



**LIFE15 ENV/IT/000641**

**After-LIFE Plan**

*Sub-action E1.2 "After-LIFE Plan"*

**LIFE+ PROJECT Soil4Wine**

**SOIL<sup>4</sup>**  
**WINE**



UNIVERSITÀ  
CATTOLICA  
del Sacro Cuore

**HORT@**  
From research to field



**VINIDEA**

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### 1. Soil4Wine project

LIFE15 ENV/IT/000641 SOIL4WINE project aims to improve soil health in vineyards through enhancement and protection of soil functions, ecosystem services and sustainability of whole vineyard ecosystem.

Project outcomes will be the definition and validation of best soil management practices integrated in a Decision Support System (DSS), as well as the identification of methodologies aiming at the evaluation and payment of soil-related ecosystem services.

#### Main objects:

- Guidelines for best soil management practices aimed to reduce main soil threats impacts.
- Increase of soils' quality in demo farms: organic matter +10%, aggregate stability in water and soil biodiversity (QBS-ar) +50%, soil compaction - 10%, soil nitrates -25%.
- Definition of a Decision Support System (DSS) for farmers self-evaluation of soil threats and choice of best solutions.
- Data on effectiveness and feasibility (in technical and economical terms) of proposed innovative solutions.
- Evaluation (in physical and monetary terms) of soil ecosystem services and indirect effects on landscape value of proposed solutions in the project area.
- Feasibility study of Payment for Ecosystem Services (PES) to ensure sustainable financing for soil conservation and protection solutions.
- Participatory and promotional approach for involvement of stakeholders in the transfers of project outcomes.

## 1. Main results at the end of the project

- Development of DSS for vineyard soil quality assessment and definition of best mitigation options.
- Demonstrative activities in 10 vineyards of "Parchi del Ducato" have included:
  - green manure vs spontaneous permanent grassing
  - green manure vs tillage
  - sown grassing vs spontaneous permanent grassing
  - soil drainage
  - mulching under the rows of biomass produced by cover crops grown in mid-rows.
- Increase of soil biodiversity (+33% QBS-ar, + 20% earthworms), reduction on soil nitrates (-13%), increase of soil aggregate stability (+8%)
- Evaluation in physical and monetary terms of 5 soil ecosystem services for 9 farms.
- 4 feasibility studies of Payments for Ecosystem Services (PES) to ensure sustainable financing of soil conservation and protection solutions.

## 2. Strategy for implementation of project results in the After-LIFE phase

### • *Decision tool:*

The Decision tool developed during the project will be available either as a stand-alone version and as a tool of the DSS vite.net. Registered users will have free access to the decision tool.

HORTA has already identified elements for tool improvement and future activities regarding this issue have been included in a project proposal submitted to call H2020-SFS-2018-2020 (Sustainable Food Security) Topic: SFS-04-2019-2020

### • *Demonstrative activities in demo farms*

Demo farms networking will be maintained by HORTA.

After meeting with farmers some of them have accepted to maintain demonstrative actions (Res Uvae "RES", as foreseen in the project proposal; Az. Agr. La Pagliara "VT1"; Az. Agr. Barbuti Giuseppe "SP1"; Az. Agr. Monte delle Vigne "TBC1").

In those farms HORTA will take care of the maintenance of weather stations and demonstrative activities will go on according to first or renewed Action Plans. Cover crops will be maintained also in demonstrative vineyard in Res Uvae farm. Demonstrative action will be maintained for at least 3 years and, in the end, soil analysis will be made to assess medium-period effects. Results will be implemented in decision tool.

Periodic check of weather stations	Demo farms	1 man/day per year	HORTA
Soil analyses	Demo farms	2 man/day + 800€ for soil analysis	HORTA

### • *Stakeholders involvement*

- Presentation of decision tool and "Regulation for Logo use" to new community leaders of Lugagnano, Carpaneto and Castell'Arquato municipalities (Piacenza Province) and involvement of new farms for Regulation adhesion;

- presentation of decision tool an "Regulation for Logo use" to farm located in MAB APPENNINO TOSCO – EMILIANO (<http://www.mabappennino.it/>);
- support to ART-ER for dissemination/adoption of PES in community of Parchi del Ducato area and surrounding municipalities.
- **Social, economic and policy evaluation of ecosystem services**

