

SafeCREW

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Italy

 **Kompetenzzentrum Wasser Berlin**
Germany

 **BioDetection Systems B. V.**
The Netherlands

 **EURECAT**
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 **Umweltbundesamt**
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 **Helmholtz Zentrum für Umweltforschung**
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CLIMATE-RESILIENT
MANAGEMENT FOR SAFE
DISINFECTED AND NON-
DISINFECTED WATER
SUPPLY SYSTEMS



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CLIMATE-RESILIENT MANAGEMENT FOR SAFE DISINFECTED AND NON-DISINFECTED WATER SUPPLY SYSTEMS

The safe and affordable supply of drinking water in the EU under the pressure of climate change is a key priority. Despite long-term experience with the reliable operation of disinfected and non-disinfected drinking water supply systems (DWSS), climate change impacts such as increasing water temperature and higher levels of natural organic matter (NOM), will lead to challenges. These are linked to microbial stability and the (future) need for disinfection; and the consequences of disinfection by-product (DBP) formation for human health remain open.

SafeCREW aims to support the novel EU Drinking Water Directive (DWD) by developing tools and guidelines for disinfected and non-disinfected drinking water supply systems.

Four case studies, located in northern Germany, Italy, Spain and the Ukraine, will create novel data sets on the occurrence and concentration of as yet unknown disinfection by-products, as well as comprehensive water quality characterisation, including chemical and microbiological parameters. These data, together with newly developed treatment solutions, will lead to better management of water distribution networks to maintain high drinking water quality. Commercial actors will be stimulated to further develop tools for disinfection by-product quantification and mitigation. This will include all processes from source via treatment to distribution.

SafeCREW will increase the preparedness of the EU water sector for challenges arising from climate change and will support the EU's leading position in science-based policymaking for drinking water consumer protection.

