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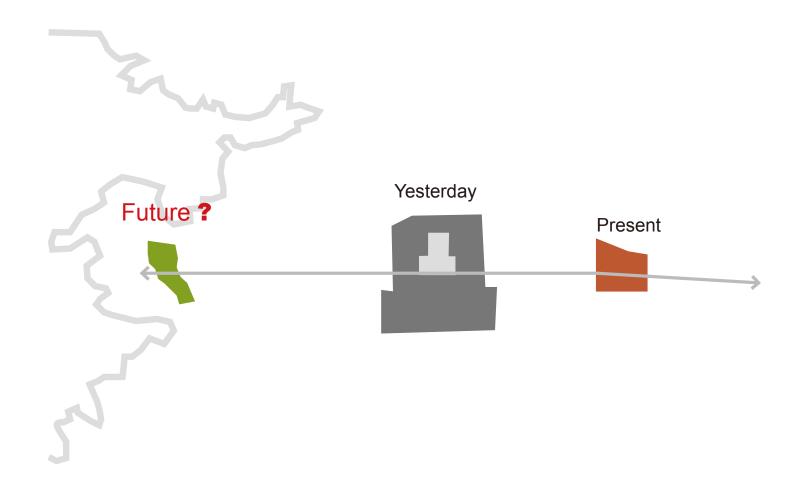
11.307 Beijing Urban Design Studio Summer 2008

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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

Programs:

Zoo

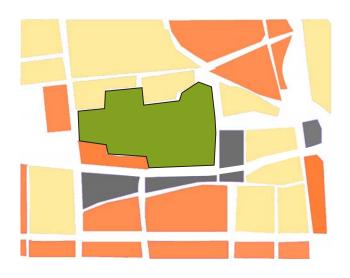
Why we located zoo in Shougang Area?

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?

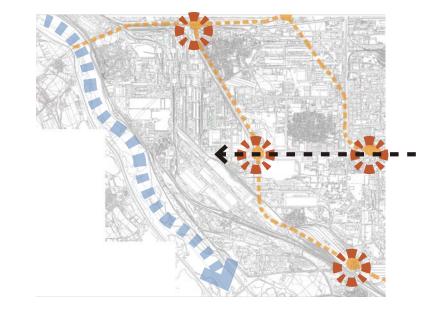
Four subway stop 四个地铁站

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 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



Our zoo 城市公园

Petting zoos 儿童动物园

Specialized zoos 专项动物园 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?

Zoo name	Annual attendance	Admission fee	Revenue (total admissions fees; operating expenses unknown)	Staff size	Attractions (separate fee?)	Separate fee amount	"Claim to fame"
Bronx Zoo	2 million	\$15/\$27	\$30,000,000		Skyfari	\$3	Largest urban
		POP pass	x 6.7 = 207,000,000 yuan		Monorail safari	\$4	zoo in the US – 265 acres
Riverbanks Zoo	900,000	\$9.75	\$8,775,000 x 6.7 = 58,792,500 yaun		Hiking trail 3D theater Botanical Garden Adventure tours Animal rides Carousel	\$0 \$0 \$0 \$20 for members/ \$25 for non- members \$4 \$1	
Woodland Park Zoo	1,070,000	\$11/\$15	\$913,000	370 full- and part-time employees 110 seasonal employees	Ca. Gase.	Y .	
Beijing Zoo	10,000,000	15 yaun	150,000,000 yaun / 6.7 = \$22,388,059.8		Pandas	5 yuan	Largest animal park in Asia (attendance)

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.

