



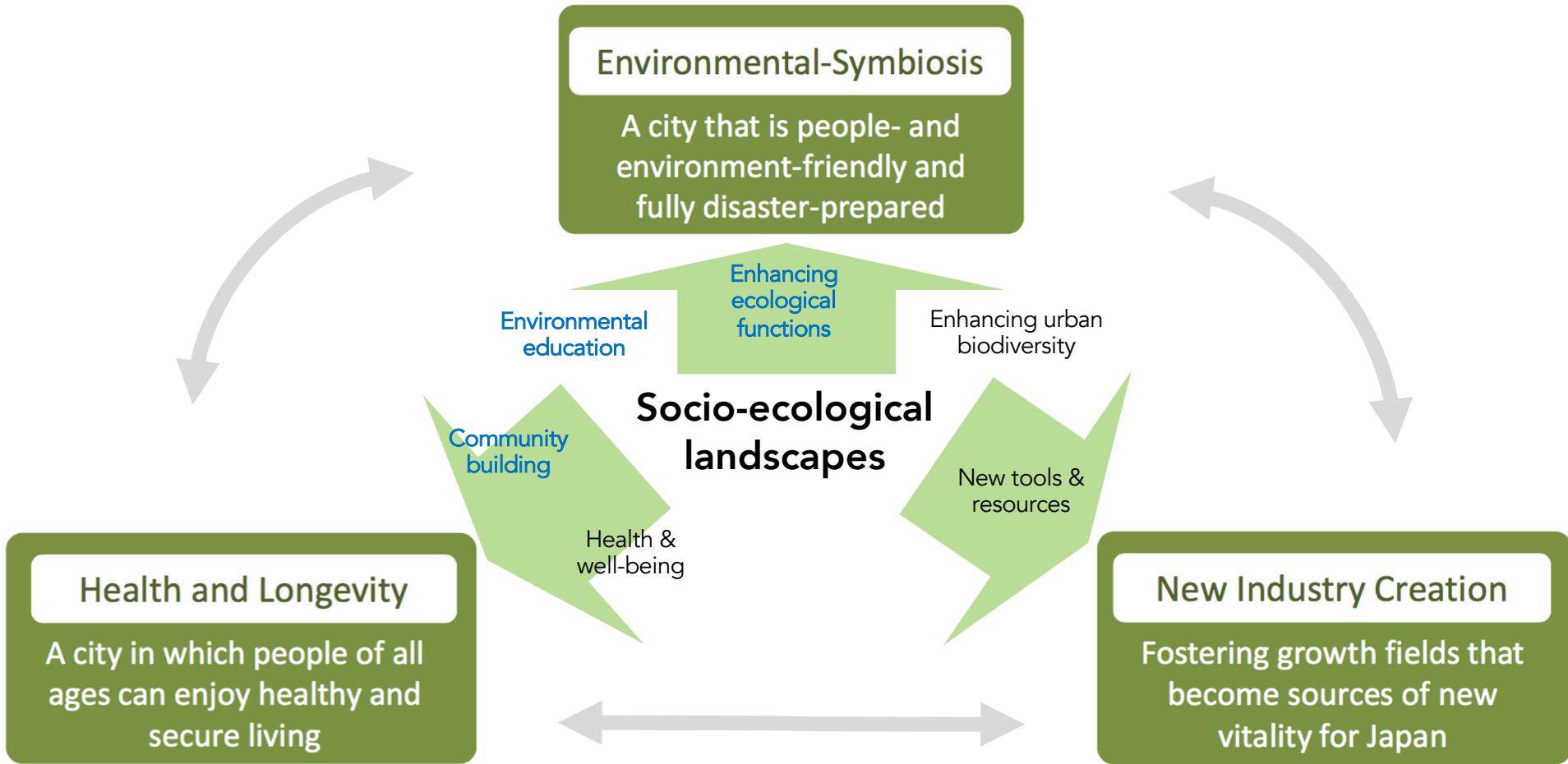
The LIVING Room

Refresh. Re-charge.

