

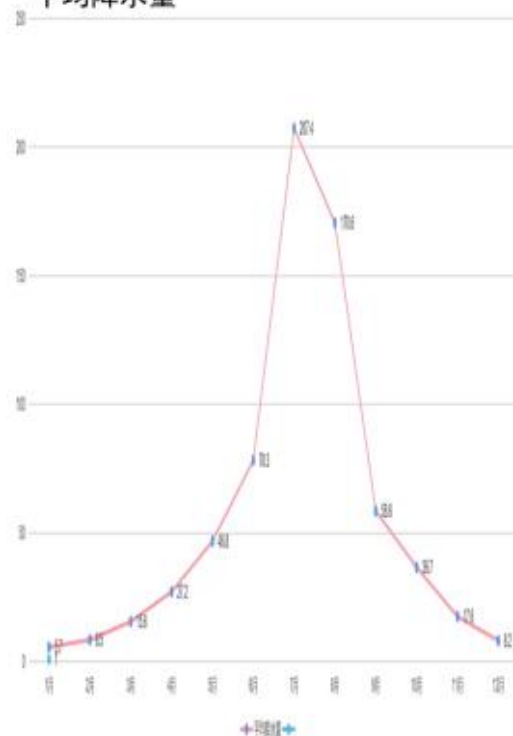
Coexistence and co- prosperity with the environment

Code for park design

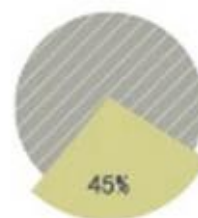
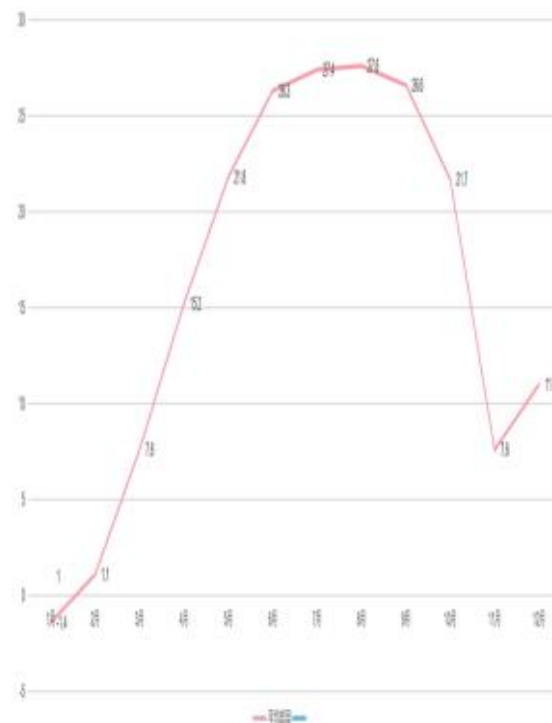
 <p>Comprehensive park 有大面积绿地，功能齐全，丰富人们日常生活，可提供半日以上游憩的综合性场所。</p>	 <p>facilities 为社会公众提供使用或享用的公共建筑或设施：服务设施，运动设施等</p>	 <p>Building area 总建筑面积不应超过规划用地的1.5倍</p>	 <p>security 为游客提供安全通道以及安全设施，保证游览者的安全</p>	 <p>stairway 台阶踏步≥ 2级。纵坡$> 50\%$设平台梯道每升高1.2-1.5m设平台，且进深≥ 1.2m台基最大< 18级</p>
 <p>sightseeing 压力大、快节奏的生活背景下，提供放松休息的场所</p>	 <p>primary road 主路为园区内机动车以及应急车道。宽度为2.5m-4.5m</p>	 <p>Children's Play Area 儿童游戏区与游人密集区，主路以及城市主要道路之间用植物或者地形等构成隔离带隔离开</p>	 <p>Management of construction 管理建筑面积$\leq 1.5\%$</p>	 <p>Storm water control 按照可持续发展的要求对雨水进行收集储存，打造雨水花园与海绵城市。调节洪涝</p>
 <p>Secondary road 沟通景观节点与各个功能区宽度2.0m-2.5m</p>	 <p>Sports 给人们提供，锻炼，开展运动场所</p>	 <p>The popular science 了解旅游地的文化背景以及内涵，提高自身文化素养，拓宽视野</p>	 <p>Laid floor 用不同的材质对建筑广场，园路，活动场地等进行地面装饰</p>	 <p>restroom 游人容量的2%设置，男女比宜在1:1.5，服务半径≤ 250。厕所位数应与人群密度分布相适应，儿童场周围应设置儿童使用的</p>
 <p>tertiary road 园区内数量最多的道路，多为漫步道。宽度为0.9m-2.0m</p>	 <p>Greening area 绿化面积不小于65%</p>	 <p>Proportion of land 公园内各类用地，包括绿化用地、建筑用地、园路以及铺装广场公场地等，占公园陆地的面积。</p>	 <p>Resting seat 容纳量按照游人容量的20%-30%设置，应考虑有人需求合理安排。座椅旁轮椅停放数量不小于座椅的10%</p>	 <p>Water play area 每人150m^2-250m^2</p>
 <p>Parking 为游客提供停放车辆的场所 机动车≤ 5hm^2 自行车≤ 50hm^2</p>	 <p>Garden bridge 桥下净空应考虑通行，排洪等管道以及线路通过时还要考虑通行、安全、维修等问题</p>	 <p>Service building 为游人提供各种服务，咨询，厕所，开水间等</p>	 <p>Rest place 休憩建筑面积不应超过园区陆地总面积的5.5%</p>	 <p>garbage can 公园面积小于100hm^2时垃圾箱的间距在50—100m之间</p>

Climate analysis

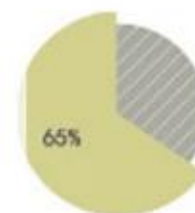
平均降水量



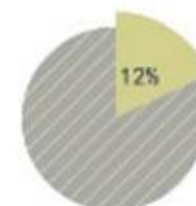
平均气温



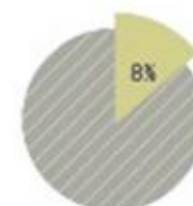
spring



summer



autumn



winter

Shandong province is located in the middle latitude region. Due to the influence of solar radiation, atmospheric circulation and geographical environment, it belongs to the temperate monsoon climate, with dry spring and little rain, warm hot and rainy summer, cool and dry autumn and cold and little rain in winter.

National Waterfront Ecological Park Strategy



Establish a rational national park system and realize unified and efficient management of protected areas.
Establish a national park management model that can be replicated and disseminated.
Strengthen the system for promoting ecological progress.

After years of green construction, the number of wetland animals here has increased year by year.

Location environment analysis

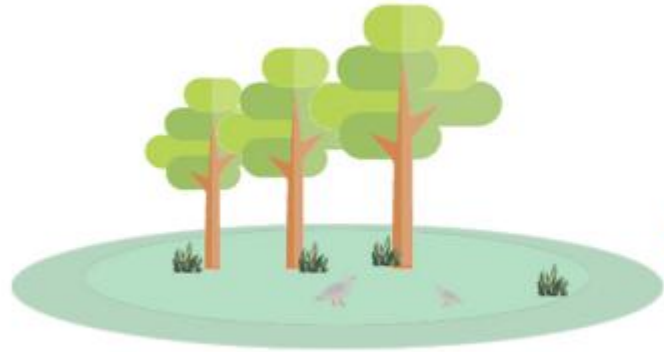


The design site which has convenient traffic is located in Shandong Province, And the Yellow River turns the ninth right here. This area has a wealthy natural landscape and historical culture, such as Autumn Scenes in the Que and Hua Mounts which was drawn by artist Mengfu Zhao who was lived in the Yuan Dynasty.

