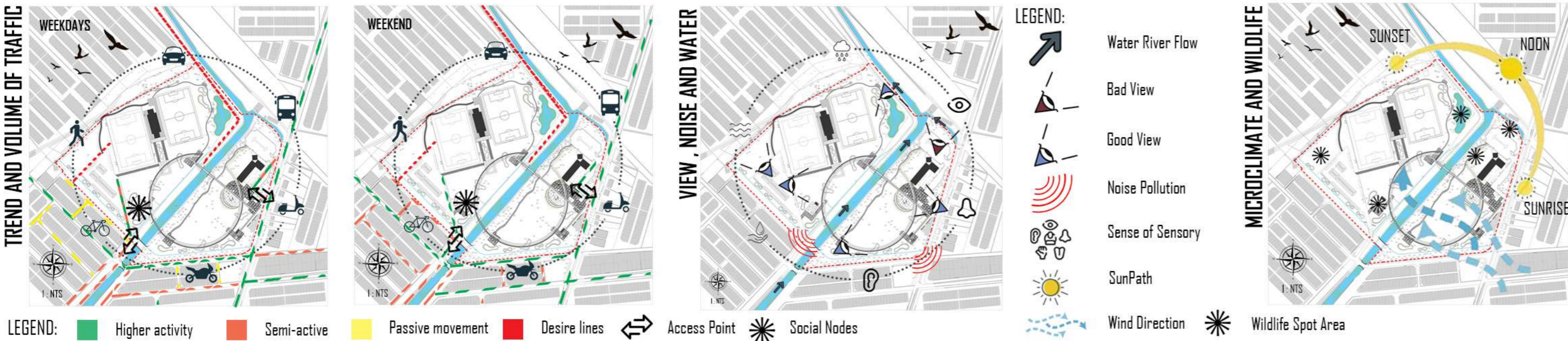
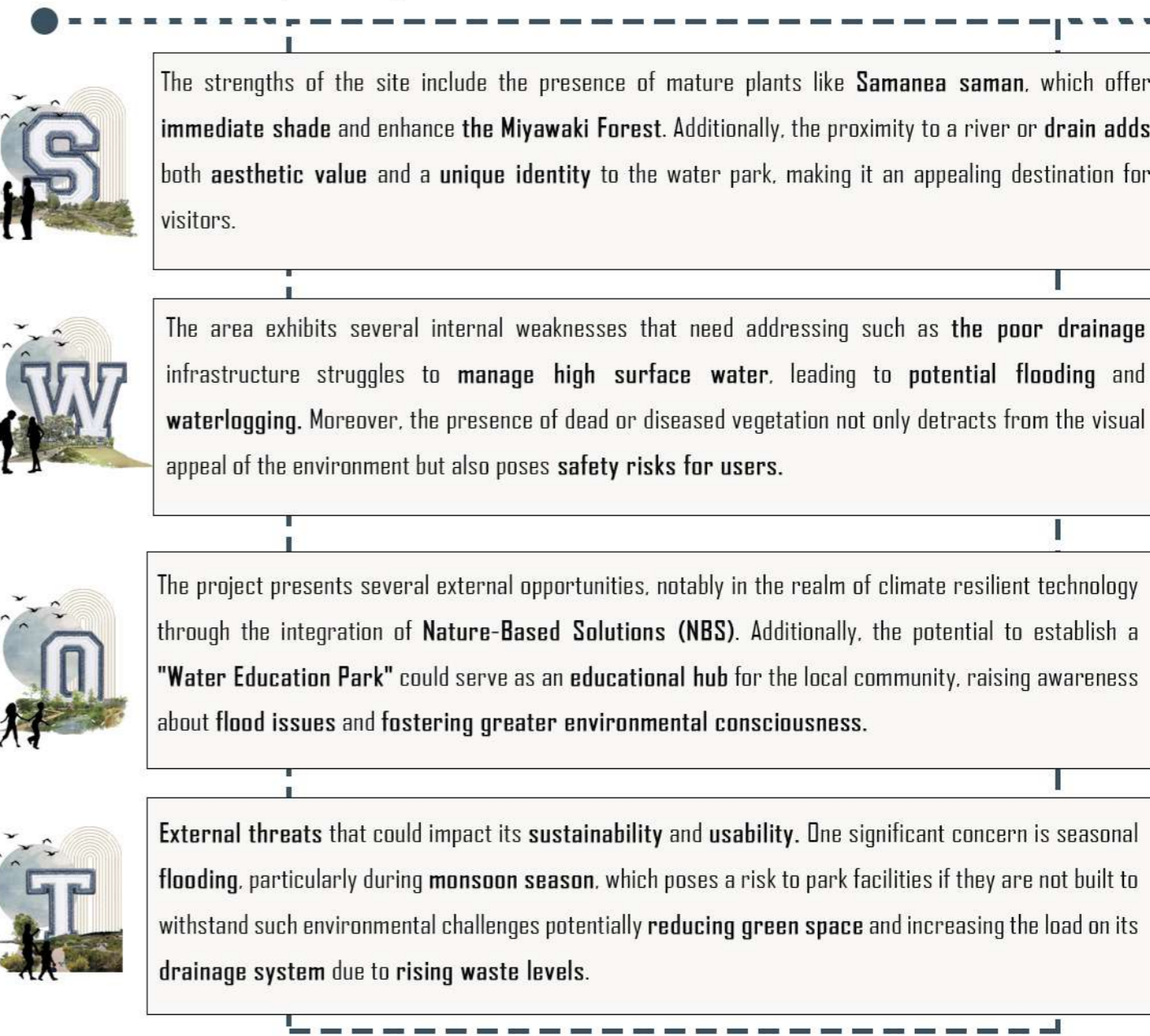


1.1 SUMMARY OF SITE INVENTORY AND ANALYSIS



1.2 SYNTHESIS (SWOT)



1.3 AIM

The idea of Blue-Green Cooling & Drainage Network (BGCDN) is to transform into a "RESILIENT COMMUNITY PARK" through creating a sustainable city focusing on nature-based solutions (NBS), adaptive stormwater reuse to reuse rainwater for landscape irrigation, bioengineering to use plant-based engineering techniques to stabilise the system to create an adaptive, educational and safe urban landscape for the community.

