URBAN NATURE
Concepts
Concepts:
Harmony

Urban & Nature
城市与自然

Human & Animals
人与动物

Activities & Environment
人类活动与环境
Programs
Zoo
Why we located zoo in Shougang Area?

Animals' poor living condition
动物的生活条件很差

Traffic problem
交通问题

Business requires more land
商业发展需要更多用地

......
Zoo

Why we located zoo in Shougang Area?

- Four subway stop
  四个地铁站

- East-west axis
  北京城的东西轴线端点

- Enough land
  足够的用地

- Industrial landscape
  工业景观

……
What kind of zoo should be here?
动物园的种类

Urban zoos
城市动物园
Open-range zoos
郊野动物园
Safari parks
野生动物园
Animal theme parks
动物主题公园
Rescues and sanctuaries
自然保护区
Petting zoos
儿童动物园
Specialized zoos
专项动物园
Roadside zoos
路边动物园

Our zoo
城市公园
the Zoo in the Future

未来的动物园

Conversation, Education, Recreation, Conservation, Research...

Industry Area Reuse
工业区再利用

Riverside Openspace
滨河城市公园

Urban Safari Park
城市中的野生动物园
What will a Zoo Bring to the site and Beijing?
动物园能带来什么？

Tourists

Beijing Zoo, 7,000,000 tourists per year, 12,000,000 tourists in 1984.
北京动物园，年游客量700万，1984年1200万

Forbidden City, the most frequented tourist attraction in China, 8,760,000 tourists per year.
故宫，全国之首，年游客量876万

Amusement park in Shenzhen, 3,000,000 tourists per year.
深圳欢乐谷，年游客量300万

Unlike World's Fair and Olympic Park, zoo is a permanent program.
动物园是一个常盛不衰的项目
## What will a Zoo Bring to the site and Beijing?

### 动物园能带来什么？

<table>
<thead>
<tr>
<th>Zoo name</th>
<th>Annual attendance</th>
<th>Admission fee</th>
<th>Revenue (total admissions fees; operating expenses unknown)</th>
<th>Staff size</th>
<th>Attractions (separate fee?)</th>
<th>Separate fee amount</th>
<th>“Claim to fame”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronx Zoo</td>
<td>2 million</td>
<td>$15/$27 POP pass</td>
<td>$30,000,000 x 6.7 = 207,000,000 yuan</td>
<td></td>
<td>Skyfari Monorail safari</td>
<td>$3</td>
<td>$4</td>
</tr>
<tr>
<td>Riverbanks Zoo</td>
<td>900,000</td>
<td>$9.75</td>
<td>$8,775,000 x 6.7 = 58,792,500 yuan</td>
<td></td>
<td>Hiking trail 3D theater Botanical Garden Adventure tours Animal rides Carousel</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Woodland Park Zoo</td>
<td>1,070,000</td>
<td>$11/$15</td>
<td>$913,000</td>
<td>370 full- and part-time employees 110 seasonal employees</td>
<td></td>
<td>$0</td>
<td>$20 for members/ $25 for non-members $4 $1</td>
</tr>
<tr>
<td>Beijing Zoo</td>
<td>10,000,000</td>
<td>15 yaun</td>
<td>150,000,000 yaun / 6.7 = $22,388,059.8</td>
<td></td>
<td>Pandas</td>
<td>5 yuan</td>
<td>Largest animal park in Asia (attendance)</td>
</tr>
</tbody>
</table>
What will a Zoo Bring to the site and Beijing?
动物园能带来什么？

Tourists—restaurants—recreation—Shops—housing

Housing—residents—supermarkets—shopping malls

More tourists—expositions—offices
What will a Zoo Bring?
动物园能带来什么？

Mix used center, open space for whole city, international zoo for world.
混合功能中心，北京市的城市公园，世界性的动物园

People come here because they can stay with animals, they can be close with nature, they can have some entertainment, they can live, they can work, they can go shopping...

Beijing citizens rarely go to the current zoo, but they will go to the new one because it is a riverside open space.
北京居民很少去动物园，但如果这里成了一个城市公园，将吸引更多的人前来
Master plan
Master plan:
hotel “bamboo”
central park
central park
Illustrative plan
Illustrative plan:

Plan
Illustrative plan:

Use
Road
Green
Details
Details: Panda Area

Plan
Plan: hotel third floor
Section
Details: Furnace 4

Section
Soil Remediation
Soil Remediation:

Source control treatment

External site & Internal site
场地内或场地外
Source treatment technologies

处理方法
1) evacuation & landfill;
2) air sparging;
3) soil vapour extraction;
4) low temperature thermal desorption;
5) incineration;
6) surface capping and containment;
7) natural attenuation;
8) bioremediation;
9) vitrification;
10) dechlorination;
11) soil washing;
12) enhanced thermal conduction;
13) oxidation of cyanide;
14) thermal desorption (including excavation and pre treatment)
Solutions for each area:

多环芳烃 (Hydrocarbon):
1) BIOREMEDIATION
2) INCINERATION
3) VITRIFICATION

挥发性有机物 (Volatile organic compound):
1) BIOREMEDIATION
2) SOIL VAPOR EXTRACTION
3) THERMAL DESORPTION
4) VITRIFICATION

苯系物 (Benzene):
1) BIOREMEDIATION
2) INCINERATION
3) SOIL VAPOR EXTRACTION

重金属 (Heavy metal):
1) VITRIFICATION
2) SOIL WASHING

氰化物 (Cyanide):
1) SOIL WASHING

Ⅰ is the most polluted area for iron;
Ⅱ is the area for steel and electricity;
Ⅲ is the area for storage;
Ⅳ is the area got the least pollution.
Thanks

谢谢