

PARTNERS



Steel Belt Systems

F.I.I. Branca



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With the contribution of the LIFE Programme of the European Union
LIFE20 ENV/IT/000229

PROJECT DETAILS

PROJECT TITLE: Organic-mineral fertilizers by using recovered sulphur & orange wastes as sustainable soil recovery from desertification

START DATE: 01/09/2021

END DATE: 28/02/2025

TOTAL LIFE PROJECT: 3,791,715 Euro

EU CONTRIBUTION: 1,743,850 Euro

CONTACTS

PROJECT COORDINATOR

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MORE INFO

www.life-recorgfertplus.eu



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LIFE RecOrgFert PLUS

Organic-mineral fertilizers by using recovered sulphur & orange wastes as sustainable soil recovery from desertification



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PROJECT

LIFE RecOrgFert PLUS introduces an innovative approach for dried orange peels and recovered Sulphur management. It gives evidence that the combination of organic and mineral components in a unique fertilizer meets the requirements of sustaining crop yield, representing a sustainable substitute of chemical fertilizers.

LIFE RecOrgFert PLUS is for:

1 Testing in extended open fields the new type of fertilizer;

Fine-tuning the scalable and modular industrial pilot line with continuous process production.

2

TARGET PROBLEM

Climate change and intensive agriculture with extensive use of chemical fertilizers are causing substantial loss of soil fertility and capacity.

Therefore, there are two major issues to face:

Desertification: according to the European Environmental Agency, 8% of the European territory – about 14 million hectares – already shows some degrees of desertification.

Soil salification: this is an irreversible phenomenon that erodes agricultural land by the continuing need to produce food and raw materials, through the adoption of unsuitable techniques, that often do not provide a natural or artificial drainage system of the accumulation of salt in the earth.

OBJECTIVES



Turning dried orange peels and recovered sulphur into high-quality innovative organic-mineral fertilizer



Setting-up and correctly sizing the innovative pilot process



Testing the organic-mineral fertilizer positive effect on germination and plant growth



Reducing the GHG emissions and improving soil health



Verifying in a “Life Cycle Approach” the low environmental impact of the new organic mineral fertilizers

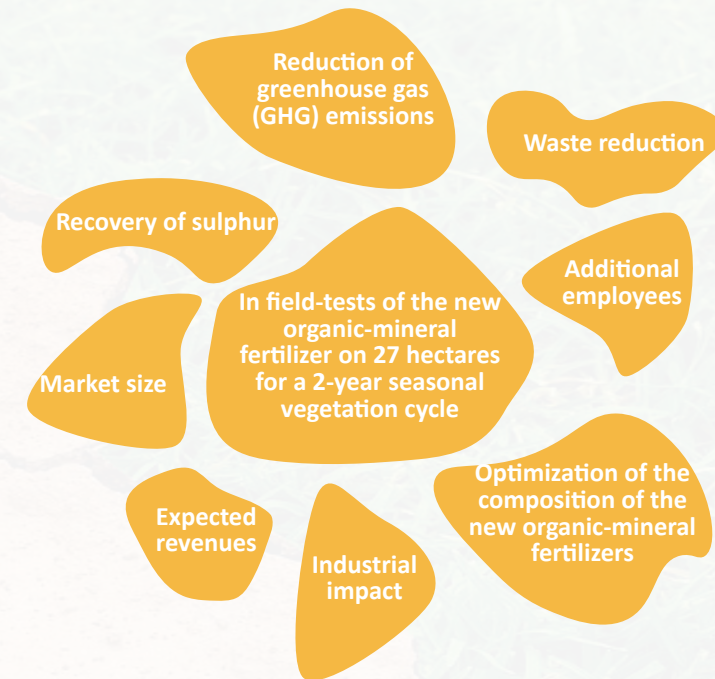


Giving an opportunity for economic and social development in Sicily



Demonstrating the business model profitability

FORESEEN IMPACTS

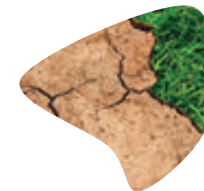


ENVIRONMENTAL IMPACTS

Reduction of greenhouse gas emission because organic waste is not sent to disposal anymore



Mitigation of soil surface desertification



No use of chemical fertilizers (NPK)



Recovery of Sulphur

