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:

Risks water management in the face of climate change
state of the art on drained 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.

<table>
<thead>
<tr>
<th>Date</th>
<th>State of Practice</th>
<th>Climate Services</th>
<th>SuDS</th>
<th>Cost benefit assessments</th>
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</thead>
<tbody>
<tr>
<td>SoA Afternoon 1“day</td>
<td>Country comparison: How do European NRA’s deal with water management?</td>
<td>Afternoon 1“day</td>
<td>Morning 2“day</td>
<td>Afternoon 2“day</td>
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<td>discussion end of 2“day</td>
<td>Rainfall extremes, future projections and uncertainties</td>
<td>Use of SuDS for reducing run-off and improving run-off water quality and bio diversity</td>
<td>Challenges for implementation in a multi actor stakeholder environment</td>
<td>State of the art in the application of CBA for support of decision making</td>
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<tr>
<td>Presentations on state of the art</td>
<td>Challenges for translating climate knowledge into useful information for water management</td>
<td>Necessary information to support decision making regarding SuDS versus traditional systems</td>
<td>Focus of the cba: comparison of design options, need to take climate change into account and/or identifying the most valuable design requirements</td>
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<td>Group discussions</td>
<td>Main challenges for NRA’s in the light of water management and climate change</td>
<td>What is user needs for a climate analogues tool?</td>
<td>Essential elements to be covered in a manual for design and maintenance of drainage systems</td>
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<td>Logistics</td>
<td>Date and time: 2017, February 6th (starting at 12.00) through February 7th (finishing at 16.00)</td>
<td>Place: Deltares, Boussinesqweg 1, Delft, the Netherlands</td>
<td>Fee: Free</td>
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<tr>
<td>More information</td>
<td>Thomas Bles (Deltares, WATCH project coordinator)</td>
<td><a href="mailto:Thomas.Bles@deltares.nl">Thomas.Bles@deltares.nl</a></td>
<td><a href="mailto:BOKeeffe@tii.ie">BOKeeffe@tii.ie</a></td>
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<tr>
<td>Register</td>
<td>Send an email to <a href="mailto:Thomas.Bles@deltares.nl">Thomas.Bles@deltares.nl</a> stating that you would like to register for the WATCH workshop, plus some information of your background</td>
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<td>Where to stay</td>
<td>Information will be sent after registration</td>
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Register:

More information:

Thomas Bles (Deltares, WATCH project coordinator)  
Thomas.Bles@deltares.nl  
Billy O’ Keeffe (CEDR, Irish road authority)  
BOKeeffe@tii.ie  

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