@LaLaport Plaza

Song Xiao Ping, Hiroshi Ichikawa, Ye Jing, Liu Yuehua, Pang Yu Rong

A step toward the Kashiwanoha Smart City Vision – Common grounds



Similar spaces in the vicinity



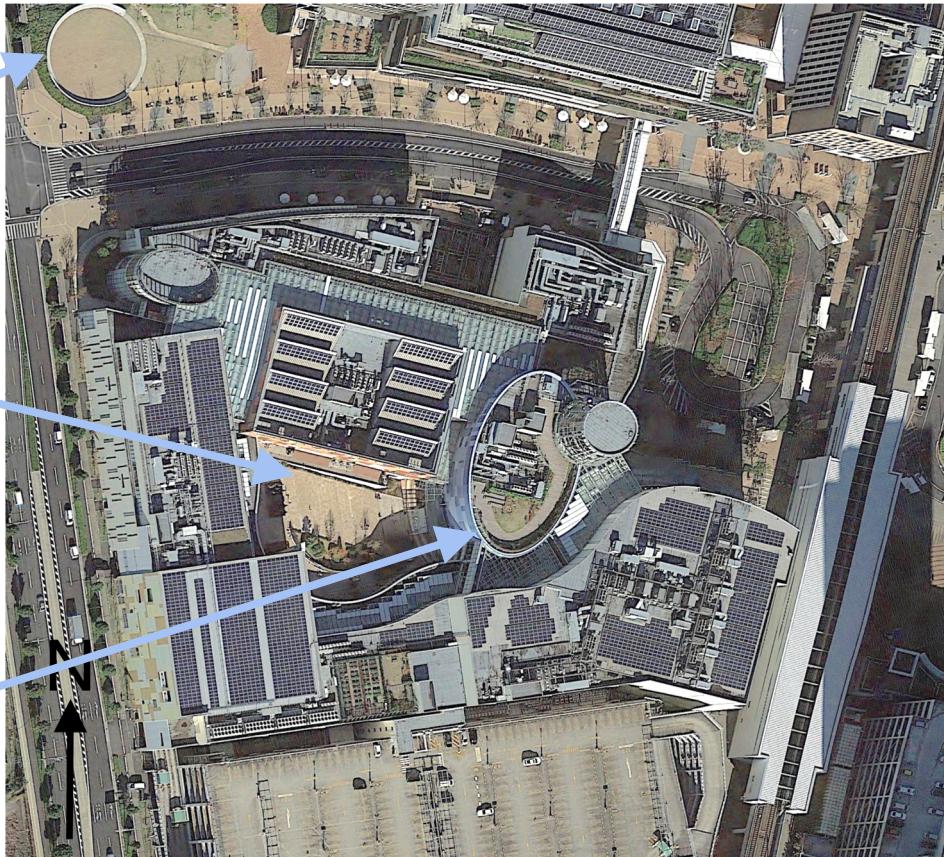
Outdoor



LaLaport Plaza (our site)



Semi-indoor



Indoor

Why this site?

- High visibility & human traffic (especially families with children)
- Relatively large space that can support multiple uses/functions
- Opportunities to optimise ecological function and the seasonality of human use (hourly, weekly, annually)



Site analysis – 'Social' (accessibility)



Entrance Points – L2



Entrance Points – L3

Site analysis – ‘Blue’ & ‘Green’

- Water drains toward shrubs along northern fringe
- Most trees provide summer shade along the southern fringe
 - Tree death and conifer dieback observed – Possible root dryness, ‘winter burn’ due to sun- & wind-induced water loss



