

street as stormwater flow path

soil filter / wetland

facade greening

permeable paving

shaded seats as cool retreats

decentralized rooftop discharge

green track

sufficient root space

street as stormwater flow path

stormwater retention in open space

quality of stay

infiltration swale

shading & cooling by evapotranspiration

stormwater tree pit

multifunctional streetscape design in urban neighborhoods

Blue Green Streets

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BlueGreenStreets: multifunctional streetscape design in urban neighborhoods

Funding program: BMBF RES:Z – Resource-efficient urban districts for the future

Duration: 2019 – 2022

Motivation: Green spaces and open water areas within cities are not only of great importance for quality of life, but also for the microclimate within neighborhoods. In growing cities, because of soil sealing, there is an increasing risk of losing green spaces and simultaneously an increase in the risk of urban flooding. The task of future urban development is therefore not only to develop different land uses side by side, but also to combine them. Urban greenery and urban flood protection need to be integrated into multifunctional streetscapes.

Objectives and procedure: The project's aims are to investigate, evaluate and further develop the effectiveness of (existing) planning instruments and regulations concerning urban green infrastructure, urban water management, the management of the rehabilitation of roads and canals, as well as the design and planning of streets and open spaces. Streetscapes should be designed to be sustainable and thus serve the multifunctional needs of urban neighborhoods.

Expected results and transfer: To increase resource efficiency in growing neighborhoods, planning tools will be developed together with key urban stakeholders and tested on-site in Hamburg, Berlin, Neuenhagen, Solingen, Bremen and Bochum. The transferability to other municipalities is ensured via the creation of model solutions which can be integrated into the streetscape.

Information: www.hcu-hamburg.de/bluegreenstreets | wolfgang.dickhaut@hcu-hamburg.de

Partners:



Hochschule Karlsruhe
Technik und Wirtschaft
UNIVERSITY OF APPLIED SCIENCES



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