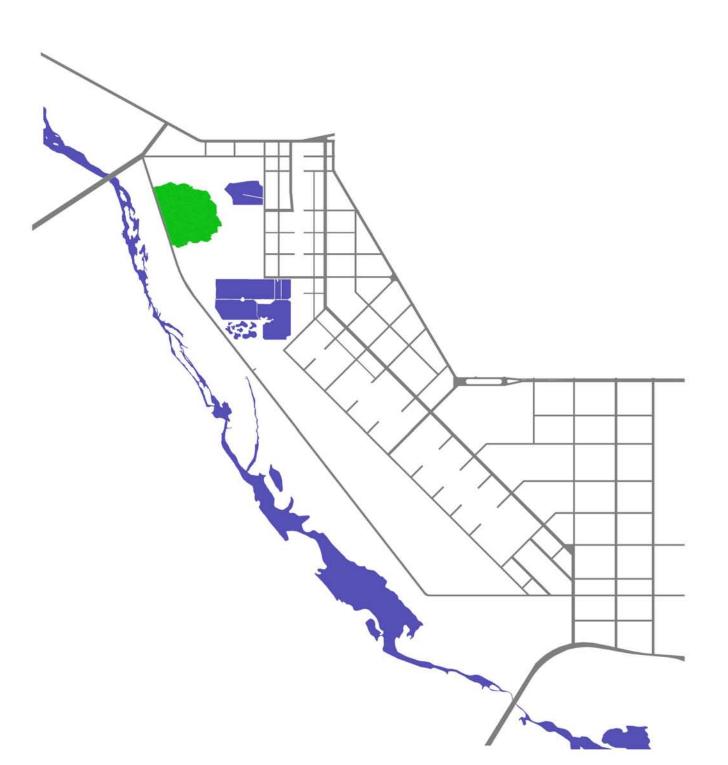
北京居民很少去动物园,但如果这里成了一个城市公园,将吸引更多的人前来

Master plan

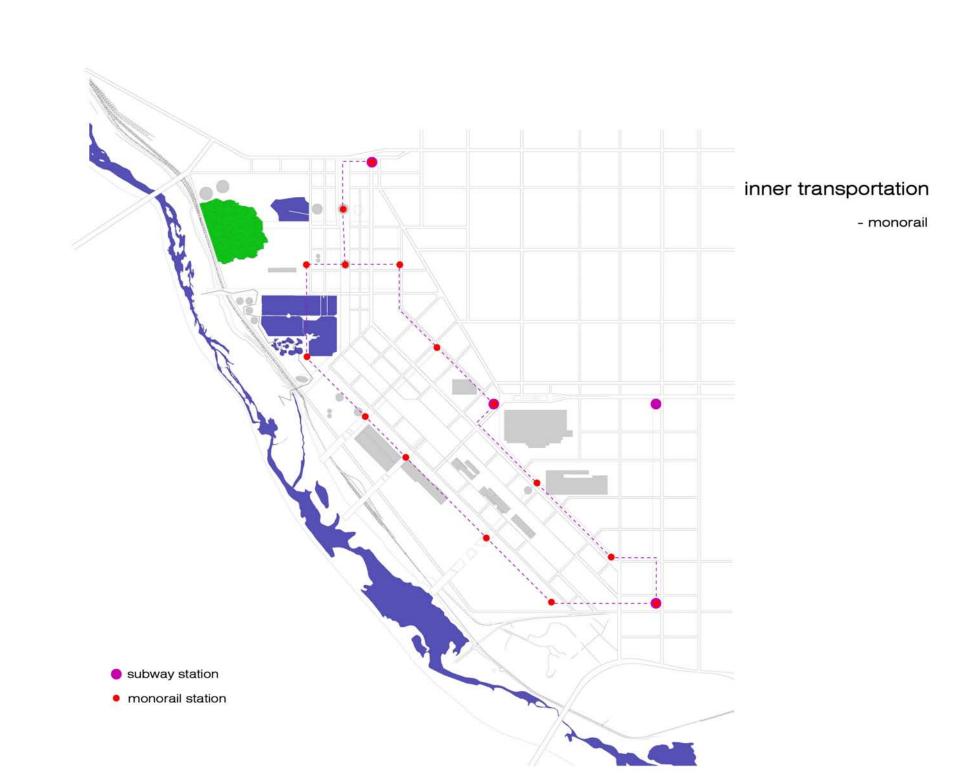
Master plan:

master plan





roads

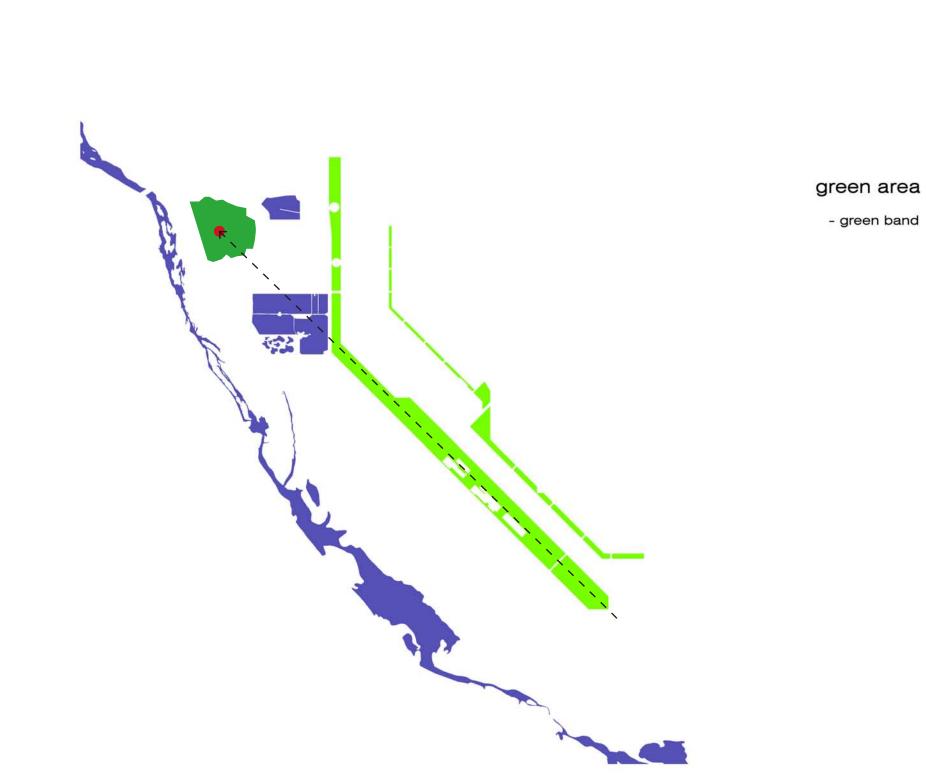






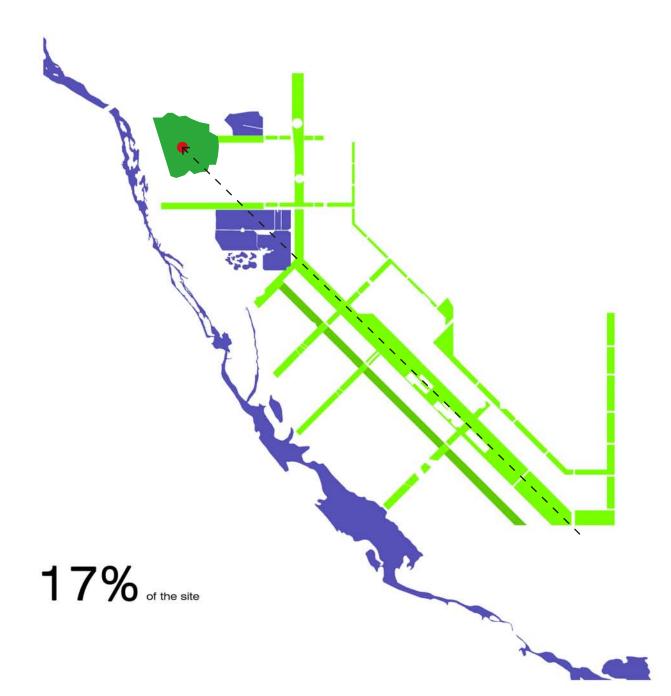
green area

- central park



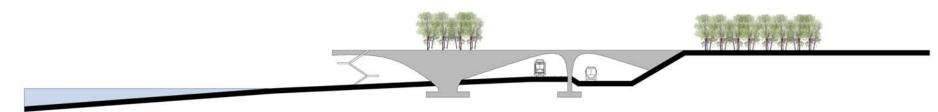
green area

- green corridor



section of green corridor



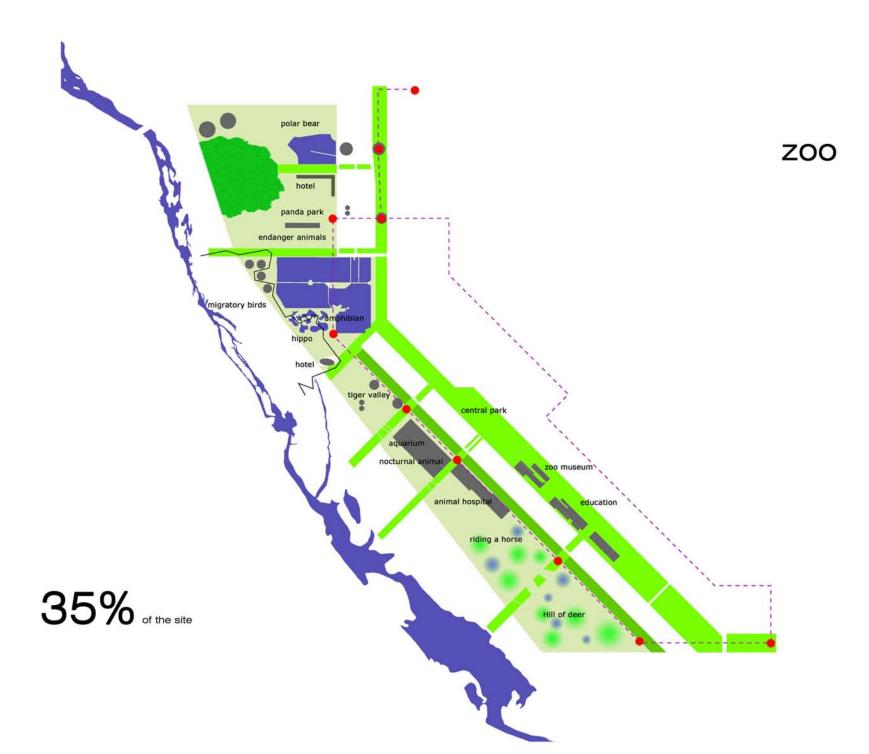


