

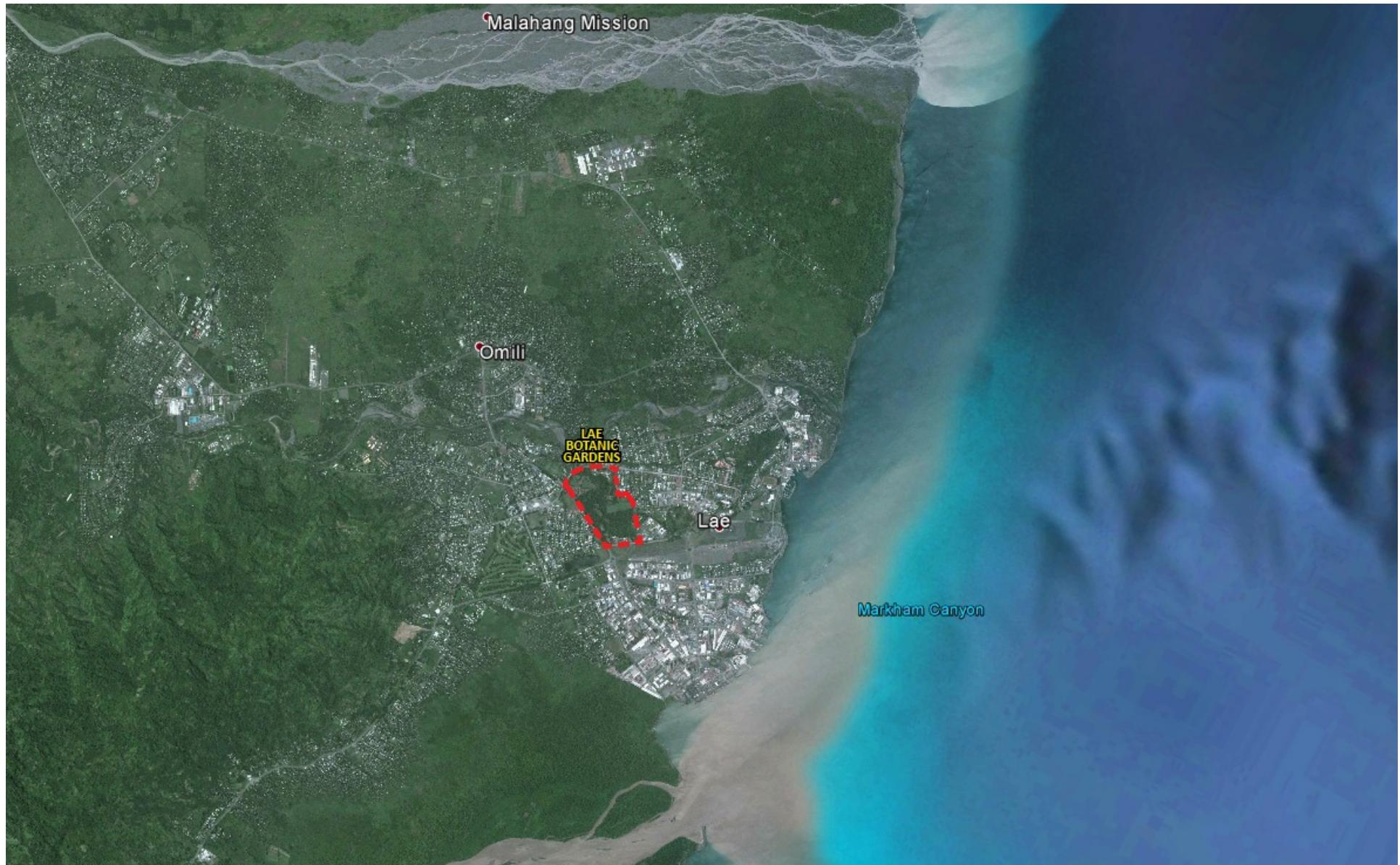


Lae National Botanic Gardens –
Four Themed Gardens October
2015

Thank You!



