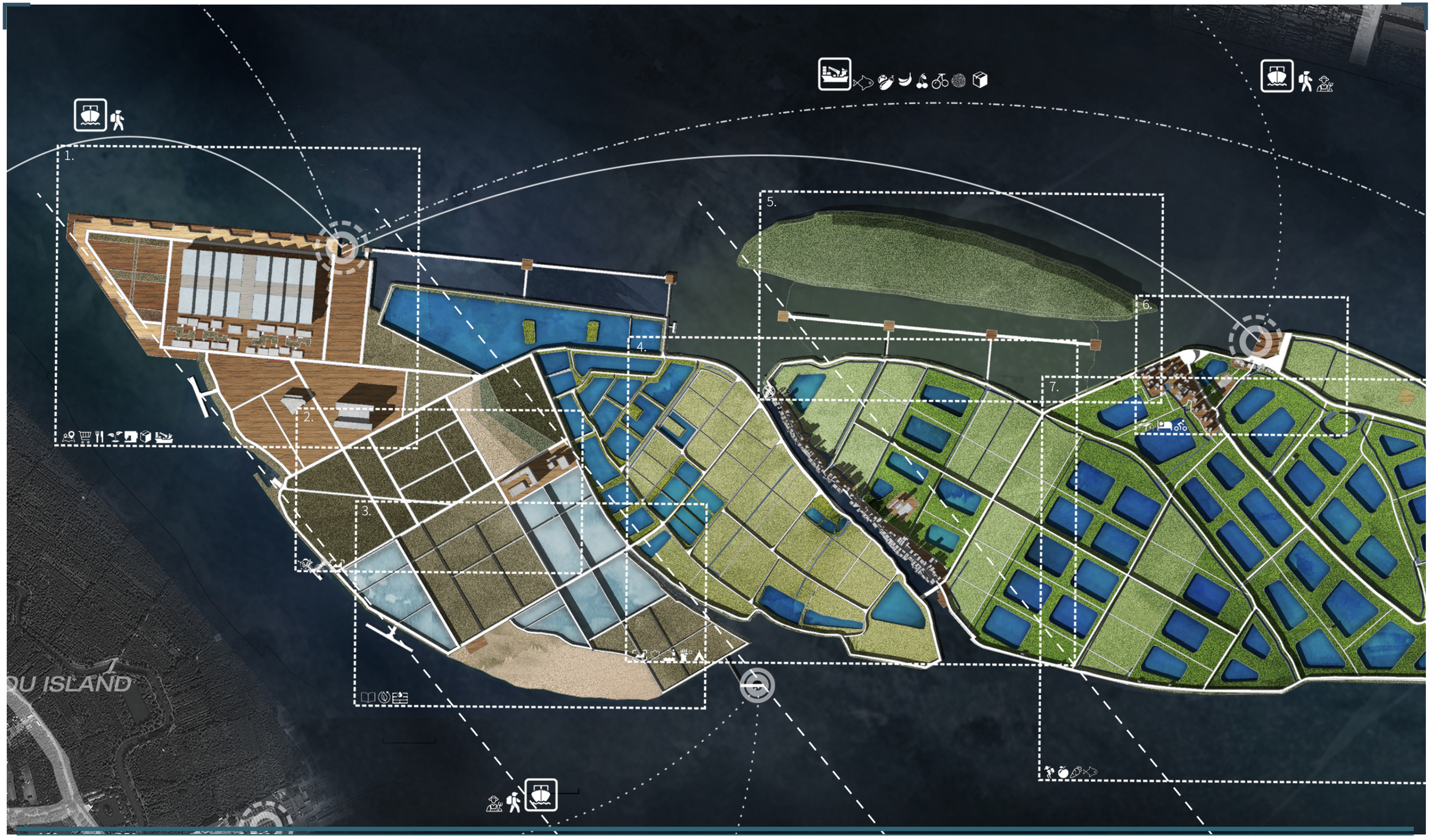

Country / City China / Guanghzou

University / School South China University of Technology / School of Architecture