Diffusion of PES and integrated policies to public authorities	Emilia-Romagna Regional Authority, parks, municipalities	5 man/day per year	ART-ER
Follow up of tested PES (logo use, tourist tax)	1 PES	7 man/day per year	ART-ER, Horta, UCSC
Cooperation with credit institute for the development of a financial tool aimed at sustainable farmers	1 tool	2 man/day per year	ART-ER, UCSC

### 3. Dissemination during the project: activities and results

- **Website and Facebook page:**

Project specific WebPages in four languages (EN, IT, ES, FR) were created and kept updated ([www.soil4wine.eu](http://www.soil4wine.eu)). They show project objectives, actions planned, main activities and information about consortium composition demonstrative vineyard and farms features, main results of the project. The project webpages were interfaced with the internet journal site “Infowine”, so all the news and other information related to the project appear simultaneously on [soil4wine.eu](http://soil4wine.eu) and [infowine.com](http://infowine.com), greatly increasing visibility of contents posted. Since the website was launched, it reached the auditory of 6.500 unique visitors and 23.702 total number of views.

Facebook page was also opened (<https://www.facebook.com/Soil4Wine-Life-322068778239319/>) and regularly updated by UCSC. At the end of the project page has 238 followers.

- **Webinars and on-line videos**

#### Digital seminars

Two webinars were held in October 2019 in Italian and English, aiming to deliver the project results to Italian and international stakeholders.

- Innovative and interactive tool for the soil management in viticulture (Speaker: Sarah Elisabetta Legler, Horta srl; 46 participants)
- Sustainable viticulture and ecosystem services: an opportunity for agricultural enterprises and the environment (Speaker: Alessandro Bosso, ART-ER; 33 participants)

The recordings of webinars of the Soil4Wine online training course are available in IT and EN on the project’s website.

#### Online video

Oral presentations of seminars held during the special session devoted to the project at Enoforum congresses (May 2017, May 2019) were recorded and dubbed. The videos of seminars are available on the project webpages and internet journal Infowine website in Italian and English languages:

- *Chemical, physical and biological characteristics of vineyard soil* (1861 views in IT; 570 views in EN)
  - *Modulate vigor, productivity and grape quality through soil management* (1333 views in IT, 301 views in EN)
  - *Managing and protecting soil in the vineyard: experience of the Soil4Wine LIFE+ project* (328 views in IT, 78 views in EN)
  - *An innovative and interactive tool for soil management in viticulture* (107 views in IT, 50 views in EN)
  - *Wine for soil: an example of a green economy* (110 views in IT, 65 views in EN)
- **Congress/workshops:**
    - 2017:**
      - Dedicated session at Enoforum 2017 (Vicenza, Italy, ~ 1000 participants)
      - Project presentation on 1<sup>st</sup> March 2017 during the event “I mercoledì dell’archivio” organized by the Cartographic Archive of the Emilia – Romagna Region Sonia Anelli (EGPB)
    - 2018:**
      - Poster at Enoforum 2018 (Zaragoza, Spain, ~ 500 participants)
      - Poster at “Quercetina e vino” conference (July 2018, Montalcino, Italy, ~ 190 participants)
    - 2019:**
      - Dedicated session at Enoforum 2019 (Vicenza, Italy, ~ 1200 participants)
      - Participation at "La Terra è Madre del Vino" (June 2019, Rivergaro (PC), Italia, ~ 80 participant)
      - Final conference Soil4Wine (December 2019, Piacenza, Italy, ~ 80 participants)
  - **Fairs:**

<i>Fairs name</i>	<i>Date and venue</i>	<i>Number of participants</i>	<i>Involved partners</i>
Ecomondo	Rimini, 2018-2019	N/A	ART-ER
Mostra dei Vini (FIVI)	24/25th November 2018: Piacenza	18.500	EGPB, UCSC, VIN
La terra è madre del vino	8th June 2019: Rivergaro (PC)	50	UCSC, ART-ER, HORTA, VIN
Borgofood	4/6th October 2019: Fidenza (PR)	150.000	EGPB, HORTA
Vini di Vignaioli	3/4th November 2019: Fornovo Taro (PR)	> 2.000	EGPB, HORTA

