

# BUILDING A GREENER FUTURE

*Over 25 Years of Sustainable Development*





## A LEGACY OF SUSTAINABLE, INCLUSIVE DEVELOPMENT

Climate change is no longer a social issue, but an existential threat. That's why nature lies at the heart of what we do, as embodied in Gamuda Land's development principle: "Listening to what the land has to tell us."

Since our first township, Kota Kemuning, more than 25 years ago, we have strived to leave the land in better shape than we found it in.

By mindfully planning every detail, we make homes and communities work for people to be a part of, grow up and grow old in, for generations to come.



## GAMUDA PARKS

With sustainability close to our hearts, we launched Gamuda Parks in 2018 to safeguard the natural environments across Gamuda Land's portfolio.

Gamuda Parks brings holistic management and consistency to our biodiversity enrichment, conservation, nature education and township design and management efforts.

Gamuda Parks' vision is to lead the nation in sustainability excellence in green innovation, community and development.

We do this in line with Gamuda Group's increasingly sophisticated approach to environmental, social and governance (ESG) principles, as embodied by the Gamuda Green Plan 2025.





## OUR CORE ELEMENTS

### Sustainable Business

Gamuda Parks nurtures the natural environment across Gamuda Land townships and communities.

We do this by mindfully managing our green infrastructure, fostering 6R waste management practices, and building a Wetlands Arboretum and research centre in the Forest Park in Gamuda Cove, among other initiatives.



### Research & Development

Gamuda Parks fosters green lifestyle awareness and adoption in all we do. We benchmark the health of flora and fauna in and around our communities with biodiversity audits, while building vibrant ecosystems by planting #OneMillionTrees by 2023.

Along the way, we work with our recognised industry partners to guide our sustainability efforts.



### Social Management Plan

We share our love of nature with our communities and partners. That is why we initiated the GParks Rangers programme under the GParks Academy.

In this way, we strive to foster greener lifestyles by reaching out to 5,000 Malaysians, while nurturing 10,000 GParks Rangers to instill environmental awareness and appreciation in the next generation.



Sustainable Planning and Design for Construction



### Gamuda Green Plan 2025

Gamuda Parks' vision is guided by the Gamuda Green Plan, which governs the sustainability of our business with targets for climate change and carbon emission management.



Environmental and Biodiversity Conservation



Enhancing Sustainability via Digitalisation



Our Community and Our Business



# OUR PARTNERS

Gamuda Parks works with leading voices from diverse disciplines to guide our sustainability efforts. Our panel experts share our passion for biodiversity, sustainability and conservation.

2018-2019



**Richard Chung, FLS**  
Head, Flora Biodiversity Program  
Senior Forest Botanist (FRIM)  
Forest Biodiversity Division (Flora Expert)



**Dato' Paduka Ir. Hj. Keizrul Bin Abdullah**  
Chairman, Wetlands International Malaysia



**Julien Hodson-Walker**  
Managing Director and Chartered Landscape Architect  
Walrus Design Sdn Bhd



**Zai Rahman**  
Environmental & Ecologist  
EnviroSolutions & Consulting Pte Ltd

2019-2021



**Richard Chung, FLS**  
Head, Flora Biodiversity Program  
Senior Forest Botanist (FRIM)  
Forest Biodiversity Division (Flora Expert)



**Dr Christine Dawn Fletcher**  
Ecologist  
Biodiversity Conservation and Ecosystem Management



**Mohd Afendi Hussin**  
Research Assistant & Arborist, Eco Tourism & Urban Forestry  
Forest Research Institute Malaysia



**Ir Dr Zaki Zainuddin**  
Doctor of Philosophy  
Environmental Engineering, Water Specialist  
Alam Sekitar Malaysia Sdn Bhd

2021-2022



**Dr Francis Ng**  
Botanist & former Deputy Director-General  
Forest Research Institute Malaysia



**Dato' Paduka Ir Hj Keizrul Bin Abdullah**  
Chairman, Wetlands International Malaysia



**Dato' Dr Saw Leng Guan**  
Former Director of Forest Biodiversity Division of Forest  
Research Institute Malaysia (FRIM)  
Curator of Penang Botanic Gardens



**Dr Christine Dawn Fletcher**  
Ecologist  
Biodiversity Conservation and Ecosystem Management



# #ONEMILLIONTREES FOR A GREENER FUTURE

At the crossroads of sustainability and suitability, we know that nature-based solutions such as tree planting are the most effective and efficient way to address climate change concerns.

