

THE 8TH VIRTUAL DESIGN WORLD CUP

Sharable urban system of future Shanghai

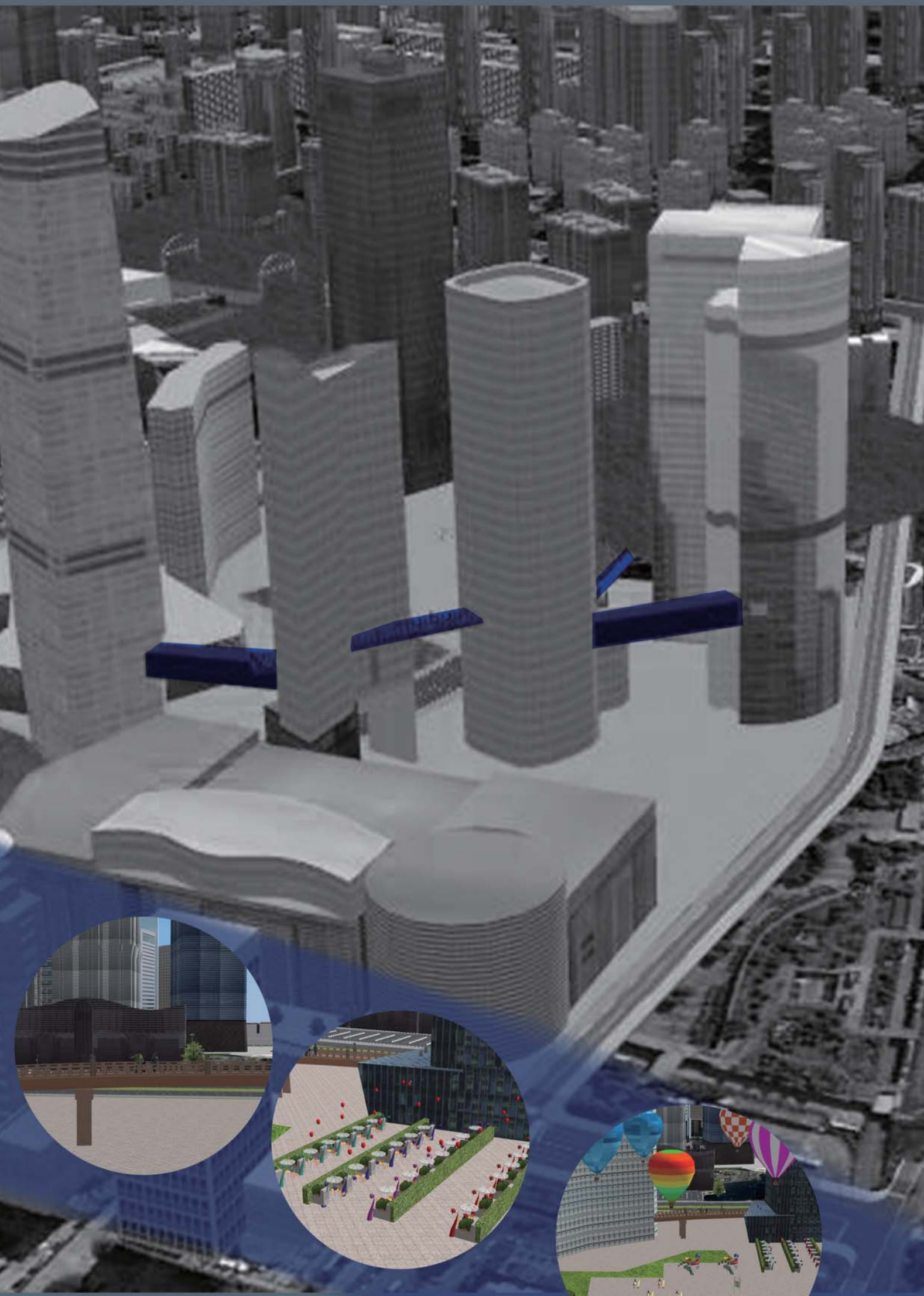


Micro-growth

Conception

If the city is seen as a growing plant, the upper half is the green leaf, the lower half is the root of the city, and the trail is the aorta that transports nutrients. In the past, the rude construction method will definitely destroy the texture of the city. Nowadays, various urban problems have been exposed. Under the low-carbon urban planning trend, combined with the current situation of the plot, it is proposed to make the slow space system "micro-growth", abandon the rigid axis and monotonous functional division, oppose the large-scale demolition and construction, and protect the fine texture of the city.

