

Presentation Agenda

- 1. Short introduction to SPONGE 2020
- 2. 'Customer Journey' through Sponge toolbox
- 3. Next steps



SPONGE 2020

- Overall Objective:
 - "improve the adaptation capacity of cities and densely-built areas in the 2-seas region by co-creating and implementing innovative climate change adaptation solutions with local stakeholders."
- SPONGE2020 is NOT about technical measures!





Project Outputs

The project will deliver **four key outputs**:

- 7 complementary pilot demonstrator projects to implement innovative SuDS solutions with heavy involvement of local stakeholders
- 1 toolbox for stakeholder engagement in climate adaptation
- 1 guidance pack for participative climate adaptation in densely built areas

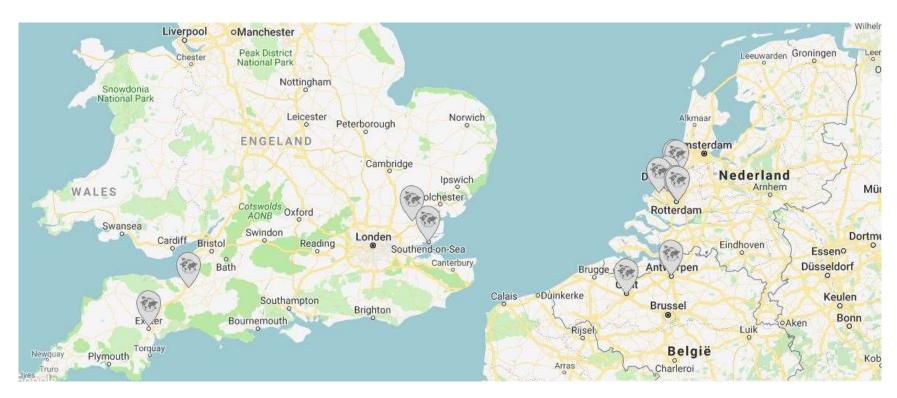
2 Seas Mers Zeeën

SPONGE 2020

European Regional Development Fund

 1 Cross-border action plan to introduce participative local climate strategies

2-Seas Area





Project Partners



Municipality of Rotterdam
The Netherlands



Somerset County Council
United Kingdom



Provincie Oost-Vlaanderen Belgium



Essex County Council
United Kingdom



City of Antwerp Belgium



Westcountry Rivers Trust United Kingdom



Regional water authority of Delfland
The Netherlands



Municipality of Westland
The Netherlands



Southend-on-Sea Borough Council United Kingdom



Municipality of Leiden
The Netherlands



Schieland en de Krimpenerwaard Regional Water Authority The Netherlands



Rijnland District Water Control Board The Netherlands

Urban morhpology types

Pilots:

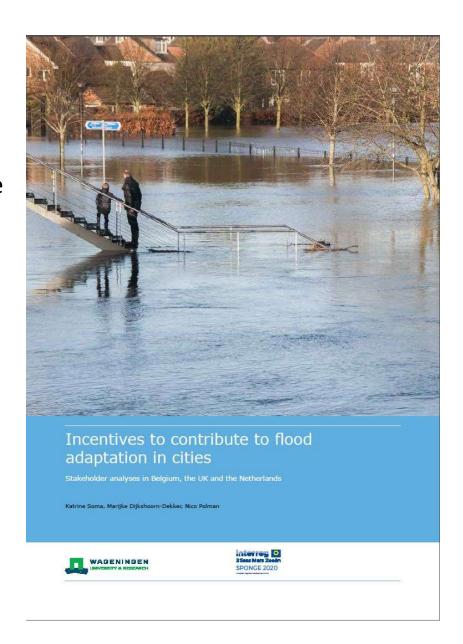
- City district with social housing and small enterprises
- Urban public spaces in a densley built port
- Major public institution hospital
- Peri-urban sites on medium-sized towns
- Town centre on tourist coastal seafront
- Residential area
- High density greenhouse area
- Densely built historic city



Toolbox stakeholder participation

- Climate adaptation is not (just)

