

A photograph of a residential street completely submerged in floodwater. Several cars are parked along the sides of the street, and a small, colorful boat with two people is visible in the center of the flooded area. Residential buildings with multiple windows line both sides of the street.

# RainGain

## International Workshop on Urban Pluvial Flood Modelling

Exeter, 6 October 2014

Marie-Claire ten Veldhuis  
Project coordinator RainGain

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## *Four cities gain rain*

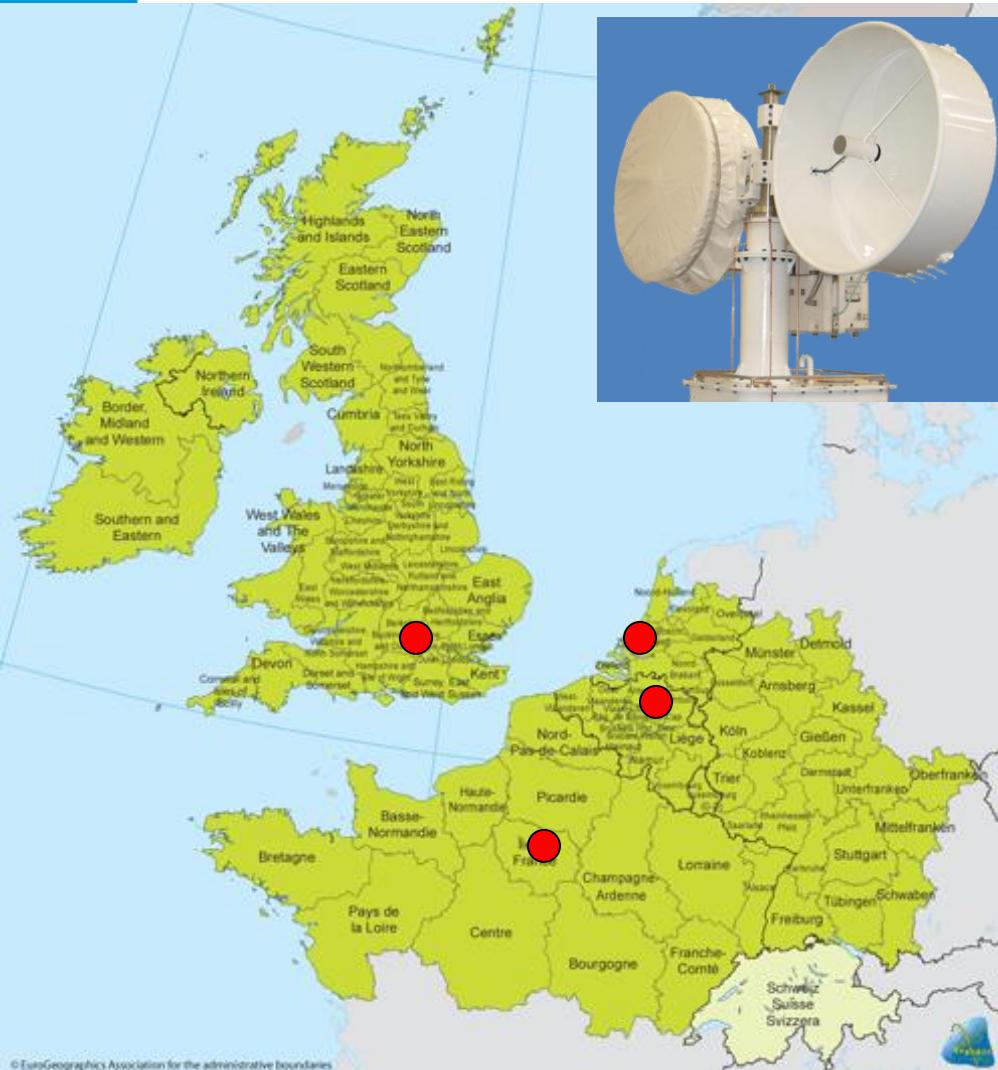
RAINGAIN is a transnational project aimed at improving the prediction of pluvial floods in our cities. The frequency and the damages of pluvial floods in urban areas are expected to increase as a consequence of climate change and urban development. New solutions are needed to cope with intense storms and to reduce the risks for populations and infrastructures. RainGain develops and tests innovative tools and practices based on the use of high resolution radars in four pilot cities: Leuven, London, Paris, Rotterdam. The project is funded by the European programme Interreg IVB NWE.

