

ContaminatEd land Remediation through Energy crops for Soil improvement to liquid biofuel Strategies

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@CERESiS project



Our partners

























- 2.8 million potentially contaminated sites, just across the EU-28
- Global problem → 20 million ha of land where the soils are contaminated by potentially toxic elements
- Liquid biofuels are critical for **decarbonization** of transport – but high risk of taking land away from agriculture → Food vs Fuel
- High quality land is **not sufficient or** sustainable for biofuel production
- **Second generation** lignocellulosic bioenergy crops can be grown on contaminated land

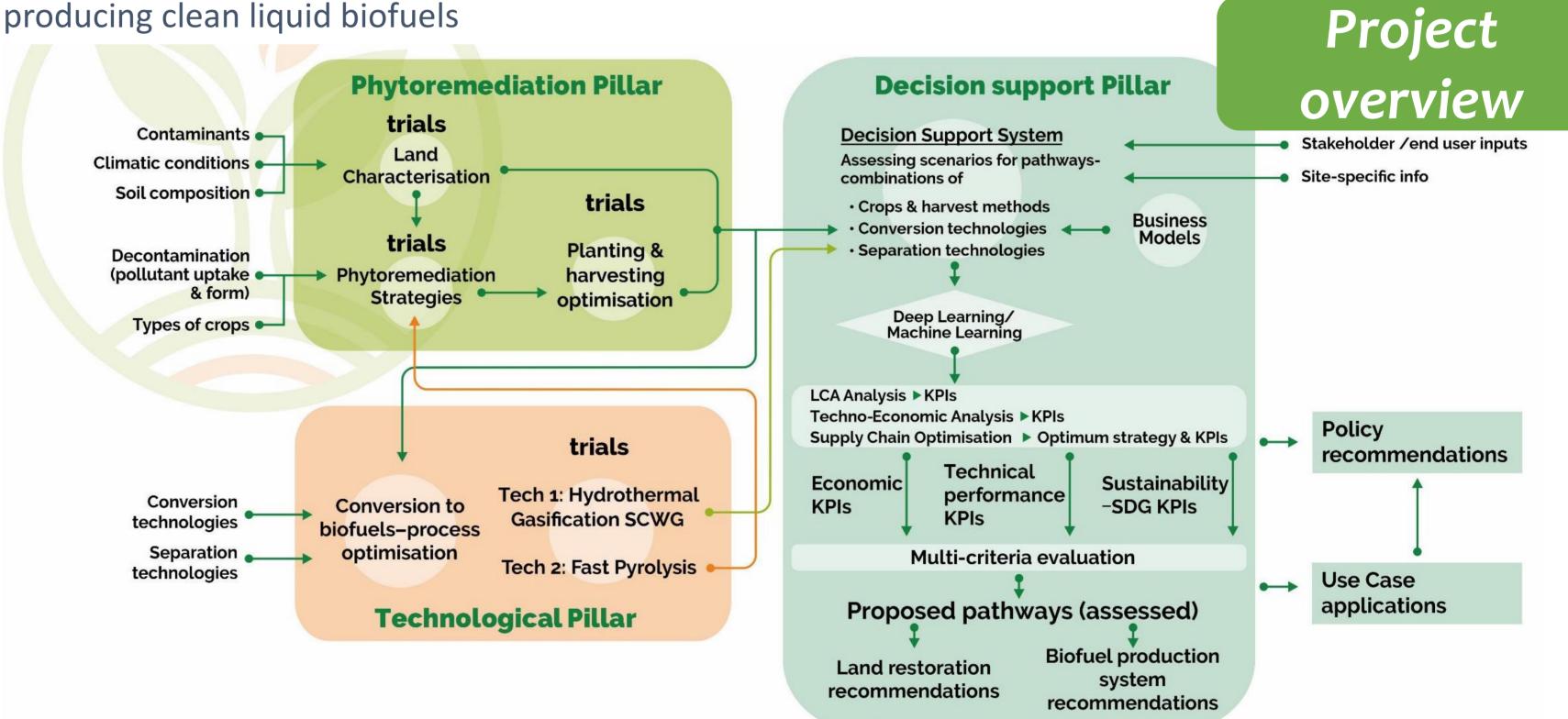
Example sites You are here! Italy Govan Ukraine

Aims and objectives

Aim: CERESiS aims to develop, assess and validate integrated biofuel production pathways linking land decontamination to appropriate bioenergy crops and environmentally & economically efficient advanced biofuel production → WIN-WIN

Objective 1: Demonstrate the suitability and effectiveness of various conventional and novel species of energy crops for phytoremediation purposes in contaminated land, against a variety of the most common contaminants globally

Objective 2: Demonstrate the potential of two novel thermochemical processes, i.e. Supercritical Water Gasification (SCWG) and Fast Pyrolysis (FP), for the production of biofuels and key biofuel precursors Objective 3: Provide decision support to stakeholders and policy makers in order to achieve optimal win-win solutions for site-specific land decontamination through phytoremediation while simultaneously





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Fonds de recherche Société et culture ébec 🕶 🐯

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