

# Running Illuminates City



Country / City China  
University / School Beijing Forestry University  
Academic year 2016-2017  
Title of the project Running Illuminates City  
Authors Yujia Zhong, Chen Chen, Yuwei Tang, Yiyang Ge, Yilan Wang





# PERFORMATIVE NATURE

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## TECHNICAL DOSSIER

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Title of the course	Studio of Landscape Architecture Design
Academic year	2016-2017
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Written statement, short description of the project in English, no more than 250 words

The 2008 Beijing Olympic Marathon route starts from Tiananmen Square and passes through famous sites such as Tiantan Park, Zhongguancun Street, Tsinghua University and National Stadium. With the end of the Olympic Games, this route once again became a "gray" transportation infrastructure. The nature of the land on both sides is limited, and there is no space for large-scale reconstruction and development. Therefore, how to skillfully adopt a minimum interference intervention to redefine and functionalize the "green" of this gray infrastructure is the focus of our attention. Based on the research and evaluation sites, we have combined the Beijing Marathon track to form a "multi-loop system" of running tracks and slow running systems, and then set points around the ring to combine green spaces and venues to provide residents for exercise and communication. The walking of pedestrians on urban roads, driving of cars, and operation of subways all generate vibrations. The device collecting the vibration energy will be arranged along the line and converts the energy into electricity for road lighting, green belt irrigation, and activity facilities. While achieving "grey" to "green", energy collection, power conversion, lighting of lights, and watering of plants will all be fed back to the user's APP through specific data generated by interactive devices, in order to motivate the public to actively participate in public welfare campaigns.

