



RainGain

NOG FR meeting

20/04/12

<http://www.raingain.eu>



Ordre du jour

09:30- 09:35: tour de table

09:35- 09:50: présentation succincte du project RainGain

09:50-10:20: objectifs principaux des partenaires

10:20-10:40: point de vue des observateurs

10:40-11:00: implantation du radar X FR en Ile-de-France

11:00-11:45: Using Forecast for RTC in Copenhaguen (M. Grum, Kruger A/S, DK)

11:45-12:30: CASA experiment and perspective (D. McLaughlin, U. Mass. Amherst, USA)

12:30-13:30: déjeuner

RainGain



- INTERREG NWE: [http://
www.nweurope.eu/](http://www.nweurope.eu/)
- HQ in Lille, National Contact Point there too,
 - financial instrument of the European Union's Cohesion Policy
 - funds projects which support transnational cooperation
 - tackle shared problems of Member States, regions and other authorities
- prime role of communication
 - keep records of meetings etc.
- 50% cofinancing max.
- no national coordinator, but a national site.

- **Objective:** to improve fine-scale measurement and prediction of rainfall and to enhance urban pluvial flood prediction in order to enable urban water managers to adequately cope with intense storms, so that the vulnerability of populations and critical infrastructure can be reduced.



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

Pilots sites:

Rotterdam (NL)

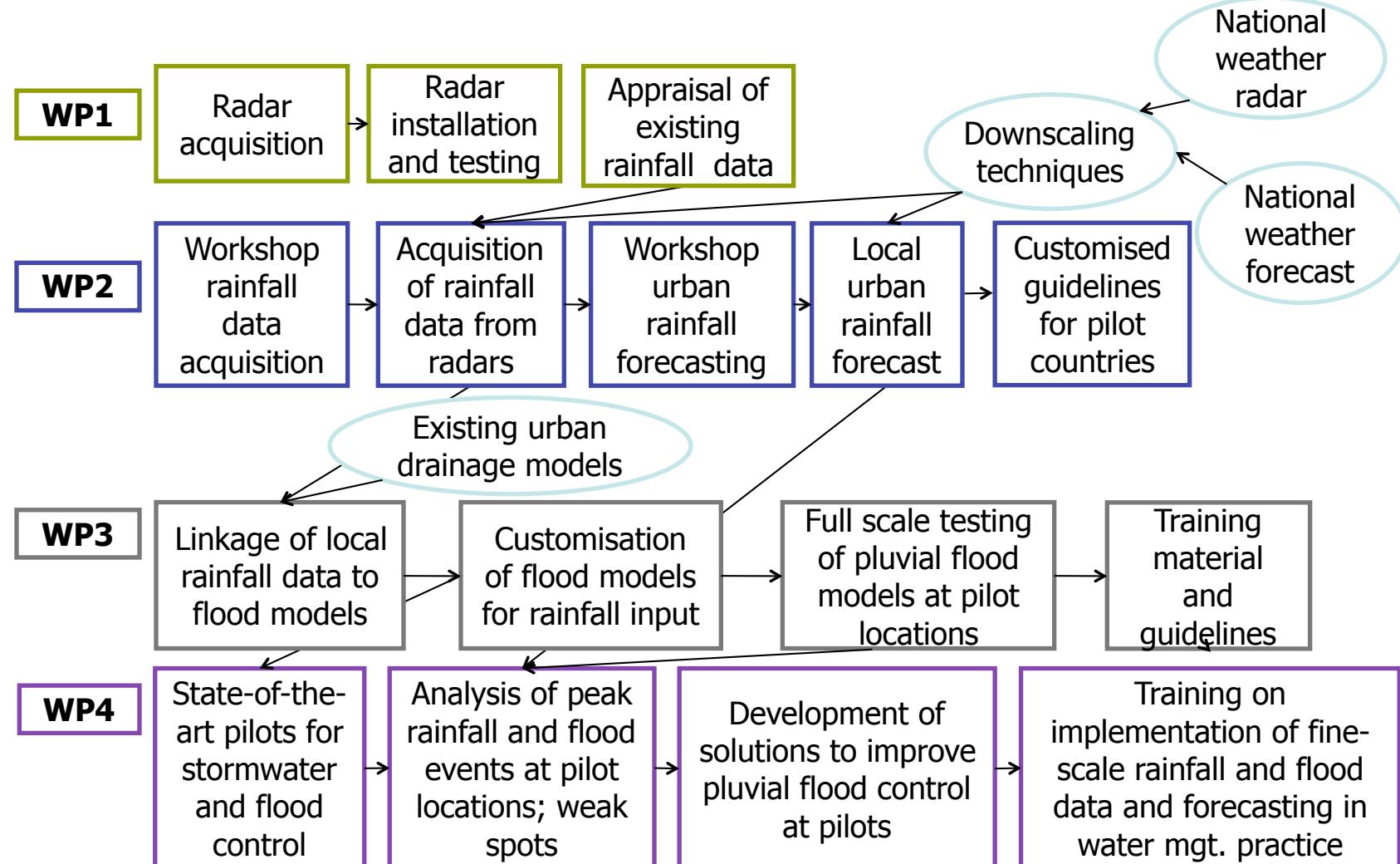
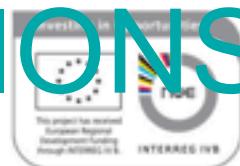
Leuven (B)