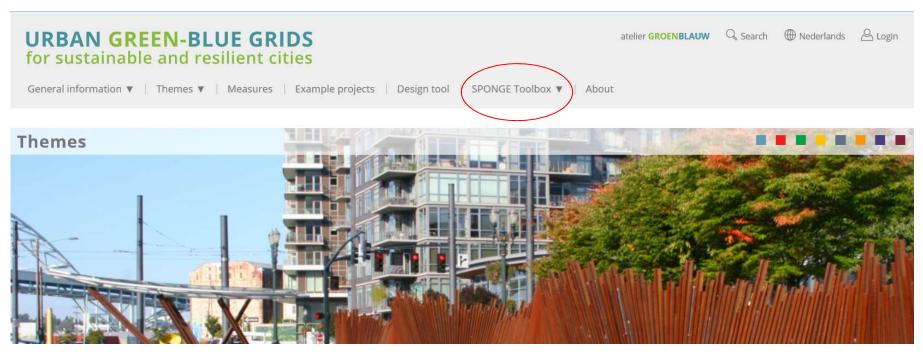
 a technical challenge it is a social and community challenge
- How to involve other partners in climate adaptation action, e.g. communities, hospital, agricultural businesses, businesses in town centres, etc.
- Use of knowledge from behavioural science experts (Wageningen Uni)
- Experiences from Sponge pilot projects (monitoring & evaluation)



Toolbox Structure

- 1. Five steps to stakeholder engagement
- 2. Types of stakeholders
- 3. Methods to engage stakeholders
- 4. Pilot projects