The "micro-growth" of the slow traffic system advocates full respect for the internal structure and historical traditions of the block, protects the original texture, and uses organic low-carbon technology to update and create. The result is a complete low-carbon green slow-moving transportation system to create a comfortable and pleasant slow-moving space.



Cities are the result of the agglomeration of human social activities, which means more efficient circulation and exchange. Shanghai Lujiazui has the most beautiful skyline. There are many high-rise buildings, and there are more than 20 buildings over 200 meters. However, a single closed skyscraper has become a deformed small social system. It can only meet the needs of people's office, entertainment, diet, exercise, etc. For reasons of time or convenience, people tend to be in a building. In-house activities, so have to give up some choices, which is not in line with people's pursuit of high-quality life. The "Cloud Walk" system we designed is to connect the complementary skyscrapers with reasonable planning and design to provide more convenient services for people who are busy in the city.

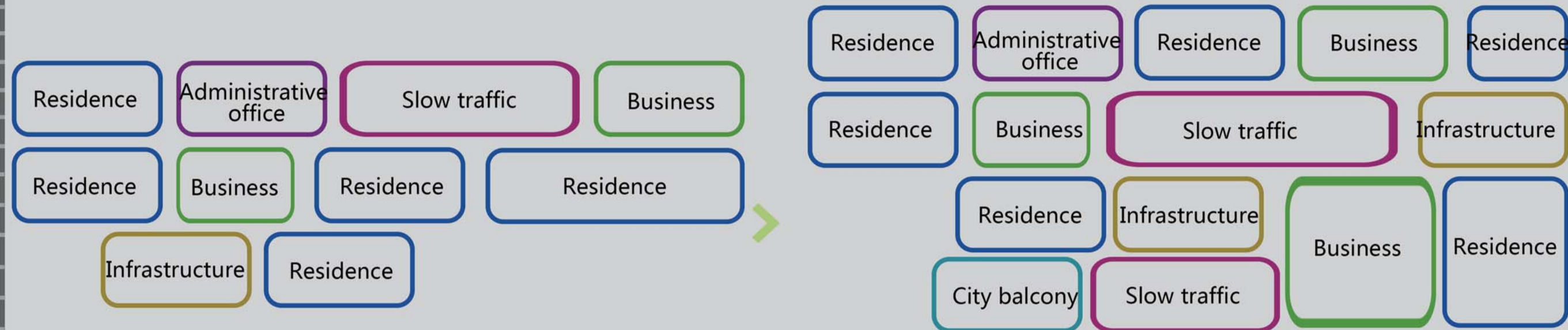
PART 1

PART 2

PART 3

Micro-growth of regional function

Promoting effective mix of land use, intensive use of land, promoting short, path travel.

