

## SARA – Surveillance of Emerging Pathogens and Antibiotic Resistances in Aquatic Ecosystems

### Summary

SARA is an international research project about microbial water quality in aquatic ecosystems with partners in Sweden, Germany, France, Spain, Portugal, Israel, Uganda and Mozambique. Appropriate methods for wastewater-based epidemiology and a better understanding of the fate of pathogenic viruses and antibiotic-resistant bacteria from the sources to river basins and estuaries are urgently required. The project will determine the prevalence of pathogenic viruses, microbial indicators, antibiotic resistance, and microbial source tracking markers in wastewater, surface water, coastal sea waters, sediment and bivalve molluscan shellfish in catchments located in different climate areas.

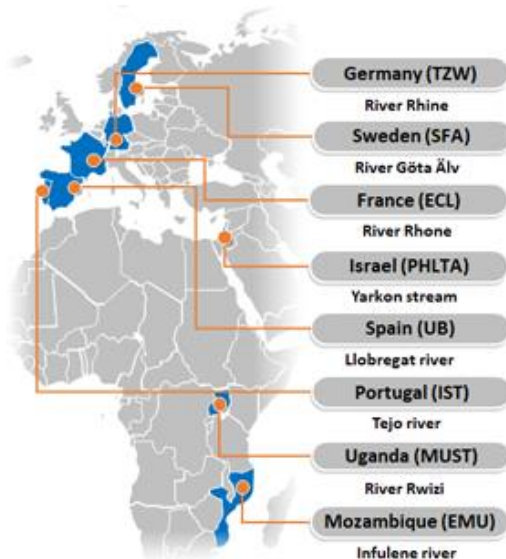


Figure 1. SARA study Locations and partners.

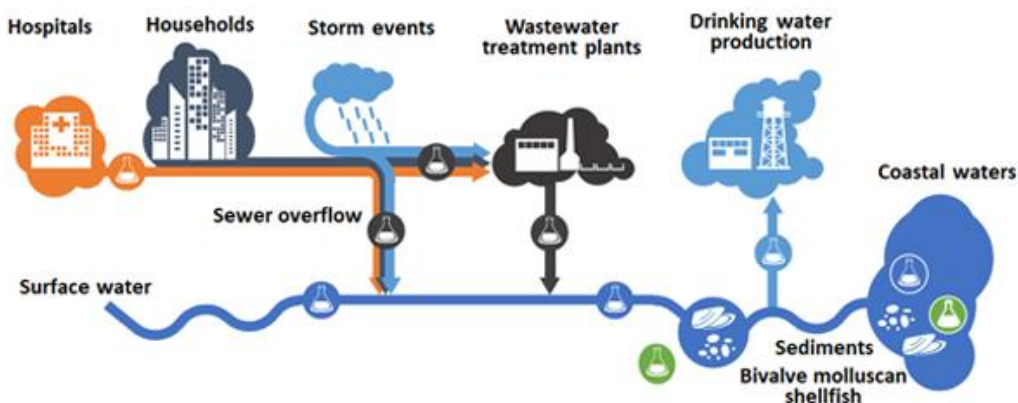


Figure 2. Diagram of the main pollution sources under study in the SARA project.



### Project Reference

Joint Transnational call 2020, Aquatic Pollutants (ID: 280)

### Leading Institution

TZW – DVGW-Technologiezentrum Wasser (Germany)

### Partners

Swedish Food Agency (Sweden), Ecole Centrale de Lyon (France), Israel Ministry of Health (Israel, IST – Instituto Superior Técnico (Portugal), Mbarara University of Science and Technology (Uganda), Eduardo Mondlane University (Mozambique), Universitat de Barcelona (Spain)

### CERIS Principal Investigator

Ricardo Santos  
([ricardosantos@tecnico.ulisboa.pt](mailto:ricardosantos@tecnico.ulisboa.pt))

### CERIS Research Team

Filipa Ferreira, Sílvia Monteiro

### Funding

Joint Programming Initiative on "Water challenges for a changing world"

### Period

2021-2024

### Total

2 310 730.00€

### CERIS

86 000.00€

### Project Website

<https://www.sara-project.info/>