Key Design Opportunities

Environmental-Symbiosis

A city that is people- and environment-friendly and fully disaster-prepared

Environmental education

Enhancing ecological functions

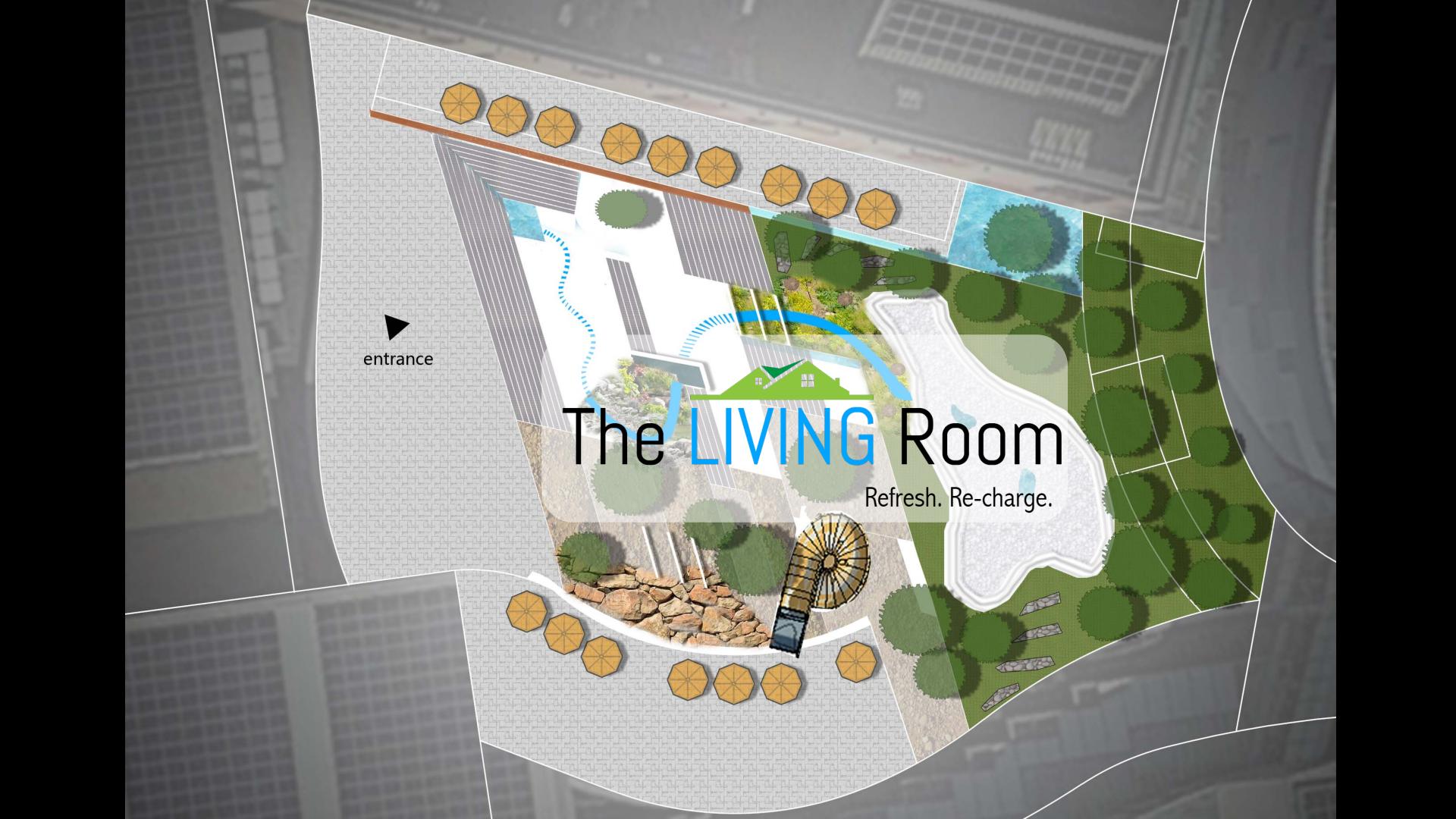
Socio-ecological landscapes

Community building

- How can we enhance biophysical function at the site?
- How can we build community and promote environmental education amongst existing users?