Lae National Botanic Gardens –
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LAE BOTANIC GARDENS, LAE, PNG
LOCATION OF LAE BOTANIC GARDENS
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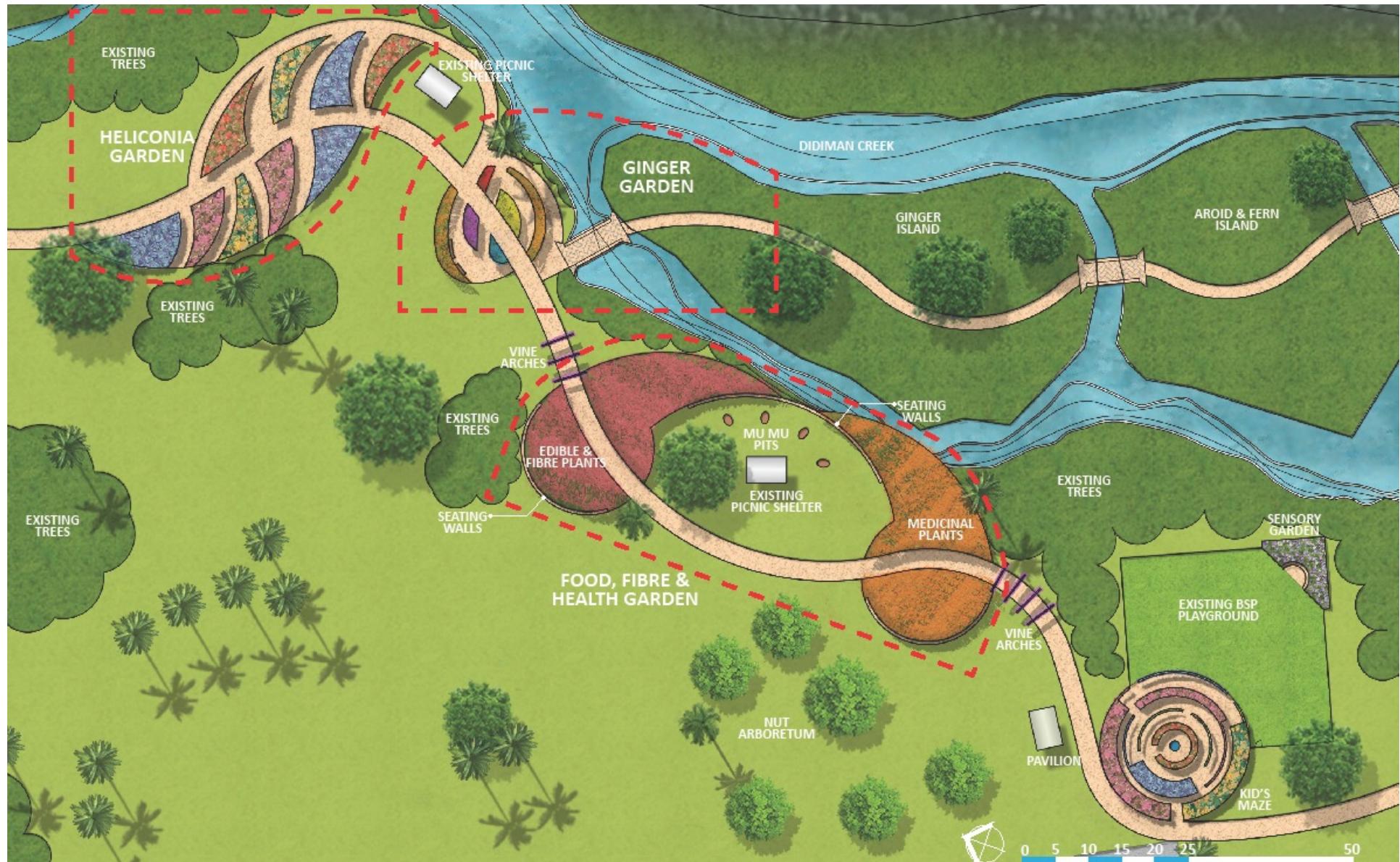
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PROPOSED THEMED GARDENS - NORTHERN PRECINCT
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3 THEMED GARDENS
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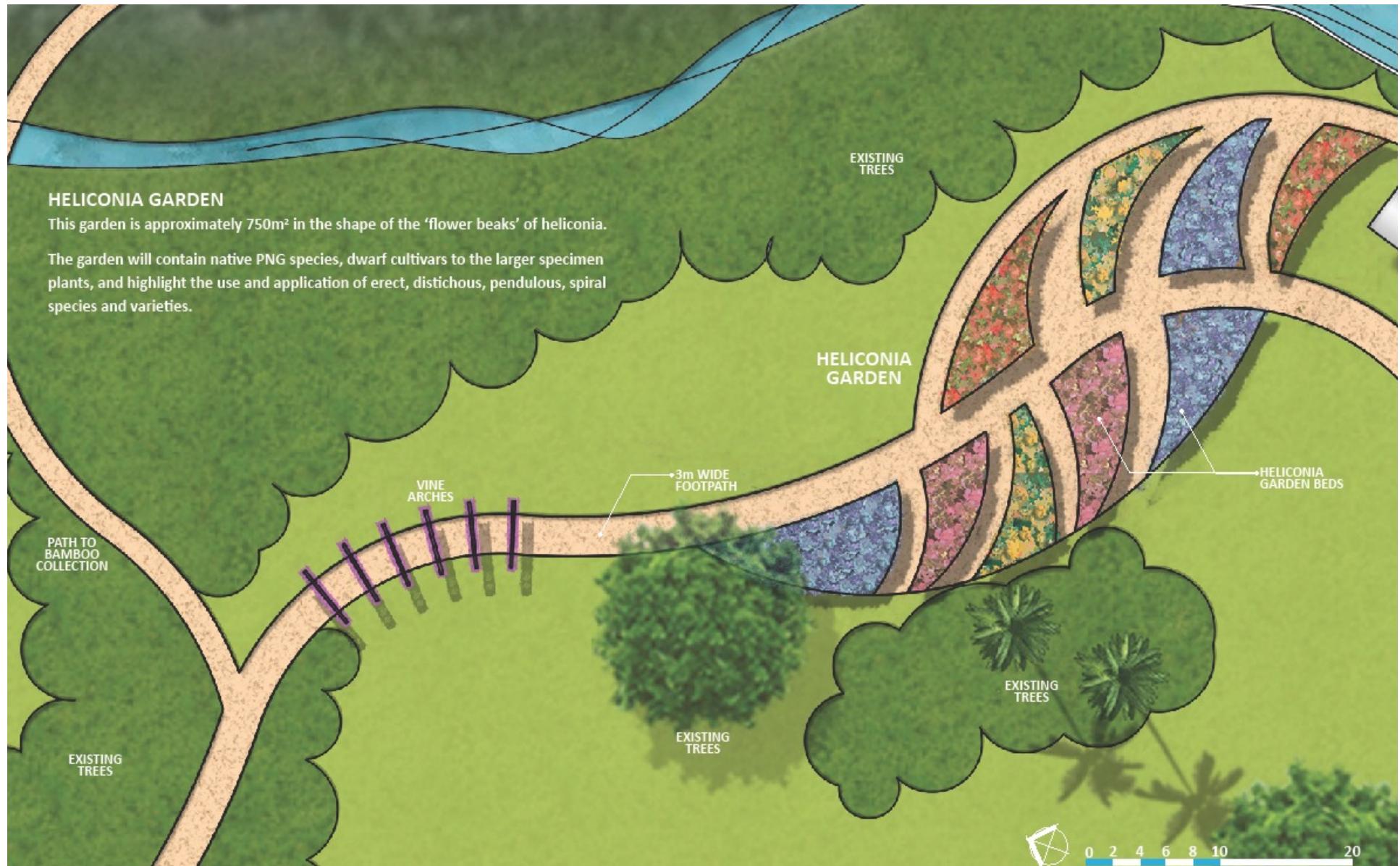
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The Heliconia Garden

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HELICONIA GARDEN

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Heliconia papuana



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Heliconia wagneriana 'Turbo'

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Heliconia rostrata



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Heliconia psittacorum
'Lady Di'



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Heliconia chartaceae **'Sexy Pink'**



Lae National Botanic Gardens – Four Themed Gardens October 2015



PENDENT DISTICHOUS



Heliconia rostrata
Hanging Lobster Claws



Heliconia mariae 'Beefsteak'
Heliconia Beefsteak

PENDENT SPIRAL



Heliconia chartacea 'Sexy Pink'
Heliconia Sexy Pink

PENDENT DISTICHOUS

<u>Botanical Name</u>
<i>Heliconia mariae 'Beefsteak'</i>
<i>Heliconia rostrata</i>
<i>Heliconia solomonensis</i>

PENDENT SPIRAL

<u>Botanical Name</u>
<i>Heliconia chartacea 'Sexy Pink'</i>
<i>Heliconia chartacea 'She'</i>
<i>Heliconia trichocarpa</i>

ERECT DISTICHOUS

<u>Botanical Name</u>
<i>Heliconia papuana</i>
<i>Heliconia indica 'Rabaul'</i>
<i>Heliconia bihai 'Emerald Forest'</i>
<i>Heliconia bihai x caribea 'Hot Rio Nights'</i>
<i>Heliconia stricta 'Dwarf Wag'</i>
<i>Heliconia stricta</i>
<i>Heliconia psittacorum 'Lady Di'</i>
<i>Heliconia psittacorum 'Sassy'</i>
<i>Heliconia caribaea</i>

ERECT SPIRAL

<u>Botanical Name</u>
<i>Heliconia aemygdiana 'Burle Marx'</i>
<i>Heliconia latifolia</i>
<i>Heliconia spissa 'Mexico Red'</i>
<i>Heliconia wagneriana 'Turbo'</i>