That is why we have set a target to plant #OneMillionTrees across Gamuda Land townships and communities by 2023.

These trees will help manage ambient temperatures, stormwater runoff and carbon sequestration, while providing habitats for local flora and fauna.

With more than 112,000 trees planted to date, we are well on our way to our target, in support of Pillar 3 of the Gamuda Green Plan: Environmental & Biodiversity Conservation.



## FOREST PARK AND WETLANDS ARBORETUM

### Forest Park

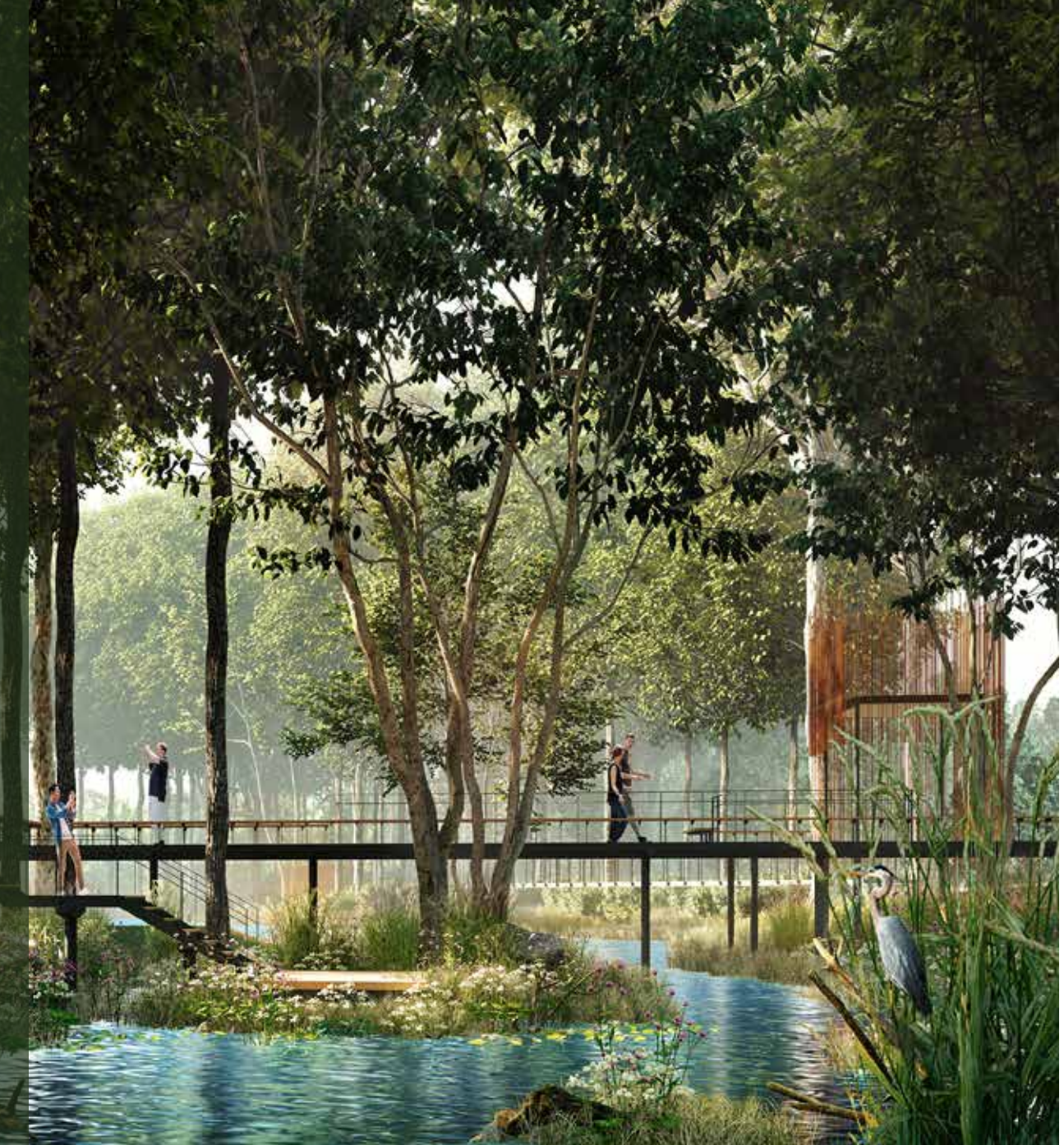
With nature at our doorstep, we have envisioned a 90-acre Forest Park in Gamuda Cove. Designed as a Riparian Jungle setup, the Forest Park lets visitors get in touch with the outdoors with recreational activities like bird watching and indigenous crafts, while enhancing their understanding about the environment through educational programmes.