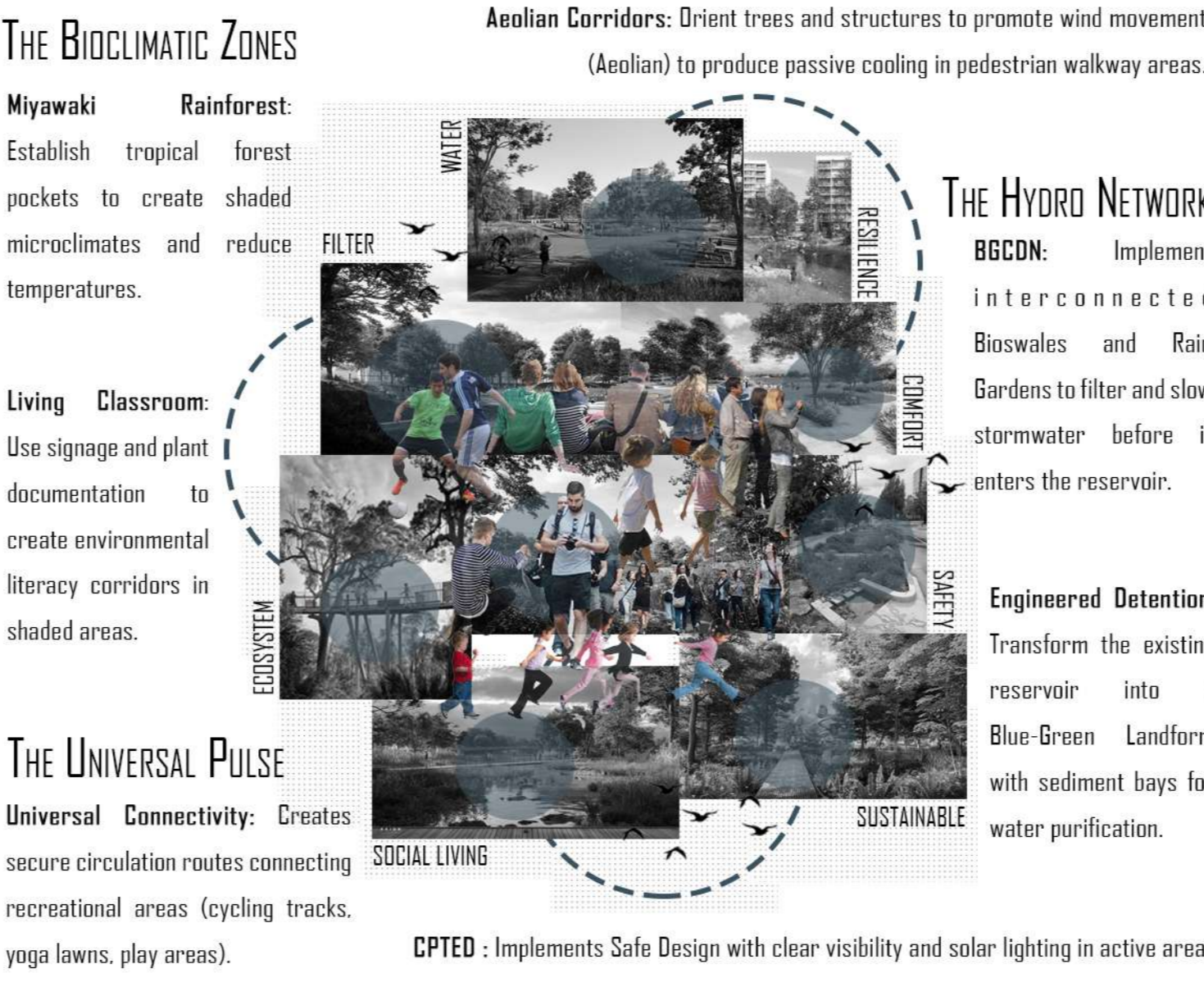
BGCDN + NBS = RESILIENT COMMUNITY PARK

1.4 OBJECTIVE

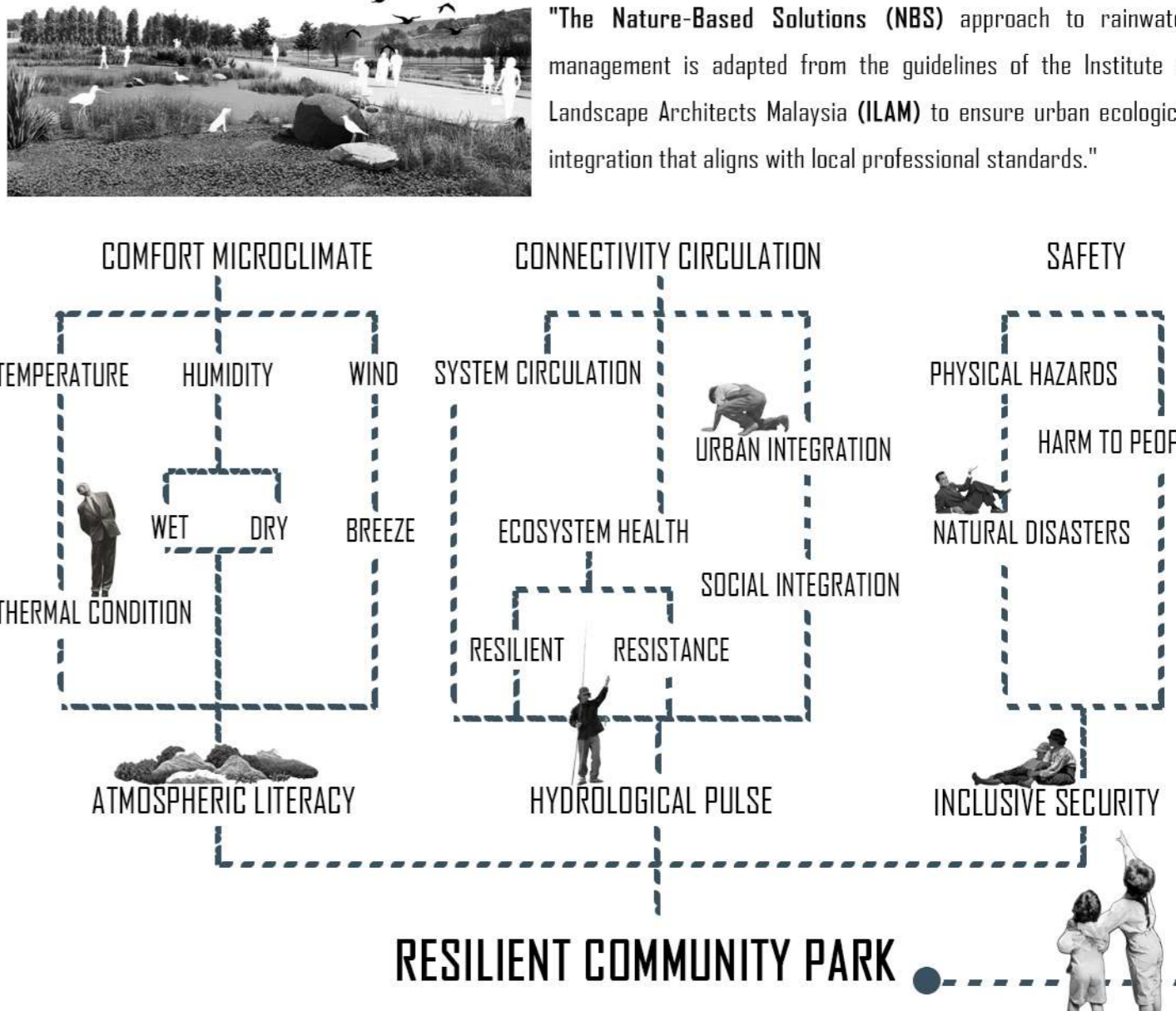
- 1. HYDROLOGICAL**
To implement integrated water cycle management through a Blue-Green Cooling & Drainage Network (BGCDN) to achieve 100% on-site rainfall through the use of bioswales, rain gardens and engineered reservoirs to reduce the risk of flash floods.
- 2. BIOCLIMATIC**
To restoring local biodiversity and mitigating the "urban heat island" effect through Miyawaki forest methods and native rainforest plantings to create a shaded microclimate and serve as a "living classroom" for environmental literacy.
- 3. SOCIAL AND SAFETY**
To design inclusive and safe public spaces through the application of the principles of CPTED (Preventive Design for Safe Environments) and Universal Design to ensure safe circulation routes and multi-generational recreational spaces for all ages and abilities.



