



RainGain

- International Workshop on Fine-scale
Rainfall Nowcasting -

Antwerp, 31 March 2014

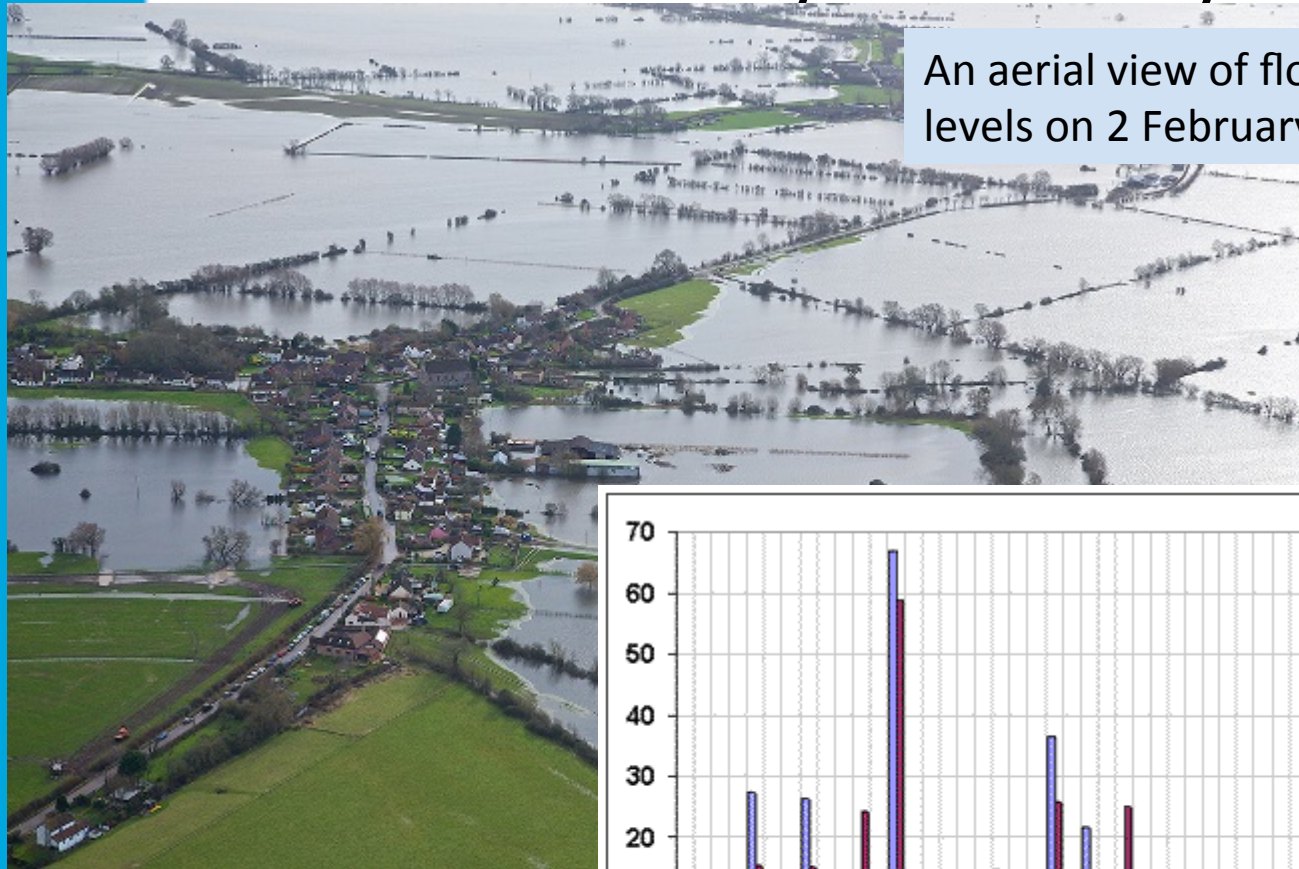
**Marie-Claire ten Veldhuis
Project coordinator**



