

# Foundation CSDI WaterTech



## ABOUT CSDI WaterTech

CSDI WaterTech established in 2015 in Oslo, Norway, running as a Centre for Sustainable Development and Innovation of Water Technology. It is a R&D Foundation based in Norway.

CSDI aims to contribute to sustainable and innovative development and dissemination of technologies in the areas of Water, Environment and Renewable energy and new materials. Further, CSDI WaterTech makes efforts to promote research collaboration, technology transformation, training, education and network activities between Norway and EU with China within our focal areas.

## MAIN AREAS

- Urban water management
- Hydrological and hydraulic modelling, flood risk management
- Sustainable urban drainage systems, and LID solution
- Water pollution control & pollution mitigation
- Rehabilitation and repairing hydraulic concrete structures
- Sustainable hydropower and renewable energies

## MAIN ACTIVITIES

- Lead or participate in R&D projects
- Promote tech. dissemination and develop pilot projects
- Organise training courses
- Provide consulting services within our expertise areas
- Build research, technical and business partnerships in Norway and EU with China.

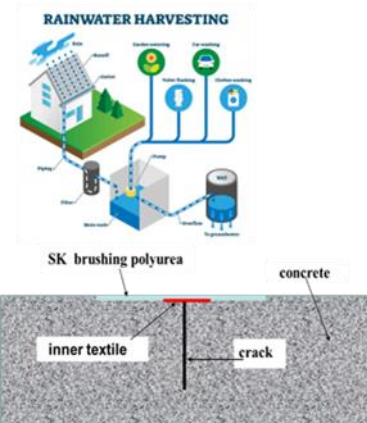
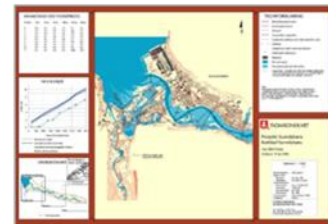
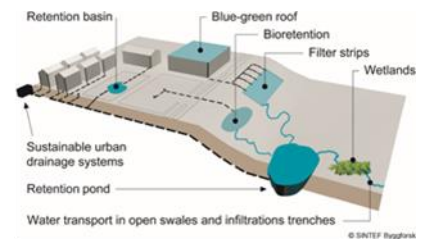


图 裂缝涂刷SK手刮聚脲的示意图

## CONTACT US

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# PROJECTS & TECHNOLOGIES

## 1. H2020 project [Waste2Fresh](#) (01.12.2020-30.11.2023)

**Waste2Fresh is an EU H2020 funded project that is bringing an innovative solution to the textile manufacturing industry to address freshwater resource scarcity and industrial water pollution, into the market.**

The Waste2Fresh project, is committed to ensure the successful development, demonstration and commercialisation of a closed-loop wastewater recycling system for the textile manufacturing industry.

**The Challenge**  
 Vast amounts of water is continuously used in the textile industry. The water is used to, process, wash, dye, heat and cool textile materials, which then pollutes rivers and oceans with wastewater, which contains a range of chemicals and dyes.

**The Solution**  
 One solution is a closed-loop process in which wastewater is collected, recycled and used again. With this in mind, the EU-funded Waste2Fresh project will develop a closed-loop process for textile manufacturing factories.

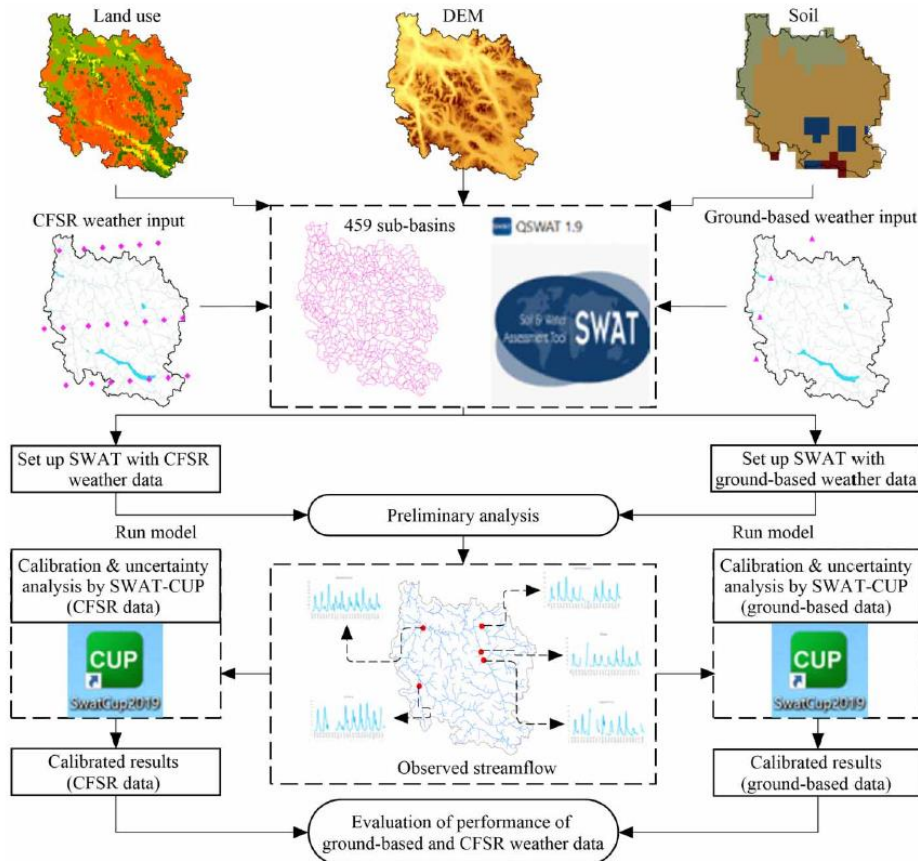
**The Commitment**  
 Waste2Fresh will integrate novel and innovative catalytic degradation approaches with highly selective separation and extraction techniques. The aim is near-zero discharge and a reduction of current use of freshwater resources. The project expects this system to result in significant environmental gains.  
 Waste2Fresh will considerably increase the recovery of water, energy, and other resources (organics, salts, and heavy metals) resulting in high efficiency, which in turn will return substantial environmental gains weighted against EU and global environmental footprints.

If you are interested to know more about the Waste2Fresh project, please contact us. Over the next 2 years we will provide you with Waste2Fresh materials, which will bring you more information about our project, our partners, webinars, publications, event participation and all the news of this exciting project.

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## 2. Hydrological modelling and assessment of climate change impacts on an Arctic watershed in Norway; CSDI in collaboration with UiT-The Arctic University of Norway.



A schematic approach of hydrological modelling in the Arctic region in Norway (Bui, Lu & Nie, 2021)