Site situation



Site problems and solutions



The vegetation of the single



Optimize plant species



Ground hardening affects infiltration



Rain garden



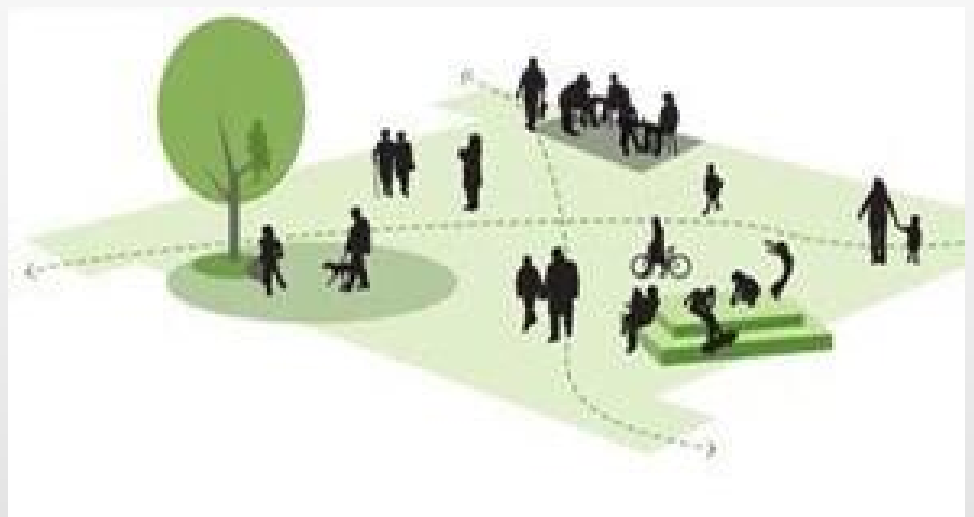
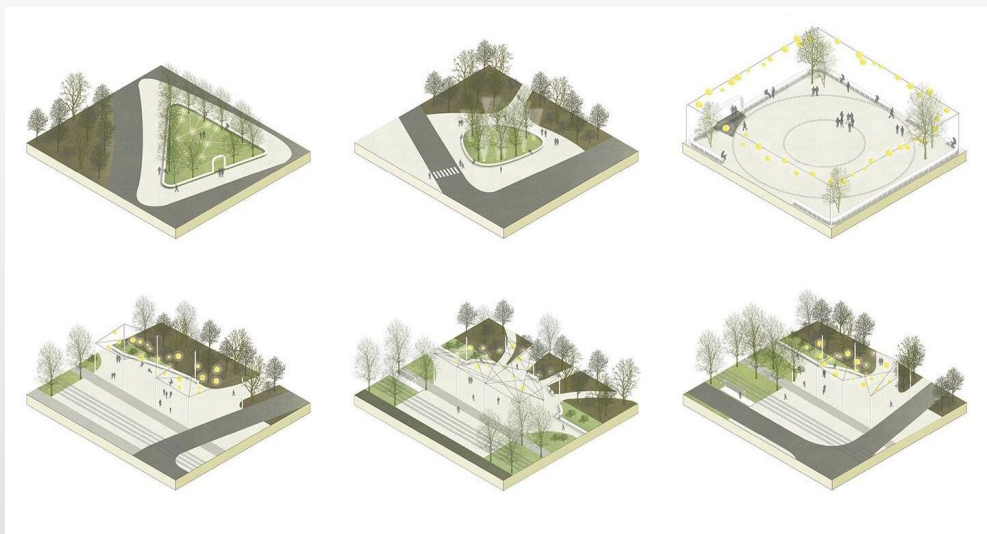
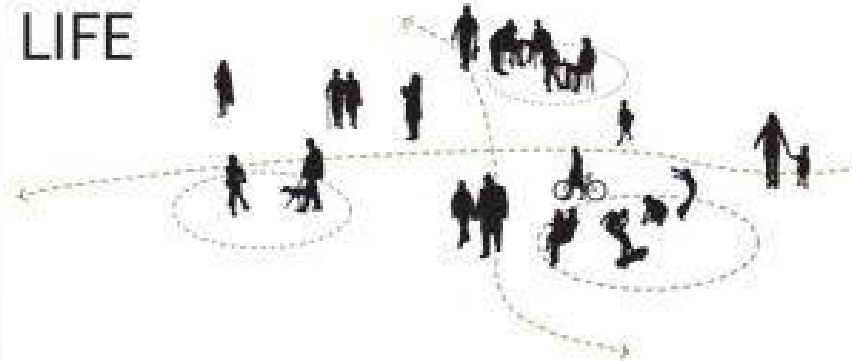
Lack of resting space



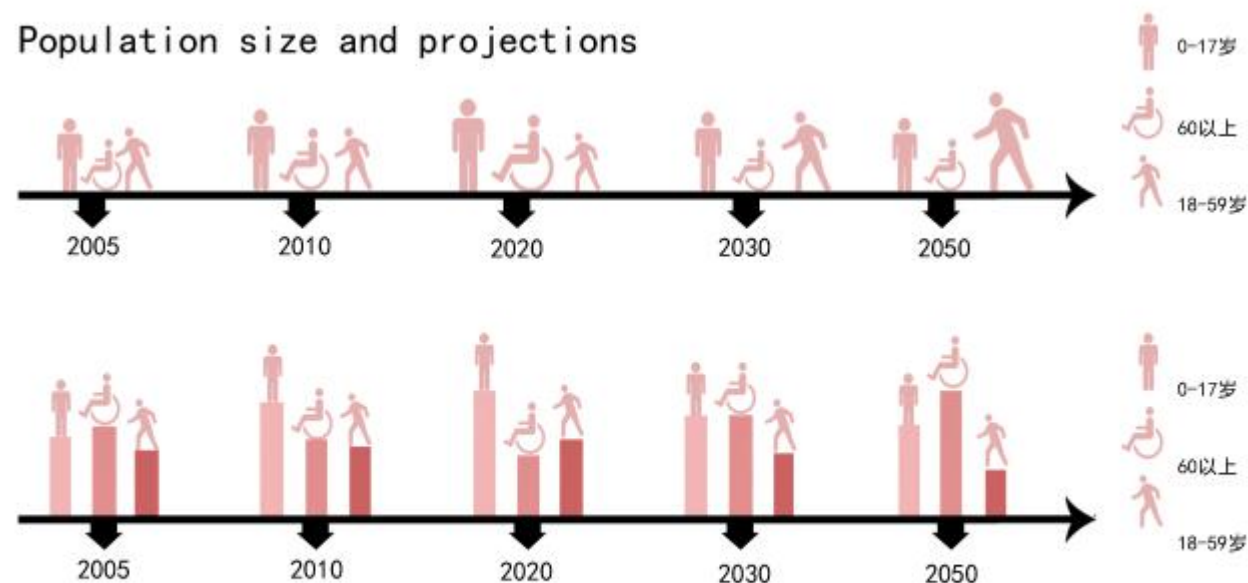
Increase Resting Space



LIFE



Population size and projections



According to the population survey, the number of the elderly and teenagers is increasing, while the number of the middle-aged is decreasing.