For further information

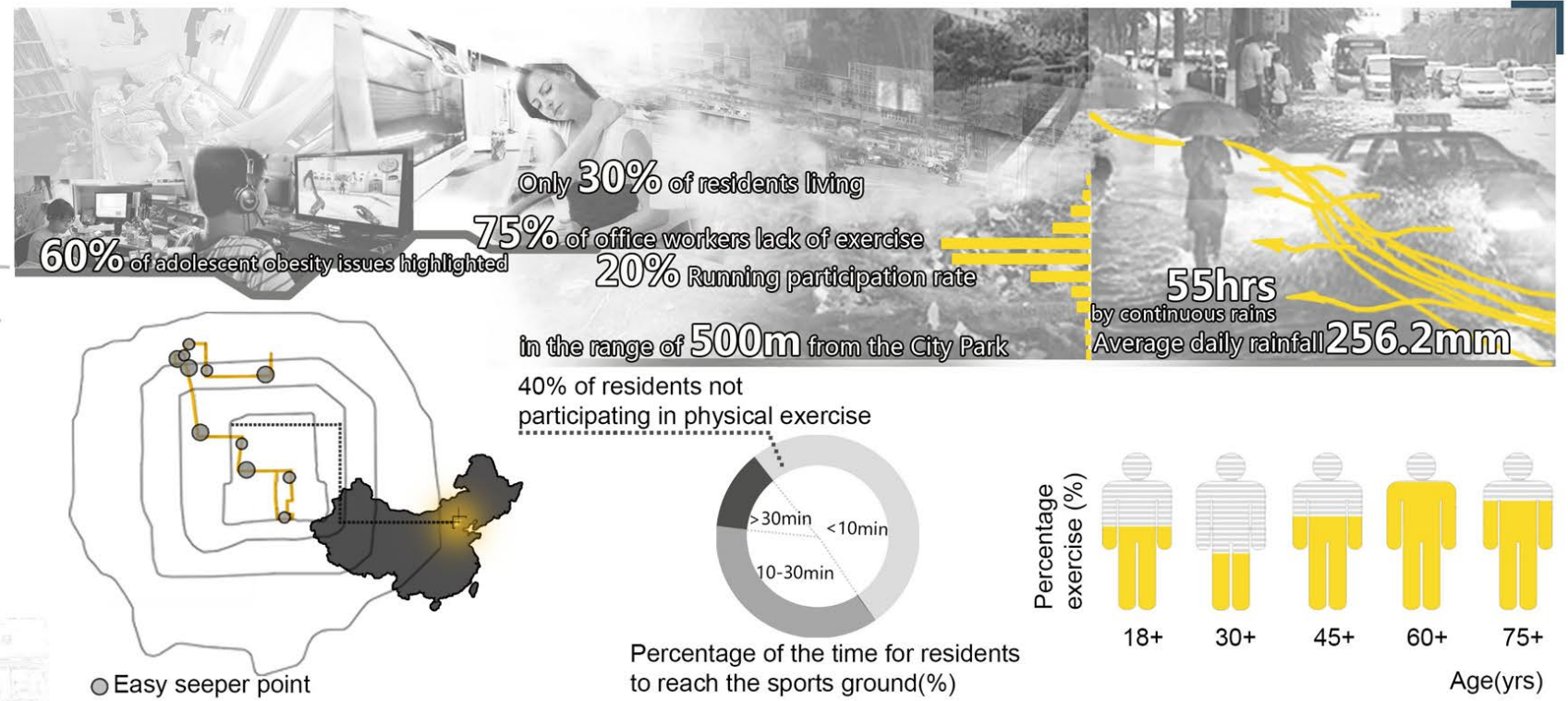
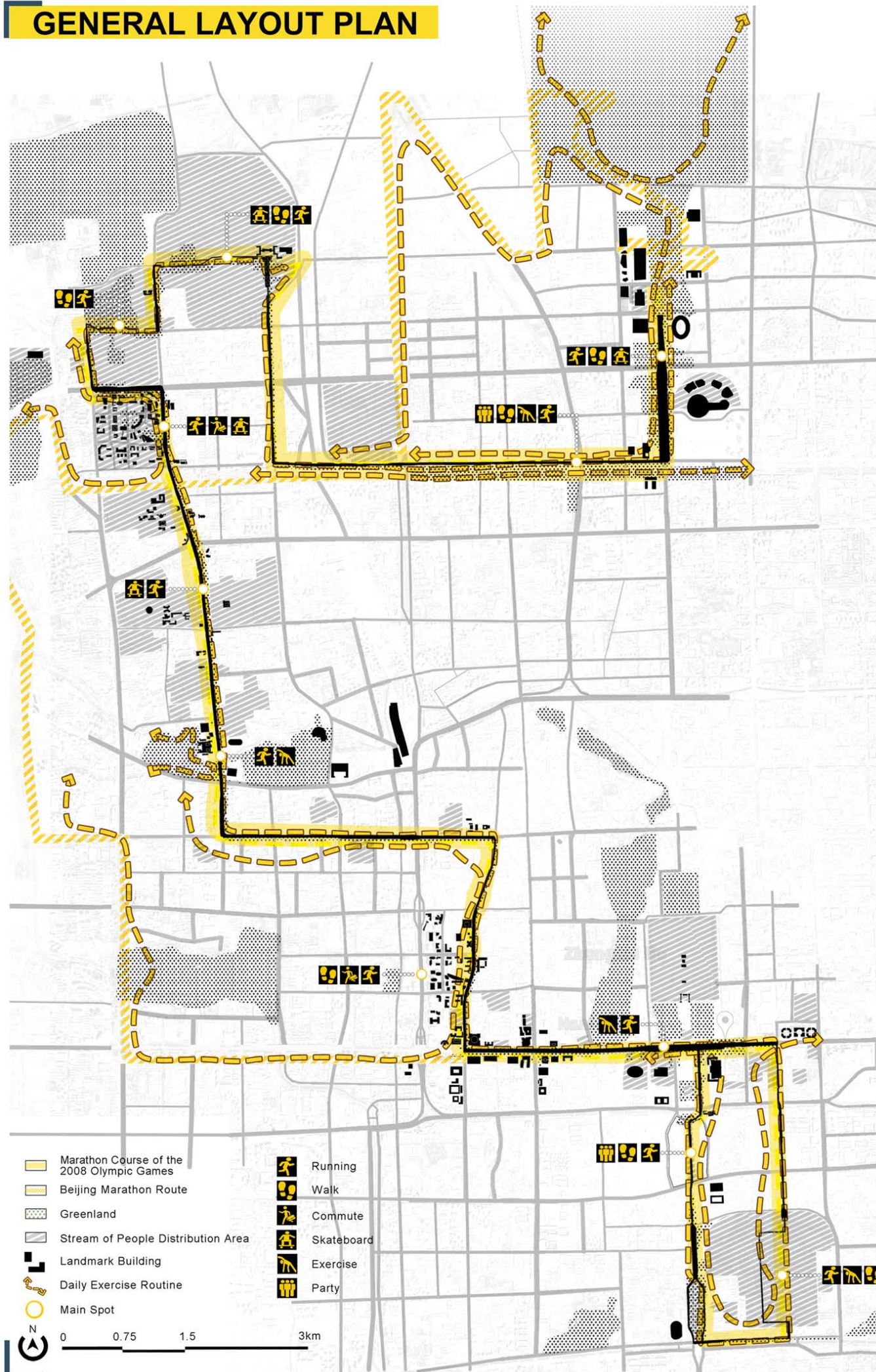
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Consult the web page <http://landscape.coac.net/>

