

AFTER-LIFE Plan



Life ZEOWINE

ZEOLite and WINERY waste
as innovative product for wine production



LIFE17 ENV/IT/000427

www.lifezeowine.eu



1. LIFE ZEOWINE Project

The LIFE ZEOWINE Project (2018-2022) was a demonstration project aimed to improve the protection and management of vineyard soil and the well-being of the vine through the application to the soil of an innovative product "ZEOWINE" deriving from the composting of wastes from the wine sector and zeolite.

Starting from the results of previous experiments, which aimed to evaluate the effectiveness of zeolite and compost in a separate way in other production chains, the project has defined protocols for the production of ZEOWINE product and its application in productive and in new vineyard plant fertilization.

The activities performed within the project were planned to evaluate and prove the synergy of the positive effects of the application of ZEOWINE on soil and vine plants in terms of:

- **improvement of the vine nutrition management**, reducing dependence from organic and mineral fertilizers and increasing the fertility of soil;
- **improvement of the characteristics of grapes and wines produced** which will better preserve the fruity and vegetable aromas, and will increase the polyphenolic and antioxidant supply;
- **offering a solution to the problem of waste management by closing the company production cycle**, since the production of ZEOWINE starts from wine processing of waste compost with zeolites.

The application of ZEOWINE product in the vineyard, moreover, confirmed the results also in the vineyard, at vine plant and final production levels. Specifically, ZEOWINE application has shown improvement in:

- **SOIL ORGANIC MATTER CONTENT**: ability to maintain the reserve of nutrients and stabilized organic matter in the soil (carbon sequestration);
- **FUNCTIONAL BIODIVERSITY**: increase in enzyme activities linked to nutrient cycles and in total microbial activity;
- **MICROARTHROPOD BIODIVERSITY**: microarthropods particularly adapted to edaphic life (QBs-ar INDEX);
- **INCREASE IN WATER RETENTION CAPACITY and AGGREGATE STABILITY** of soil;



- REDUCTION OF BIOAVAILABLE COPPER
- BETTER LEAF GAS EXCHANGE CAPACITY
- BETTER PERFORMANCE IN THE MORE STRESSED YEAR (2021): higher stem water potential
- EFFICIENT RIPENING: simultaneity between technological and phenolic maturation
- INCREASE IN YIELD AND IMPROVE QUALITY BOTH AS SUGARS AND POLYPHENOLS

LIFE ZEOWINE has also contributed:

- **to increase the sustainability and competitiveness of the wine supply chain**, implementing nutritional and water efficiency and reducing energy consumption, closing the production cycle of waste material from the supply chain and ensuring higher stability in yields and quality of the grapes, obtaining, product more suited to modern market demands;
- **to improve consumer health protection**, creating ideal growth and development conditions for crops capable of determining improvements in terms of resistance, healthiness and plant production.

Another important result reached during the project was the **successful registration of ZEOWINE as «soil improver»** (Beneficiary in charge: DN360 Reg. n. 03006/21 - 31/05/2022) in the Italian register of fertilizer producers (Regulation CE 2003/2003 and D. Lgs. 75/2010).

Demonstrative fields have been made available in the partners' companies, such as:

- **productive vineyards and new vine plants at CMM in Tuscany (IT)** for the distribution of ZEOWINE produced in the first productive year and production and delivery of ZEOWINE to the support partner companies in the two successive years,
- **vineyards at support partners in Tuscany (IT): COL D'ORCIA**, where ZEOWINE has been produced in the 2nd year with their own waste and **Tenuta delle Ripalte** where ZEOWINE produced at CMM in the 2nd productive year is going to be distributed.
- vineyards at **Tenuta Santo Spirito (Sicilia)** where ZEOWINE produced at CMM will be distributed in the 3rd productive year.



- These areas have been used for the implementation of project activities, for monitoring and analysis of their results and impacts.

