

June 2022



COPERNICUS SUPPORTS PRECISION FARMING FOR AN APULIAN VINEYARD

>>> A few years later

In the past few years this story has not advanced because the final user did not have required level of technological maturity to fully adopt and integrate the solution in their processes.

Daniela Iasillo, Planetek Italia Srl Società Benefit



BENEFICIARIES	Planetek Italia	Tormaresca Vineyard owner; Winegrowers	Public Innovation agencies; Food industry	Citizens and Society
SERVICES	TIER 1: SERVICE PROVIDER Sentinel-2	TIER 2 PRIMARY USER Green leaf cover fraction (GLCV); Status on the wine vigour and the heterogeneity; Zoned maps for implementation of specific agricultural practices (fertilisation, water monitoring, pruning, bunch thinning).	TIER 3 SECONDARY USER Innovative practices for small farmers; Improved harvest management; Optimisation of agricultural practices (fertilisation, irrigation, health protection); More efficient detection of diseases or nutrient deficiencies.	TIER 4 END USER BENEFICIARIES A more sustainable processes of wine production and improved quality; Increase in productivity and a reduction of environmental impact.

Value chain definition following SeBS Methodology - <https://earsc.org/sebs>

The space-based solution

This Copernicus-based solution was produced by a commercial company for other users such as companies, professionals, agencies, associations, single citizens. In the meantime, there were no noticeable modifications and the solution is the same as it was.

The Usage Maturity Level

Since 2018, the solution remained at more or less at the same UML 2/3.

Thematic Area



AGRICULTURE, FOOD, FORESTRY AND FISHERIES

Region of Application



APULIA

Sentinel mission used



S2

Copernicus Service used



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Usage Maturity Level



2/3

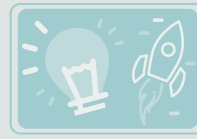
Overall benefits

ECONOMIC



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

INNOVATION



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

ENVIRONMENTAL



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

SCIENCE



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

REGULATORY

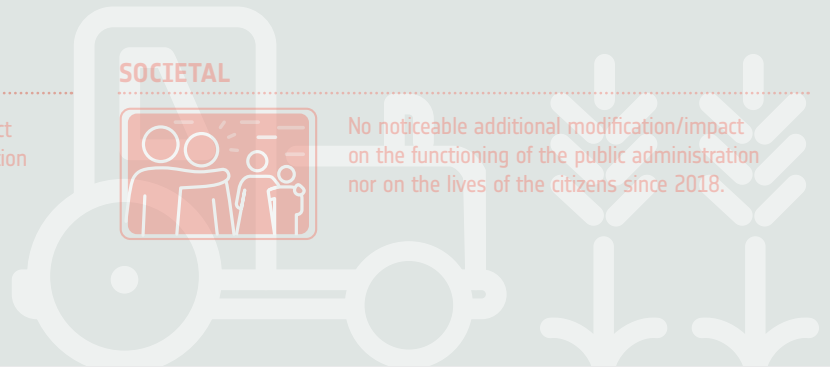


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SOCIETAL



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.



Benefits classification following SeBS Methodology - <https://ears.org/sebs>

Interesting facts...

In the past years, within the framework of E04Society programme supported by ESA, a service for coffee plants monitoring was implemented and tested in Democratic Republic of Timor-Leste for purposes of CRITE (Coffee Rehabilitation In Timor East) project.



Outlook to the future

The service provider of this application, Planetek Italia, has further developed the solution and is about to release Rheticus®Agriculture, a cloud-based service designed to provide Copernicus-based data and analytics for wine and other agricultural food production.



Acknowledgements

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Contacts

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