

International Proposal Solicitation of Green Ring Concept Planning in Jiading New Town

Shanghai Municipality, China



In Terms of Analysis and Planning



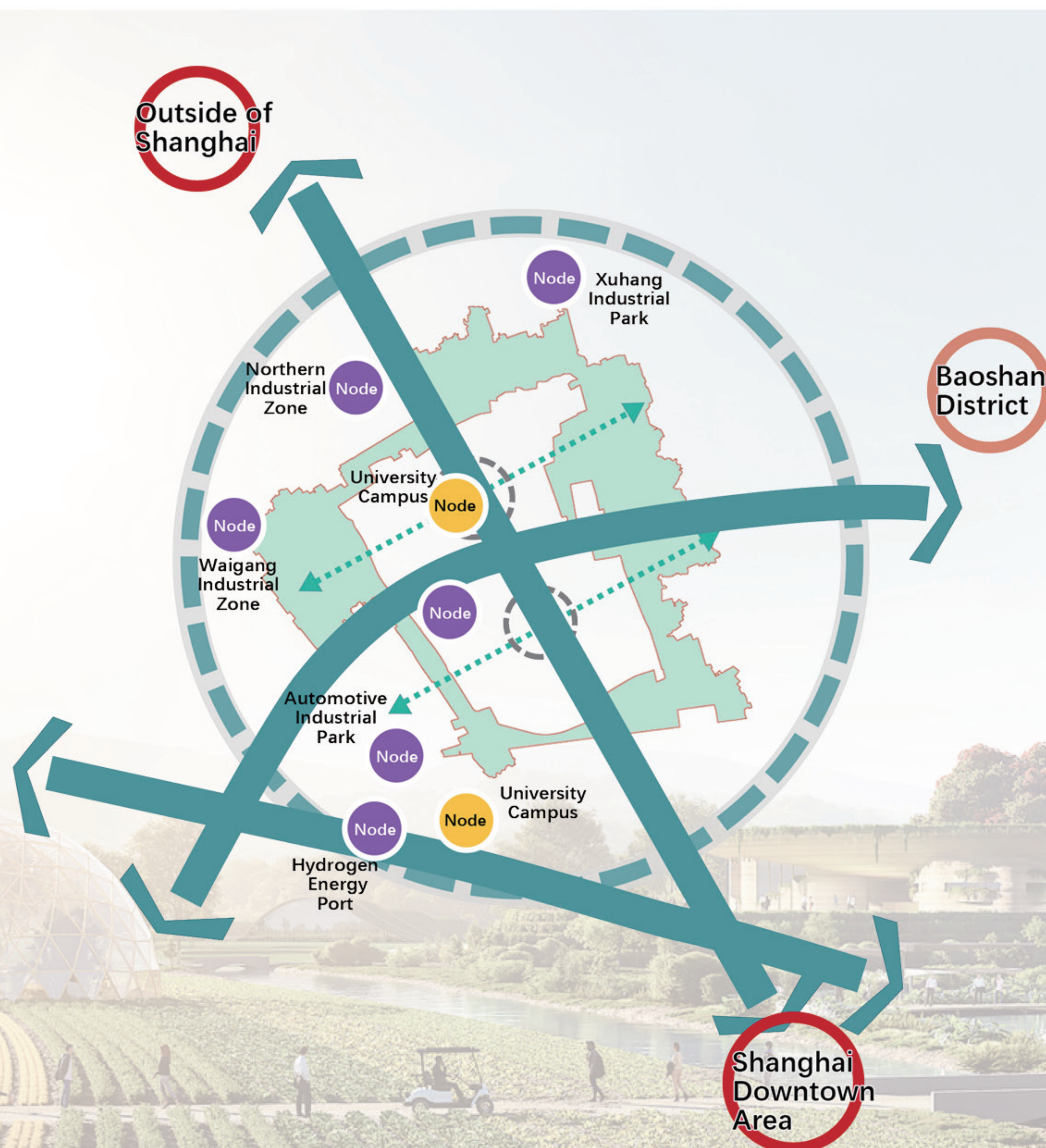
As an upcoming comprehensive regional node city in Shanghai, Jiading will act as an engine for the Yangtze River Delta area. Jiading New Town, the project site, was originally suburban area around the city, but now evolving into a "structural part" with high composite value for Jiading.

The plan focuses on long-term goals of integrating production, ecology, living, life, vitality, and livelihood to establish a community of all life, aiming to create an integrated high composite ecological green environment that harmonizes nature, society, and industry to realize principles of putting people first, ecological guidance, and innovation-driven development. The plan proposes to take social enterprises as development anchors, synergizing ecological, industrial, cultural, and social resources to strive for an extraordinary composite value that extends beyond mere ecology. A distinctive gateway image will be shaped under sustainable, eco-innovative technologies and concepts, and Jiading's "Enlightenment Water Town" ecological-cultural landscape will be cultivated. This will establish an "Multifaceted Ecological Site" of Jiading's innovative development, creating a "Circle of Habitat" for sustainable progress. The greenway system will form by 2025, becoming an integral part of Shanghai's ecological network and contributing to a new urban spatial pattern - one with interlaced blue and green spaces, embedded green plants in the urban, and urban-rural integration.

The project is located in the greenbelt encircling Jiading New Town, with a total area of 70.43 km² and a perimeter of approximately 42 km.



Historically belonging to the Wu region, now Jiading has become the northwestern gateway of Shanghai. It will take innovative ecological sustainability, and cultural vitality as the core, aiming to act as an engine for the Yangtze River Delta area.



Connecting the main urban area with areas outside of Shanghai, connecting villages with new towns; connecting nature with human settlements, connecting enterprises with urban living, connecting universities with society, providing both physical and social spaces.

An Area of 70 Square Kilometers

(Limited) Ecological Physical Space:

10km² of water bodies rehabilitation, 20km² of forest belts restoration,

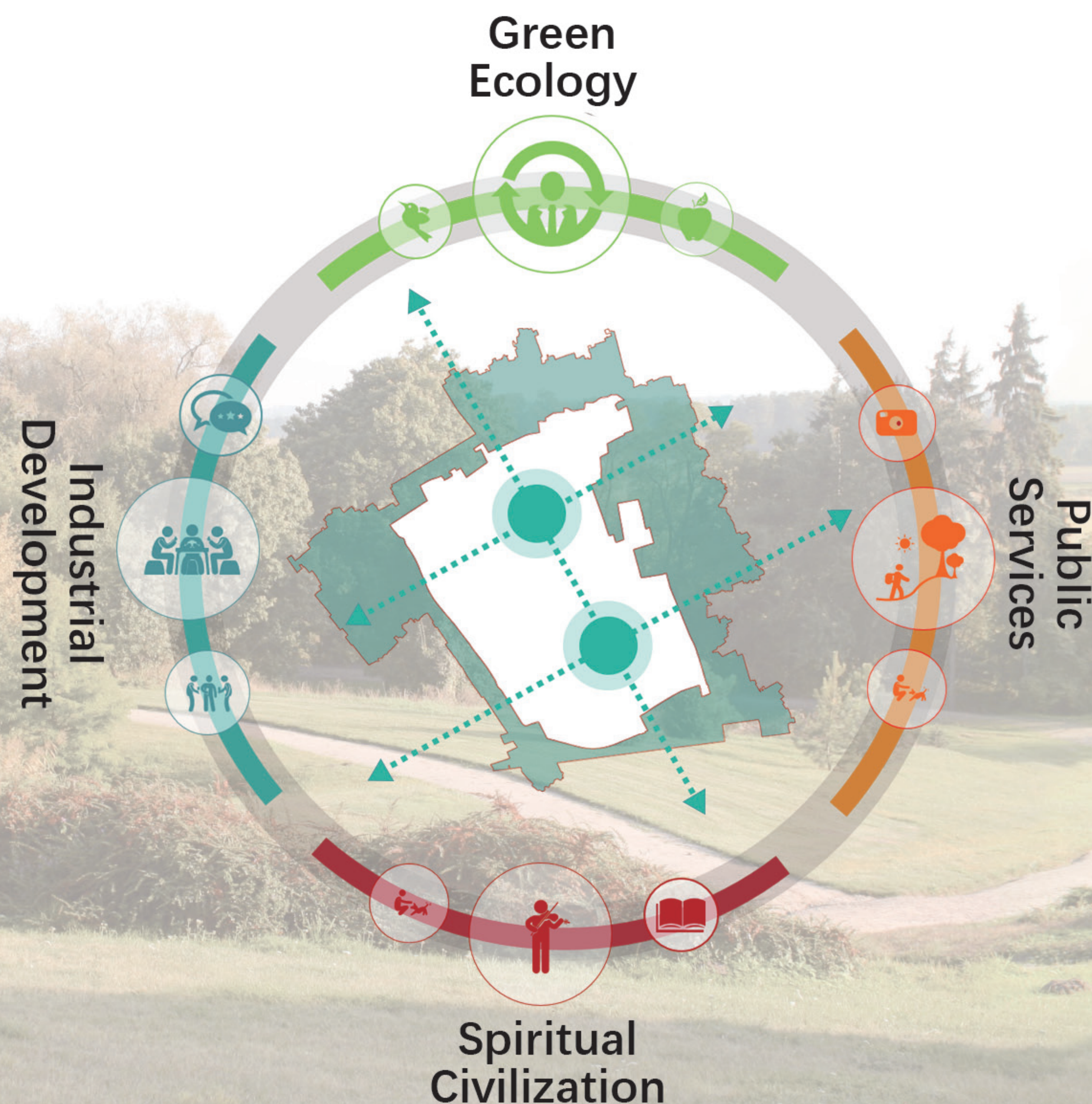
A 70km greenway encircling the city, 50km of ecological waterfronts,

3 suburban parks, 10 theme parks...

(Unlimited Extension) Social and Cultural Space:

A vibrant space for interaction, a thriving space for living,
An equitable and reciprocal space for sharing,
Space for innovation...

As it transforms, the Jiading Green Ring will also undergo a metamorphosis - no longer just mono-functional forests surrounding the city, but rather becoming a "structural part" of Jiading with high composite value.



Green Ecology:

The foundation and safeguard for people's livelihood and urban development

Industrial Development:

The source of momentum for low-carbon, environmentally friendly, and sustainable growth

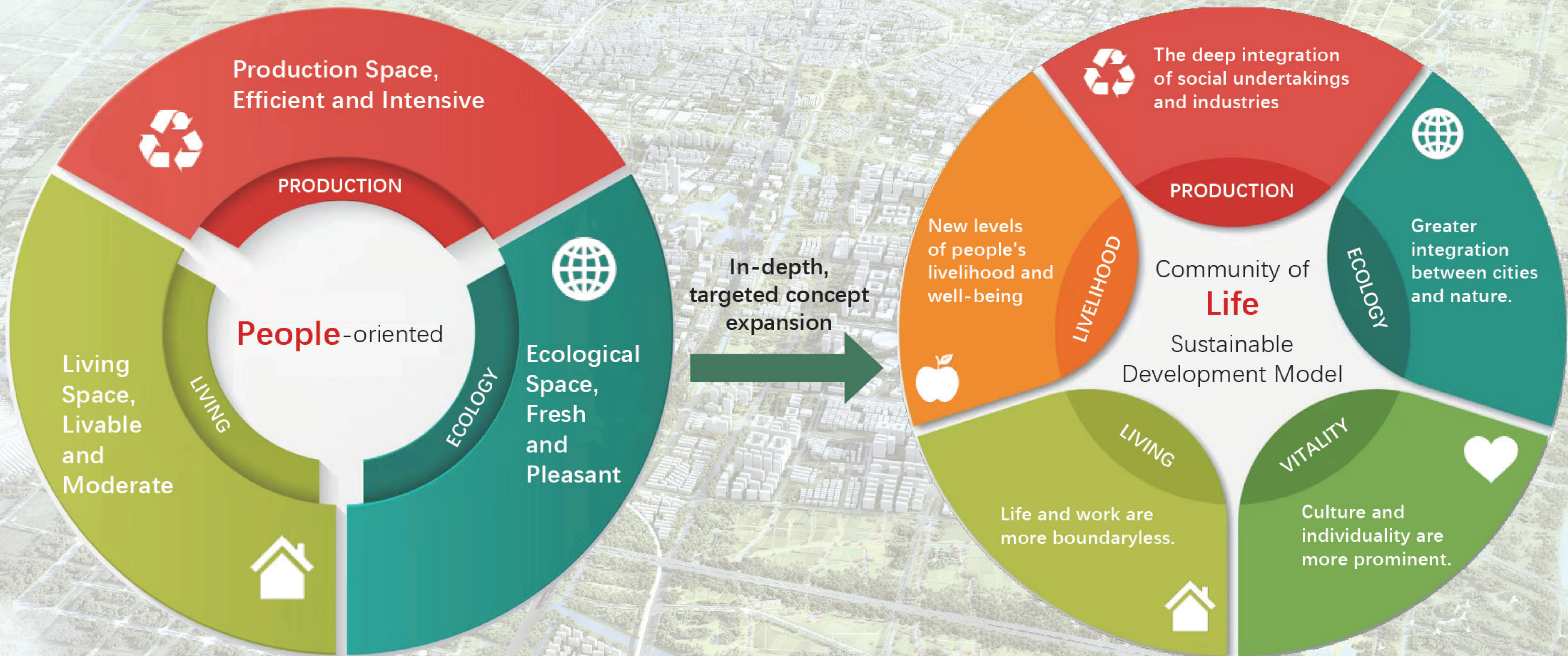
Spiritual Civilization:

The wellspring of edification under the guidance of fairness, openness, and sharing

Public Services:

The source of charm that reflects the vitality of the city

The overall principles are proposed, i.e.: putting people first, ecological guidance, and innovation-driven development principles with high composite value. It comes up with leveraging social enterprises to lead the development of a green environment. From the perspective of open sharing and multi-stakeholder collaboration, it seeks to integrate the ecological, industrial, and cultural resources both within and outside the green environment, to facilitate the integration of the six spheres of life.



Underpinned by three key strategies - "Embracing Nature, Laying an Ecological Foundation", "Cultivating Flows, Energizing Innovation", and "Harmonizing Spaces, Nurturing the Spirit" - this plan aims to construct a comprehensive ecological green ring that connects the inner and outer parts of the new town, integrating natural ecology, cultural ecology, industrial ecology, and social ecology, which will revitalize the 70 km² green ring to thrive in diversity.

Nature-friendly Ecology-based (ECOLOGY)



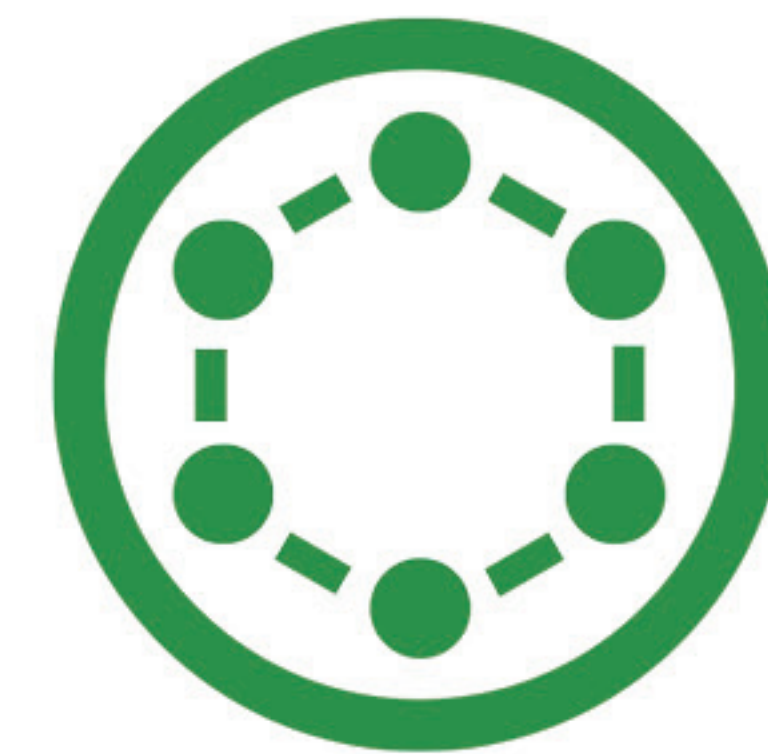
Matrix corridor,
pattern optimization.
Animal-friendly,
habitat diversity.
Element coordination,
composite enhancement.

Converge Flows, Innovate with Vitality (PRODUCTION, LIVING, LIVELIHOOD)



System coupling,
synergistic coexistence.
Coherent openness,
urban vitality.
Multidimensional connections,
green living.

Place Resonance Nourishment for The Soul (LIFE)

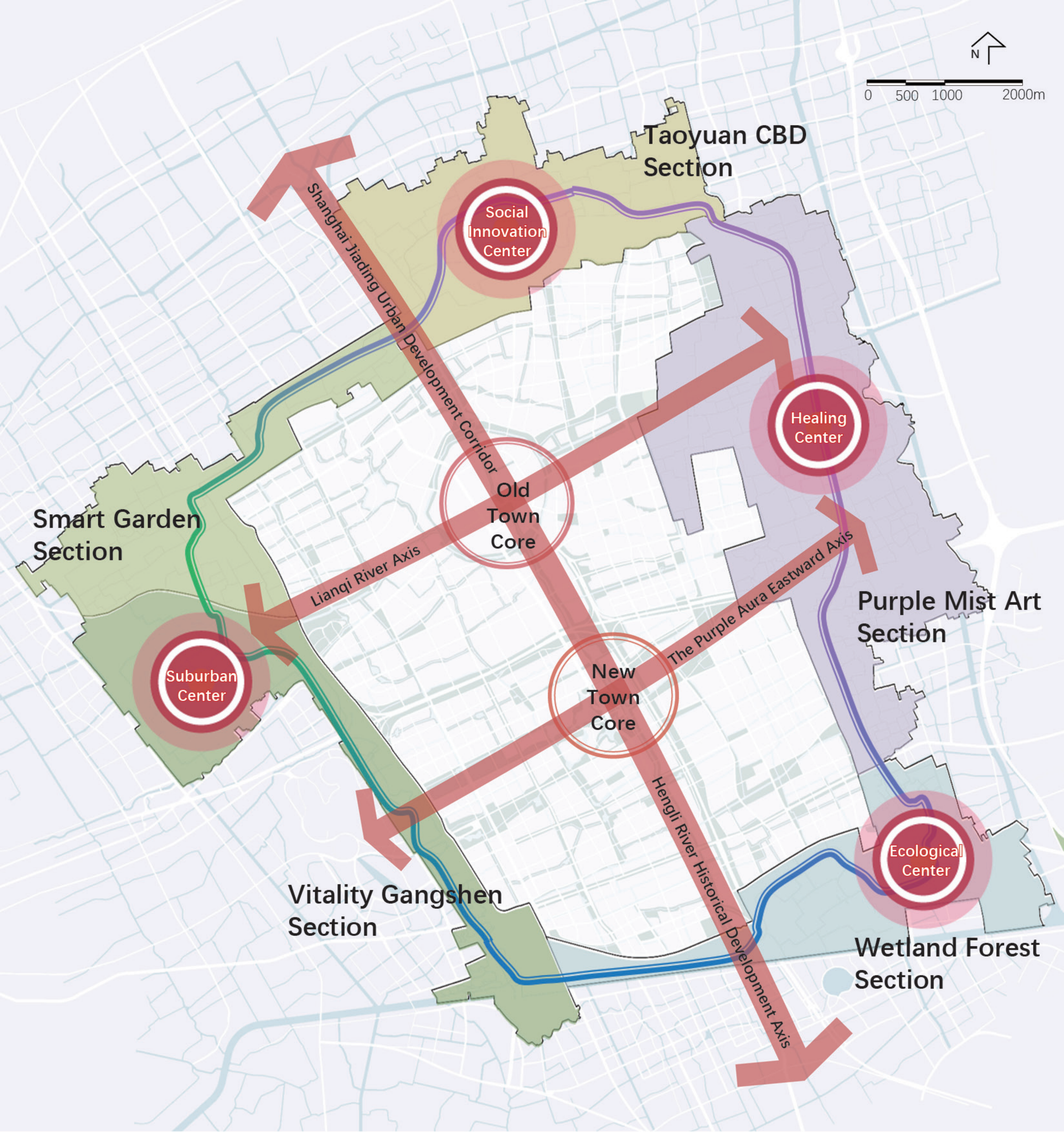


Ten scenes restored,
place resonance.
Cultural experience,
cultural nourishment.
Jiading Green Ring Covenant,
value guidance.