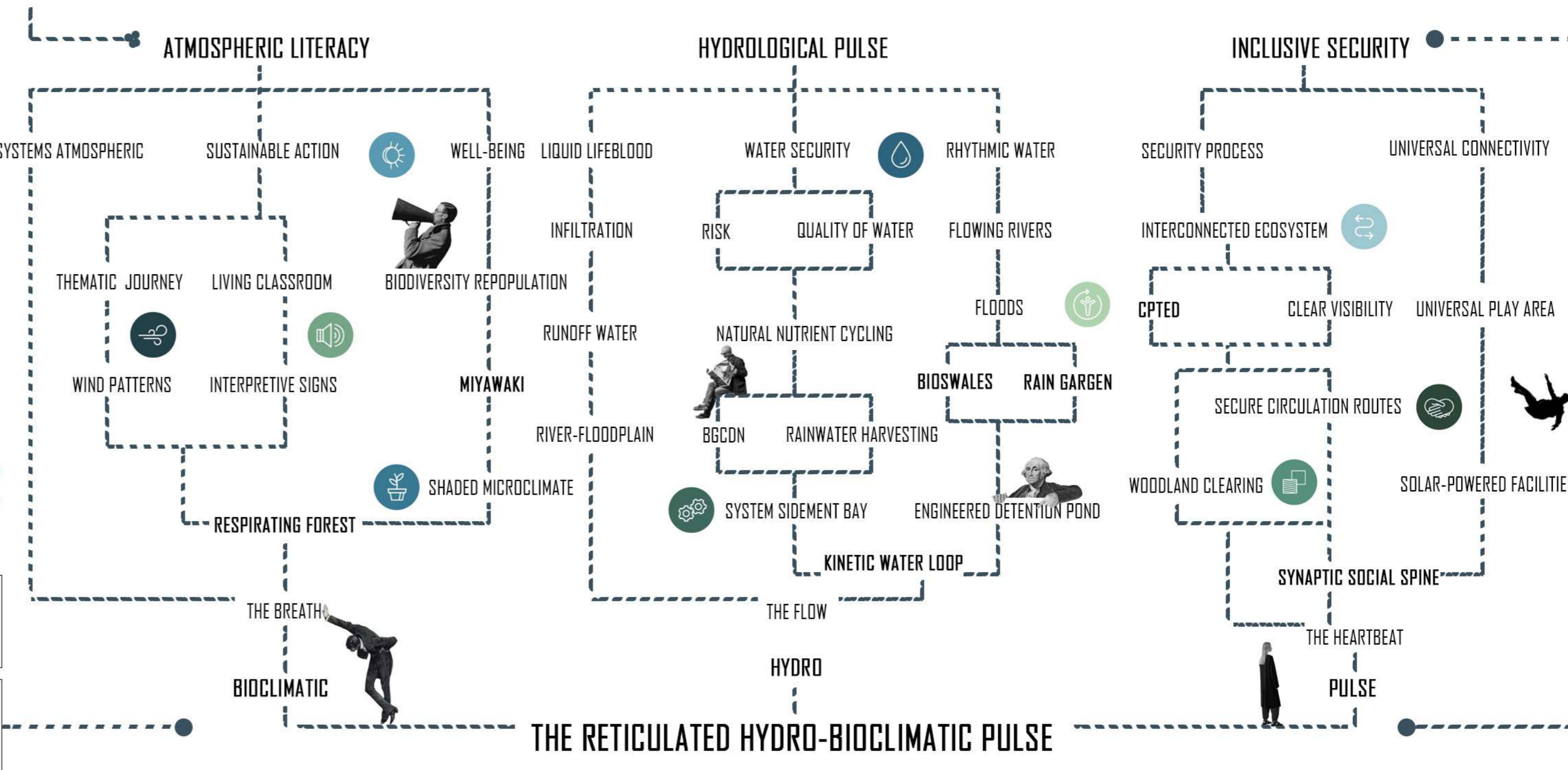
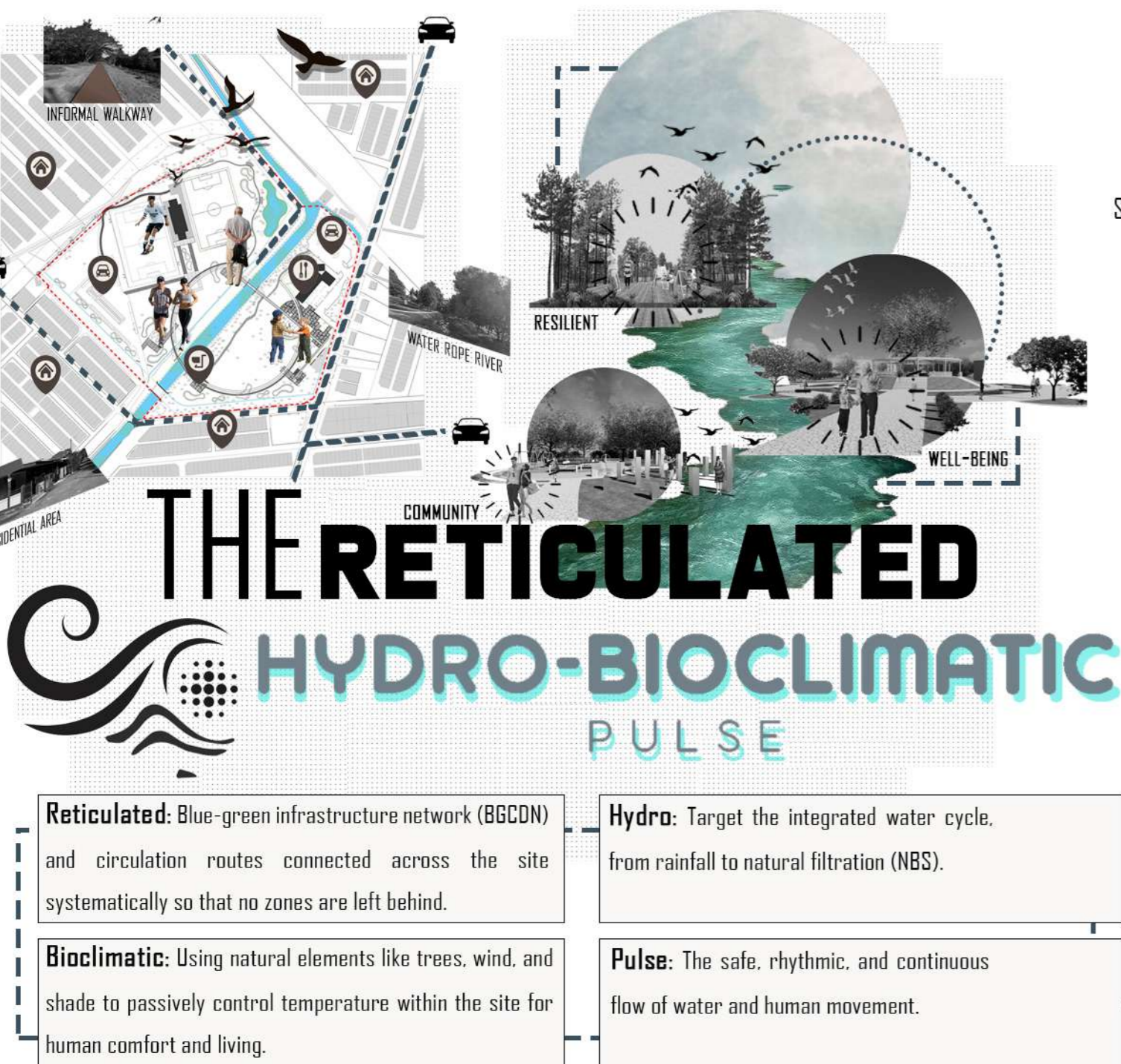
1.5 DESIGN STRATEGY



