

First newsletter from the SUDPLAN project

SUDPLAN has brought together IT and environmental experts who develop tools that hopefully will make life easier for the end-users in European city administrations. Here they are represented by the pilot cities Stockholm, Wuppertal, Linz and Prague.

I'm very pleased to see the good work performed by the partners and you will get a feeling of that from the different contributions of this newsletter.

[First years's work in SUDPLAN](#)

Lars Gidhagen
Co-ordinator SUDPLAN

Czech Pilot:

Is environmental quality the reason for migration outside big cities?

The objective of the SUDPLAN Czech Pilot is to check the hypothesis whether the state of the environment may influence migration of population from the Capitol City of Prague to adjacent districts in the future.

[Results from Czech Pilot](#)

Pilot Wuppertal:

Modelling run-off during heavy stormwater events

The City of Wuppertal has decided to use the software GeoCPM as the model component for the SUDPLAN Wuppertal pilot. In parallel to this decision the modelling of the surface run-off during heavy stormwater events has been introduced into the continual planning process of Wuppertal's sewer system "General Drainage Strategy".

[Results from Pilot Wuppertal](#)

Linz Pilot:

Combined sewer overflows

Climate changes will have crucial impacts to the aquatic environment. The Linz pilot focuses on the problem of combined sewer overflows (CSO) into receiving waters.

[Results from Linz Pilot](#)

Downscaling air quality

Climate change is together with emission changes expected to result in changed air quality across Europe. In most cases is emission changes most important but for some species can climate change be as important for the future air quality in a city. To accurately describe the future air quality in European cities we will build a system where it will be possible to nest pan-European models and local urban-scale air quality models.

[Air quality - downscaling](#)

Downscaling service - short term rainfall

In SUDPLAN, an automated downscaling service has been developed which allows a user to upload a historical short-term rainfall time series and have it modified in line with the expected future changes in that particular location. This data may be used in hydrologic and hydraulic models to assess performance of existing or planned structures also in a changed climate.

[Short term rainfall - downscaling](#)

Conference session

A special conference session named "Climate Services and ICT tools for Environmental Urban Planning" will take place within the ISESS 2011 conference, Brno, Czech Republic 27-29 June, 2011.

[Webbpage of ISESS 2011](#)

Contact:

Lars Gidhagen, Ph D, Swedish Meteorological and Hydrological Institute, SE-601 76 Norrköping, SWEDEN

Telephone: +46 (0)11 495 8531

E-mail: lars.gidhagen@smhi.se

www.sudplan.eu

SMHI

AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY

cismet
cismet GmbH | www.cismet.de | info@cismet.de | Fon+Fax 0700 cismet.de

cenia

**TU
Graz**

Wuppertal

DFK
Deutsches
Forschungszentrum
für Künstliche
Intelligenz GmbH

LF STOCKHOLMS OCH UPSALA
LÄNS LUFTVÄRDSFÖRBUND

APERTUM