MULTIFACETED ECOLOGICAL SITE CIRCLE OF HABITAT

The green ring breath with Jiading



The overall structure follows a "one belt, four centers, five sectors" framework.

Jiading:
Cross plus Ring

Green Ring:
One ring line, four centers, five sections

One ring line: Green Ring Main Line

Four centers: Social Innovation Center
Suburban Center
Healing Center
Ecological Center

Five sections: Vitality Gangshen Section
Smart Garden Section
Taoyuan CBD Section
Purple Mist Art Section
Wetland Forest Section



Overall Content

- 1 Jiading New City Gateway
- 2 First-Class Station
- 3 Second-Class Station
- 4 Ecological Source Area

Vitality Gangshen Sector

- 5 Jiabei Countryside Park
- 6 Fields between The Ridges
- 7 Waterfront Lounge
- 8 Gangshen Memory
- 9 Water Sports Area

Intelligent Garden Sector

- 10 Urban Farm
- 11 Chrysanthemum Garden
- 12 Youth Innovation Center
- 13 Meditation Garden
- 14 Talent Garden

Peach Blossom CBD Sector

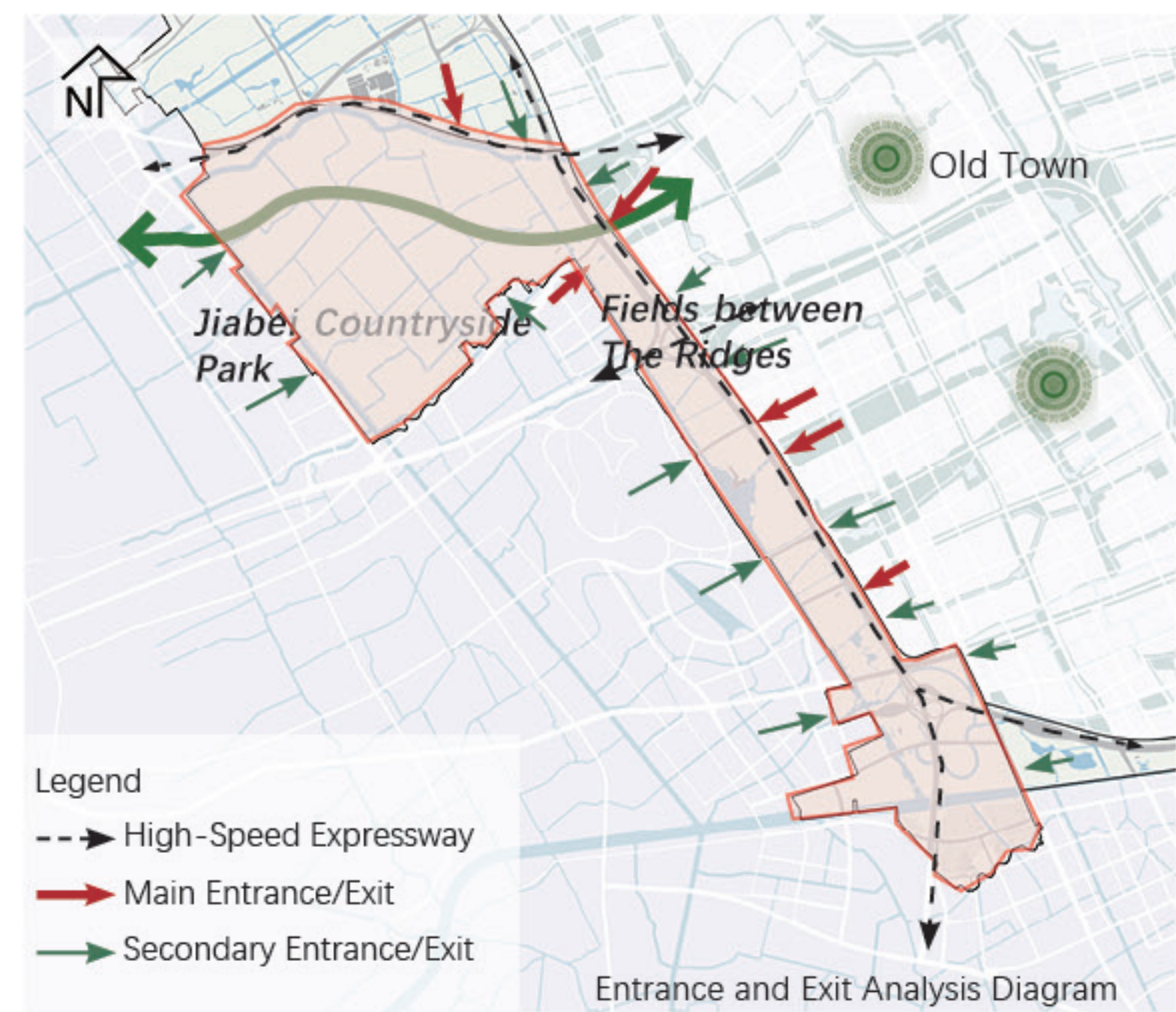
- 15 Social Innovation Center
- 16 Rural Talent Center
- 17 Smart Island
- 18 The Peach Blossom Land
- 19 Zero Carbon Village
- 20 Rural Market
- 21 Pond River Forest
- 22 Cloud Bamboo Gallery

Purple Art Sector

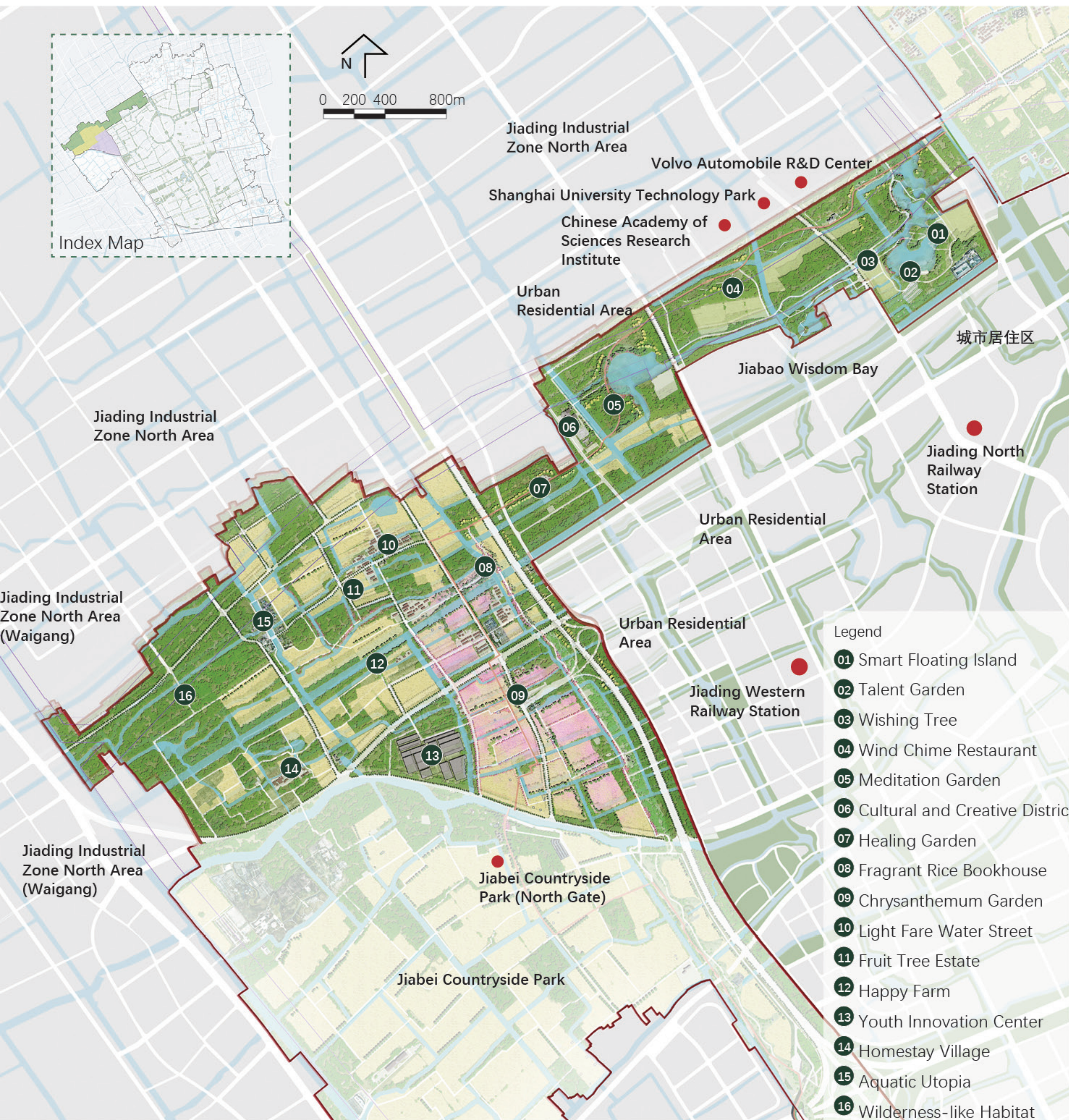
- 23 Native Village
- 24 Healing Garden
- 25 Leisure Waterfront
- 26 Zidong Lake Art Garden
- 27 Grape Theme Park
- 28 Cloud Art Center

Wetland Forest Sector

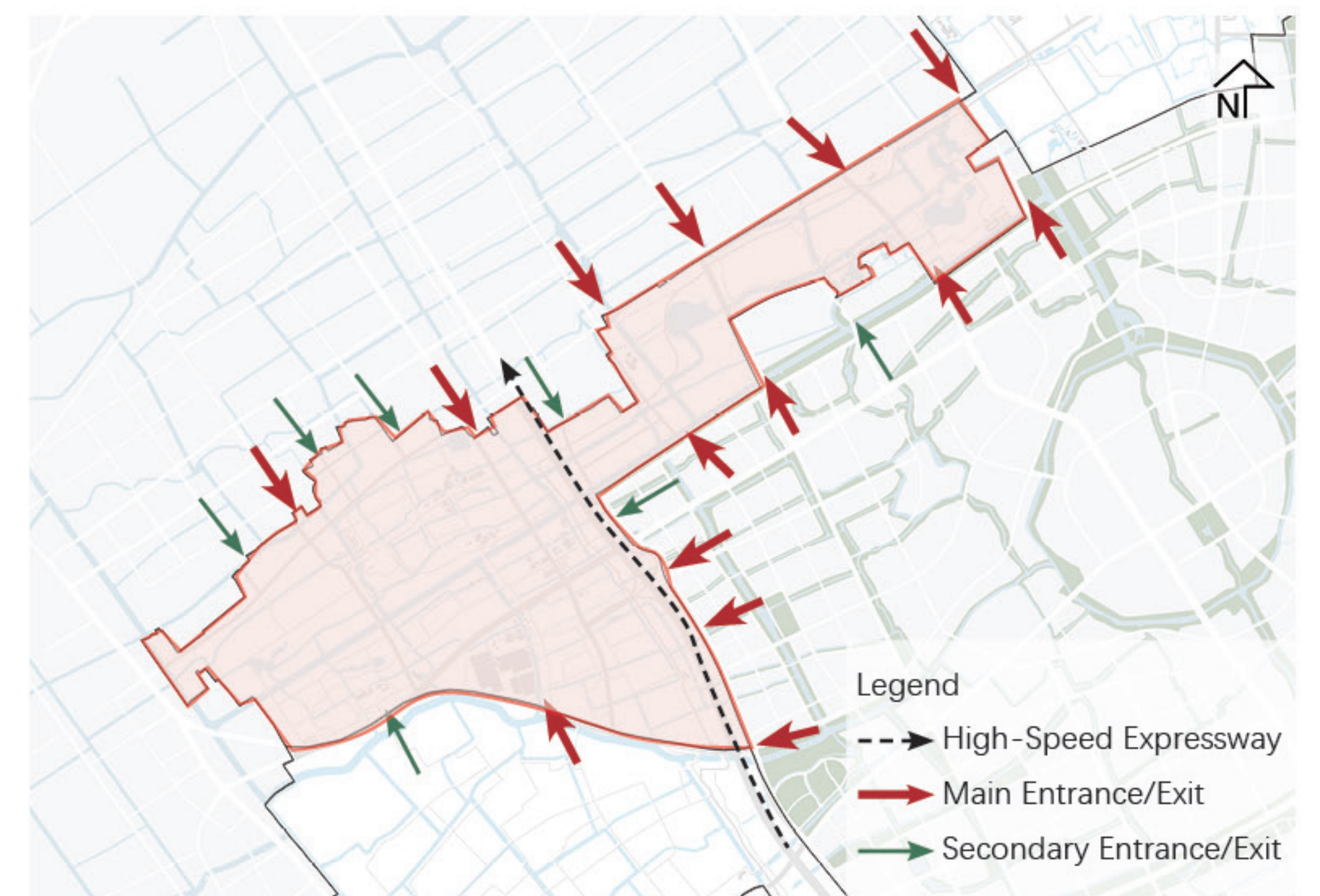
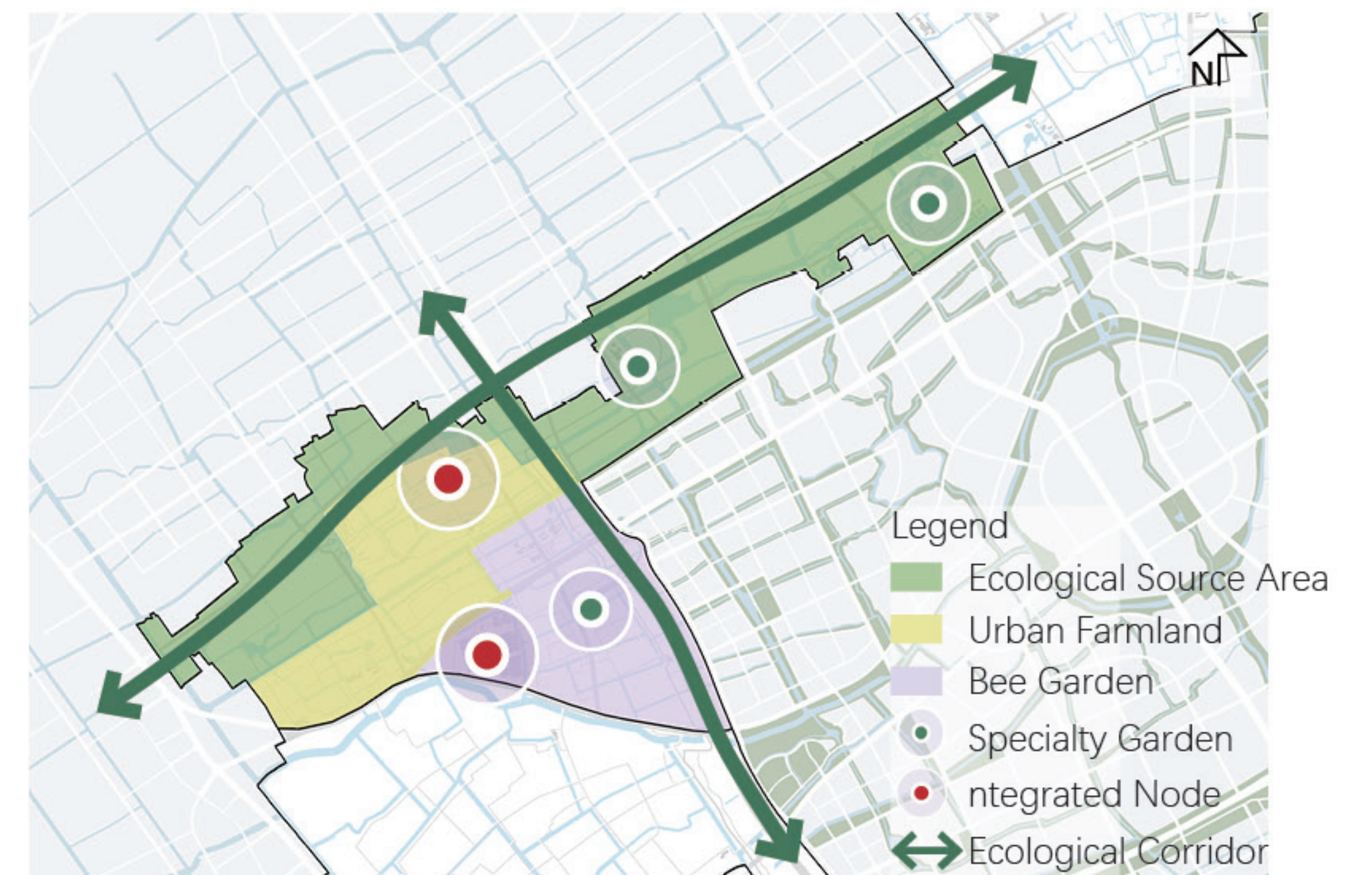
- 29 South Bamboo Village
- 30 Fish and Bird Pond
- 31 Plum Blossom Grove
- 32 Ritual Music Pastoral
- 33 Lotus Pond