People present situation



Elderly residents
vulnerable groups



Living pension



Workers under
great pressure



Yield selectivity



Energetic
youthvigor



play activity



Young intellectuals
in their prime



Post revenue



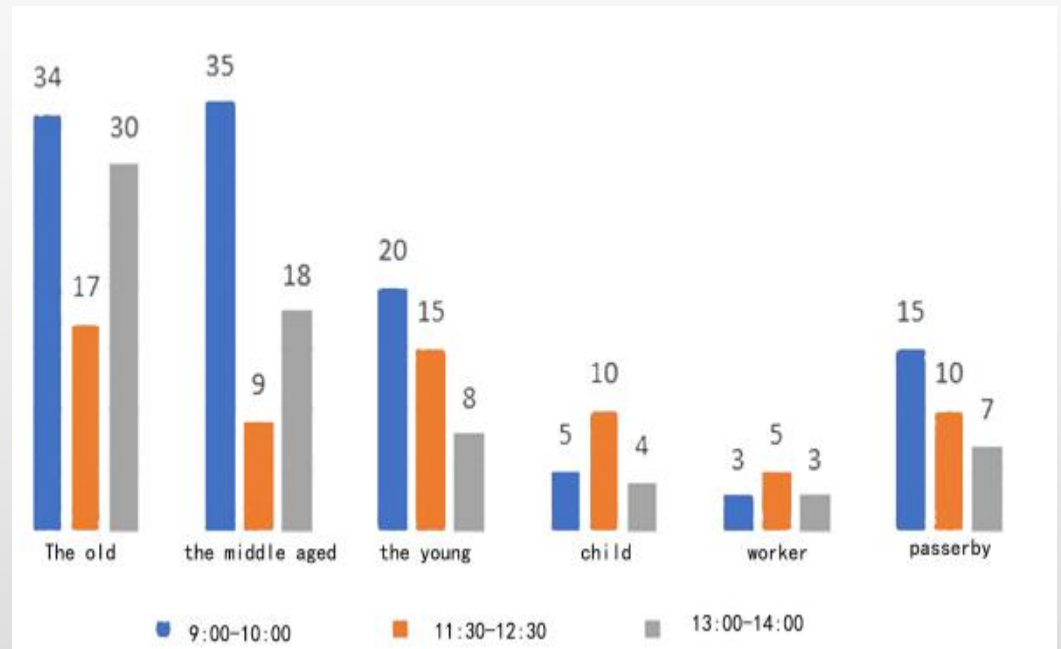
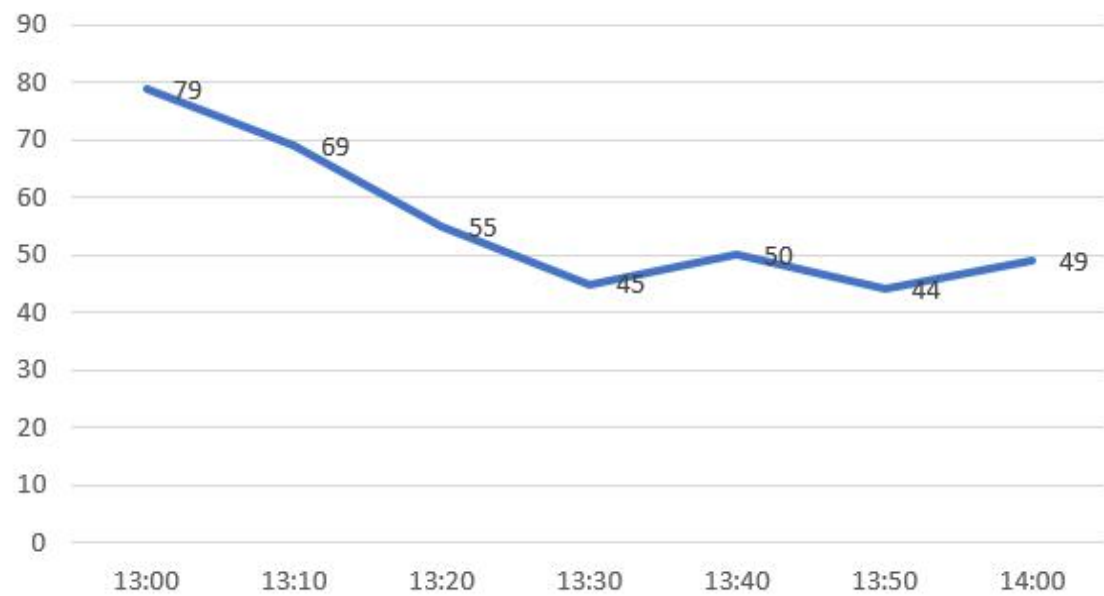
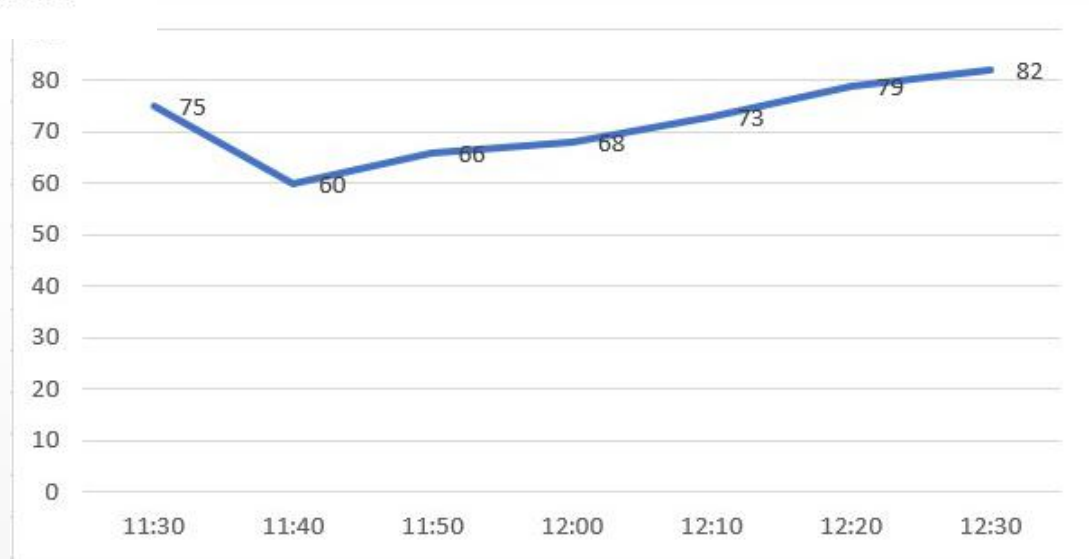
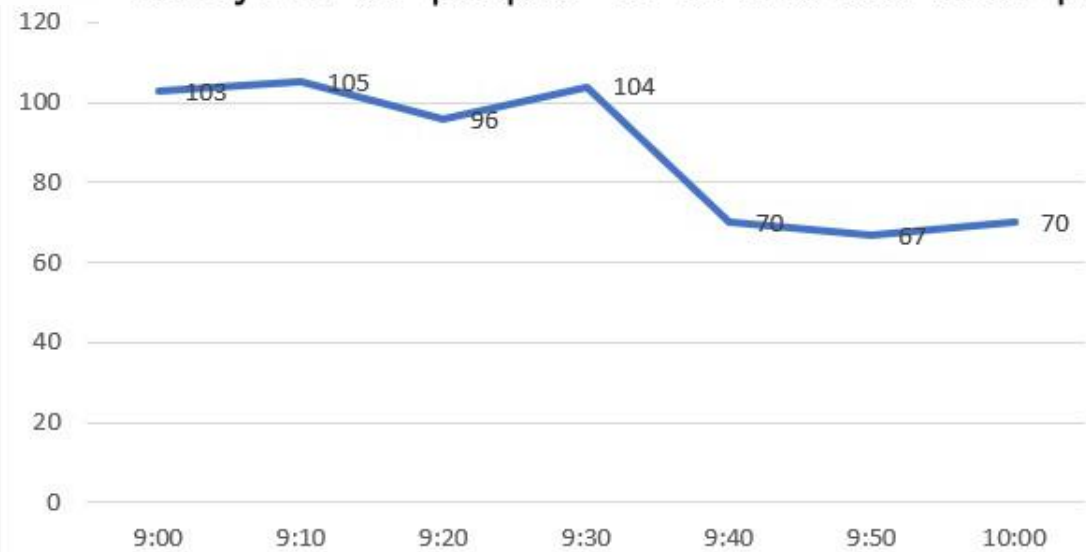
Foreign cultural
consumption

