10 hectares, 1700 m long, producing 2400 cubic meter of water per day, water for 5000 people.
The deep form of ecology: Haikou Meishe River
The regional strategy: Planning an ecological infrastructure, transforming gray into green integrating flood control, storm water management, habitats and recreational uses,
The Site Plan

Legend
- Meishe River Flow
- Terraced bio swales
- Water cleansing flow
- Surface runoff
The constructed wetland in Fengxiang Park: at foreground of the images, the terraces of subsurface flow wetland are densely covered with various plants the smell of the sewage is sealed underneath.
The constructed wetland in Fengxiang Park showing the details of the subsurface flow terraced wetland.
Post operational evaluation: Overall Removal effect of pollutant indicators in wetlands
Nature based solution to Soluitons Fiver Waters

浙江五水共治首例：金华浦江，浦阳江
将采砂场改造为内部树岛相连的湖泊

软化河道以增加其可达性和联系

绿道结合并展示文化遗产

02 总平面图：浦阳江河流绿道，10英里，60-390 英尺宽。现状照片和电脑效果图强烈对比出一条已衰退的河流廊道戏剧化的转变为一条丰富而连续的绿色基础设施。
Recovering Mother River: Qian’an Sanlihe Greenway

The Sanlihe River, 11 Kilometers long, Qian’an City, Hebei Province

Before
#7 “Green sponge” to remediate the soil contamination

60% of the urban soil is contaminated

Qiaoyuan Park, Tianjin City
改变PH值
Management of PH and water

PH Values

Water Flow
3 雨水流

![Average water pH](image)

<table>
<thead>
<tr>
<th>Location</th>
<th>pH Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet bubbles of Qiaoyuan Park</td>
<td>7.4</td>
</tr>
<tr>
<td>Lake of Qiaoyuan Park</td>
<td>8.5</td>
</tr>
<tr>
<td>Lake of Hedong Park</td>
<td>9.2</td>
</tr>
</tbody>
</table>

4 土壤 PH 值变化

![Trends of soil pH](image)

5 与其他水体对比，生态服务仿生技术对场地盐碱度明显改善

6 2011–2012 对每个水泡测定的 PH 值的变化结果碱性明显下降

![Biodiversity trends](image)

<table>
<thead>
<tr>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>---------</td>
</tr>
</tbody>
</table>

6 2011–2012 对每个水泡测定的 PH 值的变化结果碱性明显下降

![Percentage of native species](image)

<table>
<thead>
<tr>
<th>Percentage of native species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oiaoyuan Park</td>
</tr>
<tr>
<td>Hedong Park</td>
</tr>
<tr>
<td>tree</td>
</tr>
<tr>
<td>81%</td>
</tr>
<tr>
<td>91%</td>
</tr>
<tr>
<td>shrub</td>
</tr>
<tr>
<td>74%</td>
</tr>
<tr>
<td>90%</td>
</tr>
<tr>
<td>aquatic herb</td>
</tr>
<tr>
<td>100%</td>
</tr>
<tr>
<td>91%</td>
</tr>
<tr>
<td>Xerophytic herb</td>
</tr>
<tr>
<td>43%</td>
</tr>
</tbody>
</table>
#9 Green Solutions to Transform A City

Liupanhsui City, Guizhou, 贵州六盘水
The working wetland attracts thousands of visitors every day from the city and the far-reaching region.

Tourists and locals alike are enjoying the autumn weather in this view of the richly textured and colored tapestry.
宁波东部新城生态廊道 Ningbo East New Town
(World Bank supported)
# 10 Go Productive

China has 20% of the world’s population, but only 8% of world’s arable land, 10% of which was lost in the past 30 years due to urban development.
Water is harvested, crops (rice and buckwheat) are used for the landscape, and put studies in the middle of the paddies.
Rice fields are made penetrable using concrete narrow paths, that allow students and faculty to touch and feel the rice.
A professor on his way to class
The Rice Planting Day
Golden Rice becomes an icon: the rice produced on the campus is harvested and distributed as “Golden Rice,” serving both as a keepsake for visitors of the school, and also as a source of identity for the newly established, urban campus.
Pre-existing landscape: a remnant landscape patchwork surrounded with high density development
Revival of the traditional wisdom of field making, water management and crop rotating
A planting palate is programmed around the seasons that combining productive crops, traditional medical herbs, nutrient fixing plants, and beautiful meadow flowers.
#11 Value the Ordinary
Reuse and Recycle

*Hundreds of millions of square meters were built, and significant amount had been torn down. Thousands of villages and factories wiped out. What can you do?*

- annual building square meters (million sq.m)

---

**Destroyed:**
156 million square meters (2003)
Zhongshan Shipyard Park
11 hectares, built in 1950s, bankrupted in 1999, small but typical of socialist industry, 1500 lost their jobs.
#12 Begin From my home: Small solution to big problem

40 billion square meters of building, 2 billions increase every year, 99% of them are energy inefficient, how can we help?
The vegetable garden: productive ecosystems that provide fresh fruits and vegetables for the kitchen
Community education: Small solution to big problem
Small solution to big problem
This home collects 52 tons of rain water saves 2000 KW of electricity produces 32kg of vegetable

If every building is green, we can save the energy equivalent to 10 Three Gorge Dams, 30% of national energy consumption
We think like a king, but act like peasants

Peasants who change the national landscape

Turenscape Group Photo
Bring Nature to city to create deep forms, with city and nature in harmony:

Through Planning, Design and Engineering and management

Thank you!