

PROJECT TITLE

HEALING AND ECO-FRIENDLY HEALTHY TALENT CIRCLE

—— Planning for Guiyang Big Data Sci-Tech Innovation City, Gui'an New Area, China

PROJECT INTRODUCTION

In order to create a cluster of innovative talents and a demonstration zone of ecological civilization, the planning introduces a Healthy Talent Circle to achieve low-impact ecological development and meet the health needs of innovative people of different ages. In terms of functional embedment, it integrates multiple types of parks around the Healthy Talent Circle, including big data parks, cultural parks, theme parks, community parks and street green space, to create diverse and healing spatial scenarios. In terms of landscape design, in conjunction with local government, water environment experts and ecology experts, the landscape architects draw on sponge city construction to realize low-impact development and create an eco-friendly green park belt. In terms of management model, it leverages the role of talent circles as a health guideline, achieving sustainable environmental operation through speed limit of private cars and one-way transit of public transportation.

PROJECT DESCRIPTION

1. Background

The project is located in the core urban area of Gui'an New Area in Guizhou Province, with a planning area of 6 square kilometers. As a major region for the national big data strategic initiative, it has a sound basis in the digital industry and digital talents. Because of the developed river system, 90% of the land here lies upstream of the water conservation area. Moreover, it is home to a rich mix of ethnic cultures, represented by the Tunpu culture.

With flat terrain, local hills and abundant water resources, the project site and its surrounding areas provide a favorable natural environment for the clustering of digital talents.

2. There are two main challenges in building an important space carrier around health for innovative talent gathering, digital scenario display and ecological civilization demonstration:

1) Demand for a healthy development model.

The base is located upstream of Huaxi Reservoir, a source of drinking water, implying the importance of water source protection and surface source pollution prevention. The base is densely networked with water, and extensive urban construction has led to a series of problems, including the destruction of runoff gathering channels, the leveling of potholes and depressions, and the reduction of final storage space for rainwater. In order to maintain the background functions of local ecology and enhance the vitality of the urban environment, it is expected to find feasible solutions for those problems.

2) Demand for healthy living scenarios.

According to relevant surveys, 75% of the population suffers from subhealth, which in a way impairs their mental vitality and adaptability. Through surveys and interviews, innovative people in Guizhou were found to work long hours and suffer great pressure. As a result, they desire to relax in green interactive spaces or through convenient leisure facilities. These are crucial to sustaining innovation vitality in the region and work inspiration for the talents.

PROJECT DESCRIPTION

3. Design Strategy: Creating a healing and eco-friendly urban public space based on a 10km talent circle and parkland.

1) Creating an innovative talent circle.

Integrating scenes of big data display, leisure and fitness, cultural exhibition, gaming experience and creative lectures into big data park, cultural park, theme park, community park and street green space, to create diverse green interactive spaces for the residents to ease their stress and anxiety.

2) Building an operable health model.

Encouraging green travel habits such as walking and cycling to promote residents' willingness for physical activity; encouraging one-way transit of public transportation and enhancing overlap between commuter routes and public space nodes to provide residents with sensory relief from work stress; reducing speed of motor vehicles to 24km/h to achieve sustainable environmental operations.

3) Forming an ecological and low-carbon development model.

Connecting blue and green space with talent circles and restoring space for water channels to build an ecologically resilient city; controlling rainwater runoff and pollution from three aspects, i.e. source, migration and gathering, by building green roofs, permeable pavements, bioretention facilities, rainwater gardens and shallow vegetation ditches, to realize systematic integration of urban "blue, green and gray" infrastructure.

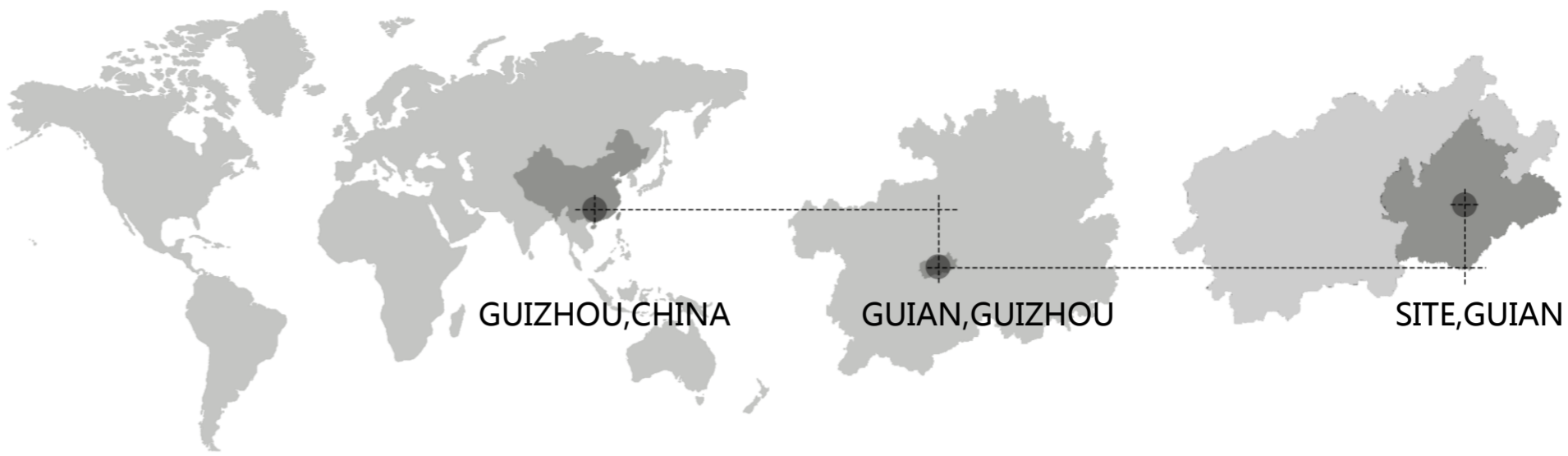
4. Project Implementation:

Formulating a phased construction model, starting with big data park to reduce pre-development costs and increase social benefits; advocating functional building by stages, constructing the park ring in the order of ecological construction, main function embedding and application scenario upgrading; enhancing the Sci-Tech Innovation City's ability to gather and attract talents through the planning and construction of talent circles, realizing the employment of about 10,000 people, introducing 456 enterprises, and increasing the proportion of digital economy industry in Gui'an New Area by 1%; boosting the construction of internal parks, with Moon Lake Park accommodating 40,000 visitors a day.

