

Fascination

Identity, festival, climate change, and waterfront landscapes...

A unique way to celebrate Qingming Festival

Qingming Festival is a traditional Chinese festival





Qingming Festival in Yuantong Town

Qingming Festival in other area

A unique place to celebrate Qingming Festival





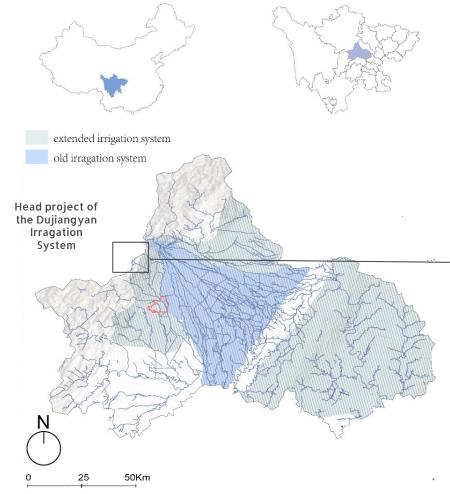
Qingming festival in Yuantong, Chengdu, Sichuan, China

Content

- 1. Introduction
- 2. Problem statement
- 3. Research question
- 4. Methodology
- 5. Analysis
- 6. Design

1 Introduction

- 1.1 District context
- 1.2 Regional context
- 1.3 Town's context



1.1 District context Qingming Festival and its connection to water and agriculture



Water Release Ceremony at the head project of the Dujiangyan Irrigation System during Qingming Festival

people attending the Town's Qingminghui population in 2010 20,000 600,000 extended irrigation system Wei River **Bo River** old irragation system Yuantong Wenjing River town River 2Km

1.2 Regional context Yuantong's strategic location



Qingminghui was the largest agricultural product trading market in the western Sichuan Province.

1.3 Town's context Festival, river, and the cultural landscape of Yuantong

Analysis

Residents gathered on the street. They could watch the show while chatting

Methodology

Pray to the river god for a good harvest

Design





Street vendors



people hold a temporary market in the middle of the river, selling tools and food



Sichuan Opera show





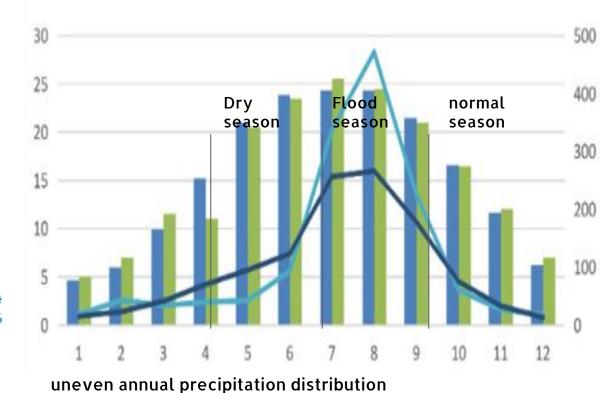
2 Problem field

- 2.1 Climate change
- 2.2 Need for more festival space
- 2.3 Loss of identity
- 2.4 Conclusion

Introduction Problem statement Research Question Methodology Analysis Design

2.1 Climate change

Coexistence of droughts and floods



Monthly Average temperature in 1994
Monthly Average temperature in 2016
Monthly Average Precipitation in 1994
Monthly Average Precipitation in 2016

2.1 Climate change

Exacerbation by climate change



Dry season Flood season

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2.2 Need for more festival space

Tourism development

"Yuantong was rated as a 4A tourist destination in 2014"



有着"小成都"之称的元通古镇,在打造过程中坚持修旧如旧的原则。古镇大部分居民延续了惯有的生活方式,遛鸟、茶馆、川戏、集市、美食,这些老成都生活元素都在这里展现得淋漓尽致。秉持修旧如旧的原则,在景区业态创建过程中,规范古镇茶馆,配合元通独特的文化打造特色集市,完善古镇夜间业态,丰富吃住行游购娱,营造老成都生活体验度假氛围。历史上,元通古镇被称为"活着的清明上河图"。待古镇打造完成时,元通古镇将以其独有的民风民俗、历史人文、院落故事等元素集合而成为成都市民领略千年古镇昔日荣光的又一好去处。(赵荣昌 记者 粟新林)

2.3 Loss of identity

The removal of the natural gravel land



The gravel land was removed

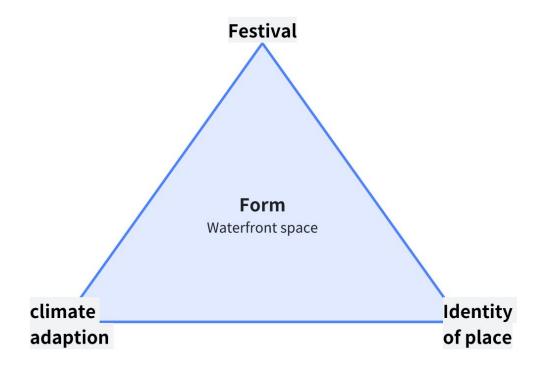
The festival was moved to the streets

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2.3 Loss of identity



2.4 Conclusion



3 Research question

- 3.1 Main question
- 3.2 Subquestions

3.1 Main question:

Given what was previously discussed, the following questions arise:

How to redesign waterfront spaces for the festival along Xi River in Yuantong town through climate adaptive water management considering the identity of landscape?