The challenge: coping with heavy rainfall in cities

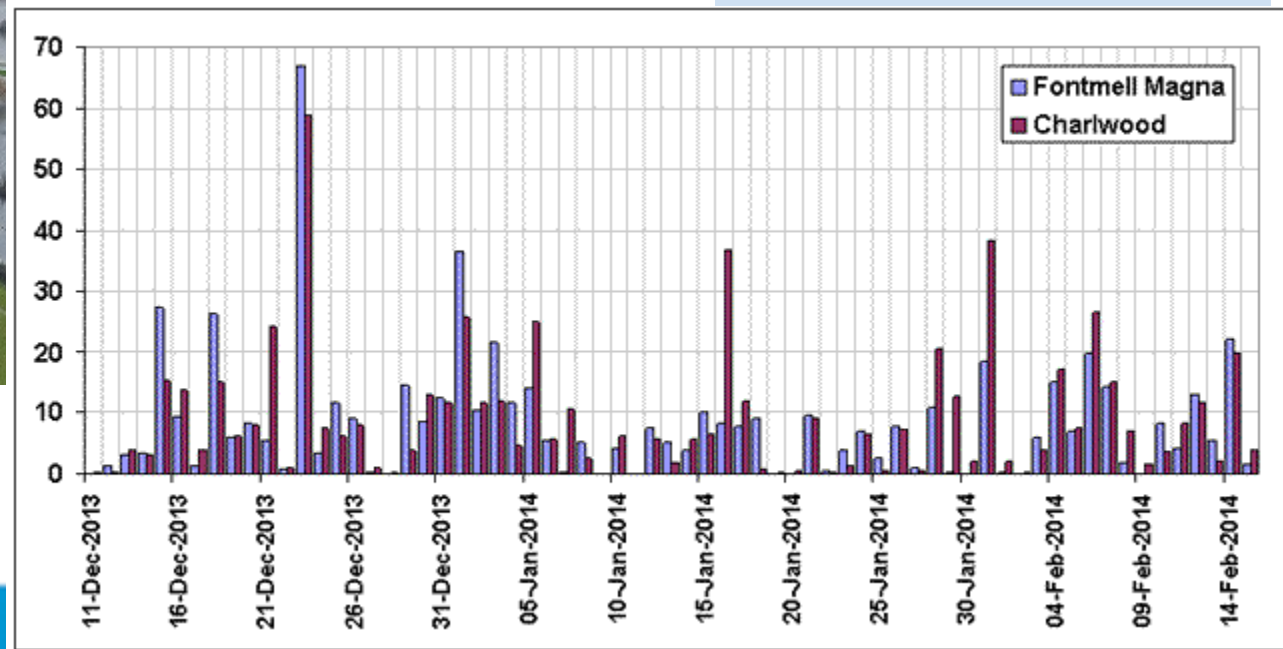
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UK Flooding January – February 2014



An aerial view of flooding on the Somerset levels on 2 February

Daily rainfall totals (mm) for two stations in southern England 11 December 2013 to 15 February 2014



