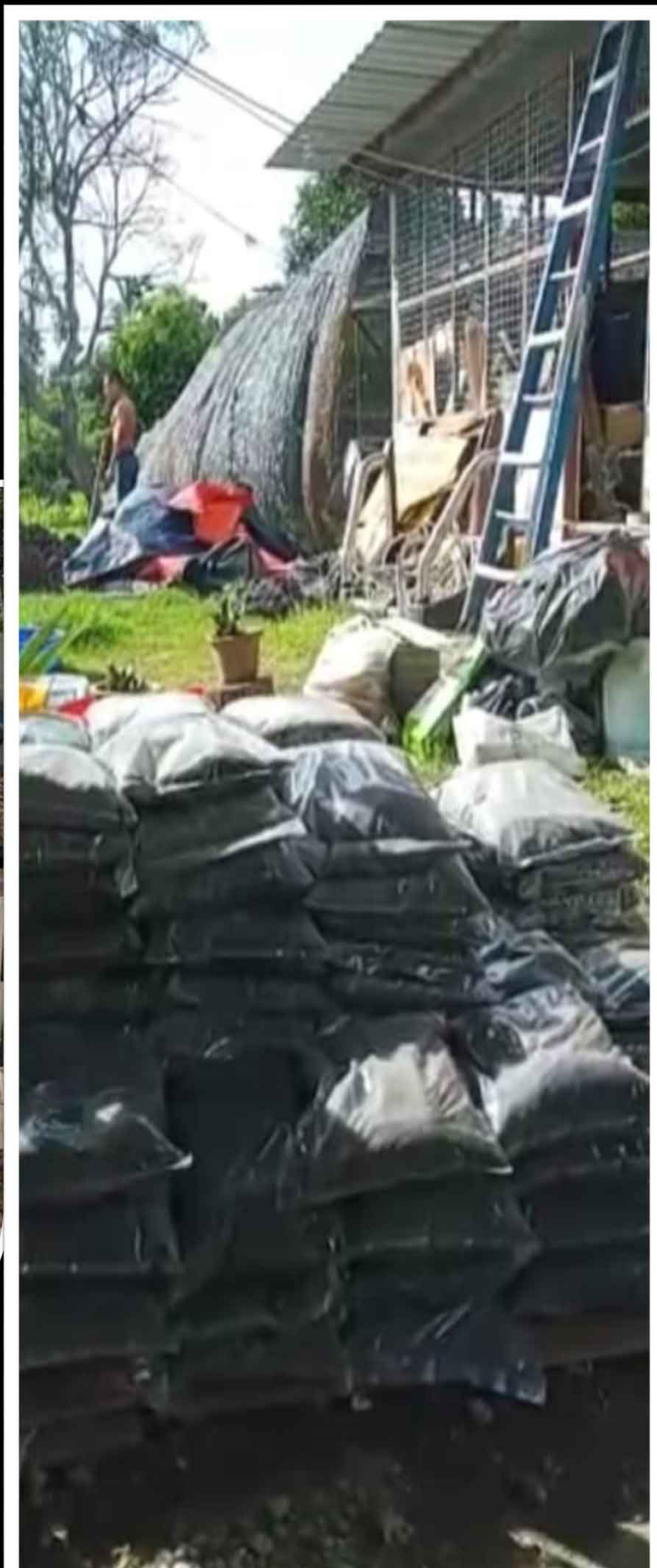
Compost House and Learning Centre

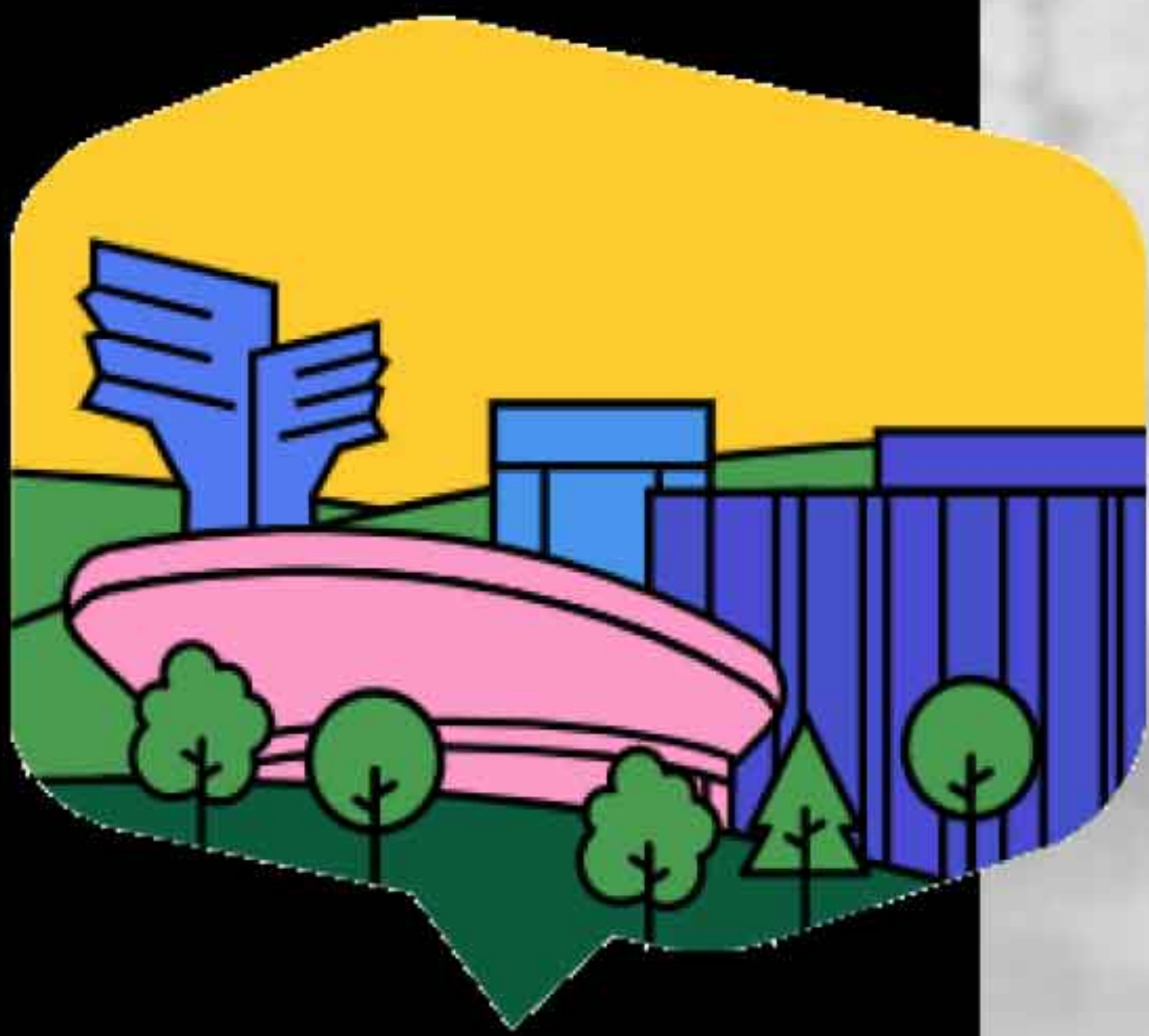


Composting is as simple as collecting garden waste or taking out the organic materials in your trash (such as fruit and vegetable peels, coffee grounds and filters, and eggshells) and then corralling them in a pile or bin.



