

# Catchment Risk Assessment



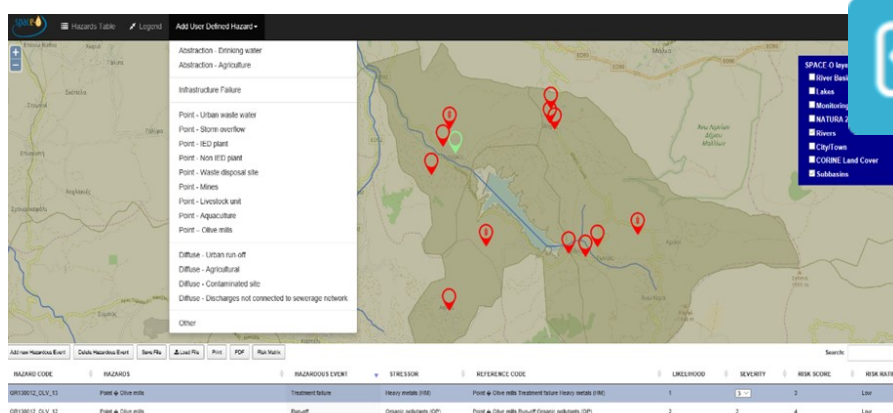
The Catchment Risk Assessment component of the Space-O Portal provides a method for water managers to identify hazards within the upstream catchment area, including pressures from industry, changing land use and climate, and assess the level of risk to their water systems.

## Applications

- Allows user inputs to identify and display individual hazards to upstream water resources, ranks the risks of hazards in a matrix.
- Collates and displays multiple layers of geographical information using site-specific (open) data sets, covering pressures from industry, changing land use and climatic risk (Copernicus services).
- Integrates monitoring data (photos, testimonies, etc.) provided by consumers, citizens, community groups and NGOs.

## Benefits

- Visual analysis of hazards to water systems within a risk matrix helps managers to assess and communicate these risks.
- Tailored definition of specific hazards taking advantage of local experience and knowledge.
- Actively applies Citizen Science by integrating hazards identified by citizens into catchment risk assessments.
- Extends the information database available to water utility operators and managers to the upstream.



## Product Overview

Managing water resources across a catchment needs to take into account the water requirements and impacts from wide range of activities, actors and events. The Catchment Risk Assessment tool can be used to combine information from different sources, which provides context to the hazards and associated risks to water systems. The tool provides a method to collect, manage and assess baseline information at a catchment level to aid future decision-making, by developing a detailed inventory of potential hazards, hazardous events and the stressors within a catchment area. Key stakeholders with an interest in catchment management are assisted in identifying hazards and prioritise actions to best mitigate water quality risks, identify opportunities to work with managers of high-risk activities to proactively address these risks and provide input to risk management framework and water quality improvement strategies.

Space Assisted Water Quality  
Forecasting Platform for  
Optimized Decision Making in  
Water Supply Services



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The SPACE-O Consortium



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