EDAPHOS

RESTORING POLLUTED SOILS

The EDAPHOS project aims to accelerate the **land rehabilitation and ecological restoration** of contaminated soils through innovative nature-based solutions. It aims to support the EU Mission "A Soil Deal for EU" by implementing **holistic land management practices**, devising risk assessment techniques considering pollution sources and impacts, mainstreaming ecological restoration as a business pursuit, and **showcasing its benefits for public well-being**.

WHY CARE FOR OUR SOILS?

Soils are the keystone of healthy and vibrant ecosystems, providing physical, chemical and biological functions necessary to support life. However, the **ever-increasing contamination of soils** poses a significant threat to human health as well as to terrestrial and aquatic ecosystems. It is estimated that **three million sites have been contaminated in Europe**, with **250,000 in need of urgent remediation**. The health impacts of soil on all species cannot be ignored, and measures must be taken to ensure **soil protection** and **restoration actions**.

SEVEN CASE STUDIES

In seven European case studies, the consortium will use advanced remote sensing tools and geographic information system-based methods to monitor **soil contamination and identify pollution sources**.
Lab and field studies will also be performed to validate the technological **readiness and cost-effectiveness of nature-based solutions as a remediation strategy** for reducing soil contamination in urban, peri-urban and rural settings.
Partners will develop performance indicators to measure **economic benefit** and **cost prevention**, as well as **tailored ecological finance instruments**.

48
Months

12
Partners

6
Countries

7
Case Studies

Objective 1

Improve the monitoring of contaminated soils through remote sensing.

Objective 2

Democratise ecological risk assessment methods & ecosystem service analyses.

Objective 3

Implement the effectiveness of nature-based solutions on contaminated soils.

Objective 4

Make phytoremediation an opportunity for the society and a business endeavour.

Objective 5

Tailor an end-to-end artificial intelligence framework and a spatial planning model.

contact@edaphos.eu

www.edaphos.eu

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