excaliburh2020.eu

EXCALIBUR

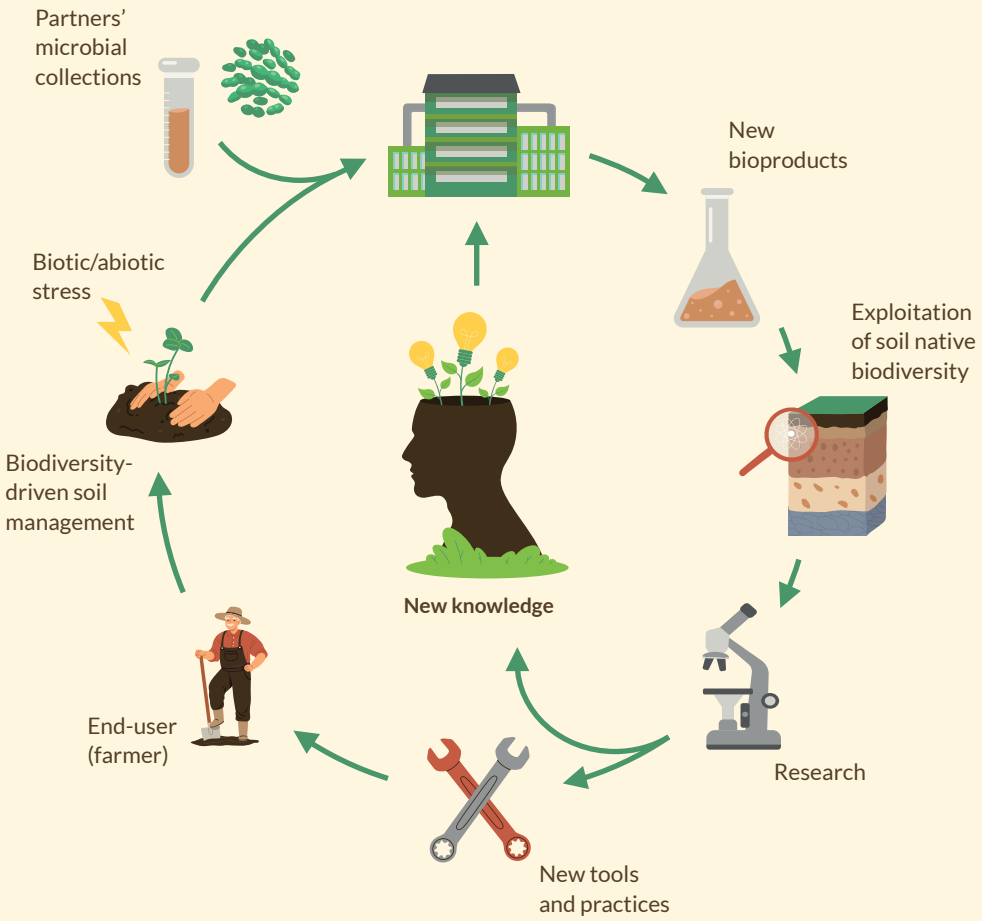
EXPLOITING THE MULTIFUNCTIONAL POTENTIAL OF BELOWGROUND BIODIVERSITY IN HORTICULTURAL FARMING

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 817946.

THE PROJECT

EXCALIBUR aims to enhance the efficacy of microbial biostimulants and biopesticides capable of improving crop efficiency and protection, respectively, by stimulating the native soil biodiversity, thus reducing the use of chemical inputs towards a more sustainable agriculture, aligned with the goals of the Common Agricultural Policy, the EU Green Deal, and the Farm to Fork Strategy.

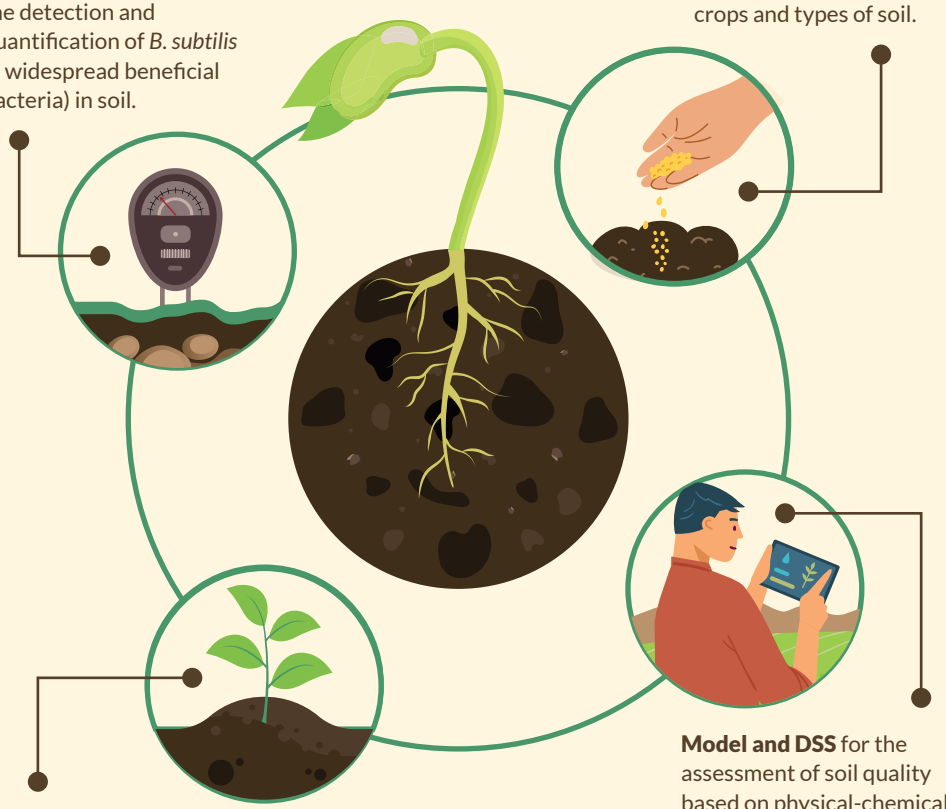
EXCALIBUR CONCEPT



EXCALIBUR OUTCOMES

Aptamer-based probe for the detection and quantification of *B. subtilis* (a widespread beneficial bacteria) in soil.

Consortia of beneficial microorganisms with biostimulant or biocontrol effects, tailored to specific crops and types of soil.



Methodology for the enhancement of the efficacy of the use of bioinoculants in horticulture.

Model and DSS for the assessment of soil quality based on physical-chemical and biological parameters.

THE CONSORTIUM

EXCALIBUR involves 16 entities from 10 EU member states, including research centers, universities, farmers, advisors, manufacturers, and consultants.