Building of Compost House and packaging the low compost



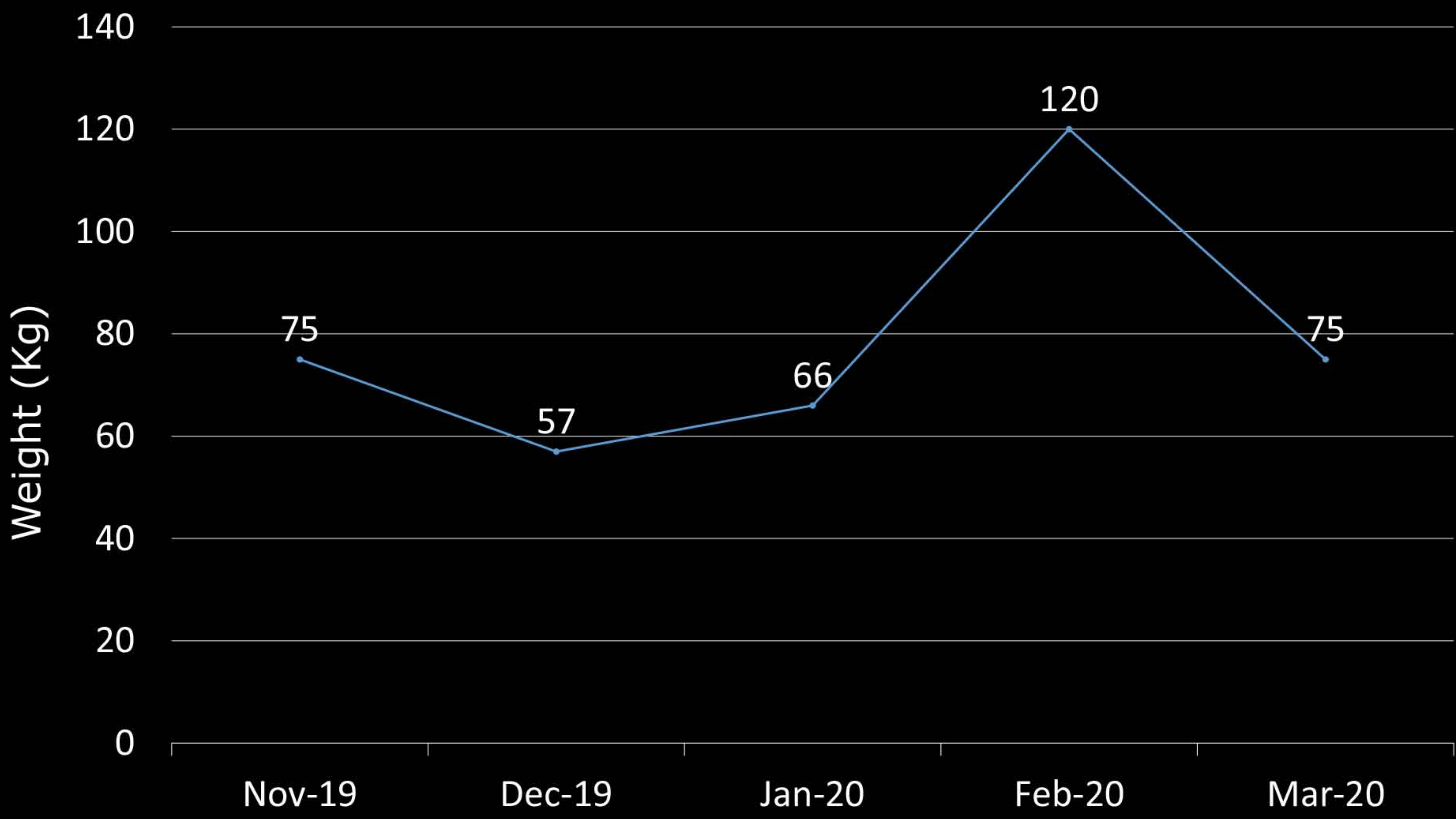


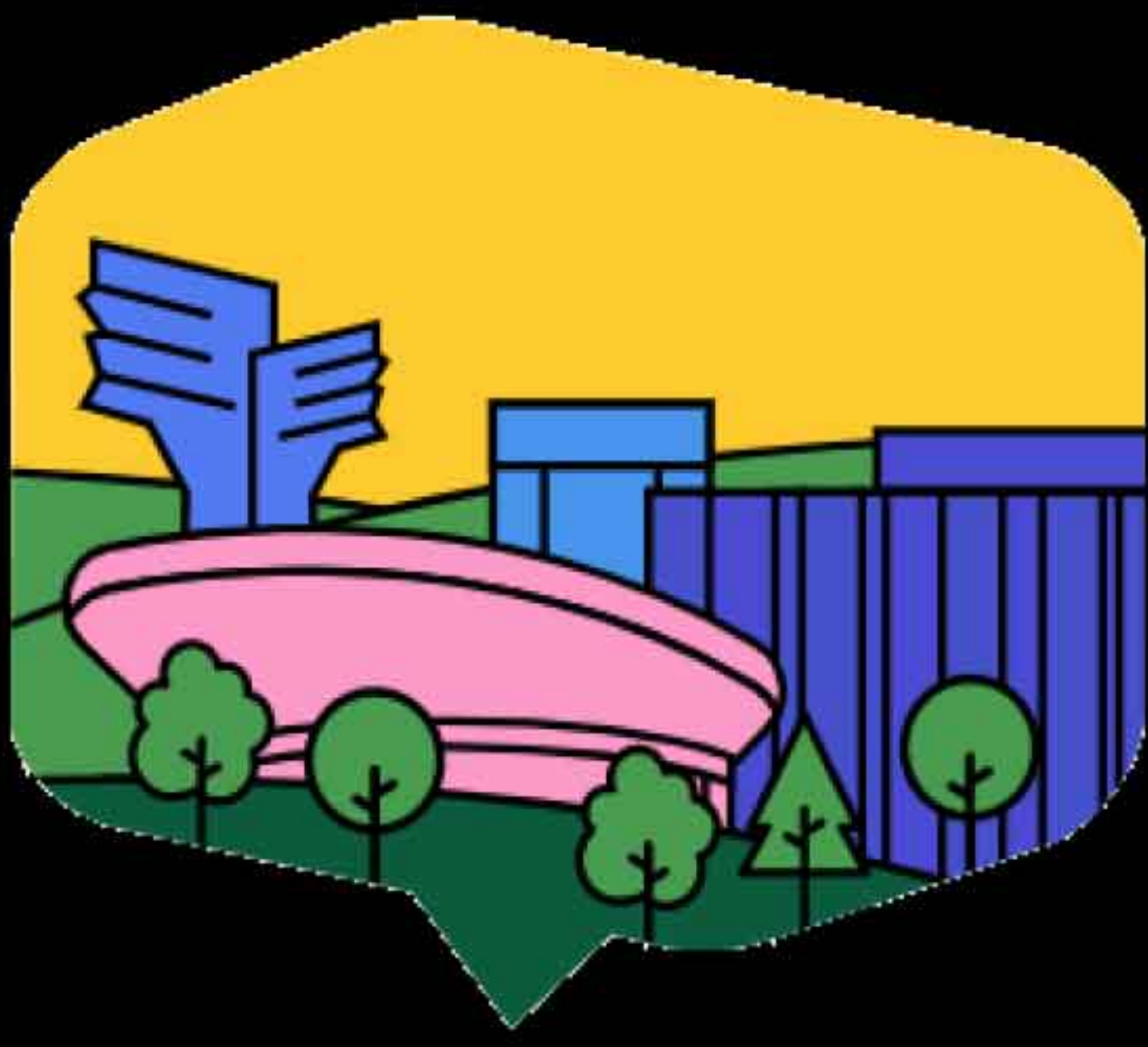
Compost Produced for Sijangkang Mangrove Park and Cunang Eco Beach

DESCRIPTION	SIJANGKANG MANGROVE PARK			CUNANG ECO BEACH		
	Bag	Weight (Kg)	Rate@ RM4/bags	Bag	Weight (Kg)	Rate@ RM4/bags
Nov 2019	20	60	80	5	15	10
Dec 2019	15	45	60	4	12	8
Jan 2020	15	45	60	7	21	14
Feb 2020	38	114	152	2	6	4
Mar 2020	20	60	80	5	15	10
Total	108	324	432	23	69	46



Total Compost Produced from Nov 2019 – March 2020





Activity

Mangrove Nursery



PROGRAMME / PROJECT

- To promote and commercialize the mangroves nursery as one of the interactives mangroves park in the region .