# GENERAL LAYOUT PLAN



## BACKGROUND

Nowadays, people live with heavy pressure. Many teenagers and office workers are lack of exercise, with the bodies in a state of sub-health. Meanwhile, some residents who would like to exercise found no place.

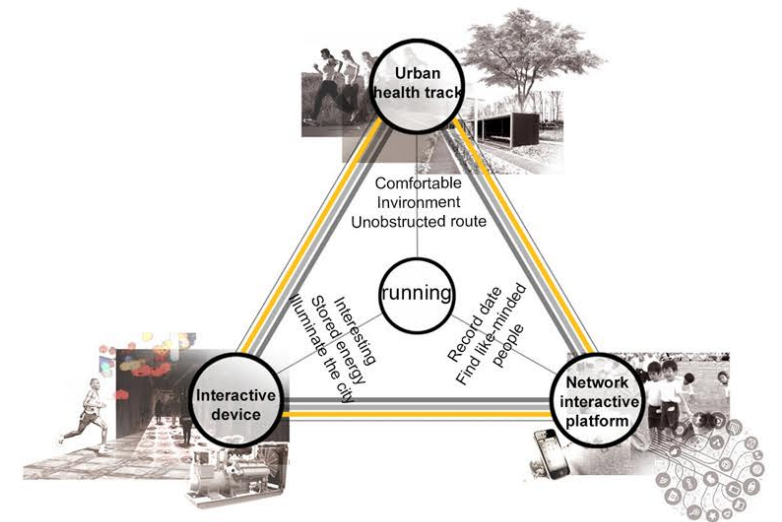
## PROSPECT

Based on the original marathon track in 2008 Beijing Olympic Games, we hope to build the Urban Health Track, in order to set up energy collection interactive devices, improve urban environment and promote healthy living.