[Read More](#)

**[www.RainGain.eu](http://www.RainGain.eu)**

# RainGain

High resolution rainfall radar  
for urban flood modelling and prediction



Xband/Improved Cband  
radars in 4 Cities:

**Rotterdam (NL)**

**Leuven (B)**

**Paris (F)**

**London (UK)**





This project has received  
European Regional  
Development Funding  
through INTERREG IV B.

INTERREG IV B

# To prevent:



Morée-Sausset, FR



Sucy-en-Brie, FR



Torquay, UK



Redbridge, UK



Rotterdam,  
July 2012



# RAINGAIN: 13 Partners

- 1) TU Delft (NL)
- 2) Zuid-Holland Province (NL)
- 3) Gemeentewerken Rotterdam (NL)
- 4) KU Leuven (BE)
- 5) Aquafin NV (BE)
- 6) Ecole des Ponts ParisTech (FR)
- 7) Marne-la-Vallée (FR)
- 8) Seine-St.-Denis (FR)
- 9) Météo France (FR)
- 10) Véolia (FR)
- 11) Imperial College London (UK)
- 12) Met Office (UK)
- 13) Local Government Flood Forum (UK)

## 4 Pilots:

Rotterdam (NL)

Leuven (BE)

Marne-la-Vallée (FR)  
Seine-St.-Denis (FR)

Croydon (UK)  
Redbridge (UK)



➤ High resolution radars:

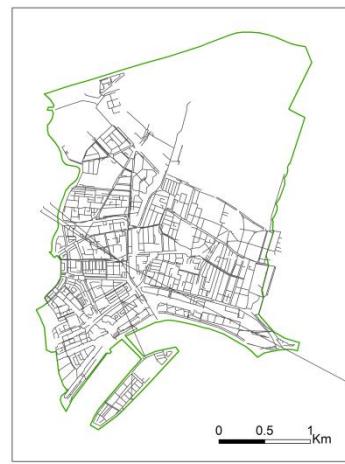
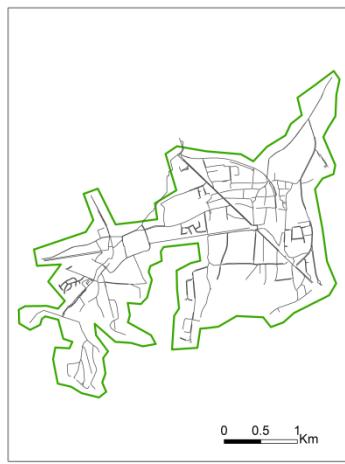
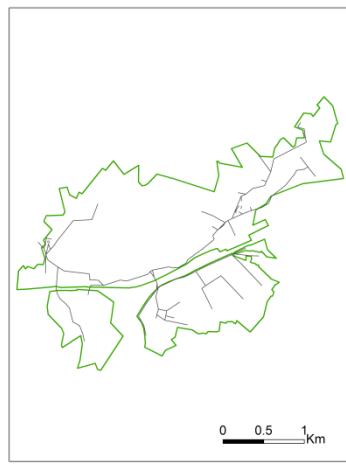
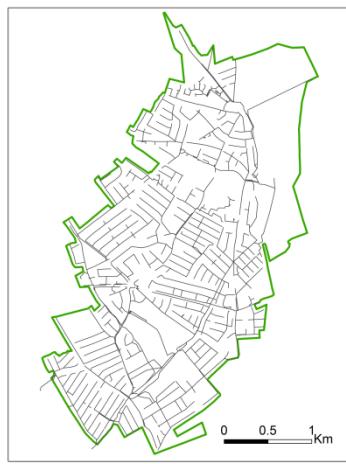
- Leuven: new algorithms existing Xband radar, single pol
- London: tests Xband radar, single pol; Cband network, dual pol
- Paris: new, dual pol Xband radar constructed, installation Autumn 2014
- Rotterdam: new, dual pol Xband radar constructed, installation Autumn 2014



➤ Urban flood modelling:

- Flood Models in 10 pilot locations in BE, FR, NL, UK
- International study, 4 pilots compared: response to fine-scale rainfall input (ongoing work)

Cranbrook (UK)	Morée-Sausset	Herent (BE)	Kralingen (NL)
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# RainGain

*High resolution rainfall information for improved flood control in urban areas*



Solutions for urban flood control:

- Application of radar information and flood models in practice
- Local Authorities meeting: 23 October 2013  
Participants from FR, BE, NL and UK; exchange of experiences
- 2<sup>nd</sup> Local Auth meeting: 8 October, London)

SEARCH  FOLLOW US

Investing in Opportunities  
This project has received European Regional Development Funding through INTERREG IV B.

