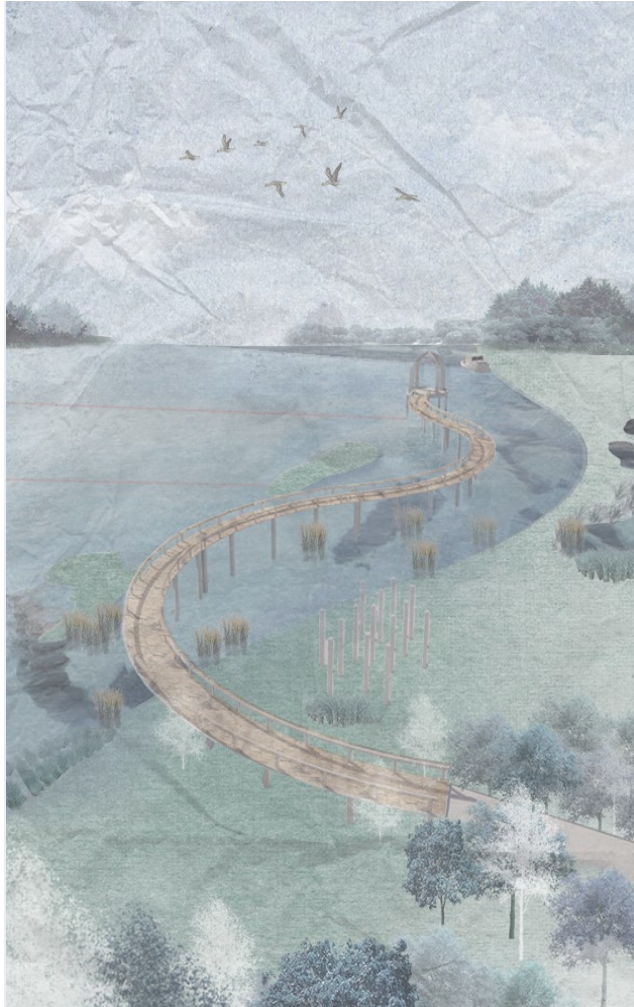


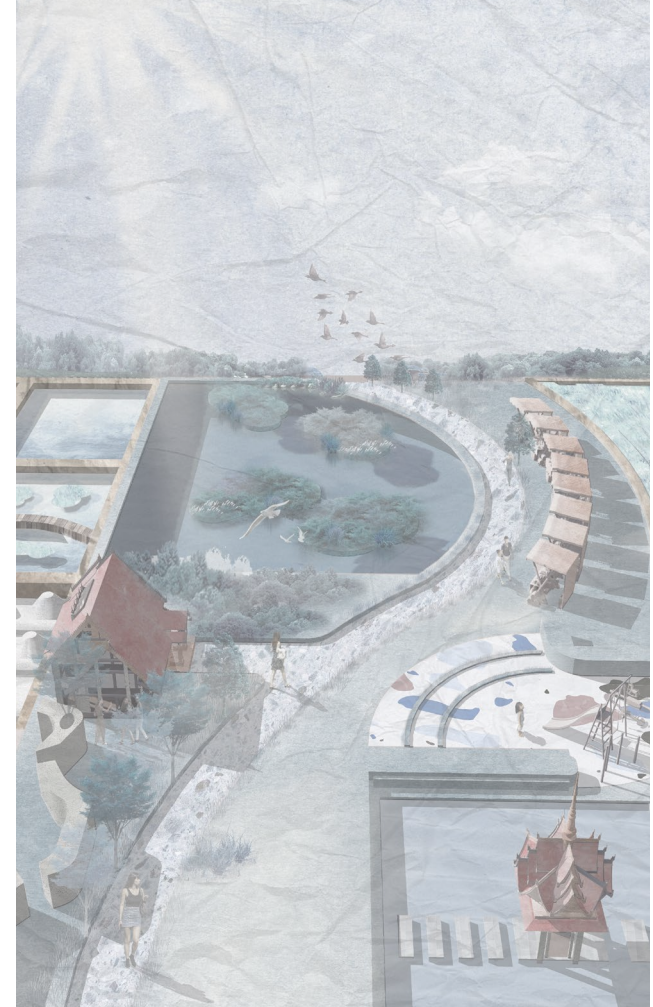
Shore



Salt-Pan



Residence



Country /City China/Chengdu

University / School Sichuan Agricultural University

Academic year 2021-2022

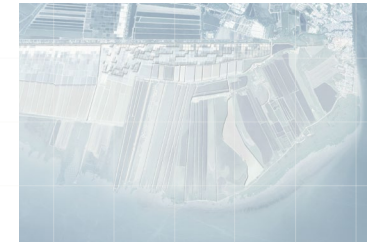
Title of the project Reappearance of the salt pan in SamutSakhon