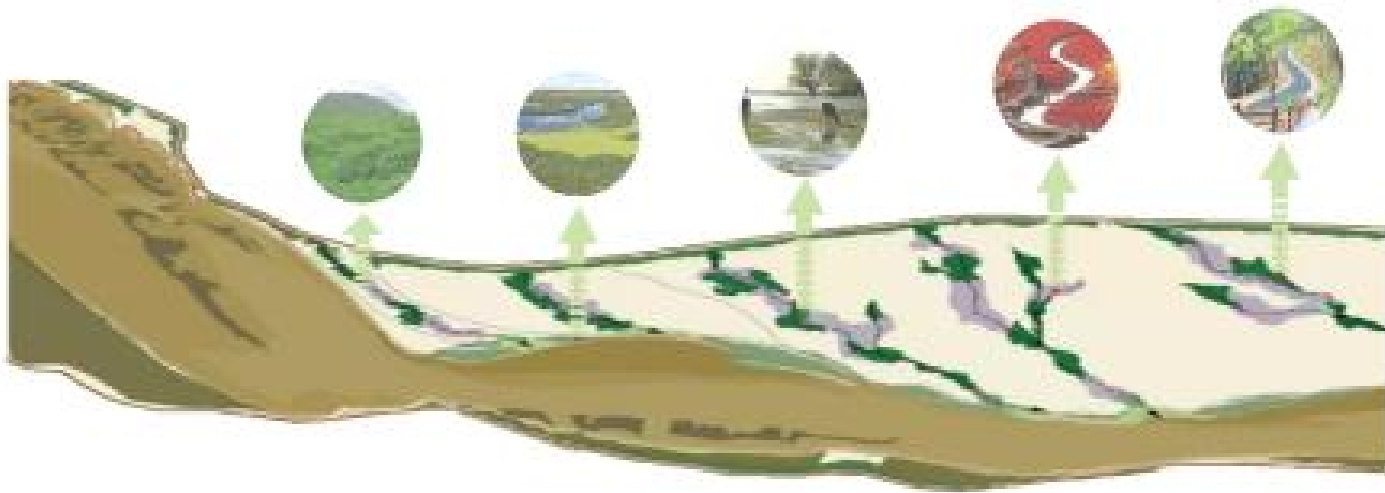


Traffic scenery

Different people are at different angles, so they have different demands on the site function. Therefore, in the design process to take into account the needs of different people for space, at the same time to meet the green development.

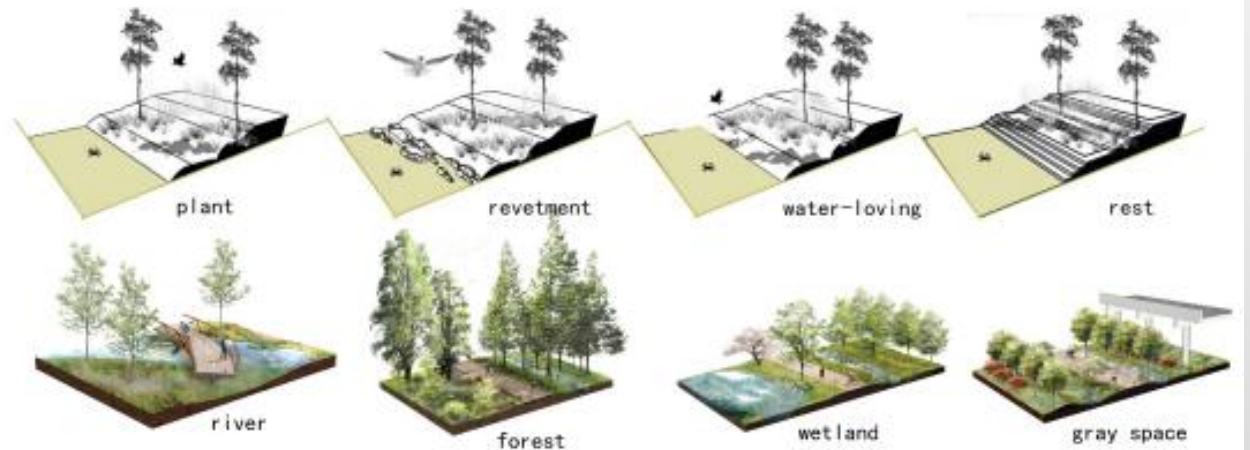
Analysis of people in different time periods





A balanced ecosystem is achieved through adaptation and continuous planting that infuses existing flooded areas with ecosystem forest microcells.