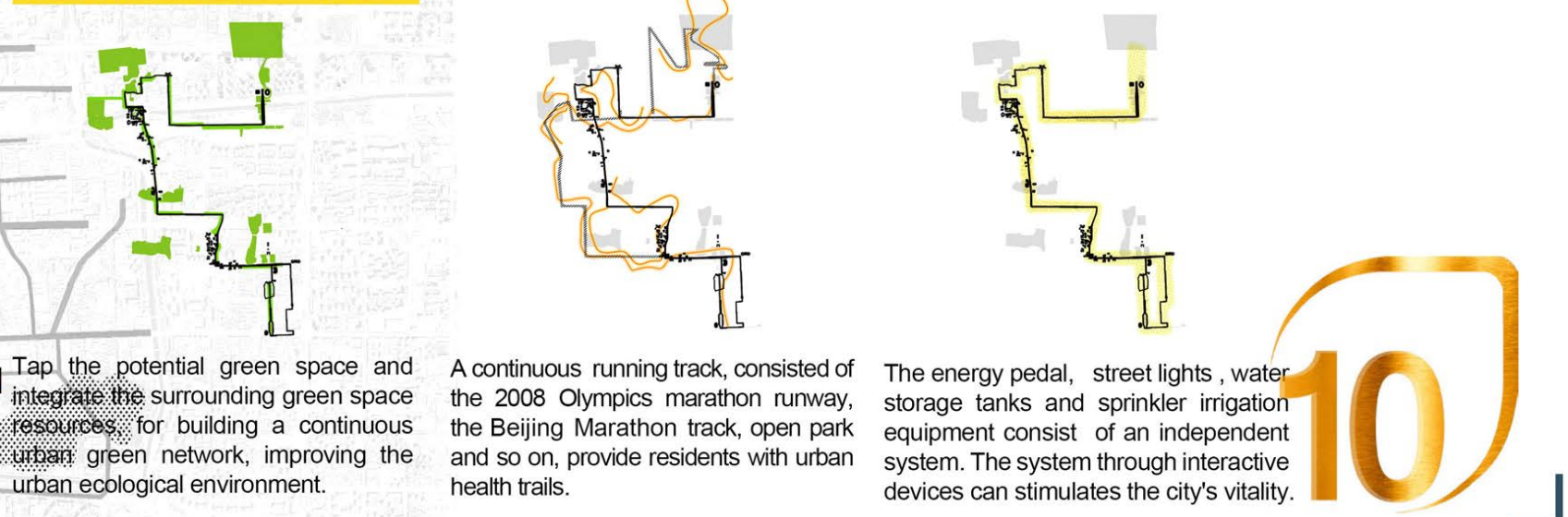
## STRATEGIES

1. Based on marathon circuit, by tapping the potentials green space, we set up running tracks, jointly build a slow system to improve the travel experience.
2. The devices setted along routes, collect vibration energy of exercise crowds, and convert it into electricity, used for improving urban environment and enriching citizen life.
3. With internet interaction, personal workout data are real-time recorded, strengthening citizen's enthusiasm.

## 01 PLAN STRATEGIES



## 02 MASTER PLAN



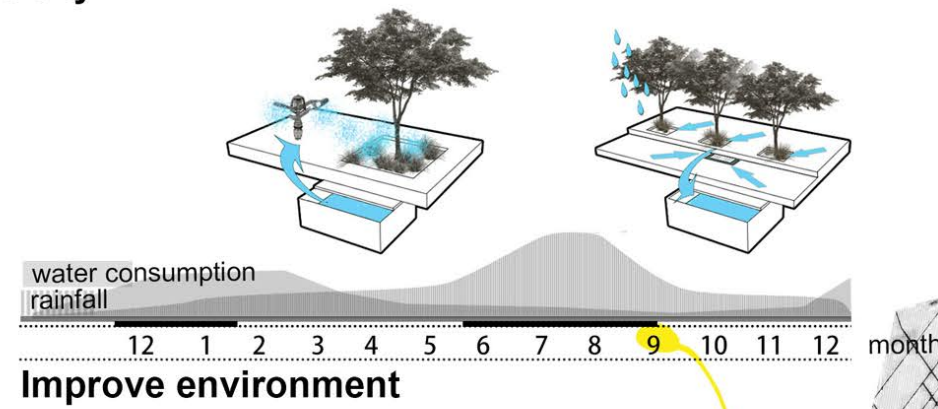
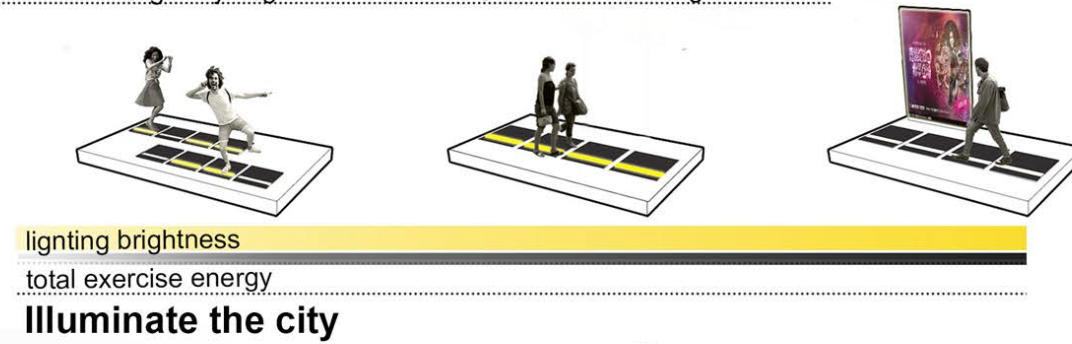
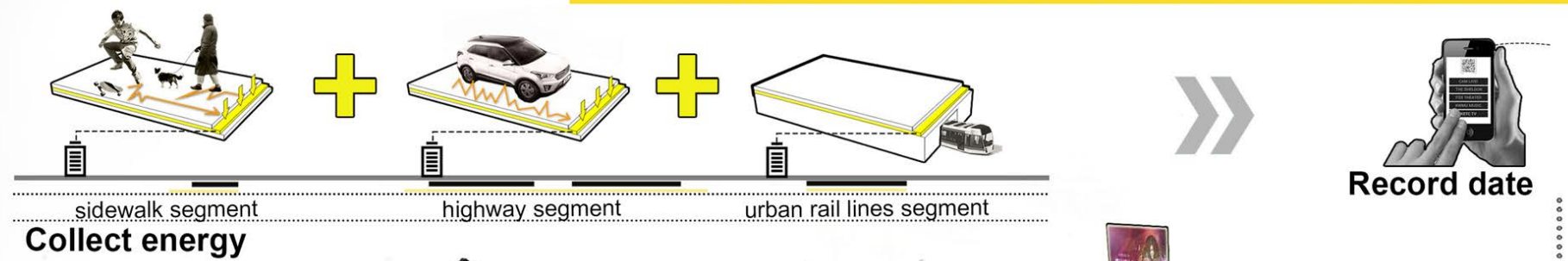
Tap the potential green space and integrate the surrounding green space resources, for building a continuous urban green network, improving the urban ecological environment.

