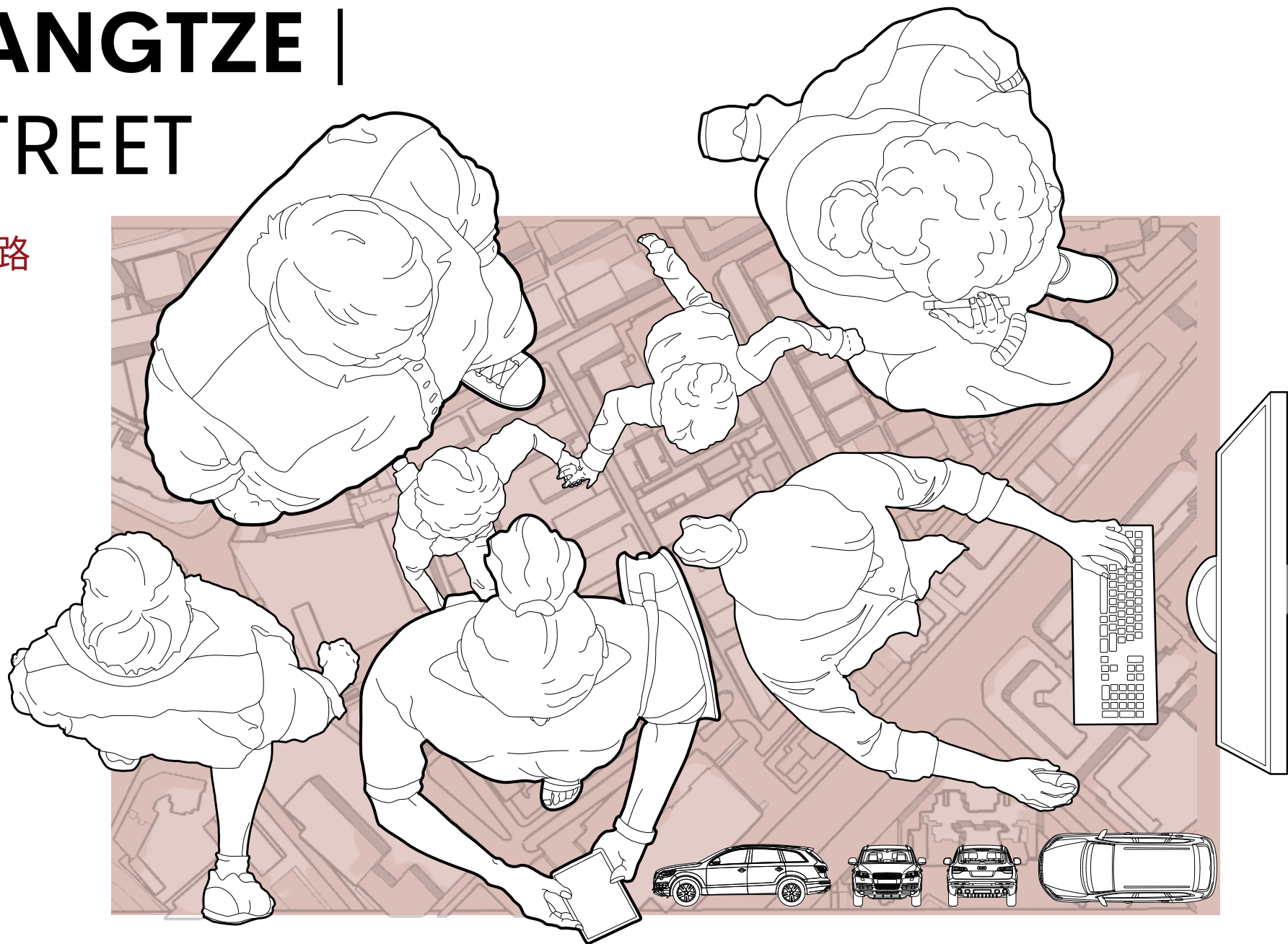


YANGTZE | STREET

长江路



INTRODUCTION | THE PROJECT

项目介绍

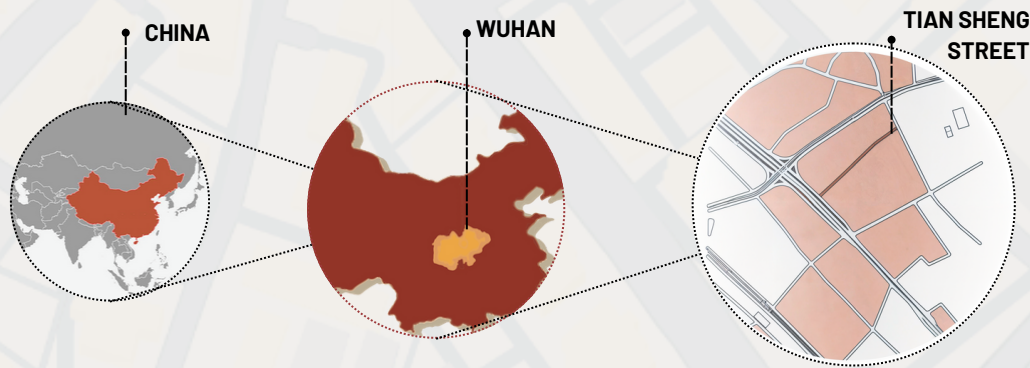


This project aims to transform a street in Wuhan, China, by improving the quality of life for its users, enhancing the urban image, and creating a safer, more organized public space. Additionally, the intervention seeks to foster a sense of identity and connection between the community and the street while raising awareness of the importance of sustainable urban design.

The decision to intervene was driven by several challenges the street currently faces: outdated community facilities, a lack of parking areas, insufficient public spaces, disorganization, poor environmental sanitation, and a chaotic appearance. Furthermore, the street suffers from limited visibility of the sky, a mismatch between building façades and the right of way, and the inefficient interaction between pedestrian and vehicular traffic. These factors have contributed to the need for a comprehensive redesign aimed at addressing these critical issues.