2. Results achieved

LIFE ZEOWINE production and protocols of application both in the pilot productive vineyards as well as in young/new vineyard plants was based on:

- the development of ZEOWINE: production and application protocols through the composting of wastes from viticultural production and zeolite;
- vineyard soil treatment with ZEOWINE: application of ZEOWINE compost to productive and young vineyards in areas with different topographic and climatic conditions to demonstrate the effectiveness of ZEOWINE fertilization on selected local varieties of vine plants;
- the definition of definitive application protocols according to the outcomes of the above-mentioned actions.

By defining ZEOWINE's production and protocols of application, the implementation of the project allowed to demonstrate that the presence of zeolite in composting process of winery wastes improved the quality of the final compost in terms of:

- electrical conductivity,
- nutrient content,
- phytotoxicity,
- microbial activities and
- physical properties.

In particular, zeolite increased the adsorption of ammonium ions of compost, thus resulting in higher total nitrogen content in zeolite-based compost with respect to control compost without zeolite. The retention of ammonium when natural zeolite is added in the



composting process is a very important aspect to increase the agronomic value of compost and reduce the environmental pollution.

Finally, the py-GC results demonstrated that integration of zeolite in composting process offered the benefit of the higher carbon humification with respect to control compost.

By comparing the two zeolite-based composts (ZEOWINE 1:10 and ZEOWINE 1:2.5), we can conclude that **the ZEOWINE 1:10 compost is the most suitable practical application for improving the winery wastes composting process and, at the same time, for saving on the cost of providing zeolite.**

Considering the production of about 210 tonnes of ZEOWINE during the project at CMM and Col D'Orcia and its application on 0,35 ha of a new plant (CMM) and 3,5 ha of vineyard in production (0,4 CMM + 2,4 Col D'Orcia + 0,3 Tenuta delle Ripalte + 0,4 Tenuta Santo Spirito) with a single application of ZEOWINE at a dose of 30 t / ha, LIFE ZEOWINE has shown that the production and application ZEOWINE's innovative product is effective and beneficial in the biological and biodynamic viticultural chain and in the improvement of soil quality with reference to the following application parameters:

- **ORGANIC SUBSTANCE CONTENT** – Organic carbon increased from 42,6 to 56,7 t / ha; Total Nitrogen from 3.75 to 5.01 t / ha; Humic carbon increased from 8.4 to 15 t / ha; total Potassium from 10 to 12.5 t / ha.
- **BIODIVERSITY**, in terms of enzyme activities linked to the nutrient cycles, microbial activity and pedofauna. Specifically: QBS-ar index increased from 85 to 117; microbial activity from 880 to 1400 mmolMUB/kg/h; beta-glucosidase activity from 223 to 349 mmolMUB/kg/h; phosphatase activity from 131 to 158 mmolMUB/kg/h. Such variations indicate an increase of about 45% of the enzymatic activities.
- **SOIL IDRIC RETENSE CAPACITY** is 13,7%. In the soil treated with ZEOWINE, we registered an increase in the water retention capacity of 1%, corresponding to 24 m³/ha/year.



- **SOIL STRUCTURE** The soil aggregate stability increased from 1.5 to 2 %.
- **REDUCTION OF THE BIOAVAILABLE COPPER**, from 18 to 11 mgCu/kg.

The project, moreover, demonstrated an impact on greenhouse gas emissions GHG generated by specific agricultural activities - composting and application of the product itself, which contributes to increasing the ability to fix and maintain the reserve of mineral elements in the soil, reducing the need for fertilization, increasing the water retention capacity of the soil, and reducing the no. of soil fertilization processes with consequent reduction of emissions related to the use of agricultural machinery. The total reduction in GHG is approximately 6,5 t / ha CO₂ per year. Increased APA content (in grapes of about 50 mg / L, this increase results in a better course of alcoholic fermentation and an aromatic kit of the most complete grapes).

