

# 7<sup>th</sup> Seminar on Best Practices for Urban Tree Management

## The Challenges of Urban Forestry in Hong Kong

**Hong Kong is  
a densely populated and compact city**

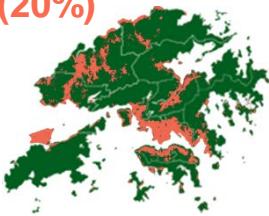


Photo: DEVB GLTMS



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# HK Statistics

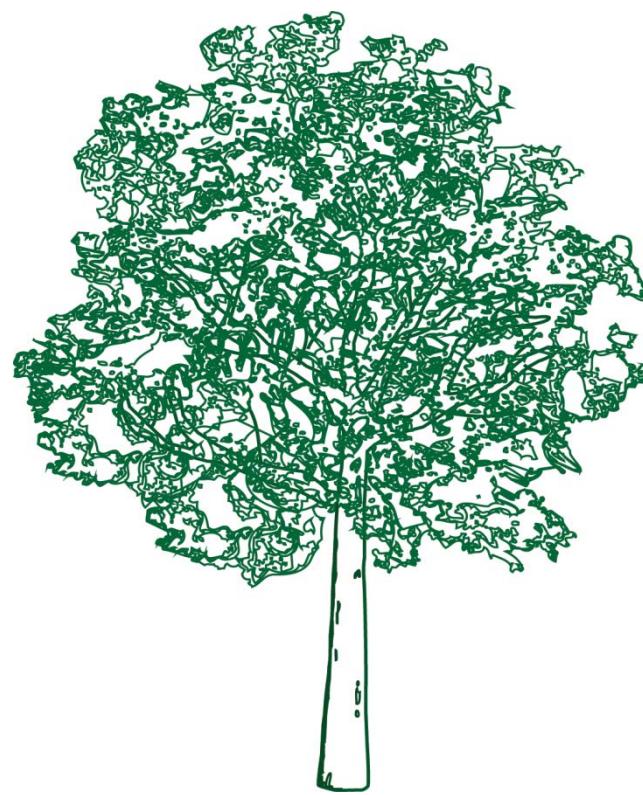
Hong Kong	Paris	New York	London
<b>Land Mass</b> 220.8 km <sup>2</sup> (1,104 km <sup>2</sup> ) (20%) 	104.4 km <sup>2</sup> 	789 km <sup>2</sup> 	1,572 km <sup>2</sup> 
<b>Population</b> 7.188 M (2013) 	2.244 M (2010) 	8.490 M (2014) 	8.630 M (2015) 
<b>No. of Urban Trees</b> 2,000,000 urban trees 	478,000 trees 	592,130 trees 	155,500 trees 