A continuous running track, consisted of the 2008 Olympics marathon runway, the Beijing Marathon track, open park and so on, provide residents with urban health trails.

The energy pedal, street lights, water storage tanks and sprinkler irrigation equipment consist of an independent system. The system through interactive devices can stimulates the city's vitality.



# 03 INTERACTIVE DEVICE PLANNING STRATEGY



watering **2.64 trees**

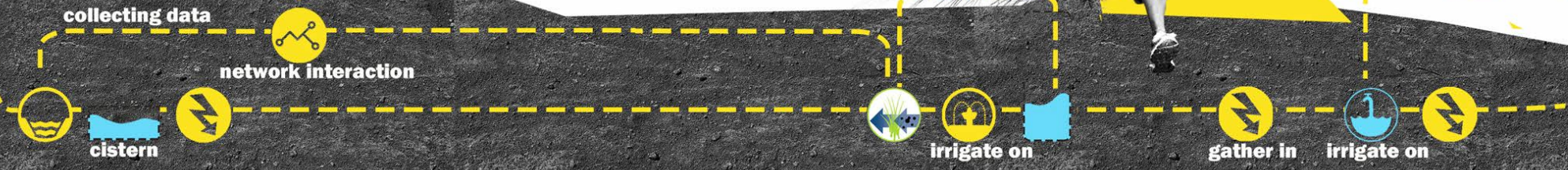
Sprinklering irrigation **117.5 gallons**