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From 8 October 2014 To 8 October 2014

## RainGain 2nd Local Authorities Meeting in London

Grimond Room, Portcullis House, SW1 (9:00-10:45) &

Council Room, One Great George Street, SW1 (11:00-16:30)

> [CLICK HERE](#) for hotel recommendations in London.

Aim

The aim of the day is to build upon the Conference at MACVAL, Vitry-sur-Seine and develop the engagement of local government with the RainGain project.

Overview

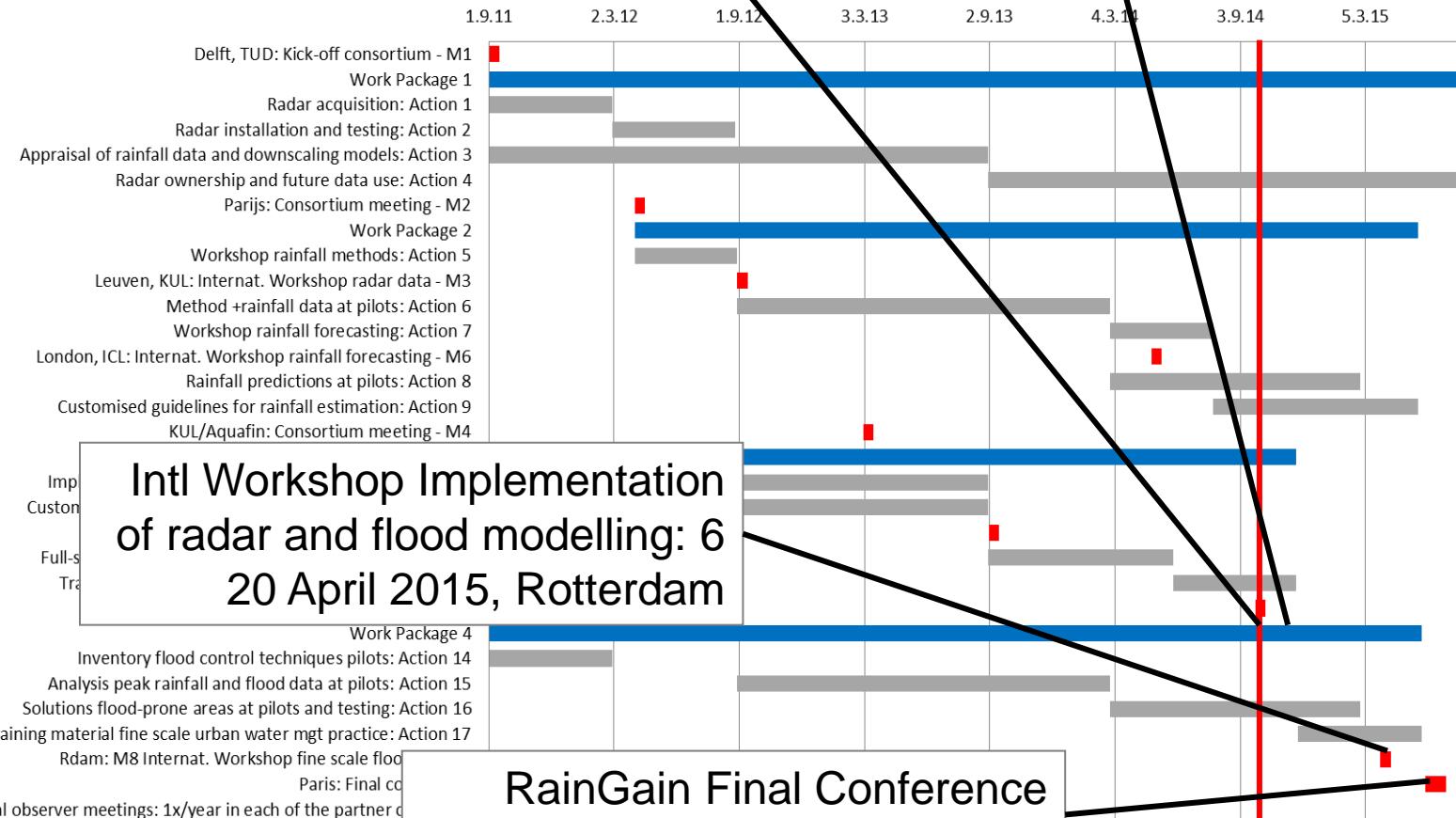


# RainGain Project Planning

Project consortium meeting  
7 October 14: Exeter

Intl Workshop Urban Pluvial  
Flood Modelling: 6 October  
2014, Exeter

Start date: 1 Sep 2011  
End date: 31 July 2015



RainGain Final Conference  
Paris, summer 2015



Enjoy today's Workshop