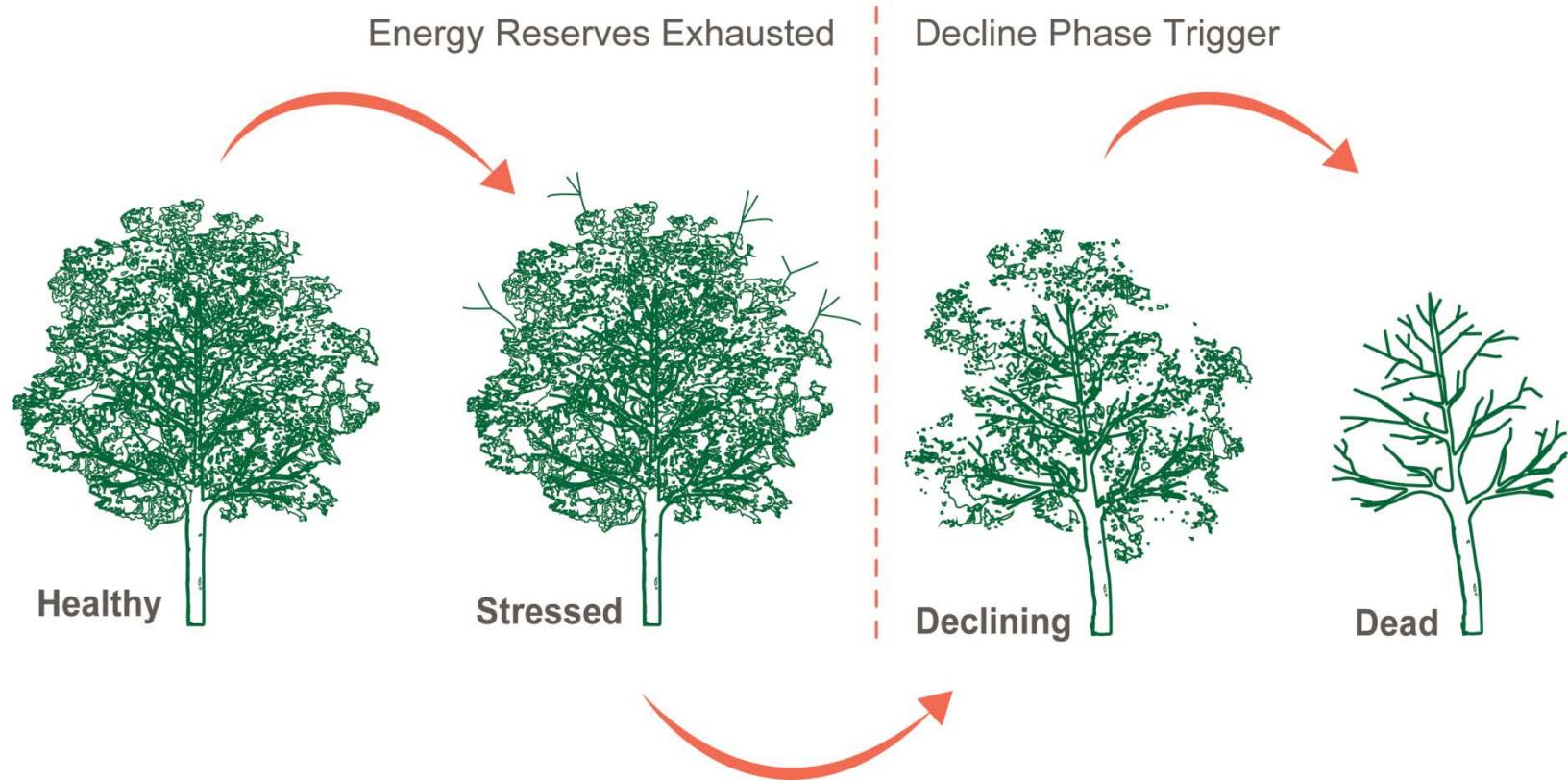


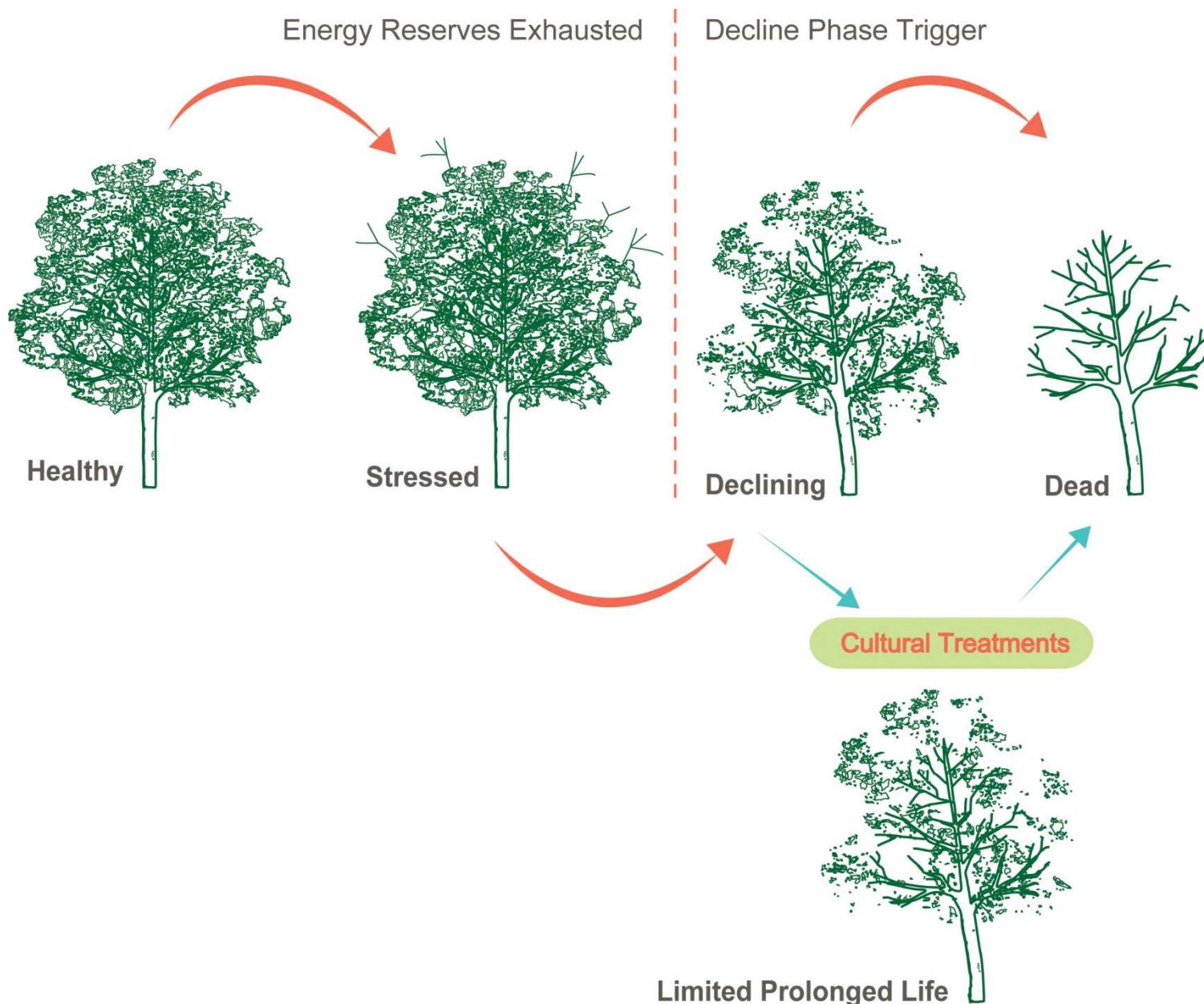
Photos: DEVB TMO



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Photos: DEVB TMO

# Different Life Stages to Senescence Life-Stage



# Before and After



Photo: DEVB

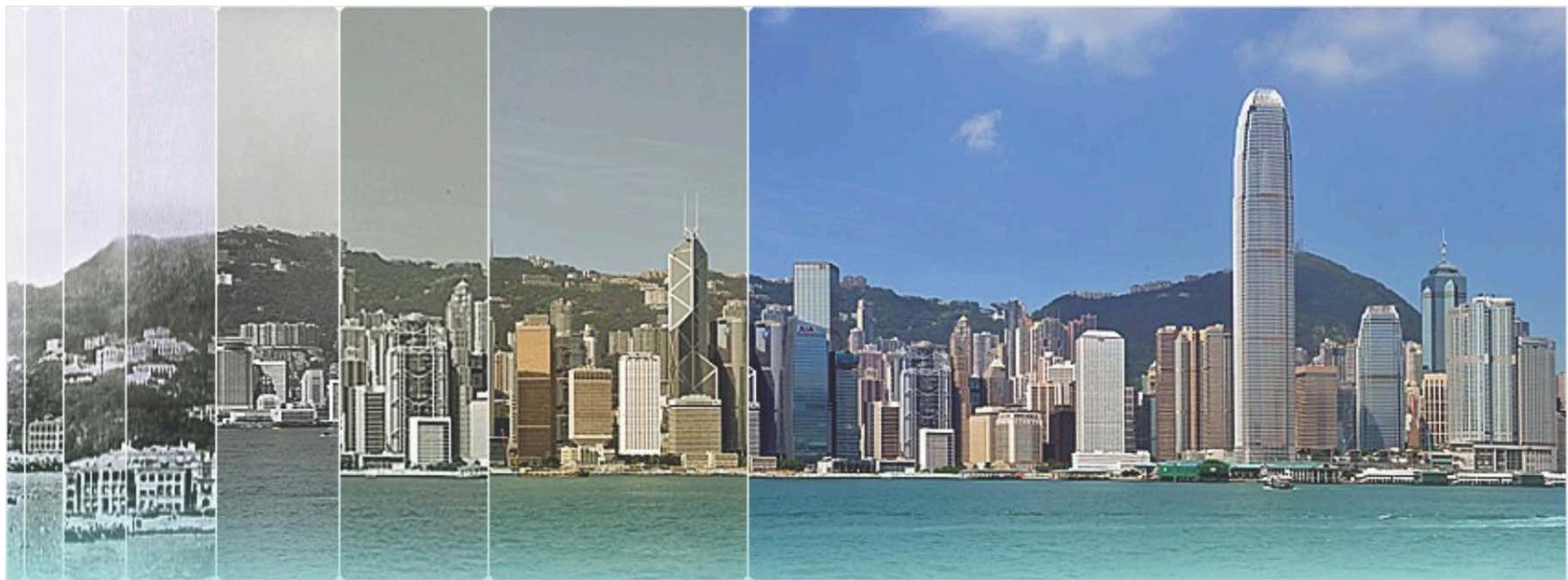


Photo: DEVB



