CASE STUDY:
Village Re-development in the Chengdu Plain

Through the Lens of the Living Building Challenge

Jiang’an Village, Huayuan Township, Pi County, Chengdu, Sichuan
PUBLIC PARTICIPATION PROCESS

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ALTERNATIVES
可供选择的方案

PUBLIC PROCESS
公共参与

PUBLIC
公共参与

LIVING BUILDING
LIVING BUILDING

Optimized
优化选择

ALTERNATIVE
建立在有生命力建筑

Preferred
优先选择

FINAL CONCEPT
最终概念

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LAND USE/ URBAN FORM
用地/城市形式

POLICIES & PRACTICE
政策实践

DESIGN GUIDELINES
设计标准

ECONOMIC 
ECONOMIC

并列

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Public process

Photo from the CURA

http://mymiamidade.org/image/image_gallery
Important perspective
Planning Choices

Alternative Developing Patterns  可供选择的发展布局形式
Assumption of Planning Choice
Preserved Linpan Area: Restored Traditional Lifestyle and Landscape

林盘保存区域：修复的传统生活方式和景观

if machinery is introduced, it uses sustainable fuel

如果引入机械，农民应该使用可持续性的燃料

maintain forests for materials

保留树林材料

maintain crop diversity

保持农作物多样性

maintain ecological diversity for natural pest control

保持生物多样性以控制虫害
SETTLEMENT CONCEPT
Harvest sun for energy production and hot water.

Rapidly renewable materials (local)

Collect rainwater

Promote ventilation

Local waste treatment

Harvest biogas

Lowest scale possible?
Petals
Principles: Limits to Growth

Recommendations:
- concentrate development around existing infrastructure
Principles: Car-free living
Recommendations:
  - More active paths (maybe picture of small paths)
• Recommendations:

Photovoltaic

Biodigester
Case study: Hammarby Process, Denmark
Recommendation

- Localized the water system
  - Harvesting the water on site
  - Treating the water on site
  - Implementing a natural filtration system
  - Use open space near the river for water treatment
Case study: Nanhu, Reimaging the Agricultural Village
Water
Accessibility

Promote walking and biking transportation

Access to natural amenity
Material

- Use traditional, local building materials such as bamboo, clay (all should be produced locally)
- Also address maintenance of traditional materials - develop a program to upgrade these materials and improve this technology of this local material (also an employment opportunity)
- Develop participatory cultural process that teaches traditional building techniques
Case study: Vernacular design principle building, Anlong Village
Case study: Self Sufficient House, Shijia Village
• Public Participation in planning process
• Giving equal access to public space—particularly when deciding who stays, who is re-located
• Continue community building activities
• Use local construction companies
Recommendations:
- Maintaining and improving the current green space
- Encouraging local art and craft and incorporate in the new development
Questions for Further Research

- What is the optimum size of fields for agricultural efficiency?
- More research to study the ecology of the traditional Lin-pan landscape and the ecosystem services it provides.
- Where are the sacred space and how are they used?
- What are the major community – building events? As these modernized how will you continue to build this sense of community?
Thank you!
谢谢你们