ERECT DISTICHOUS



Heliconia papuana
Heliconia



Heliconia psittacorum 'Lady Di'
Heliconia Lady Di

ERECT SPIRAL



Heliconia wagneriana 'Turbo'
Heliconia



Heliconia spissa 'Mexico Red'
Heliconia Mexico Red



Heliconia spissa 'Mexico Red'
Heliconia Mexico Red



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PLANTING SCHEME - HELICONIA GARDEN
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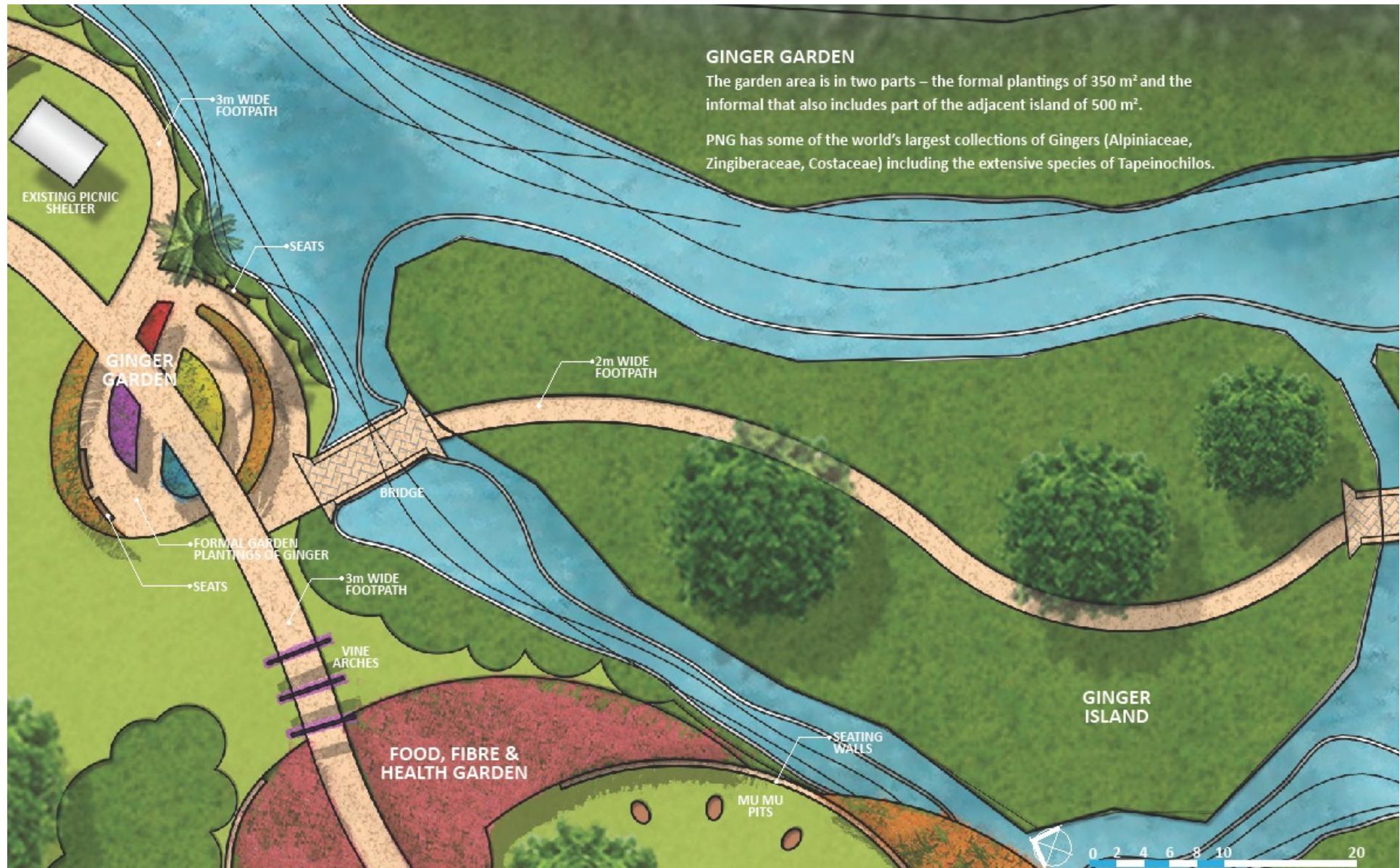


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The Ginger Garden



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RESEARCH
INSTITUTE
Papua New Guinea

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GINGER GARDEN

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Zingiber olivaceum “Singapore Gold”



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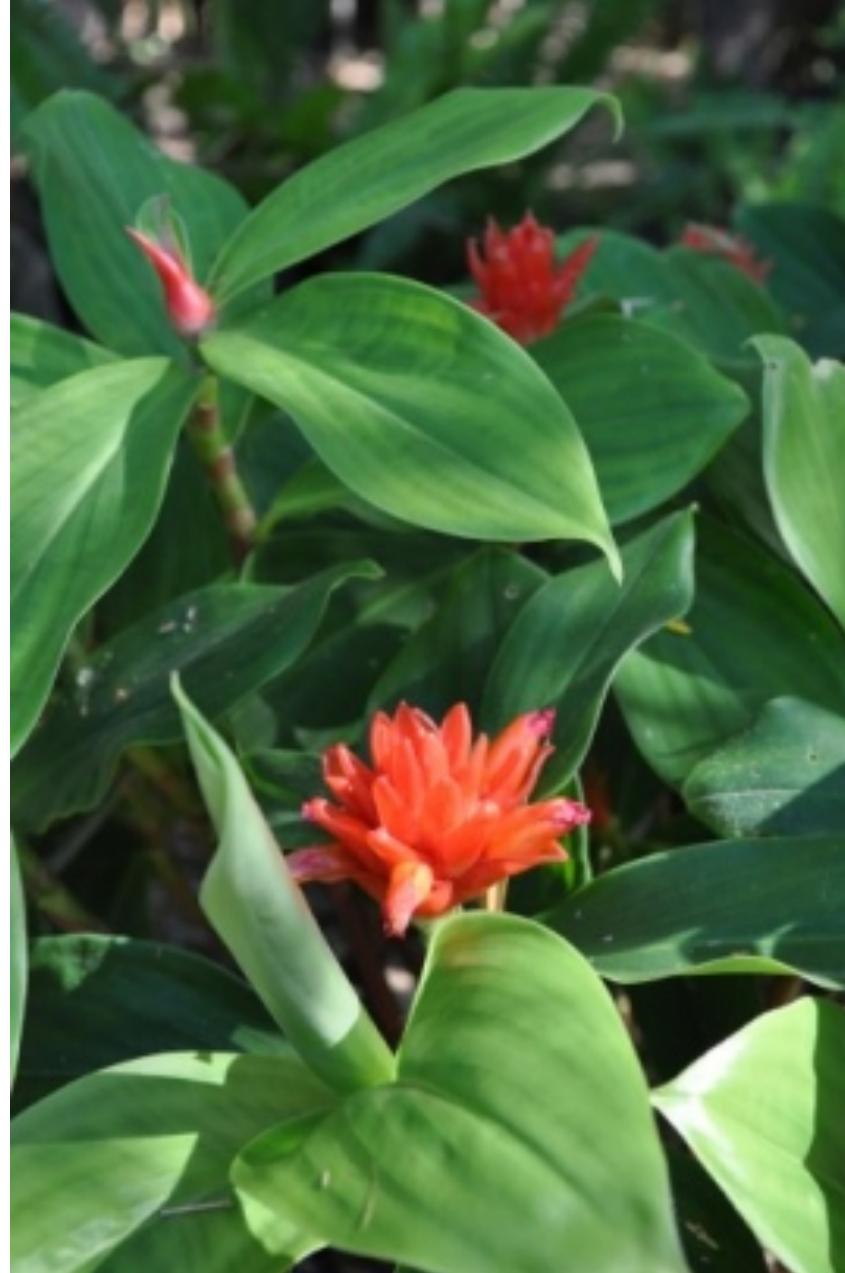


