

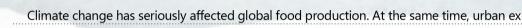
Country / City China/Harbin University / School Harbin Institute of Technology Academic year 2019-2020 Title of the project Urban Grain Fortress-- A Sustainable and Elastic Urban Food Security System Authors Yingsheng Deng, Kaidan Guan

## **TECHNICAL DOSSIER**

Title of the project Urban Grain Fortress-- A Sustainable and Elastic Urban Food Security System **Authors** Yingsheng Deng, Kaidan Guan Title of the course Research Design Studio

Academic year 2019-2020 **Teaching Staff** Xun Zhu,Wei Zhao Department/Section/Program of belonging Department of Landscape

University/School Harbin Institute of Technology



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

Climate change has seriously affected global food production. At the same time, urban expansion, population explosion, and shortage of resources are becoming more and more serious. The rapidly growing food demand has become one of the major security crises facing the world. This design aims to explore how to adapt to the adverse effects of climate change on traditional agriculture, establish a flexible and sustainable food security system in the city, use advanced technology to drive production, establish a water and energy recycling system, and combine production and marketing models. Reduce the dependence of the agricultural system on the climate environment, integrate it into the city, and promote the coordinated development of production and life. The design selected an urban waterfront plot to be renovated near Yangshupu Port in Shanghai, China for experimental design, thinking about the clues connecting the four dimensions of food production, water, energy and civic life to bulid a solid urban food bastion in Shanghai, exploring new and forward-thinking ideas for responding to the food security crisis in the context of climate change.

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