

**GREEN VINEYARDS**

**TRANSFERABILITY TOOLKIT**

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## MORE INFO AND CONTACT

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## EXECUTIVE SUMMARY

“**Transferability Toolkit**” is the fourth output of the Project Green Vineyards (Upskilling wineries staff: Responding to the challenges of climate change - 2021-1-ES01-KA220-VET-000033311), funded by the Erasmus+ Programme of the European Union. Green Vineyards is an action aimed at contributing to identifying the environmental competences required by wine sector workers to ensure a positive ecological footprint of the activities carried out in this primary sector industry.

The Green Vineyards Transferability Toolkit aims to help farmers, learners, trainers, stakeholders, and institutions interested in the field of green competences in the Wine sector to apply the Course produced by the project. It is essentially a ‘User Manual’ that provides Guidelines, procedures, tools and examples to support the successful transferability and use of the output within organizations and individuals (including how project partners aim to spread project results into their organizations, among staff and among their customers/users).

This project result is a packaged version of the Training Experience (open course and learning hub) and contains:

- ❖ guidelines on how to access and implement the course and exploit the Learning Hub;
- ❖ guidelines for individual learners who want to access the course independently, as a non-formal activity;
- ❖ guidelines for intermediaries (training centres, associations, etc) to embed the Course into their training or information activities;
- ❖ recommendations for future course improvements based on the piloting evaluation.

The toolkit is available as a PDF version at [www.greenvineyards.eu](http://www.greenvineyards.eu) .

## INTRODUCTION

In 2019, the EC European Green Deal Communication openly stated that tackling climate and environmental-related challenges is the defining task of this generation. With the goal of transforming the EU economy for a sustainable future, the Green Deal was described as the new growth strategy that aimed to transform the EU into a fair and prosperous society with a modern, resource-efficient, and competitive economy.

Without a workforce to support it, however, an economy based on such sustainable initiatives cannot be achieved. It is important both to prepare the workforce at large for the skill requirements inherent in green jobs and to ensure that wine industries and workplaces do not face a shortage of adequately skilled workers. There is a breadth of skills needed to meet these ambitious objectives. Proactive reskilling and upskilling are therefore necessary to reap the benefits of the aforementioned ecological strategy.

The Green Deal communication itself also stressed the necessity of a European competence framework which helps to develop and assess knowledge, skills, and attitudes on climate change and sustainable development. Agriculture both contributes to and is affected by climate change.

The EU is committed to reducing greenhouse-gas emissions from agriculture and adapting its food-production system. In 2016, agriculture still accounted for 10% of the EU's total greenhouse-gas emissions, consuming approx. 2% of global energy demand, and accounting for 38% of land use, contributing significantly to GHG emissions (FAO (n.d.), FAO et al. (2014), White (2016)).

In this context, the wine sector cannot be left behind. The EU is the world's leading producer of wine, accounting for 45% of wine-growing areas, 65% of production, 57% of global consumption, and 70% of exports. It contributes substantially to the agricultural sector, having a major impact on the rural environment and providing employment to millions of people in the EU. The wine sector has thus created 5

values for local communities and guaranteed the subsistence of populations in vulnerable rural areas with little or no other economic alternative.

This is why environmental competences (both knowledge-based and technical in nature) are essential for the wineries workforce and surrounding societies to ensure a positive ecological footprint of the activities carried out in this farming sector that contributes to the ambitious objectives.

The Transferability Toolkit, by using the knowledge, feedback, and lessons learned through the Pilot Test phase, aims at facilitating future users' better experience and providing recommendations to potential adopters of the training initiative for an effective implementation of the course. In addition, it gives clear guidelines and procedures about how the course and tools can be accessed and used, in order to support a successful transferability of the overall project.

## TRANSFERABILITY TOOLKIT

The TRANSFERABILITY TOOLKIT, -this handbook- is the fourth output of the Project Green Vineyards (below GV). It contains guidelines on how to access and implement the course (the Green Vineyards Learning Hub) and suggestions on how to use it, as an individual non-formal activity or as training or information activity.

The Toolkit is intended for use primarily by farmers and training providers who wish to include environmental issues in their vineyard and winery management practices.

It's essentially a 'User Manual' that provides Guidelines, procedures and suggestions to support the successful transferability and implementation of the knowledges and environmental awareness within wine workers and farmers.

Its main objectives are:

- 🌿 to inform Toolkit potential users about the GV project and results, and introduce them to the Green Vineyards Learning Hub and tools;
- 🌿 to help users access the good practice cases in the GV course and learn from successful examples;
- 🌿 to inform potential users (both individual and associations) about the potential of the course in terms of content and in terms of applicability;
- 🌿 to show users how to design, set up and deliver a successful training project;
- 🌿 to provide advice on how to adapt good practice cases to suit their context and needs.



## **GREEN VINEYARDS RESULTS**

Green Vineyards is an action aimed at contributing to identifying the environmental competences required by wine sector workers to ensure a positive ecological footprint of the activities carried out in this primary sector industry.

All the results of Green Vineyards project can be found here:

**[www.greenvineyards.eu/results/](http://www.greenvineyards.eu/results/)**

# GREEN COMPETENCES & SUSTAINABLE PRACTICES FOR WINE SECTOR

## What is it?

This project output presents a set of **successful cases** of sustainable practices in wine contexts, connecting them to an original competences framework and underlying, for each practice what **competences** are stressed in order to successfully **replicate it in their own contexts**.