Photo: DEVB GLTMS



Photos: DEVB

# TMO

## Risk Management

### TREE

How old am I?  
Am I situated at the right location?

### TREE CROWN

Am I too heavy?  
Am I free of pest and disease?  
Am I getting enough sunshine?  
Am I having enough space to grow?  
Am I getting enough water?  
Am I excessively spreading wind-borne pollen?  
Am I dropping fruits?

### CLEARANCE

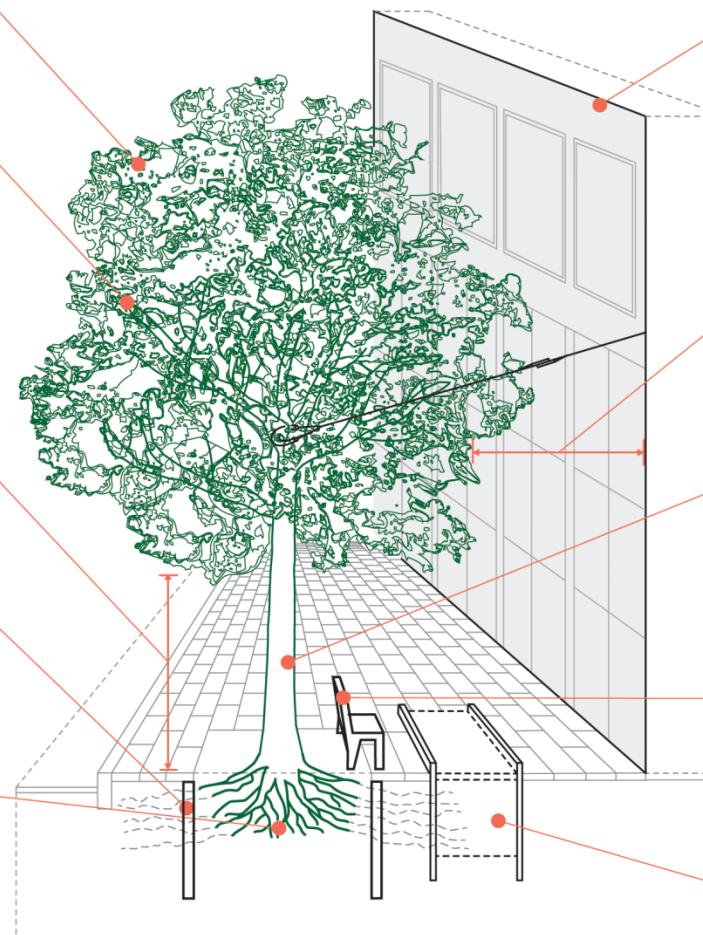
Would I impact the double-decker buses?  
Am I blocking the pedestrian?

### TREE PIT

Am I too small to accommodate the correct root ball size?  
Am I having the right soil?  
Are there any underground utilities?  
Is the paving permeable to water?