Academic year 2016-2017

Title of the project An Abandoned Arcadia – Regeneration of New Vernacular Landscape in Urban Fringe of Guangzhou by Stereoscopic Agriculture

Authors Xinhui Chen, Xitong He, Zhaowei Shi, Xianyao Xia, Langran Xu

PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 Barcelona

SCHOOL PRIZE

X International Landscape Architecture Biennial

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

TECHNICAL DOSSIER

Title of the project: An Abandoned Arcadia
Authors: Xinhui Chen, Xitong He, Zhaowei Shi, Xianyao Xia, Langran Xu
Title of the course: Landscape Planning and Design III, CHSLA Student Design Competition 2016
Academic year: 2016-2017
Teaching Staff: Guangsi Lin
Department/Section/Program of belonging: Department of Landscape Architecture
University/School: South China University of Techitecture / School of Architecture

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

The Pearl River Delta region as a whole is highly urbanized and industrialized. But in the urban fringe, due to the failure of industrial and agricultural development, many villages are relatively poor and backward. There are a large number of abandoned or idle land, while traditional rural features are increasingly disappearing.

Stereoscopic Agriculture, based on the co-relationship between different organism, is a vernacular method of agricultural management, which combines several groups of biological population in order to establishing a multi-species, multi-layer and multi-level eco-system. Dike-Pond agricultural system in the Pearl River Delta is a representative of stereoscopic Agriculture.

The site is a number of adjacent sandbanks in the middle of the Pearl River flowing through central area of Guangzhou. The design first carry out ecological restoration of the site and the basic landscape construction through management of brown earth, conservative development of industrial heritage, and construction of water system and open space system. Then, after classifying site land types, we apply the stereoscopic agriculture model to different area according to local conditions. By recovering and developing this agricultural model in the metropolitan area, the area will be guided to breakthrough disordered industrialization and modern intensive agriculture, and play their potentials and advantages in ecological, landscape, economic benefits.

In a word, the design aims to explore a way to combine contemporary technique with ancient innovation and local context, with applying the feasible method – stereoscopic agriculture to activate the dynamic value of city village in ecological, social and economic ways.