1. Background

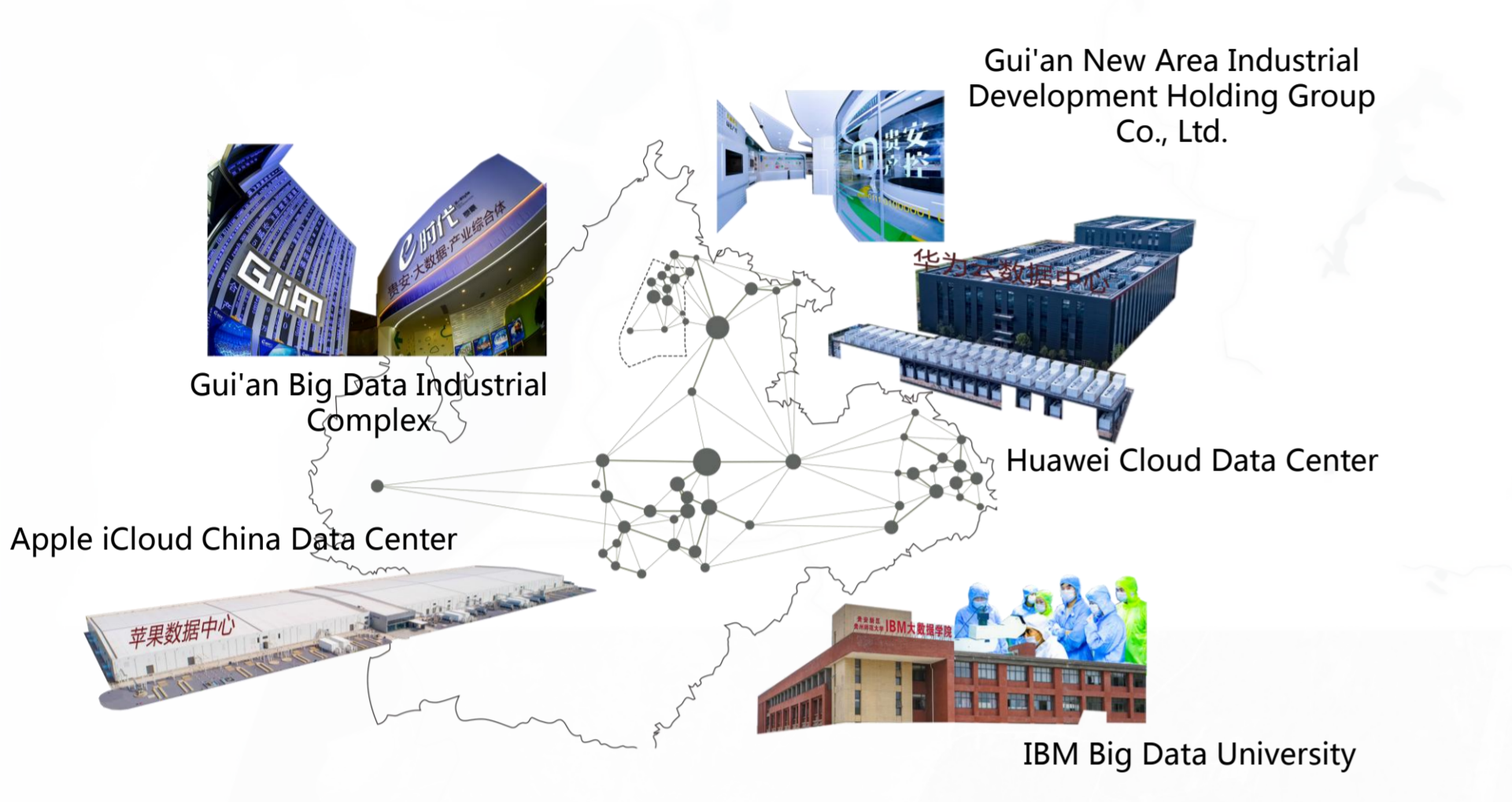
1.1 Location

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1.2 Present feature

1.2.1 Digital industry and digital talents



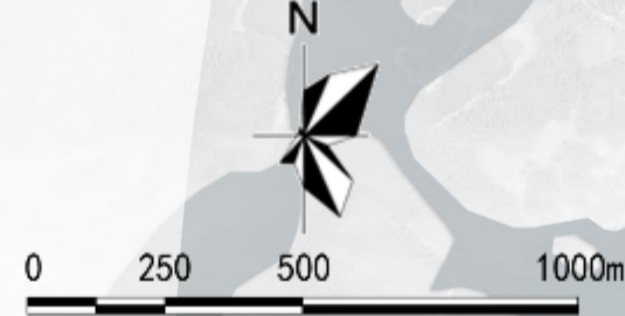
1.2.2 A rich mix of ethnic cultures



1.2.3 Developed river system



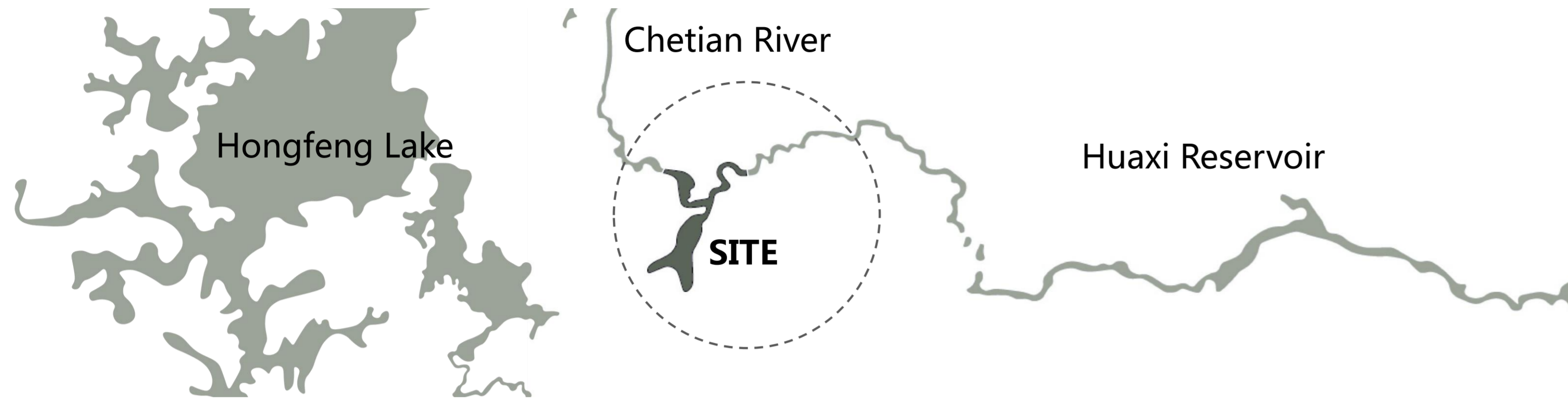
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2. There are two main challenges in building an important space carrier around health for innovative talent gathering, digital scenario display and ecological civilization demonstration:

2.1 Demand for a healthy development model

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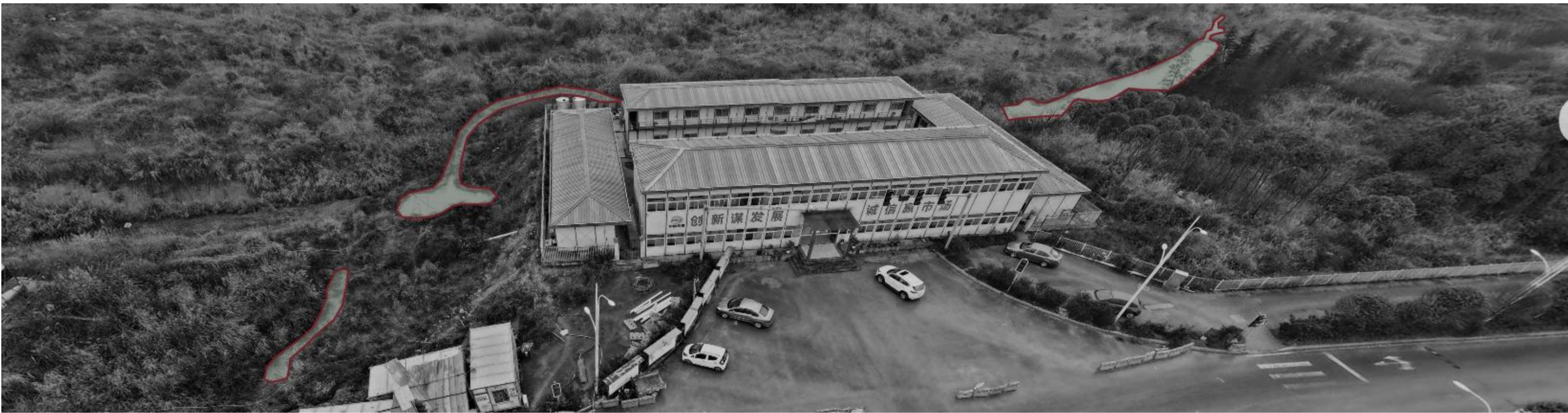
Before ecological damage



After ecological damage



Destruction of runoff gathering channels



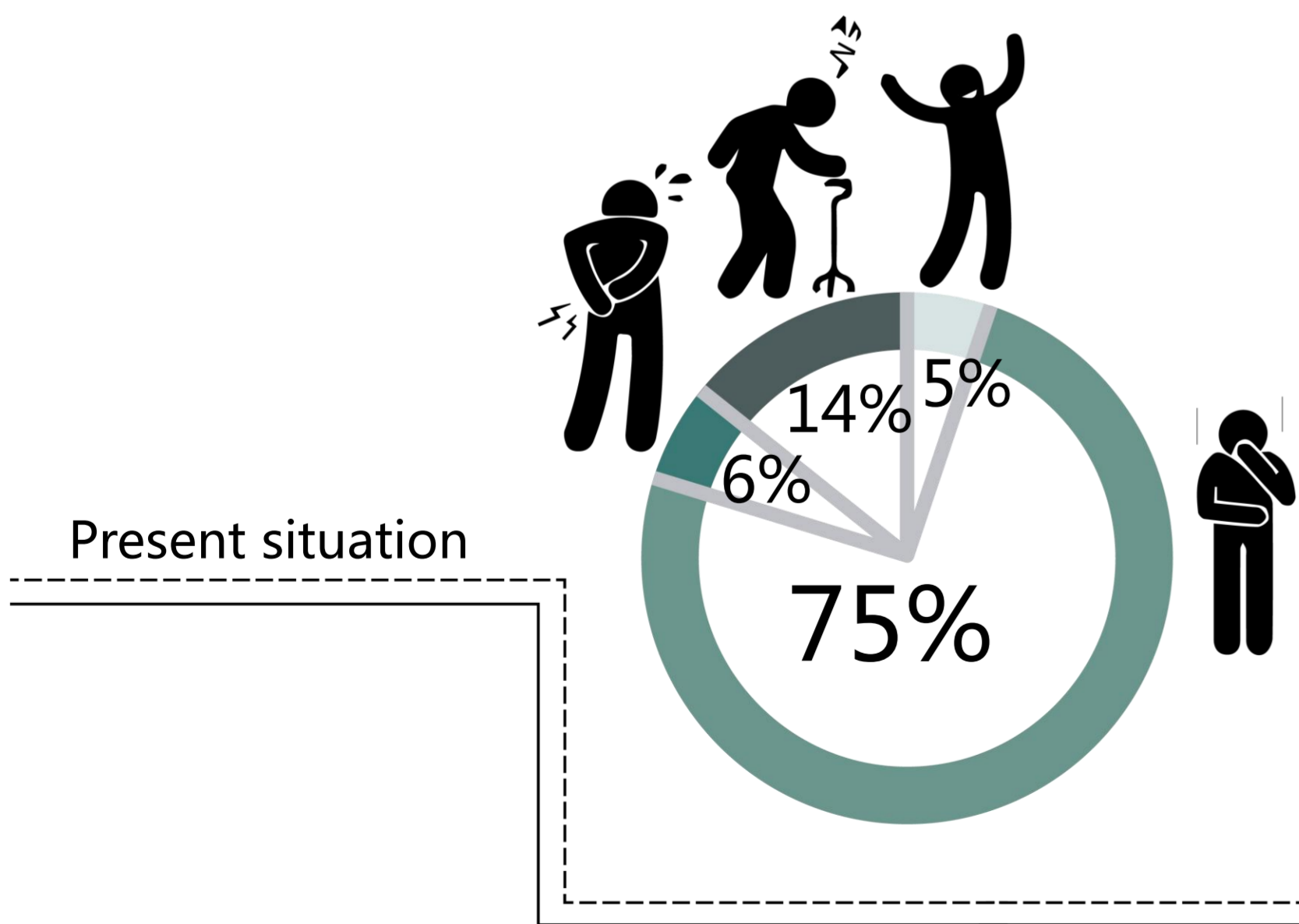
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2.2 Demand for healthy living scenarios

Health status According to relevant surveys, 75% of the population suffers from subhealth, which in a way impairs their mental vitality and adaptability.

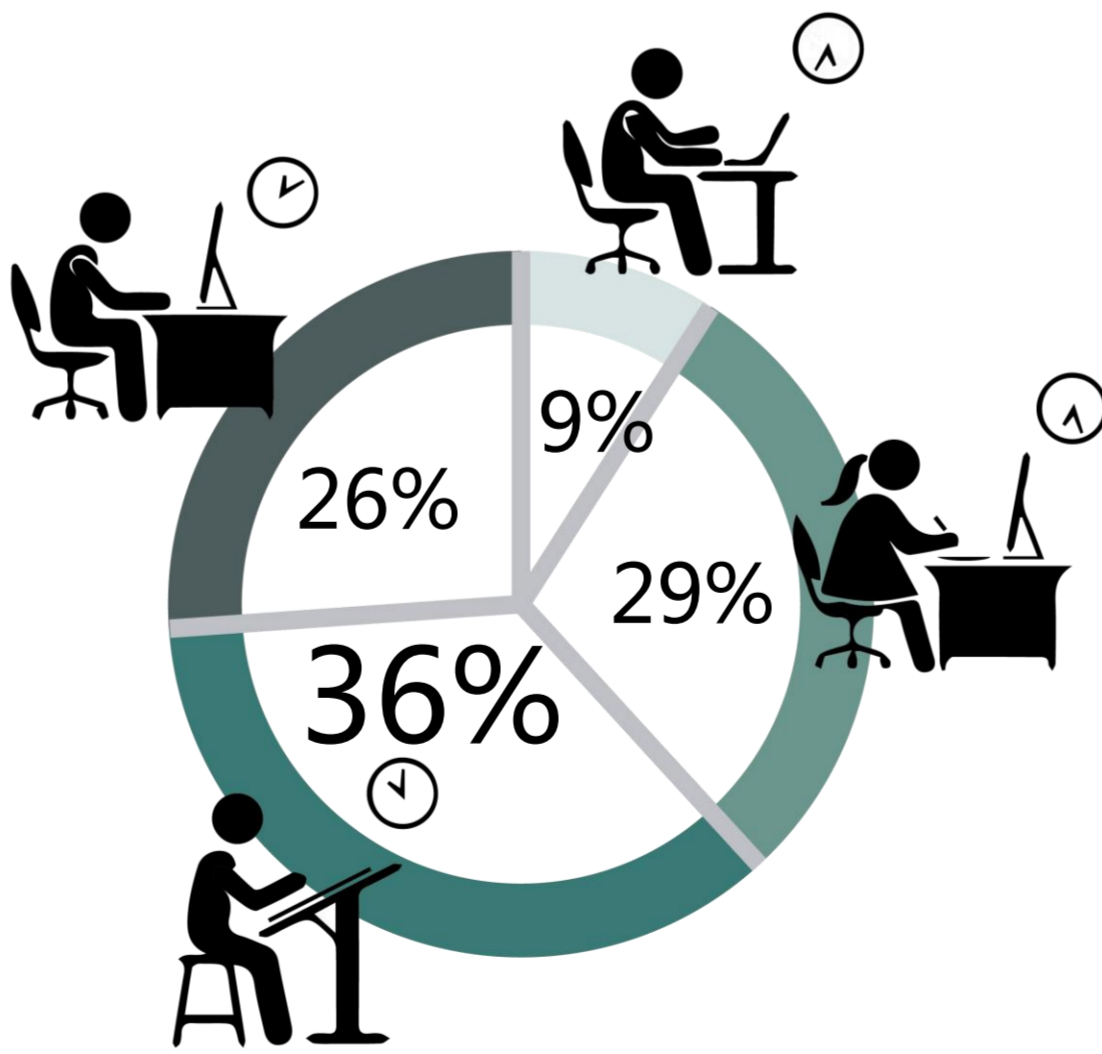
Overtime duration Through surveys and interviews, innovative people in Guizhou were found to work long hours and suffer great pressure.