### ROOT ZONE

Am I protected?  
Am I infected?  
Do I get enough space to grow?  
Do I have enough oxygen?  
Is the soil too compact for me?



### BUILDING

Do you know my age?  
Who do I ask for permission for fixing tree guy on walls?  
Am I structurally appropriate to support the tree?  
Do my air vents impact the tree canopy?

### SPACE

Do you think I am getting too close to the building?  
Would any advertising signs obstruct my growth?

### TRUNK

Am I protected?  
Am I straight enough?  
Am I structural enough?  
Can I withstand the strong wind?  
I am not a hanger, don't hang things on me!

### URBAN FURNITURE

Am I too close to the tree?  
Am I affecting the flow of surface water?

### EXCAVATION TRENCH

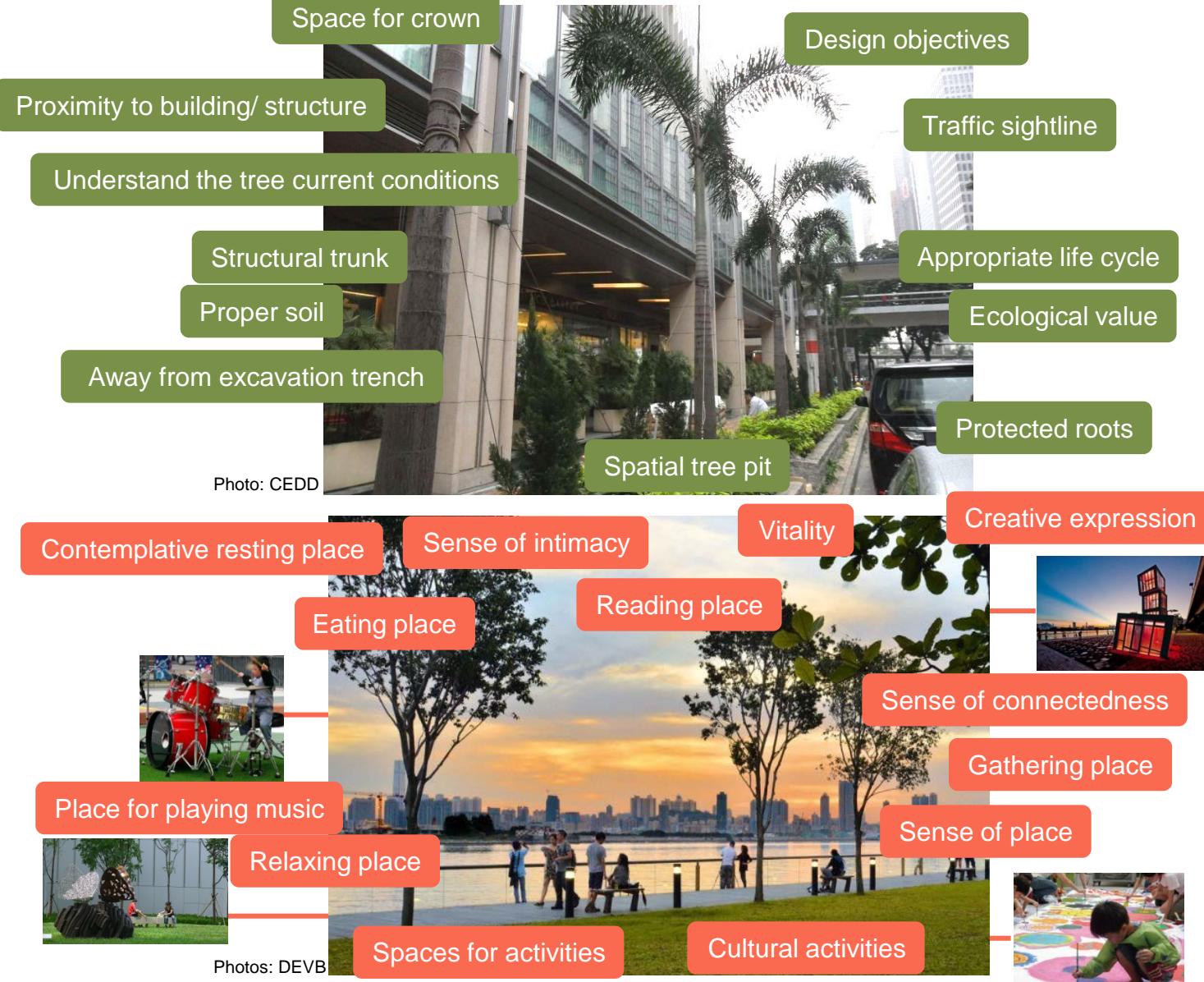
Am I impacting the roots?

