

Research & Development

Knowledge transfer between research and development



Since the itwh GmbH was founded, strong efforts were made to interlink research and application of state of the art engineering. The cooperation with several universities enables us to accumulate an extensive knowledge, which is put into further development of our know-how and our software products. Further the knowledge allows us to provide innovative solutions in engineering projects. The following is a brief overview of research projects, which we were involved as applicants or collaborative partner.

REGKLAM – regional climate change adaption program – model region Dresden

In cooperation with:

- Leibniz Institut für ökologische Raumentwicklung e. V.
- TU Dresden
- TU Bergakademie Freiberg
- Leibniz Institut für Troposphärenforschung e. V.
- Dresdner Grundwasserforschungszentrum (DGFZ e. V.)
- Stadtentwässerung Dresden GmbH
- Deutsches Zentrum für Luft- und Raumfahrt (DLR e. V.)
- Stadt Dresden.

SYNOPSIS – generation of synthetic precipitation time series for ideal planning and operation of urban drainage systems

In cooperation with:

- Leibniz Universität Hannover
- Universität Stuttgart
- Universität Augsburg



- Hamburger Stadtentwässerung
- Stadtentwässerung Braunschweig GmbH
- Stadtentwässerung Freiburg
- Dr.-Ing. Pecher und Partner Ingenieurgesellschaft mbH

EVUS – real-time prediction of pluvial floods and inducted water contamination in urban areas

Gefördert vom Bundesministerium für Bildung und Forschung (BMBF) In Zusammenarbeit mit:

- Leibniz Universität Hannover
- Leibniz Institut für Wasserwirtschaft, Hydrologie und landwirtschaftlichen Wasserbau
- Leibniz Institut für Strömungsmechanik und Umweltphysik im Bauwesen
- Leibniz Institut für Kartographie und Geoinformatik
- Helmholtz-Zentrum Potsdam GeoForschungszentrum (gfz)
- Stadtentwässerung Hannover
- IP SYSCON GmbH

IRTC

Development of an integrated control and operation procure of sewer system and WWTP for a significant reduction of water pollution

In cooperation with:

- Institut für Siedlungs- und Industrierwasserwirtschaft TU Dresden.

IWAS – international research alliance saxony

In cooperation with:

- TU Dresden
- Stadtentwässerung Dresden GmbH

Development of a sustainable water resources management in the city of Hanoi/Vietnam and setting up workshops on topics concerning water management.

In cooperation with:

- TU Dresden
- Helmholtz- Zentrum für Umweltforschung GmbH
- Stadtentwässerung Dresden GmbH



References

Flooding Dresden
Development of an integrated RTC system