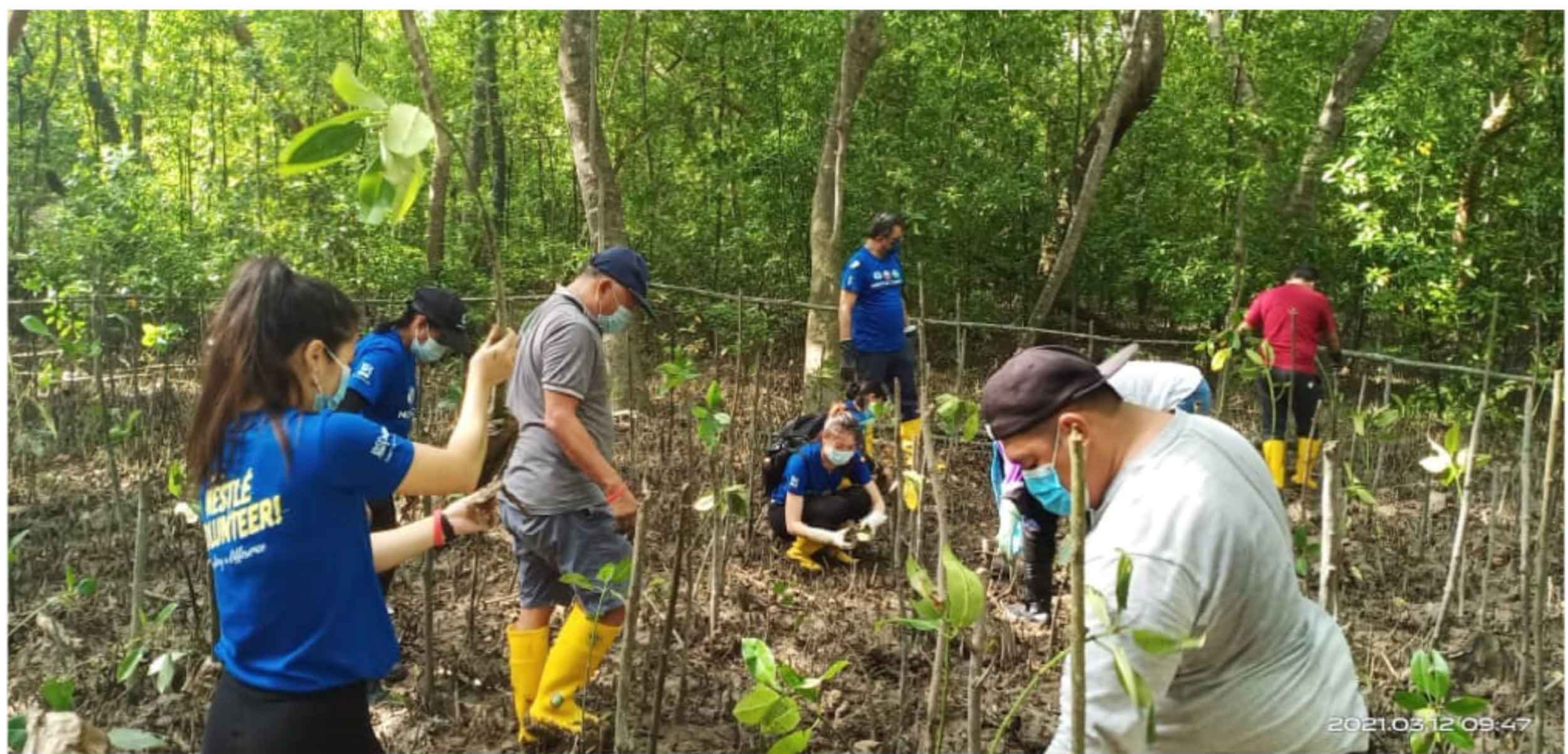
OUTPUT

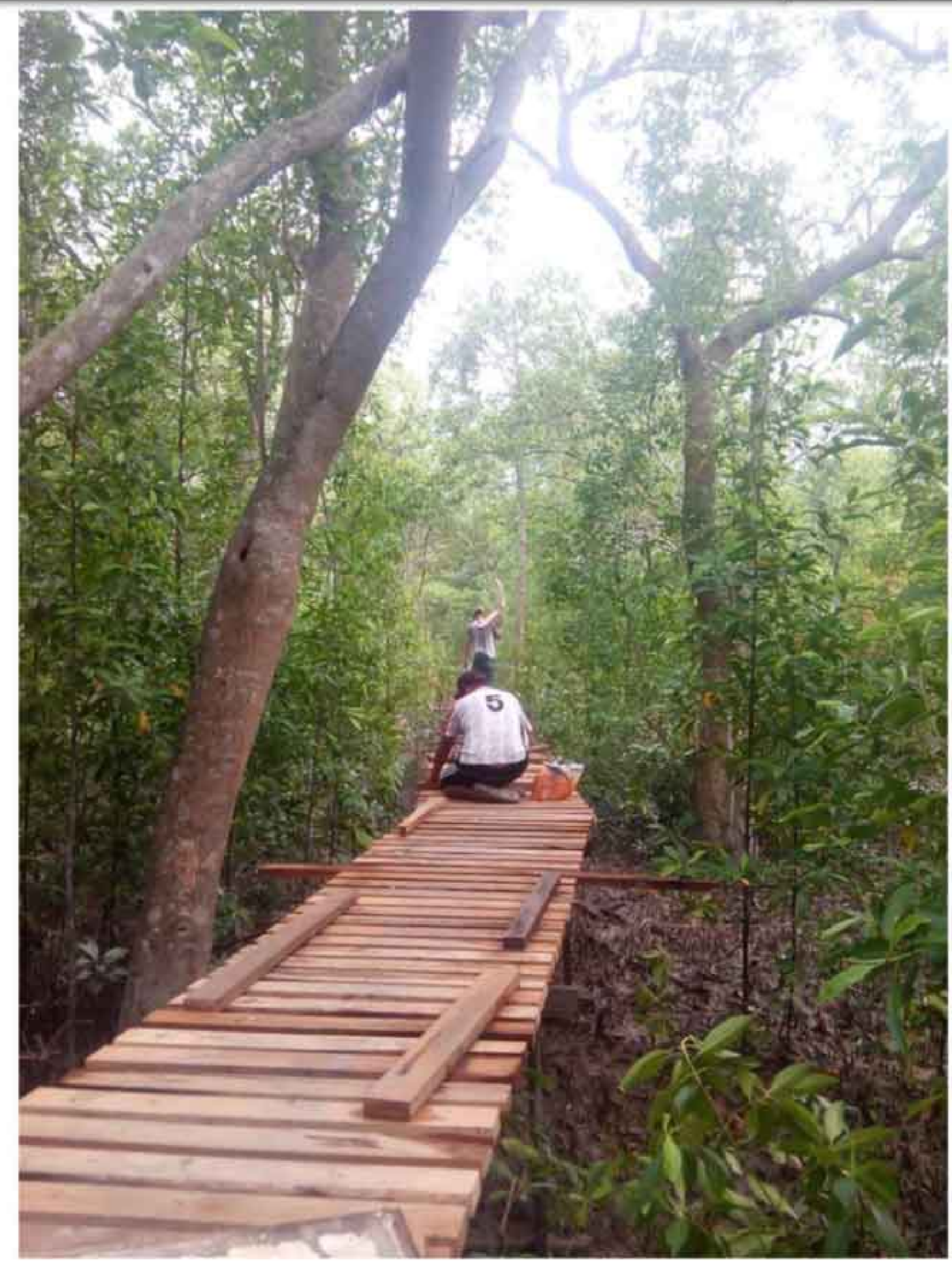
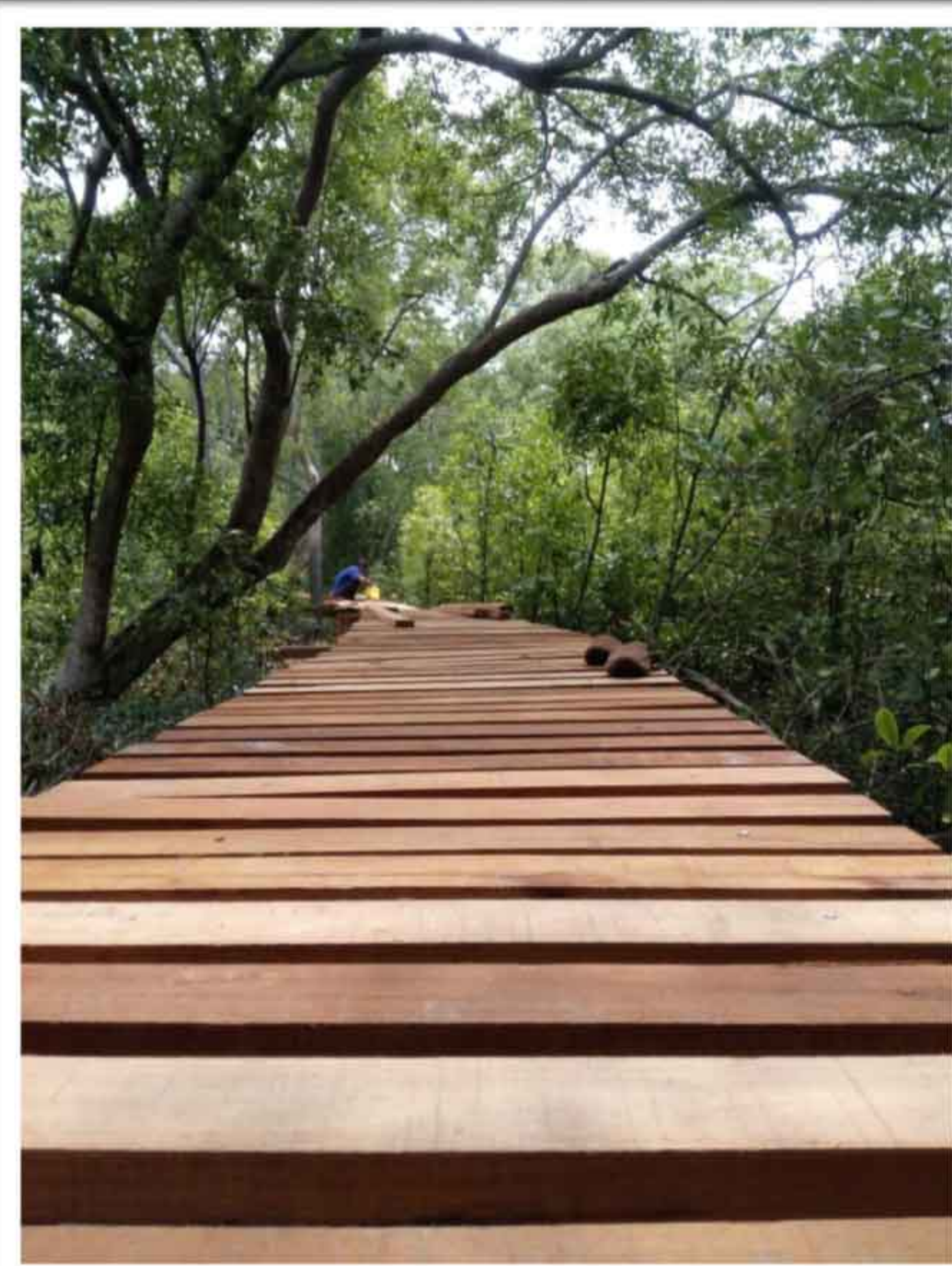
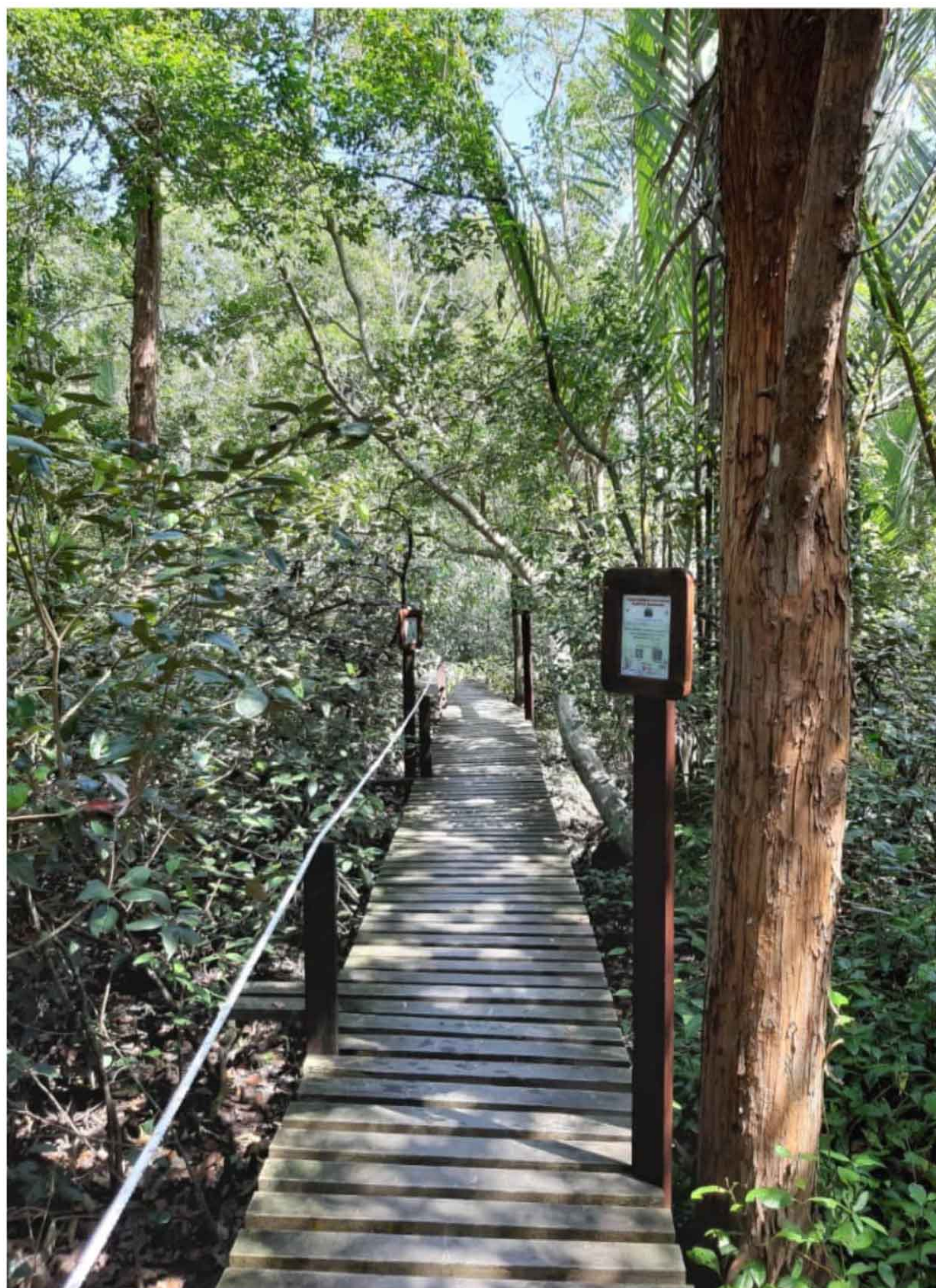
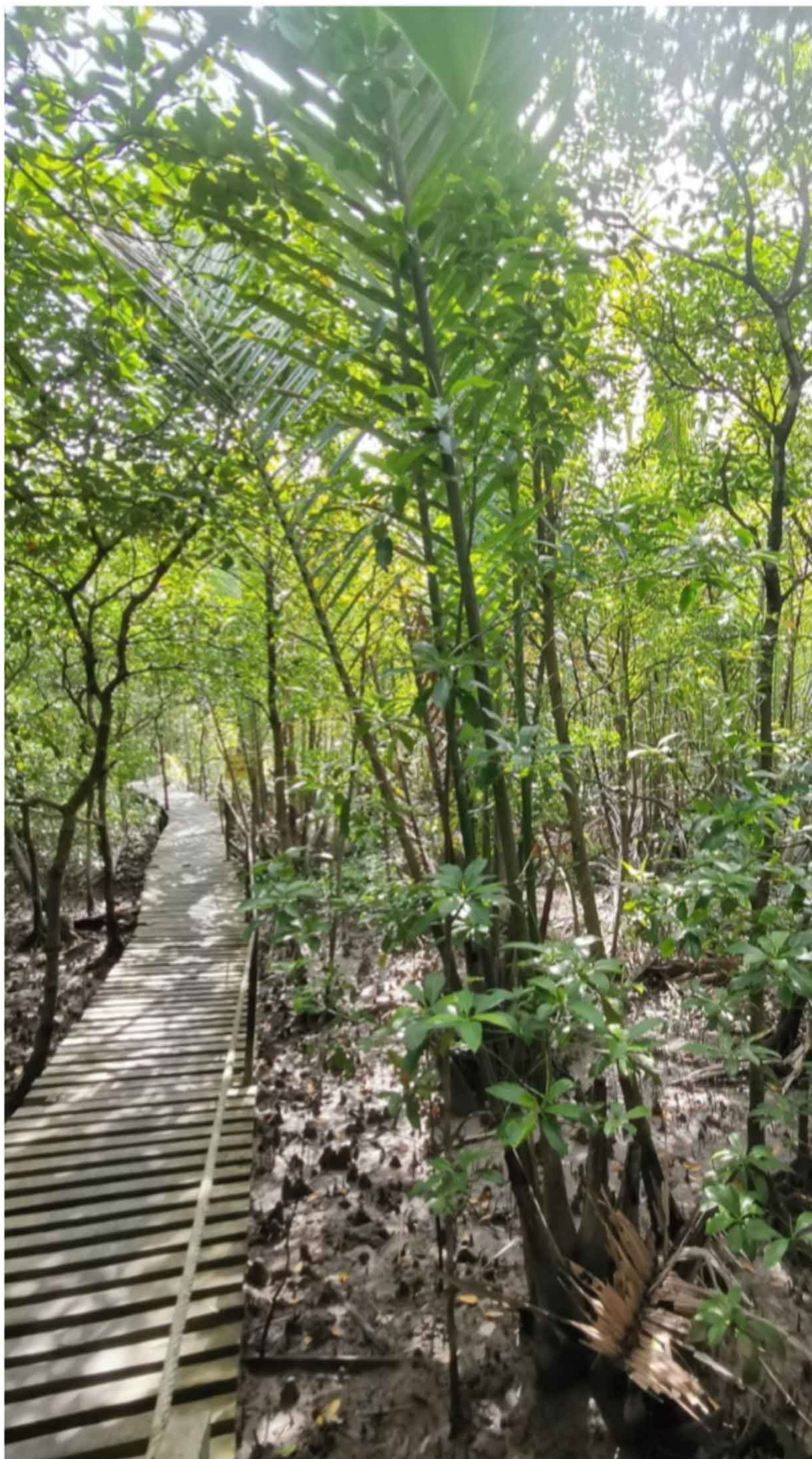
- Increase the number of tourist up to 2,000 and more every year.
- Mangrove rehabilitation areas.
- Extend the mangrove trail to be more safe and comfortable (Currently 850 meters for one way track/ journey)
- CSR programme at the park and increase the number of strategic partners especially the agencies that related to mangroves conservations such as govt. agency, non-govt organizations and others.
- Provide data inventory on tree species (education purpose).
- Awareness activities – mangrove conservations and cleanliness of the park (park clean-up)



