1 Problems

Site
Located on an old site by Shuigou Creek, the 110m river of Shuanghui. The location is surrounded by a complex fabric, consisting of an old sewage farm, an old district, some disposal sites, and an abandoned area that has not been used for several years.

Taking up large space in the industrial area and isolated from the surroundings, the sewage farm has become a “blind spot” of the city.

Several waterways have fallen into disuse and are neglected, while some wastewater treatment equipment has become obsolete and inefficient.

This leads to water pollution and the overwhelming of residents along these areas and threatening the water quality of Shuigou Creek.

In China, the technology of infrastructure used is to be hidden. Why not get along with the surroundings or even form a distinctive public space around it?

2 Strategies

Steps
- Improving the existing sewage farm for open space
- Reinforced the sewage farm to become a positive element of the city

Steps
- Improve the sewage farm to create a positive environment for the city
- Reinforced the sewage farm to become a positive element of the city

Steps
- The sewage farm can be developed into a park
- The sewage farm can be developed into a park

Steps
- Enhance the sewage farm into a positive element of the city
- Enhance the sewage farm into a positive element of the city

Steps
- Parkification sewage farm as a proposal to improve the water quality in the creek and offer public space for leisure, amusement and public services improvement

Composing Mode
Our proposal for a four-layer sewage farm park according to four strategies. To fulfil the idea of sustainable urban renovation and adaptive reuse are adopted to every layer: FROM wastewater treatment plants, technology, adaptation and eco-mixes.

Management Mode
Traditional sewage farm is a typical area assets with sustainable development initiative with sustainable heritage. Focusing with the urbanization strategy, the city center renewal, the management model for the sewage farm aims to re-activate the process of space pastiche about the sustainability generation with new art.

3 Solution

The layout proposes diverse connections between sewage farm and city; open and friendly access, a green spine along the creek, a wooden deck for boat traffic, and various kinds of open space with unique parks.

Up-and-down plank path make the sewage farm integrated into the park. The flow of water treatment displayed to the visitors, providing recreational and environmental education opportunities.

Open space provides numerous options for different ages, such as gym, playground, mini park, etc. The sewage farm serve as a “green Lung” for the city. The sewage farm can be a resting place for morning walk or evening jog, or even open air film and concert.

Some former industrial buildings along the creek will be transformed to museums, libraries, parks, and offices, others will provide space for urban function.

Discovered water tanks will be integrated into the landscape system for entertainment, containing cinema, clubs, socializing point, skating rink and cafes.

To connect both the original qualities of the future structures, a connecting sheet artwork will be used for modern addition, yet, industrial in character.

Besides the removal of existing equipment, we suggest creating a rain water circulation system, which helps to minimise coastal water use and environmental impacts nearby with two advantages: Capture is much more water as possible through wind-driven, porous surface and storage tanks. Offer a lot of opportunities for grey water reuse for irrigation and baths.

A pond and trenches are adopted to separate the working area and city area, sonorously to form and efficiently.

Bamboo and magnolia can be planted in retention spaces, collected to evolve vegetation preserved on the site.

Wetland will be collected along Shuigou Creek to purify the water through evaporation and transpiration.

In summary, the sewage farm can be developed into a city park with new life and attractive in environment.

Composed to traditional wastewater treatment plants, technology, adaptation and eco-mixes, sewage farm have potential for sustainable regeneration quality, performance and sustainable heritage, together adopted to urban regeneration and sustainability to make compatible civic activities.