Alpinia zerumbet 'variegata'

Lae National Botanic Gardens – Four Themed Gardens October 2015



Costus productus



Lae National Botanic Gardens – Four Themed Gardens October 2015



***Etlingera
elatior***

**Pink Torch
Ginger**



Lae National Botanic Gardens – Four Themed Gardens October 2015





***Tapenicheilos ananassae* – Back Scratcher Ginger**

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ALPINIACEA



Alpinia zerumbet 'Variegata'
Variegated Ginger



Costus productus
Costus

COSTACEAE



Etlingera elatior
Pink Torch Ginger



Costus rubra
Costus



Etlingera elatior
Red Ginger



Zingiberaceae spectabilis
Beehive Ginger

ALPINIACEA

Code	Botanical Name
ALP arc	<i>Alpinia arctiflora</i>
ALP cae	<i>Alpinia caerulea</i>
ALP mod	<i>Alpinia modesta</i>
ALP mut	<i>Alpinia mutica</i>
ALP nut	<i>Alpinia nutans</i>
ALP oce	<i>Alpinia oceanica</i>
ALP pur	<i>Alpinia purpurata</i>
ALP pur	<i>Alpinia purpurata</i>
ALP san	<i>Alpinia sanderae</i>
ALP v GOL	<i>Alpinia zerumbet 'Gold'</i>
ALP var	<i>Alpinia zerumbet 'Variegata'</i>
ALP vit	<i>Alpinia vittata</i>
ALP zer	<i>Alpinia zerumbet</i>

Common Name
Snow Ginger
Blue-berry Ginger
Small Ginger
False Cardemon
False Cardamom
White Ginger
Red Ginger
Red Ginger
Variegated Ginger
Gold Shell Ginger
Variegated Shell Ginger
Marble Ginger
Shell Ginger

COSTACEAE

Code	Botanical Name
COS bar	<i>Costus barbatus</i>
COS guy	<i>Costus guyanensis</i>
COS pot	<i>Costus potterae</i>
COS pro	<i>Costus productus</i>
COS rub	<i>Costus rubra</i>
COS spe	<i>Costus speciosa</i>
COS ste	<i>Costus stenophyllus</i>
COS var	<i>Costus speciosa</i>

Common Name
Barbatus
Buddha Belly Costus
Native Grepe Ginger
Costus
Costus
Costus
Bamboo Costus
White Costus

ZINGIBERACEAE

Code	Botanical Name
ETL ela	<i>Etlingera elatior</i>
ZIN spe	<i>Zingiberaceae spectabilis</i>
ZIN v BOR	<i>Zingiber v 'Borneo Red'</i>
ZIN v MAC	<i>Zingiber sp 'The Mace'</i>
ZIN v PIP	<i>Zingiber v 'Pipe Ginger'</i>
ZIN ven	<i>Zingiber venosum</i>

Common Name
Red Torch Ginger
Beehive Ginger
Borneo Red Ginger
Pink Ginger
Pipe Ginger
Black Ginger



Costus speciosa
Costus



Tapeinochilos ananassae
Backscratcher Ginger



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PLANTING SCHEME - GINGER GARDEN
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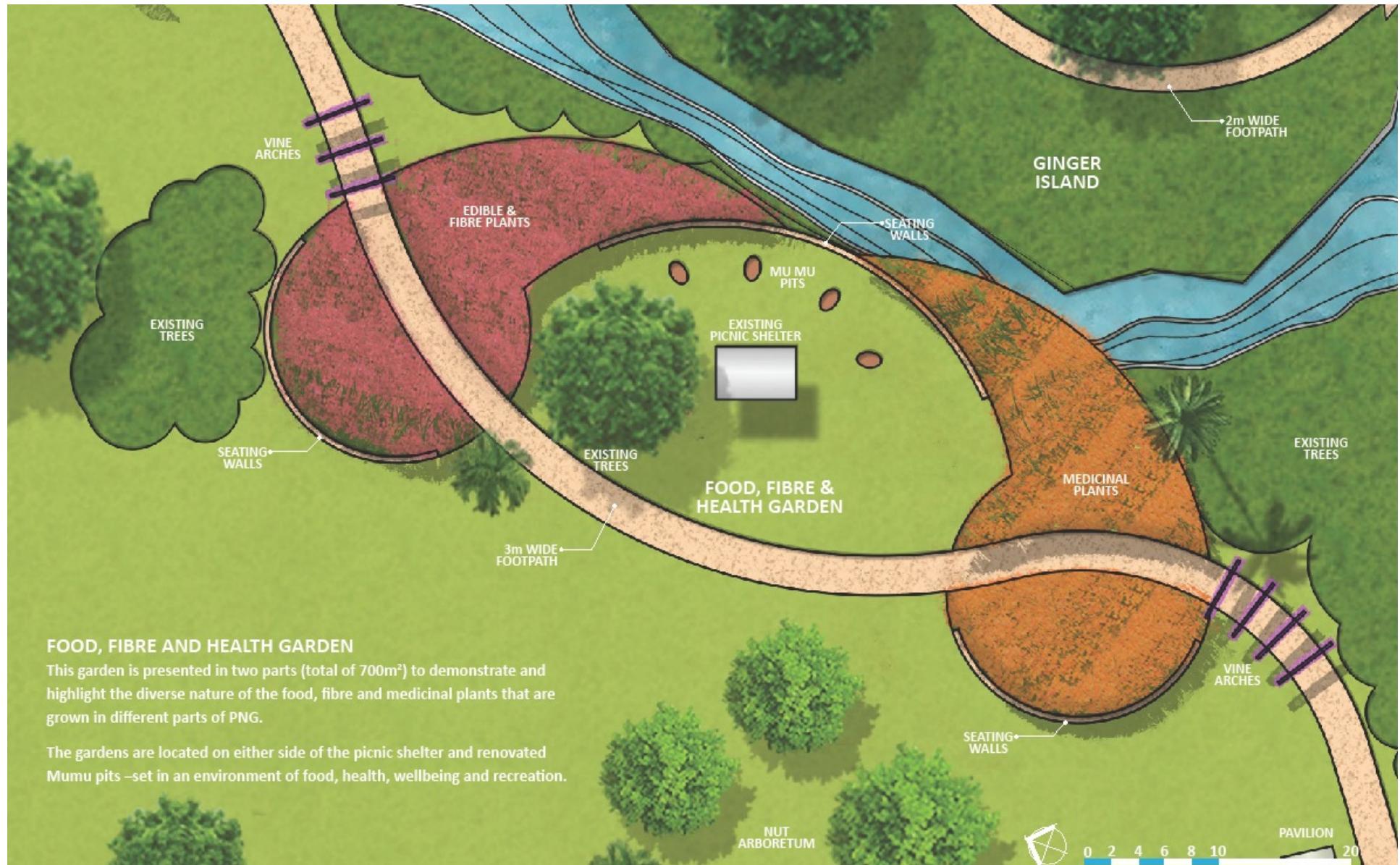


The Food, Fibre and Health Garden



Lae National Botanic Gardens – Four Themed Gardens October 2015





FOOD, FIBRE AND HEALTH GARDEN

This garden is presented in two parts (total of 700m²) to demonstrate and highlight the diverse nature of the food, fibre and medicinal plants that are grown in different parts of PNG.