Therefore, we can recap that in terms of Environmental benefits, the project demonstrated and confirmed its impact in reference to:

- **Improved Environmental and Climate Performance:** confirming the expected reduction of GHG (CO₂ and N₂O) and waste reduction
- **Better use of natural resource**, in terms of reduced resource consumption, and reduced water consumption, which was almost double the value expected;
- **Sustainable land use, agriculture and forestry**, in terms of soil surface improved and agricultural land under sustainable management.

The proposed solutions have been shown to have a positive impact on the aspects characterizing the vineyard soil management and the wine production and on other relevant environmental aspects as recapped in the table below:



ENVIRONMENTAL BENEFITS	VARIATION
Increase in Soil Organic Carbon	+ 30%
Increase in microbial functionality	+50%
Increase in biodiversity (QBS-ar Index)	+38%
Increase in stable aggregates	+33%
Increase in Soil Water Retention Capacity	100% (= 24 m ³ /ha/year)
Reduction of the bioavailable copper	-40%
Reduction of GHG emissions:	
CO ₂	16.3%
N ₂ O	13.86%

Furthermore, the vineyard soil management strategies of ZEOWINE have made it possible to maintain and improve the qualitative levels of the productions, without modifying their commercial value.

In fact, with regard to **all the parameters analyzed (productivity of the plants, organoleptic / product characteristics of the grapes and wines)**, there were **positive differences between the productions obtained with pilot vineyard farms method and those obtained with the ZEOWINE application.** .

In fact, although with slightly different values between the 3 vegetative seasons (2019, 2020, 2021) the improvement of ZEOWINE treatments on final productions (grapes and wine) were analyzed for CMM for all the 3 years, and for COL D'ORCIA for 2020 and 2021 and have shown:

- **GRAPE QUALITY:** slow maturity in Zeowine, witnessed by lower sugar content and lower total acidity, which allowed a **better balance between sugar content and anthocyanins;**



- **GRAPE QUANTITY:** higher yield and higher berry weight;
- **WINE CHARACTERISTICS:** higher alcohol content.

The effect of ZEOWINE on the qualitative characteristics was very significant; all the quality parameters have improved following the treatment, indirectly demonstrating an improvement in the characteristics of the wines that will be obtained. In 2021 , differentiated micro-vinifications of the various trials (control vs compost vs zeolite vs ZEOWINE 1:2,5 vs ZEOWINE 1:10) has been carried out to confirm the results obtained.

Another important result reached during the project was the **successful registration of ZEOWINE as «soil improver»**.

Infact, fertilizers placed on the market in Italy are subject to control to ascertain compliance with the provisions of Regulation (EC) No. 2003/2003 and Legislative Decree 75/2010. ZEOWINE falls within the regulatory classification of “Green Composted Soil improver” as defined by Legislative Decree 75/2010 All 2.

DN360 has carried out the registration of the Company in the Register of Fertilizer Producers (National Agricultural Information System (SIAN) 11 April 2022; Registration number: 03006/21) and is now registered in the list of Fertilizer Producers by the National Agricultural Information System (SIAN).

The ZEOWINE registration to the category of amendments in the Register of Fertilizers has been carried out the 12 May 2022 (Registration number: 0036556/22).

REGISTRO FERTILIZZANTI			
	Menu Funzioni 		
REGISTRO DEI FERTILIZZANTI			
Usò Convenzionale			
Ricerca per Nome Commerciale			
Ricerca	Guida		
Elenco Fertilizzanti			
Ricerca per: ZEOWINE			
Totale Fertilizzanti: 1			
Codice	Nome commerciale	Denominazione tipo	Sei.
0036556/22	ZEOWINE	All. 5.3.6 - Ammendante compostato verde	
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Dettaglio			

For the placing on the EU market, the new Regulation 1009/2019, which will come into force from July 2022, ZEOWINE will be considered to belong to the Constituent Materials Category (CMC) 3.

For the first time, the EU legislation will allow the conformity and thus the free marketability throughout the EU and the CE marking of organic recycled products. However, in order to be classified as compost in the **CMC 3 category**, the concentration of zeolite has to be reduced to 5% by weight.