Ecological restoration

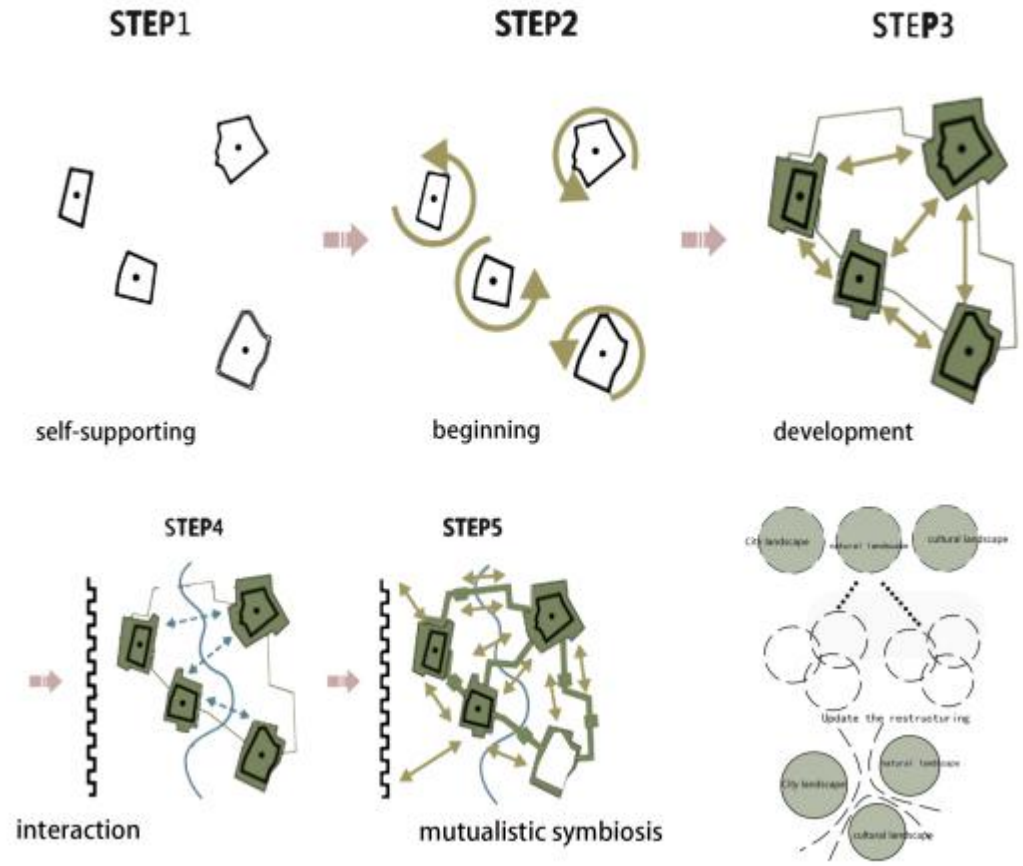


Nature and Humanity



In the site area, the forest coverage rate is high, but the plant species is relatively low, and there is no space for activities under the forest. This place waterfront water, beautiful scenery and rich cultural resources. Through the existing natural resources and historical and cultural resources combined to provide people with a comfortable ecological park.

Design thought

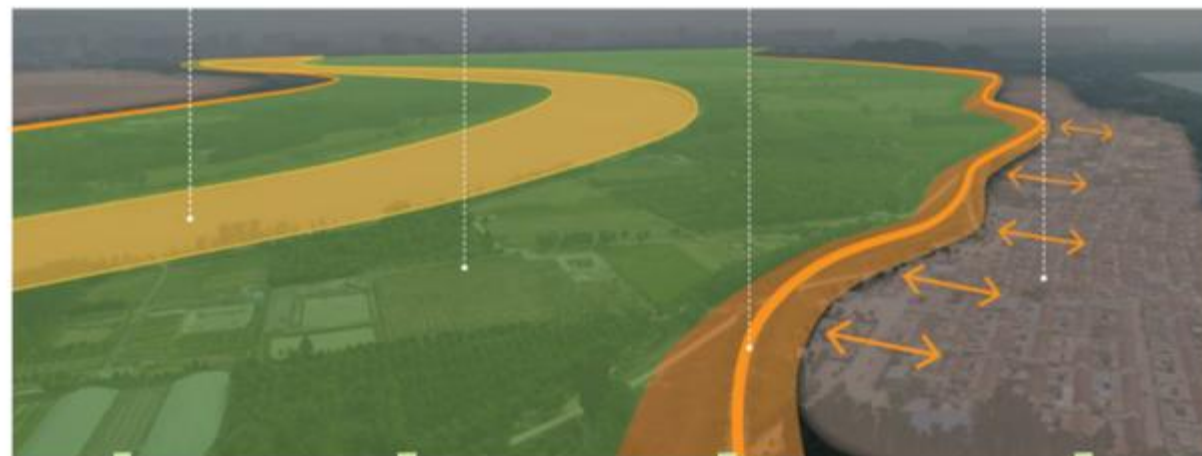


The design intends to expand and utilize the urban landscape, cultural landscape and natural landscape, so that the characteristics of their respective landscape are interrelated and reorganized. And from the user's point of view, really suitable for users. Through different types of activities, the site becomes more dynamic and provides a safe and inclusive green public space for residents.

Six direction belts

1. Ecology: Restore and strengthen the natural ecosystem, and build ecological and flood control systems. In order to restore the ecological diversity of the river flat, the existing single woodland and tidal flat can be changed into a diversified forest system and seasonal wetland.
2. Embankment park system: on the premise of ensuring flood control function, the reconstruction should be carried out by combining landscape techniques.
3. Culture: the original culture is combined and utilized to continue the original culture.
4. Economy: Build an ecological theme park integrating culture and tourism to drive the economic development around it.

Four protective belts



Foreign cultural
consumption



- ✓ Protect the current river course
- ✓ Risk consolidation
- ✗ Affect flood discharge in flood season

River land ecological
protection zone



- ✓ Ecological restoration and conservation enhance biodiversity
- ✗ The new building
- ✗ Large sports facilities will be built

Revetment lifting belt

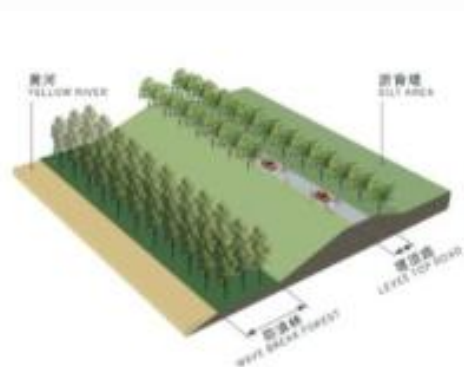


- ✓ The slow system
- ✓ Transportation accessibility
- ✗ Destroy the revetment
- ✗ Affect human activities

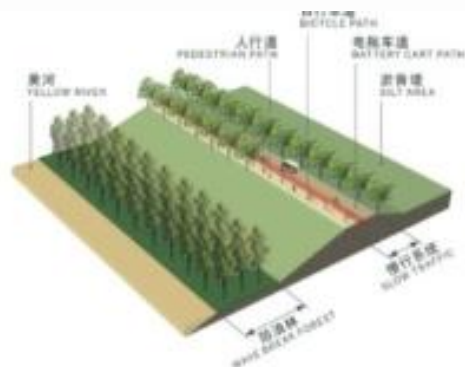
Urban junction



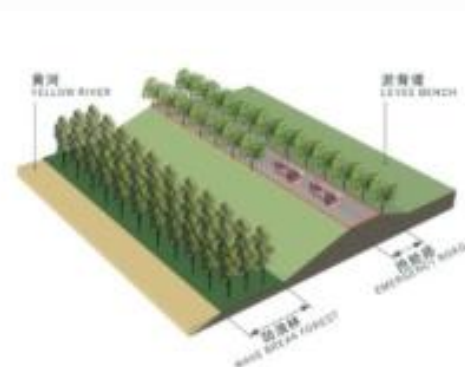
- ✓ Combine history and culture to enhance landscape
- ✓ Urban parks are implanted to meet the demand
- ✗ unapproved construction project



大堤现状
EXISTING LEVEE ROAD

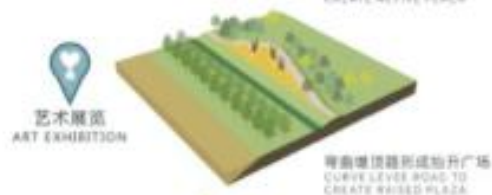
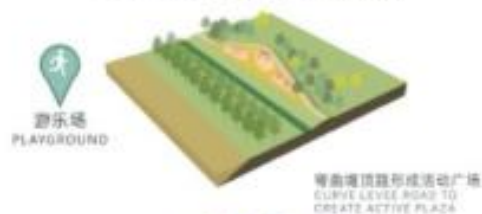