UBICATION AND URBAN | CONTEXT

位置和城市背景

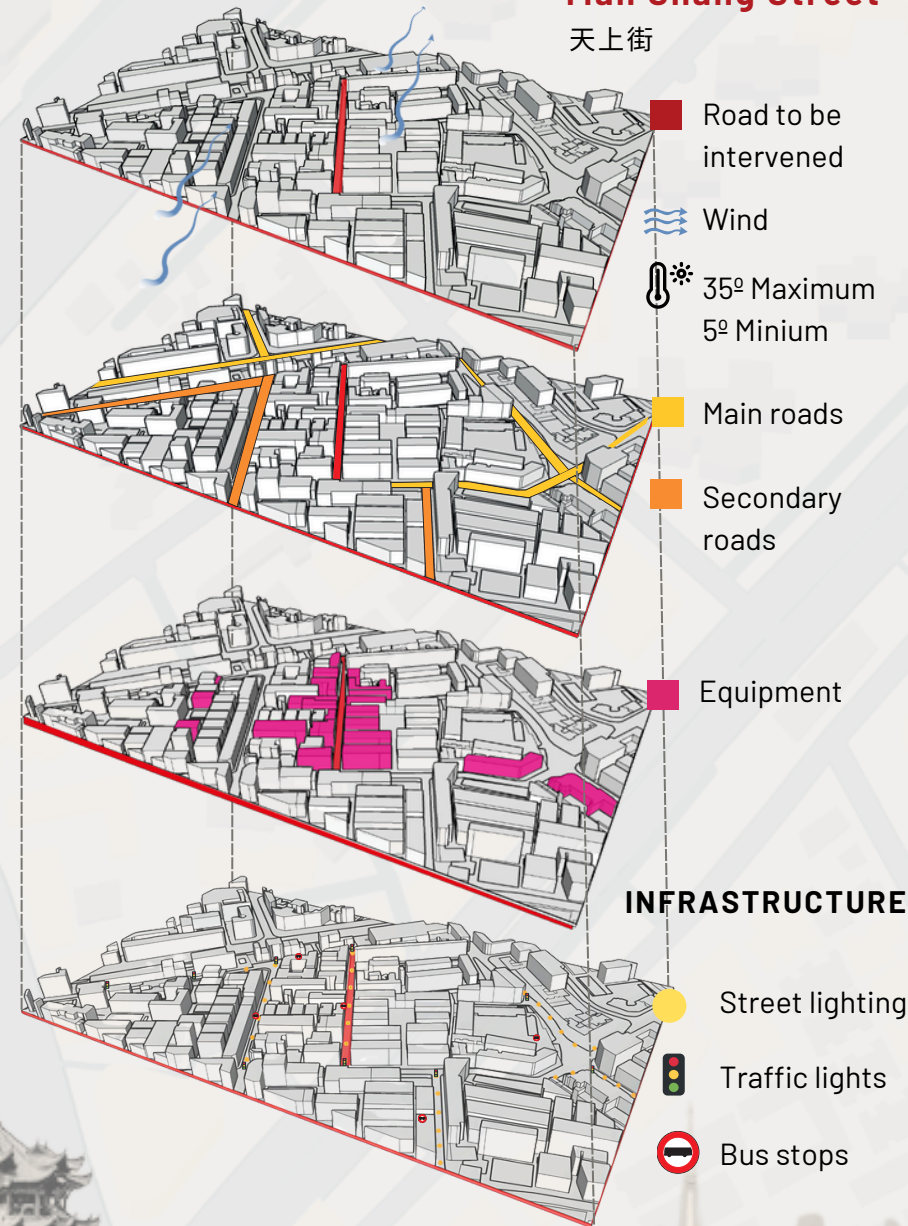


Wuhan is located at a latitude of $30^{\circ}35' N$, meaning the sun always moves from east to west, with a steeper inclination towards the south in winter and a higher one in summer.

- Heavy Industry: Wuhan became an important industrial center in the 20th century, excelling in steel and manufacturing.
- Three Cities in One: Wuhan was formed in 1927 by the merger of Wuchang, Hankou, and Hanyang.
- Railway Hub: Wuhan was one of the first cities to be connected to the railway system in 1906.