Graphics not to scale



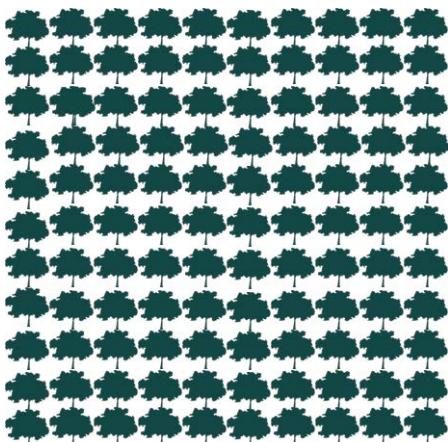
## RIGHT TREE FOR THE RIGHT PLACE

## RIGHT PLACE AND THE RIGHT TREE



# GLO

## QUANTITY



Since 2010,  
around 40 million plants  
with **~4 million trees**

## GMP



Support **CEDD** on the  
**Greening Master Plans**  
(GMPs)

## QUALITY



From  
**Quantity**  
To  
**Quality**

## HOLISTIC APPROACH



From  
**Thematic Planting of  
Single Flowering  
Trees**  
To  
**Holistic Approach to  
Thematic Landscape**

# PECOS

## MULTIPLI-CITIES OF LANDSCAPES

### Place Ecology Master Plan

Based on climate resilience and adaptation

Place ecology as primary driver to sustainable development

Landscapes based on a thematic approach to constructed ecology

Green infrastructure as a holistic approach across all urban landscape typologies

#### Transport

##### Hierarchy

Street Network

##### Roadways

Median Strips

Median Refuges | Traffic Islands

##### Roadside

Roadside Landscapes

Edge Conditions

Noise Walls

##### Streetscape

Features

Soft Landscaping

Hard Landscaping

Urban Furniture

Waste Furniture

Shelters

##### Elevated Accessways

Road Bridges

Noise Walls

Skywalks

##### Open-air Car Parks

#### Green Infrastructure

##### Hierarchy

Green Infrastructure Network

##### Treatment Typologies

Wetlands + Treatment Beds

Bio-swales | Bio-filters

Aeration Systems

##### Ecologies

##### Roadside

Urban + Main Streets

Avenues + Promenades

Market Streets

Laneways + Residual Spaces

##### Open Spaces

District

Precinct

Neighbourhood | Local

Private

##### Inter-Tidal + Floodways

##### EEQ + IEQ

Urban Heat Mass

Health + Wellbeing

Passive Thermal Management

##### Carbon Sequestration

Compensated Trees

#### Public+Private Open Space

##### Leisure | Culture | Interpretation

Municipal + Civic

Housing

Education

Sport + Event Sites

Heritage + Conservation

Emergency Accessways

Landmarks

Health + Wellbeing

Tourism

Commercial + Mixed-Use

Places of Worship

Places of Remembrance

Sites of Cultural Significance

Cemeteries

Security

Unallocated + Unleased (UUGL)

Landfill

#### Specialist Landscapes

##### Tactical Urbanism

Incubators

Pop-ups

Flash Mob-iles

Guerilla Gardening

Community Colours

Re-coding

##### Main Streets

Markets and Market Streets

Avenues + Promenades

Laneways + Residual Spaces

Waterfronts

Flood Ameleoration

Edge Conditions

##### Play Scapes

Continuous Learning

Nature Play

Picnic Spaces

Skate Parks + Youth Spaces

Remote Sites

Outdoor Recreation

Environmental Art

Slopes + Embankments



# Thank You



Photo: DEVB TMO