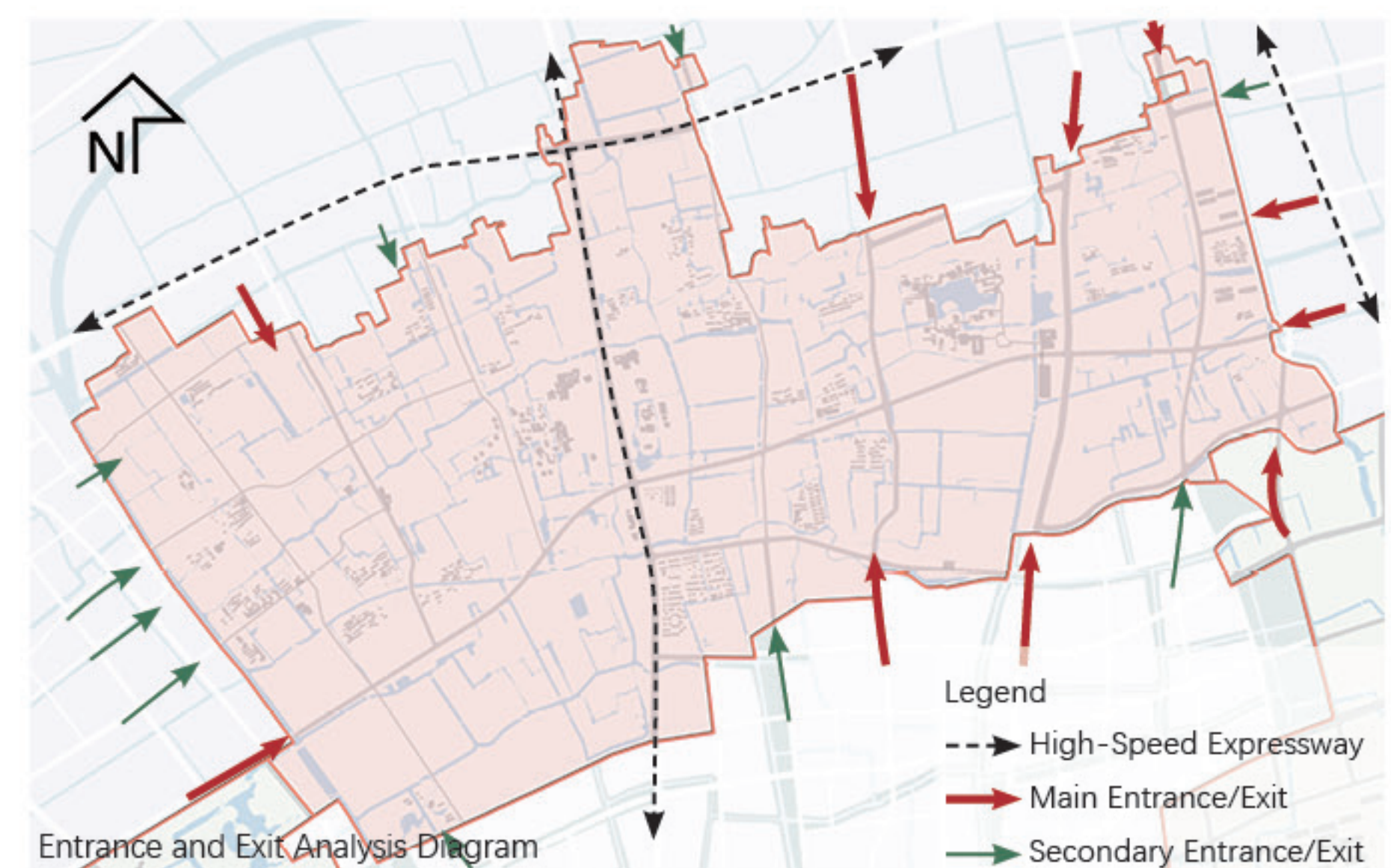
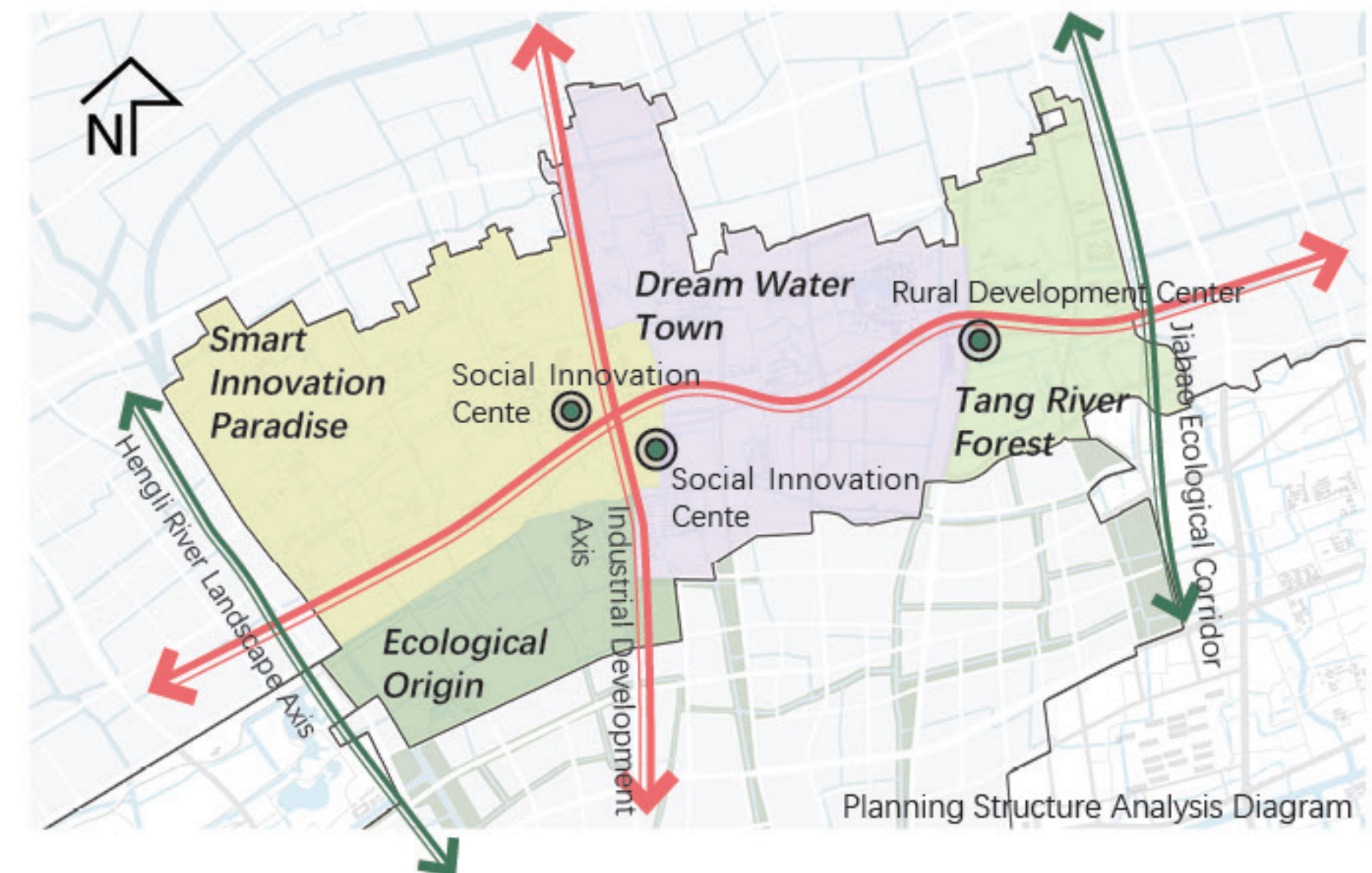
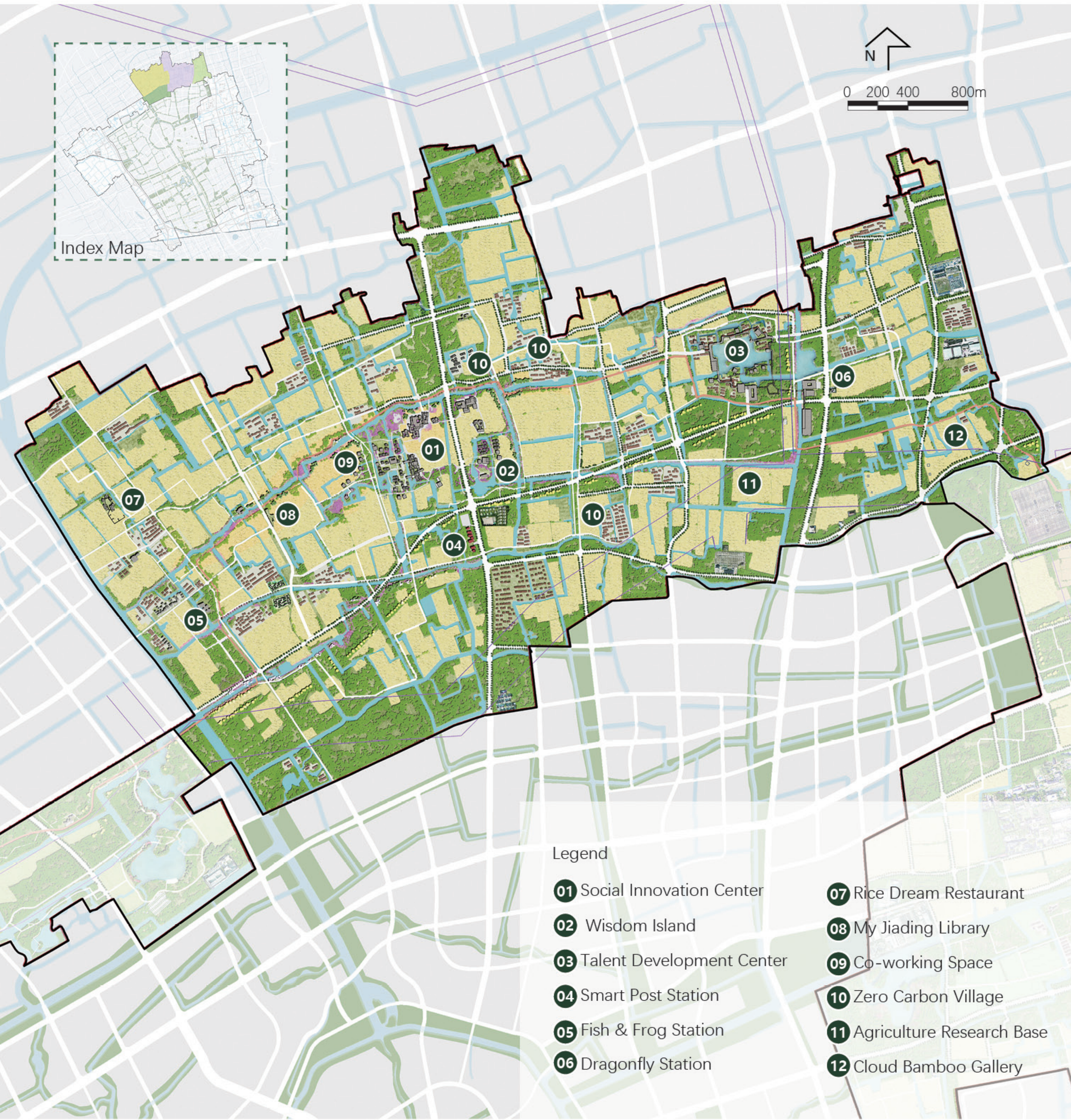


Building on the existing sports facilities, the southwestern sector of the green ring will create a water-front recreation area, where the waterfront lounge gathering node will draw inspiration from Jiading's characteristic "sandbank landform". Thus, the novel waterfront forest image not only optimizes the ecological connectivity in this area, but also enhances the urban appeal of the Jiading New Town.

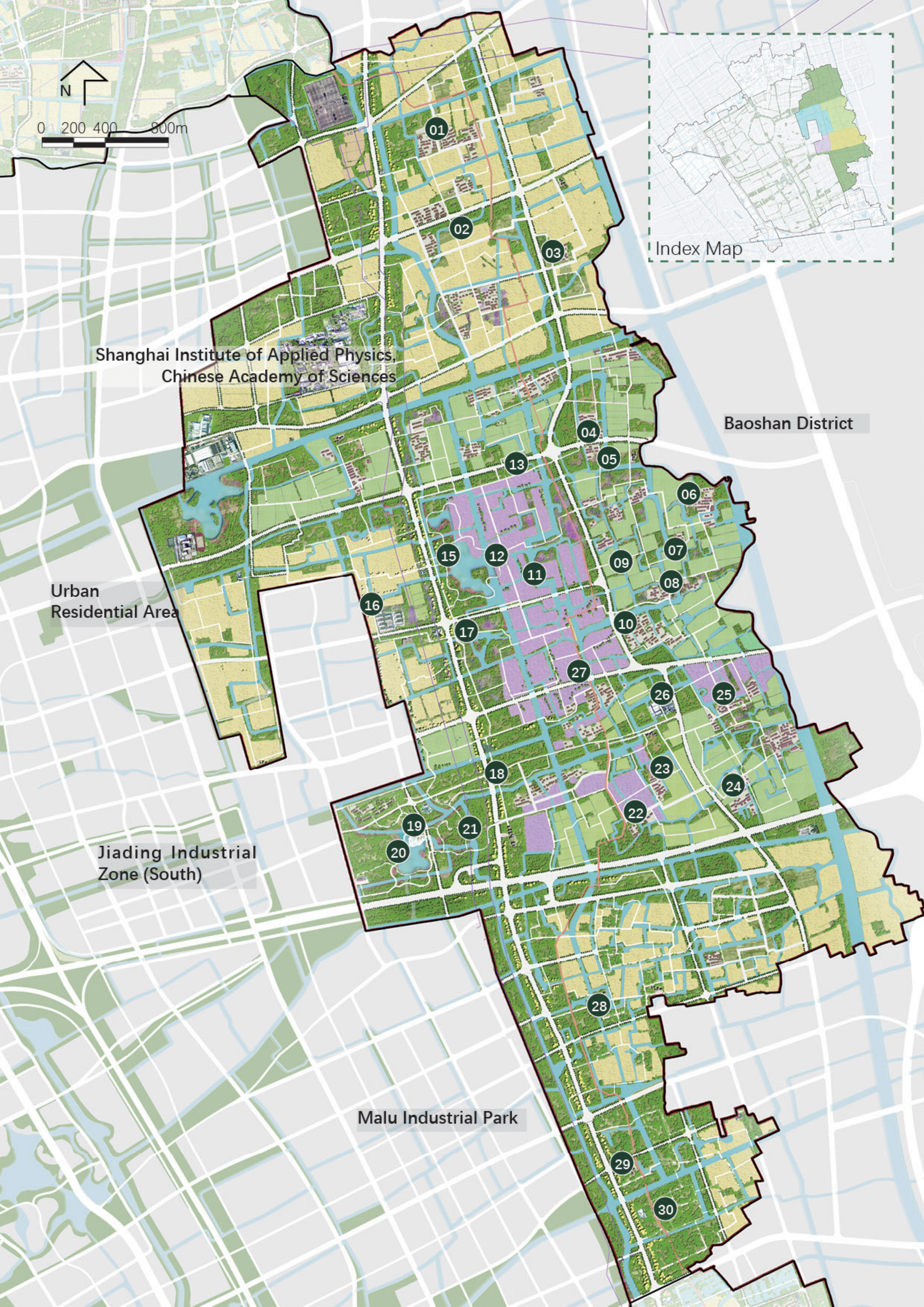


The northwestern sector aims to uplift the regional industrial ecology to create a "intelligent garden" and a "wilderness-like suburban area" with the existing suburban parks and the intelligent manufacturing industrial park on the north side, which are the outdoor social and healing spaces for technological innovation professionals.





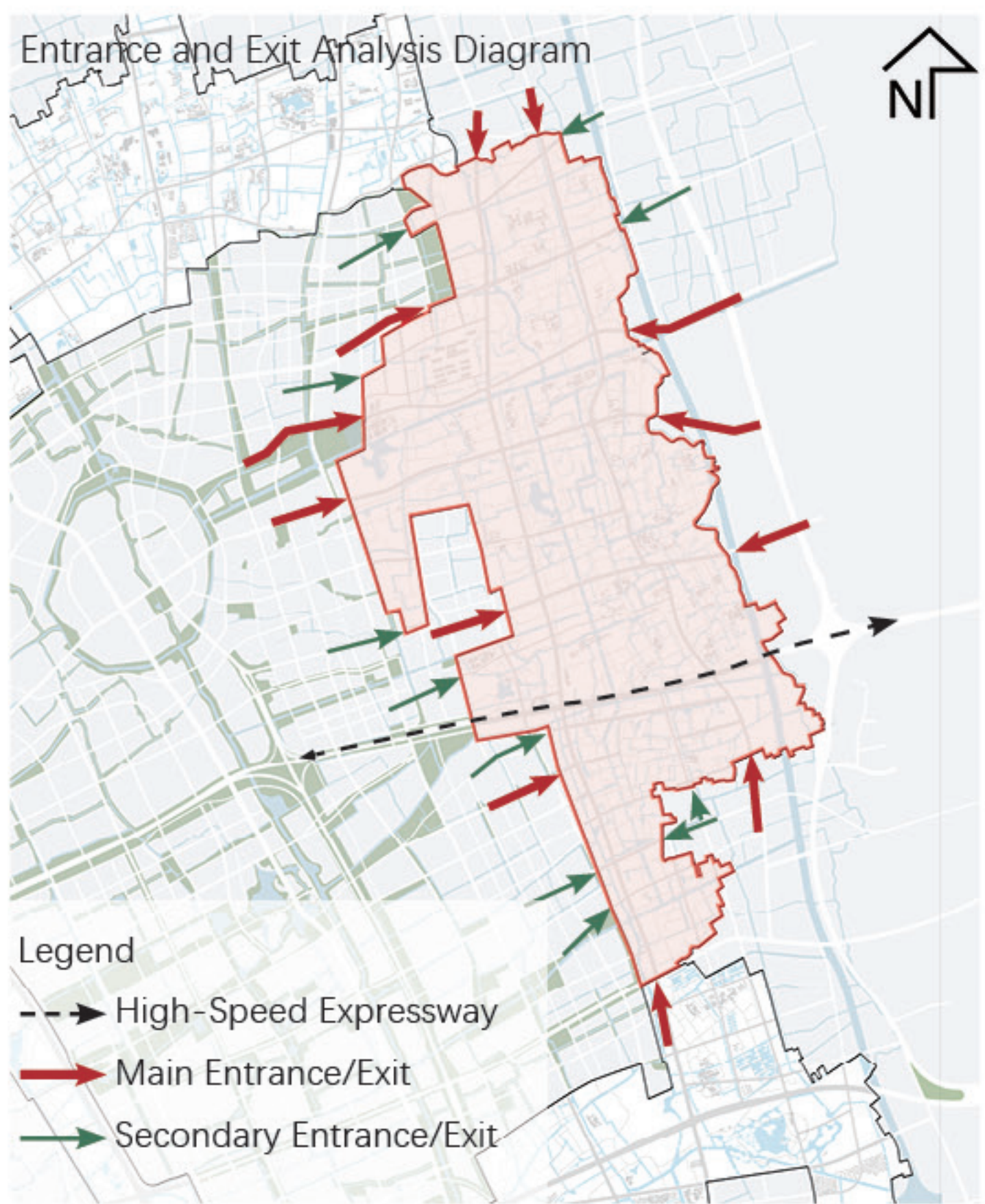
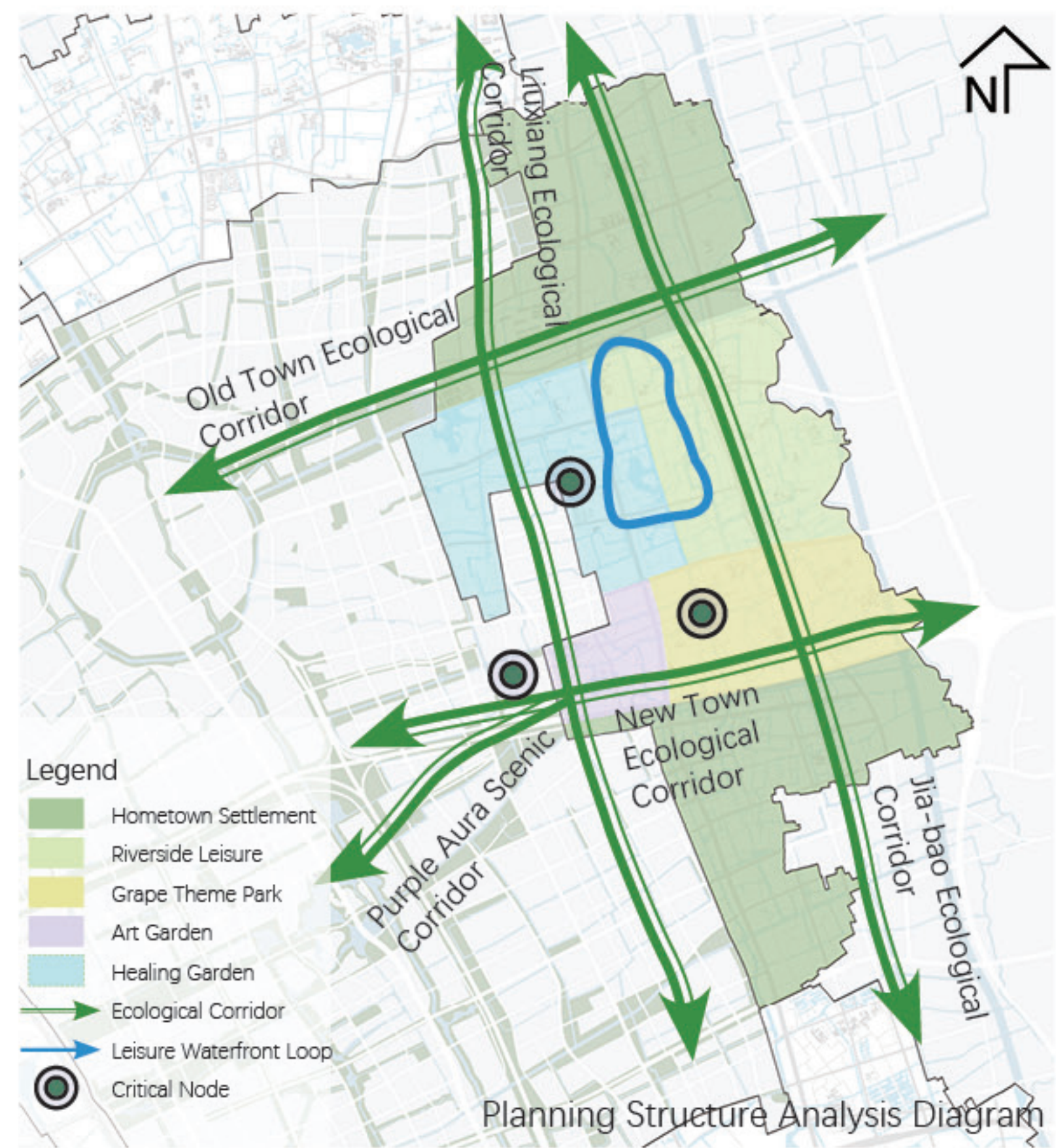
The northeastern sector is in the Peach Blossom CBD(rural regeneration-based complex) with strong water town status resources, which represents the potential to inject vitality into Jiading's future development. Grounded in the water town and agrarian landscapes, more high-quality farmland will appear after village integration and consolidation. The regenerative power and development dynamism for the green environment and Jiading will be unleashed with office, creative, educational, and wellness facilities around, and the force of social innovation industries.

