

Country /City China / Chongqing
University / School Chongqing University / College of Art
Academic year 2022 / 2023

Title of the project Symbiosis with nature

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## TECHNICAL DOSSIER

Title of the project Symbiosis with nature

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Title of the course Landscape architecture

Academic year 2022 / 2023 Junqiao SUN **Teaching Staff** 

Department / Section / Program of belonging Department of Environmental Design / College of Art

University / School Chongqing University





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

The Sundarbans, a world Natural Heritage site in the Ganges Delta, is home to one of the largest mangrove ecosystems in the world. The project focuses on the ecologically sensitive boundaries of the Sundarbans mangrove forest, where hundreds of thousands of people depend on mangroves for their well-being. Since the 19th century, due to irrational land development and use in surrounding communities, community productivity has been lost, and people have become increasingly dependent on illegally collected resources and sources of livelihood from mangroves, exacerbating forest degradation, biodiversity loss, and human-tiger conflict. The project analyzes the causes of livelihood choices and vulnerability of the surrounding communities, and promotes more adaptive and nature-based sustainable livelihood models to ensure livelihood security and mitigate risks by helping the residents to change their land use patterns and forest-dependent livelihoods.

These strategies, inspired by local traditional wisdom, use biodegradable infrastructure and water to live. All measures are local, low-cost, low-tech and sustainable, affordable for local residents. It enable maintain the balance between human beings and resources.

For further information

Landscape designers in China

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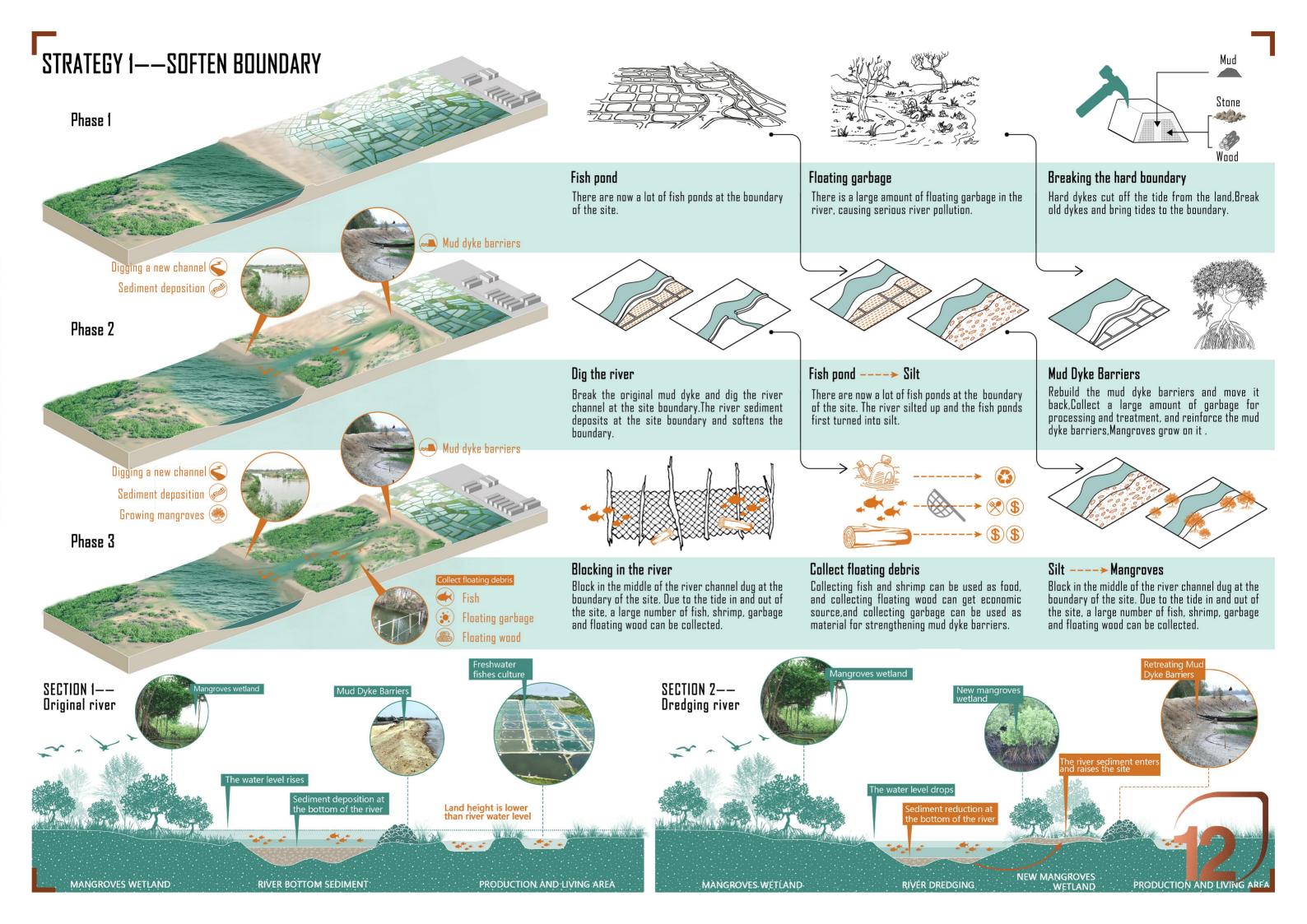
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**SCHOOL PRIZE** 





## STRATEGY 2——INCREASE PRODUTIVITY A.CROP ROTATION AND FLOATING AGRICULTURE B.ECONOMIC FOREST BELT AND BEE FARMING I Manufacturing materials II Making floating bed III Floating agricultural production Rainy season Forest belts alternate Floating agriculture with farmland Growing crops Economic forests and Abelmoschus esculentus agricultural wheels provid the community with wood and a place for beekeeping. charantia hyacinths before the rainy season and soak them in Spinach Bamboo pole fixed floating bed water to make them rot. Aubergine SEEDLINGS PRODUCTION Seedlings It is combined with the cage for raising fish to form a set Materials placed in water Ginger The seedlings are wrapped in mud balls **6** Agricultural Dry season Length of floating bed 6m—55m entering the hive on r. or in special circumsta **業業業** Seedlings are placed on the floating bed Rainy seaso Due to the obvious dry and rainy seasons, the site suffers from severe water shortage during the dry season. During the rainy season, the lowlands are 00 People recycle community garbage and floating garbage, and then mix it with slit to make the bottom of floating bed. The sludge used to store water, and during the dry season, water is used to irrigate crops. **Economic forest** Dry season contains a lot of nutrients. Growing rice 00 **⊕ ⊕** After the harvest, the floating beds are broken to provide fertilizer for dry season planting. Break the floating bed 00 Bee farming under the forest Hive structure C.MANGROVE RETREAT MANAGEMENT FLOATING AGRICULTURAL DEVELOPMENT OF TOURISM Phase 3