Population needs As a result, they desire to relax in green interactive space or through convenient leisure facilities.



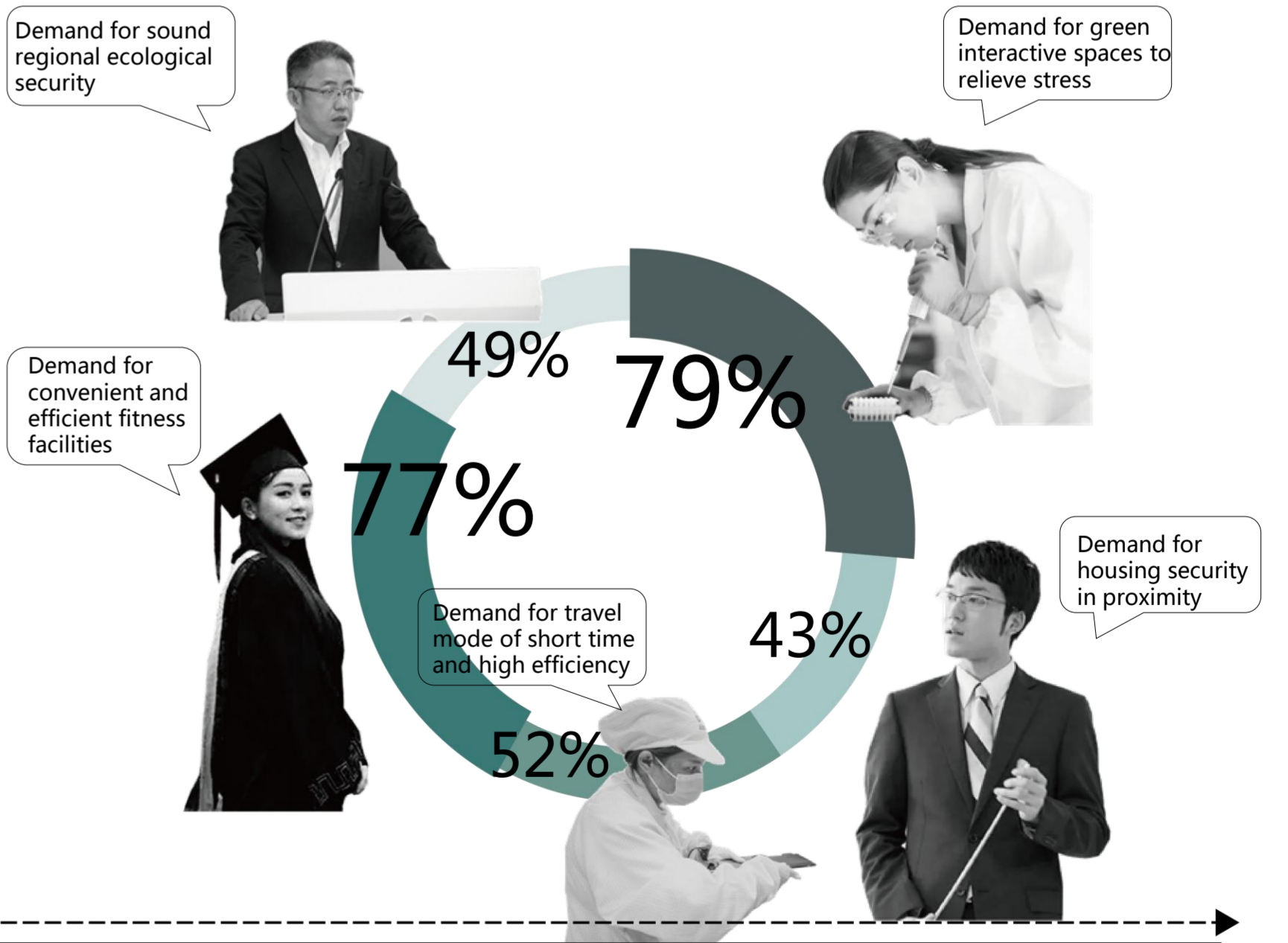
Health status	5%
Sub-health status	75%
Disease status	6%
Precursor state of disease	14%