Authors Mu Li

TECHNICAL DOSSIER

Title of the project	Reappearance of the salt pan in SamutSakhon
Authors	Mu Li
Title of the course	Tutorial of International Landscape Design Competition
Academic year	2021-2022
Teaching Staff	Bingyang Lv
Department / Section / Program of belonging	College of Landscape Architecture, Landscape Architecture
University / School	Sichuan Agricultural University

Thailand



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

SamutSakhon, adjacent to Bangkok's living circle, is a coastal city with salt production as its main industry, ranking 3rd in Thailand's annual salt production. With the rapid development of the capital SamutSakhon has also exposed problems: the decline of traditional salt production processes, the stagnation of the local economy, and the fragility and serious pollution of the coastal environment caused by industrialization. The project aims to plan a variety of efficient land use methods for the site, repair pollution and fragile coastlines, and achieve economic, cultural and ecological balance and recovery for the area.

For further information

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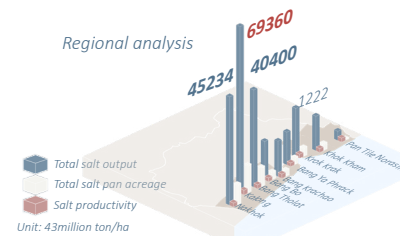
Máster d'Arquitectura del Paisatge - UPC

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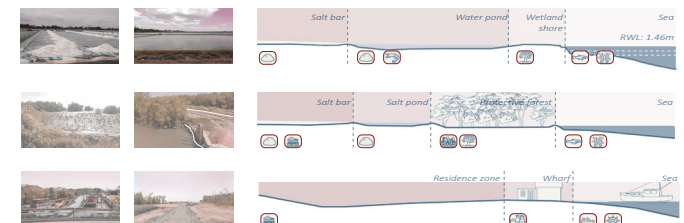