In view of this, an additional composting cycle using zeolite at 5% by weight and winery wastes derived from 2021 harvesting has been carried out, confirming equivalent results.



3. LIFE ZEOWINE AFTER-LIFE Communication Plan

The After-Life Communication Plan is focused on 8 main actions:

- 1) distribution of dissemination material and of the operational handbook;
- 2) maintenance of project website and social media;
- 3) maintenance of the project e-mail contact;
- 4) participation in networking meetings with other European projects;
- 5) continuation of collaboration between partners and stakeholders;
- 6) updating of the database of vineyard farms that have implemented the project protocols;
- 7) participation in national and international scientific and technical events;
- 8) capitalization of the project results.

The After-Life Communication Plan is therefore aimed at illustrating how the LIFE ZEOWINE project partners will give continuity to the dissemination and communication activities developed during the project and how they intend to disseminate the results obtained in the 5 years following the closure of the project. The document contains a description of the future activities, tools and products that will be implemented by the project partners.

The dissemination activities carried out once the project is concluded will be based on the following objectives:

- furtherly disseminate the results of the project;
- maintain and strengthen the relationships established with end-users and stakeholders;
- strengthen cooperation with the LIFE project network, and other relevant National and EU initiatives/Programmes to develop new project or research;
- transfer the acquired know-how to other people.



4. TARGET AUDIENCE

The activities that are intended to be carried out after the conclusion of the project will be addressed to the following targets:

Potential end users: wine-growers, vineyard managers, vine nurserymen, table and wine grape farms managers

Professional operators: agronomists and experts of the wine and vine nursery sector

Scientific communities: researchers, students, scientific research groups and associations, academic institutions;

Technical communities: sector related technical groups and associations, environmental and agricultural associations, sector-related social parties such as associations of producers, trade unions, association representative of the viticultural sector;

Stakeholders: policy makers, local and regional authorities, National authorities in the wine and agricultural sector

General Public

5. ACTIONS

ACTION 1 - Distribution of dissemination material and of guidelines





DESCRIPTION

Each Partner will guarantee the dissemination of communication material for the target audience that will be distributed during events / fairs etc.

Events aimed at potential end-users, such as guided visits to treated plots will be organized by the partners with the aim of raising awareness on the impacts of sustainable viticulture by the use of ZEOWINE product and protocols.

Hard copies or digitalized copies of the 2 Guidelines (on Project USB Pen drives or via project website) will be furtherly distributed to new potential end-users or other interested targets.

Further Technical/scientific articles will be promoted based on the results of the project. In order to strengthen the dissemination of the activities carried out and the results of the project also to general public, a wide dissemination of the Layman report is expected.

RESPONSIBLE PARTNERS

All partners

TIMING

From 2022 to 2027

ACTION 2 – MAINTENANCE OF PROJECT WEBSITE AND SOCIAL MEDIA

LIFE ZEOWINE Project
105 Tweets

LIFE ZEOWINE Project
@zeowine

Life Zeowine: ZEOLite and WINery waste as innovative product for wine production

Pisa, Tuscany lifezeowine.eu Joined November 2018

73 Following 72 Followers

Tweets Tweets & replies Media Likes

LIFE ZEOWINE Project @zeowine · Dec 13, 2021
Presentazione del Progetto LIFE Zeowine al Convegno Finale Progetto LIFE GREEN GRAPES: Nuovi approcci per la difesa in una

Life ZeoWine

Ricerca · 8 follower

Progetto LIFE ZeoWine: ZEOLite e scarti della filiera vitivinicola come prodotto innovativo per le produzioni viticole

[Visita sito web](#)

2 follower nella tua rete

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Chi siamo

Annunci

Life ZeoWine · 8 follower

cosimo mastali · 11
Founder and CEO presso ONI200 science
Tua modifica · 1h

Today is #worldsoilday
Let's stop soil erosion to save our future

World Soil Day 2019 | Global Soil Partnership | Food and Agriculture Organization of the United Nations
10.org

Consiglia · Commenta · Condividi

Pagine affiliate

Link-Ups Project
Ricerca online · 45 follower

Life Green Grapes
Agricoltura · 8 follower

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life ZeoWine

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Zeolite e scarti viticoli come prodotto innovativo per le produzioni dei vigneti!