For further information
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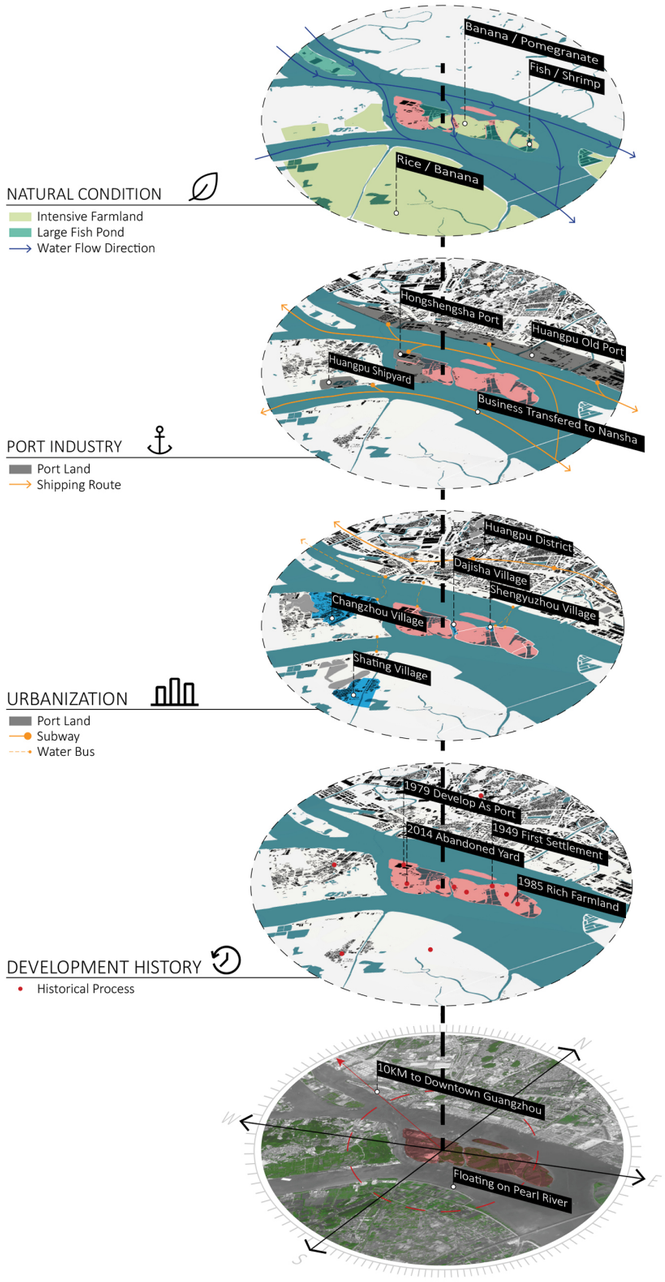
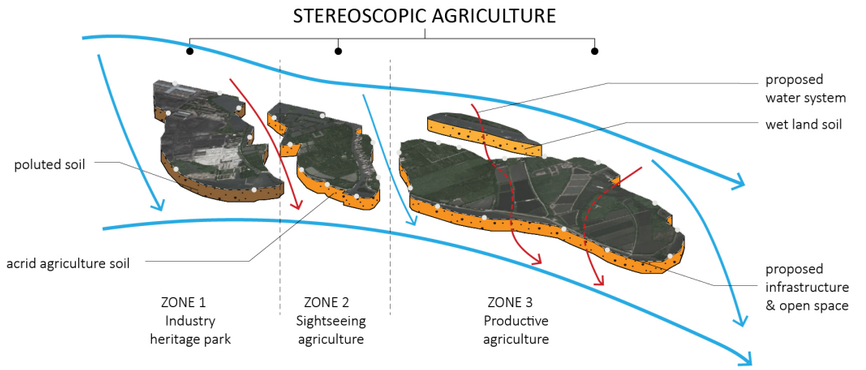
AN ABANDONED ARCADIA

CHSLA Design Competition Honor Award - Landscape Design and Regional Planning
Instructor : Guangsi Lin
Team members : Xinhui Chen, Xitong He, Zhaowei Shi, Xianyao Xia, Langran Xu
Location : Huangpu District, Guangzhou, China
Time : Jul.20,2016- Aug.31,2016

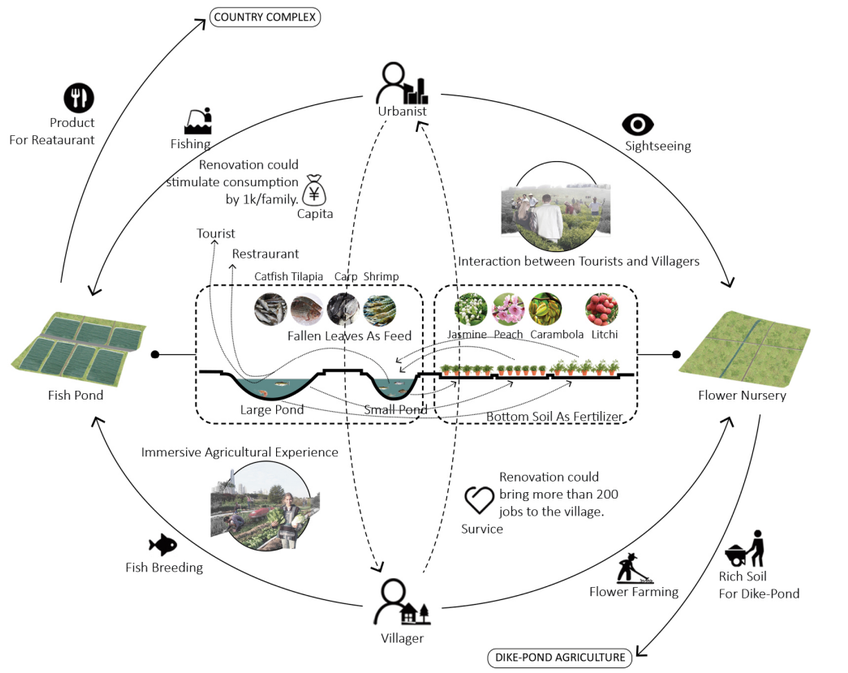
The site is a number of adjacent sandbanks in the middle of the Pearl River flowing through the central area of Guangzhou. The design first carry out ecological restoration of the site and the basic landscape construction through management of brown earth, conservative development of industrial heritage, and construction of water system and public open space system. Then, after classifying site land types, we apply the stereoscopic agriculture model to different area according to local conditions. By the recover and develop this agricultural model in the metropolitan area, the area will be guided to breakthrough disordered industrialization and modern intensive agriculture, and play their potentials and advantages in ecological, landscape, economic benefits.