12th International Biennial Landscape Barcelona

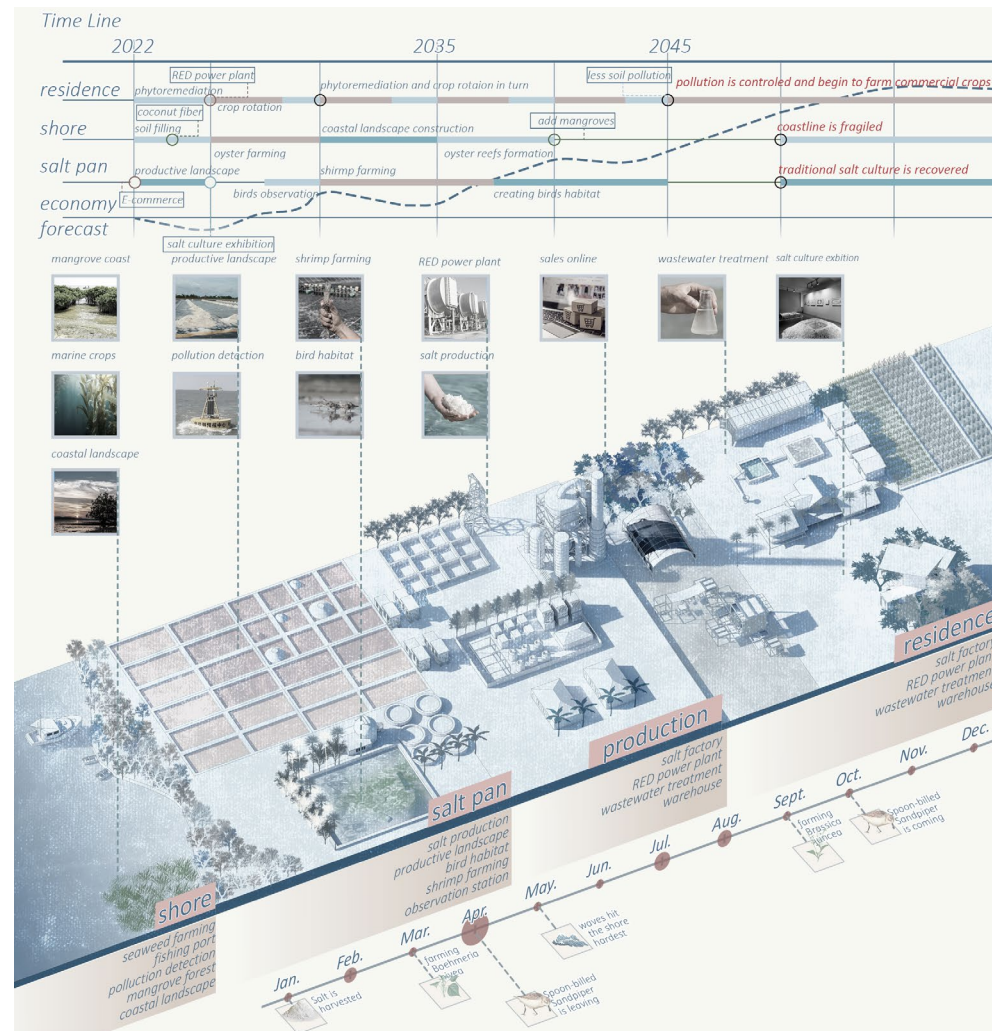
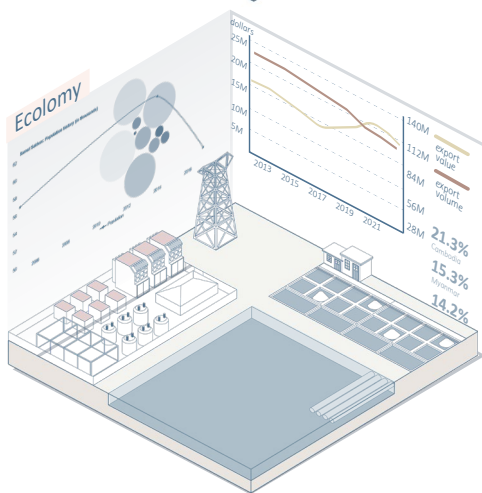
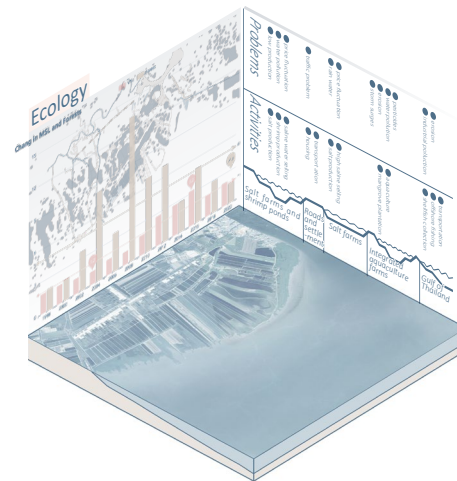
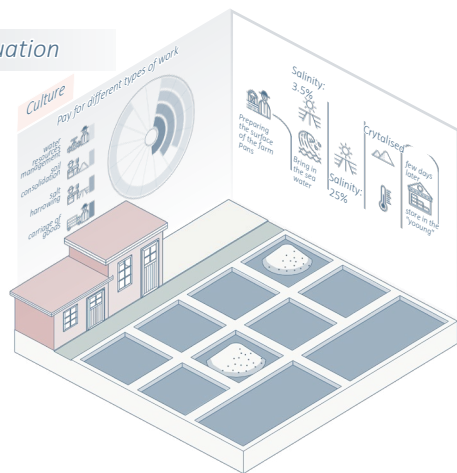
Barcelona

October 2023

SCHOOL PRIZE



Current situation

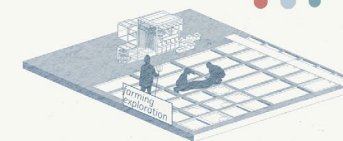


Redistribute the landuse

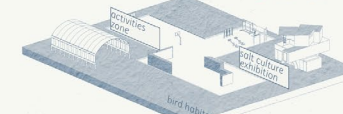


productive landscape and experience
recidents activity space
salt pan comprehensive
coastal landscape