The Forest Park and Wetlands Arboretum will be home to more than 300 flora and fauna species once complete, featuring 100% native species and 1,000 trees with conservation importance.

### Wetlands Arboretum

Set within the Forest Park, our Wetlands Arboretum is a living tree museum where we can conduct research and environmental programmes.

Working with native communities and conservationists, it serves as a basecamp for seed storage, recycling as well as collaboration efforts, as we safeguard and sustain the natural environment in all we do.







## ENGAGING NATIVE COMMUNITIES

In line with our inclusive development approach, Gamuda Parks has engaged Orang Asli communities in Kampung Bukit Kala and Kampung Bukit Cheeding to enrich our sustainability initiatives.

By doing this, we leverage on native expertise in wild seed propagation and local fruit trees to maximise seed harvesting and enhance biodiversity in our forest ecosystems, while fostering employment in indigenous communities.

### *Kg Bukit Kala Wild Tree Seed Bank*

- Six native representatives trained
- 50 wild tree species collected

### *Kg Bukit Cheeding Face Mask Upskilling*

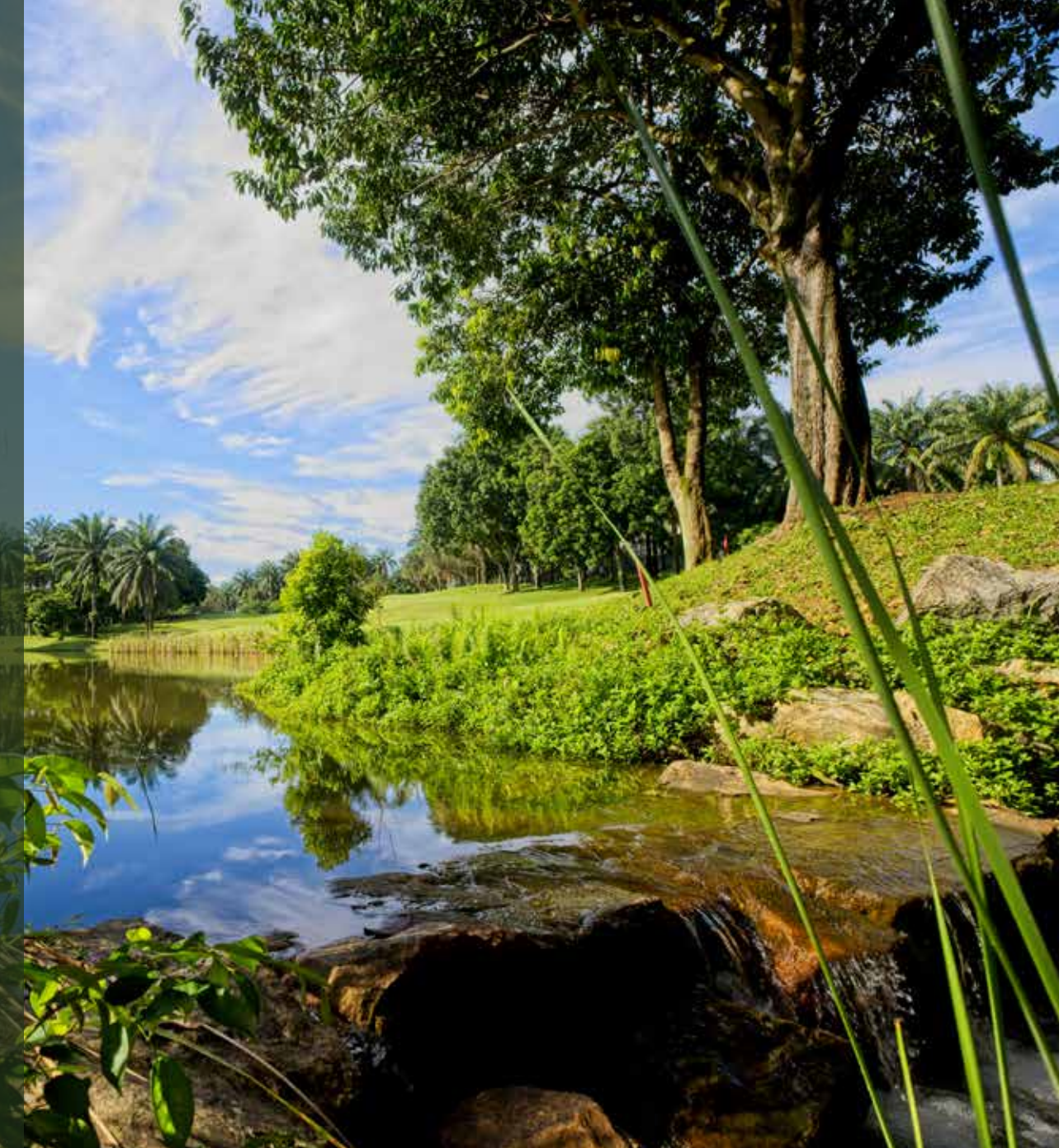
- Five native representatives trained
- 108 hours of training and support