Marne-la Vallée (FR)

Croydon (UK)
Redbridge (UK)

- Knowledge exchange between partners
- Field visits pilot locations
- Workshops on development of common methods and training for practical application
- Demonstrations of tools (radar, flood model), applications (radar results, model results), solutions (early warning systems, operational control, storage basins) to other partners

RainGain WPs and ACTIONS



- WP1: Installation and testing of radars
Lead: ParisTech, Daniel Schertzer
- WP2: Fine-scale rainfall data acquisition and prediction
Lead: KU Leuven, Patrick Willems
- WP3: Urban pluvial flood modelling and prediction
Lead: Imperial College of London, Cedo Maksimovic
- WP4:
Lead: TU Delft, Marie-claire ten Veldhuis

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

Pre-Kickoff:
 29-30 Aug 2011

Large Kickoff: **Nov 2011**

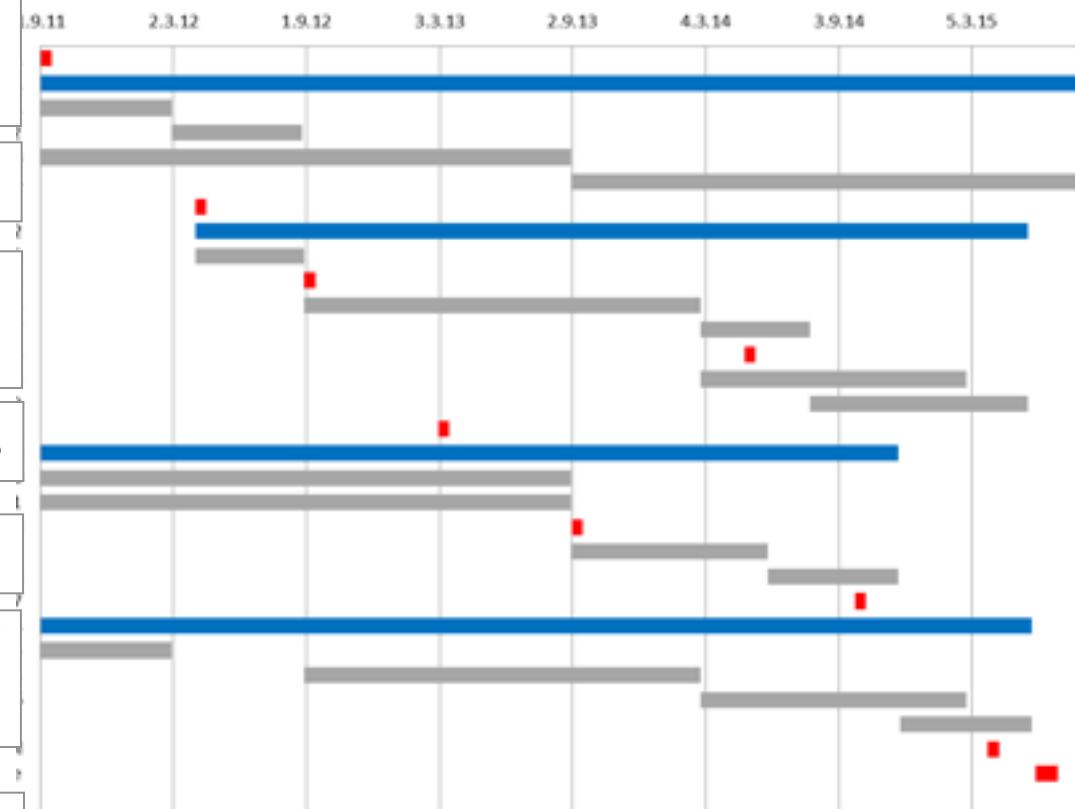
Project consortium
 meetings

Workshops for WPs

Small Technical meetings

NOG meetings: 4 per pilot/
 country

International conference



Project Management

- Project leader : TU Delft
 - Coordinator: Marie-Claire ten Veldhuis
 - Project manager: Alan Wink
 - Financial manager: Rina Edoo
 - Communication officer (*): Ecole des Ponts

(*) in kind FR contribution to the project management

AGENDA

- à Paris (Ecole des Ponts):
 - 17/09/11: réunion des partenaires français
 - 17/11/11: réunion de projet RainGain
 - 18/11/11: Journée de lancement du projet
- partenaires étrangers:
 - 17/04/12 Technical meeting WP2 (UK Leuven)
 - 08/06/12 Technical meeting WP3 (Imperial College, UK)
 - 25-26/10/12 réunion de projet RainGain (Rotterdam, NL)