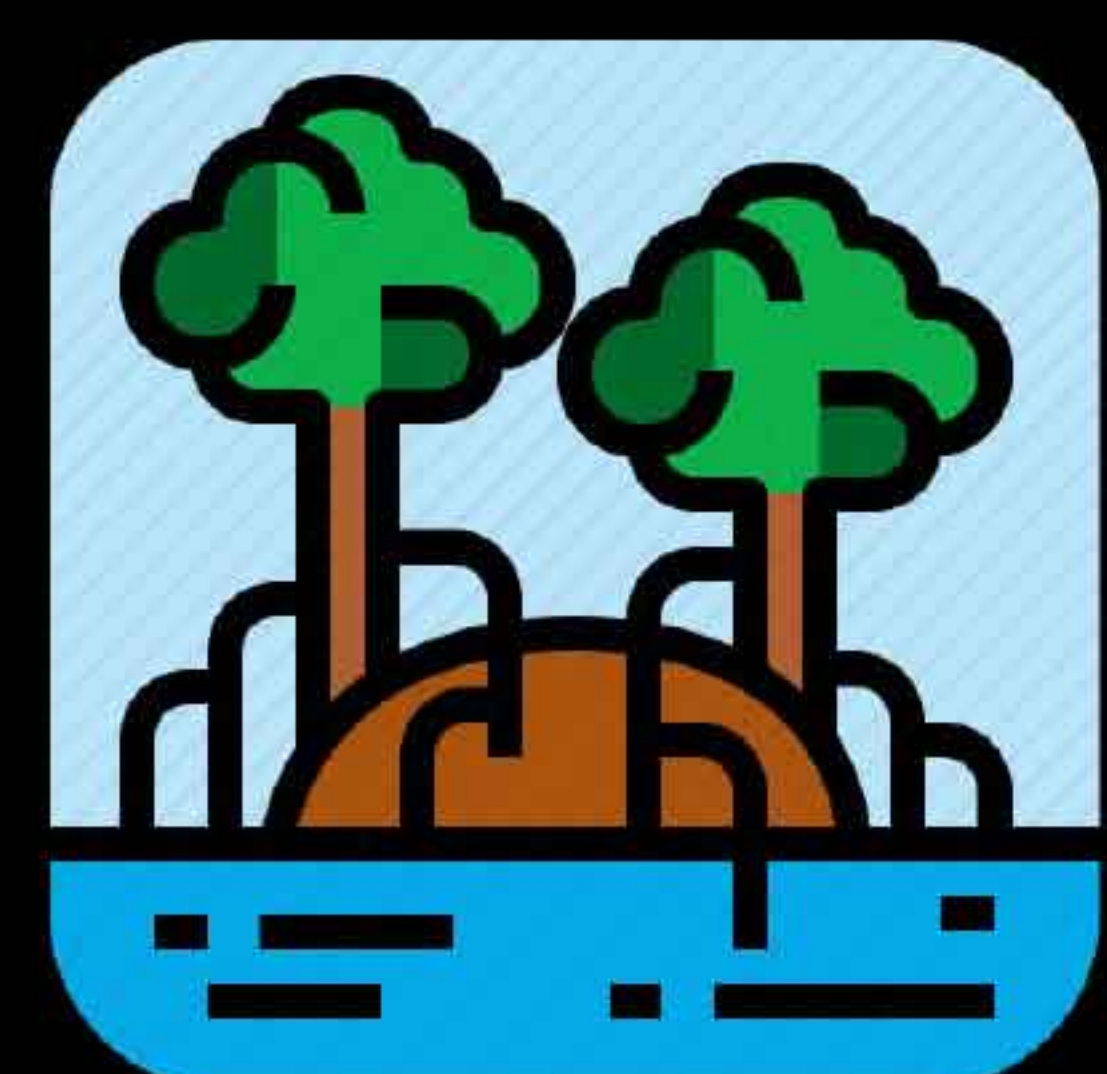


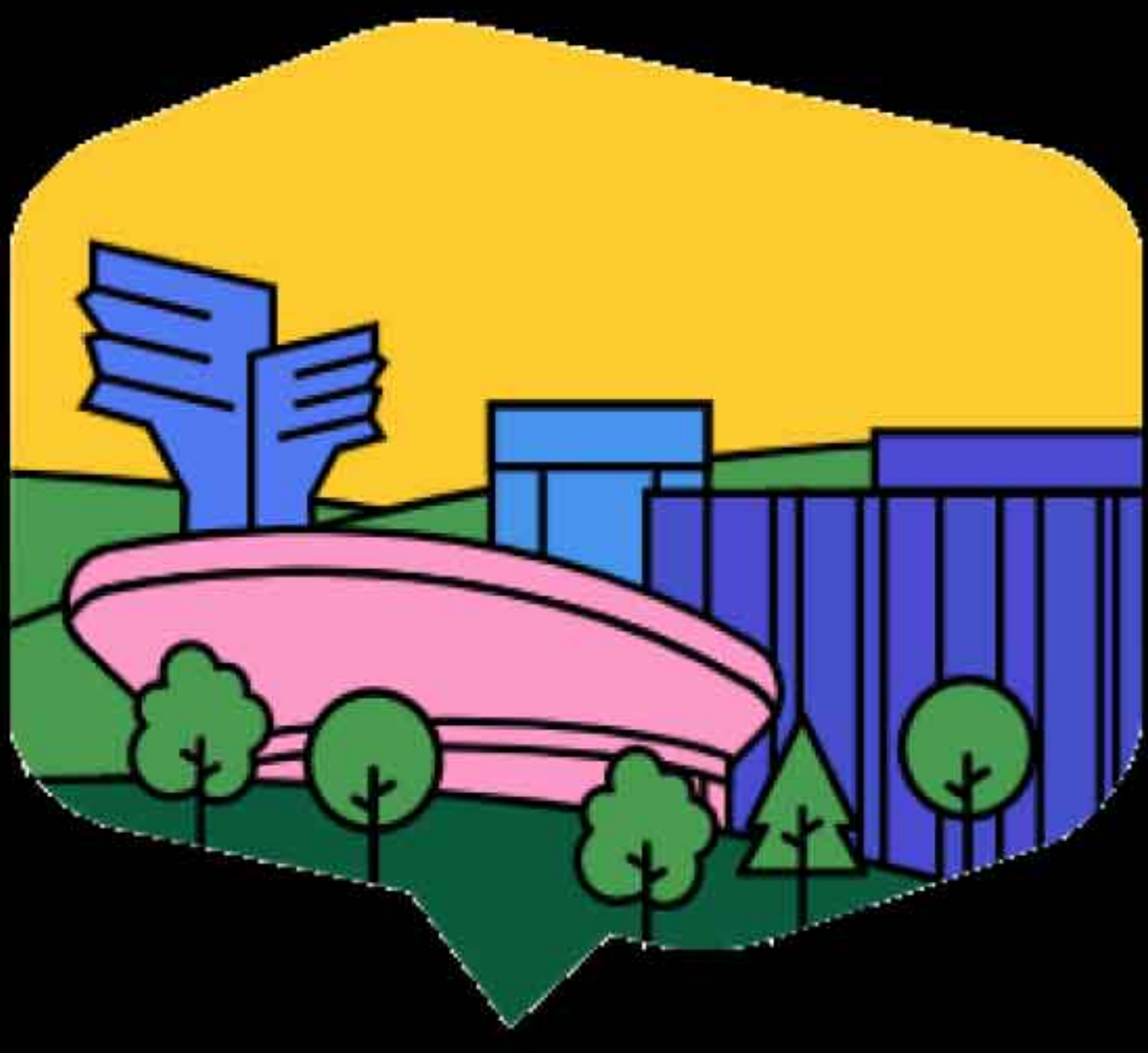
There are almost 5000 seeds of mangrove are planted at Sijangkang Mangroves Nursery which involved more than 30 parties planted the tree.