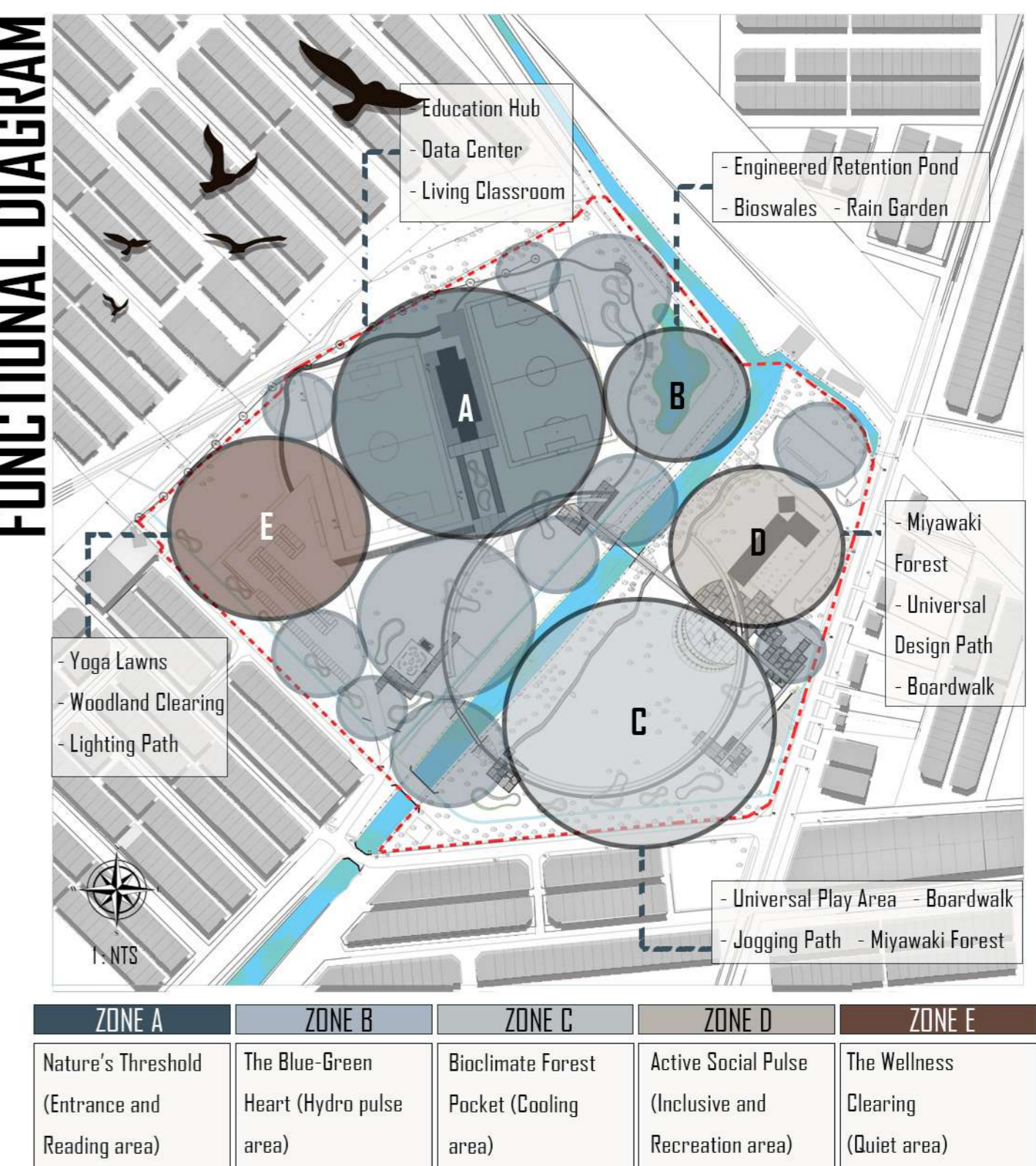
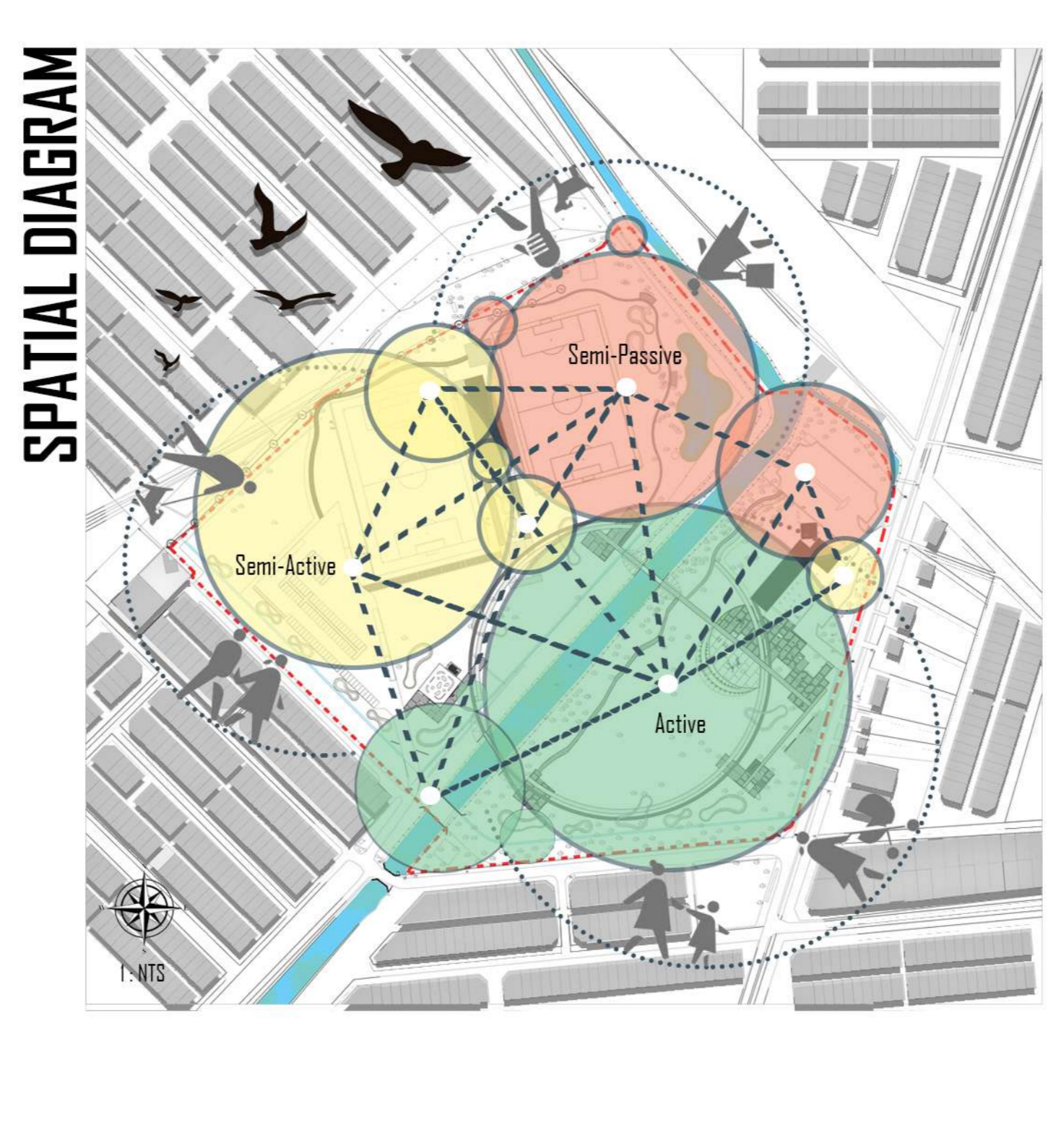