The gardens are located on either side of the picnic shelter and renovated Mumu pits –set in an environment of food, health, wellbeing and recreation.



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FOOD, FIBRE & HEALTH GARDEN

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#1184

NUT / FIBRE TREES



Terminalia catappa
Talis



Artocarpus altilis
Breadfruit



Myristica fragrans
Nutmeg

NUT / FIBRE TREES

Code	Botanical Name
ART alt	<i>Artocarpus altilis</i>
BAR edu	<i>Barringtonia edulis</i>
BAR nov	<i>Barringtonia novae-hiberniae</i>
BAR pro	<i>Barringtonia procera</i>
CAN ind	<i>Canarium indicum</i>
CAS acu	<i>Castanopsis acuminatissima</i>
INO fag	<i>Inocarpus fagifer</i>
MYR fra	<i>Myristica fragrans</i>
PAN bro	<i>Pandanus brosimos</i>
PAN dub	<i>Pandanus dubius</i> (karuka)
PAN edu	<i>Pangium edule</i>
PAN jul	<i>Pandanus julianetti</i>
PER ame	<i>Persea americana</i>
TER cat	<i>Terminalia catappa</i>
TER imp	<i>Terminalia impediens</i>
TER kae	<i>Terminalia kaembachii</i>
TER meg	<i>Terminalia megacarpa</i>

Common Name
Breadfruit
Pao
Pao
Pao
Galip
Castanopsis
Aila
Nutmeg
Karuka
Karuka
Sis
Karuka
Avocado
Talis
Okari
Okari
Dausia



Barringtonia edulis
Pao



Canarium indicum
Galip



Pangium edule
Sis



Pandanus brosimos
Karuka



Pandanus brosimos
Avocado



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PLANTING SCHEME - FOOD, FIBRE & HEALTH GARDEN
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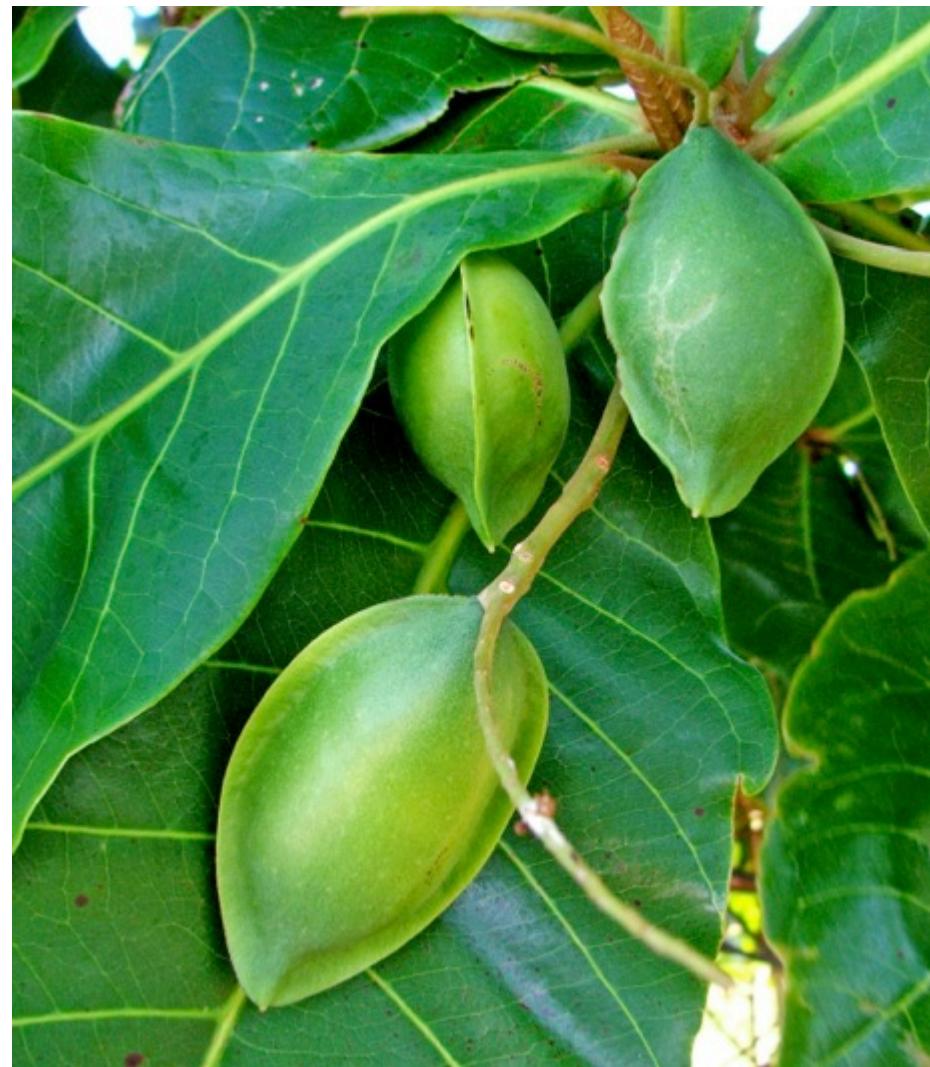


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Terminalia cattapa – Nut Tree



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TARO



Alocasia macrorrhiza
Giant Taro



Colocasia esculenta
Taro



Citrus paradise
Grapefruit

TARO

Code	Botanical Name
ALO mac	<i>Alocasia macrorrhiza</i>
COL esc	<i>Colocasia esculenta</i>
CYT mer	<i>Cyrtosperma merkusii</i>

Common Name
Giant Taro
Taro
Swamp Taro

KITCHEN & BACKYARD

Code	Botanical Name
AMA cru	<i>Amaranthus cruentus</i>
ANA com	<i>Ananas comosus</i>
ARA pin	<i>Arachis pintoi</i>
CAR pap	<i>Carica papaya</i>
CIT par	<i>Citrus paradise</i>
COL esc	<i>Colocasia esculenta</i>
COR fru	<i>Cordyline fruticosa</i>
CYC int	<i>Cyclosorus interruptus</i>
CYM nar	<i>Cymbopogon nardus</i>
DIO ala	<i>Dioscorea alata</i>
DIO bul	<i>Dioscorea bulbifera</i>
IPO bat	<i>Ipomea batatas</i>
MAN esc	<i>Manihot esculenta</i>
MUS bal	<i>Musa balbisiana</i>
PAS lig	<i>Passiflora ligularis</i>
PAS mol	<i>Passiflora quadrangularis</i>
RUG klo	<i>Rungia klossii</i>
SYZ ros	<i>Syzygium aqueum</i>
THE cac	<i>Theobroma cacao</i>
ZIN off	<i>Zingiber officinale</i>