[Separate Layers of Hongsheng Island]

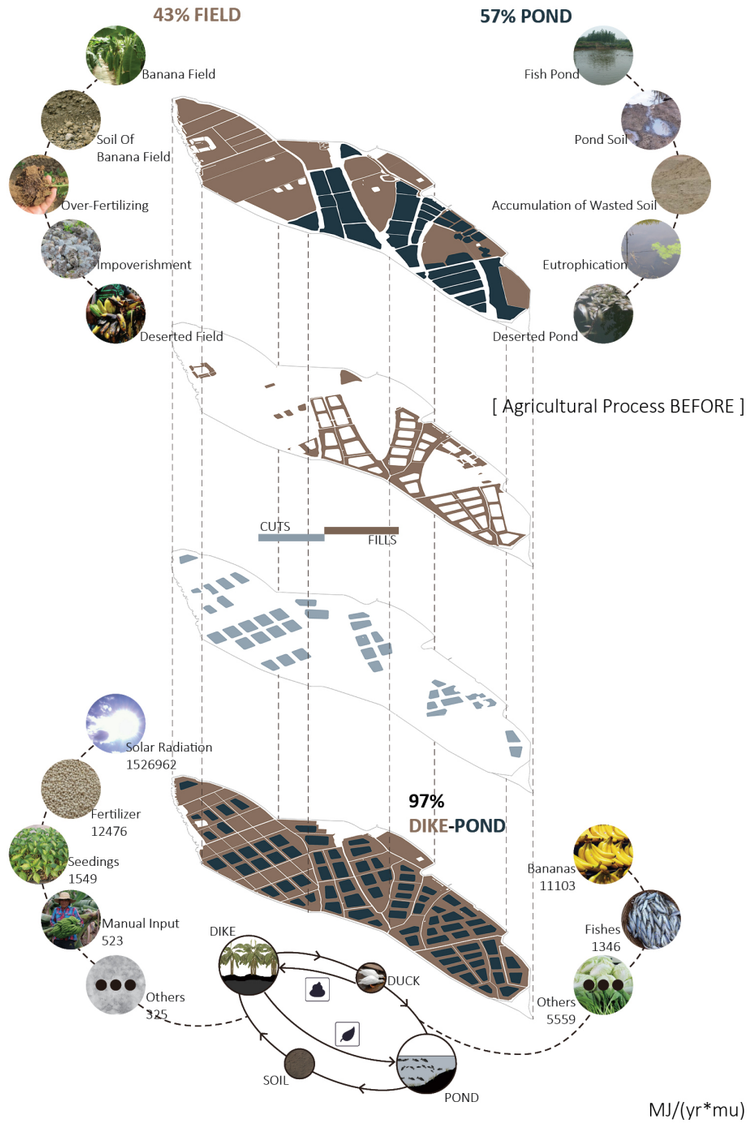


[Redevelopment Strategies]



["Win-Win" Regional Operation Mode]

The design turns the original to-be-abandoned farmland into "flower field- fish ponds" agricultural tourist area creating both ornamental value, ecological value and economic benefits. The crop produced in the dike-pond agriculture area and the fishes produced in the sightseeing agriculture area could supply the market and farmer restaurant in the port area to form a COMPLETE INDUSTRIAL CHAIN to bring as much as possible benefits to villagers and tourists.