日常活动功能
REGULAR USE

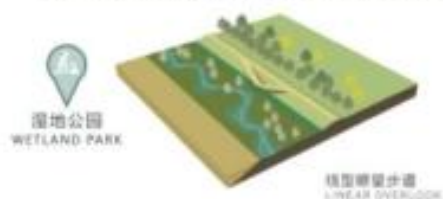


抢险功能
EMERGENCY USE

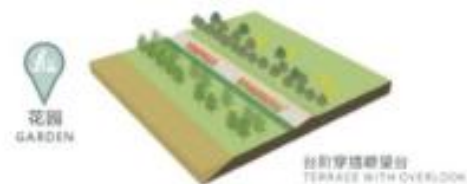
策略一：形成广场
STRATEGY 1: CREATE PLAZA



策略二：远眺黄河
STRATEGY 2: OVERLOOK TOWARDS RIVER



策略三：顺堤而下
STRATEGY 3: STEPPING DOWN TO RIVER



Design task: to build a comprehensive ecological park

Theme: Embrace Mother River

Goal: To develop with the river and co-prosper with the environment

Path analysis



Level road Secondary roads tertiary road

Entrance to analysis



main entrance Time entry

Analysis of line of sight

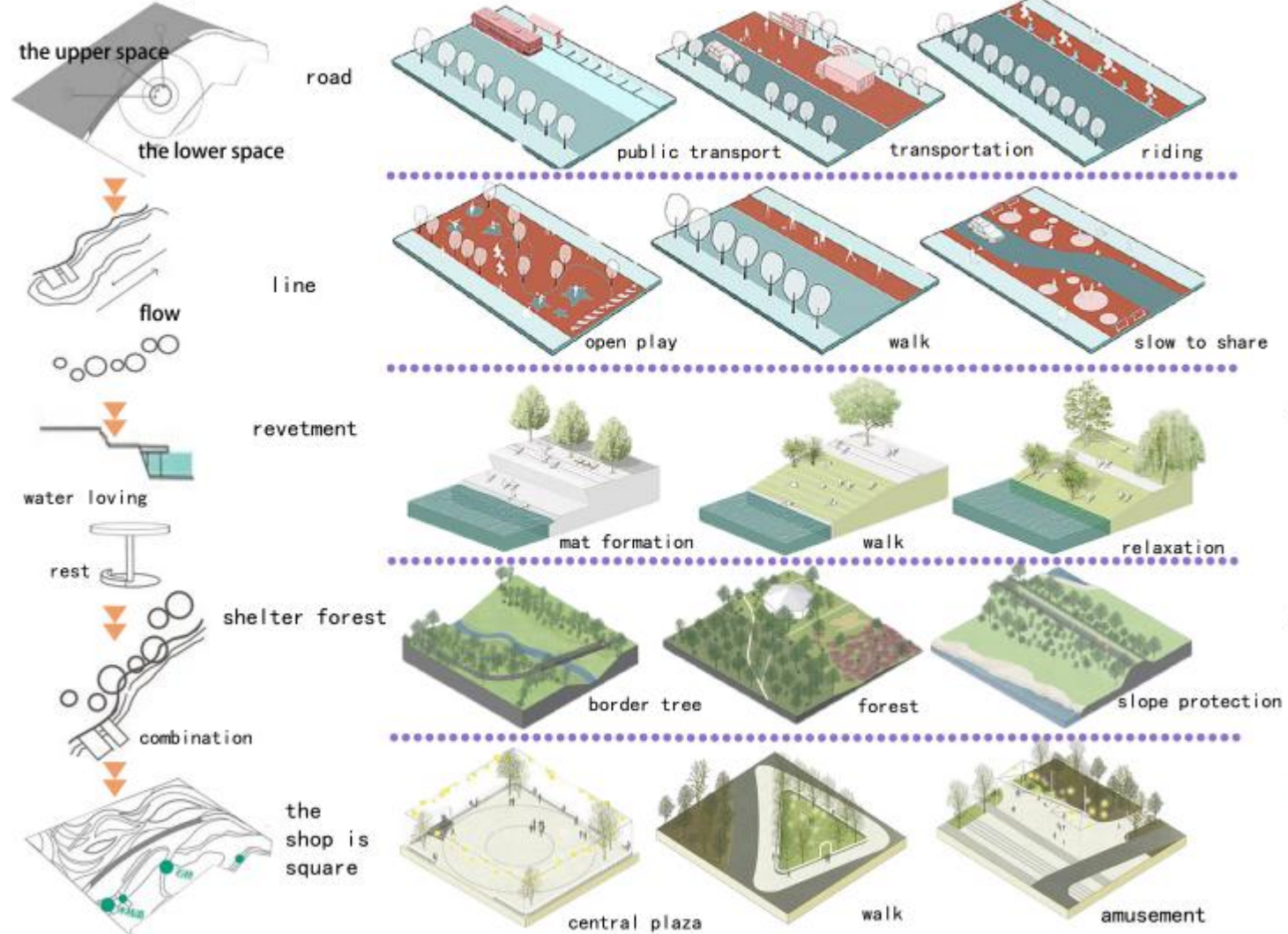


main line of sight Once the line of sight

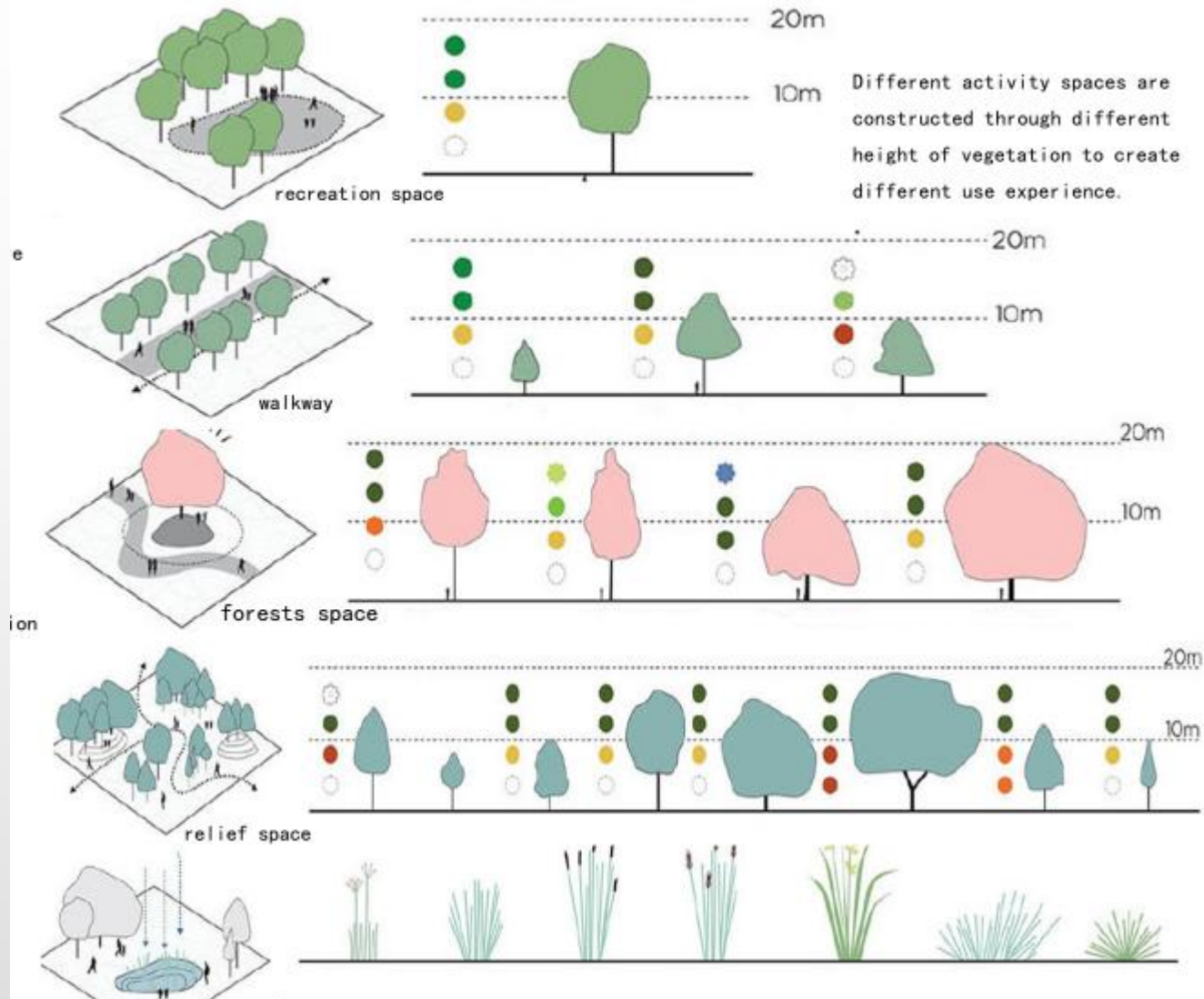
General layout



Deductive process

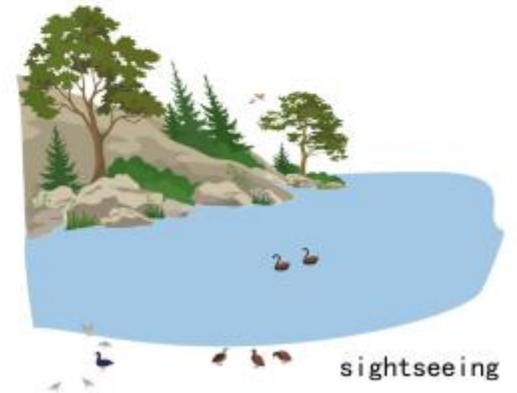
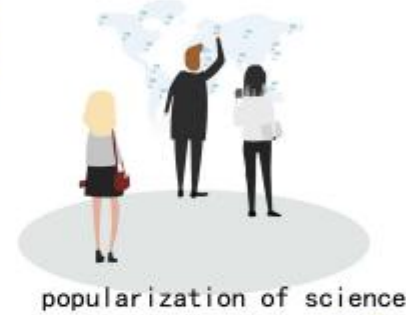


