

Water Risk Assessment Project (WRAP)

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**Water & Land Expert Team
IMPEL Open Day - 29 January 2025**



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Why this project is needed



In new EU legislation for the protection of water and water resources: **Common trend on the use of risk assessment approaches** to address, minimize and mitigate risks for environment and human/public health.

Practitioners from Member States need to deepen their knowledge on assessment of pollution at catchment level

Combined Approach: to link WFD, New UWWTD, and IED for integrated water management, reducing industrial and agricultural pressures on water bodies and promoting water reuse

Drinking water: to link actions carried out under WFD and the impact of climate change with impacts on water bodies intended for drinking water supply

Circular Economy: to support the transition to water reuse systems, advancing European Green Deal goals, including the Zero Pollution Action Plan, carbon neutrality, and climate change mitigation.

Environmental Damage: to propose common metrics to assess water damage under the Environmental Crime Directive (ECD) and Environmental Liability Directive (ELD), defining substantial damage and distinguishing administrative infringements from criminal offenses.

Main activities over 3 years

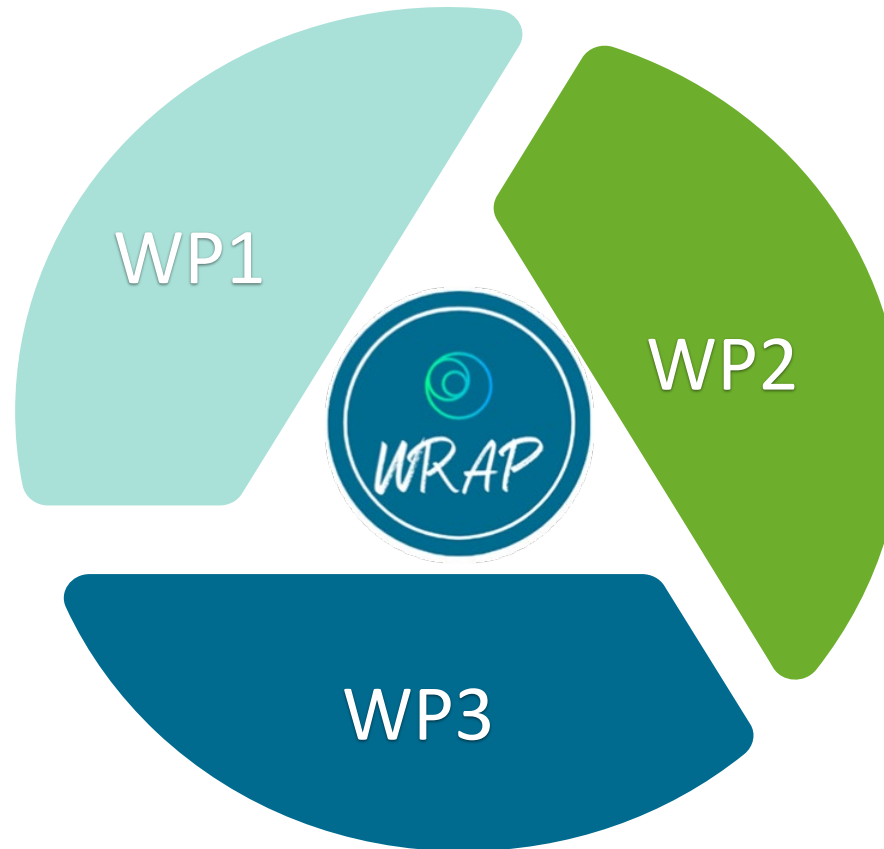


Work Package 1 – Wastewater in Natural Environment (WiNE) – Phase 4

- Identification of best practices for risk assessment in water reuse schemes under Regulation (EU) 2020/741
- Implementation of legal requirement and/or promotion of different reuse practices using the Water Circularity Index*

Work Package 3 – Water Damage Key Assessment (WDKA)

- Share the innovative methodology and tool to measure the damage to water developed in Portugal in other countries.



Work Package 2 – Catchment Areas and Risk Assessment (CARA)

Deepen the knowledge on assessment of pollution in:

- Areas of accumulation of micropollutants (wastewater discharges)
- Catchment areas for abstraction points of water intended for human consumption or irrigation

* The Water Circularity Index (I_c) was developed to endorse the transition to the circular economy, is a tool to measure the circularity of a certain process or installation

Water Risk Assessment Project (WRAP)



3 site-visits (WP1, WP2, WP3)

Final conference & Dissemination

Final Products

- **Guidance Documents**
- **Tools (possible use of AI)**

To facilitate the transfer of knowledge from IMPEL's experts, the tool will be developed to be used directly under the IMPEL Knowledge and Information Programme (KIP).