[Agricultural Process BEFORE]

[Agricultural Process AFTER]

Dike-pond agriculture is a traditional agricultural model in the pearl river delta. "Dike-pond" refers to turning depression into the fish pond, piling the dug up soil around pond as dike, and then plant crops o... fish fecal waste can fertilize pond soil, which will be piled up on dike again. It is a sustainable recycling agriculture model. The design improves the traditional dike-pond eco-system and apply it to the venue to repair the degradation of fish ponds and banana field, which resulted from over-intensive farming.

STEREOSCOPIC DEVELOPMENT

Overall Regeneration Solution of the Abandoned Island

HUANGPU DISTRICT

PEARL RIVER

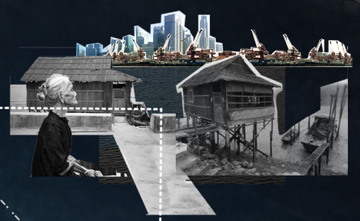
CHANGZHOU ISLAND

PANYU DISTRICT

[Current Status of the Island]

PORT DISCARDED FOR DEVELOPMENT

EARTH DEVASTATED FOR OVER-USE



VILLAGE ABANDONED FOR WEALTH

N

0 100 250 500m

LEGEND

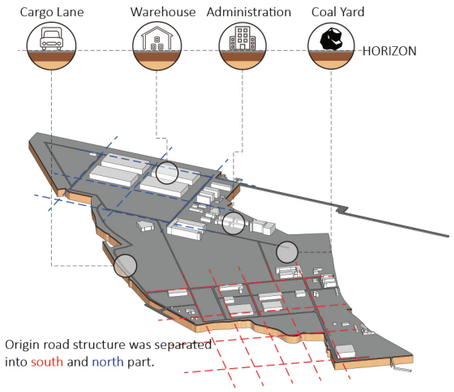
Sedimentation	Small Terminal	1. Farmers Market
Purification	Main Terminal	2. Agricultural Showcase
Parterre	New Terminal	3. Constructed Wetland
Building	Origin Terminal	4. Anti-Erosion Wetland
Open Space	District	5. Sightseeing Agriculture
Plaza	Villager Route	6. Fishing Village Sightseeing
Field	Tourist Route	7. Dike-Pond Agriculture
Dike	Freight Route	
Pond	Road	

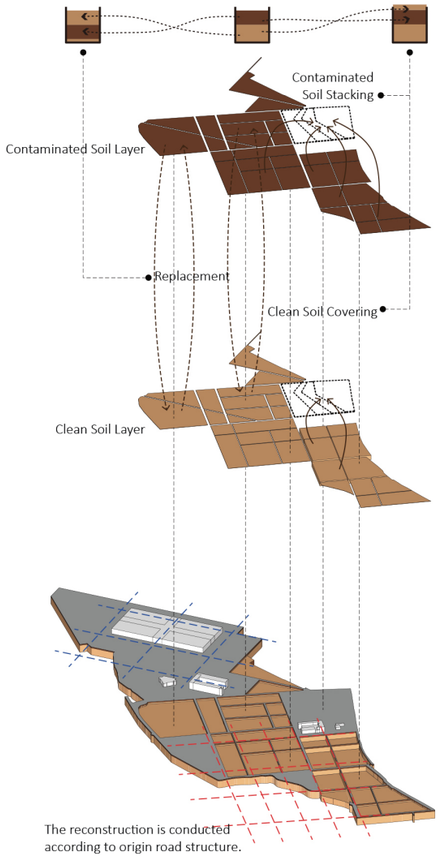
INDUSTRIAL RAMAINS PARK	SIGHTSEEING AGRICULTURE	DIKE-POND AGRICULTURE
Robinia pseudoacacia	Jasminum sambac	Musa nana
Nerium indicum	Bauhinia variegata	Phaseolus vulgaris
Ceiba speciosa	Litchi chinensis	Zingiber officinale
Murraya exotica	Fragaria ananassa	Pueraria lobata
Gardenia jasminoides	Cirrhinus molitorella	Ctenopharyngodon idellus
AUTUMN/WINTER	SPRING	SUMMER

