UrbanFlood

Basic Remote Dike Monitor

Work Package 6 – D6.1

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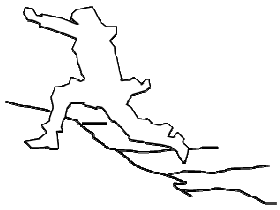
Month 6 2010

SEVENTH FRAMEWORK PROGRAMME

URBAN FLOOD



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DOCUMENT INFORMATION

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DOCUMENT HISTORY

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01-06-2010		Nico Pals	TNO	Rob Meijer	First version
01-07-2010		Erik Langius	TNO	Rob Meijer	Final version

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DISCLAIMER

1 Introduction

Deliverable 6.1 is a deliverable in the category “other”. It is a basic monitoring system for sensors in dikes. The system allows the inspection and interpretation of sensor data before the UrbanFlood Early Warning System (EWS) is functional. From a project management point of view, this allows a decoupling of the installation and the checking of the sensor infrastructure from the creation of an EWS.

This document describes the access to the monitor.

1.1 UrbanFlood

UrbanFlood is a project investigating the use of sensors within flood embankments to support an online early warning system, real time emergency management that UrbanFlood is developing. It is a project under the EU 7th framework Programme which started in December 2009 and will run for 3 years. Partners of UrbanFlood include TNO Information and Communication Technology, the University of Amsterdam and STOWA (Dutch acronym for the Foundation for Applied Water Research) from the Netherlands; HR Wallingford in the UK, ACC Cyfronet AGH in Poland and OOO Siemens in Russia

1.2 Access to Basic Remote Dike Monitor (BRDM)

The BRDM is available via the internet. It is tested with the sensor system that has been placed by the Livedijk project[1]. As soon as the first UrbanFlood test site is online the data from this dike will be made available through the BRDM.

Login procedure:

URL: http://139.63.144.162/urbanflood/
Login: guest@urbanflood.eu
Password: guest134

1.3 Functionalities

The UrbanFlood BRDM has the following functionalities:

1. Gallery: Present camera images of a test location. This functionality is not operational because no camera is installed at present

2. Log Book: Possibility to enter comments. Currently the logbook contains comments (in Dutch) about the Livedijk Eemshaven project

[1] www.livedijk.nl

3. Dashboard: This is the core functionality of the Dike Monitor. The different options are:
    - Click on the main menu item 'Dashboard' to view the defined graphs
    - **Chart Management:** Here charts can be defined. Select the sensor (or group of sensors) data is needed from. Also the time interval or starting / ending point for a chart can be selected.
    - **Group management:** Here groups of sensors can be defined in order to show them in one graph. e.g. define a group for all water pressure sensors in one cross-section
    - **Measurements last 24 hours:** Here the sensor (or group of sensors) can be selected to view the data for the last 24 hours
    - **Last measurements:** Here a sensor can be selected to view the data for the last measurement
    - **GEF download:** Here data can be downloaded in GEF format from all installed sensors for predefined periods: last hour / last day / last week / last month.
    - **CSV download:** Here data can be downloaded in CSV format from all installed sensors for predefined periods: last hour / last day / last week / last month.
    - **Download:** Here data can be downloaded in GEF or CSV format the data from all installed sensors for a self defined period.

4. Profile: Here the password can be changed (please don't)

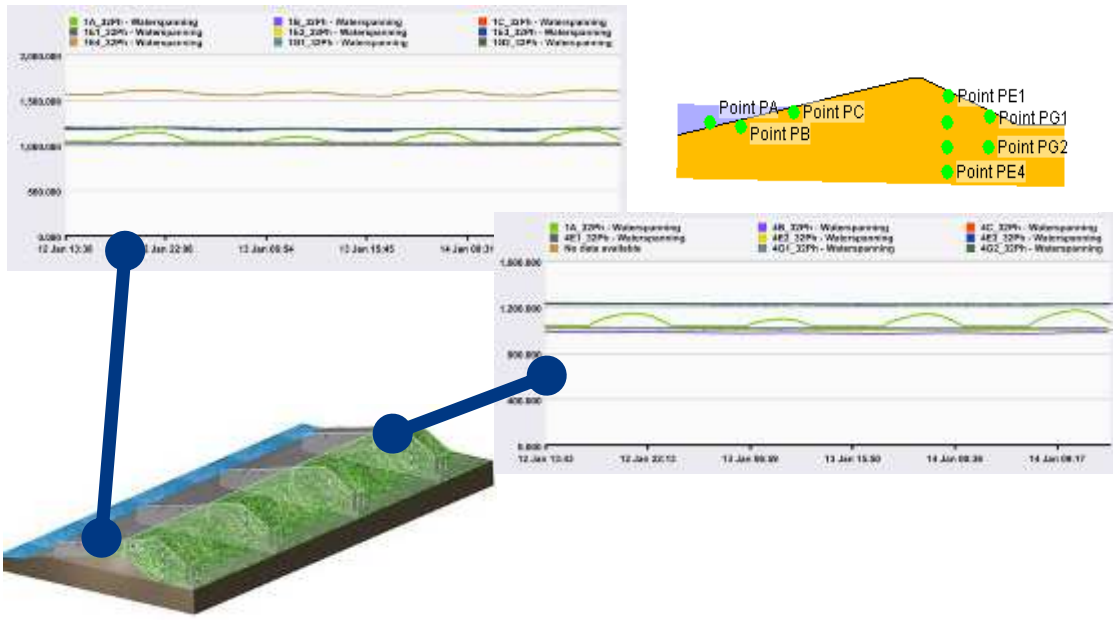

Fig. 1 Sample data from Livedijk Eemshaven

Fig. 2 Installing the sensors