Preliminary work of preparation
Boardwalk for mangroves nursery



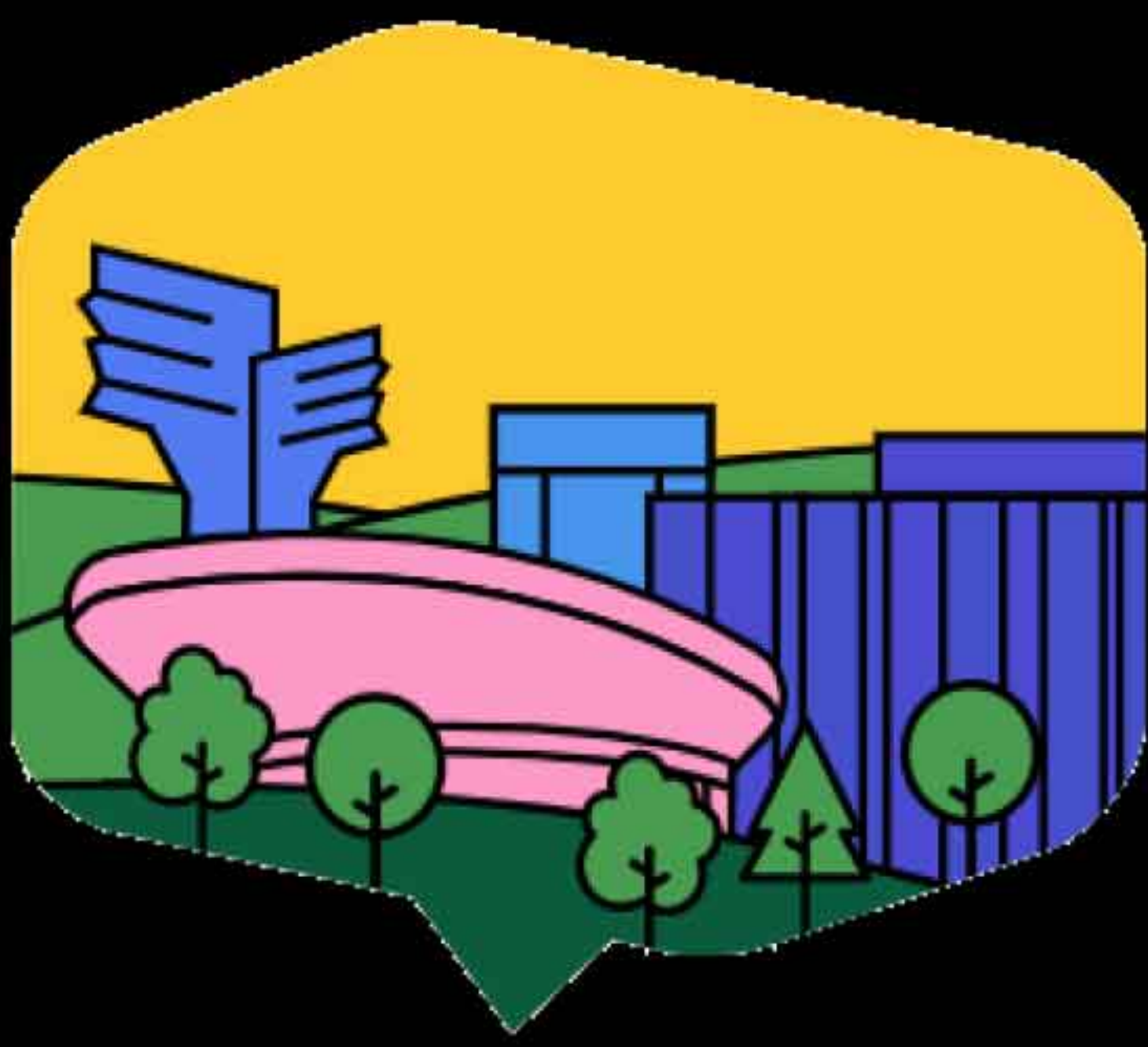


One Touch QR Code Project



- One-Touch QR Code is the first project involves community which lead by Laboratory of Sustainable Bioresource Management (BIOREM), INTROP. The researchers involved in this project are providing a solution to the community in the engagement of recreational and botanical knowledge. The code is providing tree scientific name, local and family names and also photos of the tree.
- This project aims to reinforce efforts in disseminating **knowledge about nature and educating the community on the importance of the mangrove ecosystem** with the hope that such efforts and knowledge to conserve mangrove forests can be continued in future generations.





One Touch QR Code Project

Sijangkang Mangroves Edu-Recreational Park

FEEL THE NATURE OF ECOLOGY

It is historically a mangrove a forest and developpe by the community and they demonstrates strong grassroots initiatives in waste recycling (recycling waste into furniture, hardscapes and decorative arts), and mangrove replanting .

Other than that, the objectives of the conserving this park is starting with transform illegal dump site into the mangroves recreational park with smart-partnership efforts lead by government agency and manage by community.



Partnership
Kuala Langat Municipal Council
Universiti Pertanian Malaysia
Persatuan Taman Rekreasi Paya Bakau Sijangkang

Sijangkang Mangroves Edu-Recreational Park, Kuala Langat, MALAYSIA

Learning Ecosystem Nature



One-Touch QR Code
a community engagement project

Sijangkang Edu Recreational Mangroves Park

The Sijangkang Edu Recreational Mangroves Park is used for daily activities for school children's, youngsters and families in spending their leisure time after school and weekends. Nowadays, a group of volunteers joint by senior residents coordinate various nature programs, for example collecting mangrove seeds, nature-walk on an 900meters walkway and motivation talks.



Through this One-Touch QR Code application, its aim to establish a mangrove nursery site in the park

BROCHURES

One-Touch QR Code - Learning the nature

The community project, named One-Touch QR Code also involved collaboration with Malaysian Adhesive and Chemicals Sdn. Bhd., which provided materials for plates and trees tagging.

One-Touch QR Code is the first project involves community which lead by Laboratory of Sustainable Bioresource Management (BIOREM), INTROP. The researchers involved in this project are providing a solution to the community in the engagement of recreational and botanical knowledge. The code is providing tree scientific name, local and family names and also photos of the tree.



This project also involved collaboration with Malaysian Adhesive and Chemicals Sdn. Bhd., which provided materials for plates and trees tagging.

One-Touch QR Code is the first project involves community which lead by Laboratory of Sustainable Bioresource Management (BIOREM), INTROP. The researchers involved in this project are providing a solution to the community in the engagement of recreational and botanical knowledge. The code is providing tree scientific name, local and family names and also photos of the tree.

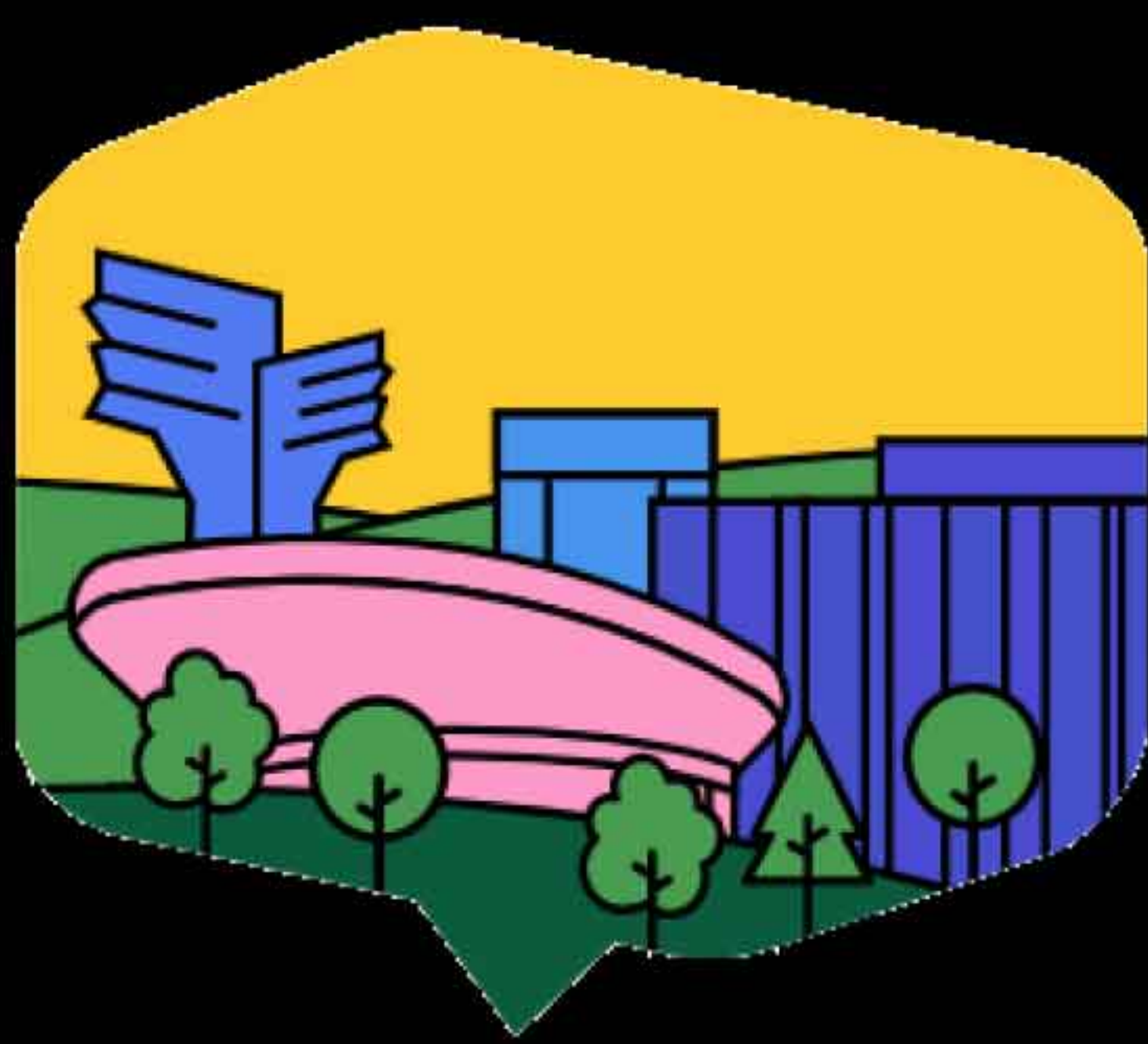
This project received an in-kind allocation by the community namely, food and beverages and field assistance, while INROP provides the knowledge-based service to the community. As a result, nearby residents and community as well as the visitors gained accurate knowledge on botanical mangrove.