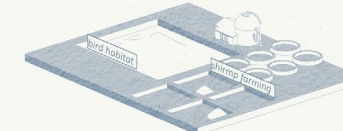
productive landscape and experience



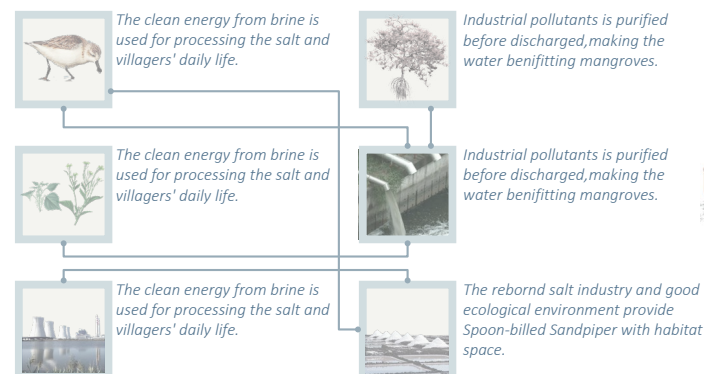
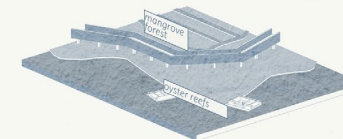
recidents activity space



salt pan comprehensive

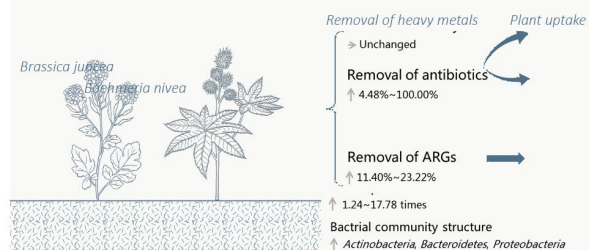


Coastal landscape



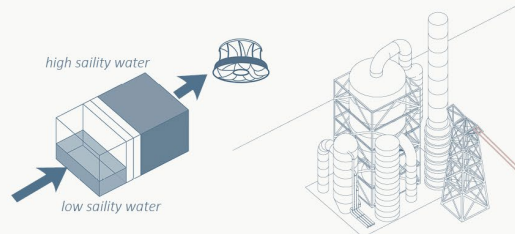
Stage1: Pollution control and energy structure transformate

Phytoremediation



By planting A and B on agricultural land in residential areas, soil pollutants can be cleaned while harvesting crops. A is suitable for autumn and winter, and B is suitable for spring and summer, with a cycle of three months.

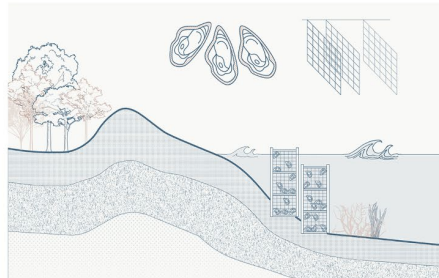
RED power plant



Introduce the RED power generation technology to the site and use the concentration difference of brine to generate electricity, so that the wasted water from brine can be used efficiently.

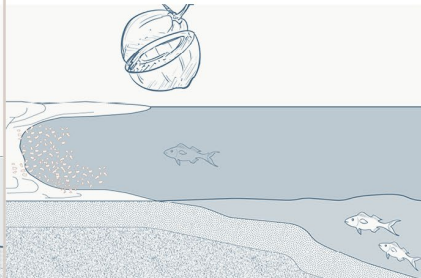
Stage2: Soil remediation and salt industry reviving

Oyster reefs nursery



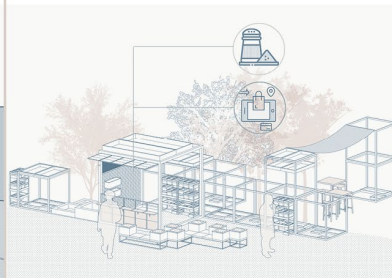
Oysters are planted on vulnerable shorelines, where oyster shells form reefs that strengthen shorelines and protect them from the wave erosion.

Shore filling with coconut



Filling the coastal soil with coconut fiber to help mangroves develop and form forests.

