



SYMBIOSIS WITH RIVER TRACE

Country / City China/Beijing
University / School Beijing Forestry University
Academic year 2019-2020
Title of the project Symbiosis with River Trace
Authors Tan Li, Zhang Menghan, Jiang Xin, Li Xin, Sun Xuerong

TECHNICAL DOSSIER

Title of the project	Symbiosis with River Trace
Authors	Tan Li, Zhang Menghan, Jiang Xin, Li Xin, Sun Xuerong
Title of the course	Landscape Architecture Design Studio
Academic year	2019-2020
Teaching Staff	Wang Xiangrong, Lin Qing, Wu Danzi
Department/Section/Program of belonging	School of Landscape Architecture
University/School	Beijing Forestry University



Written statement, short description of the project in English, no more than 250 words

The core of the concept lies in constructing a rainfall and flood storage system by using existing river trace lakes.

This system can not only improve the local capacity to deal with floods, but also promote the coordinated development of the social, economic, and ecological environments. Therefore, We propose three main design strategies, including: resilient management of rainfall and flood, resilient development of social economy, and sustainable development of ecological service.

There are three strategies including stormwater management strategy, composite industry strategy and eco-tourism strategy. So as to ensure the stability of agricultural land and increase the security of people's production and life, promote the development in agriculture, forestry and fishery in an integrated manner. Combining the historical heritage of the ancient city of Toungoo with the tourism industry, it forms a recreational sightseeing line linking the Oxbow Lake and the ancient city.



CLIMATE CHANGE AGAIN

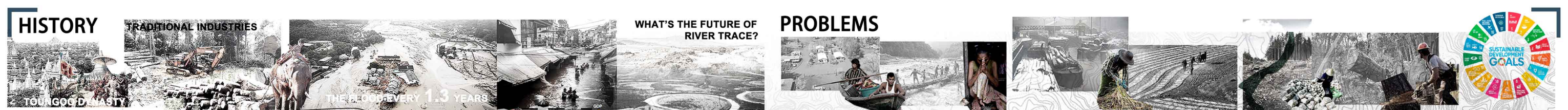
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For further information
Máster d'Arquitectura del Paisatge -DUOT - UPC

T: + 34 93 401 64 11 / +34 93 552 0842
Contact via email at: biennal.paisatge@upc.edu

Máster d'Arquitectura del Paisatge -DUOT - UPC
ETSAB- Escola Tècnica Superior
d'Arquitectura de Barcelona
Avenida Diagonal, 649 piso 5
08028 Barcelona-Spain

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SCHOOL PRIZE



HISTORY

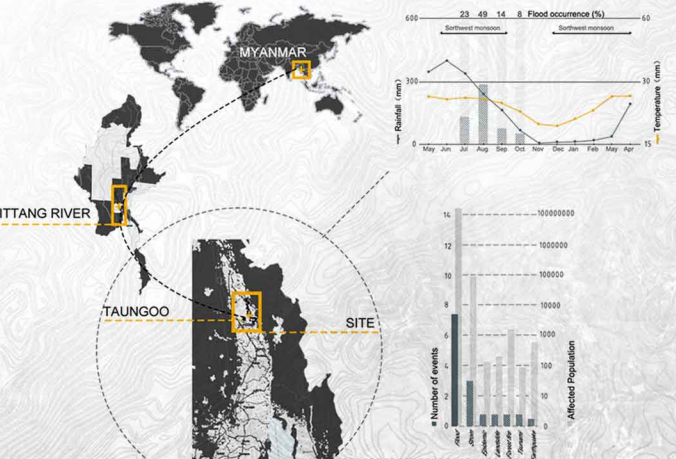
TRADITIONAL INDUSTRIES

WHAT'S THE FUTURE OF RIVER TRACE?