RainGain WP1

WP1

A1 Radar acquisition

A2 Radar installation and testing

A3 Appraisal of existing rainfall data

A4 Future use and ownership of radar

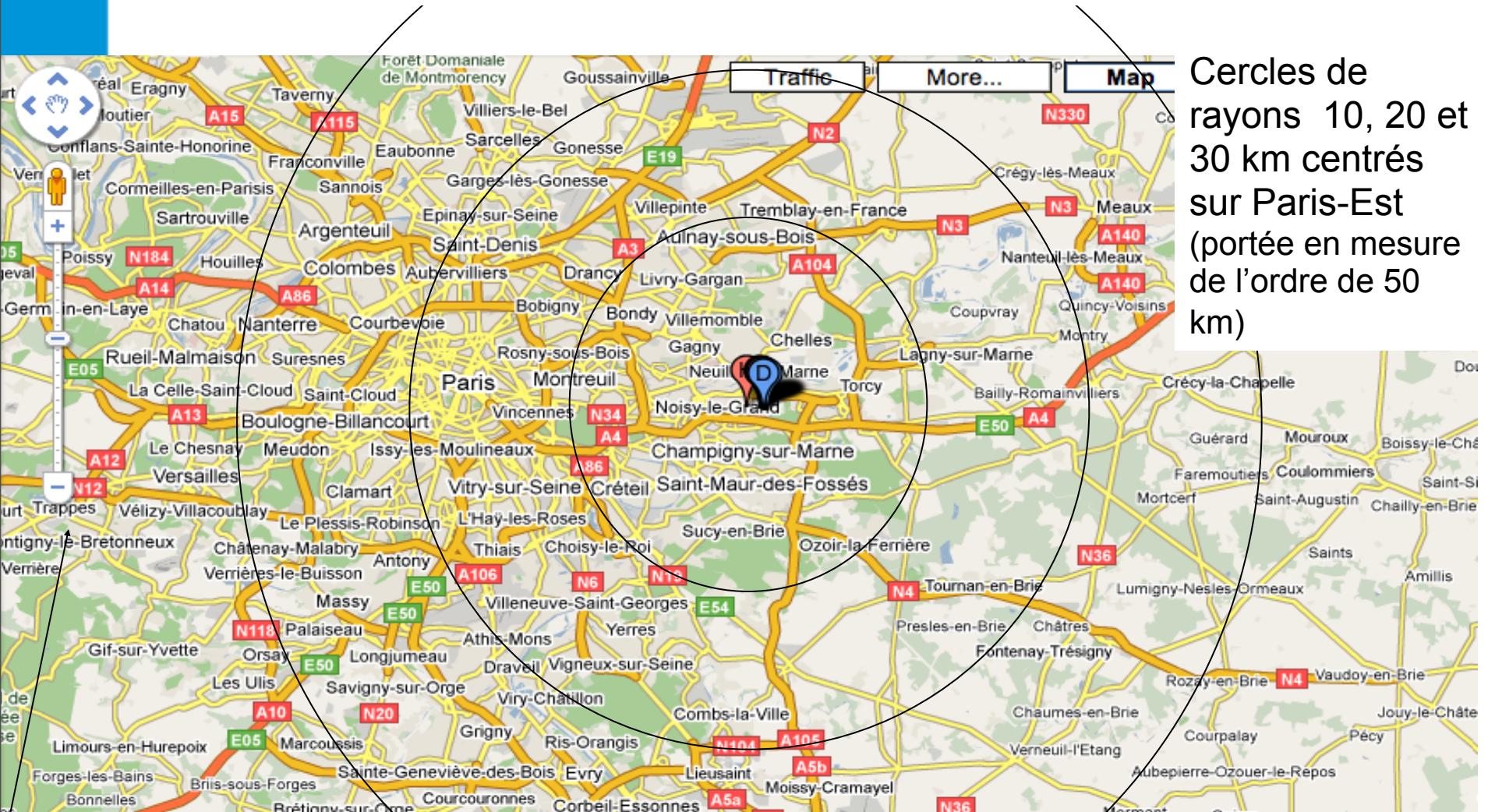
Output:
Radars
NL, F

Output:
report on testing

Output:
presentations at pilots (Nat Obs Groups)

Output:
agreement with future owner (NL)

Un radar bande X



Cercles de rayons 10, 20 et 30 km centrés sur Paris-Est (portée en mesure de l'ordre de 50 km)

Déjà un complément indispensable pour l'Est Parisien par rapport au radar classique de Trappes (nombreux masques, la hauteur de la mesure croît avec la distance)... mais avec une résolution 10 fois supérieure!

Public tender

- « European call »
- Basic technical requirements
 - $P_c \geq 50 \text{ kW (H+V)}$
 - scanning speed: 0-30°/s
 - Impulsion width: 2; 1; 0.5 μs (300, 150, 75 m)
 - ranges: measurement 0.5-60 km, detection 150 km
 - Primary date: Z_H , Z_{DR} , ρ_{HV} , V_R , σ_V , σ_Z
 - numerisation 14 bits
 - specific codes for missing data and background noise
- Complements
 - Analytical signal : heterogeneity of drops
 - refractivity on fixed echos

- Deux mots sur le projet RadX@IDF
- NB: ne pas oublier de répondre aux courriels de TU Delft: indispensable pour la bonne marche du projet...