Health and Longevity

A city in which people of all ages can enjoy healthy and secure living



entrance

The LIVING Room

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Key Strategies

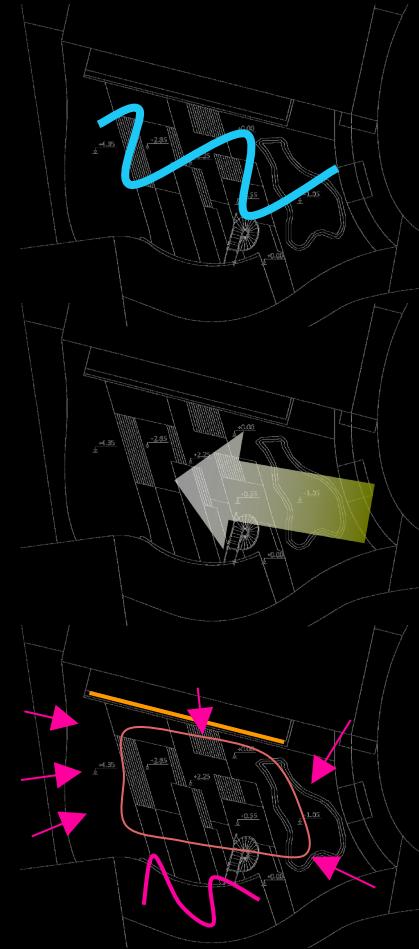
1. Enhance site versatility and *ecological performance*

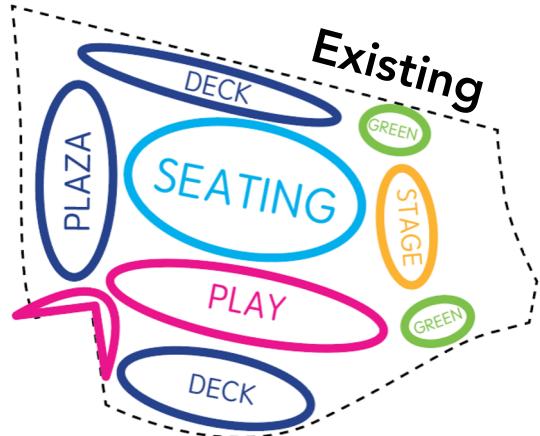
Improved hydrology (water regulation & quality)

Leveraging on seasonality – Solar shading & wind block, choice of plants (energy conservation), site usage

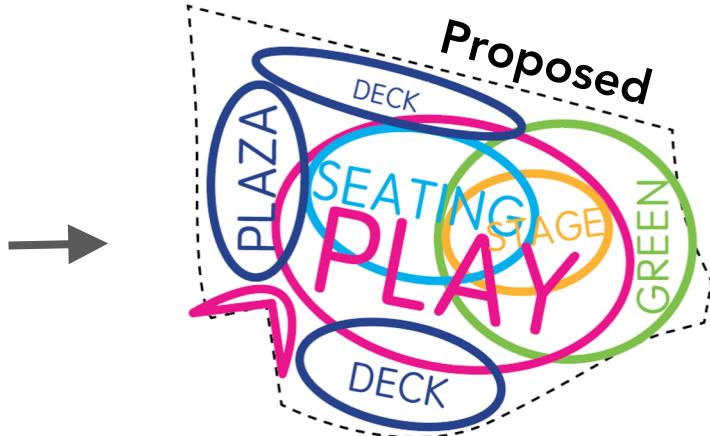
2. Promote the use of the site as a *communal and educational space*