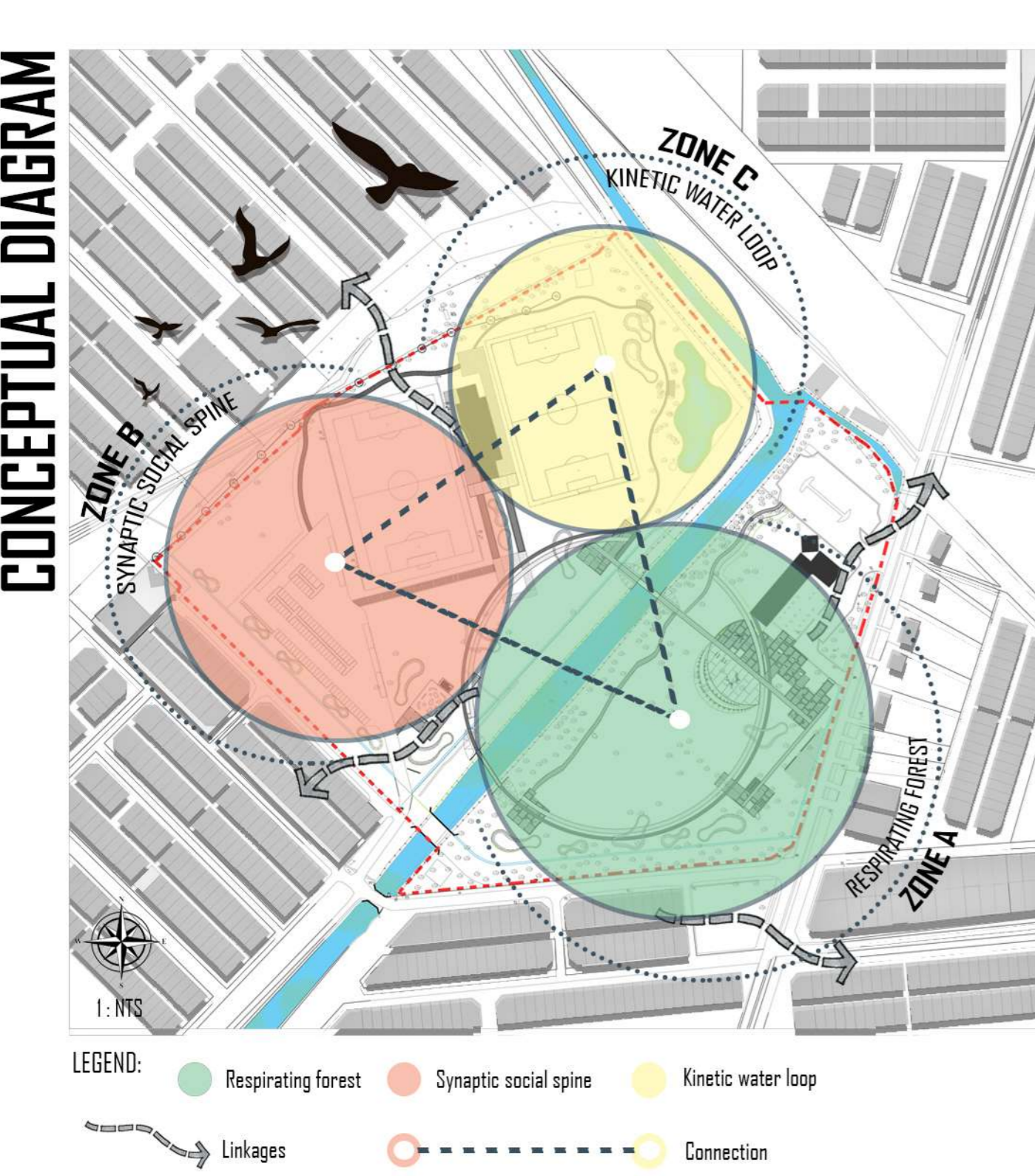
1.6 THEME



