



LIFE URBAN-ADAPT - LIFE URBAN-ADAPT:
demonstrating urban climate adaptation and
resilience in inner city Rotterdam

LIFE14 CCA/NL/000302



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Project description:

Background

Climate change is a global development issue, with the potential to cause serious problems for the urban environment: 1. Increased flood risk because of increased precipitation and rising water levels; 2. Increased temperatures resulting from the urban heat island effect; and 3. Deterioration of native flora and fauna on land and in water.

Rotterdam is the first major European city with an approved climate adaptation strategy. Implementation in public areas is ongoing, but to make real strides, climate adaptation has to be significantly scaled up. This requires the participation of not just the City of Rotterdam, but also other private and public stakeholders in the targeted areas.

This complicated process requires close collaboration with all relevant parties to identify mutual benefits from the implementation and maintenance of effective climate adaptation measures.

Objectives

The main goal of LIFE URBAN-ADAPT is to demonstrate an innovative, participatory approach as an essential element in creating acceptance and commitment among the public and stakeholders for large-scale implementation of urban adaptation strategies and related measures. The project will test a participatory approach in two different settings. The project will also create a

blueprint for development of a climate change strategy and for participatory decision-making processes that are necessary for implementing urban climate adaptation strategies on a large scale. Finally, the project will increase the climate resilience of two districts (ZoHo and the Nieuwe Maas), while restoring their eco-systems and biodiversity.

Expected results: The project will implement two participatory urban climate adaptation approaches in very different settings, with the following concrete outcomes:

- In ZoHo: o 11 550 m² of newly planted green infrastructure; o 10% reduction of nitrogen dioxide air pollution; o Placement of 100 (SMART) water barrels; o 800 m³ additional water storage capacity; o 20% reduction in reported sewage overflow events; o 0.5 degrees Celsius reduction of surface temperature; and o 250 people involved in climate adaptation strategies.
- In the Nieuwe Maas: o 37 500 m² innovative green borders in Nassauhaven and Mallegatpark; o A significant increase in biodiversity at the demonstration sites; o A significant improvement in water quality at the demonstration sites; o Improvements in public perception and engagement in the targeted areas; o 37 500 m² reduction in hard river banks; and o Improved accessibility and use of riverside areas.

Results

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Environmental issues addressed:

Themes

Land-use & Planning - Green infrastructure

Climate change Adaptation - Resilient communities

Information - Governance - Public and Stakeholders participation

Keywords

sea level rise, river, urban planning, coastal area, social participation, restoration measure, flood protection, climate adaptation strategy, ecosystem-based approach, heat island effect

Target EU Legislation

- Water
- Directive 2007/60 - Assessment and management of flood risks (23.10.2007)

- Climate Change & Energy efficiency
- COM(2013)216 - EU Strategy on adaptation to climate change (16.04.2013)

Natura 2000 sites

Not applicable

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Beneficiaries:

Coordinator	Gemeente Rotterdam
Type of organisation	Local authority
Description	The municipality of Rotterdam (Gemeente Rotterdam) is responsible for the day-to-day running of the city within the national legislative and policy framework set by the Dutch government. The Rotterdam Municipal Executive aims to develop the city into a clean, green and healthy place where sustainability contributes to a strong economy, and has created the Rotterdam Sustainability Programme to promote these ends. Internationally, Rotterdam is part of the Large Cities Climate Leadership Group (the C40) and the Clinton Climate Initiative, cooperating with such cities as Shanghai, Houston and London.
Partners	WNF(Stichting Het Wereld Natuur Fonds-Nederland), Netherlands RWS(Rijkswaterstaat), Netherlands

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Administrative data:

Project reference	LIFE14 CCA/NL/000302
Duration	16-JUL-2015 to 31-DEC -2021
Total budget	10,362,411.00 €
EU contribution	2,767,982.00 €
Project location	Zuid-Holland(Nederland)

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Read more:

Poster	Title: "LIFE Urban Adapt" (865 KB) Editor: City of Rotterdam No of pages: 1
Project web site	Project's website
Publication: Article-Paper	Title: "Developing local districts: Climate adaptation in practice. IN: Connecting water with opportunities, p.32-35" (315 KB) Author: Bart Peters, Laurence Peels, Henk Koedijk Editor: Delta Rotterdam No of pages: 2
Publication: Article-Paper	Title: "New parks on the banks of the new Meuse. IN: Connecting water with opportunities, p.10-12" (220 KB) Author: Walter de Vries Editor: Delta Rotterdam No of pages: 3
Slides Presentation	Title: "Rivier als getijdenpark" (11.1 MB) Author: Walter de Vries Editor: De Urbanisten No of pages: 30
Slides Presentation	Title: "The River as tidal park 2018-2020" (11.6 MB) Author: Pieter de Greef No of pages: 21
Video link	"Ontdek de getijdenparken in the Rotterdamse regio"(3')

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