



SOILPROM

Modelling pollutant transport across the soil–water–atmosphere continuum, and impacts on ecosystem services

SOILPROM **fights soil pollution** across Europe using cutting-edge technologies and collaborative research to reduce harmful pollutants and promote sustainable soil management to improve ecosystem health.

SOILPROM OBJECTIVES

Upgrade soil pollution models: Improve existing pollution models that monitor and predict soil pollution and test them under real conditions in the field.

Develop an open-access modelling platform and Decision Support Tool: Provide improved models and databases, integrating them into an open-access European platform with a user-friendly decision-making tool.

Support smarter soil management: Design strategies to balance soil health and environmental needs, ensuring that soils can provide essential services such as clean water, air and healthy crops.

Data-driven recommendations to stakeholders: Provide actionable recommendations and access to data to farmers, local authorities, and European decision-makers to promote better soil management practices.



TOGETHER, LET'S
COMBAT SOIL
POLLUTION!



9 USE CASES

LIMBURG (THE NETHERLANDS)

Water erosion and run-off of dissolved and sediment-bounded **pesticides**

VALTHERMOND 1 (THE NETHERLANDS)

Wind erosion and **atmospheric** transport and deposition of **dust** and **microplastics**

VALTHERMOND 2 (THE NETHERLANDS)

Wind erosion and **atmospheric** transport and deposition of **dust-bounded pesticides**

WAGENINGEN (THE NETHERLANDS)

Colloidal transport of **microplastics** in soil

WILLEBROEK (BELGIUM)

Atmospheric PFAS deposition to soil, and plant uptake of PFAS

JÜLICH ZWISCHENSCHOLLE (GERMANY)

Flow of **water** and **transport** of **pesticides** in **soils** and **groundwater**

CARTAGENA - LA

UNIÓN MINING (SPAIN)

Biogeochemistry of **metals**, and fate and transport of metals due to **infiltration** and **water** and **wind erosion** processes

NES (NORWAY)

Sorption and **desorption** of **phosphorus** in **soil** and transport of phosphorus to **surface water**

PUCK BAY (POLAND)

Transport of **nutrients** in **soil**, **groundwater**, and **surface water** with **marine discharge**



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