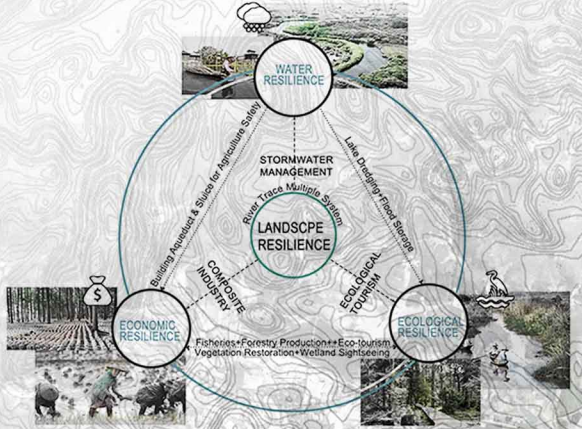
PROBLEMS



SITE ANALYSIS



CONCEPT



FLOOD PROBLEMS

The site is faced with many natural disasters, among which the floods caused by river changes and rainfall are the most frequent natural disasters affecting the local people.

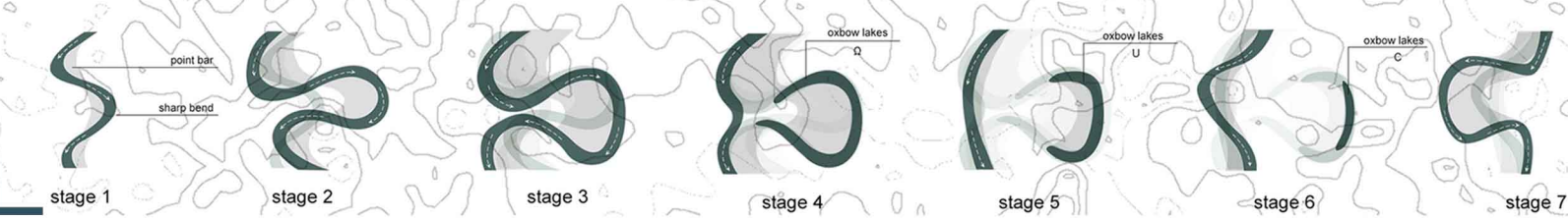
ECOLOGICAL PROBLEMS

People have cut down on the mountain and led to the reduction of local forest land; biodiversity has been drastically reduced, and advantageous resources are being lost.

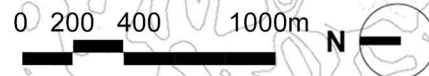
INDUSTRIAL PROBLEMS

Farmland is being developed unrestrainedly. Teakwood transportation and wood processing are important industries. The local industrial structure is characterized by low productivity, unsustainability, and lack of linkage.