3.2 Subquestions:

1. What water management techniques can be considered to restore the river's climate adaptability?

2. How do the form of waterfront public spaces benefit the new water management and facilitate the connection between festival and river?

3. How to enhance spatial experience to reveal the interaction between people and the river now and in the past?

4 Methodology

- 4.1 Theory backup
- 4.2 Theoretical framework
- 4.3 Research structure

4.1 Theory backup:

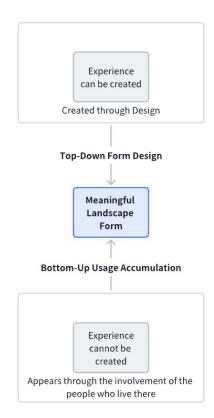
the meaning of landscape

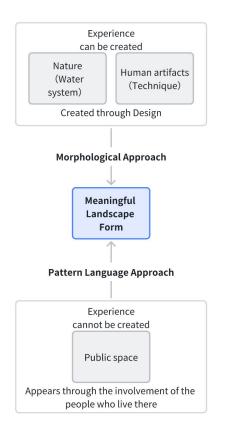
the production of space

the identity of place

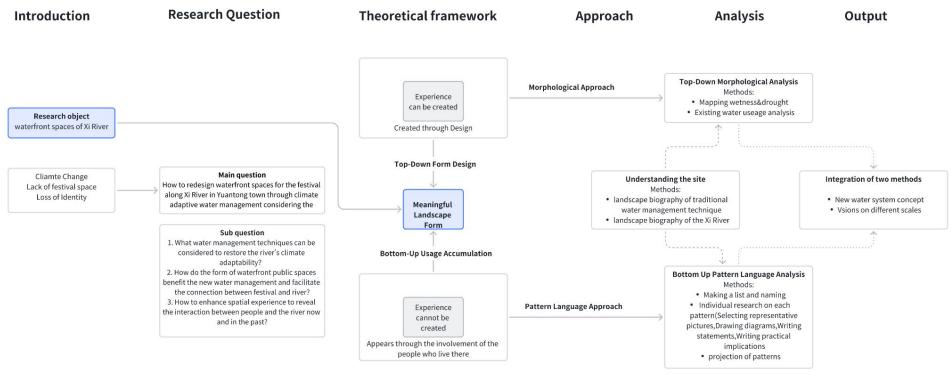
climate adaptation

4.2 Theoretical framework:





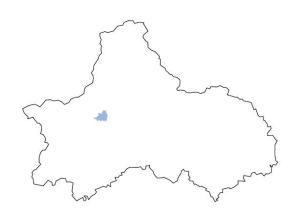
4.3 Research structure:



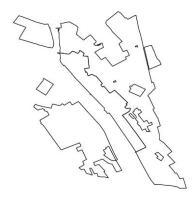
5 Analysis

- 5.1 Understanding the Site
- 5.2 Top-down morphological analysis
- 5.3 Bottom-up pattern language analysis

Analysis scale:







Water district scale

- -Mapping wetness&drought
- -Landscape biography of the traditional water management technique

Regional scale

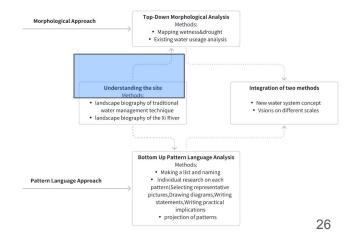
- -Landscape biography of Xi River
- -Water usage analysis
- -Pattern language appraoch

