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INN WATER

Promoting social innovation to renew
multi-level and cross sector water governance

February 2026

Result Factsheet

INN WATER AI ASSISTANT

RESULT Type:
ICT software digital solution

[Link to the IA Assistant](#)



Owner:

eurecat
Centre Tecnològic de Catalunya

Contributors:



WAREG
European Water Regulators



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Description

The AI Assistant is an essential element of the InnWater Governance Platform, designed to support users continuously while they navigate the system. Its purpose is to help users understand how the platform and its tools work, prevent misunderstandings, and provide access to project information without requiring them to download documents. Within the platform, the assistant appears in two ways: through reactive guidance while users interact with the tools, and through a dedicated chat section where users can ask questions and receive answers directly linked to the project's documentation.

Technically, the assistant is built on Large Language Models (LLMs) combined with a Retrieval-Augmented Generation (RAG) architecture. LLMs generate responses using context provided by the system, while the retrieval mechanism extracts relevant passages from a structured database that includes InnWater deliverables, policy briefs, pilot-site materials, and other predefined documents. Only open-source and free LLMs from reputable providers are used, and the choice of model is based on accuracy tests using a specially prepared golden dataset.

The system is organised into five modules:

- Interface Module, which connects the user interface with the AI backend;
- Query Treatment Module, which analyses, reformulates, and directs queries to the appropriate process;
- Retrieval Module, responsible for indexing, searching, and post-processing the project documents;
- Large Language Model, which generates responses based on retrieved data;
- Query-Answer Logger, which records interactions to support system optimisation.

This modular architecture ensures scalability, maintenance efficiency, and clear separation of functions, enabling the assistant to deliver reliable, context-aware answers and to support the platform's e-learning dimension.

TARGET AUDIENCES

For EU and Member State Policy-makers

To **raise awareness** and support the design of coherent water and WEFE nexus strategies and to enable basin and local water authorities to assess governance gaps and tariff scenarios based on clear AI-supported insights.

Others / Civil society and stakeholders

To **share knowledge** and improve transparency, helping non-expert actors understand water governance challenges through accessible AI-generated explanations.

For Research and Technology Organisations / Academia

To **provide researchers** and data scientists with technical expertise and collaboration opportunities to integrate AI-driven governance approaches and reuse InnWater knowledge.

We specially need

We are looking for feedback from different actors from many different real governance contexts to improve and refine the responses and recommendations of the assistant.

SDG's



Unique value proposition

The AI assistant module combines economic and governance models with AI to generate explainable policy recommendations.

The AI assistant is fine-tuned to enhance retrieval precision and improve discrimination between domain-relevant and irrelevant knowledge.

Use beyond the project life

The recommendations of AI assistant can be continuously updated with new datasets, models, and policy inputs, supporting European and regional water authorities.

The AI assistant can be expanded to ingest knowledge from additional Horizon Europe and national research projects, thereby strengthening cross-project interoperability and improving the consistency of water-governance insights across Europe.

Key benefits



Converts model results into strategies and recommendations



Supports decision-making

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Economic Decision Tools • AI Assistant • Project Resources • Learn About

Question 2

Please map all river basin organisations (RBO) in your country according to the criteria below:

RBO 1	Level	Role	Functions
Name	Provincial	Decision-making	Monitoring
Add information		Add information	

Adequate staffing: Yes No I don't know

Adequate budget: Yes No I don't know

Question 3

If appropriate, please provide information on how River Basin Organisations are financed:

Financing mechanisms

Water charges in river basins: Yes No I don't know

Grants from national/federal government: Yes No I don't know

Grants from regional/provincial governments: Yes No I don't know

Other 3 (please specify):

Assistant

15/01/2024

Are there laws, either at national/federal levels, regarding water resource management and water and wastewater service provision in Figueras?

InnWater Assistant

Yes, in Figueras, as in other regions of Spain, water resource management and water and wastewater service provision are governed by a combination of national, regional, and local laws. At the national level, Spain is guided by various legal frameworks that aim to regulate water management in accordance with the European Union directives, such as the Water Framework Directive (WFD). The WFD establishes a foundational structure for water resource management, emphasising sustainability and the need for integrated river basin management plans.

In addition to national laws, the Government of Catalonia, where Figueras is located, has its own regional legislation regarding water management. The Catalan Water Law (Ley de Aguas de Cataluña) specifically addresses aspects related to the management, conservation, and sustainable use of water resources. This law is aligned with the overarching principles of EU directives while also catering to the specific water challenges faced by the region.

Furthermore, local municipalities, such as Figueras, implement these regulations through their municipal policies and plans, which take into account local conditions, economic activities, and water demands. These policies can include measures for wastewater treatment, stormwater management, and the protection of water quality.

To gather more detailed information on the specific laws applicable in Figueras regarding water resource management and wastewater service provision, consulting regional and municipal regulations alongside relevant EU directives would be beneficial.

Check the documents retrieved to gather more information about it. Can I help you with another issue?

See documents retrieved

Impacts

Scientific: Improves understanding and use of InnWater’s scientific outputs by providing clear, traceable explanations and supporting consistent interpretation of governance assessments, modelling results and pilot-site data.

Economic: Simplifies access to complex tools, reducing analysis and learning costs for stakeholders. Its open-source, modular design supports cost-effective reuse and future scaling.

Societal: Strengthens institutional and stakeholder capacity by translating technical content into accessible insights, fostering broader engagement and more informed participation across WEFE sectors.

Environmental: Indirectly supports better environmental decisions by improving understanding of governance and modelling information, contributing to more sustainable and resilient water management.

Replicability

Fully replicable for other river basins and governance contexts. The modular architecture allows integration with local data sources, ensuring transferability to other EU and non-EU regions.

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