Trees tagging include informations of the trees



This project was developed to provide environmental information to visitors directly and quickly using QR code technology



Activity

Lighting (using solar system)



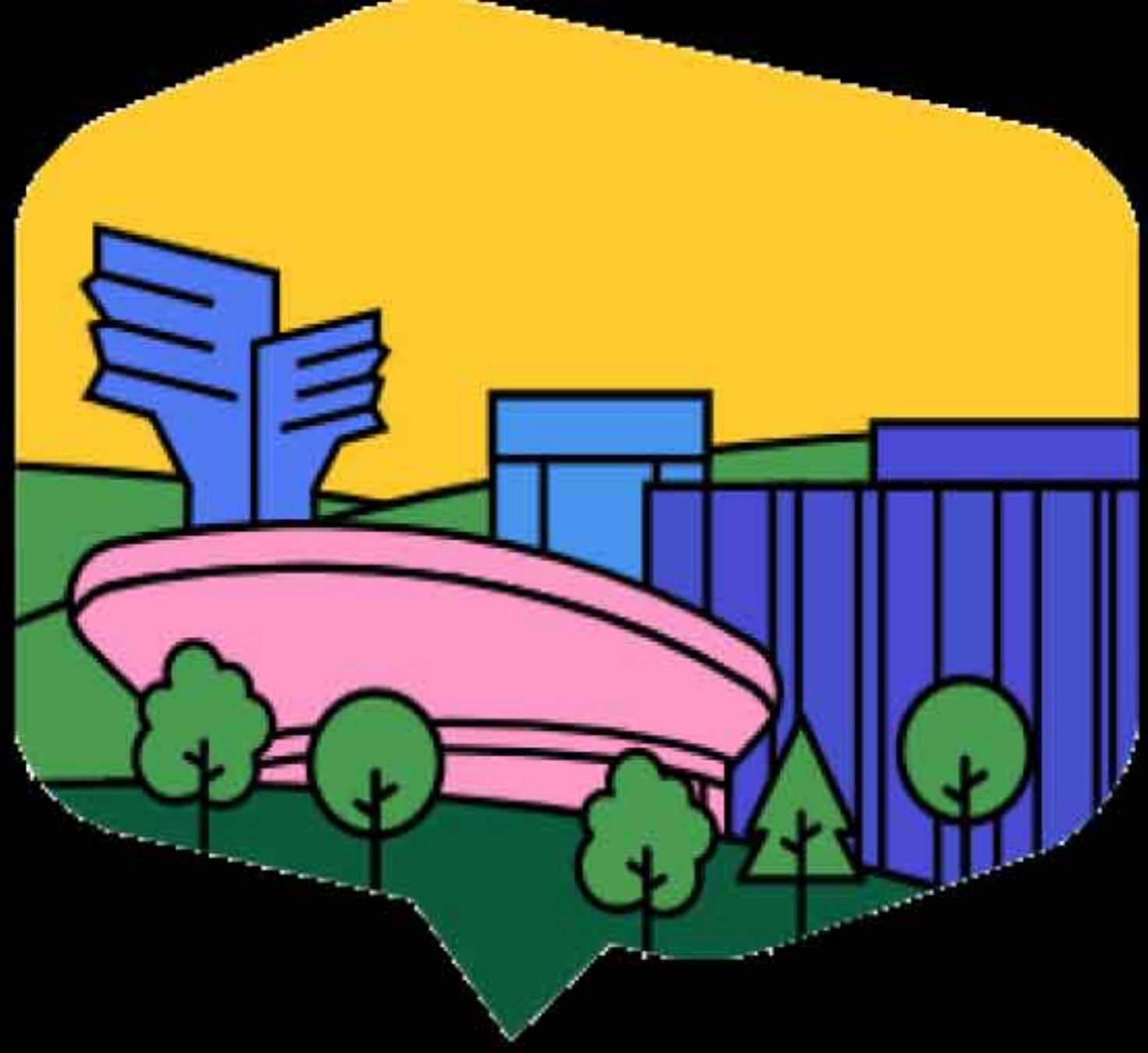
PROGRAMME / PROJECT

Solar Lighting – Sustaining energy use initiative

OUTPUT

- Encourage the implementation of energy efficiency initiatives that can contribute to energy consumption savings and electricity bill cost savings
- The use of brighter solar light is hoped to further improve the level of safety of the visitor, especially in terms of reducing crime rates and road accidents.

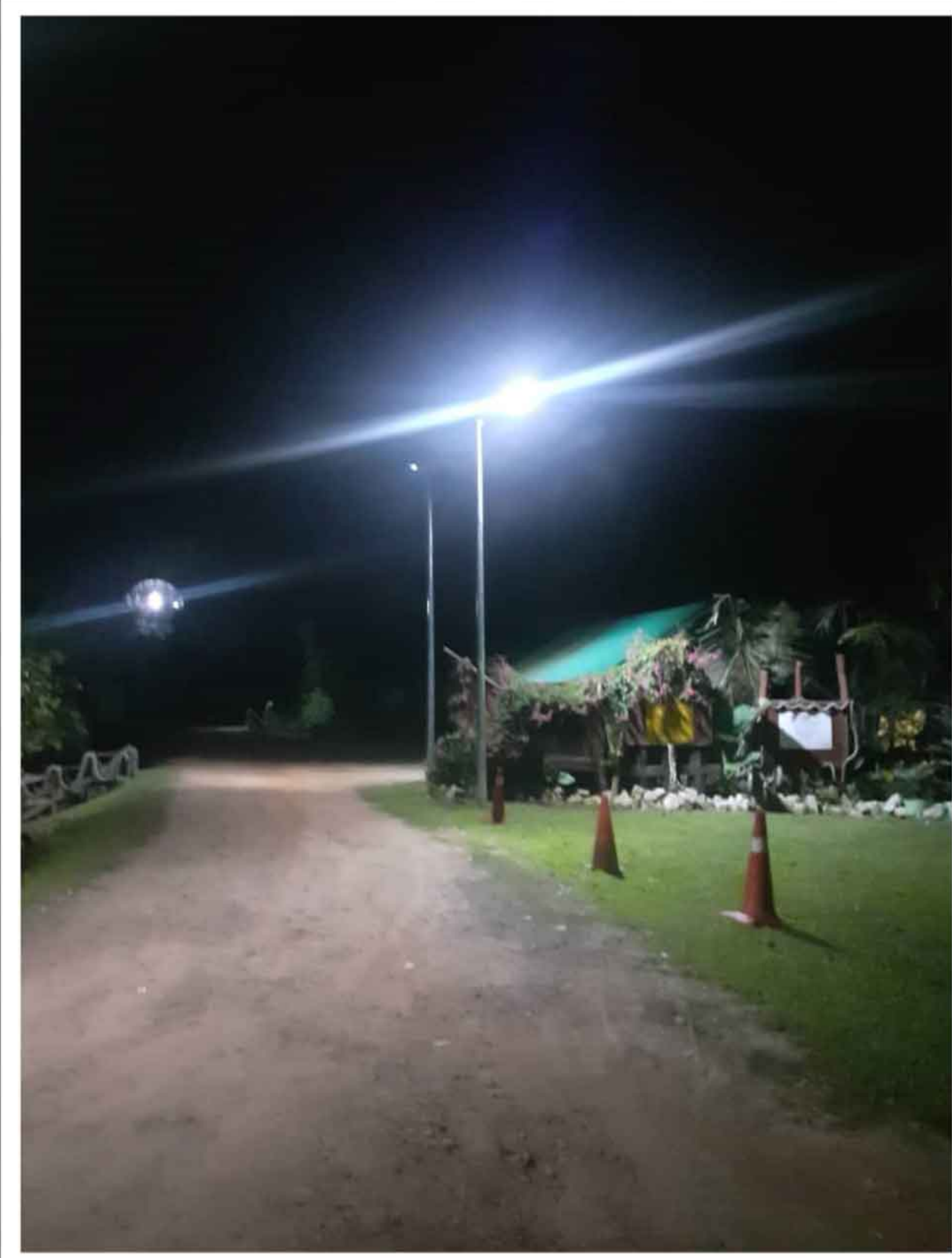




Solar lighting



With environmental awareness at an all-time high around much of the world, more and more people are looking for ways to put their eco-friendly convictions into practice.

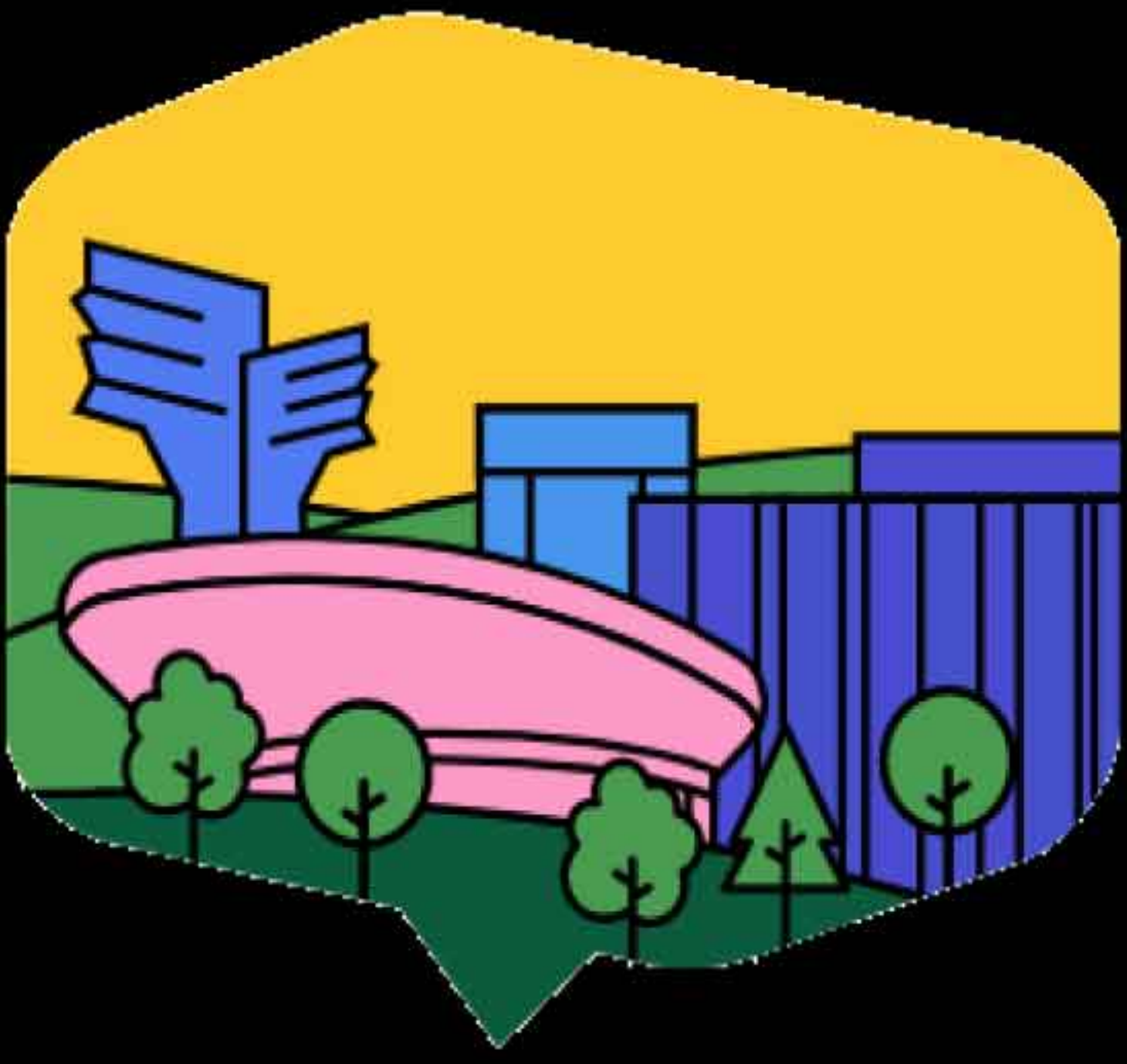


Renewable energy is seen as a necessary step toward sustainable energy development, diminution of the use of fossil fuels and mitigation of climate change.