**1 hour** running 1 year

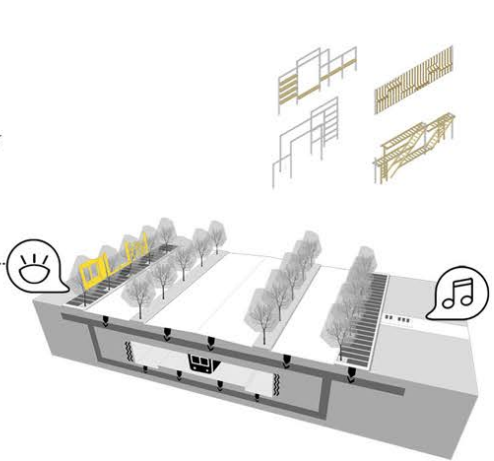
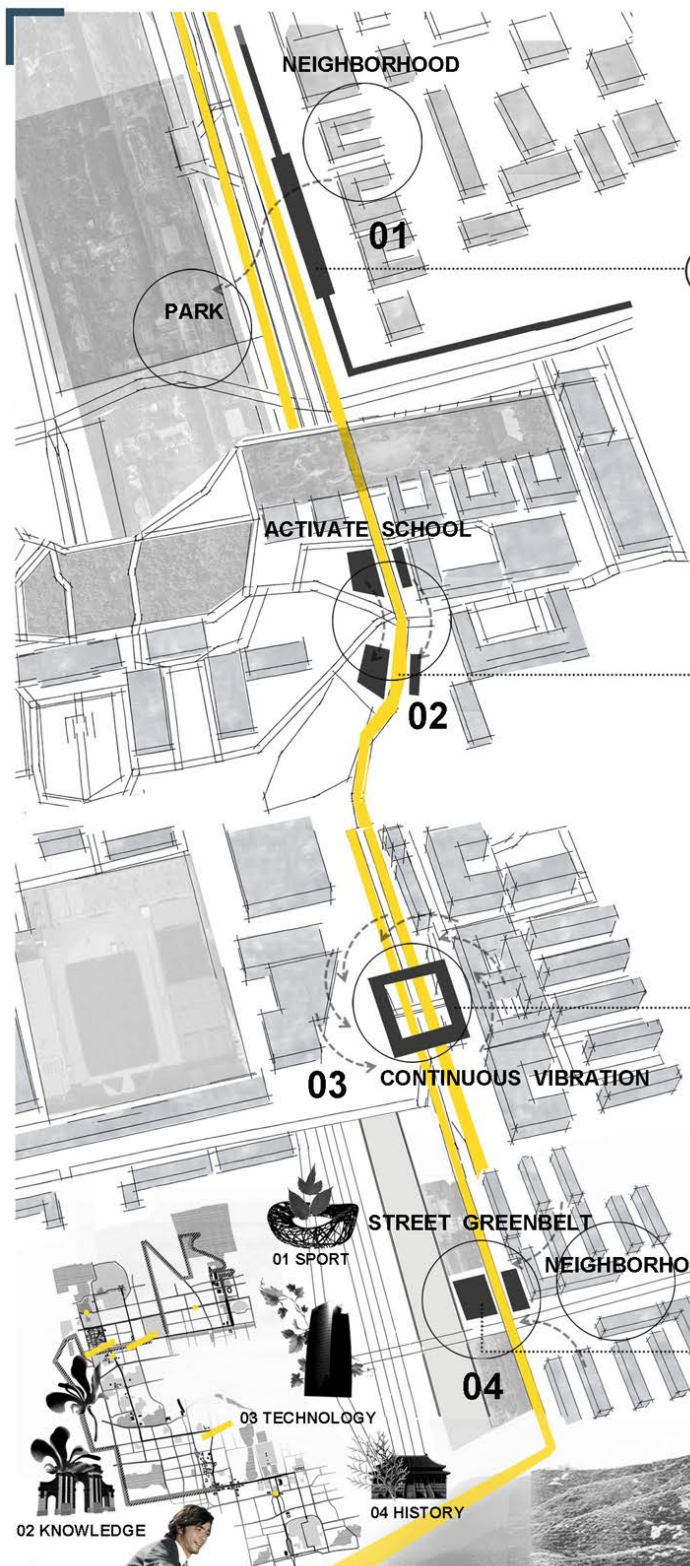
lighting **219 lamp bulbs** burning