Analysis of vegetation in different Spaces



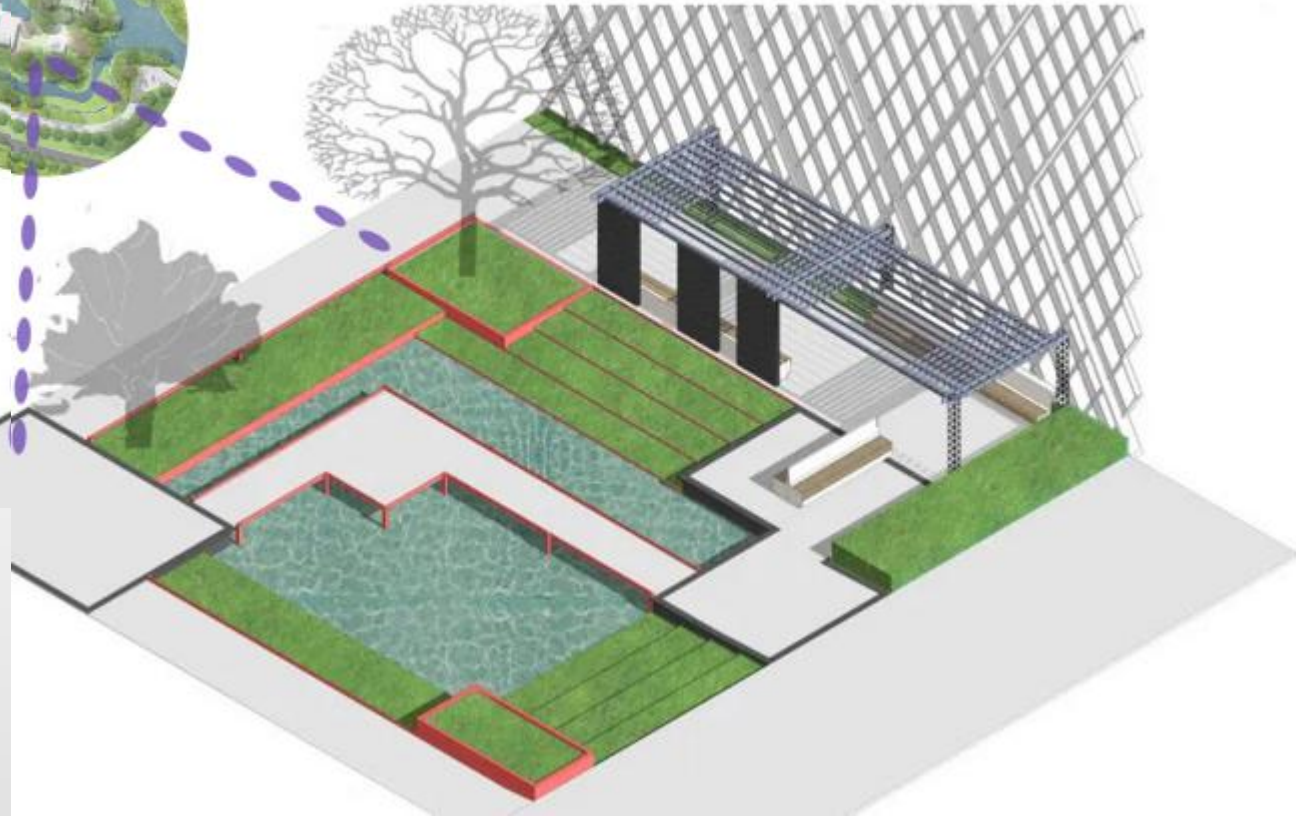
Functional space

Through site investigation, it is found that the site lacks space for rest, entertainment and interaction. In order to achieve a cultural popularization effect, in the design process to consider the use of the site of the original culture and natural landscape combination.

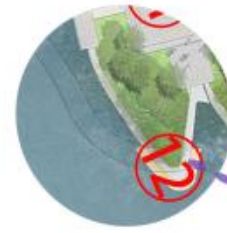


Rain garden

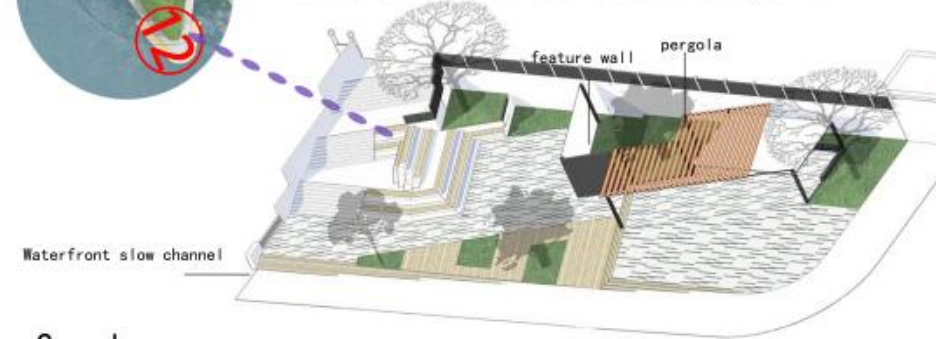
Using the site to plant low-lying terrain to be trimmed, can form a rain garden. Rainwater is collected to reduce surface runoff loss. The purpose is to conserve the surrounding groundwater and supply the landscape water. To achieve an ecologically sustainable rainwater utilization facility.