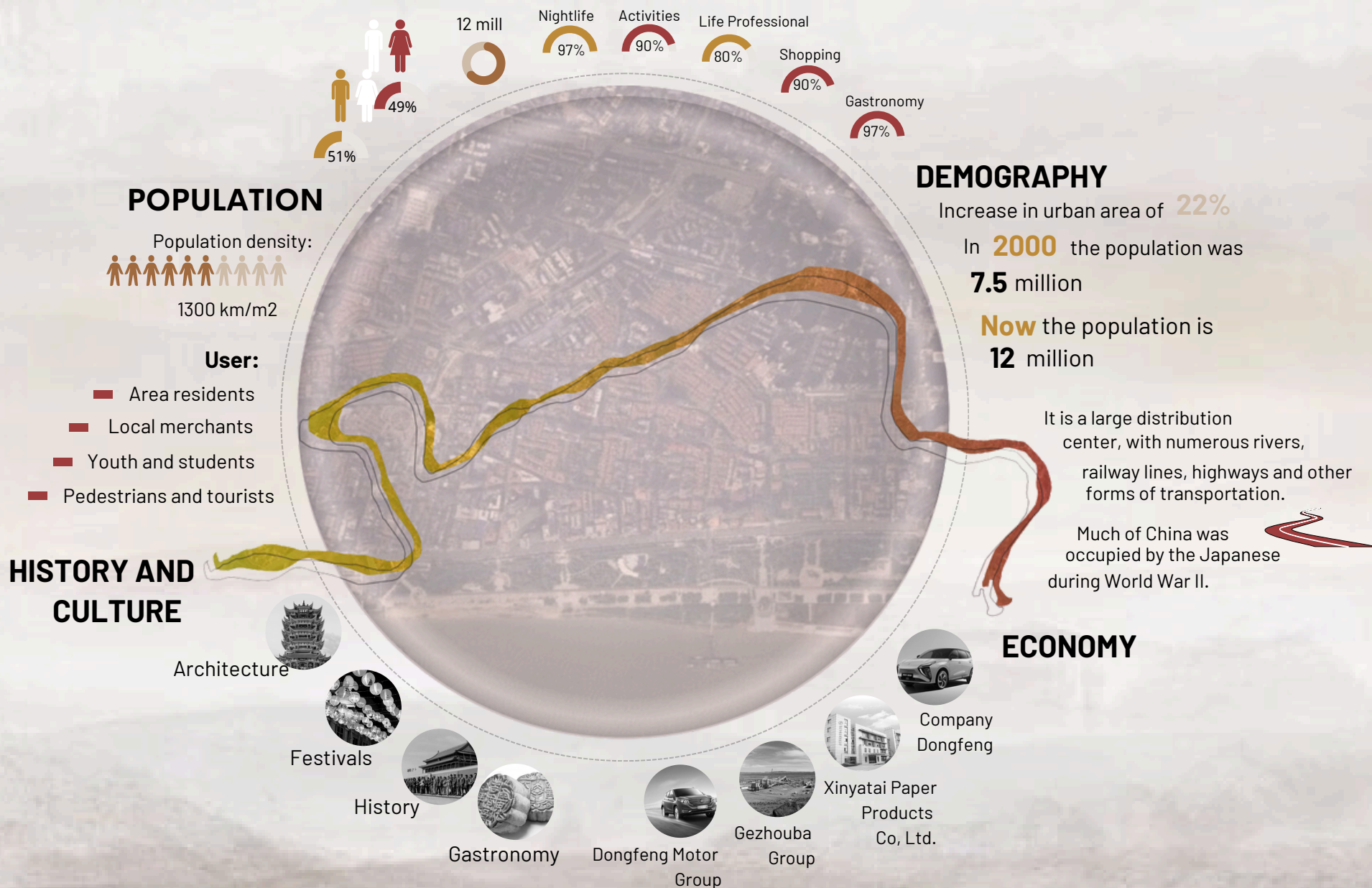
Tian Sheng Street

天上街



URBAN CONTEXT | SITE ANALYSIS

城市背景场地分析



CONTEXT CHALLENGES | PROBLEMATICS

背景挑战问题

The **excessive use** of public space on the street has led to a high demand for commercial spaces, causing several issues. These include the **accumulation of garbage** due to increased activity and inadequate waste disposal systems.

Pedestrians often walk outside designated areas, creating chaos and increasing the risk of accidents. **Traffic congestion** results in **long detours**, extending travel times both on the main street and in surrounding areas. Other problems include the **lack of rest areas** for pedestrians and the **deterioration of infrastructure** due to overuse and insufficient maintenance.

Environmental hygiene issues



Poor environmental sanitation



Low sky visibility

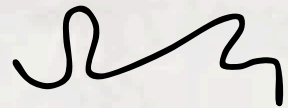


Illegal constructions
(Land boundary demarcation)



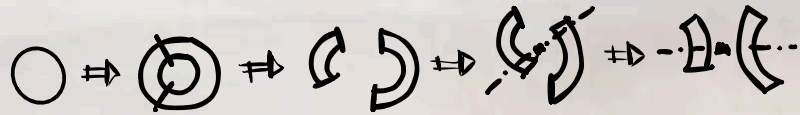
Mix of pedestrians and vehicle traffic





RIVER YANGTZE

Conceptualization of the Yangtze River, in our main idea inspired by the constant flow of water.



Rest areas that follow the organic shape of the river, with benches and vegetation. It will promote social interaction and relaxation, inviting people to pause and enjoy the surroundings.



Just like the flow of water, considering how people move through the space can help organize circulation more organically, facilitating interactions and preventing crowding.