GEOGRAPHICAL STUDY OF OXBOW LAKE

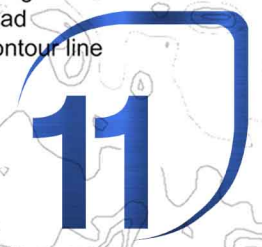


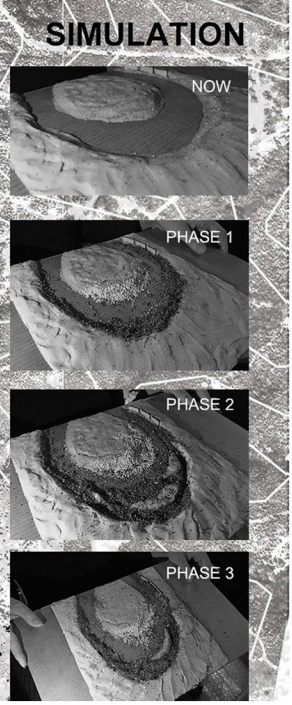
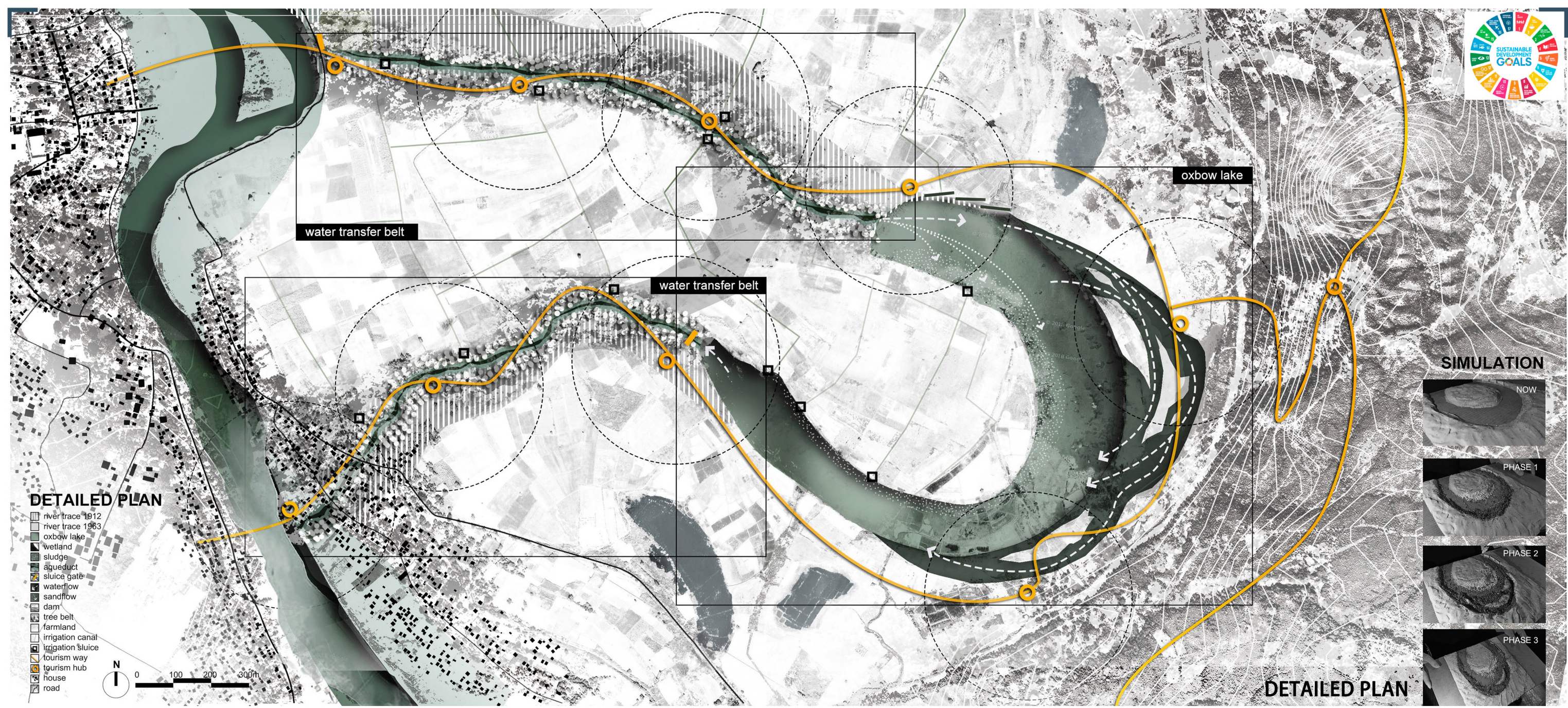
MASTER PLAN



- river trace 1912
- river trace 1963
- oxbow lake
- wetland
- fish pond
- aqueduct
- sluice
- waterflow
- scouring area
- tree belt
- farmland
- countryside way
- tourism way
- tourism hub
- village
- road
- contour line

The site is located in the basin near the ancient city of Toungoo, Sittang River, Myanmar. Frequently changing rivers not only form numerous Oxbow Lakes on both sides, but also cause serious flooding problems in this area.

