

Country /City		Germai
University / School		RWTH Aachen University, Institu
Academic year		
Title of the project		Green-blue stre
Academic year Title of the project Authors	1	Lailly Vaz de

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nany, Gelsenkirchen-Ückendorf titute of Landscape Architecture Summer 2022 streets: resource-hub Ückendorf de Miranda, Marcus Hoffmann



TECHNICAL DOSSIER

Title of the project	Green-blue streets: resource-hub Ückendorf
Authors	Lailly Vaz de Miranda, Marcus Hoffmann
Title of the course	
Academic year	Design studio "Green-blue streets" (1 semester, 15 ECTS)
•	DrIng. Axel Timpe (LA), DiplIng. Sebastian Schlecht (LA), DrIng. Andreas Witte (ISB)
Teaching Staff	
Department / Section / Program of belonging Institute of Landscape Architecture (LA) in cooperation with Institute of	
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University / School	RWTH Aachen University, Institute of Landscape Architecture



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

Ückendorf is a neglected urban area in the post-industrial city of Gelsenkirchen and is frequently confronted with stormwater events flooding streets and basements in the area. Resource-hub Ückendorf proposes to regenerate the area by improving the existing streets, a close-by park and a WW II bunker and by creating new public spaces allowing to manage stormwater, storing water and thermal energy in the bunker transformed to a resource hub and improving the quality of life in the area. Based on the orographic analysis of the area the project proposes a green-blue masterplan distributing and guiding stormwater in a cascade of retention and infiltration areas in private and public space and using the park as a storage for the remaining overshoot. While being usable as pocket parks or playgrounds in dry periods, the redesigned public spaces can be filled with water during storm events. The historic WW II bunker with its thick walls will be transformed to store rainwater for service water use. A large water tank will as well serve as thermal storage connected with a local heating system to be developed.

While the redesigned main road of the area, Bochumer Straße will accommodate rainwater, the existing tramway and the car traffic also in the future, Stephanstraße with the local elementary school can be redesigned integrating bioswales as a main connection between the urban area and the park.

For further information

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SCHOOL PRIZE



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Stormwater event

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Green-blue pocket park





Stephanstraße with bioswale