## SAFEGUARDING OUR BIODIVERSITY

We remain vigilant in how we care for the living environments which Gamuda Parks has fostered throughout our townships and communities.

Towards this end, we conduct biodiversity audits every year to benchmark the variety of species in our landscapes and parks. At the same time, we monitor the presence of potential invasive species.

In this way, we promote the ongoing creation and implementation of ideas to enhance the maintenance of the greens across our townships and high-rise developments.







# WHAT WE FOUND

Working with our panel of environmental specialists and industry experts, we have completed more than nine biodiversity audits to date across six of our townships.

In this way, we found more than 380 flora and 46 fauna species, including 12 tree species in Valencia alone with conservation importance in the International Union for Conservation of Nature (IUCN) Red List of Threatened Species.



2018



**Gamuda Gardens**

- 96 flora species
- 48 bird species
- 11 mammal species
- 8 reptile species
- 14 insect species



**Gamuda Cove**

- 47 flora species
- 59 bird species
- 11 mammal species
- 6 reptile species
- 30 insect species

2019



**Valencia**

- 380 flora species
- 58% native flora species
- 29 bird species
- 7 mammal species
- 10 reptile species

2020



**Jade Hills**

- 57 flora species
- 57% native flora species
- 46 bird species
- 3 mammal species
- 8 reptile species
- 16 insect species



**Paya Indah Discovery Wetlands**

- 160 flora species
- 82% native flora species
- 244 bird species
- 12 mammal species
- 20 reptile species



**Celadon City**

- 170 flora species
- 52% native flora species
- 29 bird species
- 4 mammal species
- 10 reptile species
- 39 insect species



# PENANG SOUTH ISLANDS MANGROVES

As part of Gamuda Land's landmark joint venture with the Penang state government in the Penang South Islands Project, Gamuda Parks is reforesting mangrove habitats in Island A for the benefit of residents and visitors.

Mangroves serve as breeding grounds for marine life, while retaining nutrients, filtering pollutants and sequestering up to eight times more carbon than terrestrial ecologies.

They also serve to mitigate storm and tsunami impacts along the coastline, as we address rising sea levels brought about by climate change.



## WHAT WE HAVE ACCOMPLISHED

Just as we benchmark biodiversity in our townships to see how ecosystems across our communities change and grow, we also gauge our own efforts over the years to see how we can do even better.



### Green Innovation

- More than 338,792kg of garden waste collected, towards sequestering over 3,000kg of carbon dioxide emissions annually.
- Over 15,600kg of fabric waste gathered, and more than 90kg of compost produced through our Compost-on-Wheels programme.
- Three advance tree planting (ATP) nurseries spanning 85 acres total established in Gamuda Cove and Kundang Estates.
- GPS tree-tagging exercises launched in Gamuda Gardens and Gamuda Land high-rise developments.