**127,750 calories**

今日已产生能量  
**15796KJ**



**10**

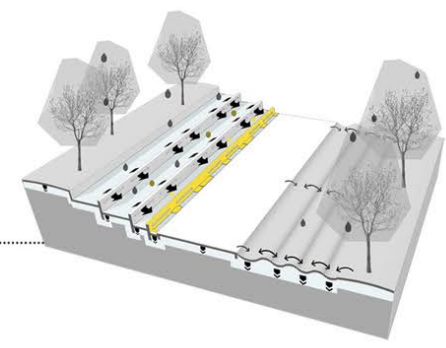
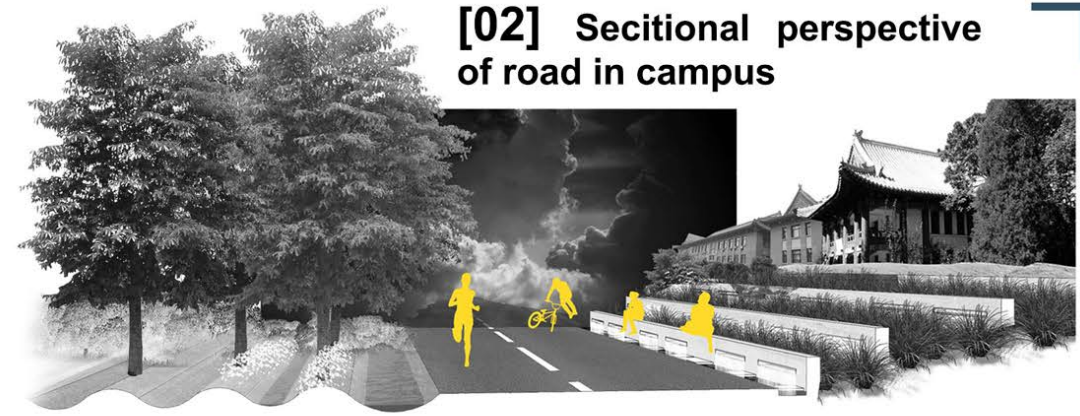


**[01] Fence park**

Image of fence park utilizes the extent between public and private walls renewed by residents to replace fences and provides space for activity, game, sociality and culture changeable, economical and recyclable energy provided by vibration caused by people walking, driving and underground.

- Plant
- - 
  -
- Facility
- - 
  - 
  -

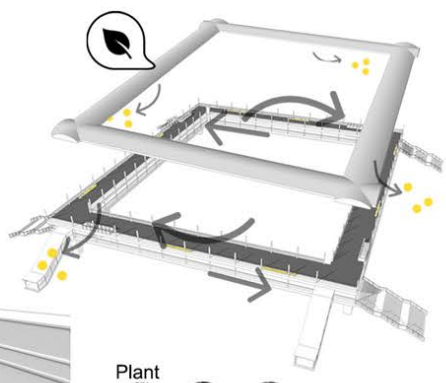
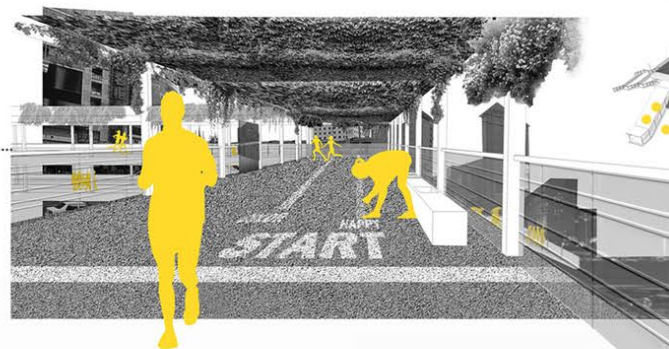
**[02] Sectional perspective of road in campus**



Standing water flowing into water tank below the ground by vibration flat lawn shapes to rolling land, slows down stormwater run off and spares more time for infiltration slope land shaped to step-like. Canopy trees capturing rainfall for evaporation and slowing down stormwater run-off.



**[03] Sectional perspective of 3D circular runway**



1st floor for passengers traffic, 2nd floor for people lack of exercise, with runways, seats and green climbing plants hung over the 2nd floor.

- Plant
- - 
  -
- Facility
- - 
  - 
  -

**[04] View of street park and mist spray**

Water in water-logged area flowed into pools. Energy collected by vibration making water into mist spray rigid corner turns into a street park.

