



Soil Quality Analysis Tool: Implementing Smart Farming Applications using EO Data, Soil Sensors & Robotics

Fact Sheet

Project Information

SQAT

Grant agreement ID: 101129644

DOI

[10.3030/101129644](https://doi.org/10.3030/101129644)

EC signature date

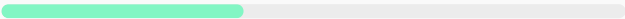
24 January 2024

Start date

1 February 2024

End date

31 July 2027



Funded under

Digital, Industry and Space

Total cost

€ 3 586 760,00

EU contribution

€ 2 999 903,75

Investment in EU policy priorities

Digital agenda		Clean air	
Artificial Intelligence		Climate action	
Biodiversity			

Coordinated by

UDRUZENJE EKO-INOVACIJA
NA BALKANU

Serbia

Project description

Growing solutions for soil health challenges

Farms are at the forefront of the data economy, propelled by digitalisation, robotics and smart algorithms. However, these advancements exacerbate societal pressures on soil health, demanding cleaner water, healthier soils, increased carbon storage and biodiversity. Current solutions are costly and unsuitable for farmers. With this in mind, the EU-funded SQAT project will develop a smart soil mapping service. Combining multi-level, multi-technology approaches, SQAT offers high-resolution soil property maps and tailored solutions for farmers. Using autonomous robot-mounted sensors and innovative in situ analysis tools, the SQAT system enhances productivity while reducing costs. Co-developing with SMEs, SQAT aims to commercialise its solutions, empowering farmers with variable-rate applications for liming, fertilisation, seeding, tillage and carbon farming.

Fields of science (EuroSciVoc)

[social sciences](#) > [economics and business](#) > [economics](#) > [production economics](#) > **[productivity](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electronic engineering](#) > **[sensors](#)**

[natural sciences](#) > [biological sciences](#) > [ecology](#) > **[ecosystems](#)**

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > **[agriculture](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electronic engineering](#) > **[robotics](#)**



Keywords

[farm to fork](#)

[remote sensing](#)

[GNSS](#)

[proximal sensing](#)

[automated robotic platforms](#)

[sustainable agriculture](#)

[MRV](#)

[regenerative agriculture](#)

[precision liming](#)

[variable rate sowing](#)

Programme(s)

[HORIZON.2.4 - Digital, Industry and Space](#)

MAIN PROGRAMME

[HORIZON.2.4.10 - Space, including Earth Observation](#)

Topic(s)

[HORIZON-EUSPA-2022-SPACE-02-54 - Copernicus downstream applications and the European Data Economy](#)

Call for proposal

[HORIZON-EUSPA-2022-SPACE](#) 

[See other projects for this call](#)

Funding Scheme

[HORIZON-IA - HORIZON Innovation Actions](#)

Coordinator



UDRUZENJE EKO-INOVACIJA NA BALKANU

Net EU contribution

€ 460 968,75

Total cost

€ 460 968,75

Address

PETRA DRAPSINA 32, 1ST FLOOR, APART 3

21000 Novi Sad

 **Serbia** 

Activity type

Other

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (10)



AEROVISION BV

 Netherlands

Net EU contribution

€ 278 687,50

Address

STADSRING 47

3811 HN Amersfoort 

SME 

Yes

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 398 125,00



LEIBNIZ-INSTITUT FUR AGRARTECHNIK UND BIOÖKONOMIE EV

 Germany

Net EU contribution

€ 500 078,75

Address

MAX EYTH ALLEE 100

14469 Potsdam 

Region

Brandenburg > Brandenburg > Potsdam

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 500 078,75



EIGEN VERMOGEN VAN HET INSTITUUT VOOR LANDBOUW- EN VISSERIJONDERZOEK

 Belgium

Net EU contribution

€ 404 375,00

Address

**BURG. VAN GANSBERGHELAAN 92 BUS 1
9820 Merelbeke** 

Region

Vlaams Gewest > Prov. Oost-Vlaanderen > Arr. Gent

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 404 375,00



ADF FARM SOLUTIONS LIMITED

 Ireland

Net EU contribution

€ 245 875,00

Address

**ONAGH TAUGHMACONNELL BALLINASLOE
H53 DD70 ROSCOMMON** 

SME 

Yes

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost
€ 351 250,00



HAHN-SCHICKARD-GESELLSCHAFT FUR ANGEWANDTE FORSCHUNG EV

 Germany

Net EU contribution

€ 265 150,00

Address

WILHELM SCHICKARD STRASSE 10
78052 Villingen Schwenning 

Region

Baden-Württemberg > Freiburg > Schwarzwald-Baar-Kreis

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost
€ 265 150,00



EXOBOTIC TECHNOLOGIES

 Belgium

Net EU contribution

€ 161 000,00

Address

DIESEGHEMLEI 33
2640 Mortsel 

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Antwerpen

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 230 000,00



VAN DEN BORNE PROJECTEN BV

 Netherlands

Net EU contribution

€ 161 000,00

Address

POSTELSEDIJK 15
5541 NM Reusel 

SME 

Yes

Region

Zuid-Nederland > Noord-Brabant > Zuidoost-Noord-Brabant

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 230 000,00



TERRA CONTROLLING TMD D.O.O

 Serbia

Net EU contribution

€ 161 000,00

Address

SREMSKIH PARTIZANA 32
21208 SREMSKA KAMENICA 

SME 

Yes

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 230 000,00



AGRILAB LIMITED LIABILITY COMPANY

 Ukraine

Net EU contribution

€ 161 000,00

Address

**ST BROVARSKA 2 VELYKA OLEKSANDRIVKA
17600 VARVA** 

SME 

Yes

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 230 000,00



OFFICINE INNOVAZIONE S.R.L. SOCIETA' BENEFIT ovvero in forma abbreviata OFFICINE INNOVAZIONE S.R.L. S.B.

 Italy

Net EU contribution

€ 200 768,75

Address

VIA TORTONA 25
20144 Milano 

Region

Nord-Ovest > Lombardia > Milano

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 286 812,50

Partners (1)



PARTNER 

OST - OSTSCHWEIZER FACHHOCHSCHULE

 Switzerland

Net EU contribution

€ 0,00

Address

OBERSEESTRASSE 10
8640 Rapperswil 

Region

Schweiz/Suisse/Svizzera > Ostschweiz > St. Gallen

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data

Last update: 1 February 2024

Permalink: <https://cordis.europa.eu/project/id/101129644>

European Union, 2025