### Sustainable Community

- Face mask upskilling, and wild seed and medicinal plant bank programmes launched with native communities.
- Over 2,400 fabric masks sewn.
- More than RM7,000 income generated for native communities.
- More than 1,043 saplings propagated towards reforestation.
- More than 3,112 GParks Rangers recruited.



### Sustainable Developments

- More than 112,000 trees planted across Gamuda Land townships.
- More than 50% of native tree species and 5% of species with conservation value planted.
- Paya Indah Discovery Wetlands conservation and Environmental Education programmes launched.



# OUR PLAN IN ACTION

Listening to what the land has to tell us as we continue to strive towards our goals, we group our initiatives according to three key thrusts to guide sustainability efforts across our communities.

Our Green Thrust relates to how we manage flora and fauna – the plant and animal life in our townships and developments.

Our Blue Thrust governs how we work with water bodies and water features to bring commercial, functional, environmental and aesthetic benefits.

Finally, our Brown Thrust encompasses the hardscape elements of our developments, such as soil, equipment, structures and other man-made features.



**GREEN**  
Flora & Fauna



**BLUE**  
Waterways



**BROWN**  
6R Waste Management



# THE GREEN

## Advance Tree Planting (ATP)

Using ATP methods, we grow trees to maturity then plant them in our townships and developments. In this way, we maximise seedling viability and minimise logistics costs, while delivering mature trees to enhance the liveability of our townships.

## Introducing native species

Gamuda Parks is committed to propagating native species across Gamuda Land developments. These species are well-suited to local terrain and climates, reducing maintenance costs while preserving the equilibrium of surrounding ecosystems.

## Terrain-guided approach

By listening to what the land has to tell us, Gamuda Parks guides sustainable development in Gamuda Land townships by building according to the natural slopes and levels of the existing landscape.

In doing so, we minimise cut-and-fill practices while enhancing slope stability and rainwater filtration. At the same time, we deliver scenic vistas leveraging on the natural heritage of the site for homeowners.







### Wetlands and waterways

Water features serve as cooling agents in our townships, preserving biodiversity, mitigating floods and replenishing groundwater.

Ambient temperatures around water bodies can be up to 25°C cooler in the shade, with up to 50% less air-conditioning costs for surrounding homes. To date, Gamuda Parks has allocated more than 350 acres for water bodies across Gamuda Land developments.