- **Networking activities:**

- Detailed scouting of projects related to soil management and protection was performed in M4-M5
  - Some of the projects (VITISOM LIFE15/ENV/IT/000392; PROVITERRE PSR 16.01.1 n. 5004519; WINETWORK H2020 ISIB-02-2014 n. 652601) participated together with Soil4Wine to Enoforum
  - One of the demo farms (Res Uvae) is included in the inventory of demonstrative activity of PLAID Project (H2020-RUR-2016-2727388)
  - Soil4Wine project activity was explored as a case study of the AgriLink project (H2020-RUR-2016-2 -727577) (April-November 2018)
  - Contributions were sent to Pillar-1 of the European Soil Partnership (April 2018)
  - Contributions were sent to EU Pollinators initiative (April 2018)
  - Contacts were also established with the following projects: ADVICLIM (LIFE13 ENVFR/001512), SOS4LIFE (LIFE15 ENV/IT/000225), LIFE HELPSOIL (LIFE12 ENV/IT/000578), RESOLVE (ERA-Net CORE Organic Plus No. 618107)
  - Networking activity with other LIFE projects organized by CREA - Agricultural Research Council at the pavilion of the Ministry of Agriculture and Tourism during Vinitaly (April 2019, Verona, Italy, participating projects: SOIL4WINE, VITISOM, LIFE GREEN GRAPES, ZEOWINE)
  - Networking session during the Final conference of the SOIL4WINE Project “Viticulture, soil and ecosystem services: projects in comparison ”December 2019, Piacenza, Italy). Invited projects: LIFE SOS4LIFE - LIFE VITISOM - LIFE GREENGRAPES - PROGETTO BIOVINE - PROGETTO INTERREG DELTA LADY
- **Papers**
    - 1 paper on Web magazine (Europafacile) and newsletters (Infowine)
    - 1 paper on Pianeta PSR Journal (Ministero delle Politiche Agricole, Forestali e del Turismo) (May, 2019).
    - 1 paper on sectorial journal: Informatore Agrario (January, 2020)
  - **Newsletter:**

Four dedicated e-mailings were performed in four languages (EN, IT, ES, FR) using the InfoWine database (21.430 stakeholders). 5 supplementary e-mailing were performed in IT for Italian stakeholders in order to promote other dissemination activities, such as DemoDays, webinars, field trip and Final project conference.

- **Flyers and Gadgets:**

<i>Flyers</i>	4000 copies in IT and 2500 copies in EN
<i>Roll - up</i>	4
<i>pencils and pens with Soil4Wine and LIFE logos.</i>	4200
<i>Notebooks</i>	4250
<i>Pins</i>	6.000
<i>Gazebo</i>	1
<i>Erbolino (a sort of small vase with inside seeds “ready to growth”)</i>	300

- **Layman's report:**

Layman's report with general information and main results of the Soil4Wine project is available on project websites (in IT and EN),

#### 4. Dissemination After-Life

Tools/activities	Who?	Activities	Goal	Budget
<b>Website and Facebook page</b>	VIN	Maintenance of the project website, focusing on the main outputs of the project (Decision support tool and regulation and methods of quantification of ecosystem services). Mirroring of all the materials on the Online Magazine Infowine will be continued.	Uploading of all the materials produced after the end of the project and allowing the continuous access to the decision support tool	€ 500 x 5 years
	EGPB	Addition of information about Soil4Wine on Agency website (with contact of farms that will join Logo policy)	Increase the visibility of "virtuous" farms.	€ 1.000,00 + 15 hours per 3 years
<b>Congress and workshop</b>	EGPB	Participation in (at least) 2 local fairs/festivals	Enhance the awareness among stakeholders on the availability of the tools	€ 3.000,00 + 50 hours per 3 years
	ART-ER	Presentation of DSS at Ecomondo fair		4 man/days for year
	HORTA	Presentation of DSS at workshop and seminars	Enhance the awareness among stakeholders on the availability of the tools	2 man/days for year
<b>Dissemination activities</b>	VIN, UCSC, ART-ER, HORTA	Inclusion of the oral presentations dedicated to the project results held by the project partners in the scientific conferences organized by Vinidea	Enhance the awareness among stakeholders on the availability of the tools generated by the project and of the content of the dissemination pack	1500 € x session
	HORTA	Organization of 1	Enhance the	2 man/days for

		DemoDay for year (2020-2021-2022) on Soil4Wine project topics and DSS tool.	awareness among stakeholders on soil health the availability of the tools	year
<b>Papers</b>	UCSC	1 paper on International Journal	Presentation of main results of Soil4Wine activities	2000€
<b>Notice board</b>	HORTA	Maintenance of notice boards in ongoing demonstrative vineyards.	Enhance project visibility	
<b>Flyers e Gadgets</b>	VIN	Distribution of remaining flyers and gadgets during seminars organized by Vinidea	Increase the awareness of the general public about the project	