

Workshop Invitation 6-7 February 2017

We, the consortium partners of the WATCH project together with the Programme Executive Board of the CEDR Transnational Research Programme Call 2015, are very pleased to invite you to the two-day workshop:

Roads water management in the face of climate change state of the art on drainage design and maintenance translated to shared needs and requirements for methods and tools for the future

Background

Many challenges exist in addressing intense rainfall events into proper design and maintenance of water management systems. These challenges exist both in the field of climate science itself, as well as in the translation of climate projections into proper design and maintenance of water management systems. The WATCH project addresses the most important high frequency causes of road flooding, caused by rainfall and run-off flooding in the area around the road, and heavy rain on the road itself. Objectives of the project are:

- Developing a manual to determine current and future resilience of the NRAs approach to water management, ensuring optimal maintenance planning and asset management.
- Providing easy access to climate data tailored to determining resilience and providing guidance on how to use these data, plus developing a simple tool to show climate analogues for rainfall extremes.
- Gaining insight in the application of SuDS (Sustainable urban Drainage Systems) for storage and cleaning of excess water.
- Gaining insight in the alternatives to the costly retrofitting of existing drainage systems.
- Enabling informed decision making on water management, supported by cost-benefit analysis.

Programme

The workshop will take all objectives into account. The different topics will be introduced with presentations of the state of the art. This allows the audience to gain experience with climate change, SuDS, cost benefit analysis and the existing state of practice regarding roads water management. It also provides an opportunity to share experiences, e.g. dealing with differences and similarities between climate regions, different road owners' approaches to rainfall and climate change analysis and the availability of data and information. Subsequently user and information needs will be identified for the output of the WATCH project.

	State of Practice	Climate Services	SuDS	Cost benefit assessments
Date	SotA Afternoon 1 st day discussion end of 2 nd day	Afternoon 1 st day	Morning 2 nd day	Afternoon 2 nd day
Presentations on state of the art	Country comparison: How do European NRA's deal with water management?	Rainfall extremes, future projections and uncertainties	Use of SuDS for reducing run-off and improving run-off water quality and bio diversity	Existing methods for CBA for prioritisation of adaptation measures
		Challenges for translating climate knowledge into useful information for water management	Challenges for implementation in a multi actor stakeholder environment	State of the art in the application of CBA for support of decision making
Group discussions	Main challenges for NRA's in the light of water management and climate change	Which climate data are used now and needed for design and maintenance into the future?	Necessary information to support decision making regarding SuDS versus traditional systems	Focus of the cba: comparison of design options, need to take climate change into account and/or identifying the most valuable design requirements
	Essential elements to be covered in a manual for design and maintenance of drainage systems	What are user needs for a climate analogues tool?	Level of detail required for specifications	Data availability at NRA's and other stakeholders

Logistics

- Date and time: 2017, February 6th (starting at 12.00) through February 7th (finishing at 16.00)
 It is possible to attend only parts of the workshop
- Place: Deltares, Boussinesqweg 1, Delft, the Netherlands
- Fee: Free
- More information: Thomas Bles (Deltares, WATCH project coordinator) Thomas.Bles@deltares.nl
 Billy O' Keeffe (CEDR, Irish road authority) BOKeeffe@tii.ie
- Register: Send an email to Thomas.Bles@deltares.nl stating that you would like to register for the WATCH workshop, plus some information of your background
- Where to stay: Information will be sent after registration