Preliminary work of installing the solar lighting

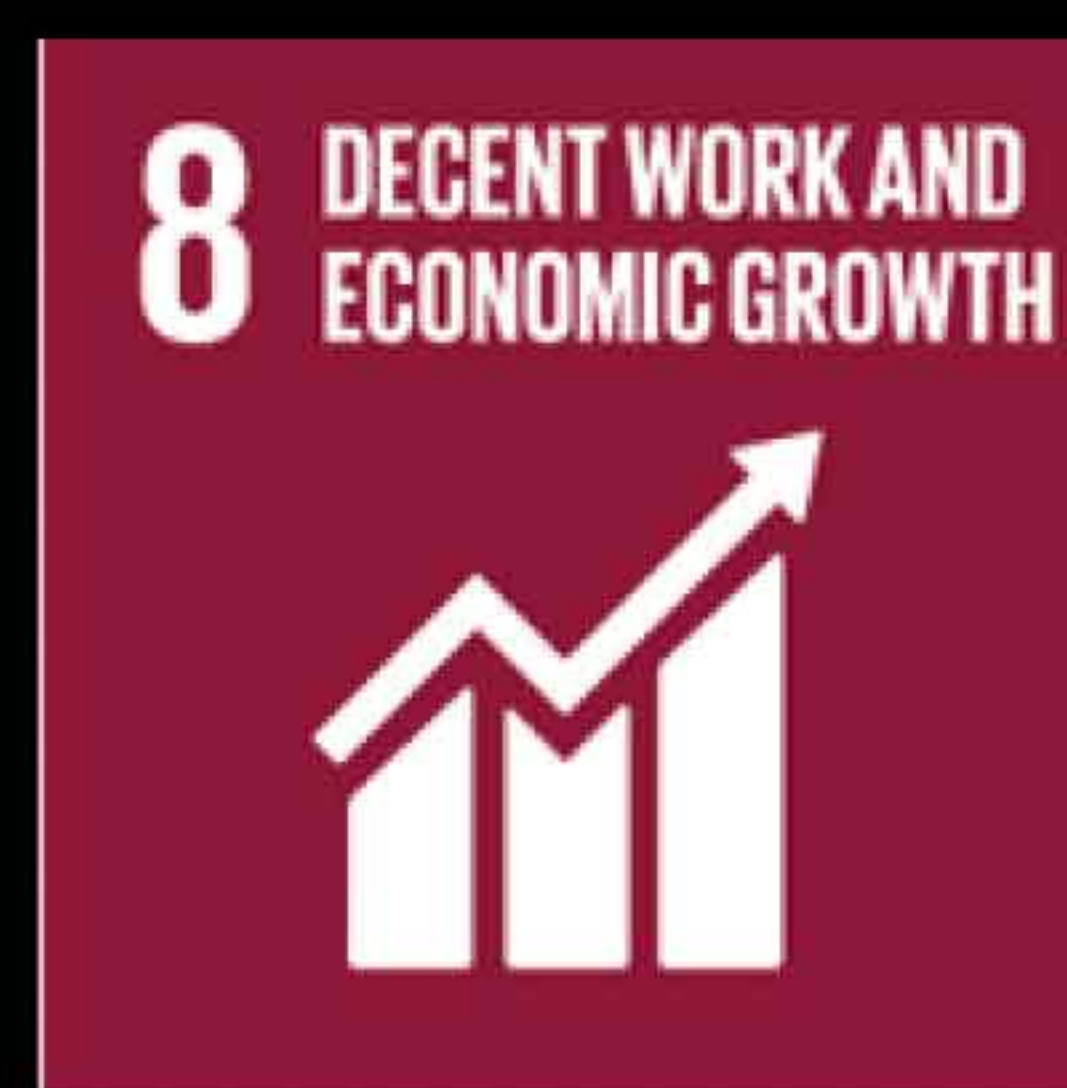


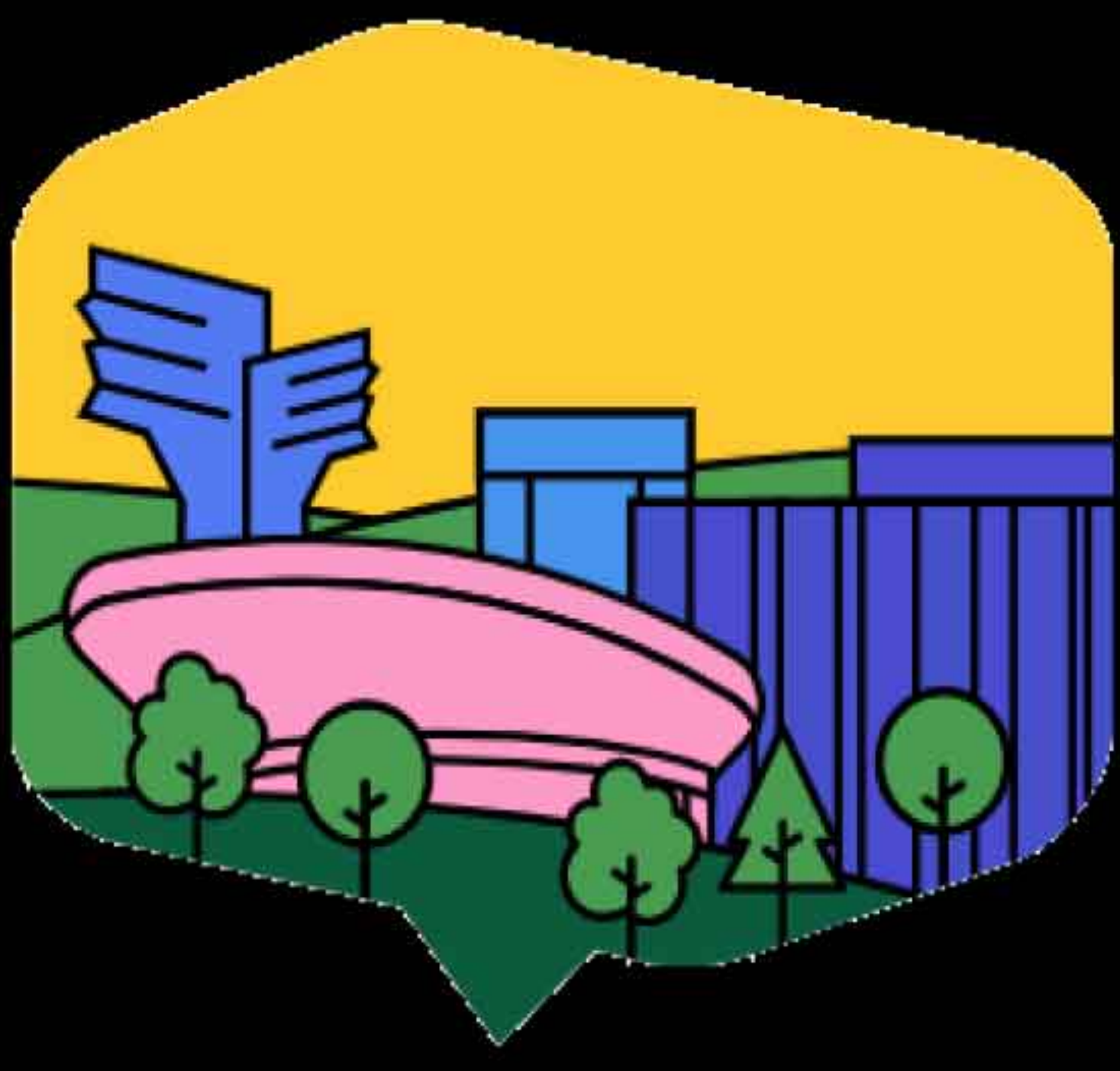


Environmental Conservation Approach

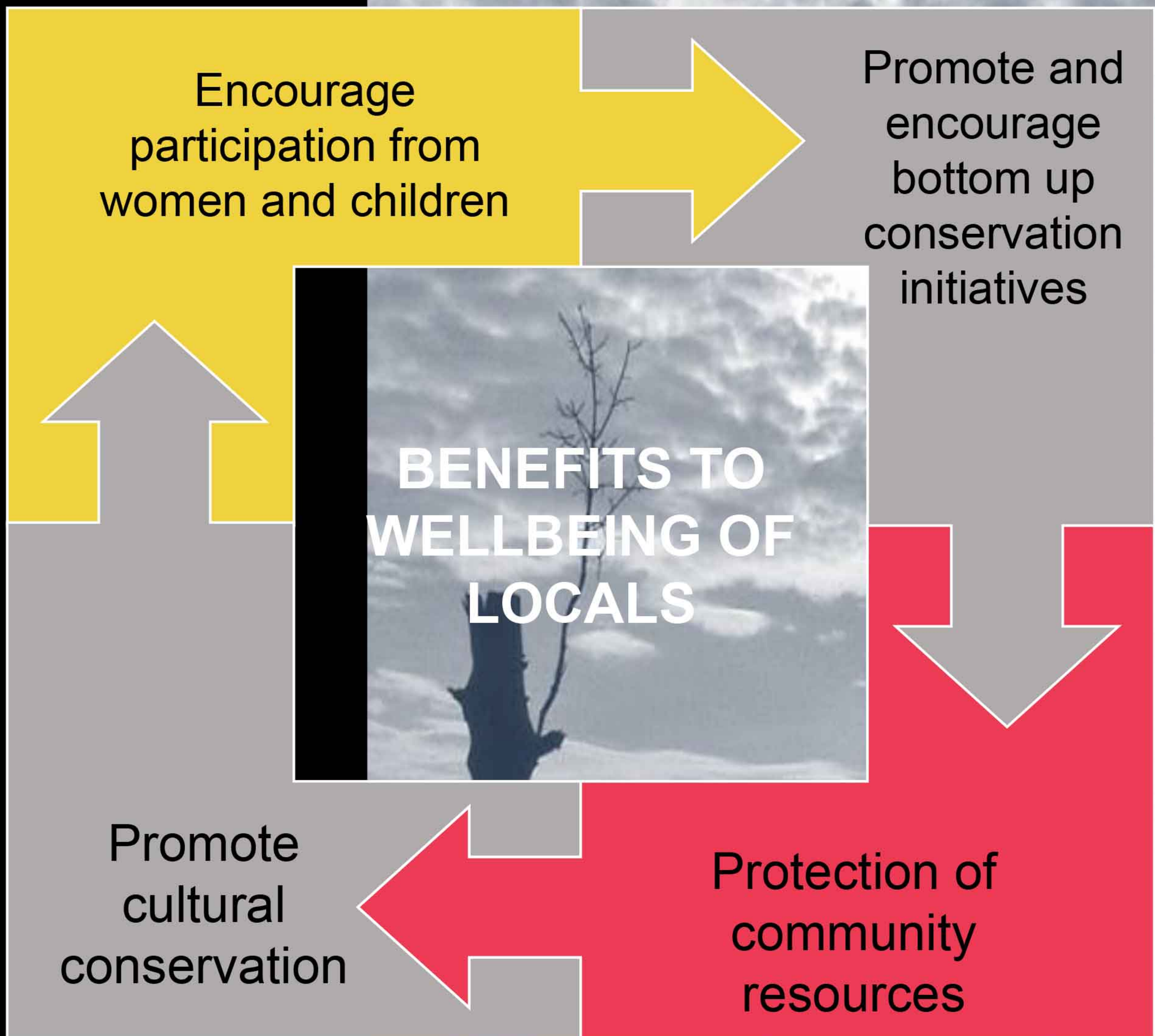
Sijangkang Mangrove Park and Pantai Cunang community actively carries out activities for conserving and restoring mangrove forest. Mangrove rehabilitation areas, areas for the domestic exploitation of mangroves and conservation area have been clearly demarcated by the community.