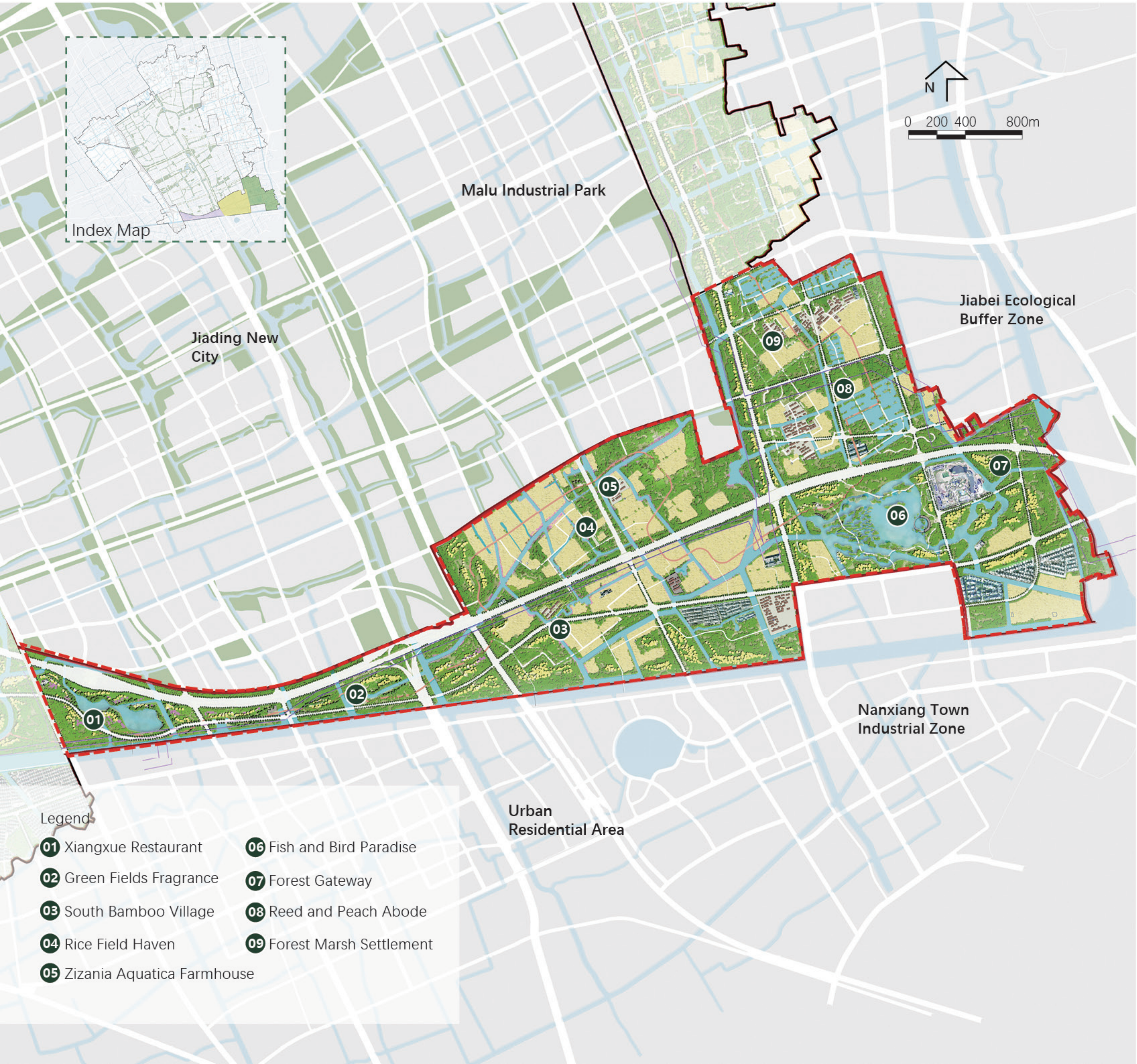


Legend

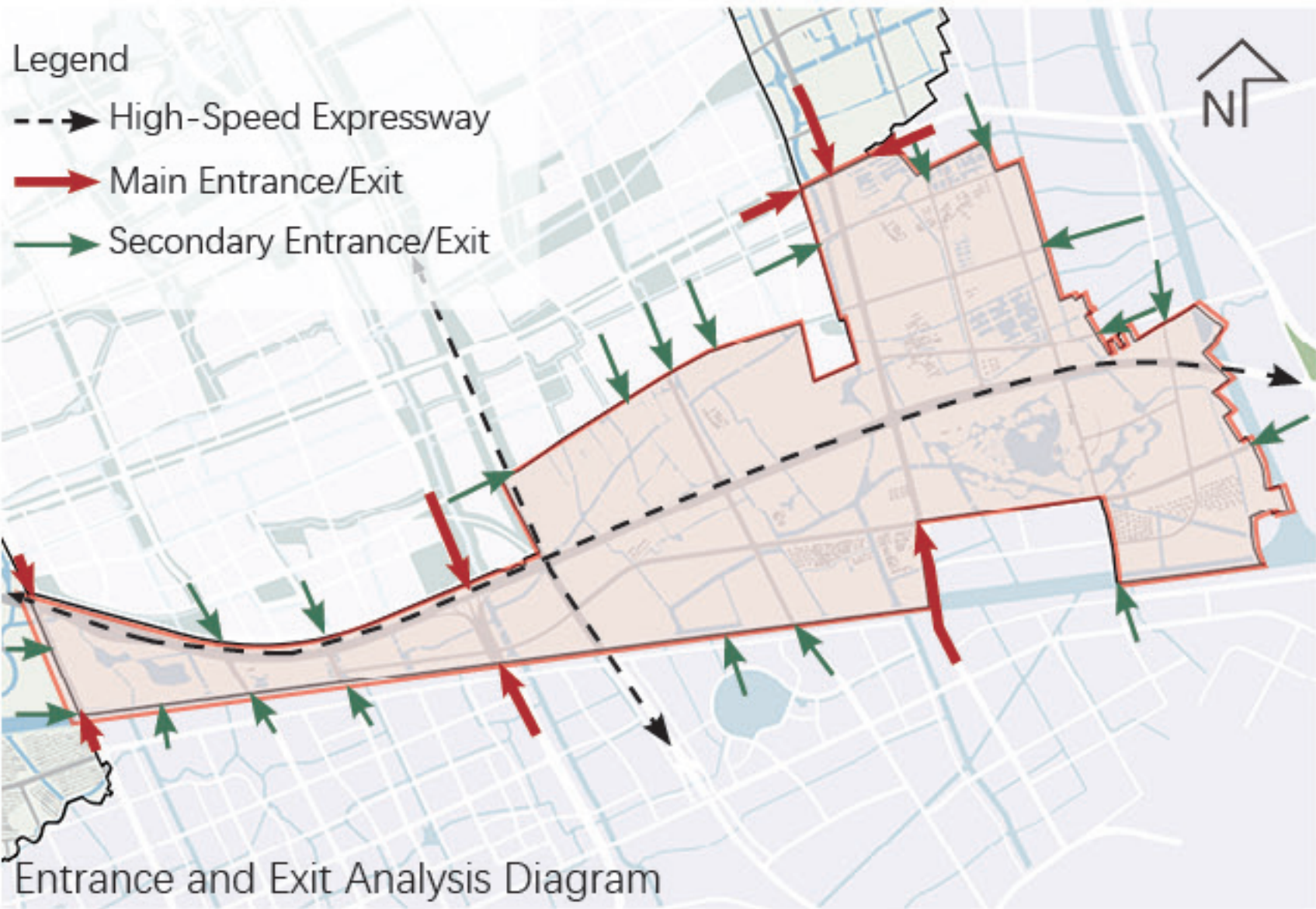
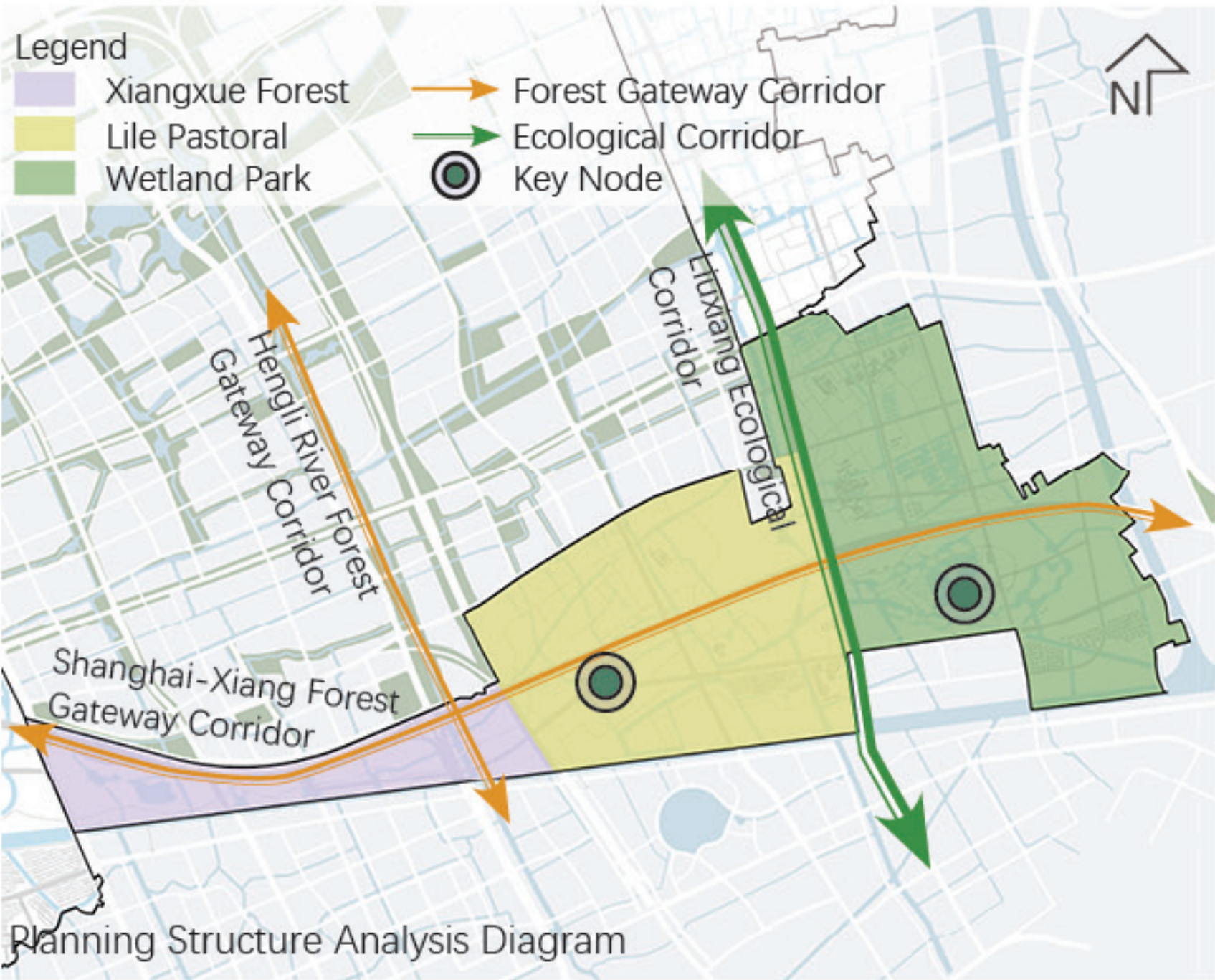
- | | |
|------------------------------|----------------------------|
| 01 Paddy Field Restaurant | 16 Aromatherapy Hotel |
| 02 Moonlight Camp | 17 Herb Market |
| 03 Fragrant Rice Village | 18 Eco Park |
| 04 Dreamy Purple Water Alley | 19 Cloud Art Center |
| 05 Water Curtain Pier | 20 Zi Dong Lake |
| 06 Riverside Tea Bar | 21 Fishing Manor |
| 07 Flowing Water Station | 22 Grape Wine Tavern |
| 08 Six Rivers Return Hall | 23 Grape Vineyard |
| 09 Grape Art Village | 24 Grape Art Village |
| 10 Droplet Restaurant | 25 Midsummer Restaurant |
| 11 Field Art Installations | 26 Jia Yuan Hai Art Center |
| 12 Edible Landscapes | 27 Grape Art Village |
| 13 Wisteria Garden | 28 Pu Men Farm |
| 14 Fragrant Community | 29 Zhi Li Lodge |
| 15 Butterfly Lake | 30 Crop Observatory Garden |

The eastern side has a "Purple Art Segment" with a distinctive landscape identity in the Malu area. Extending from the auspicious "Purple Qi From the East" axis, the "Purple East Lake Art Garden" will be created, integrated with the Malu Grape Park and the "wellness garden", providing citizens and artists with a rejuvenating new experience.





The southeastern section will undergo ecological remediation on the sites vacated by village relocation and factory removal. Restoring high-quality farmland, constructing wetland forests, and strengthening the treatment of reclaimed water, which help it become the vital "natural hub" - the most important natural ecological source for Jiading's green ring.



I. Strive for An Extraordinary Composite Value that Extends beyond Mere Ecology

Focusing on the long-term objective of combining six key aspects of urban development: production, ecology, living conditions, lifestyle, vitality, and support systems, the green ring will no longer be limited to maintaining the ecological balance of the new town. Instead, it's on a mission of coupling urban life, industry, ecology, public services, and spiritual civilization.

How will the green environment achieve this high composite value beyond its ecological functions?



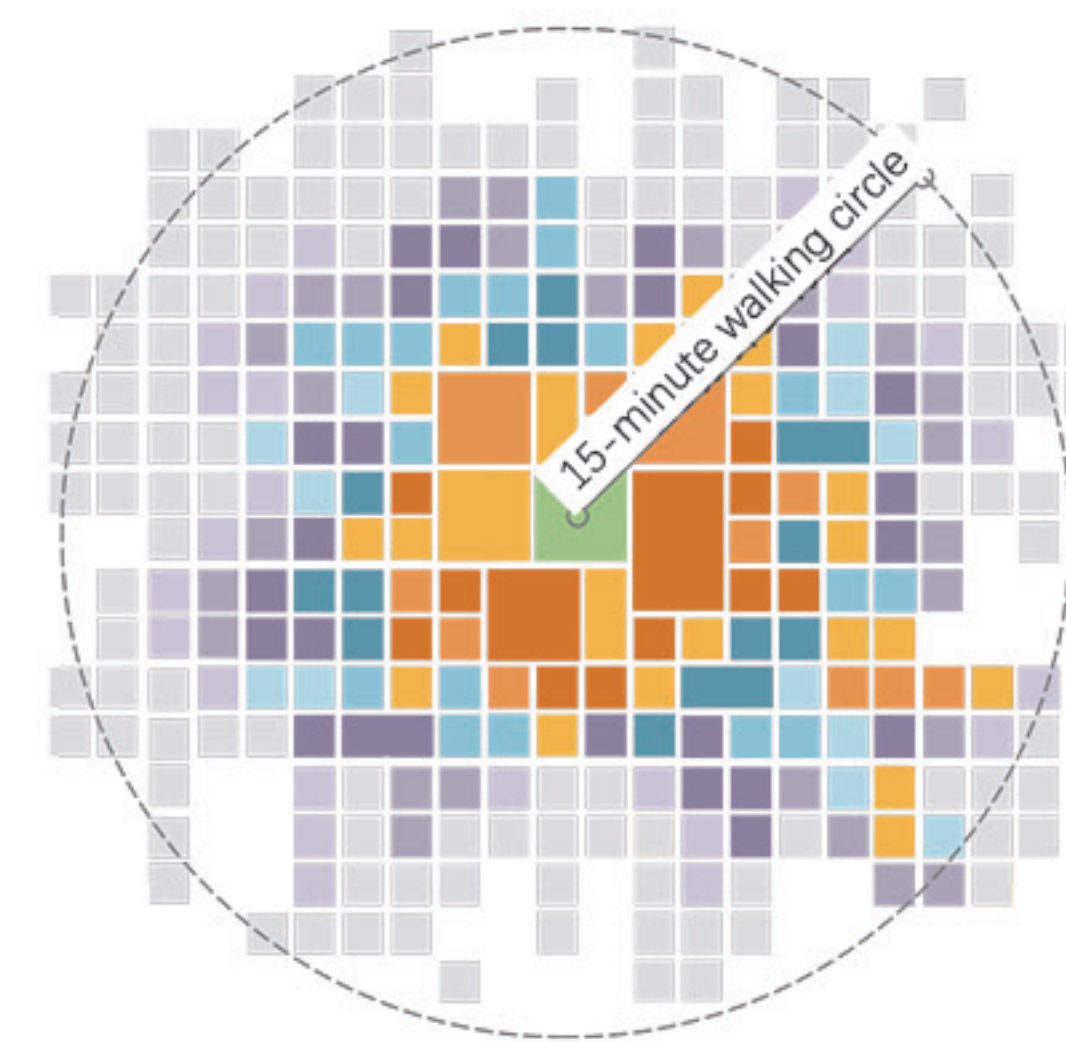
FINANCE

Impact Fund Town
Social Value Investment
Alliance
e-Farmer Spring
Bee Inclusion
Zhonghe Agricultural Credit
Green Finance
Innovation Industrial Park
Public Facility Investment
Rural Consumption
.....