LIFE ZEOWINE

[Scopri di più sul progetto](#)

INDIVIDUARE e ATTRIBUIRE NUOVE AZIENDE IN SOLLECITA'

IL PROGETTO

LIFE ZEOWINE è un progetto con Finanziamento della Commissione Europea nell'ambito del Programma LIFE 2014-2020 - Environment & Partnership Efficiency.

Obiettivo del progetto di migliorare la sostenibilità e la gestione del suolo, il benessere della vite e la qualità dell'uva e del vino di consumo.

Applicazione al suolo di un nuovo prodotto innovativo denominato "ZEOWINE" derivante dal compostaggio di scarti della filiera vitivinicola a pellet.

[Scopri di più sul progetto](#)

LIFE ZEOWINE

<p>EL PROYECTO</p> <p>LIFE ZEOWINE è un progetto con Finanziamento della Commissione Europea nell'ambito del Programma LIFE 2014-2020 - Environment & Partnership Efficiency.</p>	<p>IL PROGETTO</p> <p>Obiettivo del progetto di migliorare la sostenibilità e la gestione del suolo, il benessere della vite e la qualità dell'uva e del vino di consumo.</p>	<p>LA PARTNERSHIP</p> <p>Il progetto LIFE ZEOWINE è un progetto innovativo che mira a migliorare la sostenibilità e la gestione del suolo, il benessere della vite e la qualità dell'uva e del vino di consumo.</p>	<p>LA SOSTA</p> <p>Il progetto LIFE ZEOWINE è un progetto innovativo che mira a migliorare la sostenibilità e la gestione del suolo, il benessere della vite e la qualità dell'uva e del vino di consumo.</p>
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<p>DESCRIPTION</p>
<p>P.Ri.Ma Forma, CNR and all project partners will maintain active for at least 5 years the project website and the social media pages:</p> <p>http://www.lifezeowine.eu/ https://twitter.com/zeowine?lang=it https://www.youtube.com/channel/UCQXDKO83TMFiyD8W8NK2MVw https://www.linkedin.com/showcase/life-zeowine</p> <p>Presentations made by partners on the occasion of organization or participation in events will be posted on the website as well as links to partners' web pages will be maintained.</p> <p>PDF versions of the updated files will be available on the website.</p> <p>The social media page and Youtube channel will be regularly updated in occasion of news, events, articles and relevant issues.</p> <p>Specifically the YouTube channel is the mean to continue the dissemination of videos realized by the project coordinator and partners.</p> <p>In particular, starting between March and June 2021, the following webinars have been realized, and the entire registrations are shared on the YouTube channel:</p> <ul style="list-style-type: none"> ➤ Life Zeowine Webinar Life Zeowine #1 (18/03/2021) - https://youtu.be/NMwwSFdaNr8 ➤ Life Zeowine workshop - Results of the 2nd year, online webinar (08/04/2021) https://youtu.be/LauWNY8D-s ➤ Life Zeowine workshop - Results of the 3rd year, online webinar(03/06/2021) https://youtu.be/QWCx3gfuSk0 <p>An oral presentation of the project in English language, realized by the project coordinator Grazia Masciandaro in occasion of the "Global Symposium on Soil Biodiversity 2021" – FAO - has also been shared on the project YouTube channel https://youtu.be/A266vzo5ecE</p>
<p>RESPONSIBLE PARTNER</p>
<p>P.Ri.Ma Forma and CNR In collaboration with all partners</p>
<p>TIMING</p>
<p>From 2022 to 2027 – at least on average 4 months base</p>

ACTION 3 - MAINTENANCE OF THE PROJECT E-MAIL CONTACT

lifezeowine@gmail.com



DESCRIPTION

P.Ri.Ma Forma and CREA will ensure the correct functioning of the project email lifezeowine@gmail.com and will use this address to provide information on the events and activities promoted by the project and also on request.

