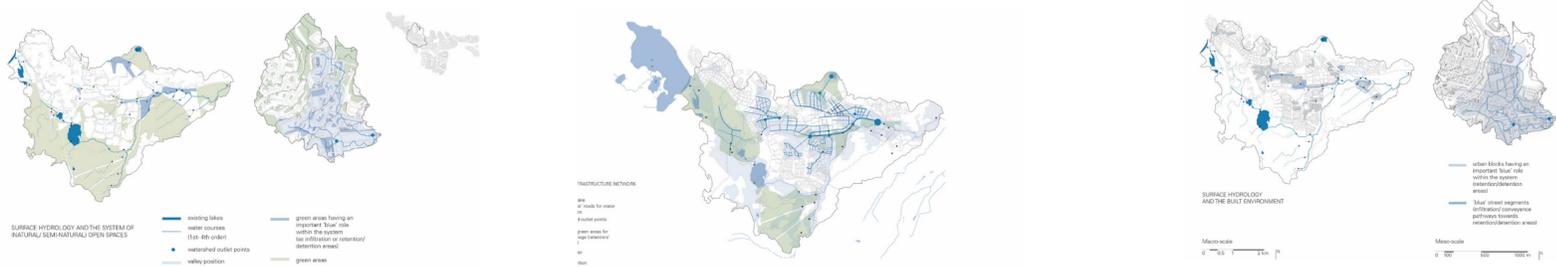


# Green Blue Cities

Traditionally, stormwater management was based on a ‘problem-centred’ approach which aimed on fast discharge of the surface runoff water through pipe networks. This approach involves several problems, (inter alia) flooding risks, environmental pollution and lack of livability. In this project we develop knowledge and tools required to seize the opportunities arising from future challenges, to manage urban stormwater in a way that facilitates robust, synergistic and multi-functional green infrastructure in dynamic urban areas. Based on needs expressed by the users in our three living labs where we bring together citizen, practitioners, decision makers, and researchers, we promote innovative, robust, synergistic eco-socio-technical solutions within the green or hybrid grey/green infrastructure area, that will address immediate and future climate and other changes in urban areas.

The project will be conducted in international urban living labs in the partner countries Sweden, Netherlands and Austria.



## Results and expected impacts

In Kiruna recommendations for an innovative green infrastructure design which is adapted to the arctic climate and an evaluation of the (storm)water system during the city re-location have been prepared. Also in Zwolle green infrastructure implementation plans have been supported; here in an expanding coastal city facing challenges due to climate change/rising sea levels. Organizational aspects tied to stormwater in the planning process have been addressed in all living labs. The outcomes will have a direct impact on the cities’ future work and support their decision making when implementing green infrastructure. Further, the outcomes have led to several scientific publications.

## Aim/objective

- Acceleration of the transition from piped drainage systems to the use of surface based green infrastructure or hybrid solutions of both.
- moving a ‘problem-centred’ stormwater management approach to one that is ‘opportunity-centred’.
- Promotion of multi-functional green stormwater infrastructure

## Approaches/methods

- Development of models and planning strategies for an attractive, sustainable urban landscape
- Development of inter-disciplinary strategies for increased implementation of green infrastructure
- Investigation of the functionality of green infrastructure in demanding climates

## Expected results and impacts

- In the Urban Living Labs we develop innovative, cross-sectoral knowledge and methods for implementation and maintenance of green infrastructure
- GREEN/BLUE CITIES facilitates the development of robust multi-functional urban stormwater management for improved urban livability.

### Green Blue Cities – Green/Blue Infrastructure for Sustainable, Attractive Cities

**Duration:** 2013–2016

**Internet:** [www.jpi-urbaneurope.eu/green-blue-cities](http://www.jpi-urbaneurope.eu/green-blue-cities)

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**Budget:** 1.600.000 EUR

**Partners:** Luleå University of Technology, University of Innsbruck, Delft University of Technology

## Involved cities/project examples

- Kiruna in sub-arctic Sweden where the whole (inner)city will be moved due to risks related to subsidences as a result of mining activities
- Zwolle in the Netherlands located in the IJssel delta which is prone to flooding as a result of changes of mixed origin (climate change, changed river effluent and changed levels of receiving water bodies).
- Alpine Innsbruck in Austria, where alpine peak stormwater conditions, flooding and lack of space for solutions are addressed.

## About JPI Urban Europe

JPI Urban Europe is a transnational research and innovation programme on urban transition. With the ambition to develop and validate new solutions for sustainable and liveable cities, a cooperation platform and programme is provided to connect urban stakeholders, researchers, cities, business and society

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