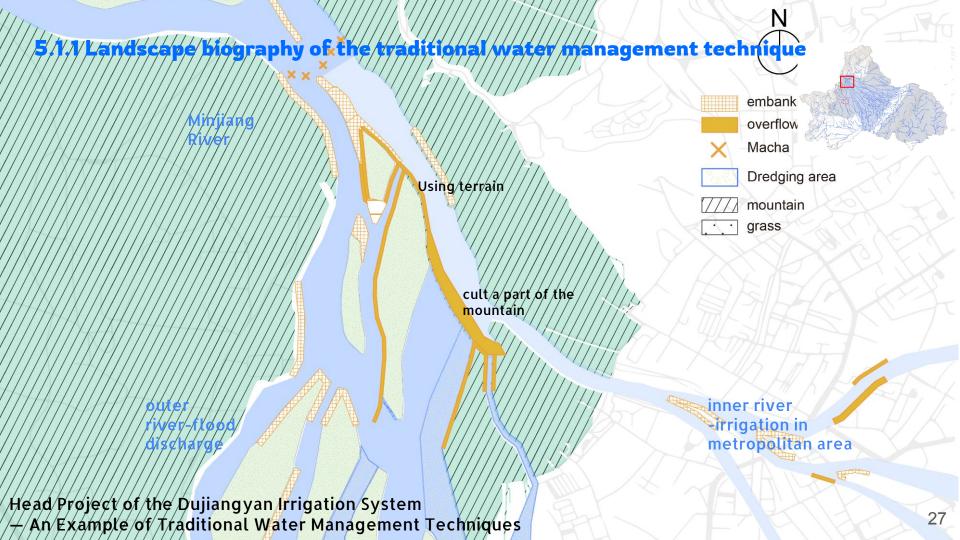
Market town scale

-Pattern language appraoch

5.1 Understanding the site

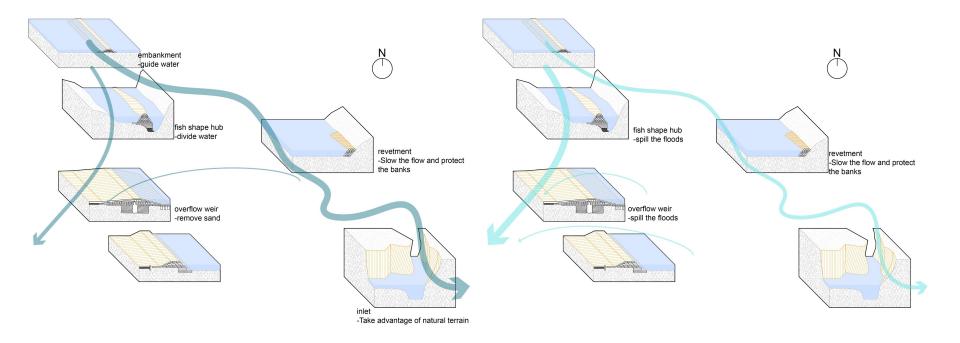
- 5.1.1 Landscape biography of the traditional water management technique
- 5.1.2 Landscape biography of the river & festival
- 5.1.3 Conclusion





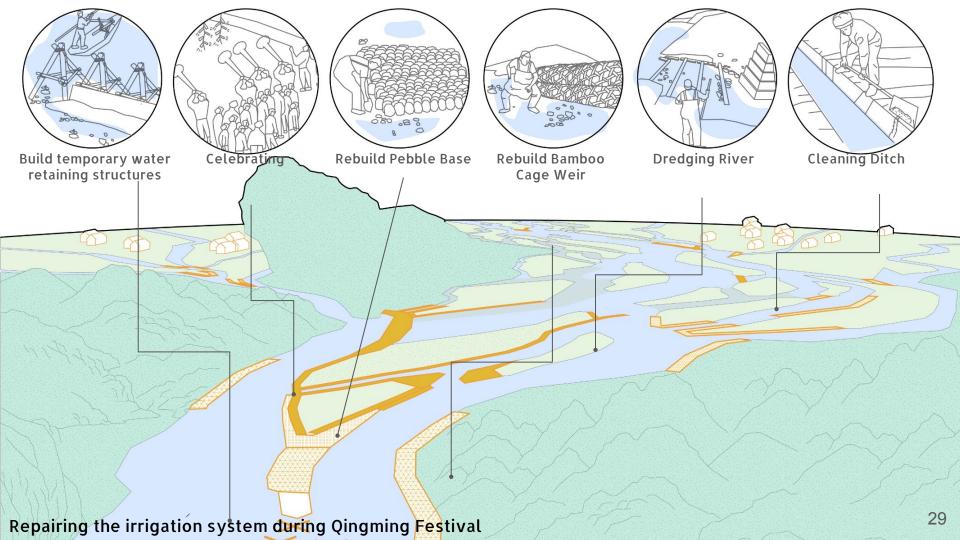
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Schematic diagram of the Head Project of the Dujiangyan Irrigation System