### Self-regulating lakes

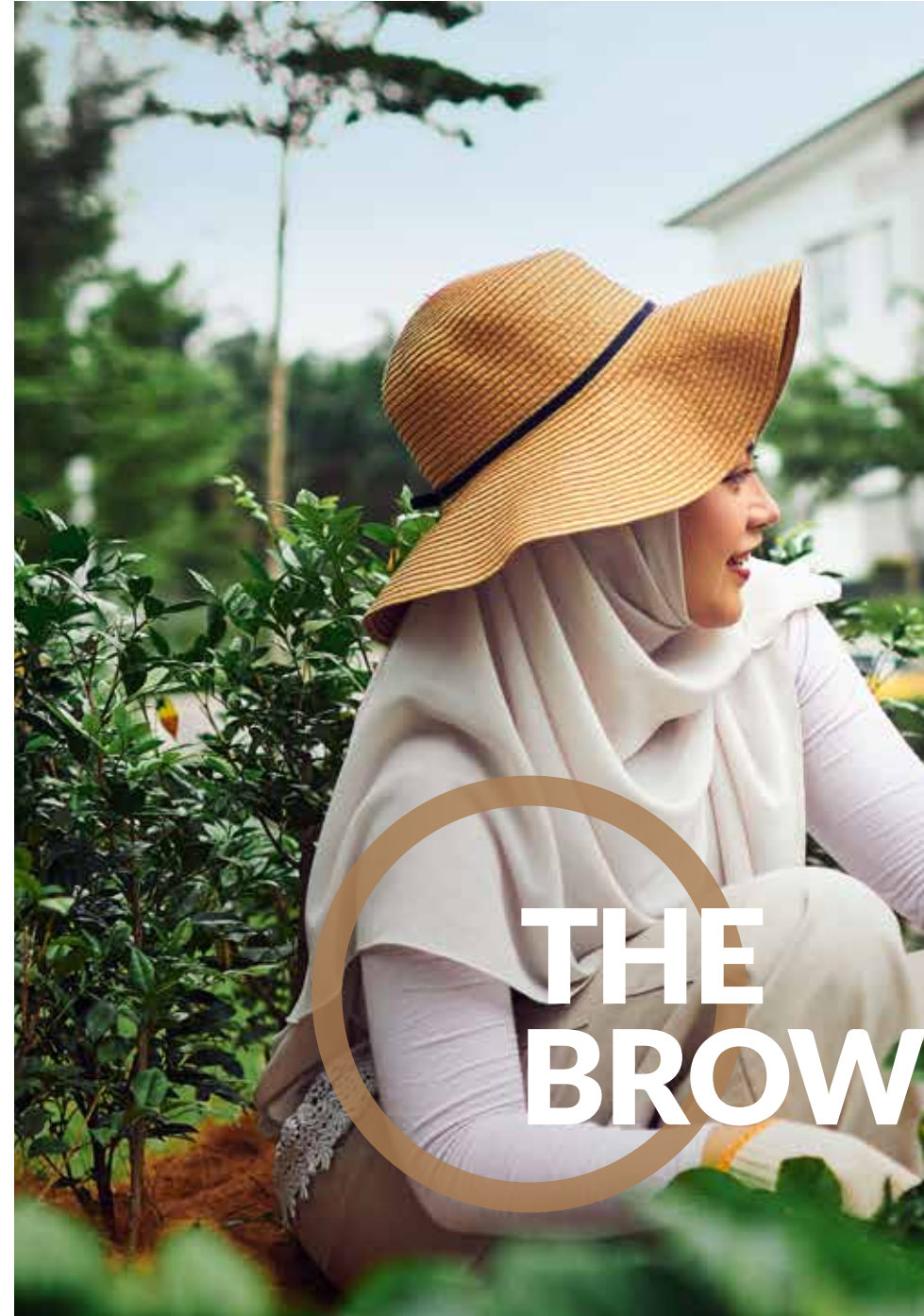
Just like we listen to what the land has to tell us when planning our green spaces, Gamuda Parks allows rivers and lakes to flow naturally across our townships.

This reduces digging and maintenance costs from man-made systems, while the natural flow of water through gravity and wind removes contaminants from surrounding ecosystems.

### Bioswale and rainwater harvesting

Gamuda Parks creates channels called bioswales in our green spaces to manage excess rainwater. We also seed native plants in our bioswales to filter contaminants from the water, while providing habitats and food for birds and insects.

# THE BLUE



# THE BROWN

### Permeable pavements

We strive to live in harmony with our natural surroundings, replacing harder elements like concrete pavers with permeable laterite walkways. These paths allow more water to enter the ground, replenishing the land's supply of potable water.

### Community farming

Gamuda Parks promotes community farming across Gamuda Land townships and developments, so owners and residents can experience the joy of growing their own greens.