The community has also initiated regular beach clean-up programs in collaboration with schools, non-profit organizations and private firms. The programs helps to make the beach nicer, safer place and also to improve the coastal and ocean eco system.



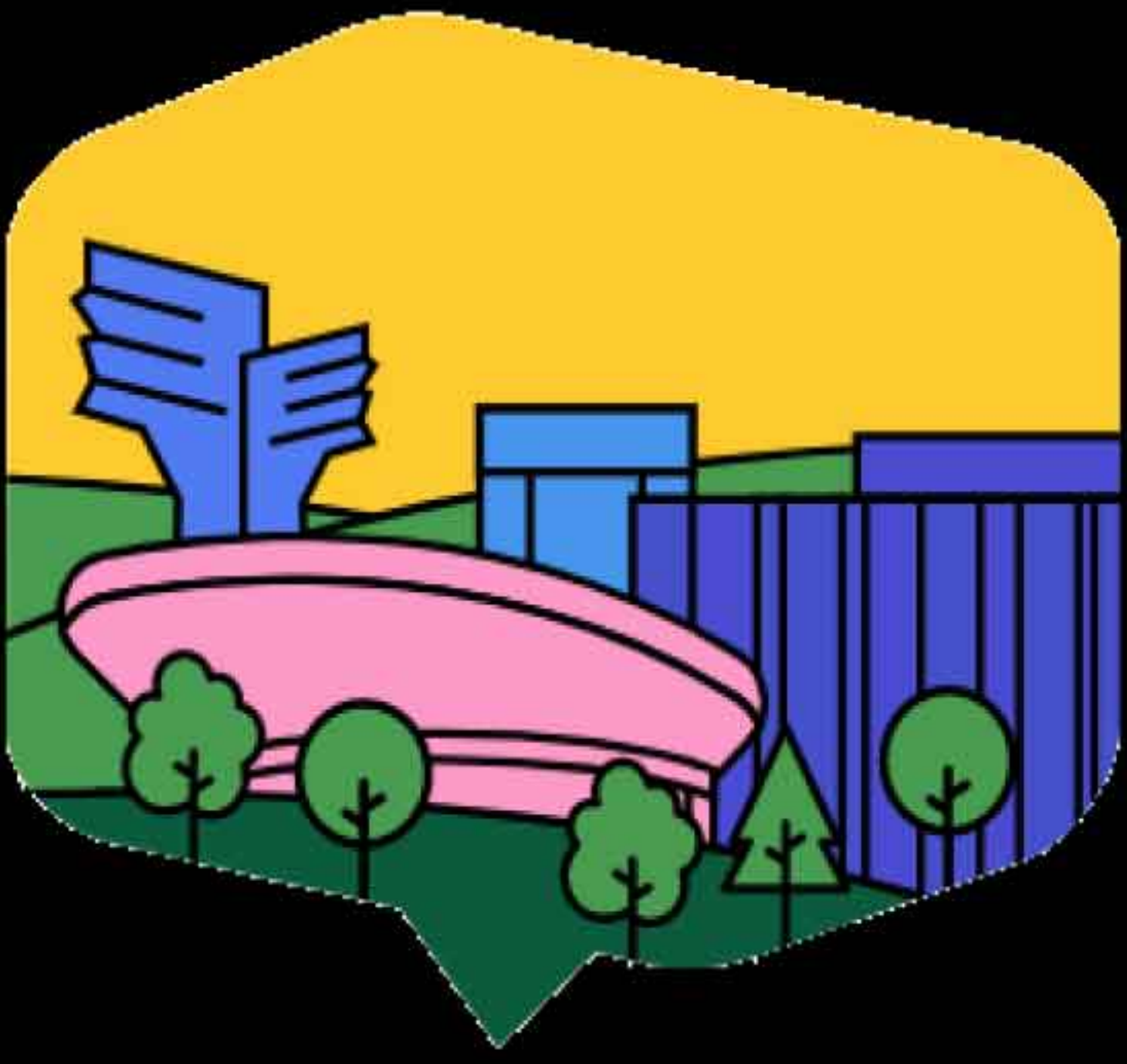


Outcomes & Benefits



BENEFITS TO THE LOCALS ECONOMY





Local And International Recognitions

01

Pantai Cunang and Sijangkang Mangrove Park was officially recognized as ASEAN ESC model Cities by IGES in 2020.

02

Platinum Awards Category Outdoor & Public Space for My Place Awards 2019 organized by Malaysia Institute Of Planner

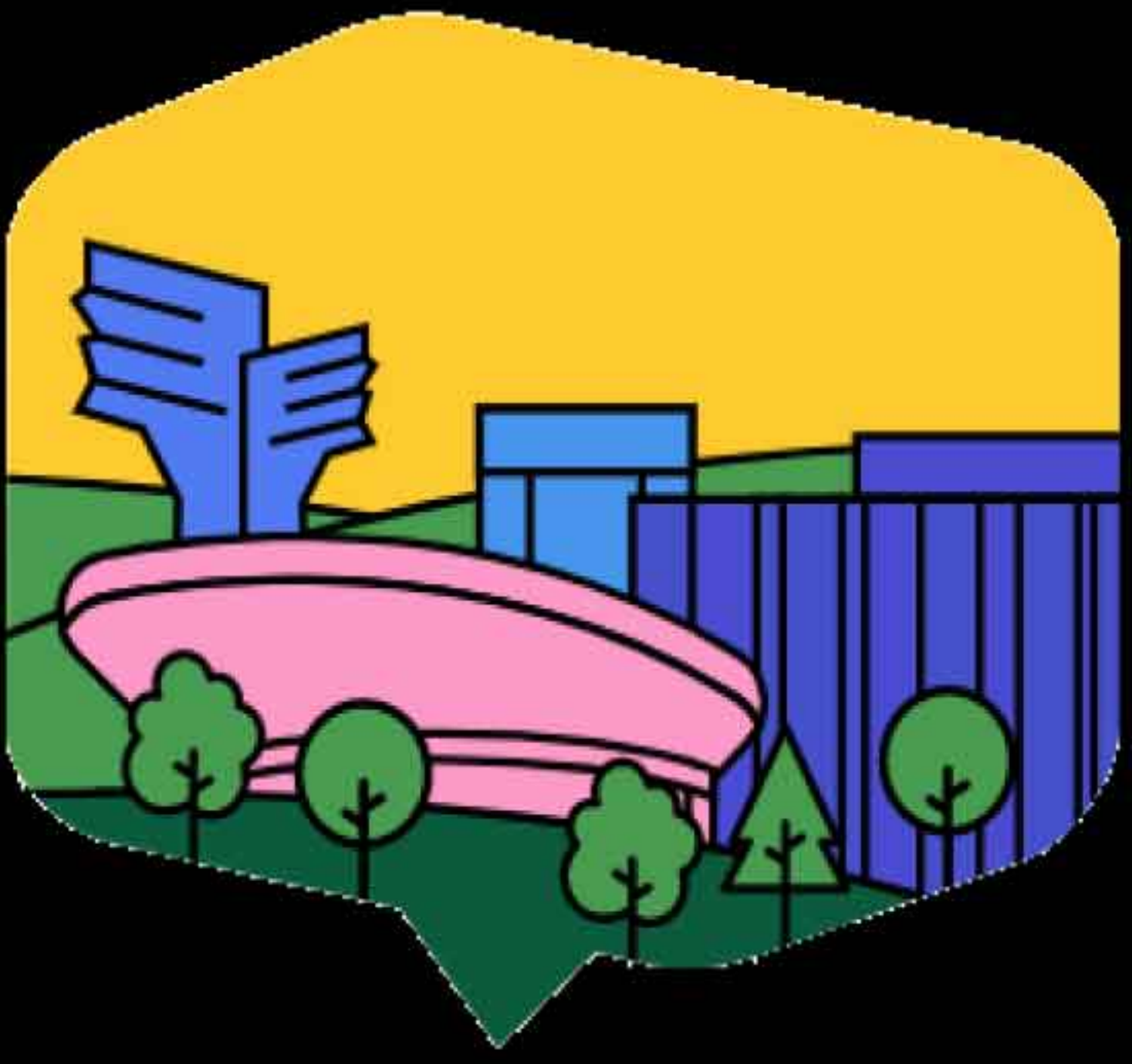
03

Green Initiative Awards 2019 under Category Community Organized by PlanMalaysia Selangor

04

National Scroll of Honour for Human Settlement Awards 2019 Organized By Ministry Of Housing and Local Government





Local And International Recognitions

05

Best River Conservation Awards 2018 under the Beach and River Adoption Programme introduce by the Selangor Government



06

Best Beach Conservation Award in 2015 under the Beach and River Adoption Programme introduce by the Selangor Government



07

Winner for Pertandingan Kampung Contoh Orang Asli Negeri Selangor 2005





KUALA LANGAT MUNICIPAL COUNCIL
Division of Sustainable Development

Persiaran Majlis,
Jalan Sultan Alam Shah,
42700 Banting,
Selangor Darul Ehsan.

Tel: 603-31872825 / 603-31872732 / 603-31878957

Fax: 603-31879304

E-mel: admin@mpkl.gov.my