Sunken water square



The horizontal platform is set to increase the richness. The platform makes use of the terrain to make it sunken, which also enriches the spatial changes, and



Sun lawn

The lawn provides a unique space for sightseeing and rest.



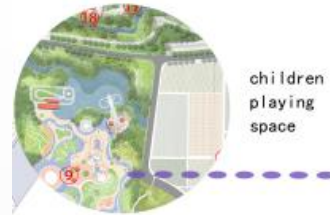
Entrance

A small landscape set at the entrance provides a visual buffer



Ancient building area





children
playing
space



The play space will provide children with opportunities for height, sensory, cognitive and intellectual development. The game space represents a new benchmark and a new experience. Create a playground that is safe to climb, fun and durable and runs efficiently. At the same time, the game will enrich the experience and children's lively, so that children enjoy it.



Ecological
farm



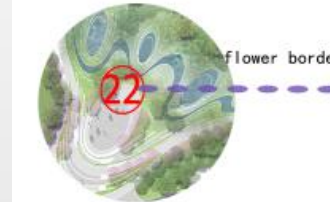
With the development of cities, people are faced with environmental pollution, psychological pressure and other problems. In order to adjust the balance between man and nature, it changes the activity from display type to participation type, so that tourists can experience a brand new experience in their daily busy life.



plank road



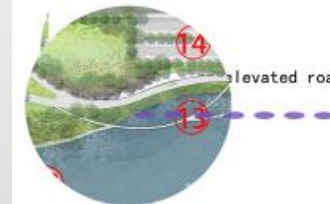
The base is fully combined with the current situation, layout of horizontal platform, walking trails, natural vegetation to create a rich waterfront landscape effect, enhance the waterfront park three-dimensional landscape effect. This enables people to achieve visual experience and spiritual pursuit in the tour.



flower border



Through the reasonable use and planting of plant materials, the flower boundary displays the unique charm of plant varieties and fully reflects the overall seasonal landscape. It not only enriches the level and color of plant landscaping, but also reflects the high quality greening level of the urban environment. With landscape sketch makes the experience more intense.

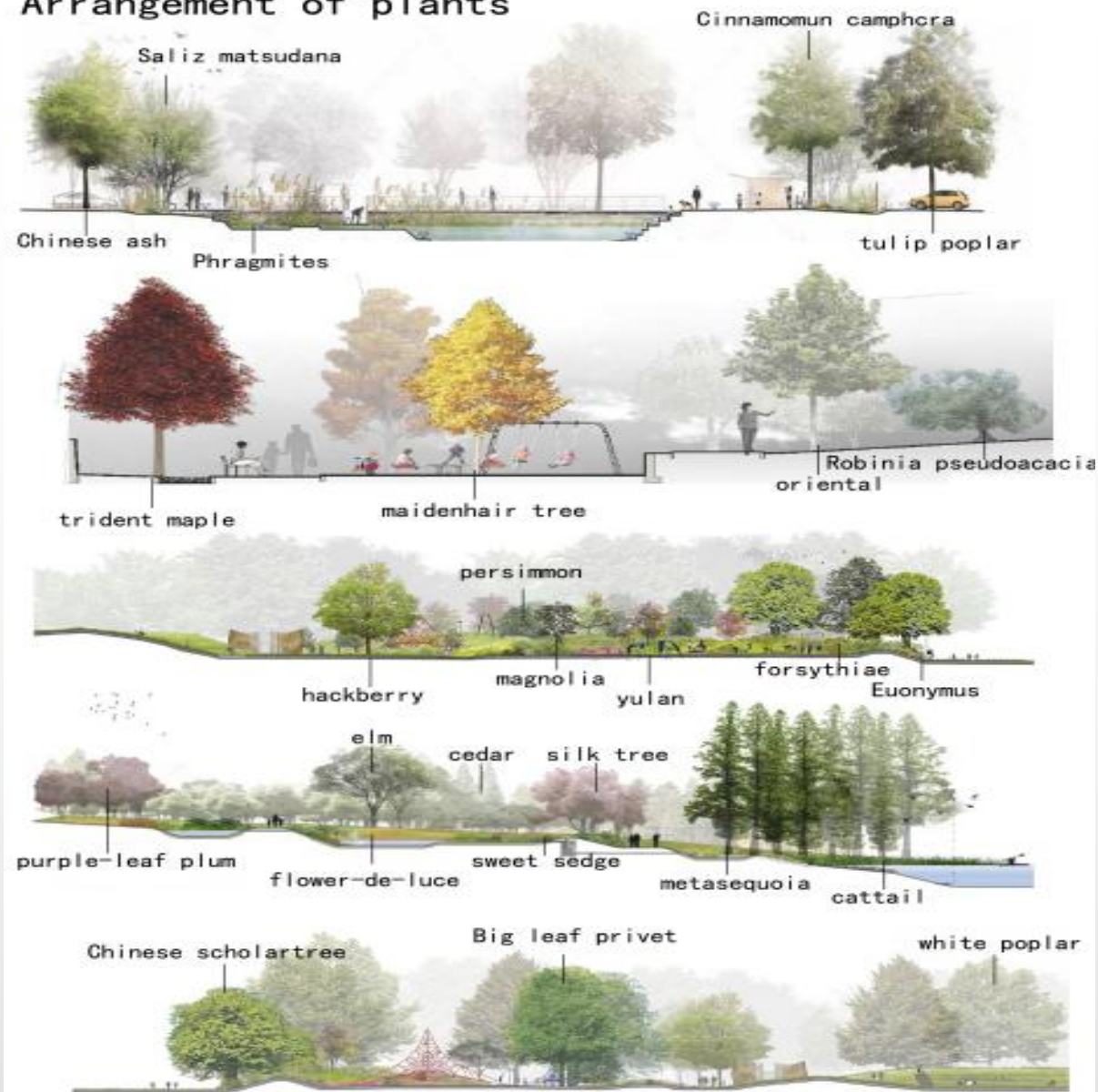


elevated road



The broad area of the boardwalk provides a place for gathering activities. The extended boardwalk adds active nodes to the waterfront. The challenge of the design was how to create space within the limited width. Create interesting space, form height difference change in limited width; The sidewalk space becomes a new node and enriches the change of the waterfront.

Arrangement of plants



Plants can be reasonably matched with flowers, leaves, trees, shrubs and grass to make the plant community rich. The plant form, color, charm and fragrance have obvious seasonal changes, forming in the plant landscape with mutually coordinated environment and rich changes. Can make the user in the view of the tour to produce a beautiful experience.

display of effect drawing







Coexistence and co-prosperity with the environment

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