

WANT TO TAKE PART IN THE PROJECT?

Adopt the LIFE VitiCaSe
protocol and digital platform!

Find out more and access materials at:
www.life-viticase.eu



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LIFE-2022-SAP-CLIMA • Topic: LIFE-2022-SAP-CLIMA-CCA • Type of
action: LIFE Project Grants • Granting authority: European Climate,
Infrastructure and Environment Executive Agency • Keywords: Carbon
Sequestration, Soil Organic Carbon, land-based CO₂ removal • Total
Eligible Budget: € 2,215,903 • EU Contribution: € 1,329,542



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LIFE VitiCaSe

Viticulture for Soil Organic Carbon Sequestration

CARBON FARMING IN VITICULTURE

Field trials, open innovation and digitalisation:
LIFE VitiCaSe, the project dedicated
to regenerative viticulture



A unique project in Europe and at the forefront worldwide, featuring a set of agricultural and soil management practices designed to enhance the vineyard ecosystem's capacity to capture and retain atmospheric carbon.

The goals? Generate carbon credits for farmers and contribute to climate change mitigation.

THE VINES, LIKE ALL PLANTS, PLAY AN IMPORTANT ROLE IN THE CARBON CYCLE.

Vineyards can therefore be organised and managed in ways that promote the conservation and accumulation of carbon in the soil and vegetation, removing it from the atmosphere.

Adopting these practices not only helps the environment by reducing the climate impact, but can also improve soil quality and the long-term sustainability of the wine sector

LIFE VitiCaSe harnesses this potential by integrating agricultural practices, digital tools, blockchain, and carbon credit certification.

The project considers every stage of the process – from studying various sustainable soil-management practices, to measuring impacts with the support of digital tools, through to the generation and sale of certified carbon credits in line with leading international standards.

Thanks to this approach, this open-innovation project, led by Image Line together with research centres, wineries in Tuscany and Veneto, farmers' associations, innovative SMEs and consulting companies, aims to create a new business model for the wine sector.

DIGITAL PLATFORM AND RESULTS

LIFE VitiCaSe provides an advanced digital platform, integrated with blockchain, to support the management of regenerative agricultural practices and the certification of carbon credits.



The latest results and developments are available online at www.life-viticase.eu.

Partner



Project coordination and digital platform



Scientific research on agricultural practices



Consultancy for carbon credit management and certification



Farmer outreach and support



Practical implementation in vineyards



Digital innovation and blockchain



Communication and dissemination

- ✓ **SSM Good Practices Manual:** a guide to regenerative viticulture and soil health.
- ✓ **Technical Manual on Carbon Storage:** strategies to increase SOC (Soil Organic Carbon) in vineyards and agricultural soils.
- ✓ **User Manual for the RothC Tool:** a practical guide to simulate and analyse soil carbon.
- ✓ **Pilot Farm Characterisation:** data on soils, management and pedoclimatic conditions.
- ✓ **Environmental and Economic Assessment Framework:** tools to measure impacts and benefits.