alt. 2



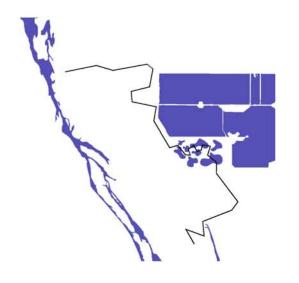
Z00

- "urban safari"



marsh





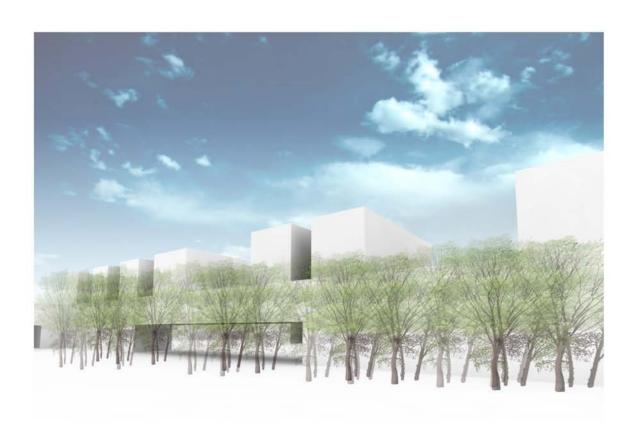


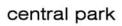




hotel "bamboo"

central park







Illustrative plan

Illustrative plan:

Plan

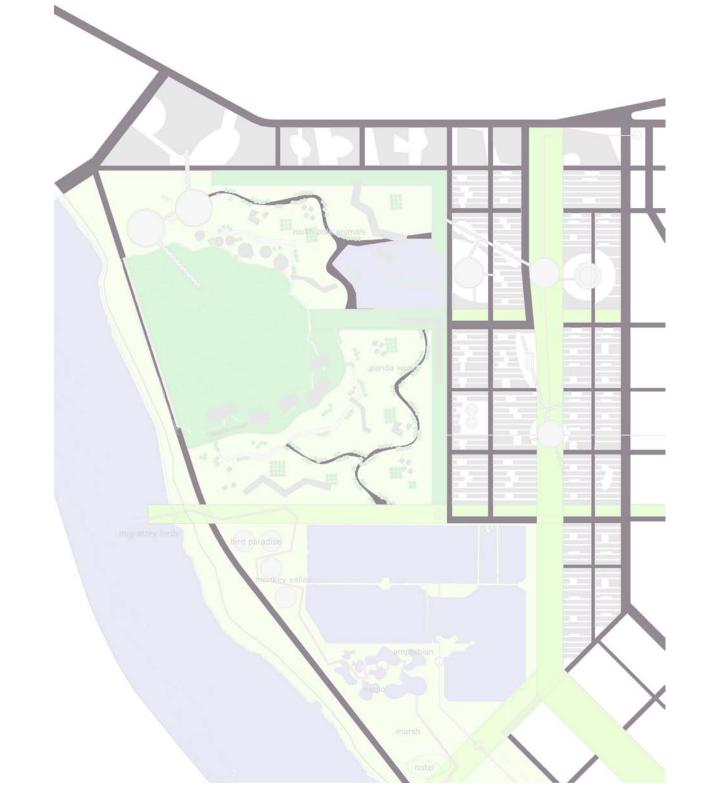


Illustrative plan:

Use



Road



Green



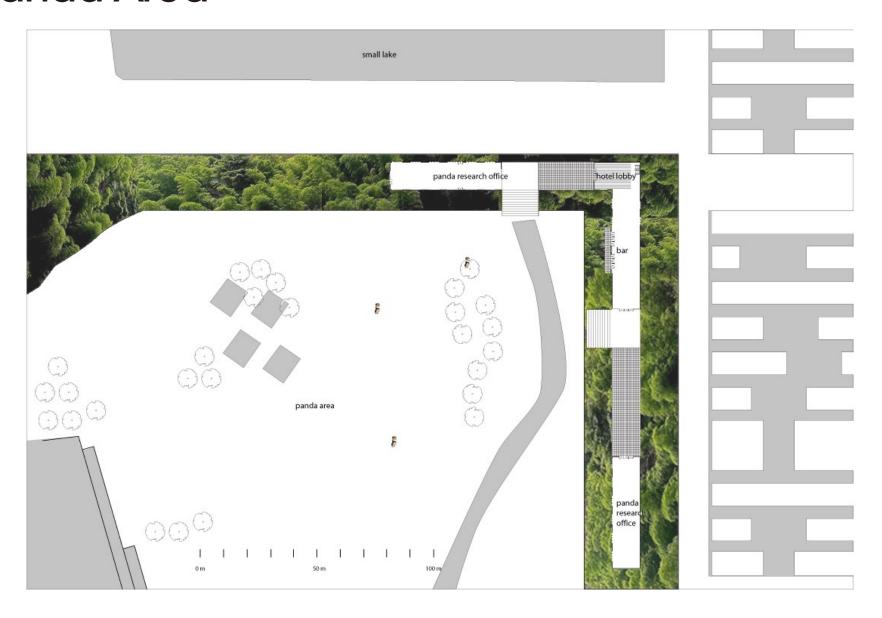
Path

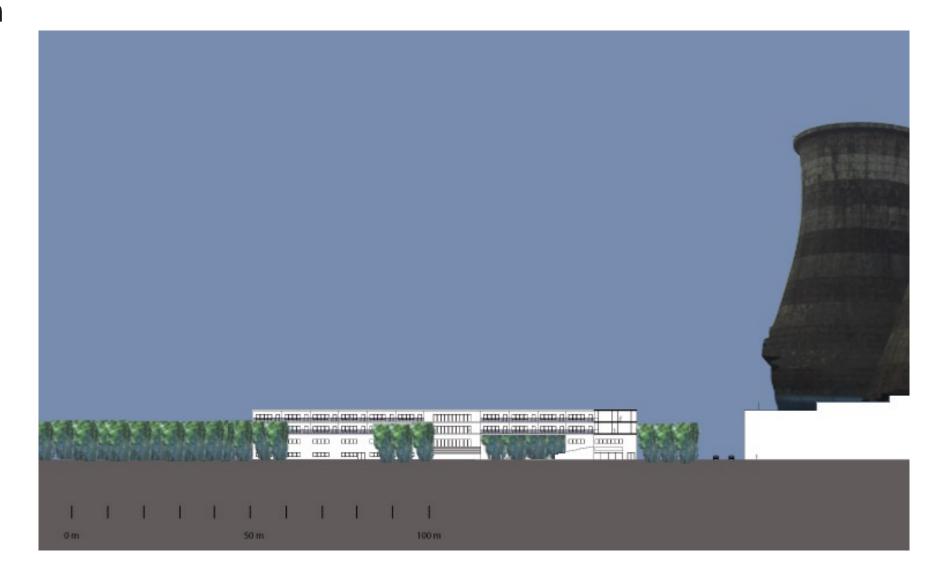


Details

Details: Panda Area

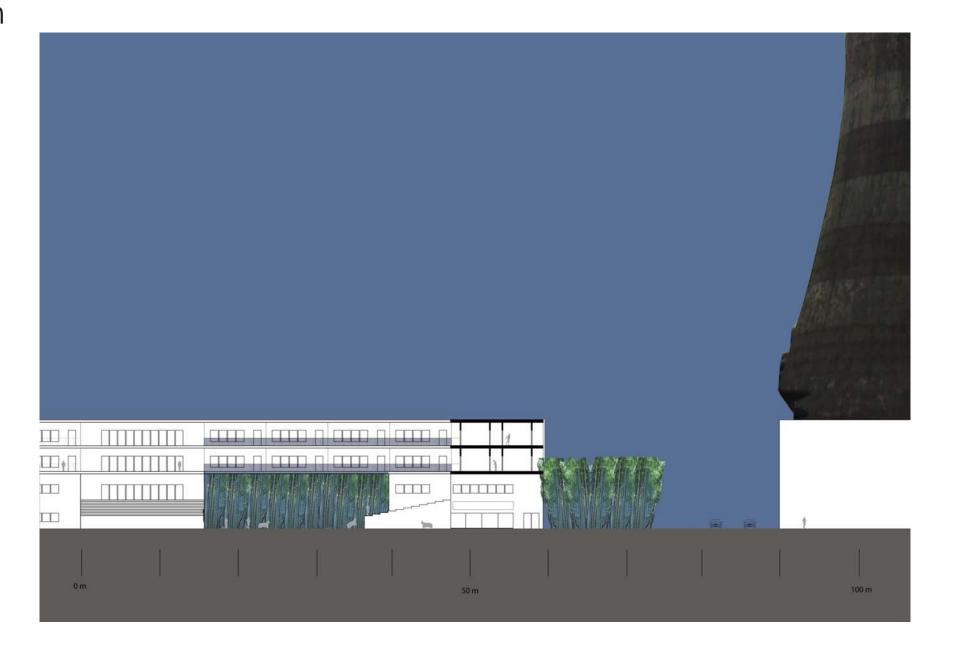
Plan



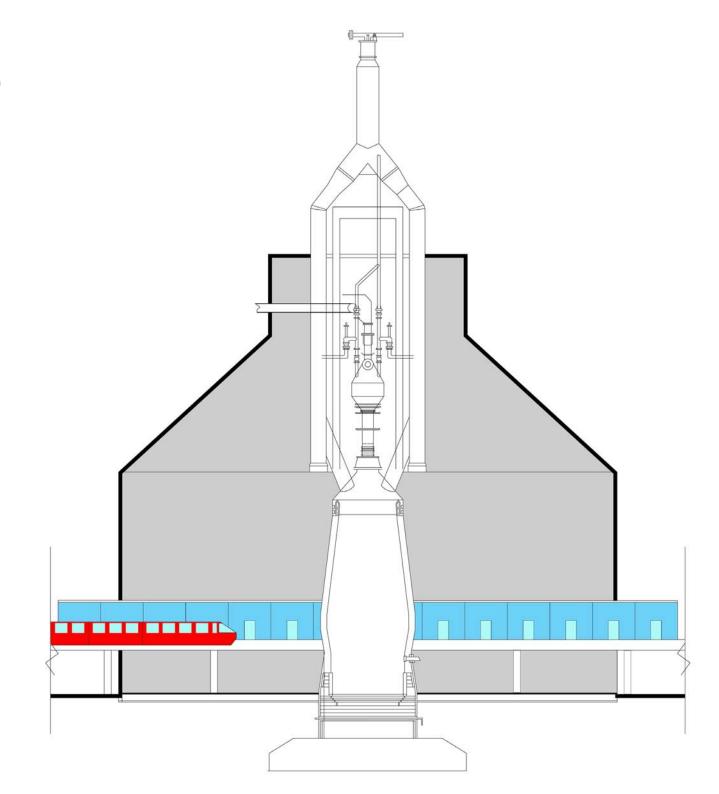


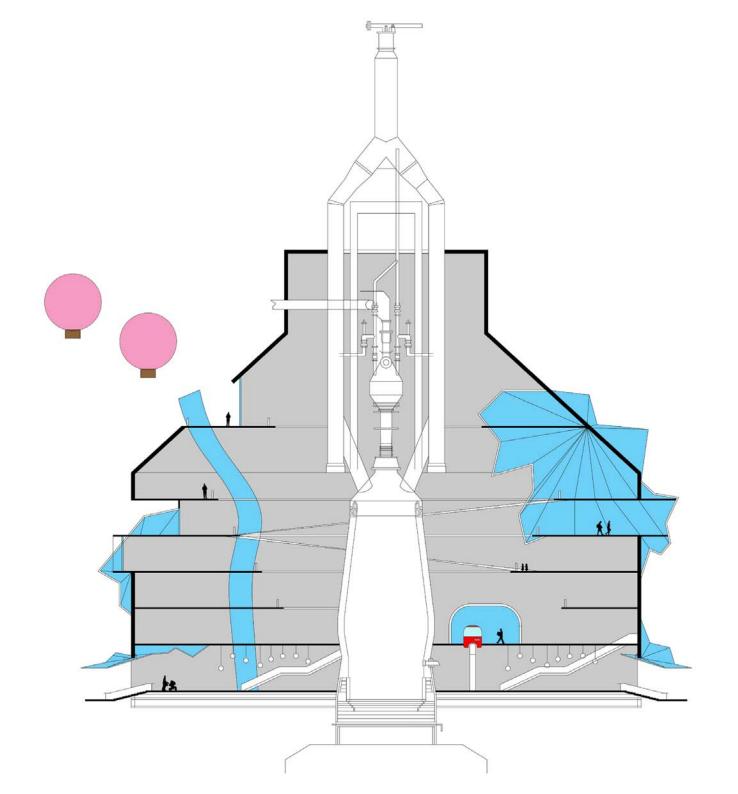
