

Integration and transfer

The research projects of the BMBF funding measure INIS are accompanied by an integration and transfer project (INISnet). Its principle tasks involve publicity activities for the funding measure, strengthening dialog and cooperation between the research projects, e.g. through moderation of academic discussions on cross-cutting topics, and facilitating the synthesis and transfer of results into research and practice. INISnet is being carried out jointly by the German Institute of Urban Affairs (Difu), the Research Centre of the German Technical and Scientific Association for Gas and Water (DVGW) at the Hamburg University of Technology, and the German Association for Water, Wastewater and Waste e.V. (DWA).

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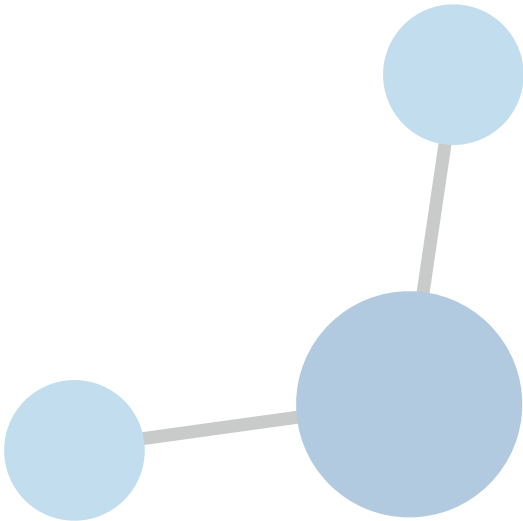
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Smart and Multifunctional Infrastructural Systems for Sustainable Water Supply, Sanitation and Stormwater Management



A funding measure of the German Federal Ministry of Education and Research

Urban water infrastructures in Germany are facing considerable challenges, not least as a result of the effects of climate change, demographic change and ever scarcer resources. In order to adapt to the changing conditions, innovative, flexible and feasible solutions are needed to secure drinking water supply, sanitation and stormwater management for the future.

In this context the German Federal Ministry of Education and Research (BMBF) is funding research projects with a total of €33 million Euro under the funding measure “Smart and Multifunctional Infrastructural Systems for Sustainable Water Supply, Sanitation and Stormwater Management” (INIS). This is in turn part of the funding priority “Sustainable Water Management” (NaWaM), an important component of the BMBF Framework Programme “Research for Sustainable Development” (FONA).

Between 2013 and 2016, thirteen joint projects will carry out research on integrated urban planning and infrastructure concepts, innovative technologies and novel management instruments and thus contribute to the development of sustainable water infrastructures. Characteristic for the integrated projects is the participation of local practitioners and administrators in various model areas, covering many different types of regions in Germany. The model character of the research projects and the application of results in municipalities and regions with a wide range of local conditions will support and enhance the transferability of the results.

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Joint research projects of the BMBF funding measure INIS

EDIT – Development and implementation of a concentration and detection system for the inline monitoring of water-borne pathogens in raw and drinking water
Dr. Daniel Karthe, Centre for Environmental Research (UFZ), Magdeburg
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KREIS – From disposal to supply: Linking renewable energy production with innovative urban wastewater drainage
Prof. Dr. Jörg Londong, Bauhaus-Univ. Weimar
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KURAS – Concepts for urban rainwater management, drainage and sewage systems
Prof. Dr. Paul Uwe Thamsen, TU Berlin
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NaCoSi – Sustainability controlling for urban water systems – risk profiles and control instruments
Prof. Dr. Wilhelm Urban, TU Darmstadt
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NAWAK – Development of sustainable adaptation strategies for water management under conditions of climatic and demographic change
Dr. Jens Wolf, Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH, Braunschweig
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netWORKS 3 – Intelligent integrated water management solutions in Frankfurt am Main and Hamburg
Dr. Jörg Felmeden, ISOE Institute for Social-Ecological Research, Frankfurt am Main
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nidA200 – Innovative wastewater treatment: Sustainable, innovative and decentralized wastewater treatment systems, including co-treatment of organic waste based on alternative sanitary concepts
Dr. Niels Christian Holm, LimnoTec Abwasseranlagen GmbH, Lübbecke
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NoNitriNox – Planning and operation of resource and energy-efficient sewage treatment facilities with simultaneous reduction of environmentally hazardous emissions
Dr. Jens Alex, ifak – Institut für Automation und Kommunikation e.V., Magdeburg
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ROOF-WATER FARM – Cross-sectoral use of water resources for building-integrated farming
Prof. Dr. Angela Uttke, TU Berlin
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SAMUWA – The city – a hydrological system in change: Steps towards an adaptive management of the urban water balance
Dr. Birgit Schlichtig, Univ. Stuttgart
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SinOptiKom – Cross-sectoral optimization of transformation processes in municipal infrastructures in rural areas
Prof. Dr. Theo G. Schmitt, TU Kaiserslautern
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SYNOPSE – Synthetic precipitation time series for the optimal planning and operation of urban drainage systems
Prof. Dr. Uwe Haberlandt, Leibniz Univ. Hannover
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TWIST++ – Paths of transition for water infrastructure systems: Adapting to new challenges in urban and rural areas
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