Causes



Less than 10 hours	9%
10-20 hours	29%
20-30 hours	36%
Over 30 hours	26%

Needs

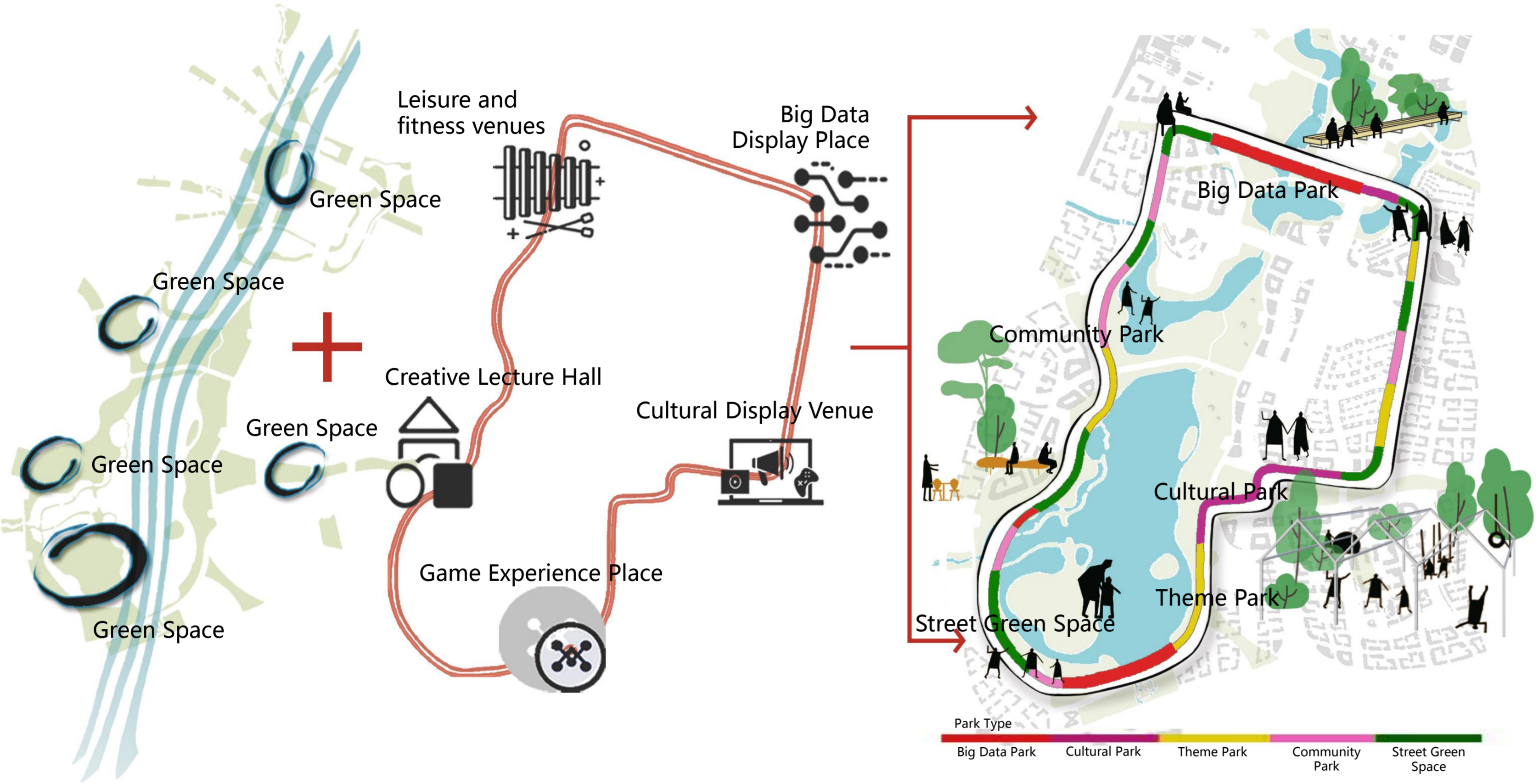


Demand for sound regional ecological security	49%
Demand for housing security in proximity	43%
Demand for travel mode of short time and high efficiency	52%
Demand for convenient and efficient fitness facilities	77%
Demand for green interactive space to relieve stress	79%

3.Design Strategy: Creating a healing and eco-friendly urban public space based on a 10km talent circle and parkland

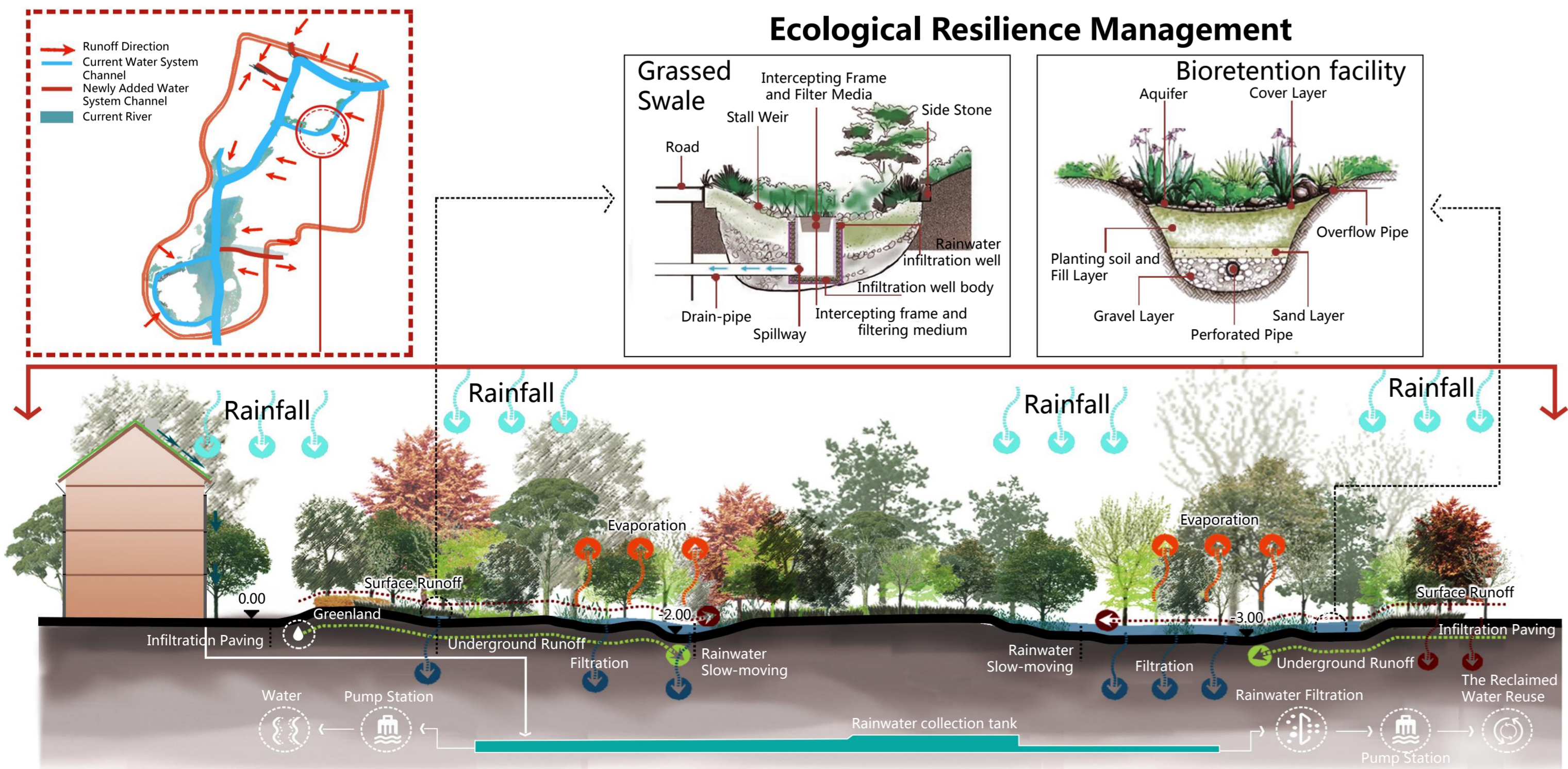
3.1Creating an innovative talent circle

Integrating scenes of big data display, leisure and fitness, cultural exhibition, gaming experience and creative lectures into big data park, cultural park, theme park, community park and street green space, to create diverse green interactive space for the residents to ease their stress and anxiety.