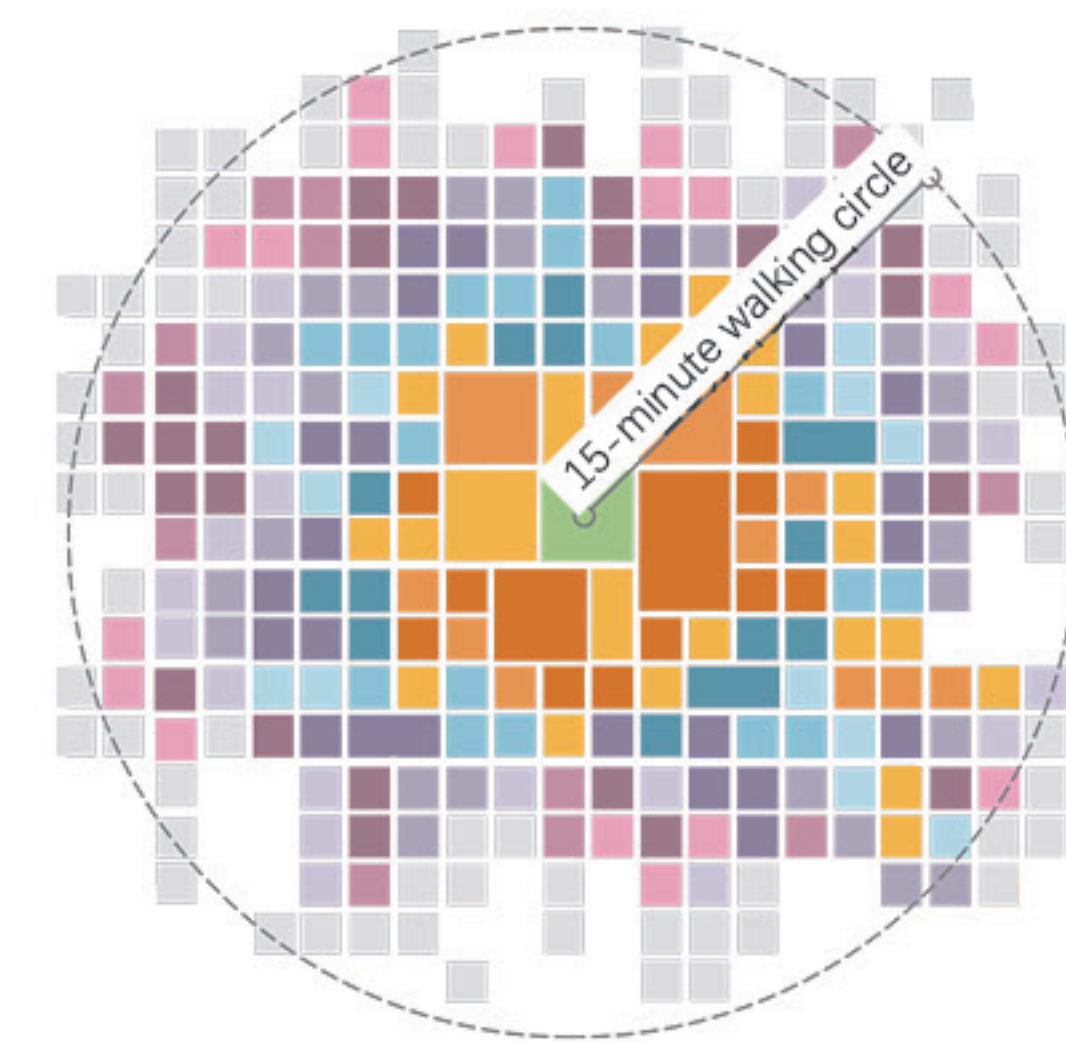
TECHNOLOGY

Smart Energy
Management
Smart Digital Base Station
Ecological Agriculture
Research Base
Artificial Intelligence Development
Site
Grape Experimentation Base
.....



COMMUNITY

Urban Think Tank
Industrial Think Tank
Shi Fang Yuan
Nourishment Garden
Self-sufficient Community
Innovation Market
Happiness Market
Instant Home Delivery
.....



CULTURE

Creative
Entrepreneurship
Academy
Mindfulness Center
Future Education Center
Yunke Art Center
Nature Education
College Student Forum
Si Hai Academy
Scholarly Knowledge Heritag
Citizens' Lecture Platform
Shanye Nature
.....



ECOLOGY

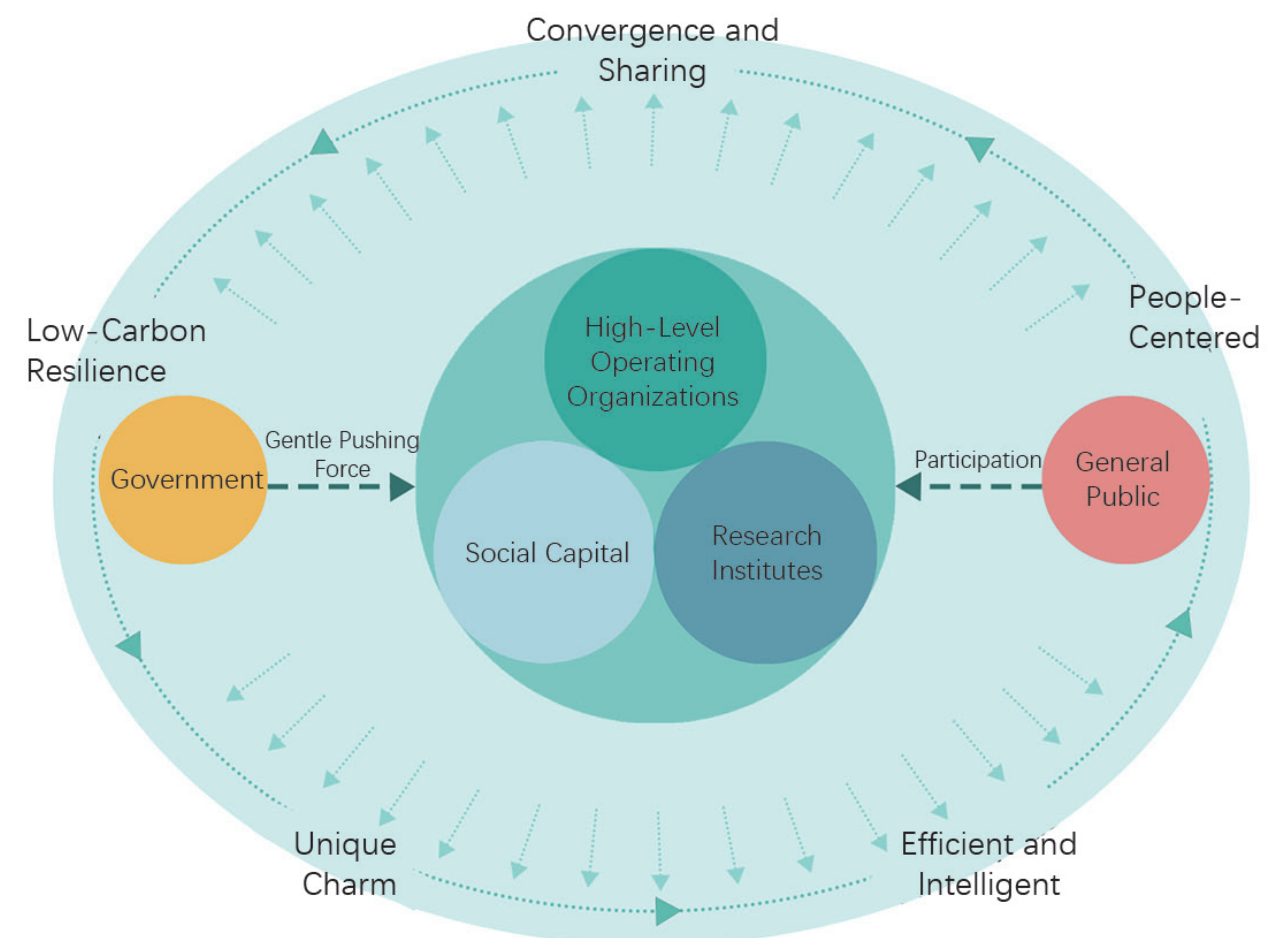
Carbon Sink Initiative
Menglang Carbon
Cooperation
Organic Farm
Pumen Sustainability
Sponge City
Wetland Restoration
Family Eco-Farm
Shared Transportation
Green Oxygen Bar
Biodiversity
.....

I. Strive for An Extraordinary Composite Value that Extends beyond Mere Ecology

The team has emphasized the social dimension in the planning, proposing a social co-production ecological service-oriented green environment development model led by social innovation enterprises. By harnessing the proactive role of the enterprises, the plan aims to activate the green environment's intrinsic vitality, while further enhancing its social impact within Jiading. The plan creates an integrated innovation ecological source of "economy-technology-community-culture-nature", unlocking the regenerative potential of the green environment's strategic areas, and catalyzing the transformation of Jiading's urban development model. By driving citywide innovation through social enterprises, the plan will establish the green environment as an "ecological source" that stimulates the city's development transition. In this way, the "Circle of Habitat" of Jiading will be shaped.



Green Loop "Influential Investment Value" Featured Project Portfolio

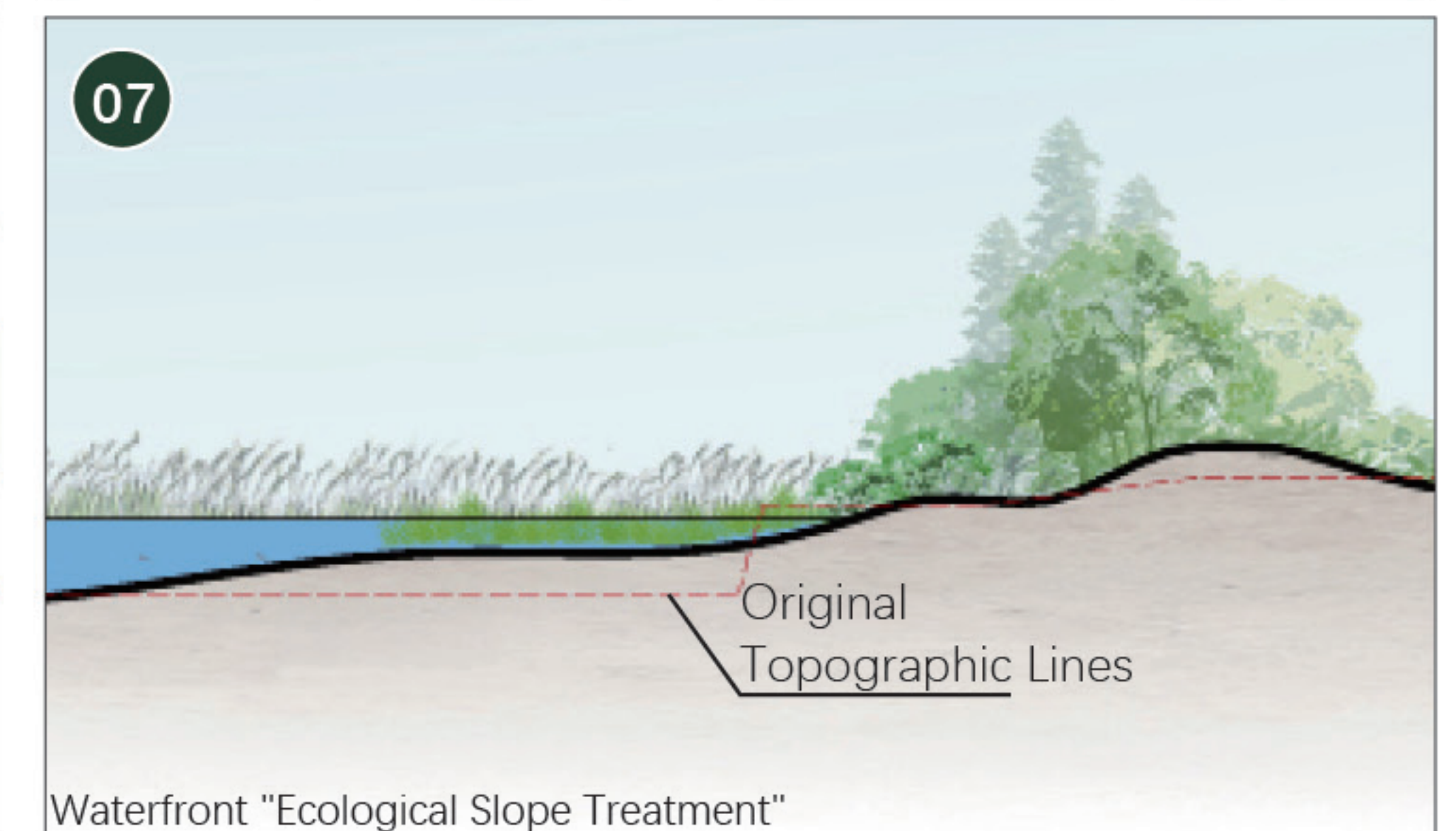
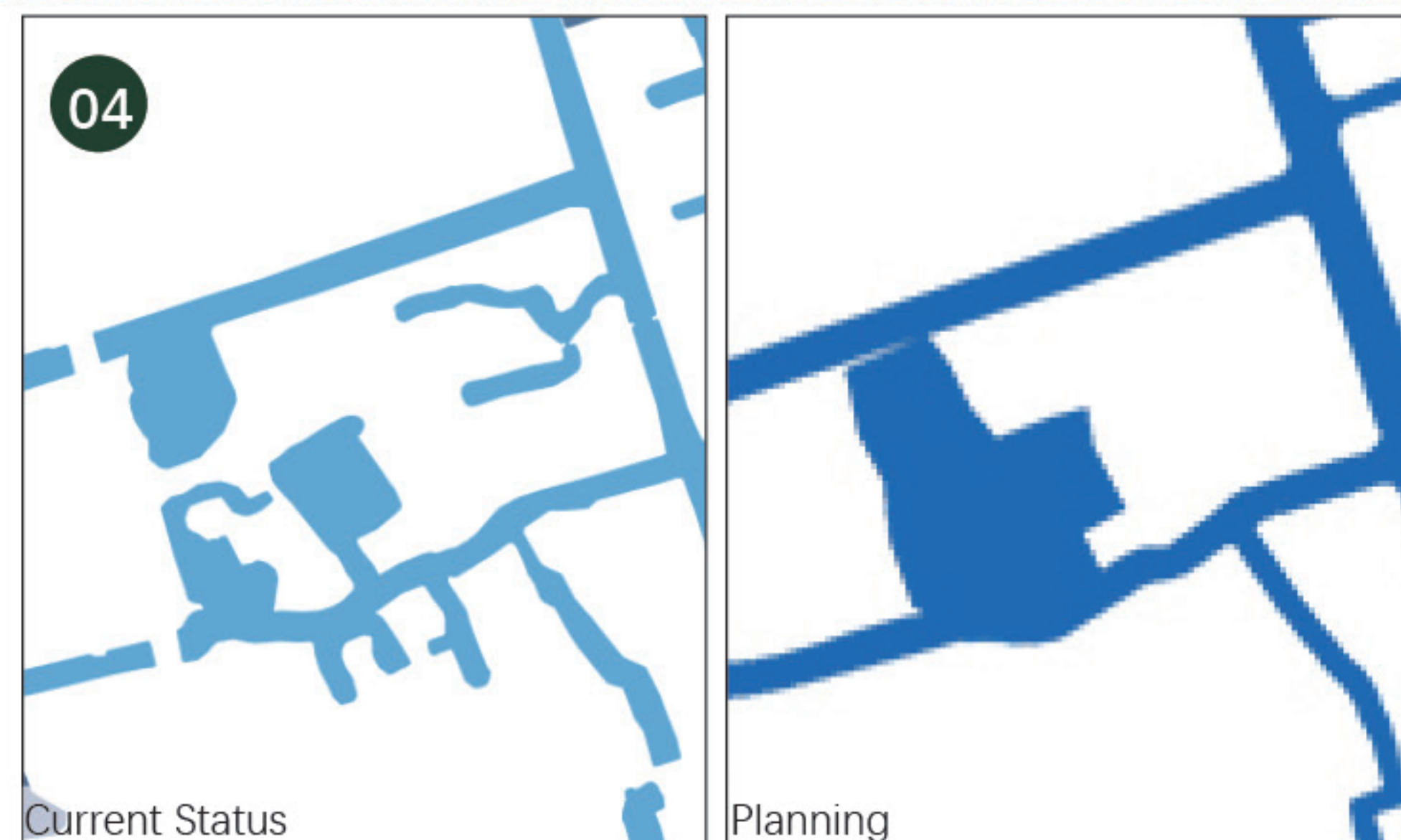
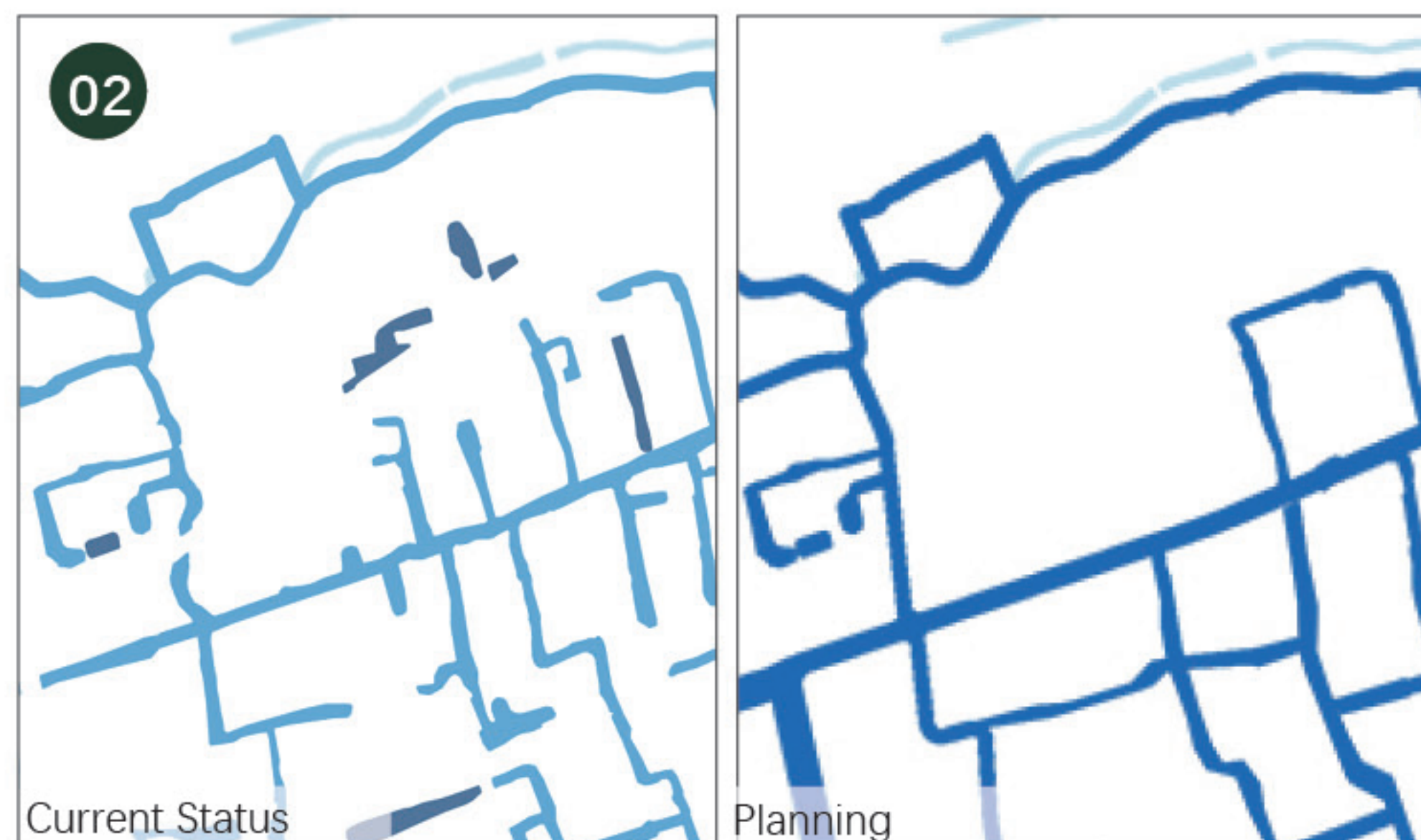


Future City and Social Construction Model

II. Cultivating Jiading's "Enlightenment Water Town" Ecological-cultural Landscape

Water Management

Jiading flourished upon the water, but rapid urbanization has eroded its distinctive characteristics. To recapture Jiading's "Enlightenment Water Town", the green environment planning takes a two-pronged approach:

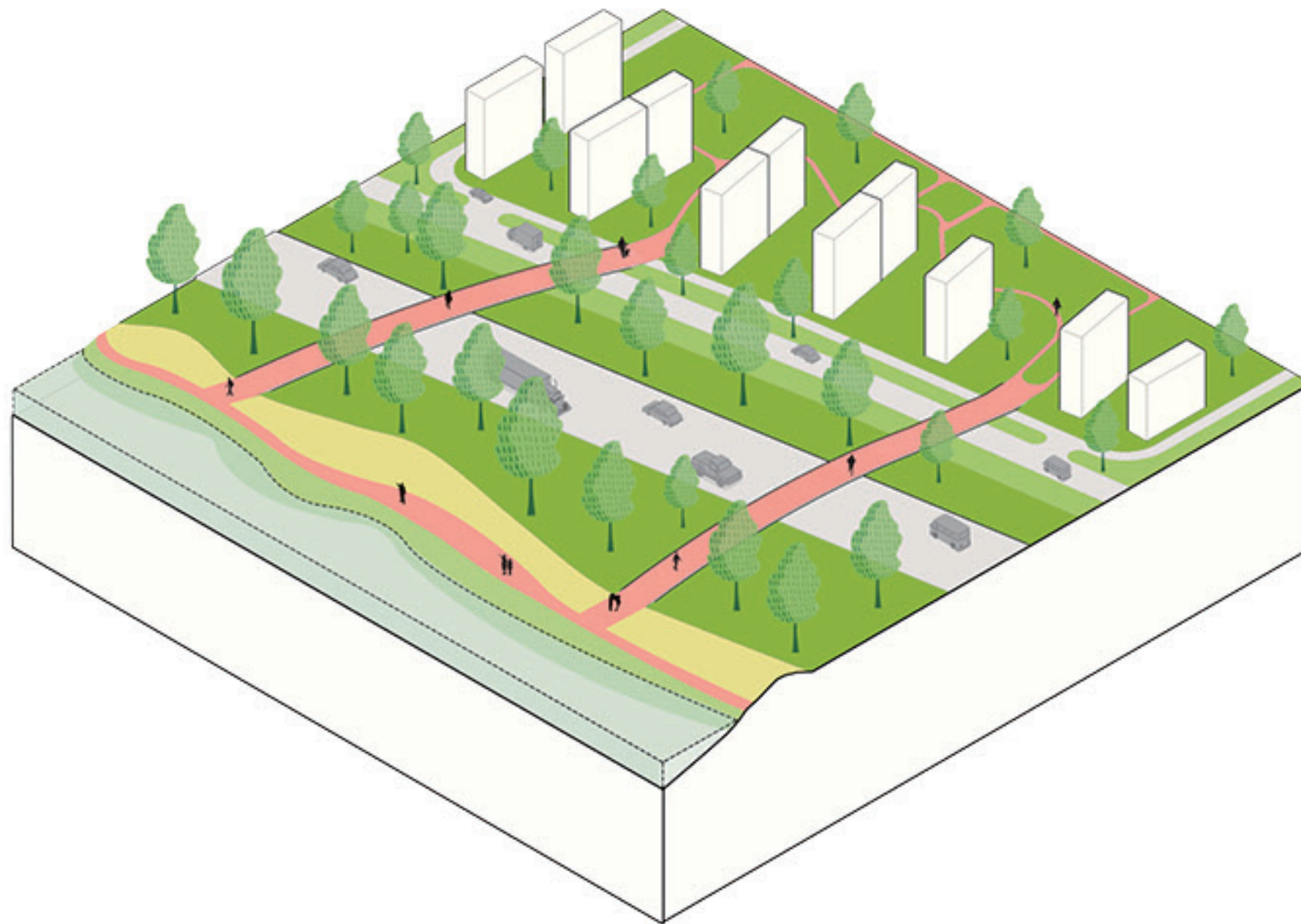


- 01:** Create connectivity by opening up the existing clogged water systems, promoting water flow, reducing river siltation, and decreasing ecological pollution.
- 02:** Eliminate disconnected water bodies, unify fragmented sections, ensuring the water surface area does not reduce but only increases.
- 03:** Widen certain narrow segments or remove bottlenecks in the river.
- 04:** Adapt to local conditions by connecting small fish ponds and water ponds, integrating "ponds" into "wetlands," thereby creating larger wetlands, ponds, swamps, etc., forming a countryside landscape interwoven with pits, ponds, and ridged fields, and also serving as "stepping stones" for wildlife to reach the green belt's wetlands and lakes.
- 05:** Add new wetlands, and transform the "stiff" waterfront of the pits and ponds into a "meandering" one, shifting from an "urban park" style to a "rural natural" appearance, and restoring the natural water edge morphology of the countryside.
- 06:** Dismantle the existing industrial plants and gradually restore them into diverse wetlands such as shrub wetlands, forest marshes, etc.
- 07:** Reconstruct the current vertical revetments to form ecological slopes, enriching the gradient of the riverbank landscape.

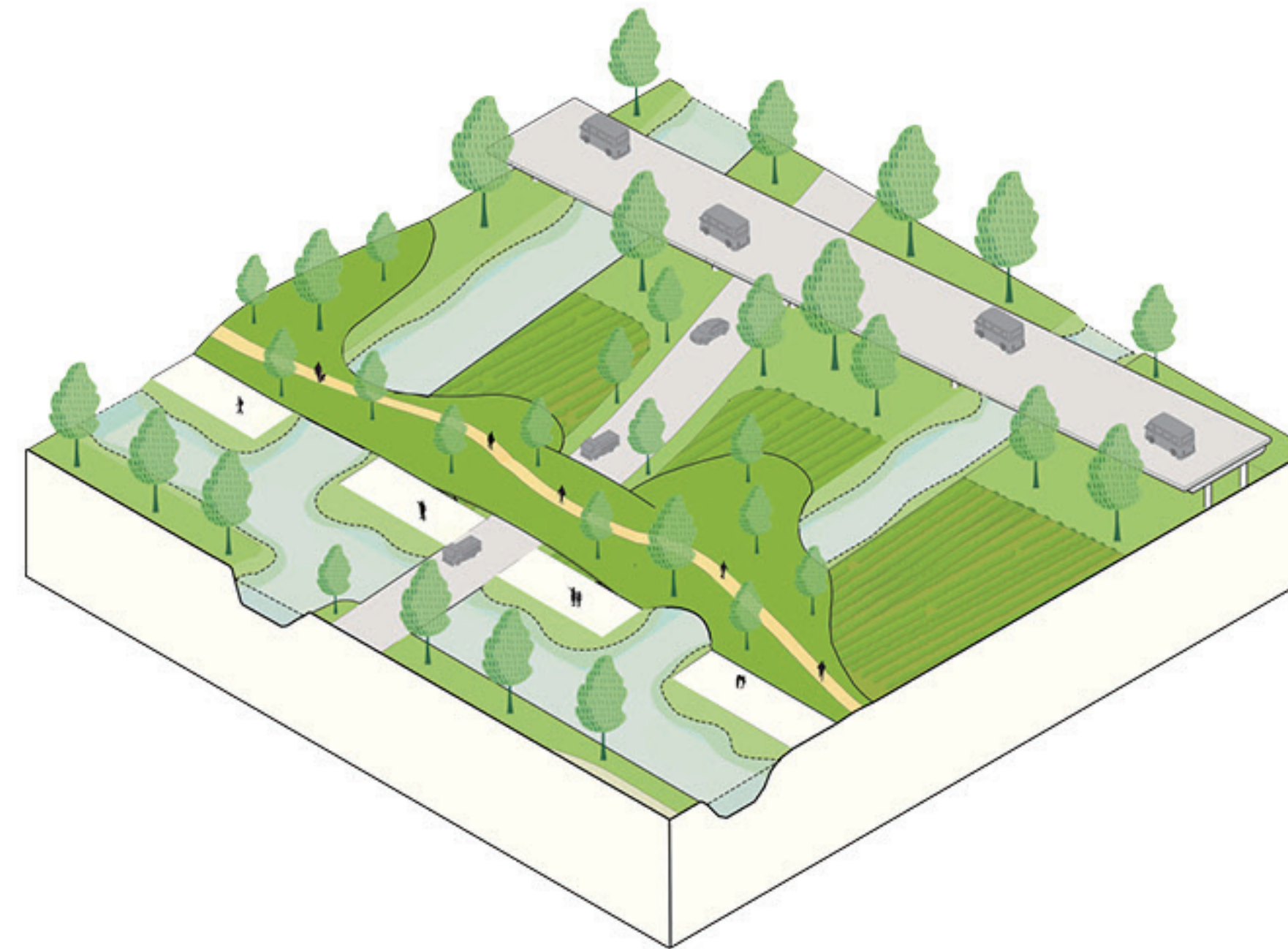
II. Cultivating Jiading's "Enlightenment Water Town" Ecological-cultural Landscape

Add pedestrian overpasses
To avoid through traffic crossing

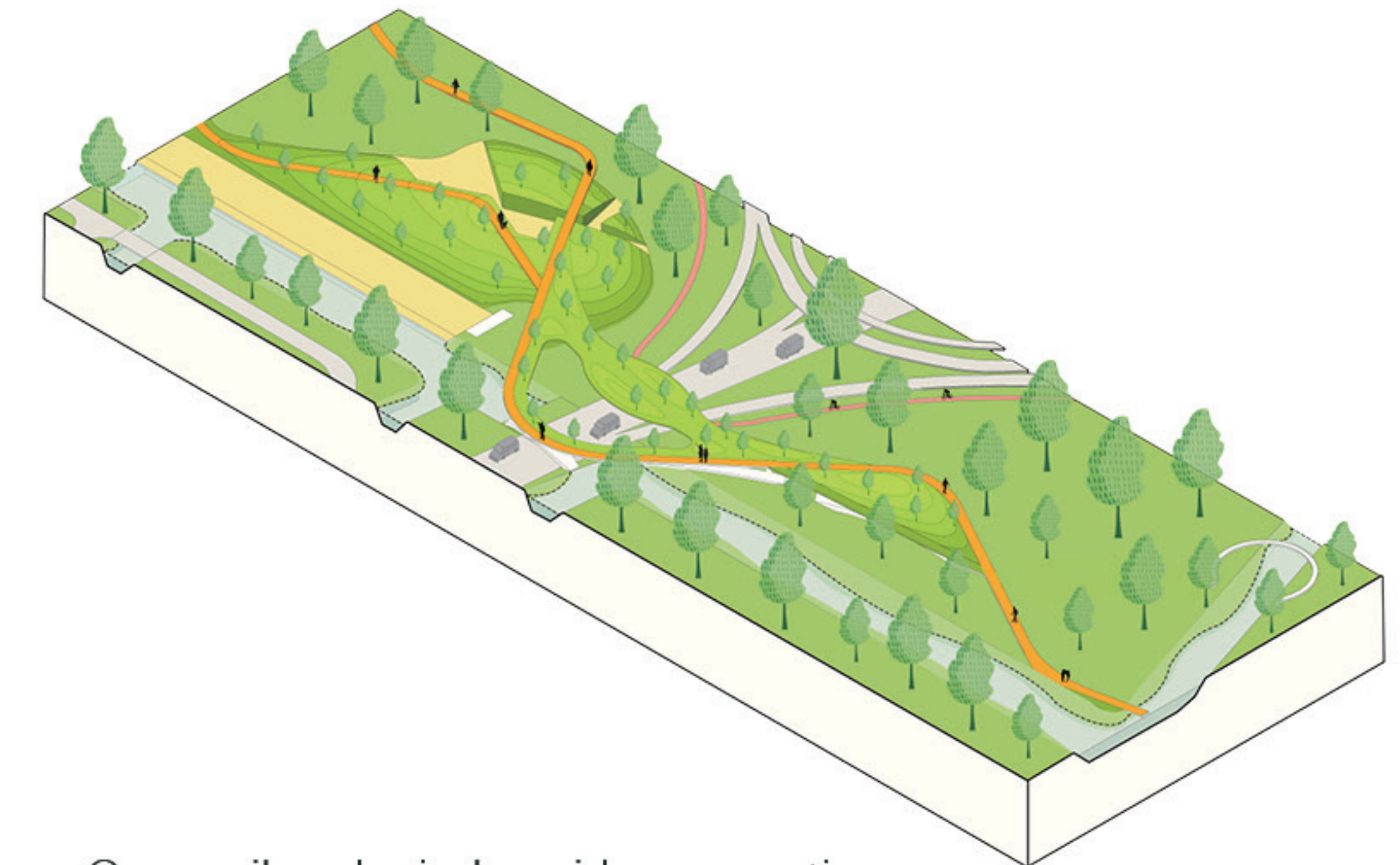
Road Connectivity——



Connect across activity spaces



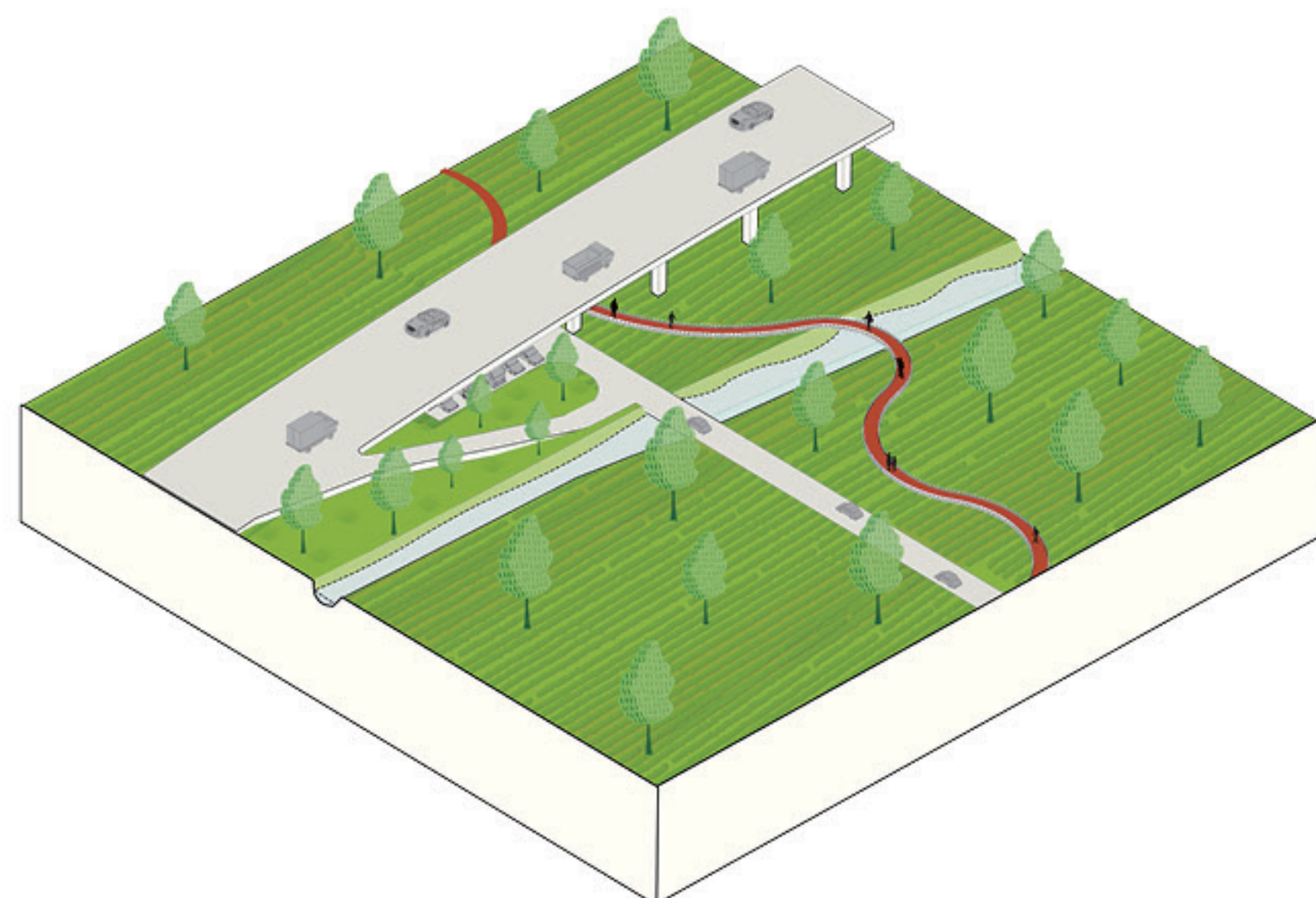
Micro-topography modification for connectivity



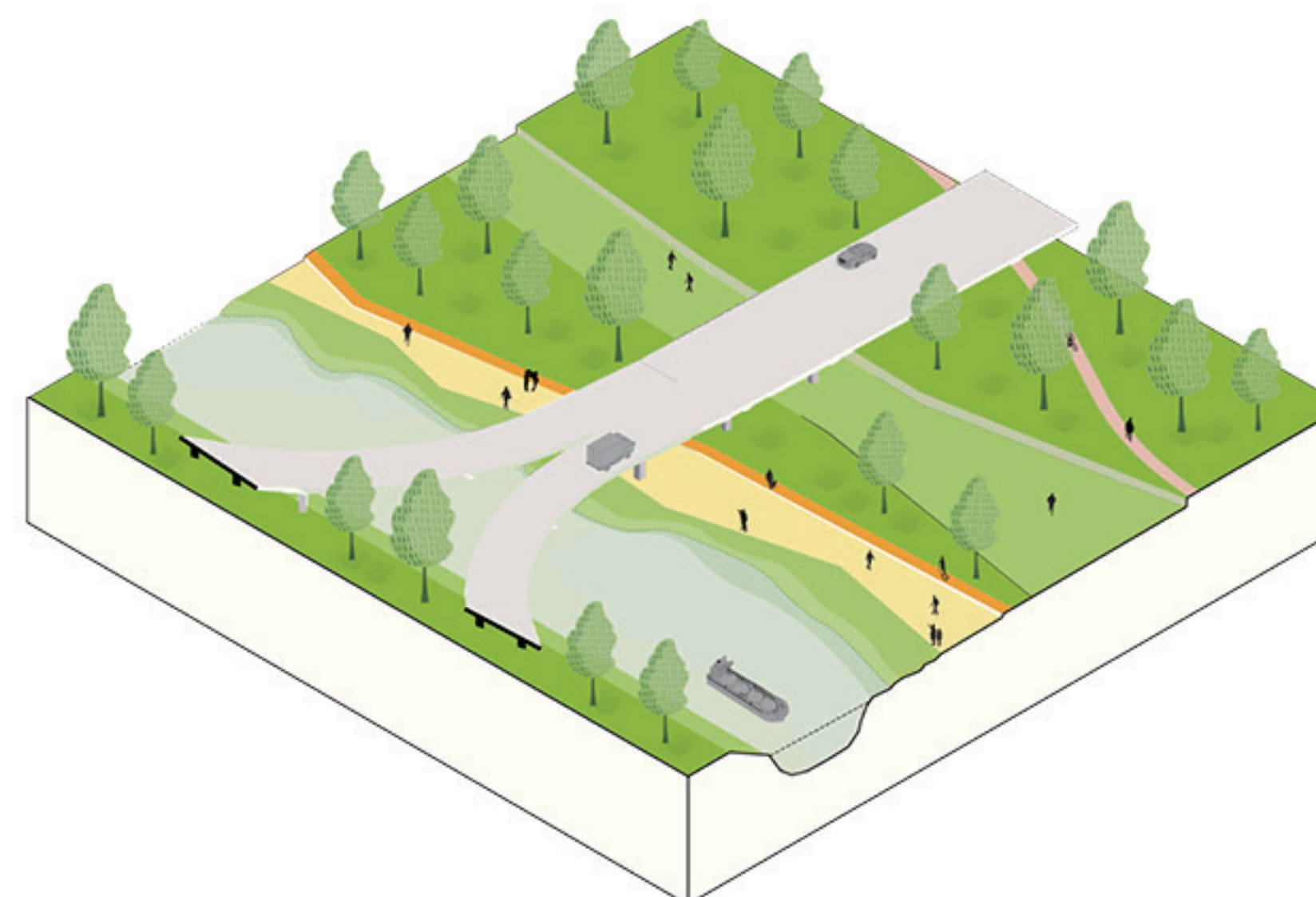
Over-soil ecological corridor connection

Increase greenway connectivity under viaducts
Ensure the integrity of the slow-moving experience

Highway crossing over the river
Riverside sunken greenway connectivity



Underpass connectivity beneath viaduct spaces



Underpass connectivity beneath waterfront spaces

On one hand, shaping the water town foundation. It undertakes a land consolidation of woodlands, fields, waterways, villages, and roads, integrating the fragmented ecological hubs and farmlands into a cohesive whole. On the other hand, enhancing water town vitality.