Plan: hotel third floor





Details: Furnace 4





Perspective



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:

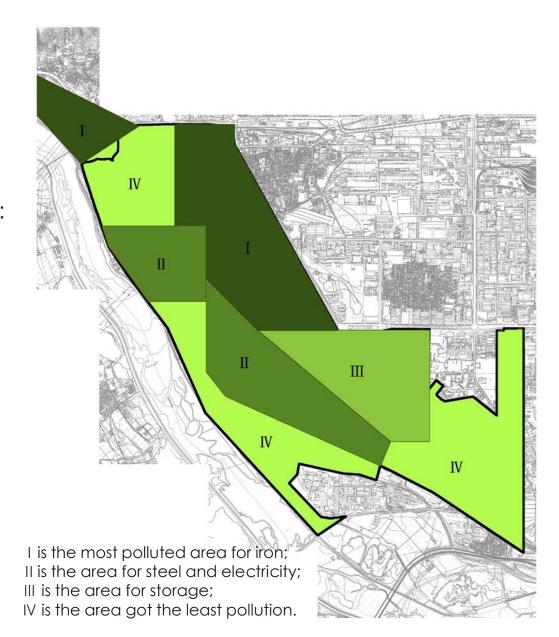
- 1) BIOREMEDIATION
- 2) INCINERATION
- 3) VITRIFICATION

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



Thanks 谢谢