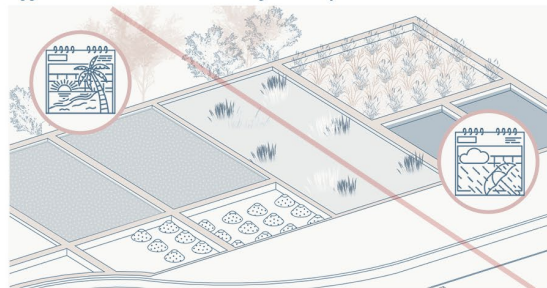
Multiple ways of selling



The combination of sales near salt pans and e-commerce can break the traditional way of selling salt and increase profits.

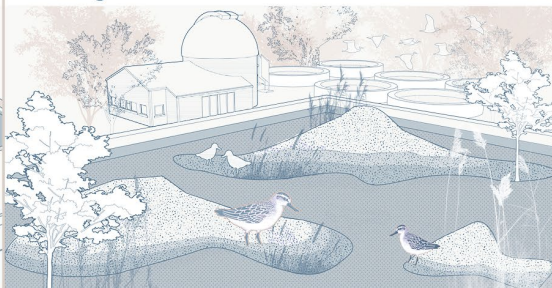
Stage3: comprehensive utilization and birds preservation

Efficient utilization of salt pans



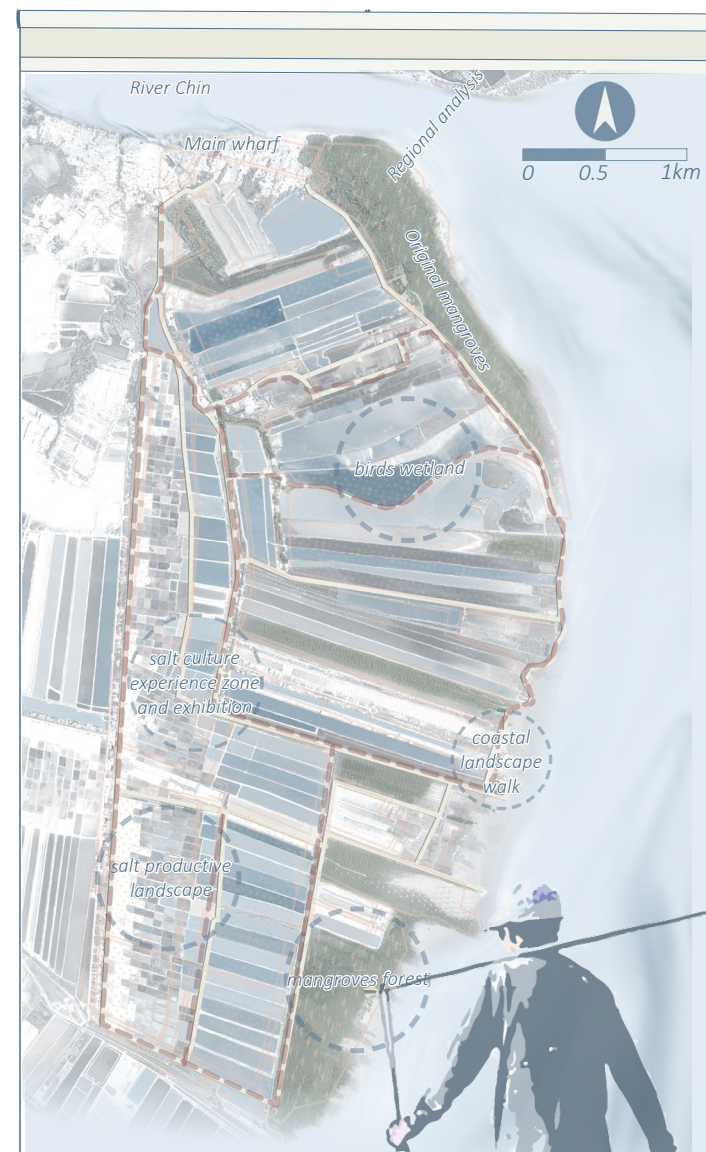
Making efficient use of salt pans, for salt production during the rainy season and for breeding shrimp in salt pans and rice paddies during the dry season after harvest.