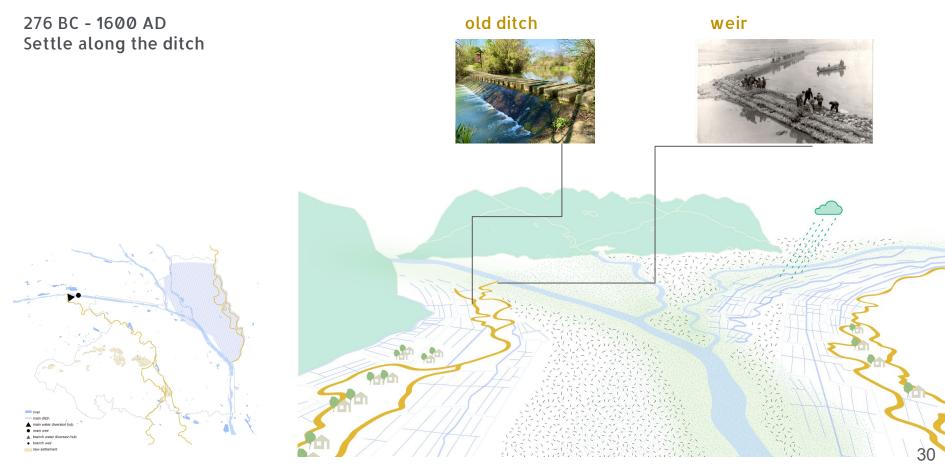


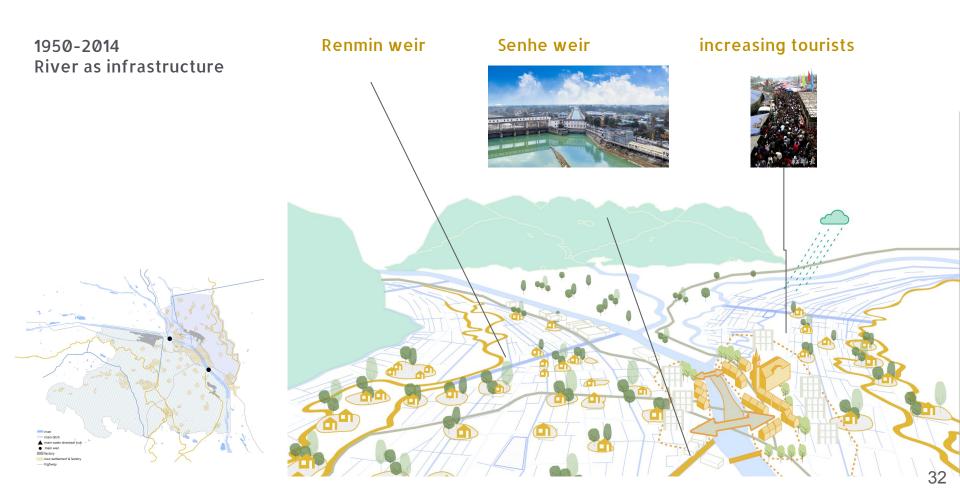
dry season

flood season



5.1.2 Landscape biography of the river & festival



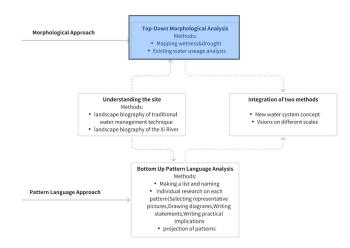


5.1.3 Conclusion

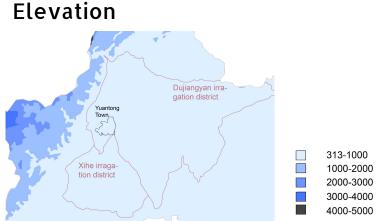
Through these historical layers, traditional water management, local markets, and modern elements like Sanhe Weir collectively embody the town's identity.

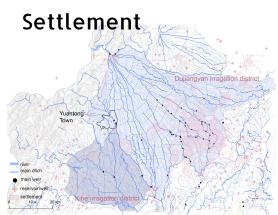
5.2 Top-Down Morphological Analysis

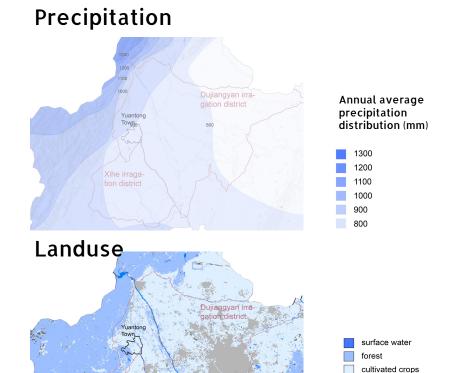
- 5.2.1Mapping wetness and droughts
- 5.2.2 Existing water usage analysis
- 5.2.3 Conclusion



5.2.1Mapping wetness and droughts

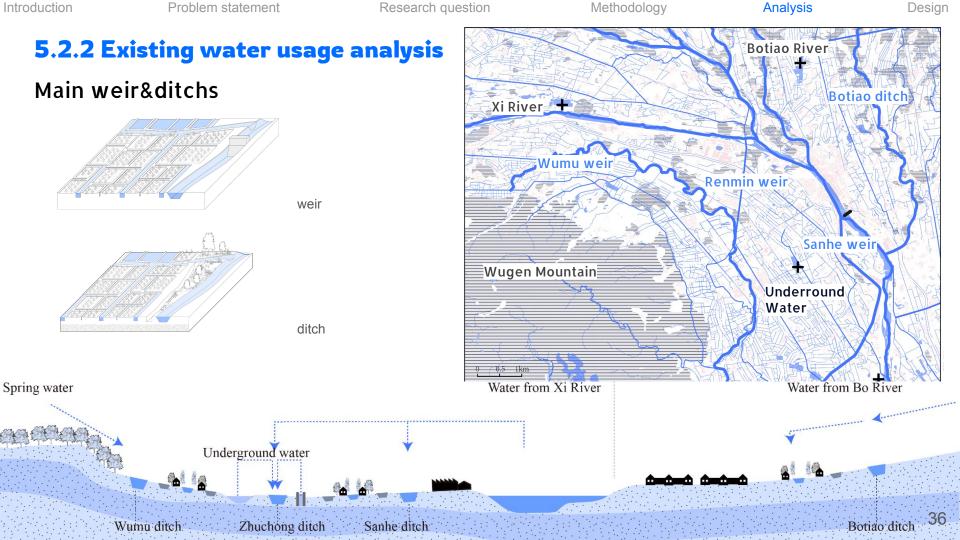






vacant ice/snow pasture

built up



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5.2.2 Existing water usage analysis

Unsustainable water usage



rice requires a large amount of water in the spring



rapeseed requires water needs to be drained in the winter



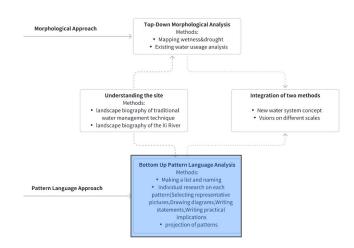
5.2.3 Conclusion

The region should focus on improving water retention ability. And we need a more sustainable watermanage to address the increasing demand for water as well as the flooding issue.

Design

5.3 Bottom-Up pattern language analysis

- 5.3.1 Research steps
- 5.3.2 Pattern types
- 5.3.3 Observed past patterns
- 5.3.4 Observed existing patterns
- 5.3.5 Conclusion



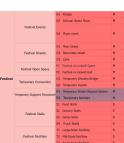
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5.3.1 Research steps

Making a list and naming



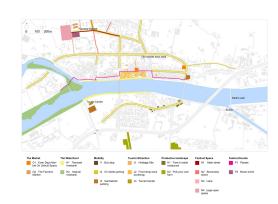
59 patterns 20 types 3 theme



In-depth research on each pattern



Pattern projection

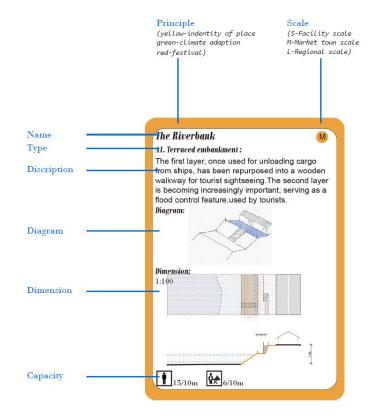


5.3.2 Pattern types:



Scale:

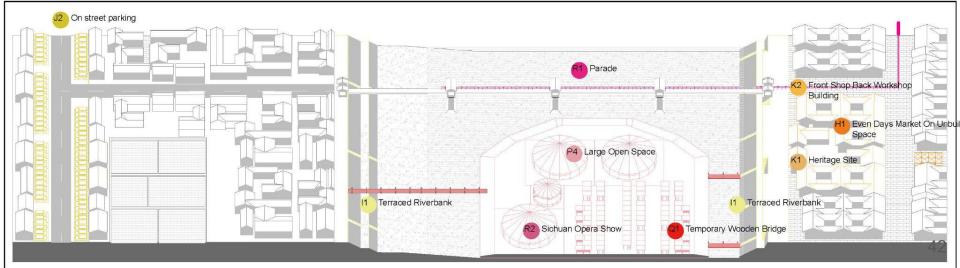
S scale: human scale M scale: town's scale L scale: resgional scale



example of a pattern

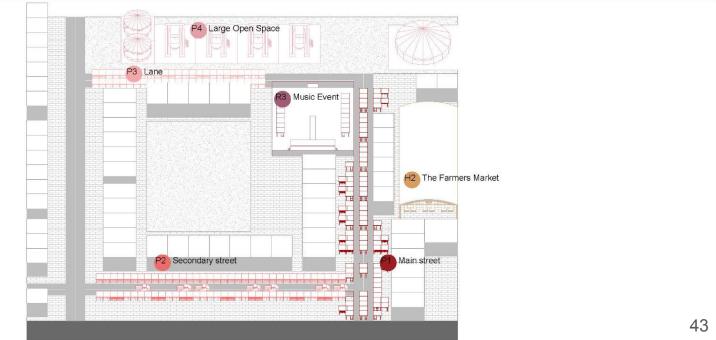
5.3.3 Observed past patterns





5.3.4 Observed existing patterns





5.3.5 Conclusion

The final design should be a highly dynamic landscape, considering different waterfront spaces usage, and human activities during different periods.

6 Design

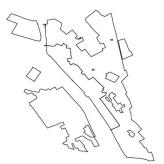
- 6.1 Market town scale
- 6.2 Human scale
- 6.3 Regional scale
- 6.4 Conclusion & discussion

Design scale:



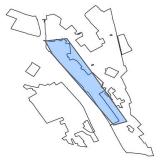
Regional scale

-restore the river's climate adaptability



Market town scale

- -new form of waterfront public spaces
- -the new water management
- -the connection between festival and river



Human scale

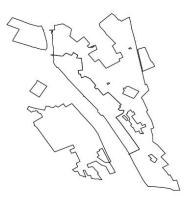
-enhance spatial experience -reveal the interaction between people and the river now and in the past

3 Periods:

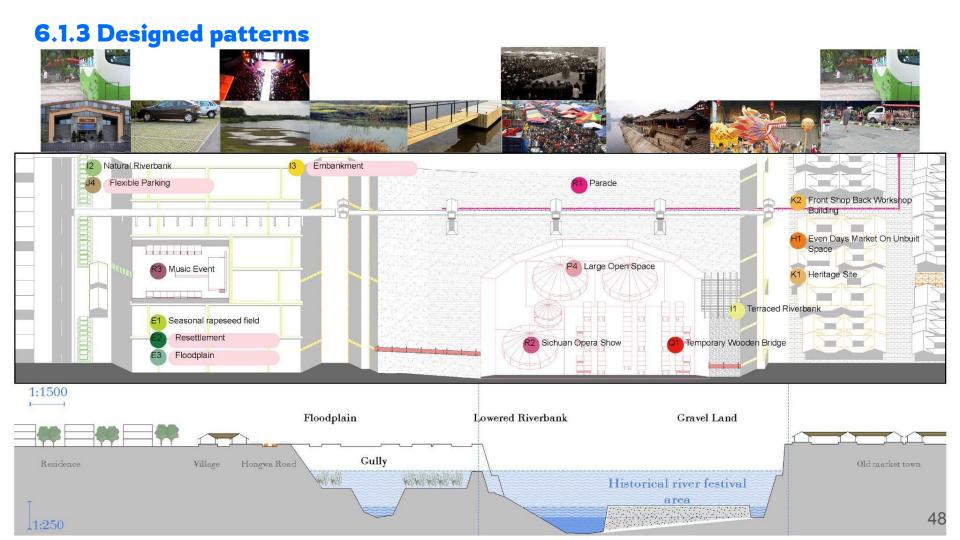


6.1 Market town scale

- 6.1.1 Observed past patterns
- 6.1.2 Observed existing patterns
- 6.1.3 Designed patterns
- 6.1.4 Masterplan at the town scale