Increased accessibility, community activities





Zoned Functions



Overlapping Functions



DECK

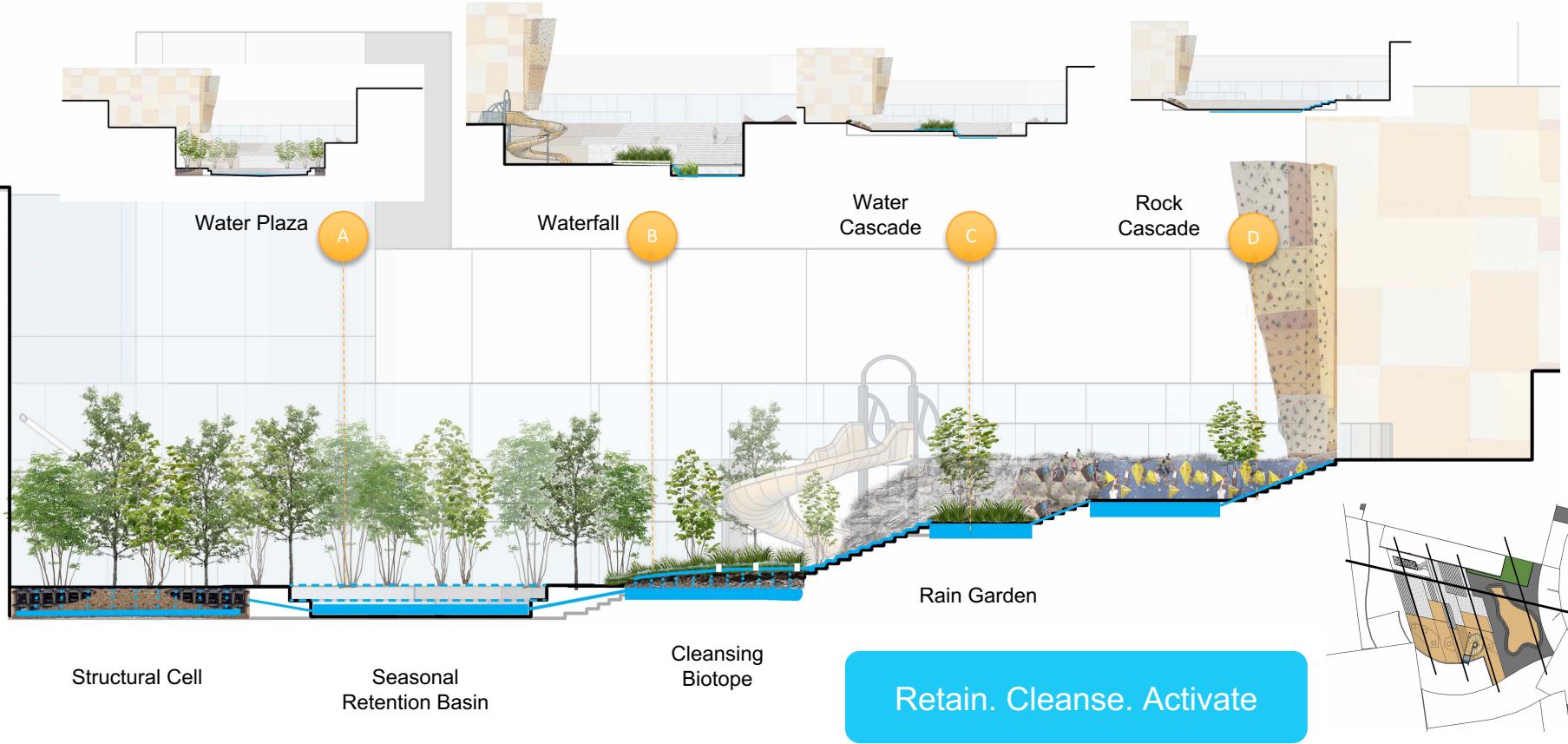
SEATING

PLAY

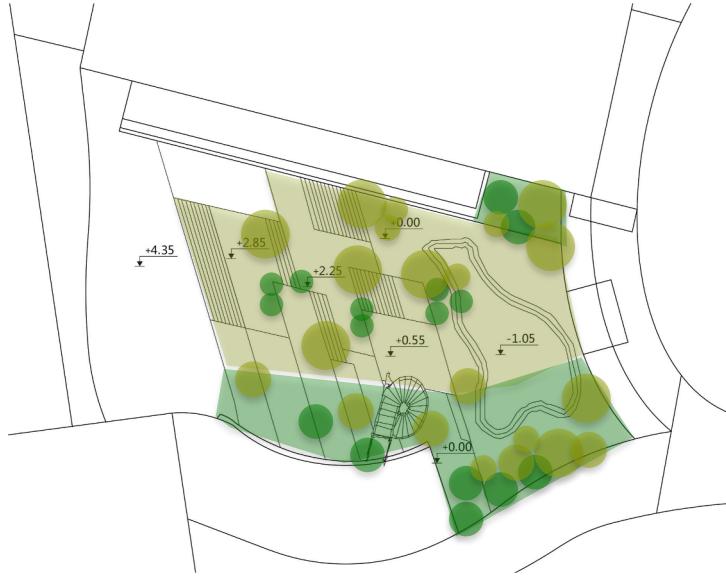
STAGE

GREEN

1. Enhance site versatility and ecological performance – Hydrology



1. Enhance site versatility and ecological performance – Seasonality

