



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

11

TECHNICAL DOSSIER

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 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 build 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.



CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020
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For further information
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