Building bird habitat and observation station

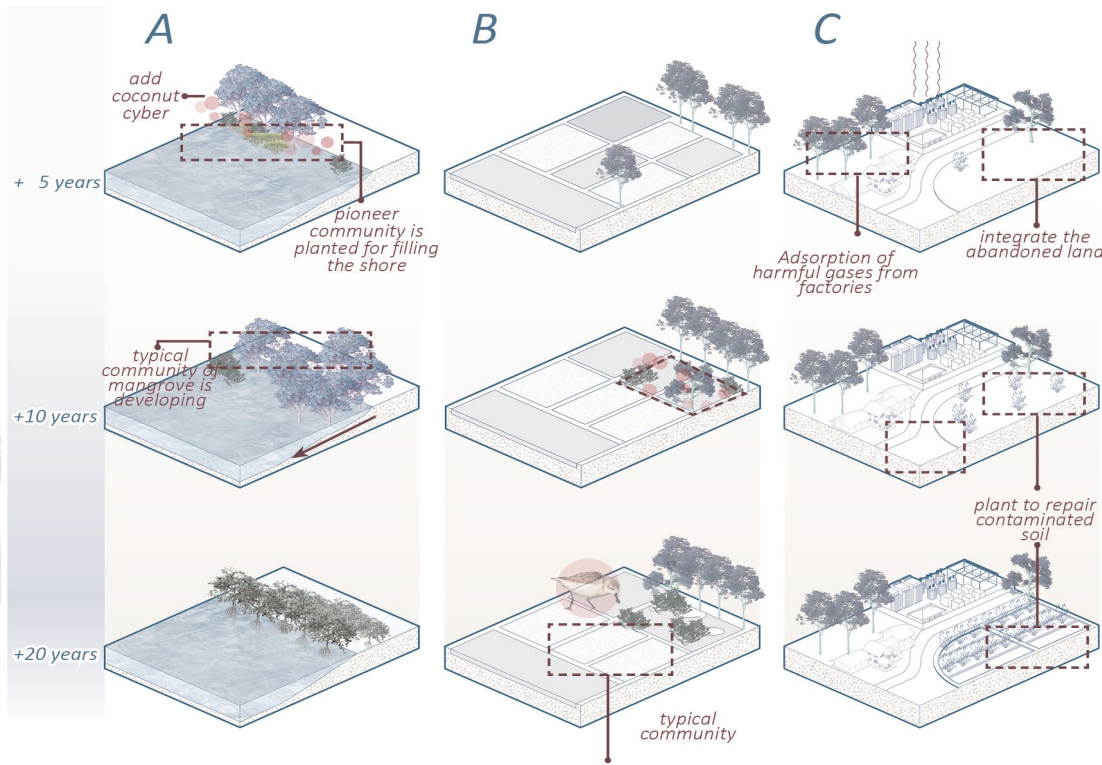
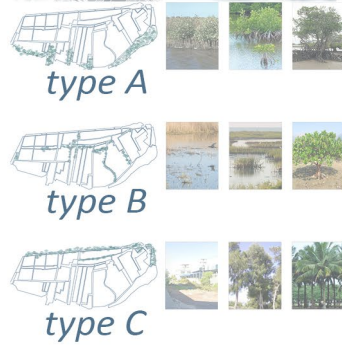
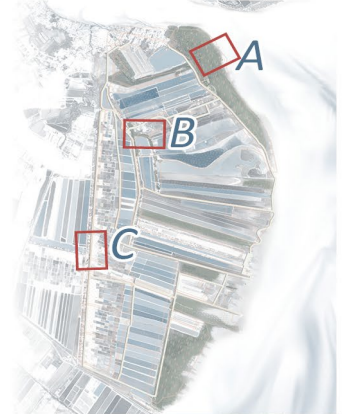


A Spoon-billed Sandpiper wetland will be created on the salt pans to protect the habitat space of the endangered species, and observation stations will be set up to record their habits.

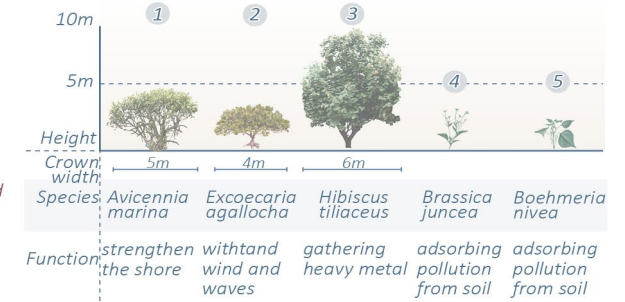
The Spoon-billed Sandpiper comes to SamutSakhon every winter and likes to live in the saline wetlands.



Ecological Restoration Analysis



Introduction to new vegetation



Prediction of mangrove change

