



MOBILES

MONITORING AND DETECTION OF BIOTIC AND ABIOTIC POLLUTANTS BY ELECTRONIC, PLANTS AND MICROORGANISMS BASED SENSORS

Funded by the European Union's Horizon Europe Programme, MOBILES develops advanced **biosensors to detect harmful chemicals, antimicrobial-resistant bacteria, and pathogens in soil, water, and air.** The project also conducts **metagenomic analysis** of contaminated soils to map pollutant-linked genes across Europe.

KEY OBJECTIVES

- **Electronic biosensors:** Eco-friendly devices for pollutants and pathogens detection.
- **Organism-based biosensors:** Genetically engineered plants, bacteria, and marine diatoms for pollution monitoring.
- **Metagenomic analysis:** Soil microbiota analysis in polluted areas for quick soil and land health assessment.
- **Environmental testing:** Biosensors validation using samples from contaminated sites.
- **Safety assurance:** Evaluating environmental impacts of innovative monitoring devices.

INNOVATION

- Advanced **biotechnology** for precise **environmental monitoring.**
- A unique soil metagenomic database mapping pollutant-related genes across Europe.

www.mobiles-project.eu



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