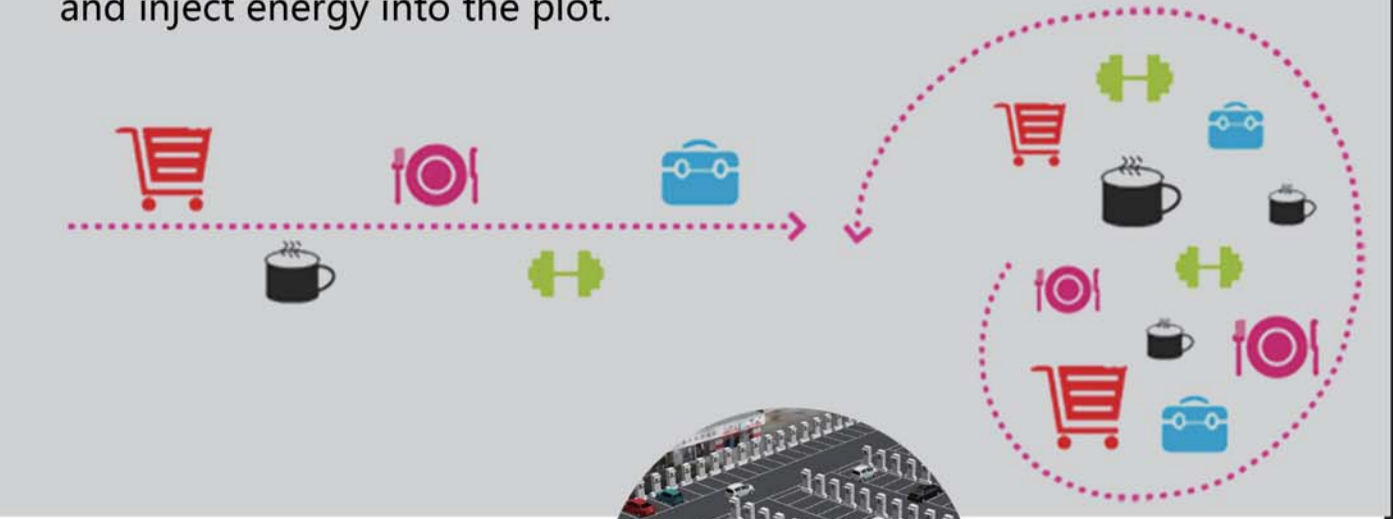


Physical contact: single function, lack of connection.

Chemical reactions: mixing and clustering of functions.