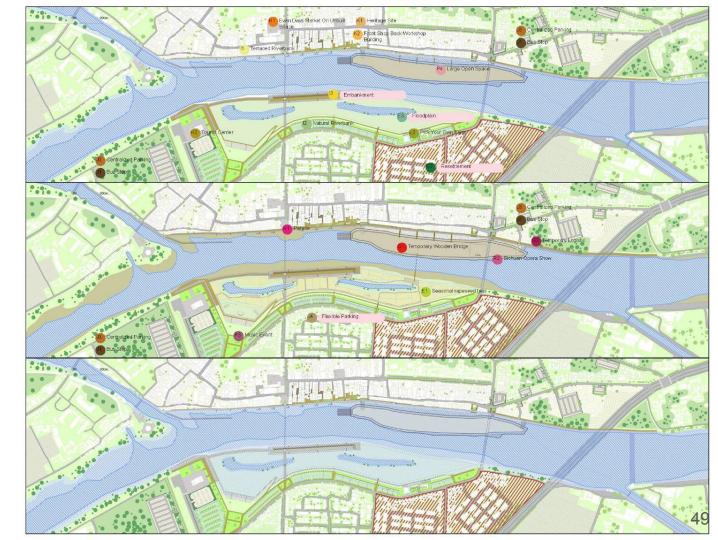
- -new form of waterfront public spaces
- -the new water management
- -the connection between festival and river



6.1.4 Masterplan at the town scale

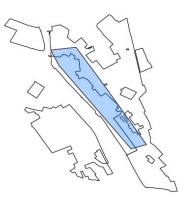
Normal Period

Festival Period



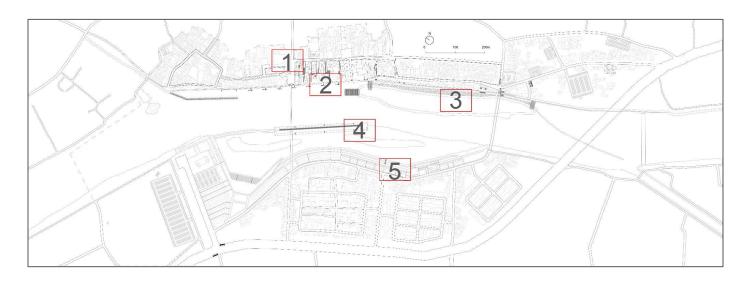
6.2 Human scale

- 6.2.1 Site selection
- 6.2.2 The old market town
- 6.2.3 The waterfront of the old market town
- 6.2.4 The gravel land
- 6.2.5 The embankment
- 6.2.6 The waterfront of the floodplain



-enhance spatial experience-reveal the interaction between people and the river

6.2.1 Site selection



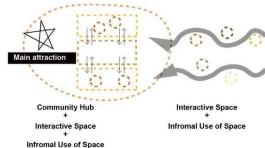
- 1. The old market town
- 2. The waterfront of the old market town
- 3. The gravel land
- 4. The embankment
- 5. The waterfront of the floodplain