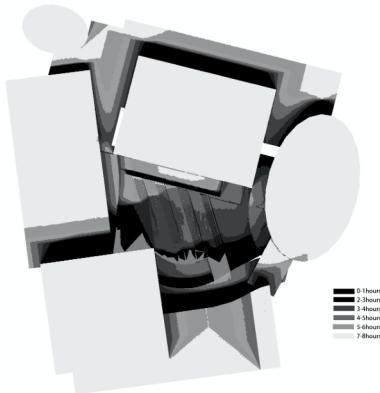


Northern Fringe:

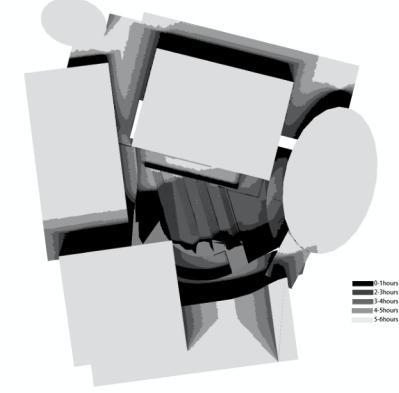
- Higher cumulative radiation ideal for sun-plants
- Shade plants can conserve building air conditioning (ecological function)

Southern Fringe:

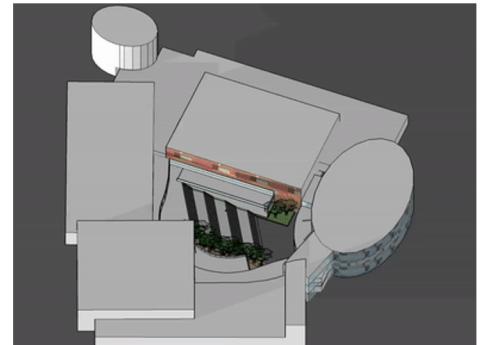
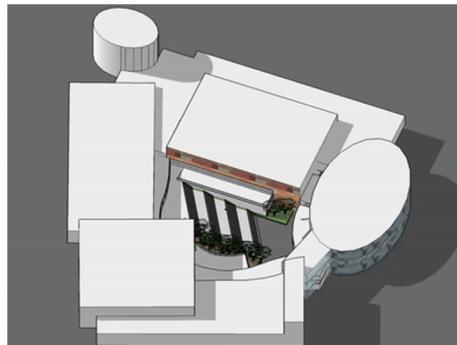
- Shade suitable for summer activities