Common Name
Purple Amaranthus
Pineapple
Peanut
Paw Paw
Grapefruit
Taro
Good Luck Plant
Pamba
Citronella Grass
Greater Yam
Aerial Yam
Sweet Potato
Cassava
Plantain
Highland Yellow Passionfruit
Passionfruit
Mushroom Plant
Rose Apple
Cocoa
Edible Ginger

KITCHEN & BACKYARD



Amaranthus cruentus
Purple Amaranthus



Ananas comosus
Pineapple



Dioscorea alata
Greater Yam



Cyclosorus interruptus
Pamba



Ipomea batatas
Sweet Potato



Manihot esculenta
Cassava



Syzygium aqueum
Rose Apple



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PLANTING SCHEME - FOOD, FIBRE & HEALTH GARDEN
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Colocasia esculenta - Taro



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Theobroma

cacao

COCOA



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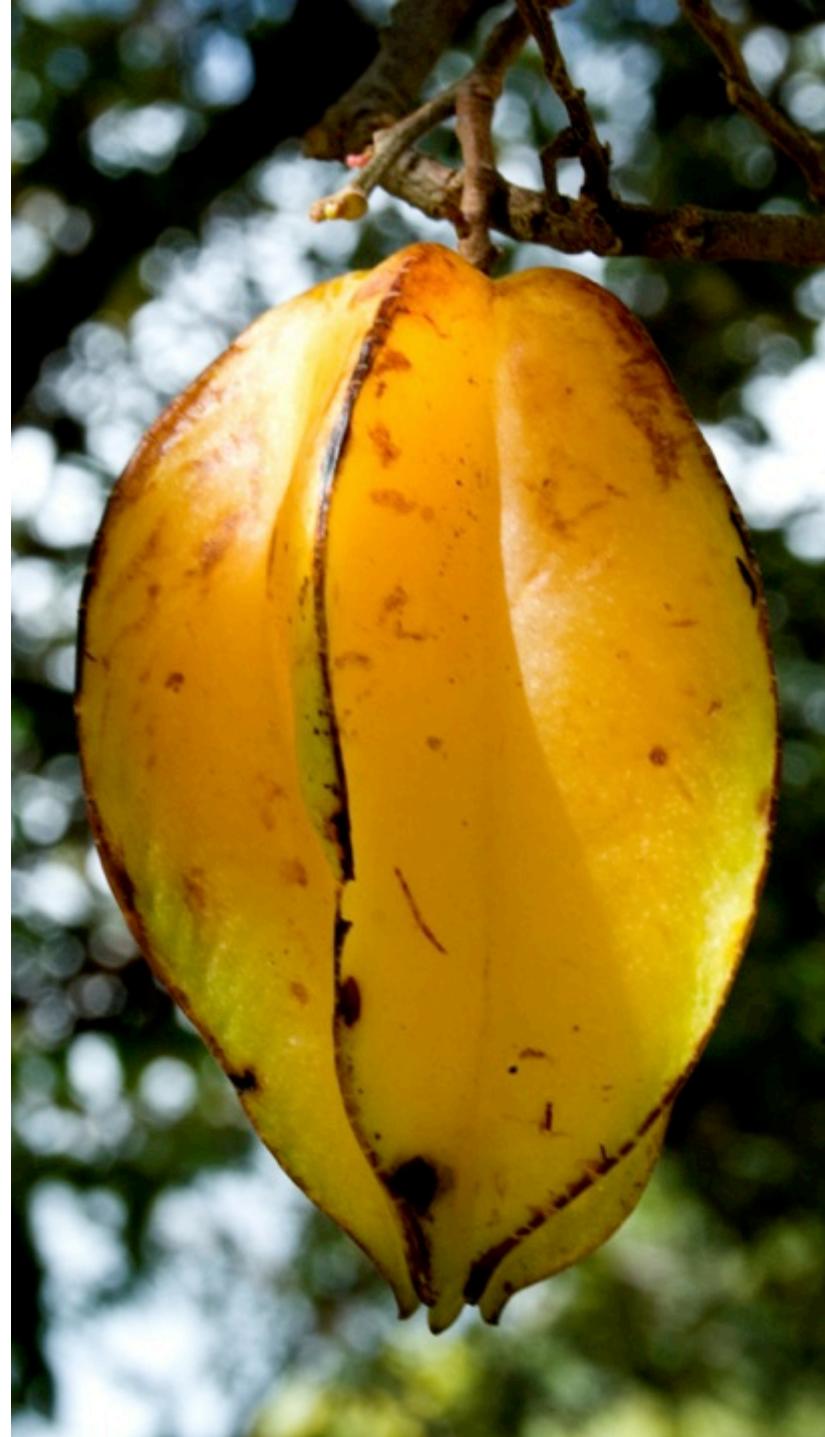
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Discorea bulbifera - Tree Yam



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Averroah carambola



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MEDICINAL PLANTS



Dianella ensifolia
Mamuha



Graptophyllum pictum
Good Luck Plant



Cordyline fruticosa
Good Luck Plant



Leucosyke capitellata
Hagaza



Melastoma malabathricum
Tawakaya



Morinda citrifolia
Noni

MEDICINAL PLANTS

Code	Botanical Name
BLU arm	<i>Blumea armakidophora</i>
CAL mag	<i>Calycanthus magnusiana</i>
COR fru	<i>Cordyline fruticosa</i>
CYC int	<i>Cyclosorus interruptus</i>
DIA ens	<i>Dianella ensifolia</i>
EMI pre	<i>Emilia preantheidea</i>
EUS lat	<i>Eustrephus latifolius</i>
GRA pic	<i>Graptophyllum pictum</i>
LEU cap	<i>Leucosyke capitellata</i>
MEL cis	<i>Melothria cissymbium</i>
MEL mal	<i>Melastoma malabathricum</i>
MOR cit	<i>Morinda citrifolia</i>
PIP arg	<i>Pipturus argenteus</i>
PIT sin	<i>Pittosporum sinuatum</i>
PLE scu	<i>Plectranthus scutellarioides</i>
PTI cos	<i>Ptisana costulisora</i>
SCA opp	<i>Scaevola oppositifolia</i>
URT dec	<i>Urticastrum decumanum</i>
TAS pip	<i>Tasmannia piperita</i>

Common Name
Kambali (Boils)
Ikowote (Sores)
Gini fono (Anemia)
Pamba (Burns)
Mamuha (Coughs & Mucus)
Tani (Boils)
Haya Sono (anti helminthic)
Various ailments
Hagaza (skin diseases)
Tipereluka (Tropical Ulcers)
Tawakaya (Swelling)
Noni
Aseyaha (Anti helmenthic)
Ilawau-u
Kondo (Scabies, Dysentry, Ulcers)
Amalo (Cuts & Sores)
Kaupa (Sore Eyes, Tropical Ulcers)
Natbone (Various ailments)
Iridukichale (Malaria & Cough)



Plectranthus scutellarioides
Kondo



Cyclosorus interruptus
Pamba



Pipturus argenteus
Aseyaha



Scaevola oppositifolia
Kaupa



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Dianella ensifolia – Ornamental/ Coughs and mucus



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Leucosyke capitella - Hagaza (Skin Diseases)