3 Periods:



6.2.2 The old market town

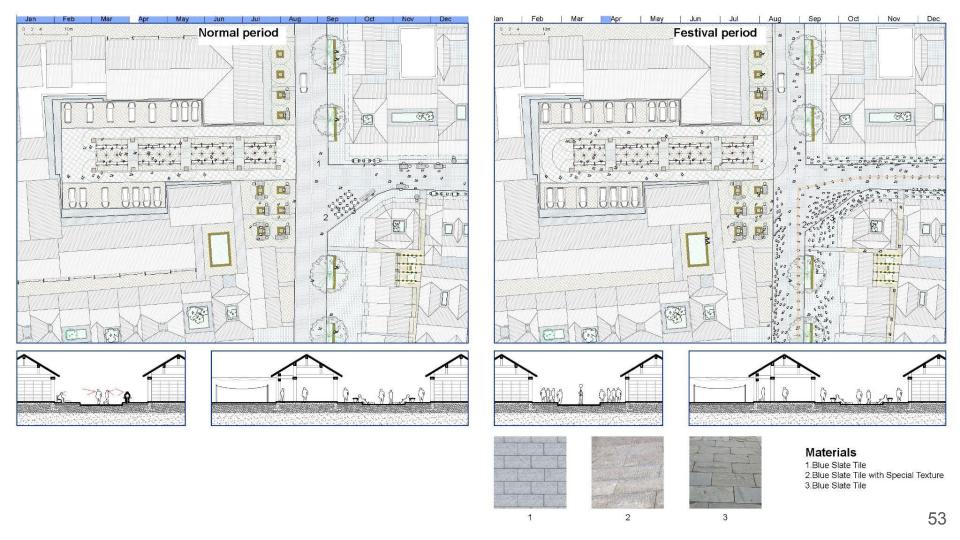






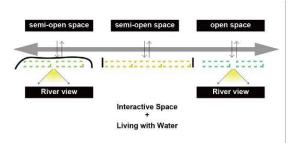






6.2.3 The waterfront of the old market town

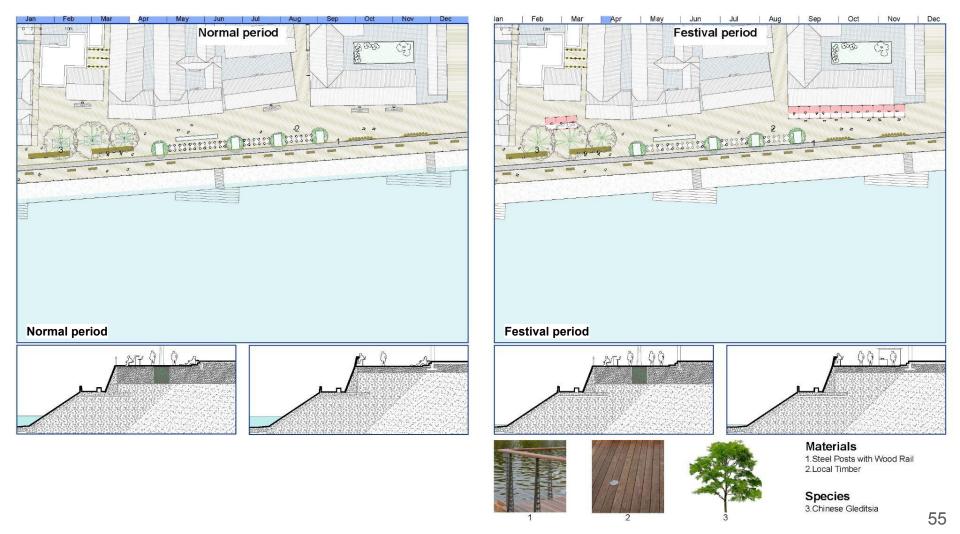






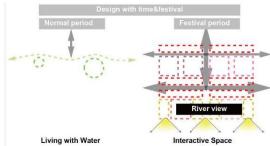






6.2.4 The gravel land



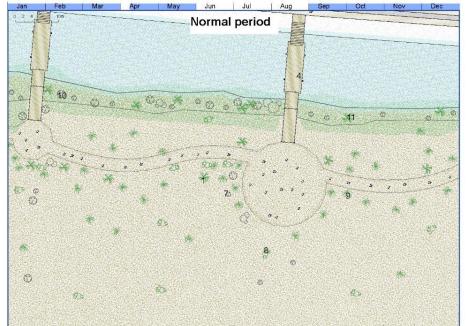


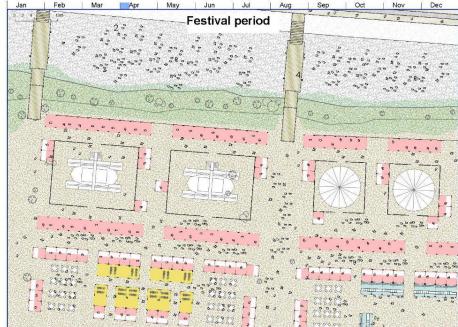
Festival Stalls & Festival Facilities

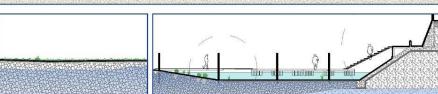


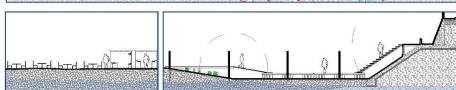


































Materials

- 1. Natural Gravle in Xi River

- Traditional Dry-Laid Cobblestone
 Steel Posts with Wood Rail
- 4.Local Timber
- 5.Concrete Block
- 6. Mortared Rubble Masonry

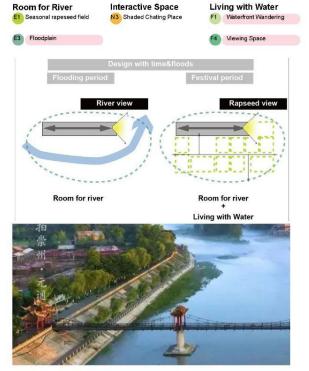
Species

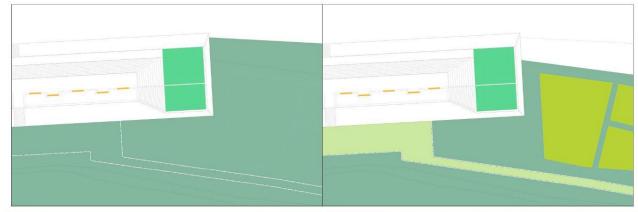
7.Willowweed

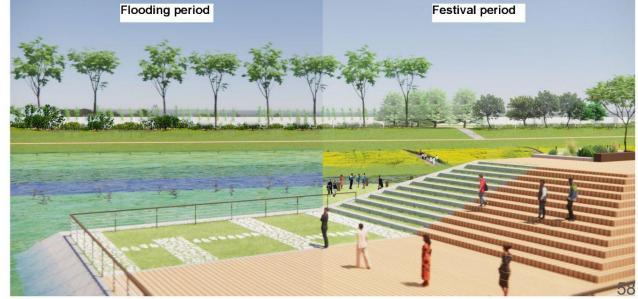
8.Eastern daisy fleabane 9.Wild rice stem

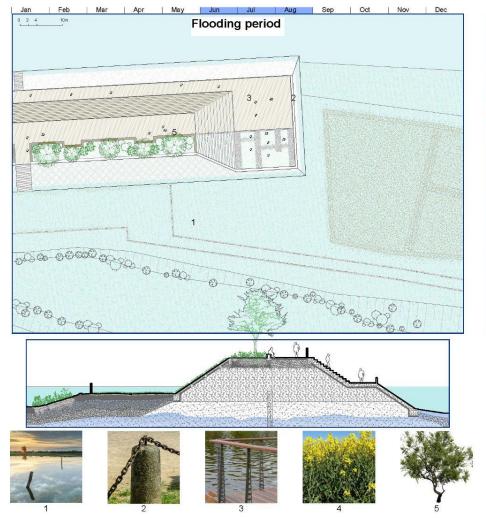
- 10. Chinese dandelion
- 11. Curly pondweed 12. Chinese Gleditsia