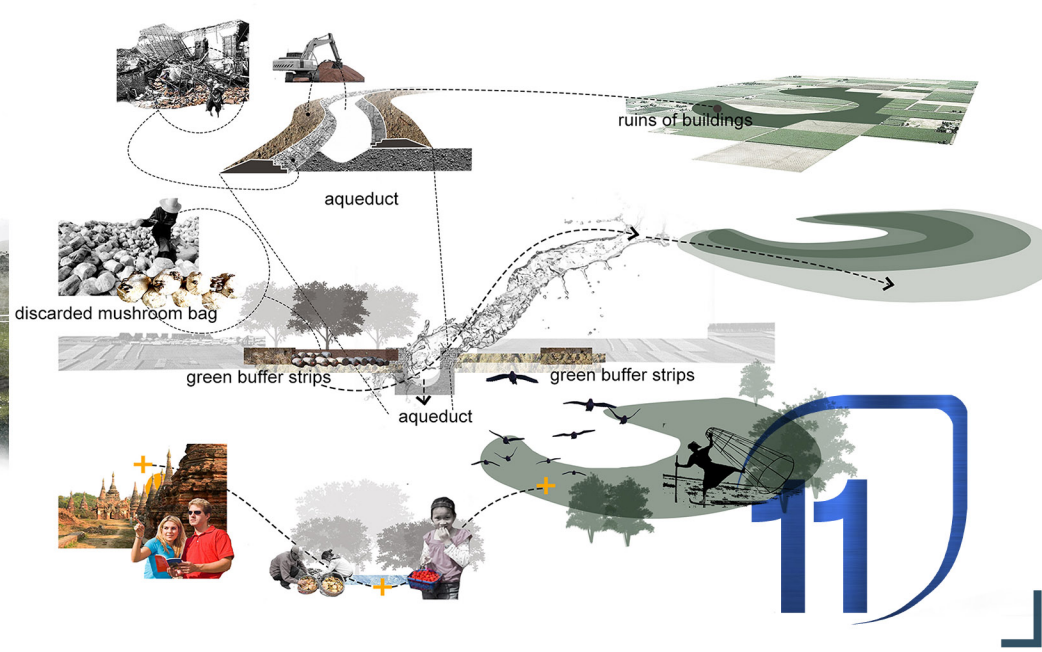




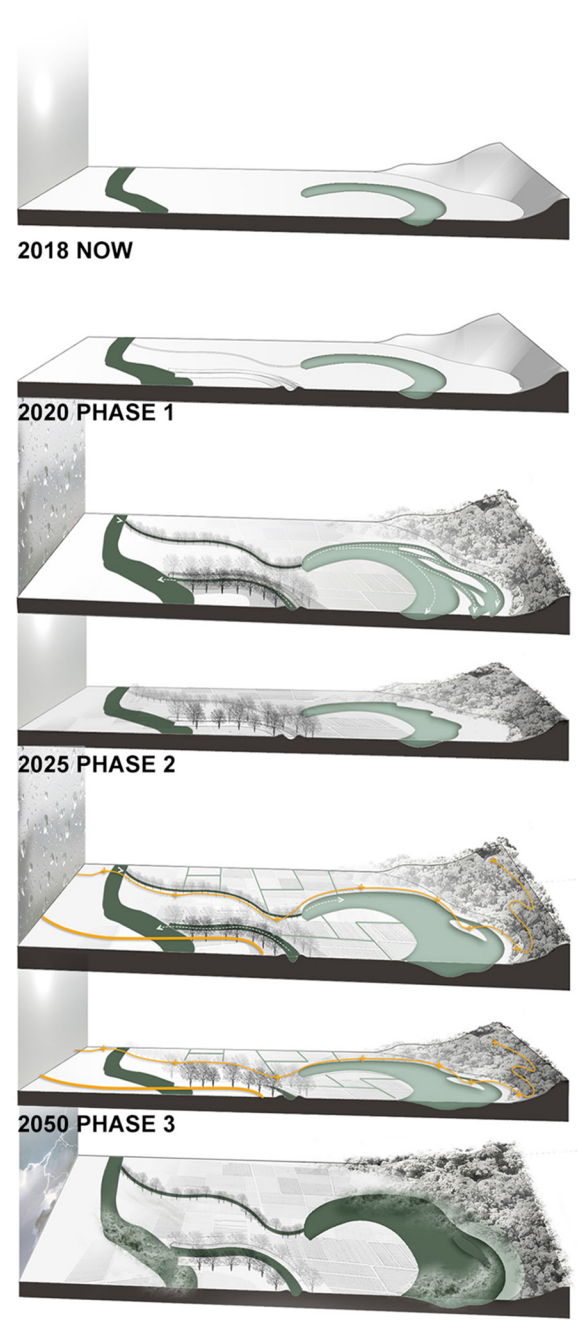
STRUCTURE



DIVERSE FUTURE



INDUSTRIAL EVOLUTION



ASSUMING 2080 ONE-HUNDRED-YEAR FLOOD