RESPONSIBLE PARTNER

P.Ri.Ma Forma and CNR

TIMING

From 2022 to 2027 – the email is consulted on a weekly base

ACTION 4 - PARTICIPATION IN NETWORKING MEETINGS WITH OTHER EUROPEAN PROJECTS





DESCRIPTION

Project partners will continue their networking activity developed during the project.

In particular, the collaboration with LIFE projects such as:

- LIFE14 ENV / IT / 000113 "HORTISED" (<http://lifehortised.com/>)
- LIFE16 ENV/IT/000566 - LIFE GREEN GRAPES (www.lifegreengrapes.eu)
- LIFE15 ENV/IT/000641 - LIFE SOiL4WINE (<http://www.soil4wine.eu/>)
- LIFE15 ENV/IT/000392 - LIFE VITISOM (<https://www.lifevitisom.com/>)
- LIFE17 ENV/IT/000347 "LIFE SUBSED" (<http://www.lifesubsed.com/>)
- LIFE17 ENV/IT/000269 "LIFE AGRISED" (<http://www.lifeagrised.com/>)
- LIFE19 ENV/IT/000035 - LIFE Drive (<https://www.drive-life.it/>)

And other project at national and European level, such as:

- PROSIT "Gestione sostenibile e valorizzazione dei territori viticoli" (TIMESIS and CNR-IBE)
- PROGETTO UVA PRETIOSA "Valorizzazione dei sottoprodotti della filiera viti-enologica" (Azienda Castello di Gabbiano)

and will proceed through participation in their events or eventual common events.

RESPONSIBLE PARTNER

All partners

TIMING

From 2022 to 2027

ACTION 5 - CONTINUATION OF COLLABORATION BETWEEN PARTNERS AND STAKEHOLDERS



DESCRIPTION

The collaboration between partners and stakeholders will continue also after the project end.

A permanent dynamic dialogue between the actors will be installed and maintained under the responsibility of both partners and associations/stakeholders.

The project involved since the proposal stage associations/networks at national and at a wider European level grouping and representing wine growers, professionals of the specific sector:

- 1) Regione Toscana – Assessorato Agricoltura
- 2) ALSIA – Agenzia Lucana di Sviluppo ed Innovazione in Agricoltura
- 3) Centro Analisi CAIM S.r.l.
- 4) Centro Lombricoltura Toscano
- 5) Consorzio del Vino Nobile di Montepulciano
- 6) Consorzio della denominazione San Gimignano
- 7) COL D'ORCIA S.r.l.
- 8) Fattoria di Montemaggio S.r.l.
- 9) Azienda Poggiotondo S.r.l.
- 10) Fattoria delle Ripalte
- 11) Tenuta di Bibbiano Società Agricola S.r.l.
- 12) Tenuta Fanti
- 13) Viveros Caliplant S.L.
- 14) Antinori Società agricola S.r.l.
- 15) Associazione Toscana Costitutori Viticoli -TOS.CO.VIT.
- 16) Azienda Agricola "Tenuta Santo Spirito di V.G."

The continuation of the relationship is expected to lead to elaboration of new



proposals by capitalizing on the contacts established during the project. Moreover, during the project development and dissemination events realized (live and online) it was possible to meet representative of a wider audience of potential stakeholders, such as:

- MIVA Moltiplicatori Italiani Viticoli Associati in Italy – association of vine nurseries;
- FIVI Federazione Italiana Vignaioli Indipendenti accounting for 800 wine growers
- ODAF Ordine dei Dottori Agronomi e Dottori Forestali which is the National Board of Agronomists which have recognized accredited training to webinars and events organized by the partnership, and has renewed interest in being informed about project applications
- MITE – Ministry of Ecological Transition, with participation of LIFE Contact point representatives to dissemination events

