



Country / City Wuhan, China

University / School Huazhong University of Science and Technology

Academic year 2019-2020

Title of the project Balance of Life and Fire -- Building Carbon Sequestration System Based on Resilience

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TECHNICAL DOSSIER

itle of the project	Balance of Life and Fire Building Carbon Sequestration System Based on Resilience
Authors	Meng Shiqi, Chen Xi, Zhang Shixuan, Zhong Di, Hou Lingling
itle of the course	Landscape Architecture Planning Studio
Academic year	2019-2020
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Department/Section/Pro	ogram of belonging School of Architecture and Urban Planning, Department of
andscape Architecture	
Jniversity/School	Huazhong University of Science and Technology

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

Jambi Province and its surrounding areas were in great trouble of severe haze problems. This increasing carbon emissions was caused by local people burning rain forest to develop economic crops. Our project aims to change the existing local carbon cycle imbalance and rebuild a new carbon sequestration system.

Firstly, we will construct an ecological security pattern through sensitivity analysis. Then we will combine the pattern, local habitat types and human activity characteristics as a basis to plan three types of ecological carbon sequestration systems within the province: forest ecosystem, agricultural ecosystem and wetland ecosystems. In each of ecosystem, we will focus on the restoration of habitats and the development of industries as two key strategies. One is to use ecological composting measures to repair the soil and gradually restore habitat. The other is to develop ecological agriculture, fishery and tourism on the basis of the first step to solve the income problem of residents. In addition, we will treat atmospheric carbon concentration as an observation factor and set up monitoring facilities in each system to relieve rapid carbon emissions in a short time.

Once a dynamic balance between carbon emissions and carbon sinks in the system is re-established, the harmonious symbiosis between the economy and ecology will be achieved.

For further information

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