

Objectives



Define the quality requirements and attenuation factors of reclaimed water for direct and indirect potable use.



Expand and enhance the decision support system (DSS) developed in the SUGGEREIX project.



Validate the improved tool in new case studies (direct potable reuse pilot at the Gavà-Viladecans WWTP).



Promote the transfer of the tool and its application in the design of new advanced treatment trains and in the assessment of existing ones.

Expected Results

- **Generate new knowledge** and tools to plan, manage, and oversee direct and indirect potable reuse schemes.
- **Demonstrate the safety and quality of reclaimed water** for the intended uses.
- **Raise awareness about the use of reclaimed water** as a new strategic resource.

Antecedents

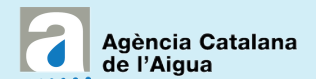
Catalonia has experienced a significant reduction in available water resources. Water reuse is becoming increasingly important as a key tool to ensure the territory's water sustainability and resilience. In this context, direct and indirect potable reuse has been prioritized in the new strategic lines of the Catalan Water Agency (PGDCFC 2022–2027 and Strategy 2040). DECIDEIX continues the work initiated under the SUGGEREIX project, addressing remaining challenges related to safety, regulation, and public awareness.



Project Partners

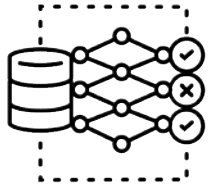


With funding from the Catalan Water Agency



Methodology

Update of the Decision Support System (DSS)

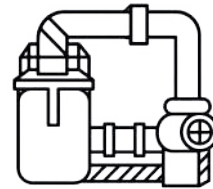


Update with:

- New compounds
- Updated regulations
- New protective values based on risk methodology
- Treatment and technology efficiency data

DSS + Guide = Updated Web Tool

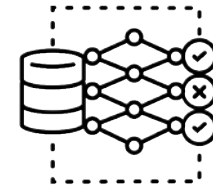
Validation of the Decision Support System in the pilot



Direct potable reuse pilot installed at the Gavà-Viladecans WWTP

DSS + Guide = Updated Web Tool with real operational data from the pilot

DSS - Decideix



Sessions for results transfer and implementation in other WWTPs

**Implementation and transfer of results
Use of the DSS for planning new WRRFs**