II. Cultivating Jiading's "Enlightenment Water Town" Ecological-cultural Landscape

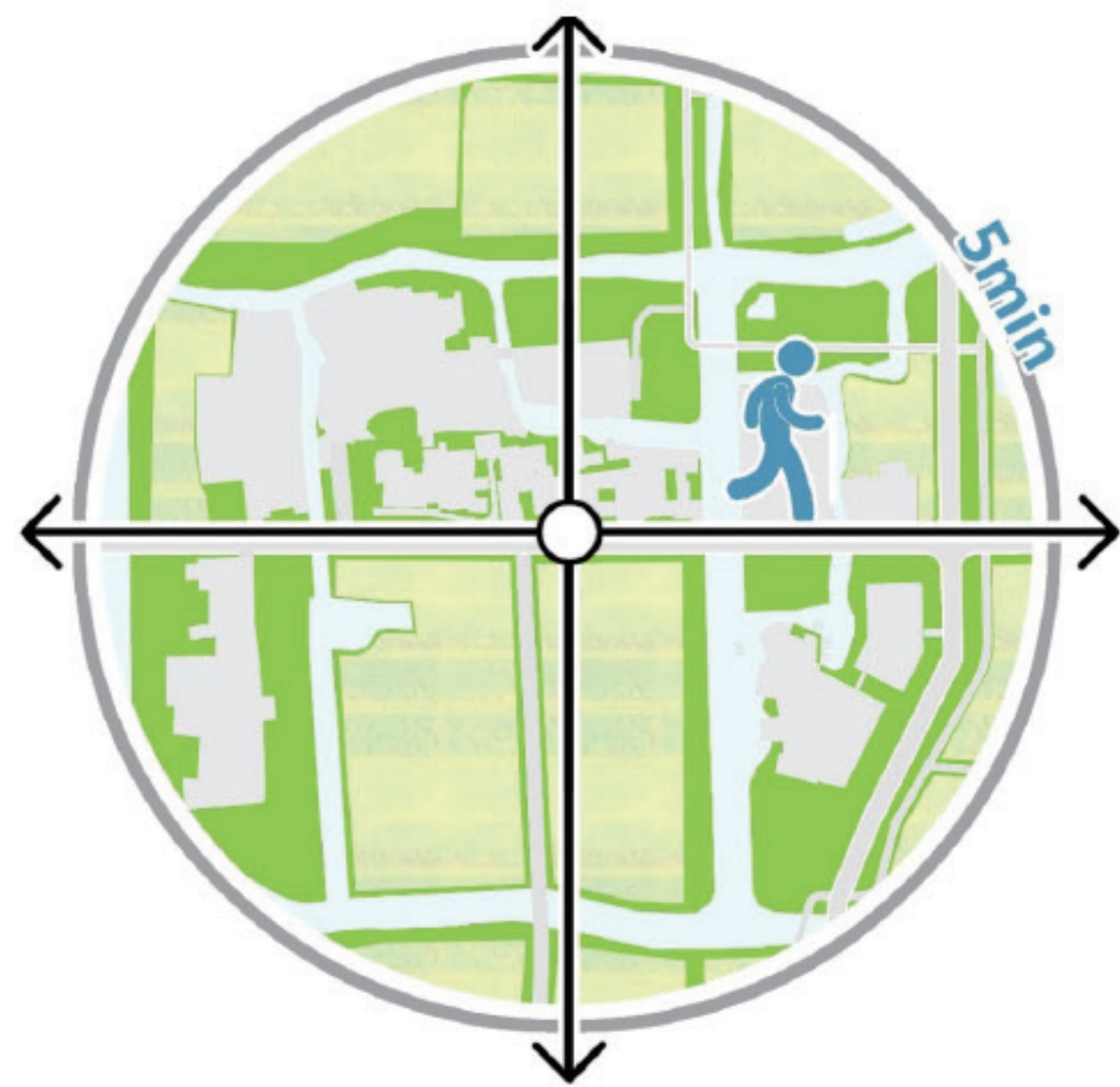
Taking the Shenhai Expressway (G15) and Liuxiang Highway as examples, pedestrian overpasses and greenway connections in spaces under bridges by the waterfront are added to break the barriers to slow-moving connectivity.

Road Connectivity——

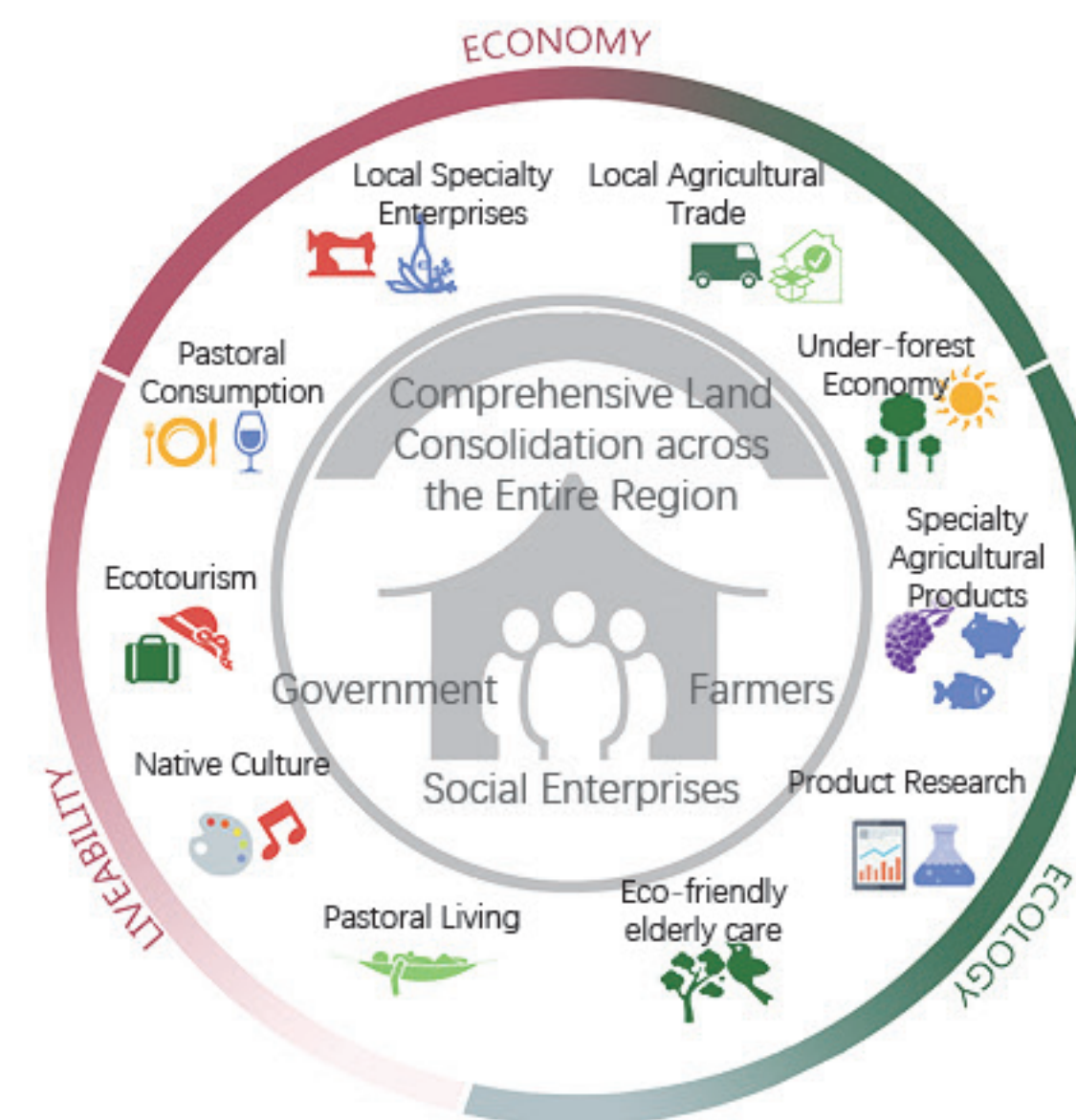


II. Cultivating Jiading's "Enlightenment Water Town" Ecological-cultural Landscape

It aims to elevate the vitality of the water town by establishing low-density, highly composite mixed-use clusters, which will help channel high-quality resources from the new town center into the green environment, fostering an open, interconnected, and vibrant eco-cultural landscape.