https://www.urbangreenbluegrids.com/sponge/



1) Five steps to stakeholder engagement



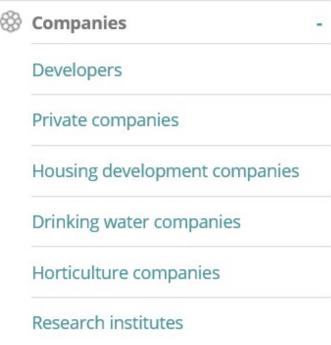




2) Types of stakeholders

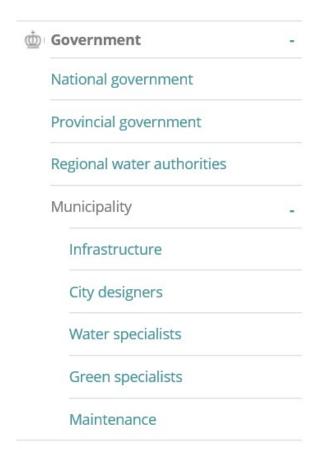








2) Types of stakeholders Cont'd









3) Methods to engage stakeholders





























































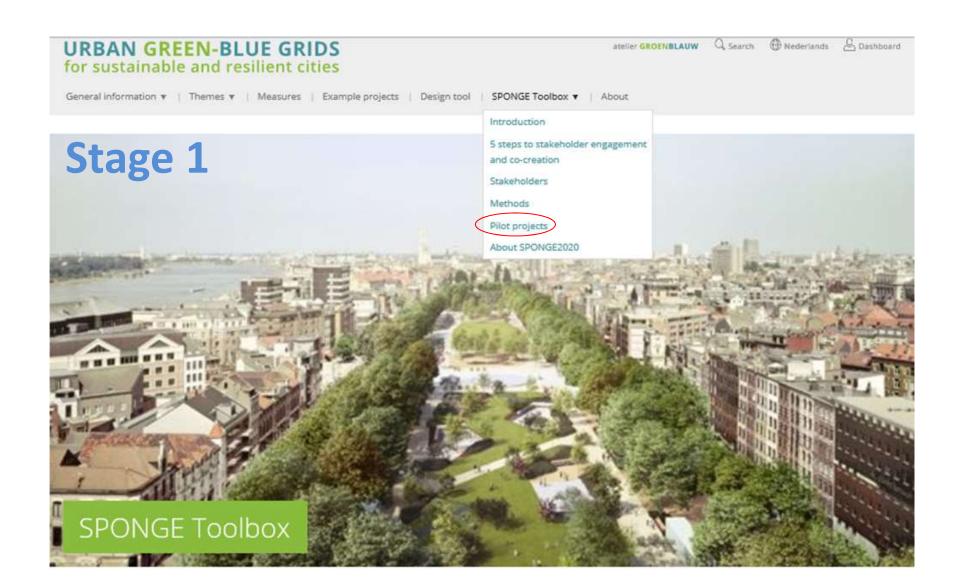
4) Pilot projects

- **1. Leiden:** Transforming a carpark into a green park
- 2. Southend-on-Sea: Retrofitting SuDS at City Beach, Marine Parade
- **3. Delfland & Westland:** Working in cooperation with greenhouse growers to create capacity in their water basins ahead of heavy rainfall
- 4. Antwerp: Co-creating a Garden Street
- 5. Somerset & WRT: Demonstration Raingardens
- **6. HHSK & Rotterdam:** Retrofitting SuDS at neighbourhood level Agniesebuurt
- 7. Essex: Retrofitting SuDS at Basildon Hospital



Customer journey for the toolbox





About this toolbox

This toolbox pulls together insights from behavioural science and public sector marketing with proven practices in stakeholder engagement work. It provides local (water) authorities (partners and other actors) with tools to effectively mobilise local stakeholders in climate adaptation.

Discover the interests of different stakeholders

Stakeholders











General information ▼ | Themes ▼ | Measures | Example projects | Design tool | SPONGE Toolbox ▼ | About

5PONGE Toolbox > Pilot projects

Pilot projects

Stage 2

























SPONGE Toolbox » Pilot projects » Essex SPONGE 2020 Pilot





DATA

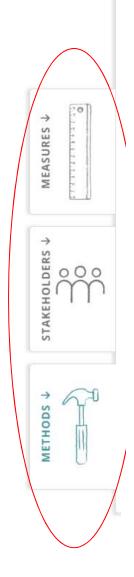
03330139536

Location: Essex, UK
Realization state/year: Complete - 2019
Start year: 2018
Designer: Ringway Jacobs
Contact: Aleksandar Bogdanov, Project Coordinator, ECCaleksandar.bogdanov@essex.gov.uk;

What is the problem?

Essex County Council, as the Lead Local Flood Authority, has duties to manage local flood risks and prepare and maintain a strategy for local flood risk management. As part of that, the Council produces localised Surface Water Management Plans (SWMPs) – preferred strategies for the coordinated management of surface water flood risk within a given area. In the South Essex SWMP (2012) surface water flooding was highlighted as an issue causing problems in localised areas in Basildon.

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SPONGE 2020
European Regional Development Fund



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Measures - Heat - Reducing heat with vegetation - Creating, maintaining and improving green areas and unhardening surfaces



city park © pxhere.com

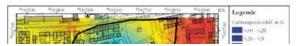




Small areas of vegetation, for example green inner-city areas, do not have any effect on a town or city's climate, though they do affect its microclimate. Small green zones are oases in the urbanised area, where the shade provided by trees and the fewer hot, paved surfaces mean that air and surface temperatures are lower. Many possibilities for introducing green areas into towns and cities on a small scale have not yet been utilised, for example between the rails of tramlines and in places of unused paved surfaces.

Parks of 2.5 hectares or more in size have a measurable cooling effect on the surrounding areas. Ideally, the parks should be designed to have grass and shrubs, and the trees should be spread far enough apart to allow the wind to blow through them freely. The cooling effect is caused by the evapotranspiration and the shade. At night the cooling effect is greatest, when air flows between the park and the surrounding areas. The effect reaches half of the diamter more or less proportionate to its diameter.