Artwork inspired by local culture, connecting the community with the identity of the place.

DESIGN | CONCEPT

设计概念



INCLUSIVITY

包容性



CULTURAL IDENTITY

文化认同



ORGANIZATION

组织



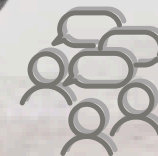
RESILIENCE

韧性



HARMONY

和谐



PARTICIPATION

参与

The natural curve of a river is reflected in the design of the sidewalk, creating a path that gently sways instead of being straight. This can foster a more relaxed and welcoming atmosphere.

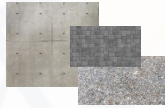
CRITERIA OF | SUSTAINABILITY AND AUTOMATION

可持续性和自动化的标准



SUSTAINABLE MATERIALITY

可持续的实质性



Materials that mimic the colors and textures of the river environment, such as stones, wood, or concrete with rough finishes, integrated into the sidewalk to enhance the urban landscape.

VEGETATION

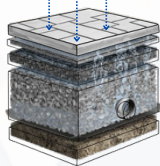
植被



Planting trees and plants that grow near rivers not only enhances the beauty of the space but also improves biodiversity and the microclimate of the area.

RAIN WATER REUSE

雨水再利用



Collecting and storing rainwater for uses like irrigation, toilet flushing, or drinking (if treated), reducing water consumption and environmental impact.

STREET LIGHTING

街道照明

The public lighting in the area will be powered by energy generated from the kinetic energy harvested by the pavement itself.

WIRING BELOW

下面的布线



Underground electrical wiring using support structures.

SMART CONTAINERS

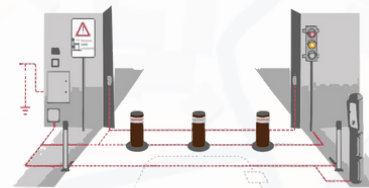
智能容器



Systematic containers with storage limit alarms for collection.

SEMI-AUTOMATIC RETRACTABLE BOLLARDS

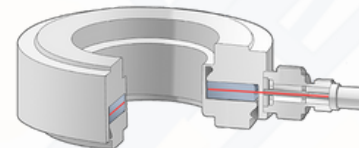
半自动可伸缩路桩



Implementation of bollards activated by residents' electronic cards and according to set schedules.

PIEZOELECTRICITY:

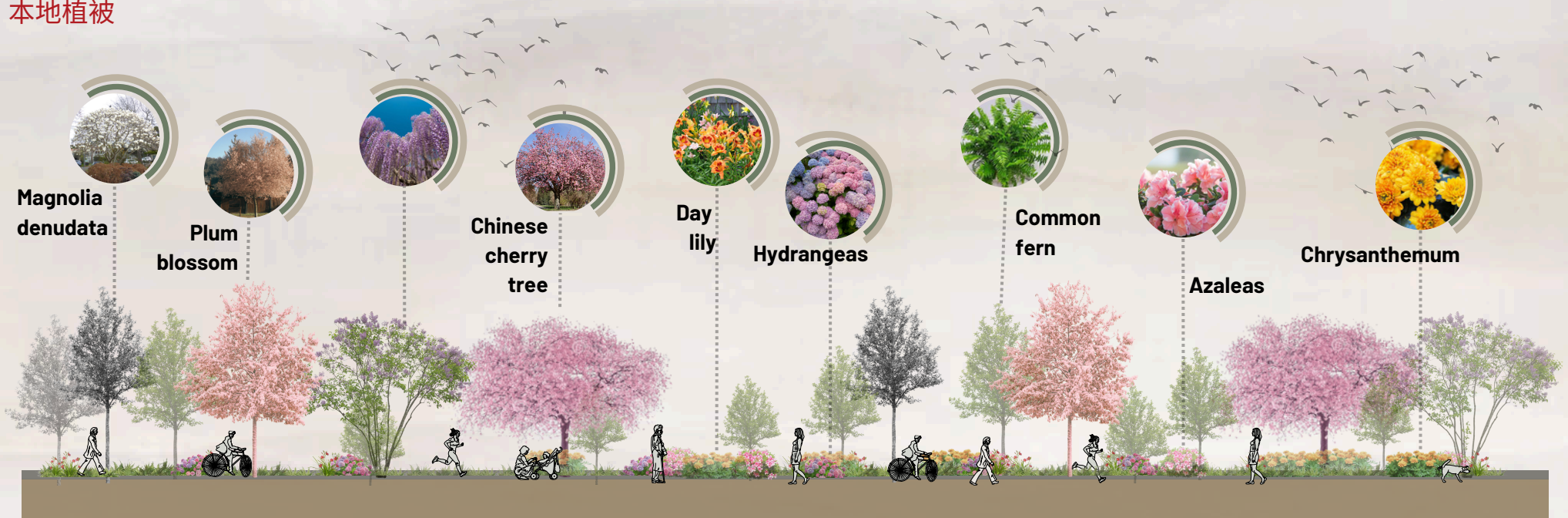
压电



When we walk, our footsteps generate kinetic energy, which can be converted into electrical energy. This can be achieved through systems that convert pressure and movement into electricity.

LOCAL | VEGETATION

本地植被



PLANT | PALETTE

植物 | 调色板



PLUM BLOSSOM

梅花

A visually appealing and culturally significant option, as it symbolizes perseverance and renewal.



CHINESE CHERRY TREE

樱花树

The Chinese cherry tree is visually striking, especially in spring, with its pink or white flowers. However, it requires maintenance due to the falling petals.



DAY LILY

萱草

The daylily is an ideal option for markets due to its low maintenance, vibrant colors, and long blooming season, although it requires attention to watering and its visual impact is temporary.



COMMON FERN

常见蕨类植物

The common fern is an excellent option for market areas due to its low maintenance, resilience, and ability to create a natural and fresh environment.

PROPOSAL | ISOMETRIC

提案等距图

POOR ENVIRONMENTAL SANITATION

环境卫生差

Visually appealing vegetation that also enhances the celebration of Cherry Blossom Day with its distinctive colors.

CONTROL OF ACCESS

访问控制

Retractable bollards intended to give more importance to pedestrians, as they would only have access through electronic cards and during certain established hours.

ILLEGAL CONSTRUCTION

非法建筑

Cultural and design spaces for pedestrians, where they can create and display art on easels and also exhibit their products to prevent illegal constructions.

MIX OF PEDESTRIANS AND VEHICLE TRAFFIC

行人和车辆混合交通

Bays for garbage trucks and residents' commercial vehicles

ENVIRONMENTAL HYGIENE ISSUES

环境卫生问题

Use of smart containers for collection when they reach their maximum storage limit.

IDENTITY

身份

Ground patterns featuring the silhouette of Wuhan's symbolic river, placed at the beginning and end of the street to provide a welcoming and farewell gesture.



PROPOSAL | 提案 多功能

MULTIFUNCTIONAL

ECONOMIC DIVERSIFICATION:

经济多样化

Offering outdoor areas for commercial activities can attract small businesses and entrepreneurs, fostering local economic development and creating new opportunities.

APPROPRIATION AND IDENTITY:

可持续性和空间的高效利用

Over time, the place will integrate with the local culture, adapting to its way of life. Thanks to its functional design, it will not lose its identity; instead, it will evolve alongside the new spatial arrangements.

OPEN-AIR MARKET INTEGRATION

露天市场整合

The design aims to create flexible spaces for street markets, extending commercial activity beyond designated lots to outdoor areas on specific days, fostering a vibrant and dynamic use of public spaces.

SUSTAINABILITY AND EFFICIENT USE OF SPACE:

可持续性与高效利用空间

By utilizing streets and common areas as temporary commercial spaces, the urban space is maximized without the need for additional construction.

FOSTERING SOCIAL WELL-BEING

促进社会福祉

This will create hubs of healthy social interaction, encouraging a better quality of life as people come together and engage in these communal spaces.