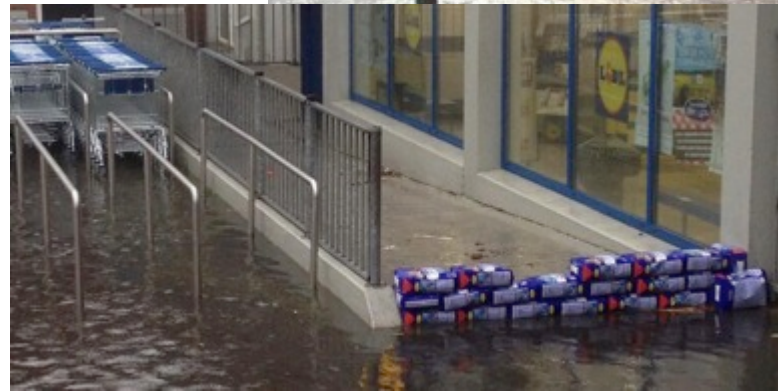
NL Flooding 12-13 October 2013



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

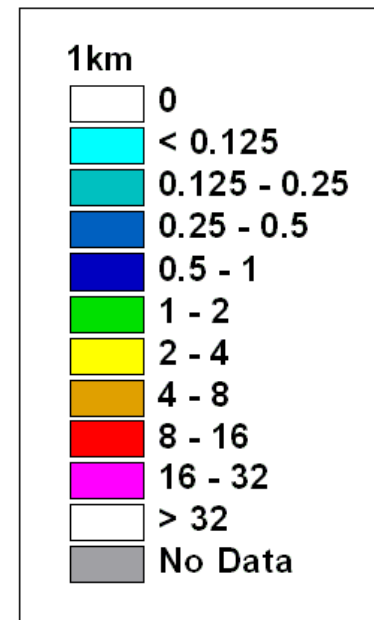
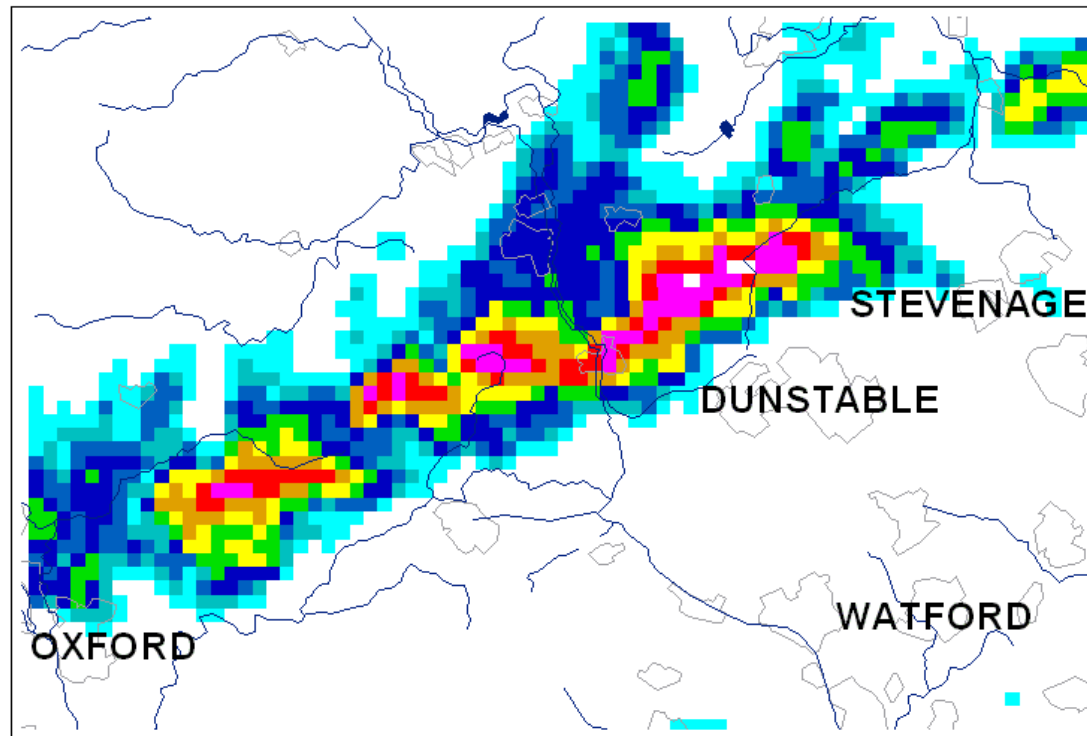


INTERREG IVB



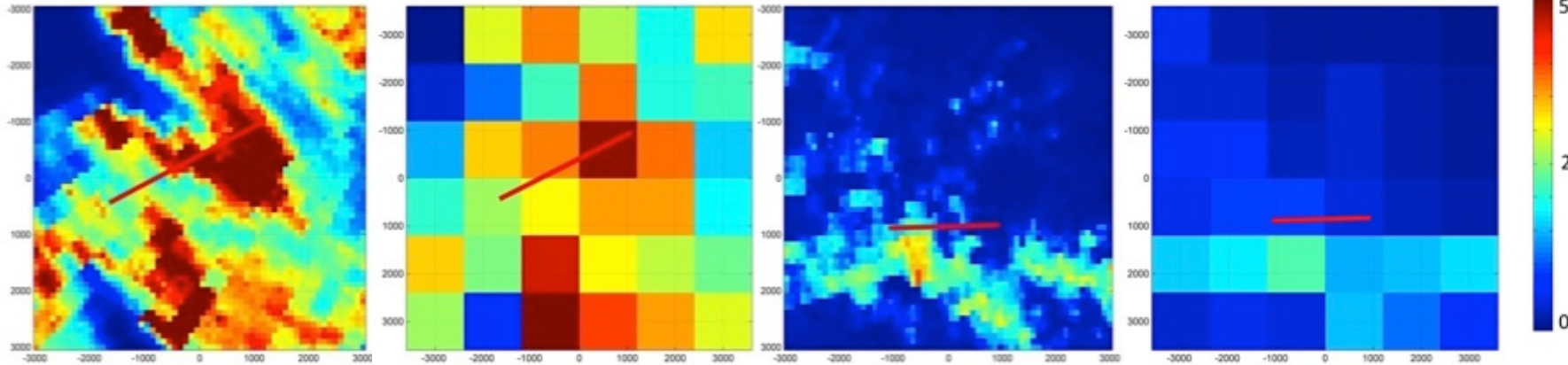
(Part of) the Solution: high spatial resolution & better accuracy radar rainfall data