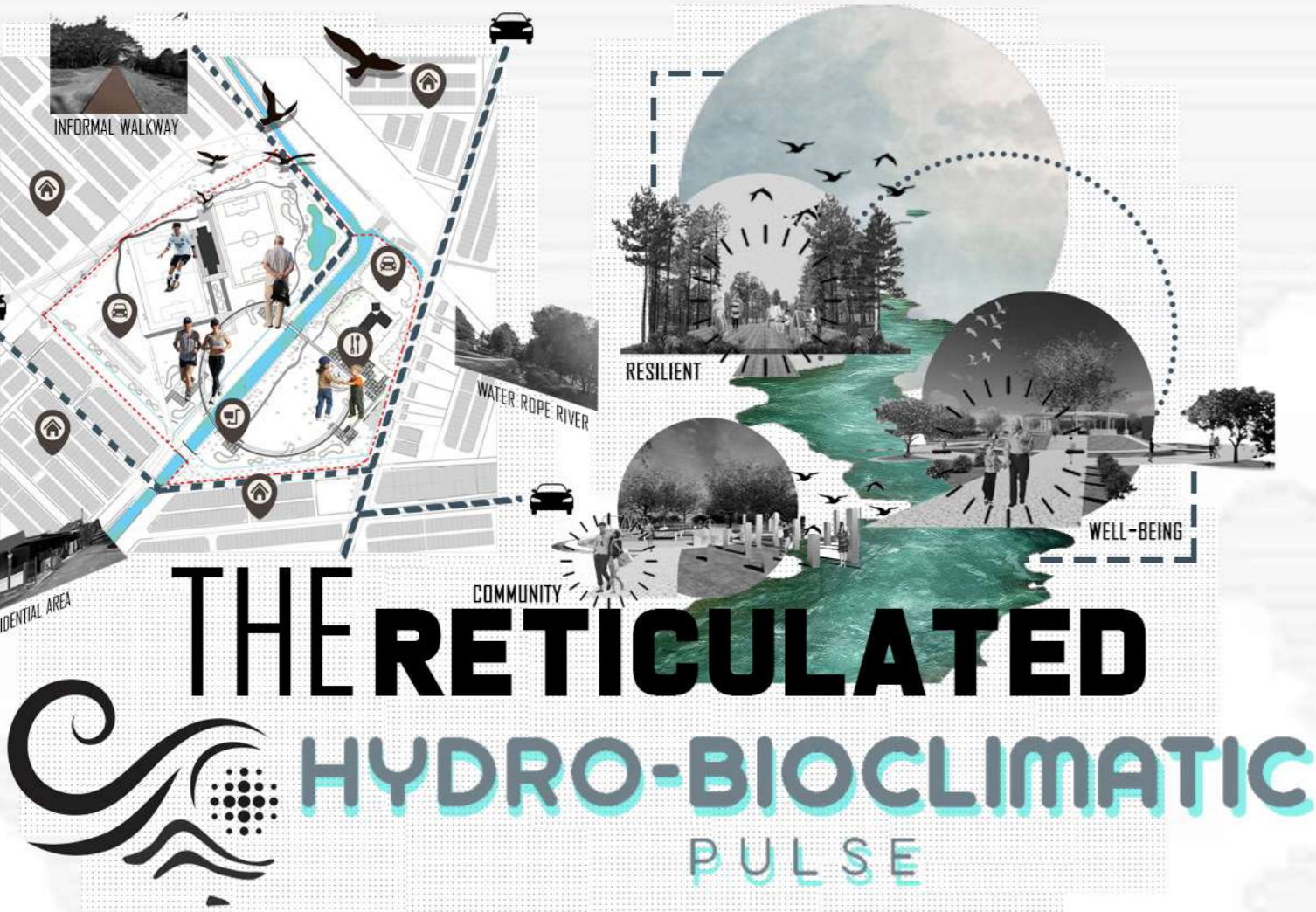
1.7 CONCEPT



1.8 BUBBLE DIAGRAM



2.1 MASTERPLAN



Reticulated: Blue-green infrastructure network (BGCDN) and circulation routes connected across the site systematically so that no zones are left behind.

Bioclimatic: Using natural elements like trees, wind, and shade to passively control temperature within the site for human comfort and living.

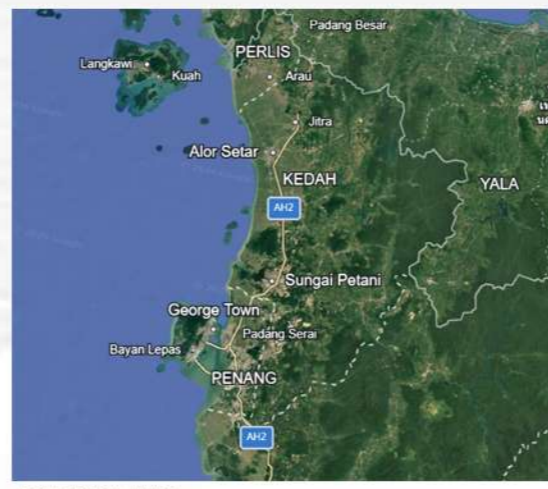


Hydro: Target the integrated water cycle, from rainfall to natural filtration (NBS).

Pulse: The safe, rhythmic, and continuous flow of water and human movement.

BGCDN + NBS = RESILIENT COMMUNITY PARK

The idea of Blue-Green Cooling & Drainage Network (BGCDN) is to transform into a "RESILIENT COMMUNITY PARK" through creating a sustainable city focusing on nature-based solutions (NBS), adaptive stormwater reuse to reuse rainwater for landscape irrigation, bioengineering to use plant-based engineering techniques to stabilise the system to create an adaptive, educational and safe urban landscape for the community.



