Roads and streets connect settlements, markets, business plus people and they structure, divide and ruin landscapes, both rural and urban ones. Since thousands of years, ways, roads and streets have been +/- successfully been built according to climatic, economic and technologic requirements and developments.

With demographic change, climate change, transformation of the transport system and energy transition, roads and streets, their design and their ecological functionality need to be revised for rural and urban areas.

Blue-Green-Streets, describes a concept, in which water and vegetation is given back a higher importance in the system. Water is no longer discharged as fast as possible and plants are used as design and functional elements (Fig.1).

However, still only disciplinary understood and hardly quantified in its effects and efficiency, wrongly designed and implemented, blue and green elements in streets will not meet the high expectations some stakeholders relate to these nature-based solutions.

In this study project, students will critically review existing blue-green concepts for streets in urban or rural contexts with a holistic focus on their impacts on several aspects of the ecology and the society. It is the aim of the project to test and develop methods for the quantification of these impacts. The project starts with a personal meeting at the 05.11.2020, 14:00 - 16:00 near the Uni Campus (details will be given via ISIS after group assignment). It will then take place Tuesdays 14:00 -16:00 and Fridays 10:00 to 12:00 both online (please prepare yourself).

The project is offered by the Chair in ecohydrology and landscape evaluation. You will be supported by Thomas Nehls and several colleagues and external partners on your demand.

blue-green streets: https://www.hcu-hamburg.de/research/forschungsgruppen/reap/reap-projekte/bluegreenstreets/
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