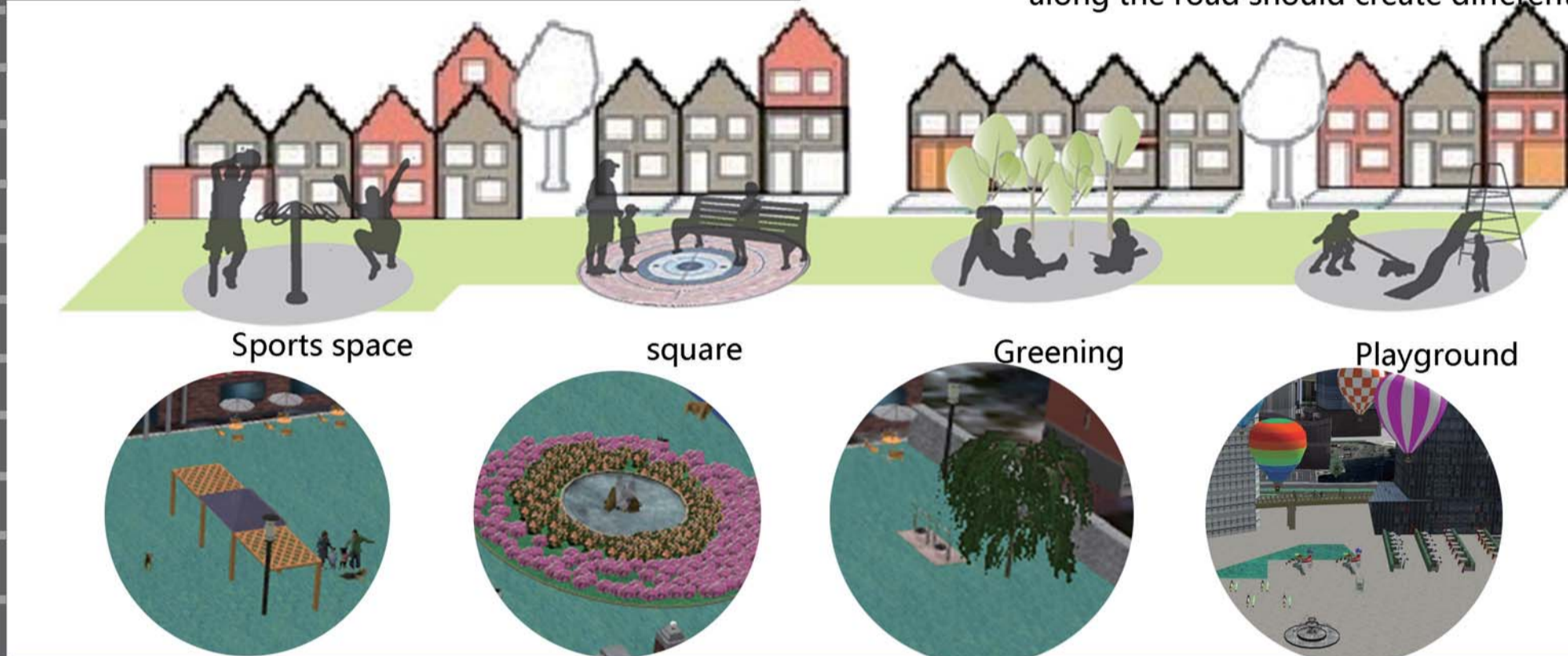
Micro-growth of regional energy

Through the transformation of the slow traffic system, enhance the attraction of the plot, attract the gathering of people from different social strata, and inject energy into the plot.



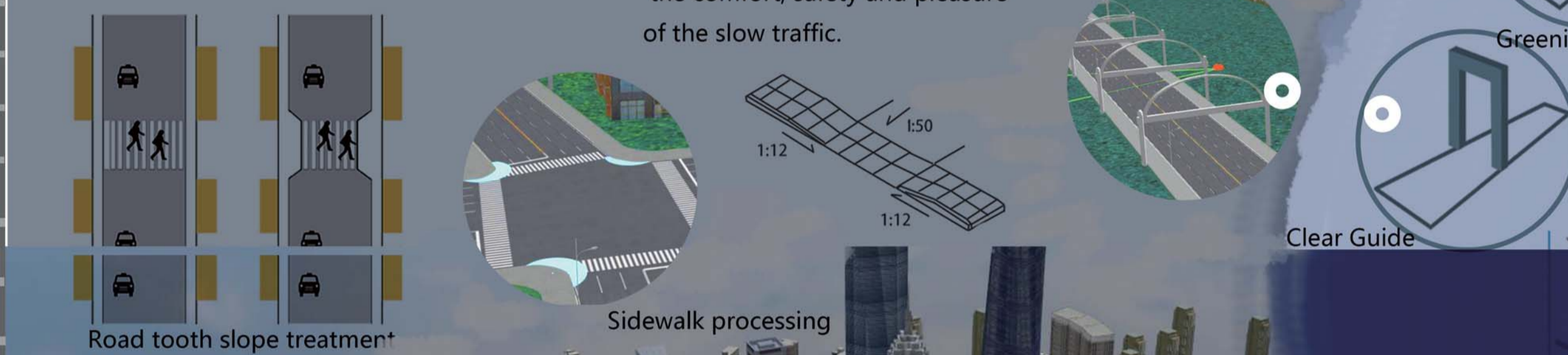
Micro-growth of life communication

The micro-growth of life communication: to enhance the multiple values of slow-moving roads, along the road should create different nodes with different characteristics, to provide the public with an open space for leisure, fitness, chat and other life-communication functions.