KEY PLAN

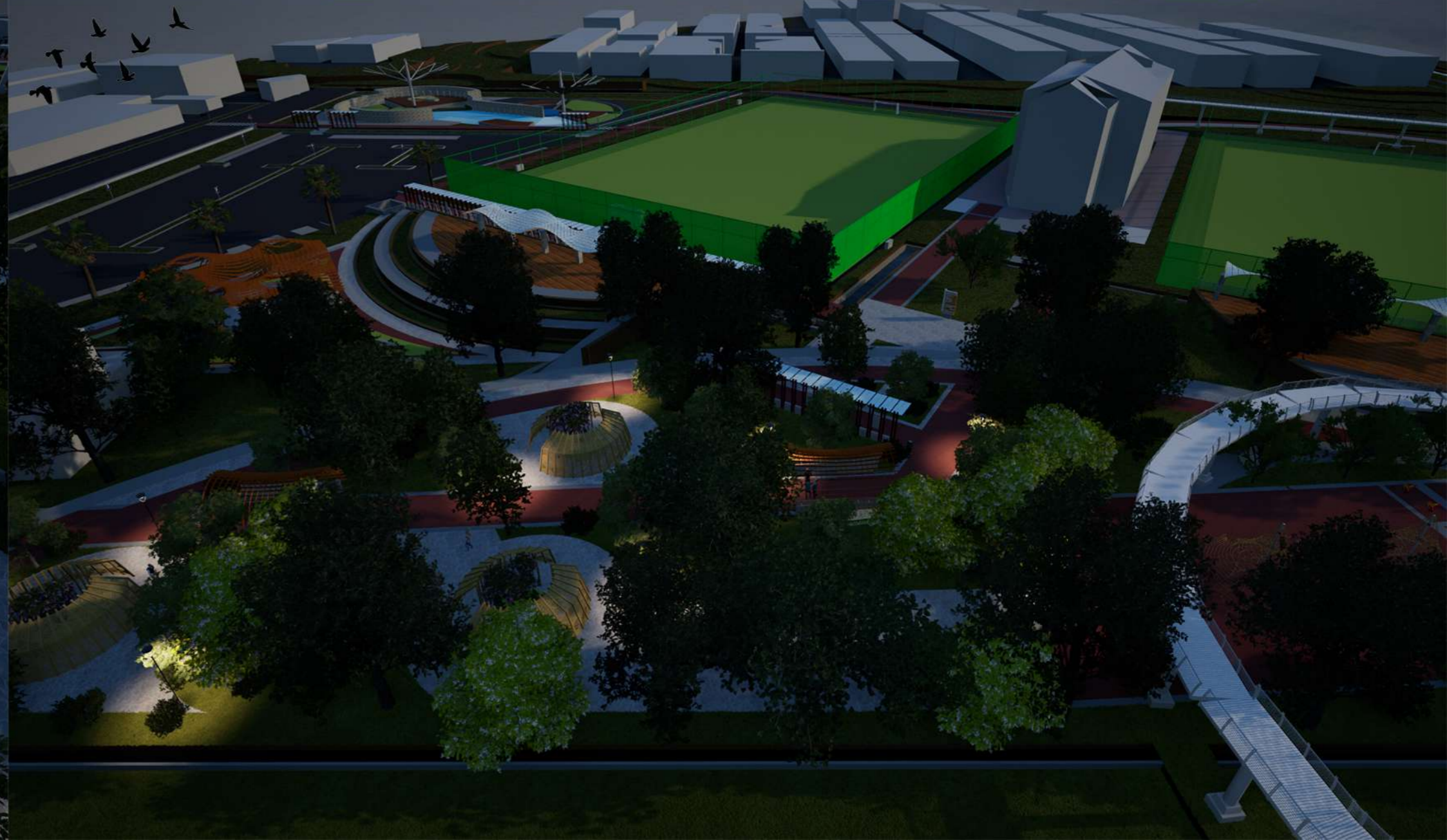


LOCATION PLAN



COMMUNITY HARVEST GROVE 03

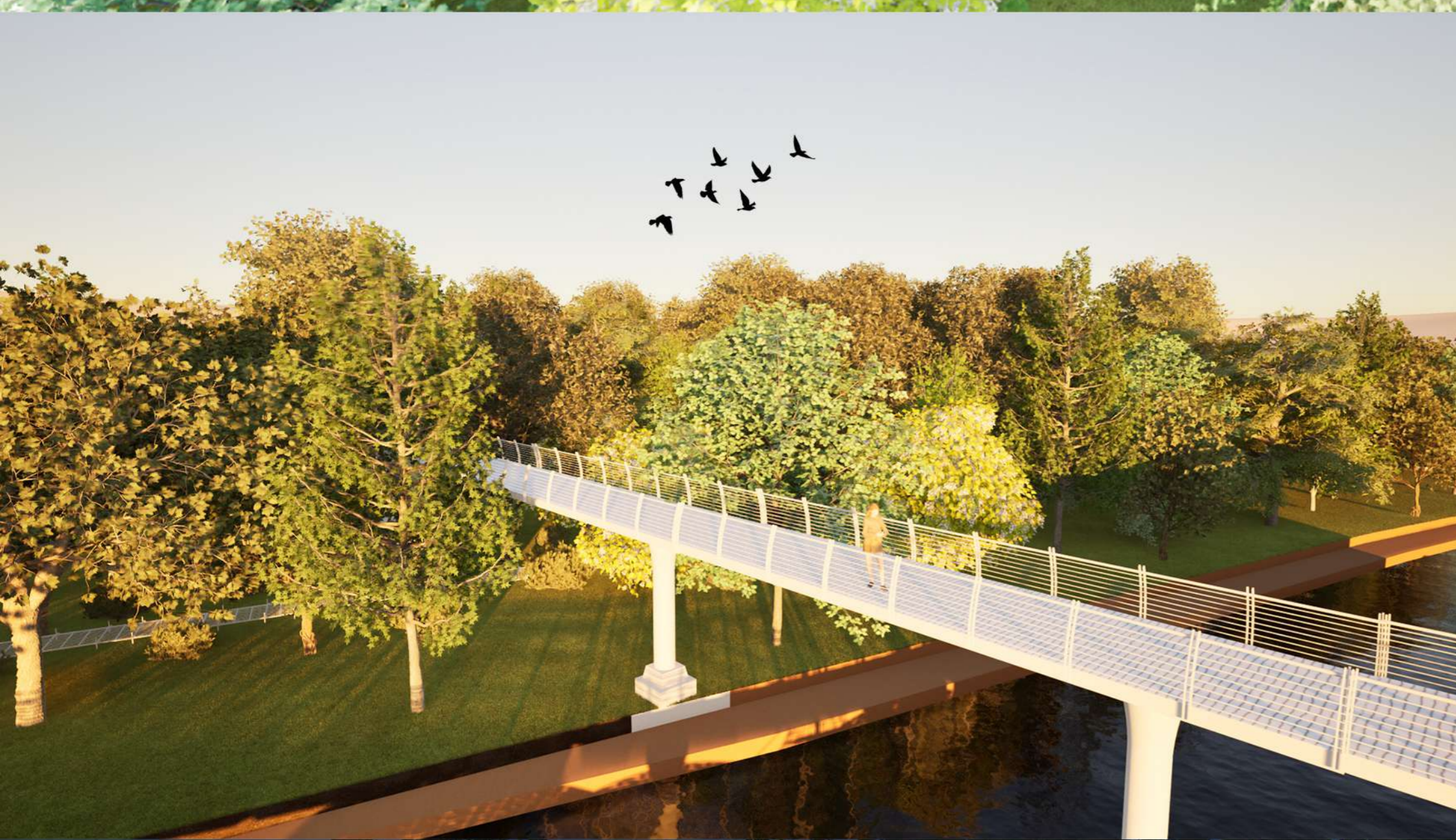
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ECOLOGICAL PULSE CORRIDOR 04

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HYDRO DISCOVERY GARDEN 07

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