Biofoodonmars

BIOFORTIFIED AND CLIMATE-RESILIENT FOOD AND FODDER PRODUCTION ON MARGINAL SOILS

3° Call:	2019
Project period:	01/2020 till 12/2022
Topic:	Activation of marginal soils for production of food and non-food products
Keywords:	Silicon, selenium, soil, biofortification, valorization, climate change
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Website:	Faccesurplus.org

FACCE SURPLUS
SUSTAINABLE AND RESILIENT AGRICULTURE
FOR FOOD AND NON-FOOD SYSTEMS

BACKGROUND

By 2050 the world's population will exceed 9 billion requiring the increase of food production by 70-85% (Dhankher & Foyer 2018), while ensuring food security and safety.

OBJECTIVE

To combat the decreasing productivity of arable soils and progressive climate changes, the BioFoodOnMars project will develop new opportunities to increase the amount and quality of food and feed crops in Europe.

The project aims at mapping potential crop yields and the valorization opportunities on marginal soils under various regional conditions in Europe and trying to optimize the biomass production and valorization with biofertilizers or soil additives, like silicon, or management changes supported by remote sensing and digitalization. The results will be aligned to design toolboxes for farmers and policy makers.

METHODOLOGY

The project will use new strategies for sustainable growth of plant production and increasing climate change resilience of agroecosystems.

FUTURE

By the end of 2022, the industrial partners in the project aim to valorize at least 33 percent of their annual volume of secondary raw materials, with a minimum profit margin of 10 percent.