Chenies 1km radar data



Example: Dual-pol X-band radar Cabauw

Convective – 28/06/2011		Stratiform – 29/10/2012	
(100 m resolution)	(1000 m resolution)	(100 m resolution)	(1000 m resolution)

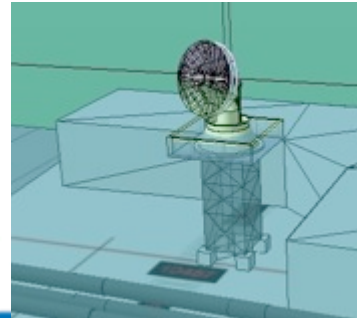




Progress to date:

➤ High resolution radars:

- Leuven: new algorithms existing Xband radar, single pol
- London: tests Xband radar, single pol
- Paris: new, dual pol Xband radar constructed, installation later in spring
- Rotterdam: new, dual pol Xband radar constructed, installation in spring





RainGain

High resolution rainfall information for improved flood control in urban areas



Progress to date:

- Rainfall data processing and forecasting:
 - International Workshop Rainfall Estimation: 16 April 2012
 - International Workshop Rainfall Nowcasting: 31 March 2014
 - Review document Fine-scale Rainfall Estimation – Methods and Procedures



Progress to date:

- Urban flood modelling:
 - Flood Models in 10 pilot locations in BE, FR, NL, UK
 - Models in 4 pilots compared: response to fine-scale rainfall input (to be continued)

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

High resolution rainfall information for improved flood control in urban areas



Progress to date:

➤ Solutions for urban flood control:

Local Authorities meeting: 23 October 2013

- ➔ Examples from France, Belgium, NL and UK
- ➔ Discussion on insurance schemes for urban flooding



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EVENTS
Upcoming events
Past events
Local Authorities Meeting
RainGain at Festival de l'Oh
National Observers Groups meetings
Workshops and seminars
Project meetings
Kick-off Meeting

RainGain Local Authorities Meeting - 23rd October 2013

The European Local Authorities' Meeting on High-Resolution Water Management aimed to foster an exchange on Local Authorities' experiences and the need of high-resolution data and modeling. The feedback from the stakeholders of France, the United Kingdom, the Netherlands and Belgium will contribute to shape the future project's plans. The detailed agenda and the presentations are available on this page (in the right-hand column).



DOWNLOADS
pdf Final Programme of the Local Authorities Meeting held on 23rd October 2013
pdf Presentation of the RainGain Project - by M. ten Veldhuis
pdf Use of the Hydrix radar and the Rainpol platform in Antibes - by Aicardi and Emphoux
pdf Use of Multi-Hydro flood model in Manchester - by Richard and Giannola-Murzin