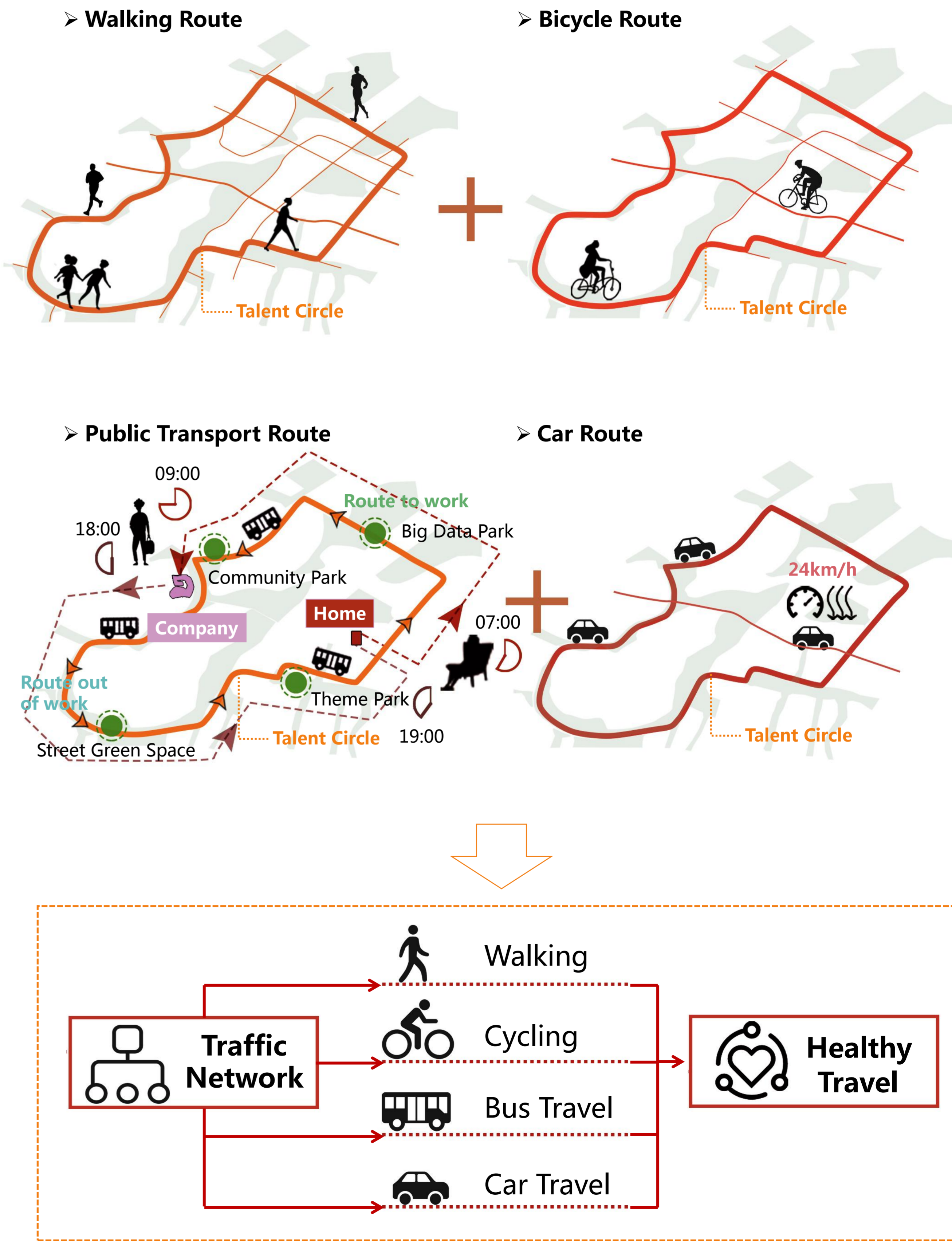
3.3Forming an ecological and low-carbon development model

Connecting blue and green spaces with talent circles and restoring space for water channels to build an ecologically resilient city; controlling rainwater runoff and pollution from three aspects, i.e. source, migration and gathering, by building green roofs, permeable pavements, bioretention facilities, rainwater gardens and shallow vegetation ditches, to realize systematic integration of urban "blue, green and gray" infrastructure.

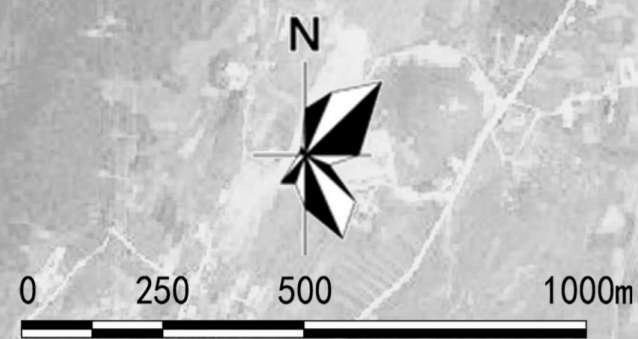


3.2Building an operable health model

Encouraging green travel habits such as walking and cycling to promote residents' willingness for physical activity; encouraging one-way transit of public transportation and enhancing overlap between commuter routes and public space nodes to provide residents with sensory relief from work stress; reducing speed of motor vehicles to 24km/h to achieve sustainable environmental operations.



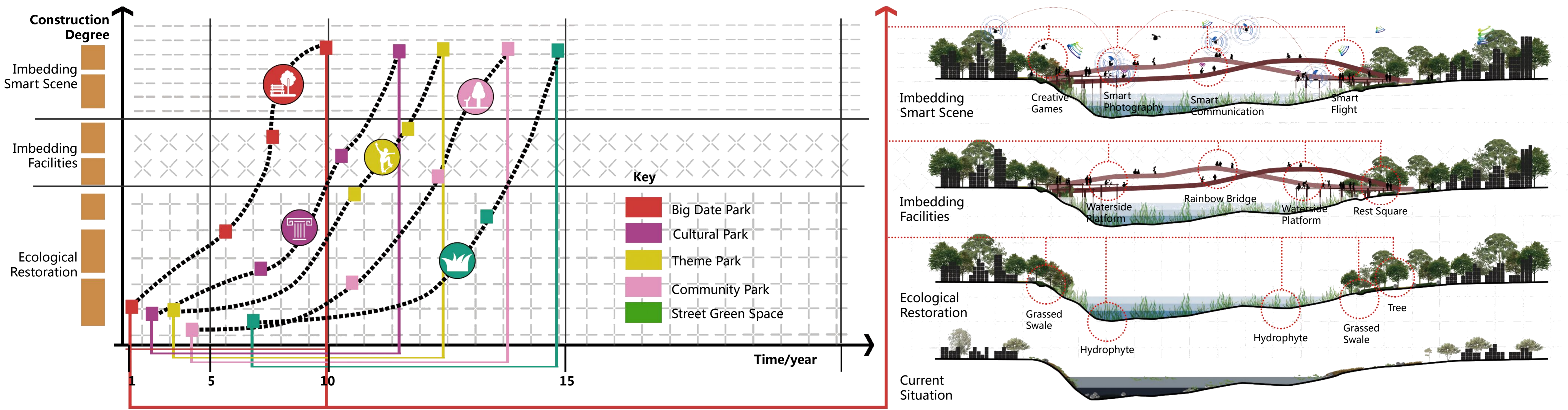
Master Plan



- Key**
- Cycling Route
 - Slow Walking Trail
 - Greening Space
 - Water Space
 - Landscape Square
 - Important Functional Buildings
 - Important Node Space

4.Project Implementation

4.1Formulating a phased construction model, starting with big date parks to reduce pre-development costs and increase social benefits; advocating functional building by stages, constructing the park ring in the order of ecological construction, main function embedding and application scenario upgrading.