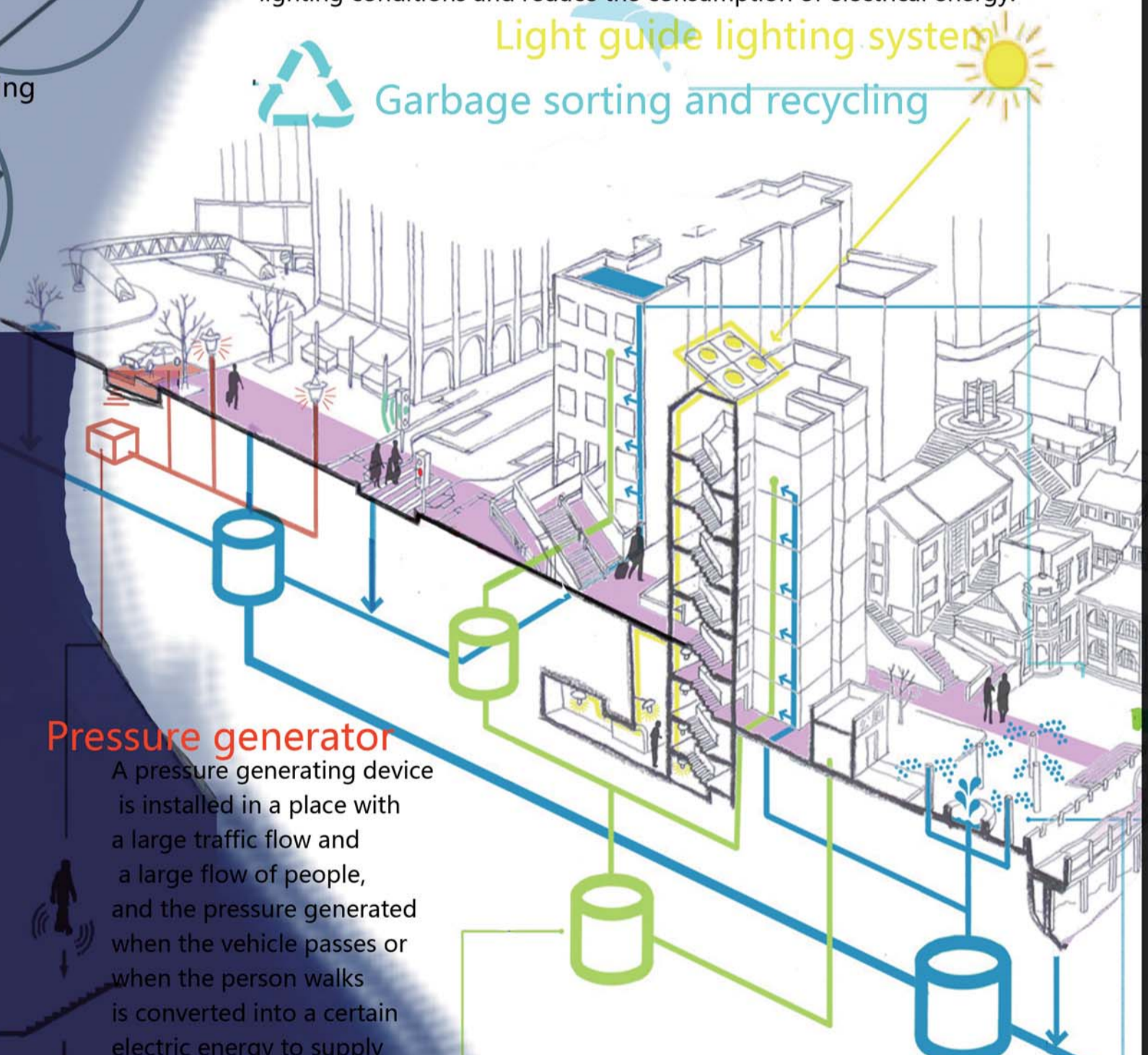
Micro-growth of slow traffic

Beautify the environment and improve the comfort, safety and pleasure of the slow traffic.



Micro-growth of infrastructure

The use of a light guide lighting system to improve lighting conditions and reduce the consumption of electrical energy.



Pressure generator

A pressure generating device is installed in a place with a large traffic flow and a large flow of people, and the pressure generated when the vehicle passes or when the person walks is converted into a certain electric energy to supply energy to the surrounding LED street lamps.

Ground rainwater harvesting system

There are many impurities in the rain on the ground, and the source of the pollutants is complicated. After abandonment and coarse filtration, it must be precipitated before being discharged into the water storage system for treatment.

Water system

The domestic sewage and wastewater after use are recycled after proper treatment.

Water spray cooling system

Use the collected rainwater or the treated medium water, set the spray spray to cool down, spray the purified water to the ultrafine water mist, and use the water to absorb heat from the liquid to the gas to improve the temperature, humidity and human comfort.