Grids of connected green areas function in a similar manner. [[Ministerium für Klimaschutz NRW, 2011]]



Related projects



't Geertje farm, Zoeterwoude, The Netherlands



Agniesebuurt Rotterdam, The Netherlands



Bo01, Malmö, Sweden



Brasserhout, The Hague, The Netherlands



Co-creating a garden street



->

MEASURES

Essex SPONGE 2020 Pilot



EVA-Lanxmeer: Living Lab



Hof van Heden, Hoogvliet, Rotterdam



Jenfelder Au, Hamburg



Kristalblad, Hengelo/Enschede



Landscape park Duisburg-Nord



Leiden: Noorderkwartier- Oost



Plan Tide, Dordrecht, the Netherlands



Portland, Oregon, US



Redevelopment of the River Scheldt left bank



Rijkswaterstaat office in Terneuzen, The Netherlands



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General information ▼ | Themes ▼ | Measures | Example projects | Design tool | SPONGE Toolbox ▼ | About

SPONGE Toolbox > Pilot projects > Essex SPONGE 2020 Pilot



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Stakeholders

Citizens

Drinking water companies

NGO's



SPONGE Toolbox > Stakeholders > Grass-root organizations

Stakeholders





Grassroots groups are typically made up of members of the community who have been brought together around a certain issue. These groups and organizations use collective action on a local scale to bring about change, to encourage community members to take responsibility for local pressing issues and to take action.

In climate mitigation projects, grassroots and citizen associations are essential to activate local people and ensure their commitment. These groups may be interested in a specific geographical region or a specific social or environmental issue. By promoting the project to existing groups, it can be easier to communicate in a targeted way and to ensure that people with different backgrounds and interests are involved.

Related pilots

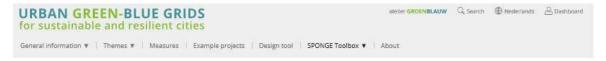


Green roofs on Leiden Station area



SuDS in Somerset

SPONGE 2020



PONGE Toolbox - Pilot projects - Essex SPONGE 2020 Pilot

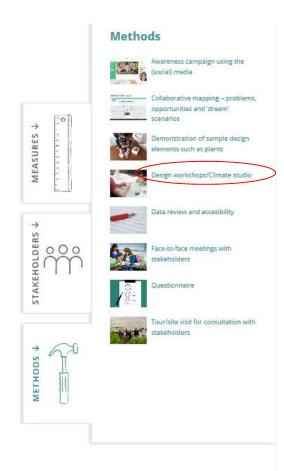


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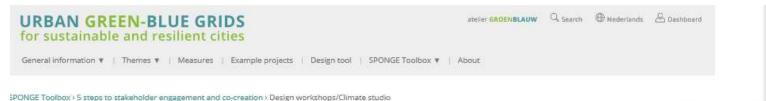
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5 steps to stakeholder engagement and co-creation

« all strategies



A design workshop is an intensive session in which a small group of participants explore topics related to a specific problem and redesign project features. All significant stakeholders should be invited to send a representative participant. A design workshop can also contribute to sharing information and increasing participants' understanding of the project.

To start, the designer presents principles that underpin the planning and design process for participants. Ideally all those present should be given oppurtunity to explain their wishes and demands. The group can then be divided into subgroups which discuss ideas and assess alternative solutions to design solutions already in place. Then each subgroup presents it's result to the larger group. Ideas and alternative solutions can also be discussed in plenary sessions. The group then seeks consensus and tries to decide on a final resolution for the preferable approach. The result of the design workshop/climatestudio consists of the making a definitive version of the design, presenting the whole process and its outcomes.





Redevelopment of the River Scheldt left bank



Sint-Andries: working together towards a climate robust neighbourhood



Co-creating a garden street



Essex SPONGE 2020 Pilot



Climate adaptation measures at World Horti Center



Liermolensloot



Zuiderdokken – Pilot project for climate adaption in Antwerpen city



SuDS in Somerset



Green roofs on Leiden Station area



Leiden: Noorderkwartier- Oost





Next steps

- Website will be online September 17 2019
- Extra projects will be added
- Dissemination of the toolbox to other professionals
- Official presentation at World Adaptation Week -September 2020 in Rotterdam



Thank you for your attention