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Melastoma malabathicum – (Swelling)



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Leucosyke capitellata - Hagaza – (Skin Diseases)



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Cordyline fruticosa - Ornamental (Anemia)



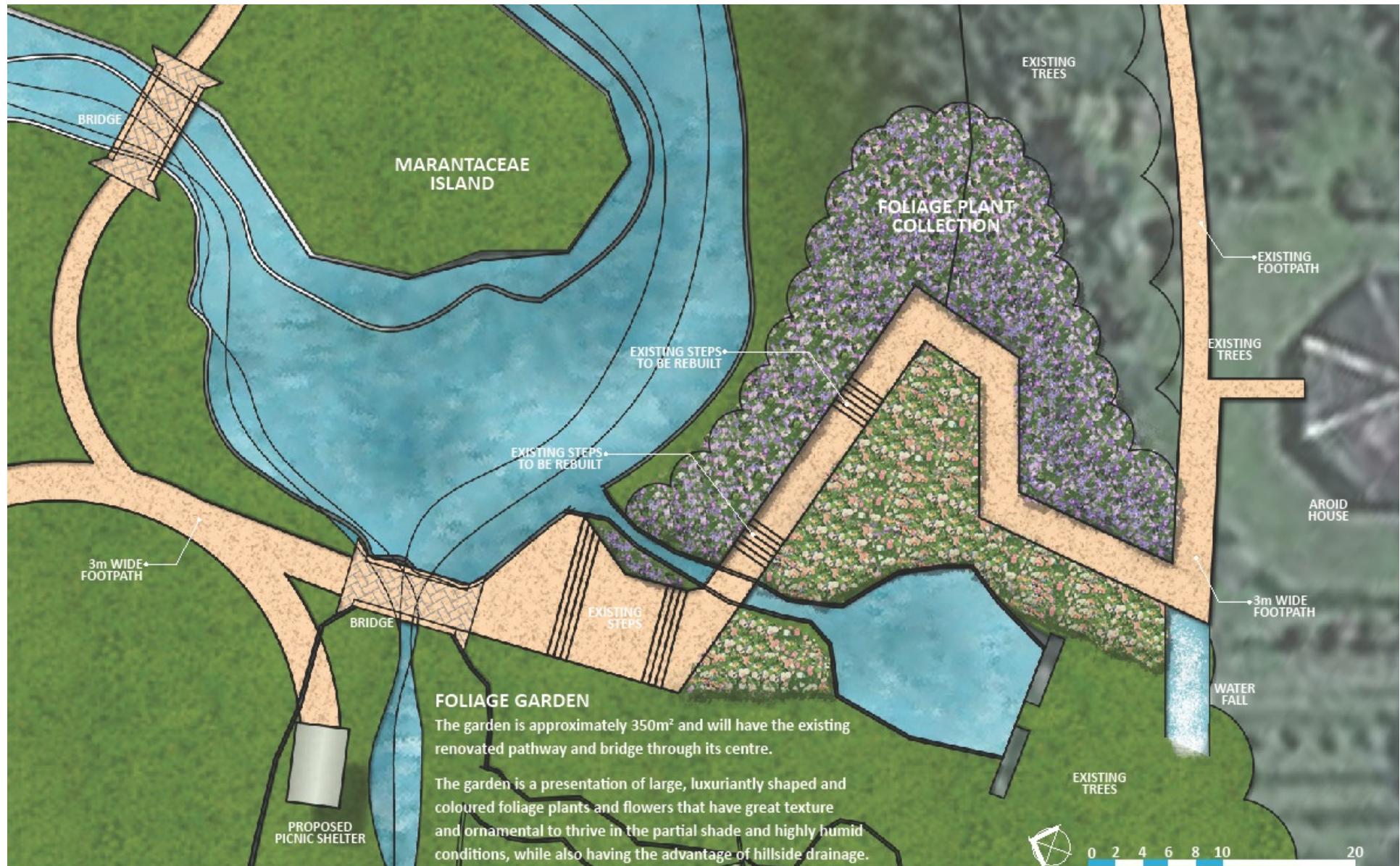
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The Foliage Garden



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FOLIAGE GARDEN
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Lush Textures – Leaf shapes and Colour



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Foliage highlighted by Medinilla with park furniture



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Foliage Textures - Shapes - Materials



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Pandanus pygmaeus, Costus stenophyllum & Alpinia zerumbet variegata



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N.G Impatiens Cultivars



Calathea crotalifera



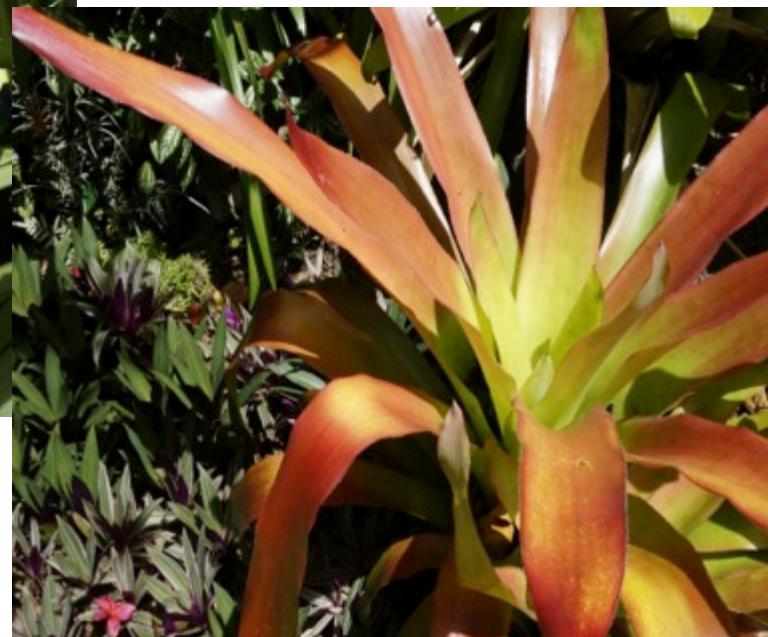
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Alocasia macrorrhiza "lutea"



Androlepis skinneri



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Crinum Sp. underplanted with Rhoeo spathacea

Aechmea blanchetiana



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Lae National Botanic Gardens –
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Calathea lutea (rear)
Brugmansia & Psuderanthemum (mid-ground)
Pandanus pygmaeus (foreground)



Cordyline terminalis cultivar (rear)
Hemigraphis colorata (mid-ground)
Neoregelia compacta (foreground)



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Zingiber olivaceum “Singapore Gold”



Heliconia wagneriana 'Turbo'

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Johannesteijsmannia altifrons



Licuala
lauterbachii

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**Schizostachyum
brachycladum**
&
Begonia cultivar

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Mass planting of Bromeliad cultivars Neoregelia, Vriesea and Alcantarea varieties



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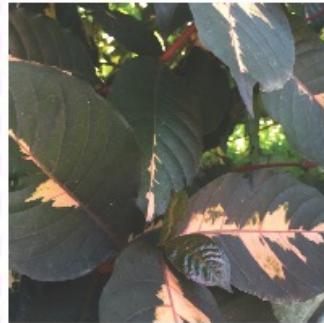
PALMS



