



FOUNTAIN

PER AND POLYFLUORINATED ALKYL SUBSTANCES IN GROUNDWATER: WATER TREATMENT FOR INDUSTRIAL USE IN THE SURFACE FINISHING INDUSTRY

The **LIFE FOUNTAIN** project proposes an environmentally sustainable and cost-effective **remediation solution** for the reduction of groundwater and aquifer PFASs (PFOS, PFOA, GenX, PFBS, etc.) pollution from groundwater to be used in the industrial processes and from industrial wastewater used in the **Surface Finishing Industry**.

5 Italian Partners



3 PILLARS

- ✓ Development of novel sampling and analytical methodologies based on Surface Enhanced Raman Spectroscopy (SERS) technique for in-situ monitoring of PFASs.
- ✓ Remediation approach based on functionalized magnetic nanoparticles (Magnetic Sponges) and advanced electrochemical oxidation.
- ✓ Application of the developed technologies in an industrial environment in order to eliminate PFAS from the contaminated aquifer water stream and from treated process wastewater.



Start Date
August 1, 2022



Duration
42 Months



EU Funding
1,3 M€

Get in touch! #fountainproject

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A STEP TOWARDS:

- 💧 the circular and toxic-free economy;
- 💧 the restoration and improvement of the quality of the environment;
- 💧 the reduction of the water resource consumption.



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