#### Community Farms in Gamuda Land Townships

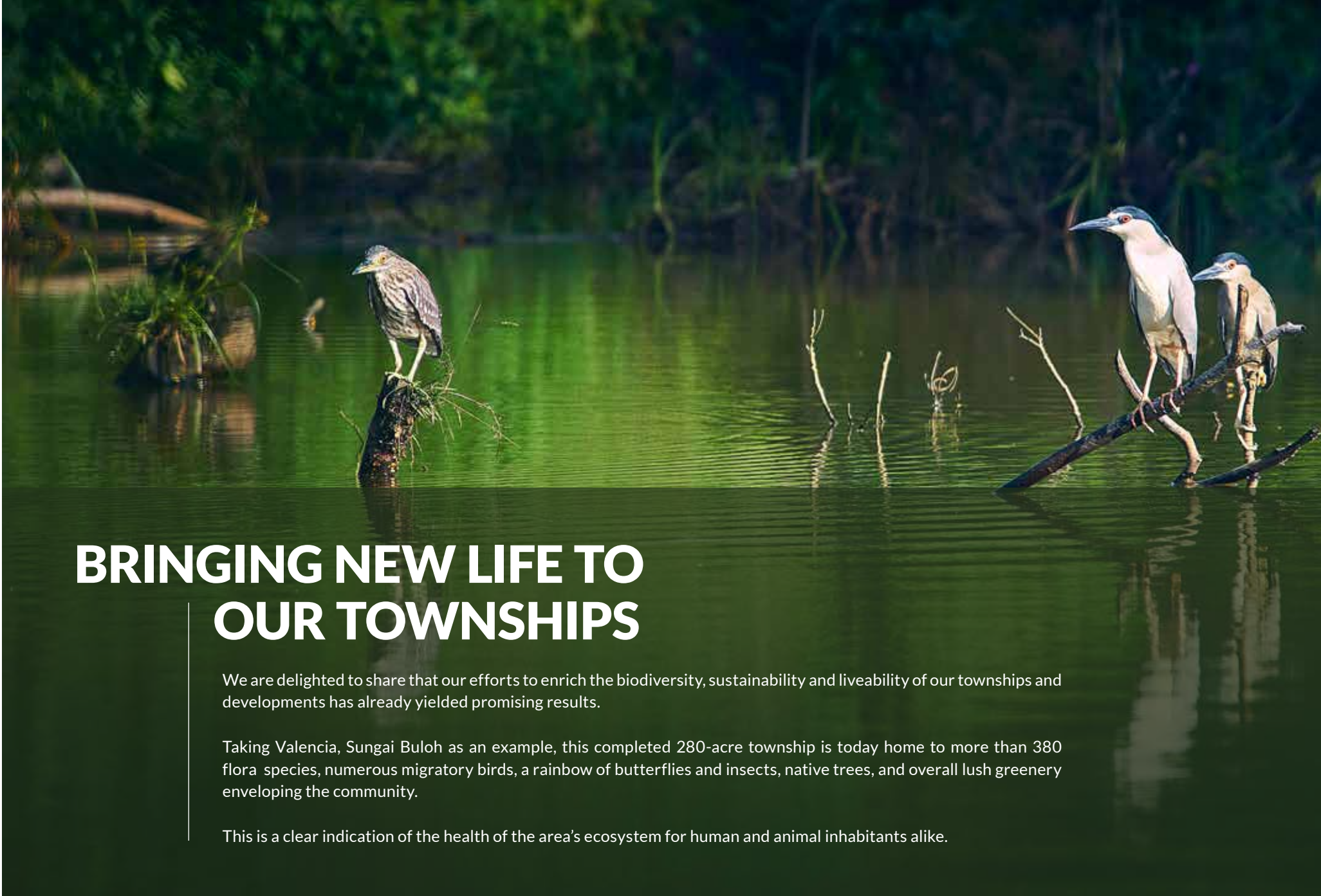
Township	Completion
The Robertson	2016
Horizon Hills	2017
Gamuda Gardens	2019
Kundang Estates	2019

### Topsoil Harvesting

We harvest and stockpile the topsoil in our projects, which contains nutrients necessary for plant growth. In this way, we drive the growth of healthy, highly adaptable flora ecosystems with optimal drainage, oxygenation, root structures and availability of minerals such as phosphorus and nitrogen.







# BRINGING NEW LIFE TO OUR TOWNSHIPS

We are delighted to share that our efforts to enrich the biodiversity, sustainability and liveability of our townships and developments has already yielded promising results.

Taking Valencia, Sungai Buloh as an example, this completed 280-acre township is today home to more than 380 flora species, numerous migratory birds, a rainbow of butterflies and insects, native trees, and overall lush greenery enveloping the community.

This is a clear indication of the health of the area's ecosystem for human and animal inhabitants alike.



## Thank You For Journeying With Us

Gamuda Parks is our labour of love.

It is our sincere hope that our world – and the natural environments that we live in – can offer prime liveability without compromising the wonders of nature for the enjoyment of our children and their children.

By conducting regular biodiversity audits and working with passionate environmental experts, we hope to preserve our parks for posterity.

We thank you for believing in us and trusting our capabilities as a town maker – but most of all, as the maker of your home.

Besides being bright, the future is looking green for all of us.



“ *We are custodians entrusted with the responsibility of leaving our land in better shape than we found it in.* ”

**Khariza Abdul Khalid**  
Chief Operating Officer  
Gamuda Parks



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