Project Partner Search Form

☒ I offer my expertise to participate as a Partner in a Horizon Europe Project

☐ I am planning to coordinate a project and I am looking for Project Partners

TOPICS OF INTEREST

- **Soil health:** The composition of soil microbiology indicating soil health, including their effects on crop yields, plant health, produce nutrient-density, agro-chemical use and other agricultural practices.
- **Microbiology in bio-waste products:** The types and distribution of micro-organisms present in bio-waste products that show improvement in soil health parameters. In addition to their optimal composition for different crop types.
- **Compost from multiple bio-waste streams:** Heat controlled composting with inputs from multiple bio-waste streams to create bio-fertilizers that are rich in beneficial microorganisms to soil health. In addition, what are microbiological parameters to optimize for in the composting process and what are their effects on physio-chemical parameters.
- **Methods of heat-controlled composting:** the process of creating biologically rich compost and the comparison to conventional compost production on different aspects such as, length of the process, operational costs, economic viability in large-scale production and product quality.
- **Soil health education and knowledge share:** ways to reconnect human society to nature and soil through compost education and promotion. What are the most compelling channels to educate farmers on the importance of soil health and soil building practices.

HORIZON-MISS-2022-SOIL-01-10: Innovations for soil improvement from bio-waste

HORIZON-MISS-2022-SOIL-01-07: Foster soil education across society

HORIZON-MISS-2022-SOIL-01-03: Soil biodiversity and its contribution to ecosystem services

HORIZON-MISS-2022-SOIL-01-02: Improving food systems sustainability and soil health with food processing residues

PARTNER INFORMATION

Description of the Legal Entity

ReGen is an innovative soil health startup with seed funding. It has incorporated in Israel and is part of the up-and-coming regenerative agriculture ecosystem in Israel.

☐ Higher Education	☐ Research Institution	☐ Public Administration
☒ Industry /SME	☐ NGO	☐ Other: ***Please specify***

Description of the (Research) Team

ReGen is a soil health startup focusing on bio-fertilizer production, soil microbiome testing lab and regenerative agriculture consulting. It is the first of its kind in Israel to provide these services enabling biological regenerative farming.

ReGen's soil microbiology lab provides soil microbiome tests and analysis to farmers according to Dr. Elaine Ingham's methodology of microscopy. The lab is able to provide microorganism data from soil, compost and liquid compost samples. ReGen has a team of lab technicians skilled in soil microorganism detection and categorization that can produce reports describing and analyzing the soil food web microbiome. The lab tests provide a peak into the complexity of life in the soil and is on par with the current scientific view of soil as living, breathing system that is teeming with life.

ReGen's is currently in R&D for large scale production of biologically rich compost on a dairy farm in Israel. ReGen's team is experienced with a distinctive composting process, in addition to creating biological inoculants for composting. These methods transform bio-waste from multiple waste streams into compost full of the soil food web microorganisms such as, beneficial fungi, bacteria, and nematodes. ReGen's large scale pilot production facility mimics the operational production of existing composting manufacturers to develop a production model that could be easily incorporated into the existing composting market.

Expertise of the Team Leader

For the past decade I have been working as a regenerative landscape designer, educator, practitioner, and community organizer. In the past 5 years I decided to focus on the soil microbiome and how it relates to plant health, human health, and planetary health. Climate change, ecosystem restoration, circular economy, and local regenerative food production have been the focus of my work. I am passionate about changing the face of agriculture through restoring soil health and I believe it should be done by simultaneously changing the waste management system and diverting organic waste from the landfill into the compost pile where it can renew and restore degraded landscapes.

Potential role in the project

☒ Research ☐ Training

☐ Dissemination ☒ Other: ***microbiology lab, compost production***

Already experience as a	Coordinator	☐ YES	☒ NO
	Partner	☐ YES	☒ NO
	Expert Evaluator	☐ YES	☒ NO

CONTACT DETAILS

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