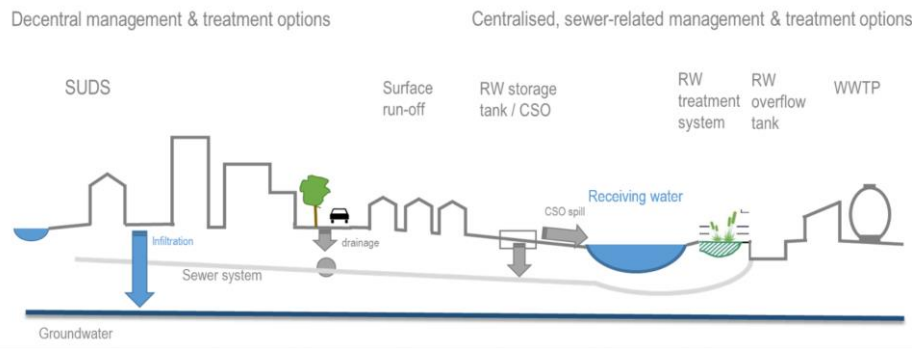


## PROJECT PROFILE

Title	Protecting the aquatic environment from urban runoff pollution (StopUP)
Project leader	Univ.-Prof. Dr.-Ing. T. Wintgens
Responsible project processor	Dr.-Ing. Simone Lechthaler Mail: lechthaler@isa.rwth-aachen.de FON: +49 (0)241 80 25841
Project partners	<p><i>Universitys:</i> Norges Teknisk-Naturvitenskapelige Universitet NTNU Alma Mater Studiorum – Universita di Bologna Institut superieur des sciences biologiques appliquees de Tunis Fachhochschule Nordwestschweiz</p> <p><i>SME:</i> atd Ingenieurgesellschaft für Abwasserwirtschaft und technische Dienstleistungen mbH Fluves Aqua Aurora bv</p> <p><i>Consultation:</i> HR Wallingford Limited</p> <p><i>Industry:</i> TAUW bv</p> <p><i>Water supplier:</i> Aquafin NV</p>
Funding body	European Union
Duration	01.09.2022 – 31.08.2025
<p>In urban areas, a wide variety of pollutants is generated through anthropogenic activities and contaminates municipal and industrial wastewater as well as urban surface runoff during rain events. Since wastewater treatment plants do not have the capacity to treat the occurring wastewater especially during strong storm events, combined sewer overflow releases the untreated wastewater directly into the aquatic environment. In case of a separated sewer system, the collected rainwater is also introduced directly into the nearest water body and poses a further pollutant source for the aquatic environment.</p>	

## PROJECT PROFILE

The project StopUP deals with the characterization of urban runoff pollution to adequately adapt technical solutions for pollutant retention in order to protect the aquatic environment. Such solutions need to consider case-specific contexts including geography, climate, land use and receiving waters. StopUP aims to fill this need and proposes to provide new methods, information, tools and guidance on how to more effectively limit the impact of urban diffuse pollution.



In addition to the coordination of the overall project, ISA develops a process to reduce the needed area of retention soil filters (RSF) so that they can be integrated in urban areas with space limitations. First, lab experiments are conducted to find out optimal hydraulic conditions. Subsequently, a RSF pilot plant connected to the rain overflow basin will be developed and operated. An additional monitoring of the brand new full-scale RSF at the wastewater treatment plant Aachen-Soers (filter area of about 14600 m<sup>2</sup>) shall investigate the reduction of pollutant emission into the sensible river "Wurm".

In total, 11 partners (9 beneficiaries, 2 associates) from 8 countries (Germany, Belgium, Netherlands, Norway, Italy, Switzerland, Great Britain, Tunisia) participate within the research project. The European Union is funding StopUP for 3 years as part of the research and innovation program Horizon Europe with 3,7 million euros.

For more information, visit <https://stopup.eu/>.