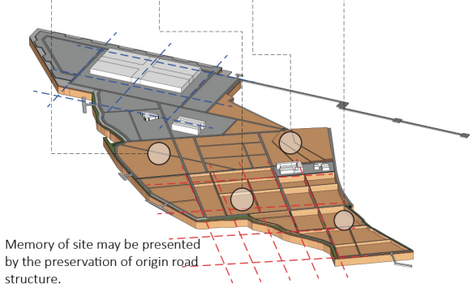
SEASONALLY SPATIAL USE CHART — Cultivation Time — Open Time

INFRASTRUCTURE

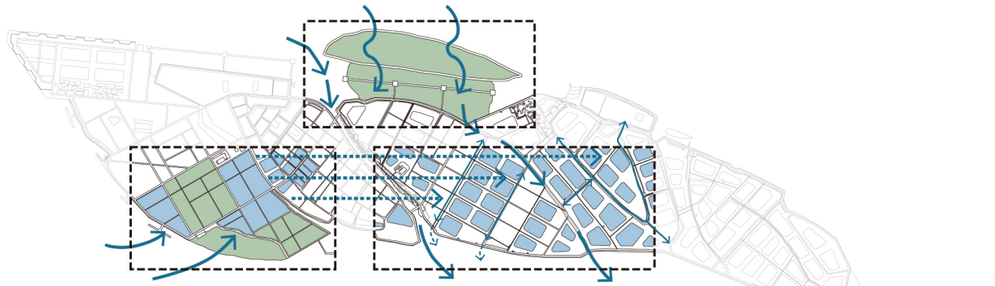
Restructure of Eco-Socio-System in Hongsheng Islands



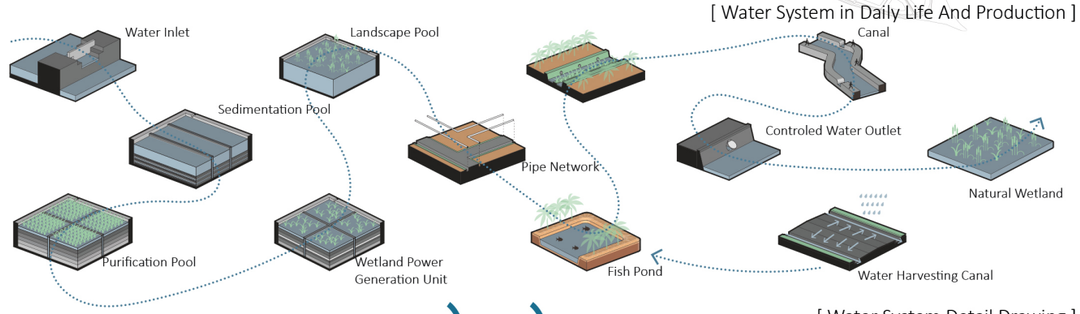




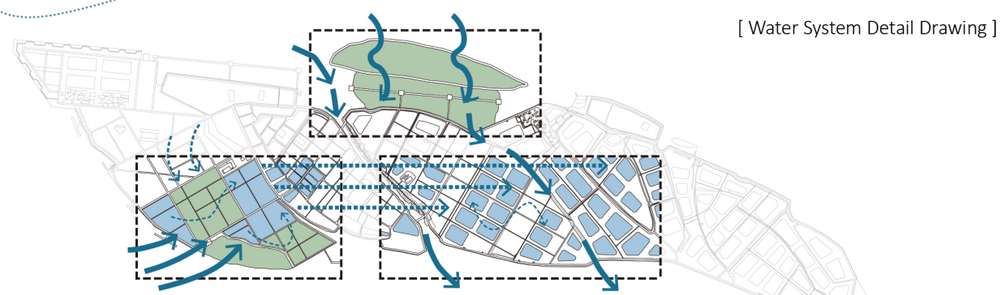
[Brown-Earth Solution]



[Water System in Daily Life And Production]



[Water System Detail Drawing]



[Water System in Flood And Rainstorm]