Summer solstice Jun 21
Shortest day, largest altitude angle



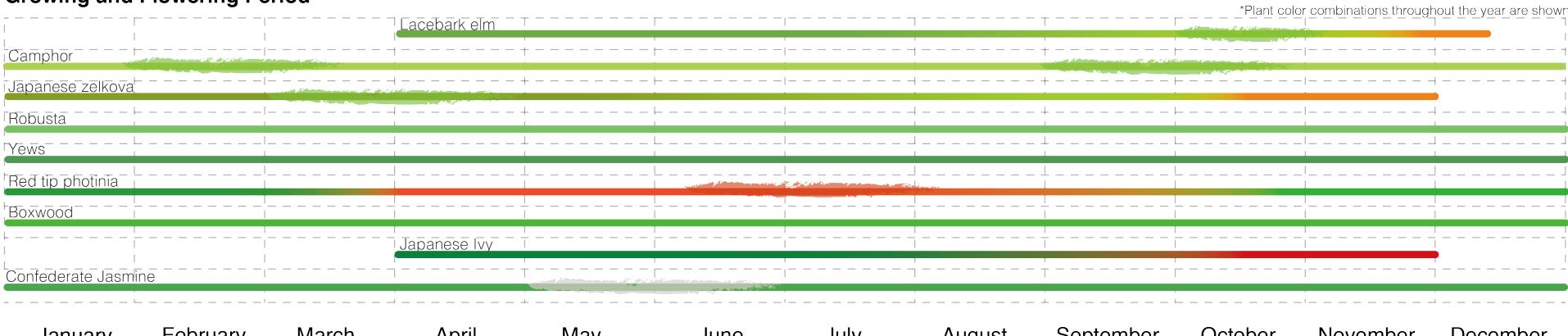
Winter solstice Dec 22
Longest day, smallest altitude angle



1. Enhance site versatility and ecological performance – Seasonality

Lacebark elm <i>Ulmus parvifolia</i>	Camphor <i>Cinnamomum camphora</i>	Japanese zelkova <i>Zelkova serrata</i>	Robusta <i>Fargesia robusta 'Campbell'</i>	Yews <i>Taxus x media</i>	Red tip photinia <i>Photinia fraseri</i>	Boxwood <i>Buxus</i>	Japanese Ivy <i>Parthenocissus tricuspidata "Veitchii"</i>	Confederate Jasmine <i>Trachelospermum jasminoides</i>
 Full sun Hardy, tolerant of urban conditions	 Full-sun to partial shade Shade tree/windbreak Attracts bees, butterflies and birds	 Full-sun to partial shade Tolerant of heat, little water, nutrient poor soils, and various pH	 Full sun to partial shade (Shade tolerant) More upright and robust Tolerant of urban conditions	 Full-sun to partial shade Can grow up to 6–10 metres Drought tolerant	 Full-sun to partial shade Fruits attractive to birds	 Partial shade Shallow root system, low maintenance Tolerant of urban conditions	 Full-sun to partial shade Rapid growth, self-clinging (does not require growth support)	 Full-sun to partial shade Require climbing structure

Growing and Flowering Period



January February March April May June July August September October November December

1. Enhance site versatility and ecological performance – Seasonality



**RESEARCH
& INNOVATE**

KOIL showcase spaces
User testing, publicity



SENSE OF IDENTITY

Community Events
& Festivities



EDUCATE

Public education
& Outdoor Learning

2. Promote the use of the site as a communal and educational space



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Potential replicability of The LIVING Room

Other spaces that have...

- Similar user-demographics – Other family-centric malls, common spaces
- Similar functions – Performance plazas, lounge areas



The Ark Hills, Tokyo



Tokyo Plaza, Odaiba



Yoyogi National Gymnasium

Summary

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Environmental education  Enhancing ecological functions

The LIVING Room

Community building 

Health and Longevity

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1. Enhance site versatility and **ecological performance**
 - Improved hydrology (water regulation & quality)
 - Leveraging on seasonality – Solar shading & wind block, choice of plants (energy conservation), site usage
2. Promote the use of the site as a **communal and educational space**
 - Increased accessibility, community activities

Thank you