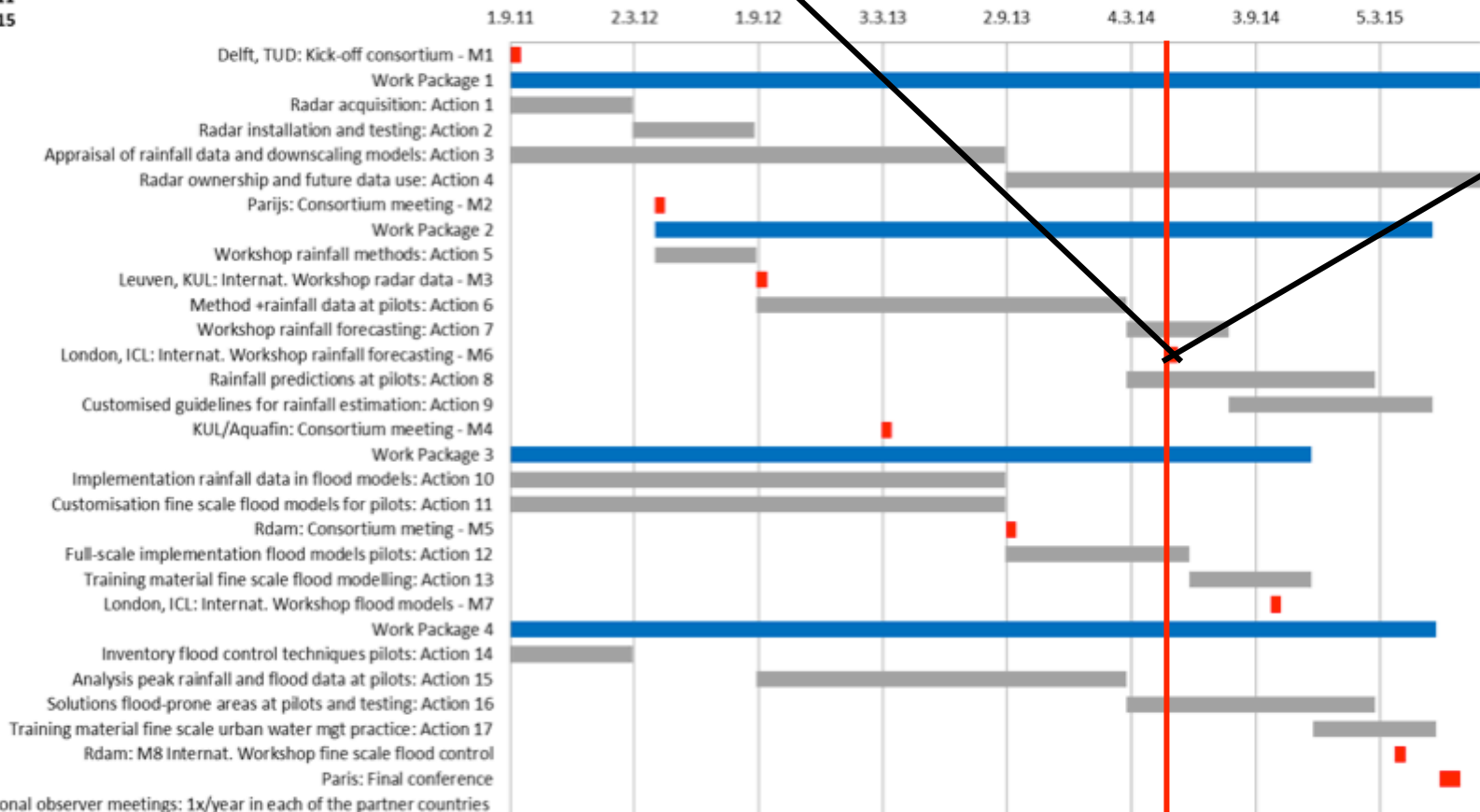
More information:
www.raingain.eu



Project consortium meeting
1 April 2014: Antwerp/Aartselaar

Workshop Rainfall Forecasting:
31 March 2014, Antwerp

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



- Installation of radars in Paris and Rotterdam: spring 2014
- National Observer Groups (BE, FR, UK, NL) in March-June 2014
- International Workshop on Rainfall Nowcasting: Antwerp, 31 March 2014
- International Workshop on urban flood modelling: London, 6/7 October 2014
- RainGain@international events: Weather Radar and Hydrology Conference (WRaH, April 2014); EGU, Special session on Precipitation and Urban Hydrology (April 2014)
- RainGain@National events: VLARIO Day ("Flemish Sewers"); Festival de l'Oh, Deltas and Climate Change etc.

- Welcome and introduction
- Radar-based rainfall forecasting by national meteo services
- Coffee break
- Methods for fine-scale rainfall nowcasting
- Lunch
- Methods for fine-scale rainfall nowcasting & quantification of uncertainties
- Coffee break
- Discussion on recommended methods for fine-scale rainfall nowcasting by RainGain WP2 + planning



Thank you



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