Johannesteijsmannia altifrons
Silver Joey



Licuala lauterbachii
Fan Palm



Graptophyllum pictum
Caricature peanut

SHRUBS & GROUND COVER



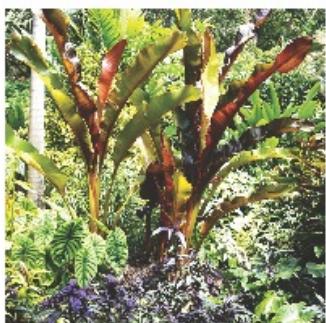
Acalypha wilkesiana
Copperleaf



Cordyline fruticosa
Good Luck Plant



Neoregelia compacta
Dwarf Bromelina



Heliconia indica 'Rabaul'
Heliconia Rabaul



Alocasia macrorrhiza 'Lutea'
Gold Elephant Ears



Alpinia zerumbet 'Variegata'
Variegated Ginger

PALMS

Botanical Name
Johannesteijsmannia altifrons
Licuala lauterbachii

Common Name
Silver Joey
Fan Palm

SHRUBS & GROUND COVER

Botanical Name
Acalypha wilkesiana
Aechmea blanchetiana
Alocasia macrorrhiza 'Lutea'
Alpinia caerulea
Alpinia oceanica
Alpinia purpurata
Alpinia zerumbet 'Variegata'
Alpinia vittata
Ananas species
Androlepis skinneri
Begonia cultivar
Calathea crotalifera
Calathea lutea
Cordyline fruticosa
Costus stenophylloides
Crinum xanthophyllum
Graptophyllum pictum
Heliconia wagneriana 'Turbo'
Hemigraphis colorata
Impatiens spp
Neoregelia compacta
Pandanus pygmaeus
Pleuranthodium tephrochlamys
Plumeria rubra
Riedelia coralina
Riedelia grandiflora
Schizostachyum brachycladum
Zingiber olivaceum 'Singapore Gold'

Common Name
Copperleaf
Aechmea Big Orange
Gold Elephant ears
Blue-berry Ginger
White Ginger
Red Ginger
Variegated Ginger
Striped Ginger
Ornamental Pineapple
Browallia
Begonia
Yellow Rattlesnake
Havana Cigar
Good Luck Plant
Banded Costus
Golden Crinum Lily
Caricature Peanut
Heliconia 'Turbo'
Purple Waffle Plant
PNG Hybrids
Dwarf Bromelina
Dwarf Pandan
Drooping Ginger
Fragipanni
Coral Ginger
Fire Ginger
Yellow Bamboo
Zingiber Singapore Go



EXISTING STEPS



INDICATIVE LAYOUT



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The Arches



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Early Arch style at Lae Botanic Gardens circa 1950?





Simple Vine Arch



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**Mansoa
alliacea**

Garlic Vine



Lae National Botanic Gardens –
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Passiflora ligularis – Highland Yellow Passionfruit



Lae National Botanic Gardens –
Four Themed Gardens October
2015

Discorea bulbifera – Tree Yam



Lae National Botanic Gardens –
Four Themed Gardens October
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2015

Cissus Curtain Pergolas – Singapore Botanic Gardens

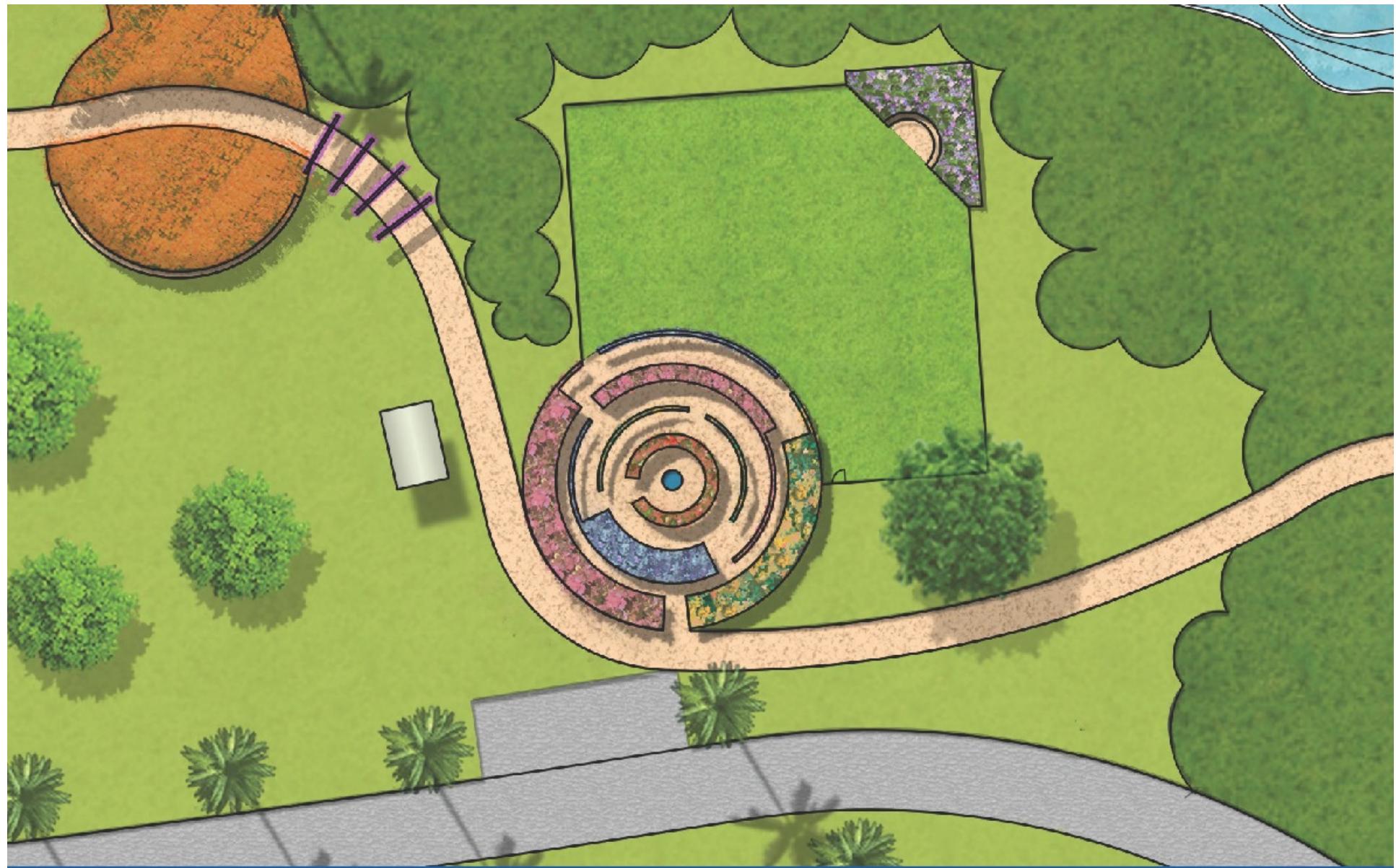


The Kid's Garden Maze



Lae National Botanic Gardens – Four Themed Gardens October 2015





LAE BOTANIC GARDENS, LAE, PNG

KID'S MAZE

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