4.2Enhancing the Sci-Tech Innovation City's ability to gather and attract talents through the planning and construction of talent circles, realizing the employment of about 10,000 people, introducing 456 enterprises, and increasing the proportion of digital economy industry in Gui'an New Area by 1%; boosting the construction of internal parks, with Moon Lake Park accommodating 40,000 visitors a day.

Creating a healing and eco-friendly urban public space based on a 10km talent circle and parkland



➤Talent circle: Creating a rich and varied scene space using ecological resources and smart technologies, and shaping a healing and eco-friendly urban public space with the concept of ecological sustainable development.

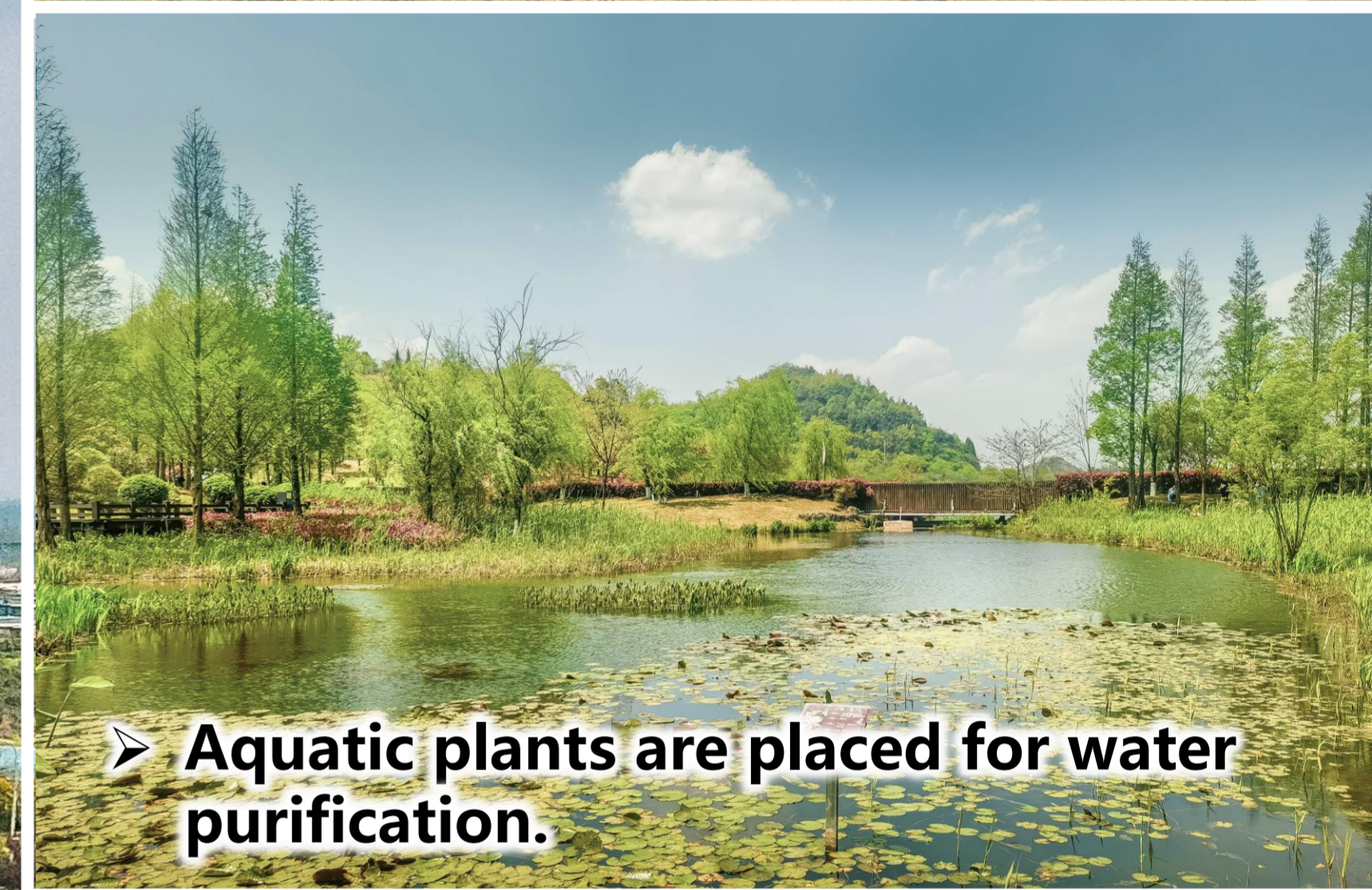
Creating a healing and eco-friendly urban public space ——Forming an ecological and low-carbon development model



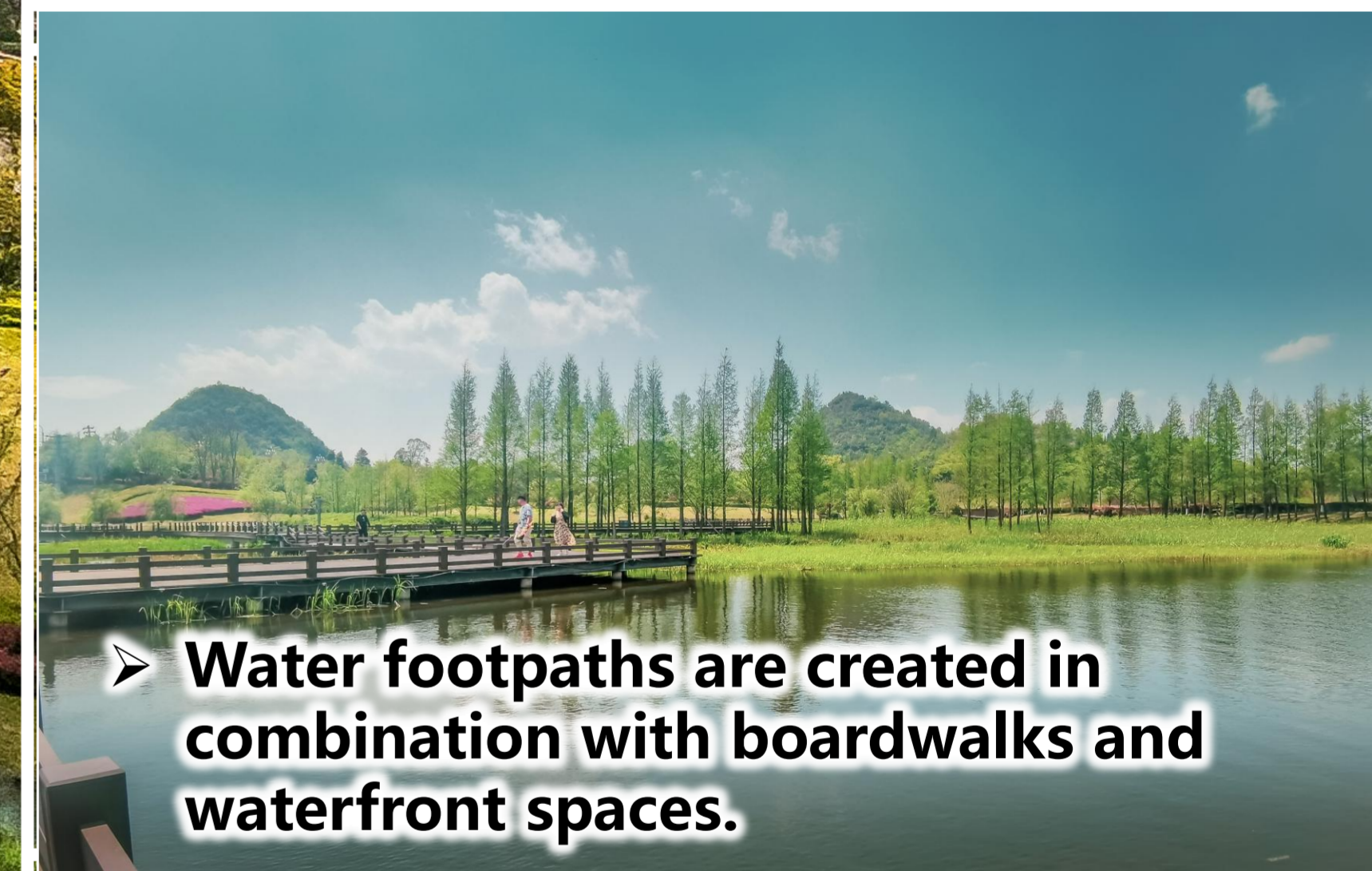
➤ Diverse aquatic plants, flowers and trees are grown, and ecotourism and recreation spaces are created based on the terrain.