Walkable Living Circle

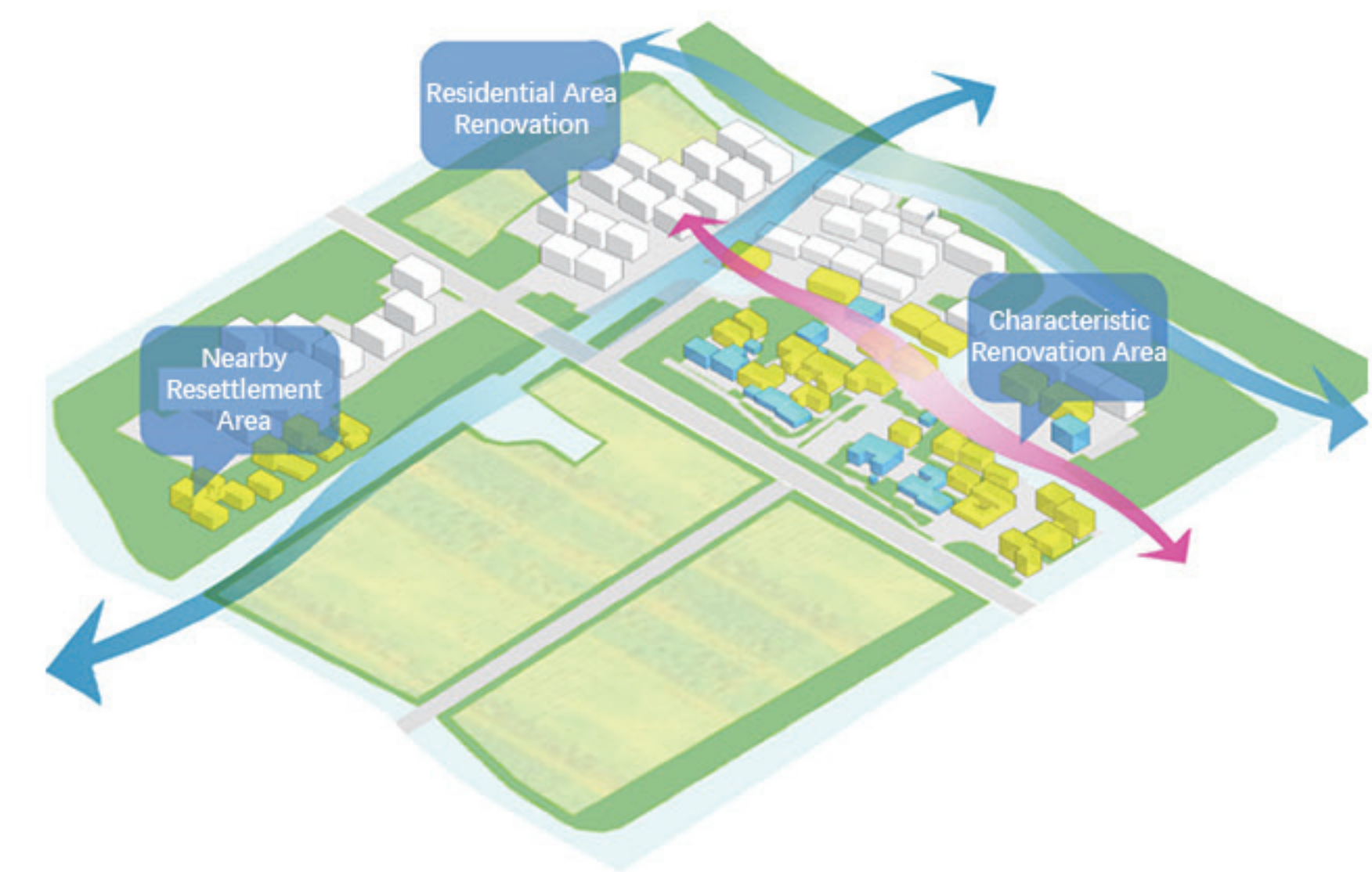


New Form of Rural Economy



Diverse and Composite Mixed-Use Functions

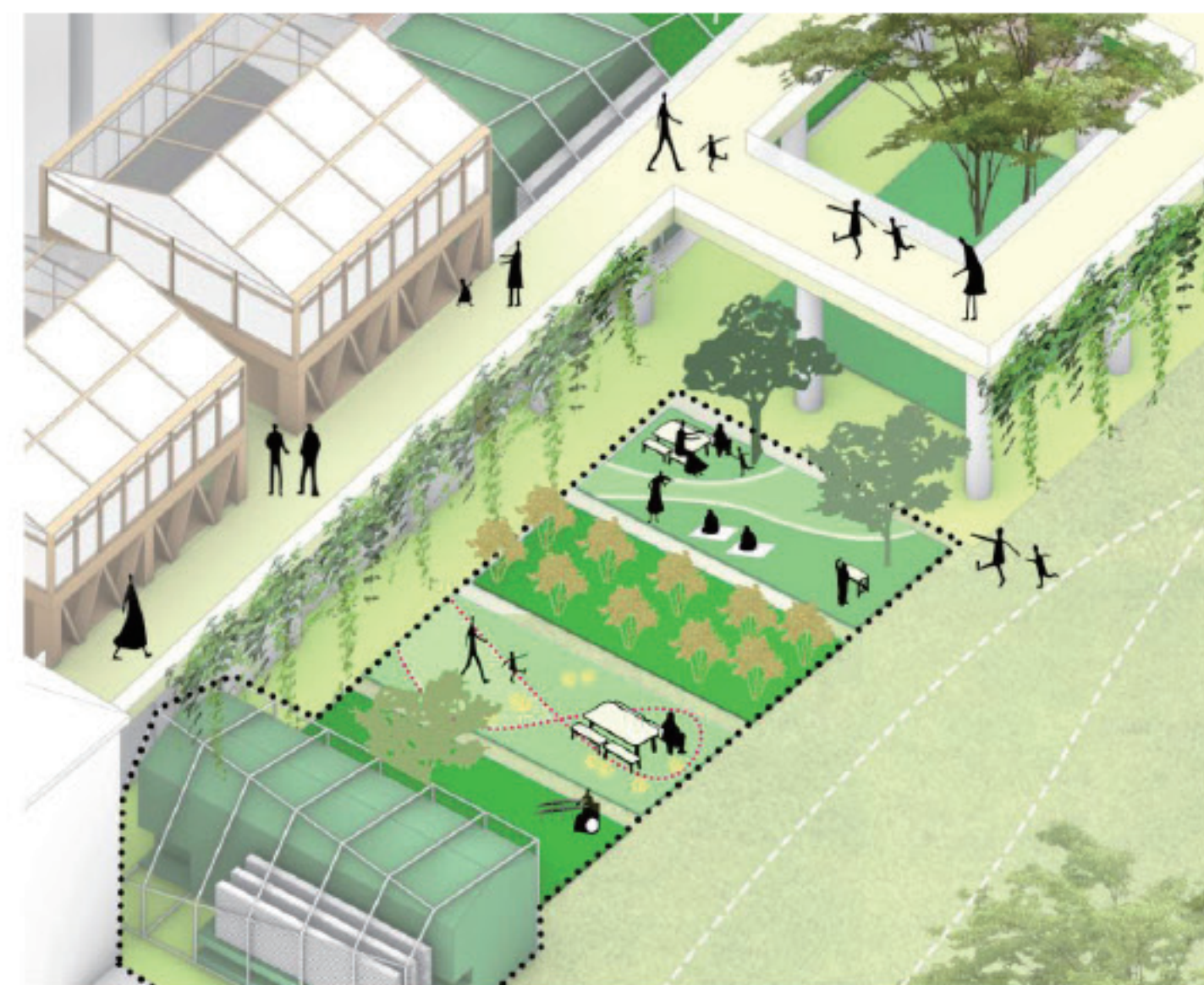
Village Revitalization——



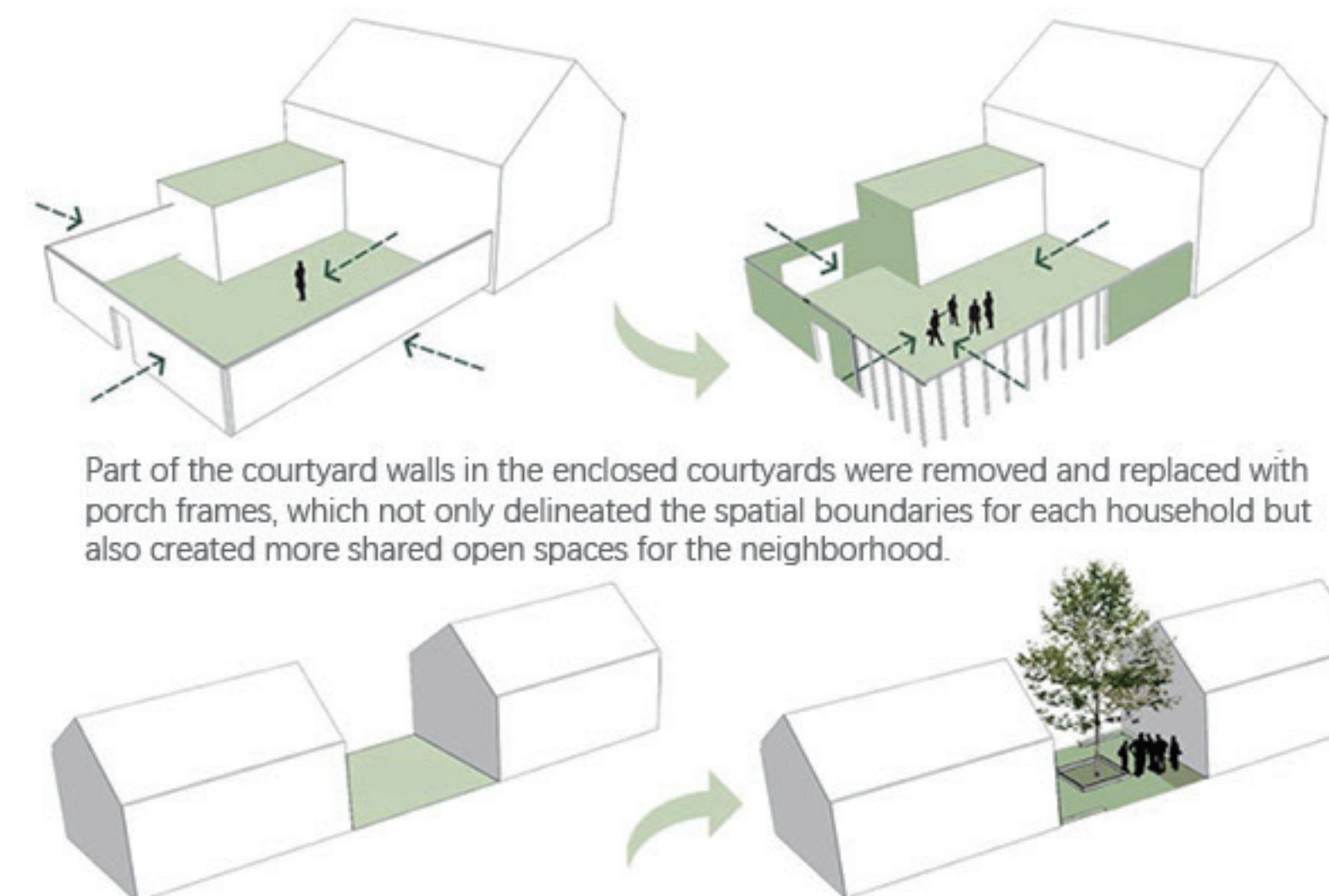
On-site and Nearby Resettlement



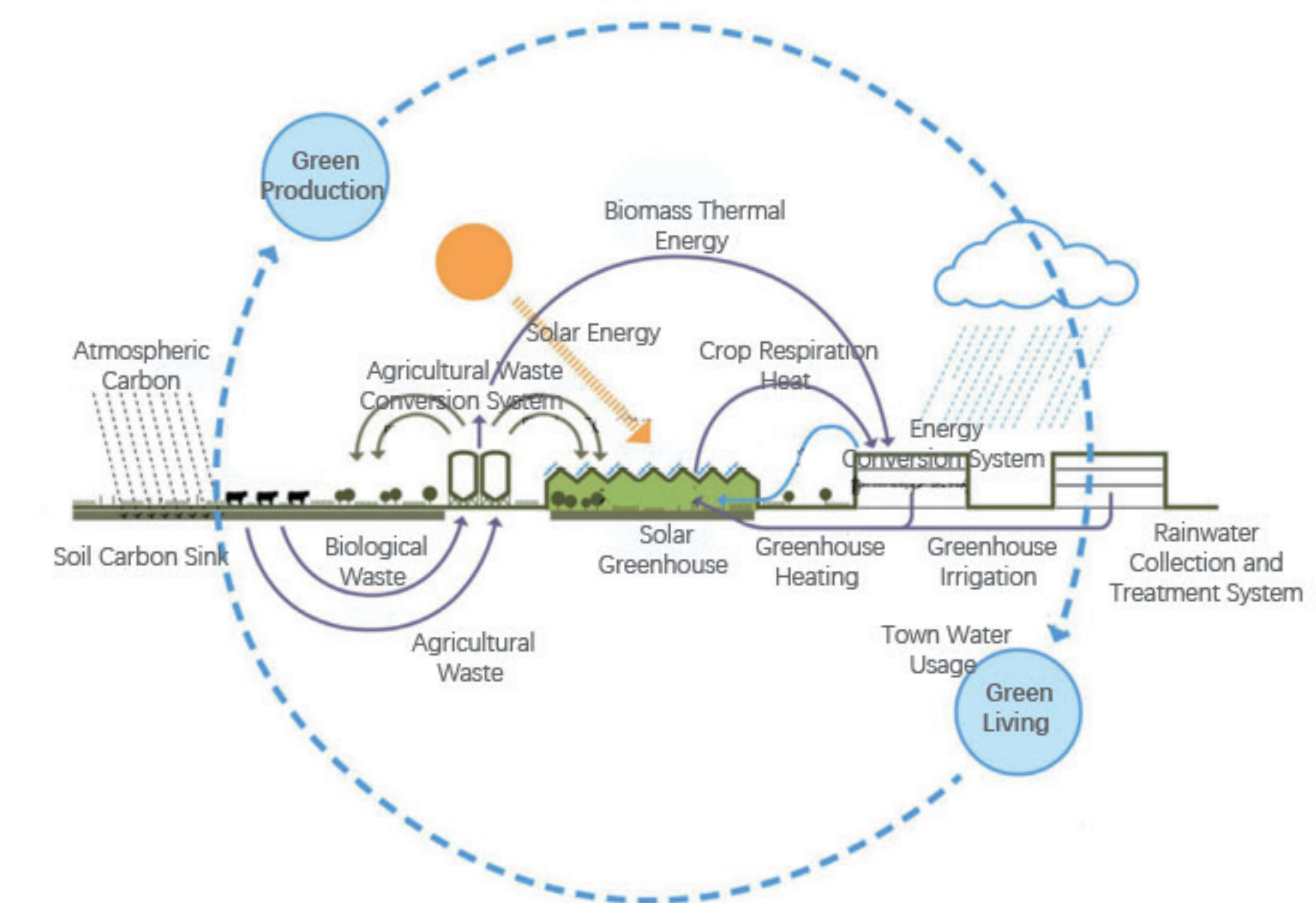
Integration with Nature



Renewal of Traditional Rural



Natural and Rustic Vernacular Architectural Styles



Sustainable Development Strategies

III. Shaping A Distinctive Landmark Image

Around Jiading's Enlightenment Water Town features, the planning creates a green environment as the imaging system of the city landmark. With the rural water town as the foundation, establishing a cultural station experience corridor and a waterfront open system, creating a distinctive landmark image with a paradise for fish and birds, a community gathering spaces, and a Peach Blossom Haven. Reproduce the ten scenic spots of Jiading, collectively shaping the regional cultural landscape charm of Jiading's green environment, making the green environment a nurturing gift for the soul.



III. Shaping A Distinctive Landmark Image



III. Shaping A Distinctive Landmark Image



Whale Rest Station

Urban Living Room

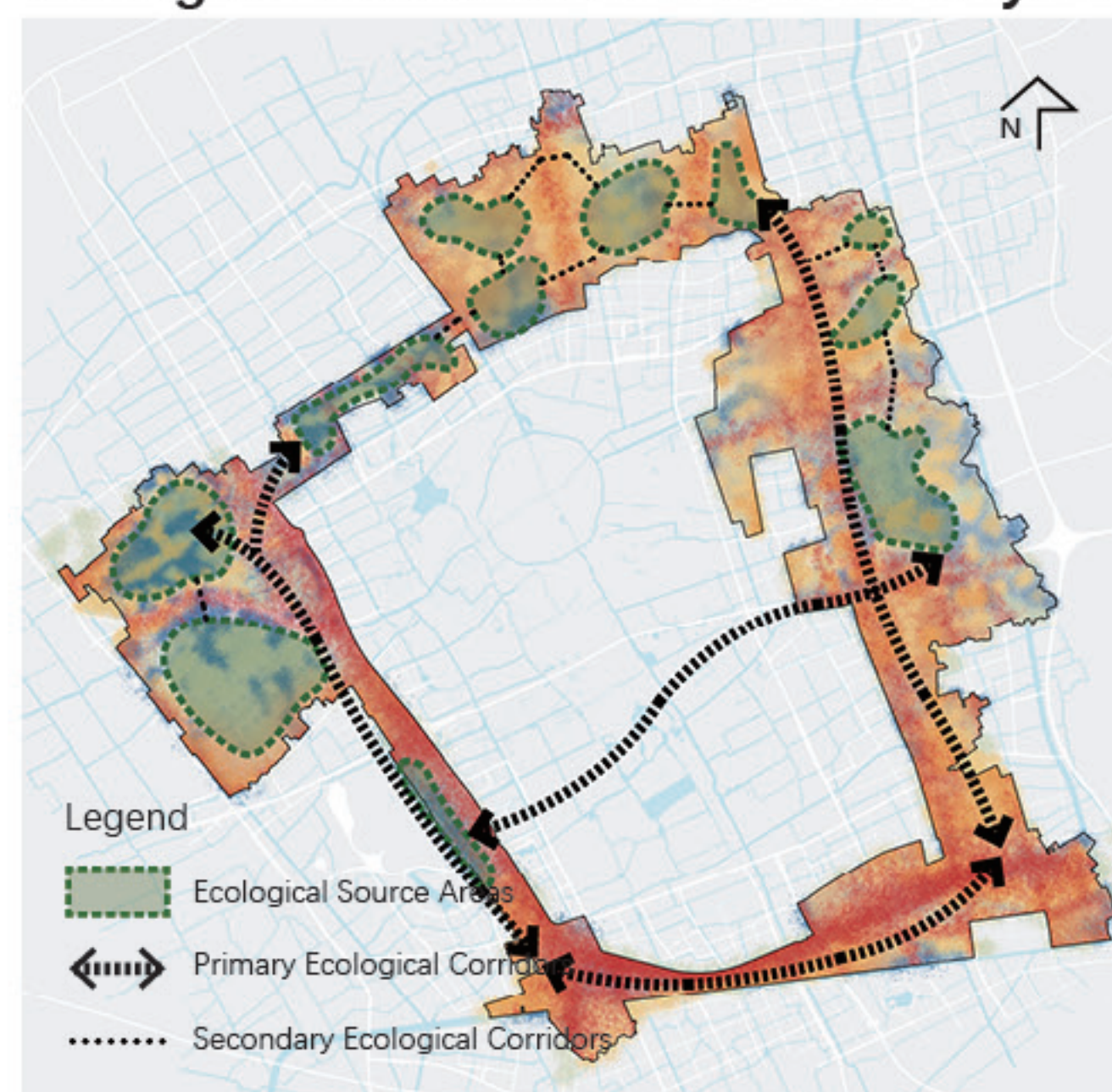
Waterfront Lounge Node

IV. Sustainable Technologies and Concepts

(1) The application of the flexible planning concept in the land consolidation and management model of the green environment: Establishing a robust platform for communication with public participation, deep involvement of social forces, and multi-stakeholder collaboration.

(2) The application of the ecological security pattern concept: Based on the analysis of the current ecological security pattern, promoting ecological function restoration through morphological restoration and structural optimization, and systematically constructing the ecological security pattern of the green environment.

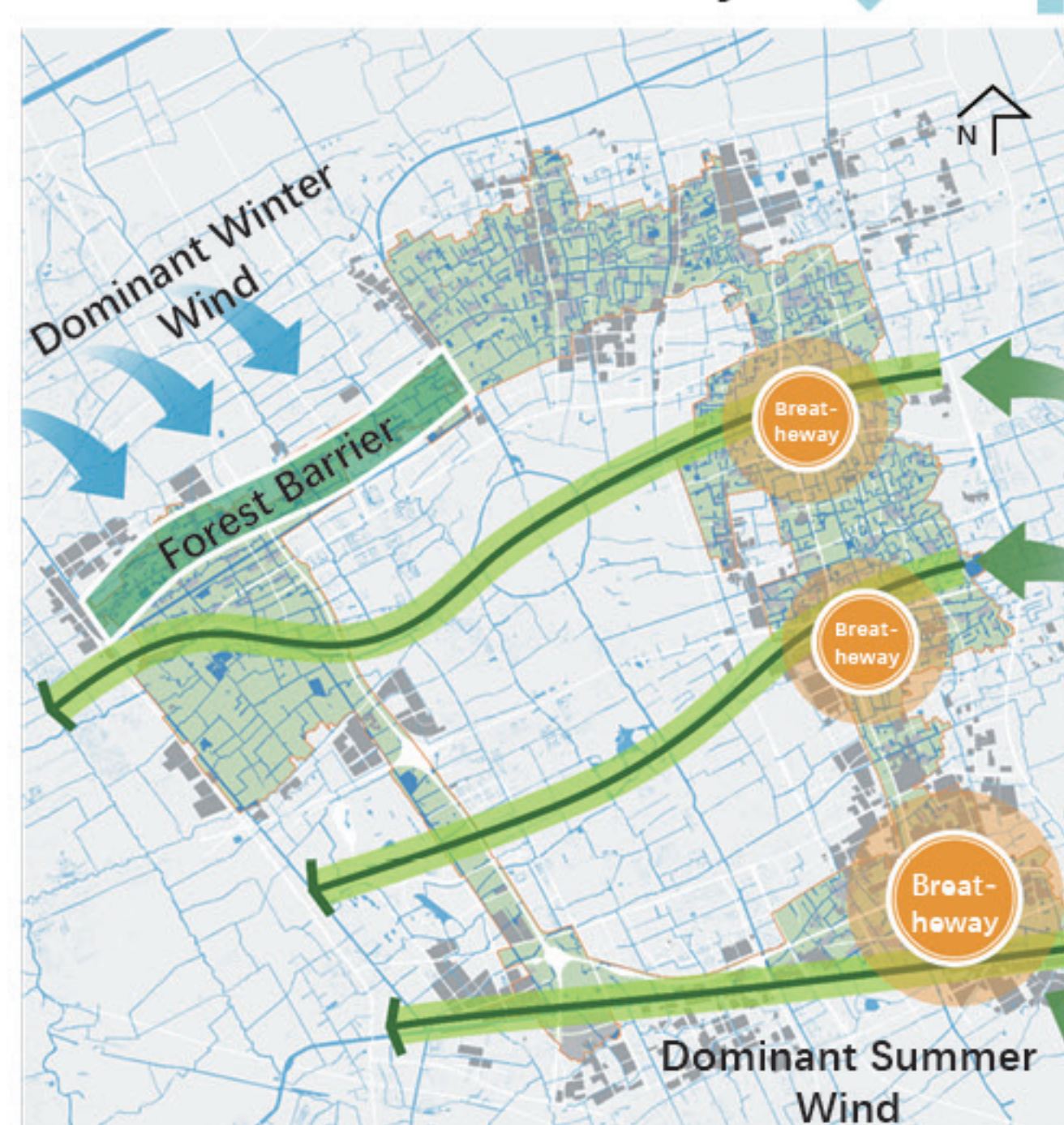
Current Ecological Source Areas and Ecological Resistance Corridor Analysis



Macro Ecological Corridor Pattern



Urban Wind Corridor Analysis



Urban Drainage Analysis

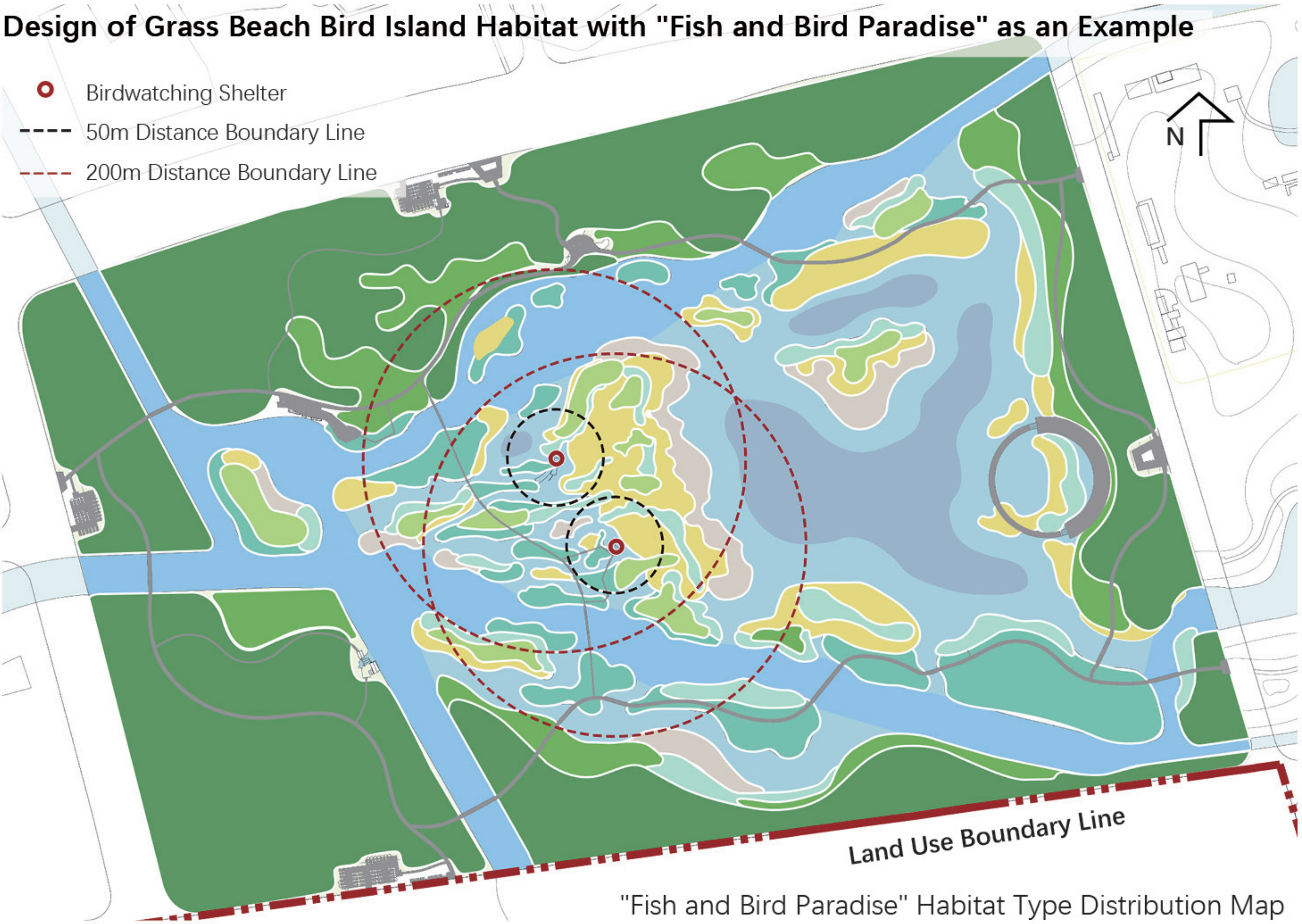


An ecological security pattern characterized by agricultural fields and river networks as the matrix, with orchards, wetlands, villages, etc., as patches, and interconnected by four vertical and four horizontal corridors.



Ecological Security Pattern Map

IV. Sustainable Technologies and Concepts



(3) The application of three-dimensional ecological agriculture and forestry technology: Based on the characteristics of local plant communities in the Jiading area, drawing inspiration from the Miyawaki method of afforestation and Permaculture concept, constructing a multi-level and three-dimensional agroforestry ecosystem.

Legend	Habitat Types	Features (Water Depth, Vegetation)	Targeting Species
	Outer Forest	Tree, shrub, and grass multi-layered plant communities with a canopy closure greater than 0.5	Tree-nesting birds (Nesting space)
	Forest Swamp Habitat	Aquatic trees in areas where the water depth is less than 0.5 meters	Wading birds (Nesting)
	Highland Shrubland	Branches are well-spaced, facilitating bird perching; predominantly berry-producing food source plants	Climbing birds, terrestrial birds, and songbirds (Habitat space)
	Shrub Grassland	Shrubland and grassland as the main vegetation type	Wading birds (Foraging)
	Tall Grass Wetland	In areas with water depths less than 0.3 meters, emergent plants such as reeds and cattails predominate	Wading birds (Habitat, foraging, nesting space)

Legend	Habitat Types	Features (Water Depth, Vegetation)	Targeting Species
	Low-grass mudflats	Water depth <0.3m, primarily planted with sedges and rushes in low grass meadows.	Geese and ducks (resting and foraging) and fish (spawning)
	Shallow flats habitat	Water depth <0.3m, the intertidal zone is abundant with benthic organisms and small fish.	Waders (habitat for resting and foraging)
	Shallow water habitat	Water depth 0.3 to 1m, mainly characterized by submerged vegetation.	Shorebirds, small swimming birds, and fish (foraging)
	Deep water habitat	Water depth 1 to 4m, with a sparse presence of submerged and floating plants.	Large swimming birds (nesting), diving birds (foraging), and fish (overwintering)
	Riverine habitat	Dominated by emergent and submerged plants.	Waders and fish (foraging and migratory feeding)

Typical Habitat Types	Water Depth	Functions	Scale (as a percentage of the total water area)
Shallow water habitats	0.3~1m	Provide overwintering habitats for geese and ducks	> 50% (winter)
Nearshore shallows, low grass mudflats, and tall grass wetlands	< 0.3m	Serve as foraging and roosting habitats for wading birds	≥ 25%
Deep water habitats	1~4m	Provide habitats for large migratory birds and fish species	< 20%

The initial system construction of the green ring of Jiading New Town in Shanghai will be completed by 2025. Once completed, it will become an important structural space in Shanghai's ecological network and serve as a crucial practical area for exploring new concepts and models of open space development in suburban and a demonstration area for low-carbon development. It will also contribute to the creation of a spatial pattern of Jiading New Town - one with interlaced blue and green spaces, embedded green plants in the urban, and urban-rural integration. The special planning for the green environment in Shanghai's five new towns was approved by the Shanghai Municipal People's Government in January 2023. The team has been following up with subsequent in-depth work on key sections. The results of the call for proposals are currently being integrated and further developed by a professional team in Shanghai. As a result, the implementation phase of Shanghai's new town green environment has commenced.