To build on the experience of other projects (CAED, Environmental crimes, W&L Conference, Supporting IED Implementation, Waste Management and Circular Economy, GIEDA) for sharing best practices and find ways to collect inputs for the risk assessment procedures

2026

2025

2027

3 site-visits (WP1, WP2, WP3)

Use of knowledge and products from prior phases (Integrated water approach & WiNE projects)



LOOK HERE

Main deliverables over 3 years



Work Package 1 – Wastewater in Natural Environment (WiNE) – Phase 4

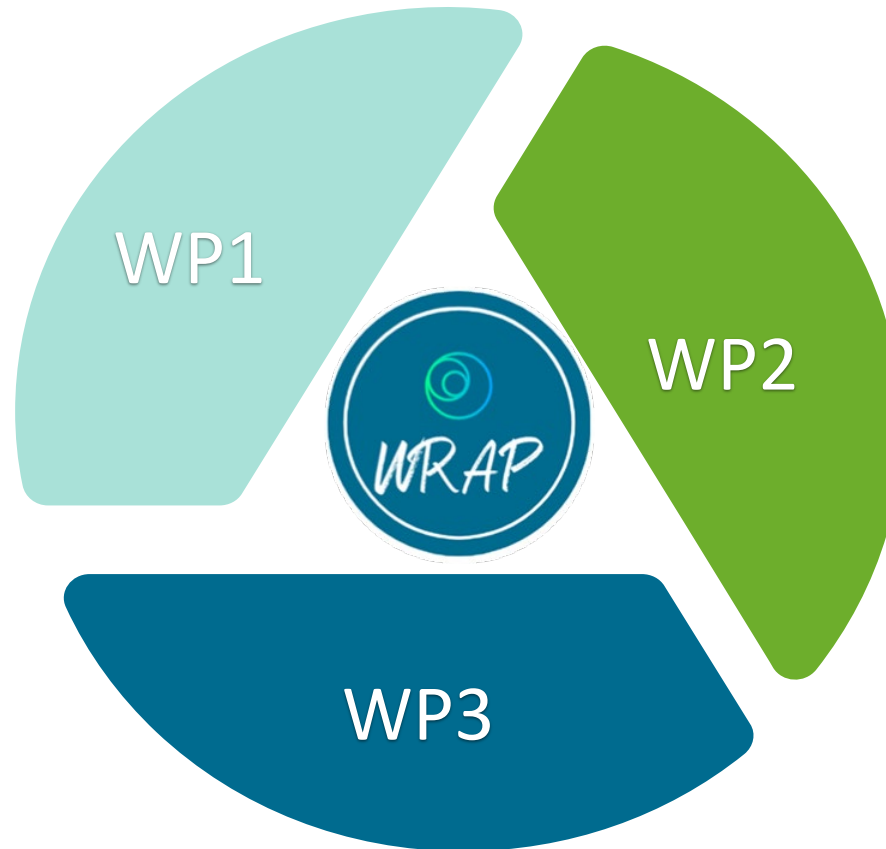
Guidance document:

- Lessons learned from the implementation of the Regulation for Water Reuse (with a focus on the results from the risk assessment)
- Industrial reuse: best practices for industrial reuse in IED and non-IED installations

Work Package 3 – Water Damage Key Assessment (WDKA)

Guidance document and tools to measure “substantial damage” to water and to identify possible scope under ECD and ELD:

- Application of the methodology developed by PT authorities to real cases in other countries
- Application of risk assessment methodologies to real cases scenarios

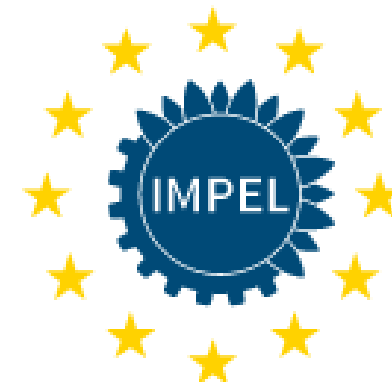


Work Package 2 – Catchment Areas and Risk Assessment (CARA)

Guidance document and tools to develop the risk assessment for water resources focusing on new legal requirements:

- New drinking water directive: Risk assessment and risk management of the catchment areas for abstraction points of water intended for human consumption
- New urban wastewater water directive: Risk assessment for areas of accumulation of micropollutants
- Improve water safety for other uses (like irrigation) through risk assessment methodologies

A step towards water resilience by increasing our knowledge of risk assessment over water!



Contact information:

- ✓ **For joining this project:** If you work for an IMPEL member organisation and would like to join the project or receive further information, **please contact the National Coordinator of your country and the Project Manager at geneve.farabegoli@isprambiente.it; anabela.rebelo@apambiente.pt**
- ✓ **For becoming a member of IMPEL:** If you are from an Environmental Authority or association of authorities that is based in a member state of the EU, a candidate country or another country applying Community law and would be interested in becoming a member of IMPEL, **please contact IMPEL Secretariat at info@impel.eu** for more information.
- ✓ **For all other interested parties:** please check out our new website for further information! www.impel.eu



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