➤ Utilizing low-lying terrain and aquatic plants to create a rainwater garden.



➤ Aquatic plants are placed for water purification.



➤ Water footpaths are created in combination with boardwalks and waterfront spaces.



➤ People can have picnic in Moon Lake Park in the summer.

Creating a healing and eco-friendly urban public space

—Building an operable health model

➤ Building fun pavements to encourage residents' physical activity.



➤ Constructing motorless equipment for children to increase spatial interactivity.



➤ Setting up simple exercise equipment for on-site fitness.



➤ Adopting colorful objects to enrich spatial levels.



➤ Creating 3D animated images to attract children.

Creating a healing and eco-friendly urban public space ——Creating an innovative talent circle



➤ Big Data Display Center



➤ Building fun facilities to realize smart photography.



➤ Utilizing smart systems to build a vibrant waterside space.



➤ Cultural Exhibition Space



➤ Bouyei Culture Exhibition Hall



➤ Combining with waterside pavement to create a cultural exhibition corridor.

Creating a healing and eco-friendly urban public space —Creating an innovative talent circle



➤ Using smart technologies to establish a creative lecture service center.



➤ Combining with terrain differences to build an amphitheater-style creative lecture stage.



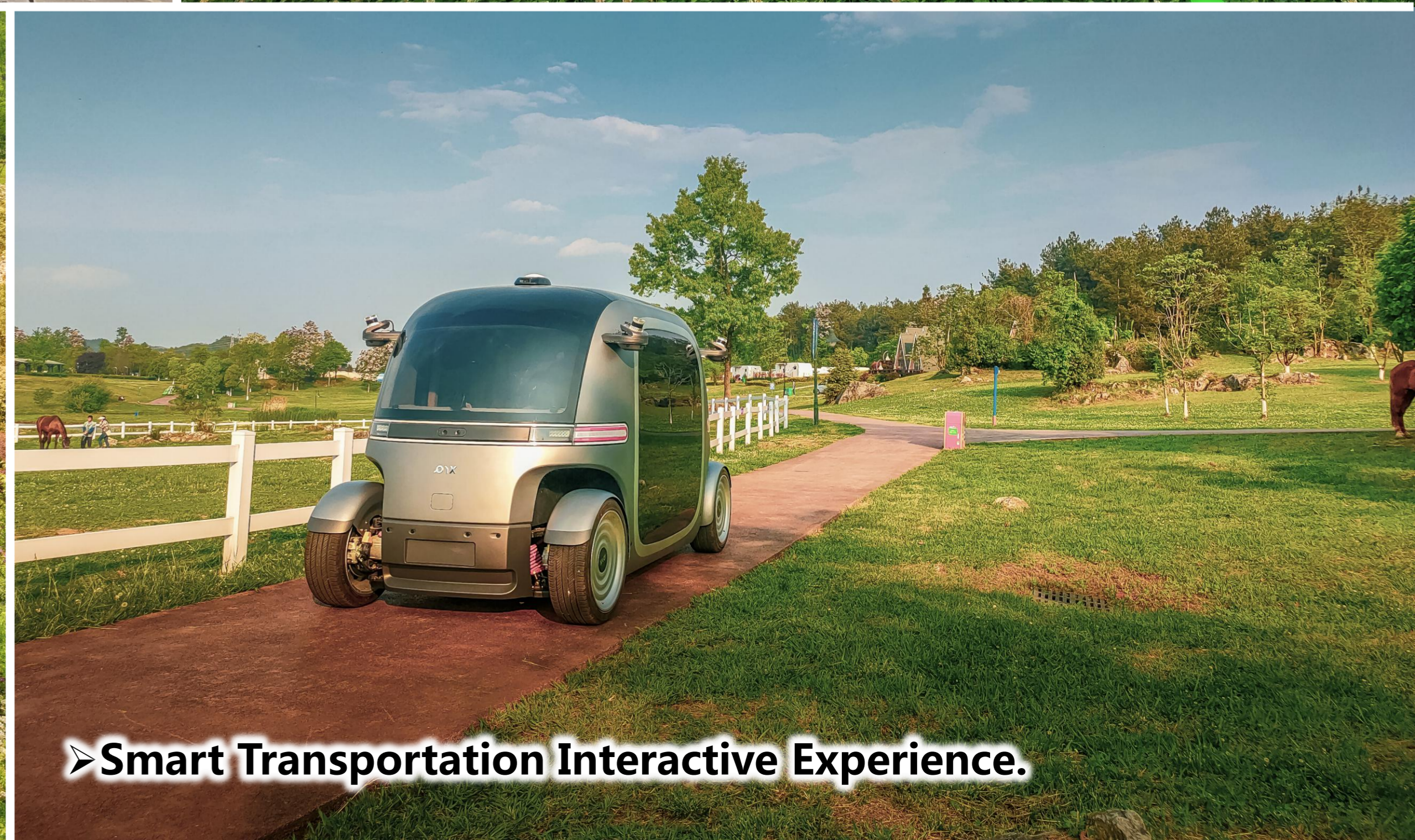
➤ Utilizing natural wind power to create a lakeside windmill cluster.



➤ Combining with natural lawns to establish a healing camp base.



➤ Combining with street-side pathways to form recreational spaces.



➤ Smart Transportation Interactive Experience.