RESPONSIBLE PARTNER

CNR, UNIFI and P.Ri.Ma Forma
In collaboration with all partners

TIMING

From 2022 to 2027



ACTION 6 – UPDATING OF THE DATABASE OF VINEYARD FARMS THAT HAVE IMPLEMENTED THE PROJECT PROTOCOLS
DESCRIPTION
<p>Project partners, under the coordination of CNR, UNIFI and P.Ri.Ma Forma will monitor the further implementation of project protocols on behalf of other new vineyard farms.</p> <p>Since the end of the project:</p> <ul style="list-style-type: none"> - the testing of the 5% concentration by weight of zeolite in the ZEOWINE in order to fit the EU and the CE marking of organic recycled products and be classified as compost in the CMC 3 category, lead to the production of an additional composting cycle using zeolite at 5% by weight and winery wastes derived from 2021 harvesting and its application to a further 0,5 ha at CMM; - the support farm COL D’ORCIA declared that they have continued the application of the ZEOWINE product and protocols techniques on a further surface of 2,4 hectares using zeolite at 10% by weight and approx.. 90 tons of winery wastes derived from 2021 harvesting. <p>It is foreseen that the overall agricultural surface which will adopt the protocols of the project beyond 3-years will include:</p> <ul style="list-style-type: none"> - 12.7 hectares deriving from the prosecution of partners farms + - approx. other 23.5 hectares deriving from the widening of network of vineyard farms informed by project actions 5 years beyond project end. <p>Project partners will maintain an updated database with the evolution of these trends</p>
RESPONSIBLE PARTNER
<p>CNR, UNIFI and P.Ri.Ma Forma In collaboration with all partners</p>
TIMING
<p>From 2022 to 2027 – Yearly</p>

ACTION 7 – PARTICIPATION IN NATIONAL AND INTERNATIONAL SCIENTIFIC AND TECHNICAL EVENTS



APRIL 2022 - VINITALY



LIFE17 ENV/IT/000427



DESCRIPTION

Project partners will continue the dissemination of results at technical and scientific level participating with project presentations/scientific poster or abstract submission, technical or scientific article publications in national, European or International

contexts.
RESPONSIBLE PARTNER
All partners
TIMING
From 2022 to 2027

ACTION 8 - CAPITALIZATION OF THE PROJECT RESULTS
DESCRIPTION
<p>The project partners intend to capitalize on the results obtained through the presentation of further project proposals as part of thematic calls at national and European level.</p> <p>Project proposals, based on the results obtained from the LIFE ZEOWINE project.</p> <p>The objective is to deepen some technical results of the project, to transfer the acquired know-how to the European level in order to ensure the replicability of the results for other aspects of defense in viticulture and aspects relating to biodiversity, waste recycling and soil improvement.</p>
RESPONSIBLE PARTNER
<p>CNR, UNIFI and P.Ri.Ma Forma</p> <p>In collaboration with all partners</p>
TIMING
From 2022 to 2027

6. BUDGET FOR AFTER-LIFE ACTIVITIES (PERIOD 2022-2027)

An effective After-Life Communication Plan should guarantee the dissemination of the project results, with a reduced contribution in money and human resources, while at the same time guaranteeing collaboration between the partners.

The costs to be incurred for the activities carried out after the closure of the project will be fully borne by the partners. An estimate of the expenses necessary for the planned activities in the period 2022-2027 is shown in the 2 tables below:

SPECIFIC OTHER COSTS AND PERSONNEL COSTS CONSIDERED FOR DISSEMINATION

ACTIONS	Cost in Euro	Partner involved	Funding resources
1) distribution of dissemination material and of the operational handbook	3.000	All partners	Partners own funds (printed copies of different dissemination materials is already available at the end of the project)
2) maintenance of project website and social media;	2.000	P.Ri.Ma Forma and CNR In collaboration with all partners	Staff costs for partners for providing updates + yearly fee for web hosting
3) maintenance of the project e-mail contact;	500	P.Ri.Ma Forma, CNR and UNIFI	Partners own funds
4) participation in networking meetings with other European projects;	3.000	All partners	1.000 CNR 1.000 UNIFI 1000 Other partners
5) continuation of collaboration between partners and stakeholders;	6.000	CNR, UNIFI and P.Ri.Ma Forma In collaboration with all partners	Partners own funds 1500 CNR 1500 UNIFI 1500 P.Ri.Ma Forma 1500 Other partners
6) updating of the database of vineyard farms that have implemented the project protocols;	4.000	CNR, UNIFI and P.Ri.Ma Forma In collaboration with all partners	Partners own funds 1.000 CNR 1.000 UNIFI 1.000 P.Ri.Ma Forma 1000 Other partners
7) participation in national and international scientific and technical events;	7.000	All partners	1500 CREA 1500 UNIFI 1500 CUT 1500 Other partners
8) capitalization of the project results.	4.000	CNR, UNIFI and P.Ri.Ma Forma	Partners own funds 1.000 CNR



		In collaboration with all partners	1.000 UNIFI 1.000 P.Ri.Ma Forma 1000 Other partners
Total	29.500		

	In 3 years	Per year
OTHER COSTS FOR DISSEMINATION AND NETWORKING	8.000,00 €	2.666,67 €
COST PER HECTARE ZEOWINE 6,820 * 4,2 CMM	28.644,00 €	9.548,00 €
STAFF COST (1300 DAYS PER € 120,00 PER DAY)	156.000,00 €	52.000,00 €
TOTAL	192.644,00 €	64.214,67 €

INFORMATION AND REPLICABILITY

All the material produced within the project **LIFE ZEOWINE** useful to know and replicate protocols can be found in the website (www.lifezeowine.eu) and on social channels. In particular you can find:

GUIDELINES FOR THE APPLICATION OF ZEOWINE PROTOCOLS, practical consultation tool for vineyard

managers and winegrowers who are ready to develop their environmentally sustainable approach

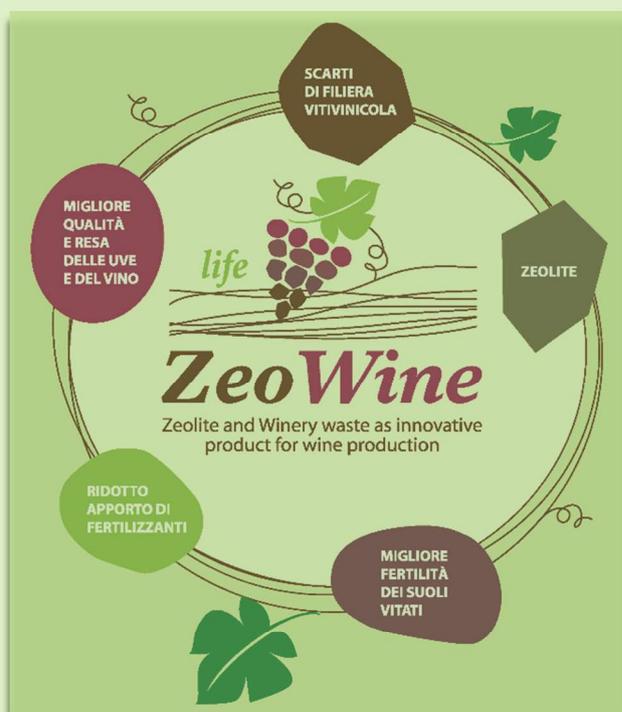
vineyard soil management with a strong environmentally sustainable approach
<https://www.lifezeowine.eu/deliverables/>

- **Articles and press releases** related to the project implementation and future activities
<https://www.lifezeowine.eu/publications/>
- **Informative and training videos**
<https://www.youtube.com/channel/UCQXDKO83TMFiyD8W8NK2MVw>
- **Contact email** lifezeowine@gmail.com



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