6.2.5 The embankment

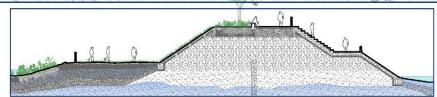












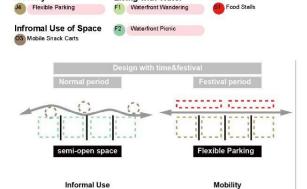
Materials

- Nooden Fence Stake
 Steel Posts with Wood Rail
- 3.Local Timber

Species

- 4.Rapseed
- 5.Chinese tallow tree

6.2.6 The waterfront of the floodplain

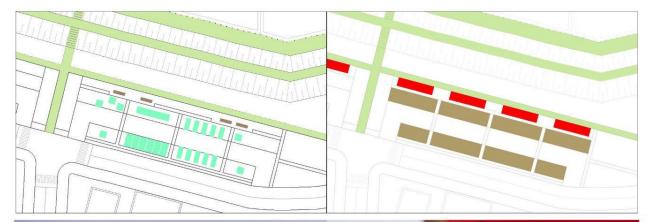


Living with Water

Festival Stall

Mobility

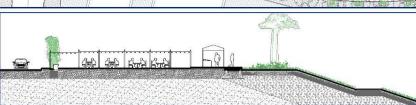


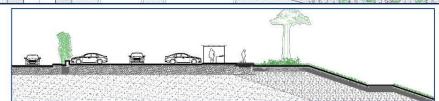


































Materials

- 1.Permeable Paving 2.Permeable Paving
 3.Reclaimed Antique Granite Curb
- Stone
- 4.Natural Stone 5.Natural Wooden Plank

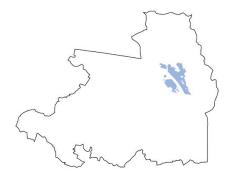
Species

6.Bamboo 7. Camphor tree 8. Dawn redwood 9. Wild chrysanthemum

10.Chinese violet cress 11.Bermudagrass 61

6.3 Regional scale

- 6.3.1 Existing condition
- 6.3.2 Regional planning under the
- "Accelerating Climate Change" scenario



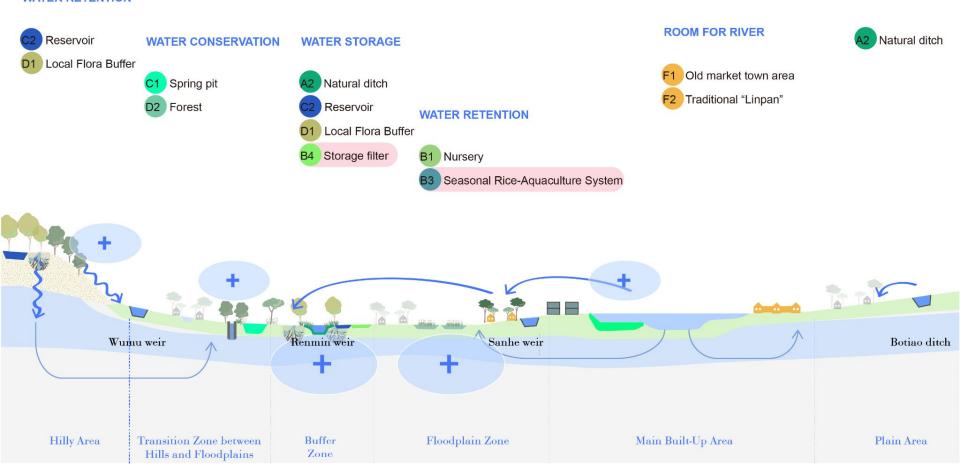
-restore the river's climate adaptability-long term planning

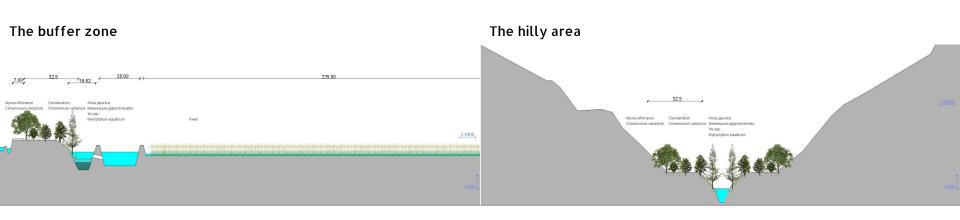
6.3.1 Observed patterns



6.3.2 Regional planning under the "Accelerating Climate Change" scenario

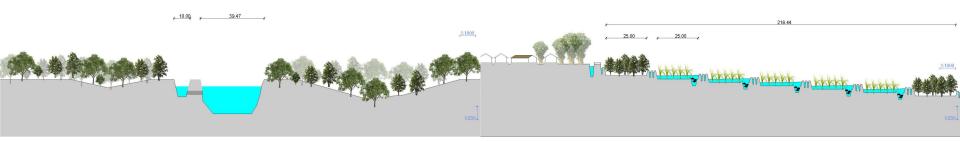
WATER RETENTION





The transition zone between hills and floodplains

The floodplain zone



6.4 Conclusion&discussion

Core Outcomes

Climate Resilience

Hybrid system: Traditional bamboo weirs + modern floodplains.

% Cultural Revival

Restored festivals.

Community & Identity

Local materials + participatory spaces.

Global Insights

Heritage-Driven Climate Action

Traditional wisdom meets modern design

🎭 Living Heritage

Climate adaptive heritage

Inclusive Design

Morphological design combined with pattern language