The main aims of the Green Vineyards Competence Framework are to:

1

Identify and define the competences necessary to **ensure the sustainability** of the activities carried out in this wine sector

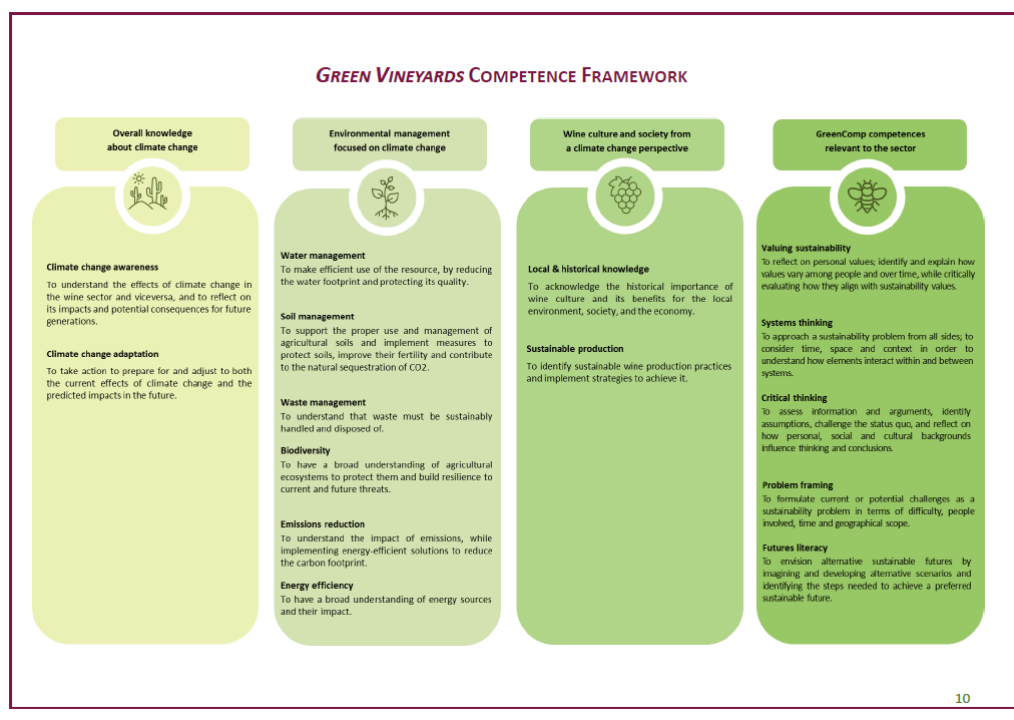
2

Provide a European **reference tool** for policymakers, education and training providers, educational staff, guidance practitioners, employers, public employment services, and learners.

3

Support efforts at the European, national, regional, and local level to **foster lifelong learning** from a sustainable perspective.

This guide contains a **dedicated competence framework** while it identifies and collects best practices from all over Europe, after having consulted with sector main stakeholders.



## Why use it?

For **individuals**, the guidelines give examples about creative and engaging ways to learn how to apply sustainable practices to wine related scenarios, for example reducing water consumption, or managing soil or water.








For **teams/institutions**, the Guidelines can be used on its own or in combination with other resources to build capacity and foster awareness in staff as to the benefits that accrue from adopting sustainable skills in daily tasks.

## Where to next?

Wineries staff need to start from their daily tasks in order to find ways in which they can share, collaborate and **improve their sustainability**, and this must be accompanied not so much by new competencies but rather by a mindset shift.

All 22 practices follow the same structure to facilitate the practice understanding and to enhance its transferability and replicability potential:

- Practice implemented by: **who** is currently implementing the practices.
- **Description** of the practice: overall description, with details and characteristics
- **Impact** observed: The outcomes obtained by the practices, explained by their implementers.
- To know more...: where to find **further information**

Castello Monte Vibiano	
 Location	Italy
 Competences	Climate change adaption, soil management, energy efficiency, waste management, emission reduction, biodiversity, local & historical knowledge, sustainable wine production, futures literacy, problem framing, valuing sustainability.
 Keywords	Biodiversity, No emission, transparency, responsibility
 Description	The Monte Vibiano castle stands at the centre of the Fasola estate on the Perugia's hills. The farm produces high-quality oil and wine. In 2009, it was awarded "zero CO2 emissions" certification (DNV UNI ISO 14064). It was the first Italian company to do so. The agricultural surface area used is about 40 percent of the total, while more than 30 percent is dedicated to plants and ecological areas. To be more and more sustainable from the farm's point of view, even the packaging materials have been revised, and only electric vehicles and bicycles are used within the estate. The farm also offers tasting services and bicycle tours to pass on its values to citizens.
 Objectives	The company aims to increase the environmental sustainability of wine and oil production. It also offers various initiatives to involve the consumers and convey to them the values of protecting the land and the environment itself.
 Tools	The company offers its products in two modalities: <ul style="list-style-type: none"> <li>• On-site tasting</li> <li>• On-line store</li> </ul> In addition to this, it is possible to visit the estate using the company's electric cars or via bicycle routes with guides provided by the company itself. In addition, visitors may also experience grape harvesting and olive picking.
 Additional information	<a href="https://montevibiano.it/">https://montevibiano.it/</a>

## Where is it?

The document has been drawn up in English, and an executive summary is translated into the 5 languages of the partner countries: Spanish, French, Italian, German and Macedonian

### GREEN COMPETENCES & SUSTAINABLE PRACTICES FOR WINE SECTOR



*Click on the flag to access the translated contents*

## ENVIRONMENTAL COURSE MODULES & CONTENTS

### What is it?

“Environmental Course Modules & Contents” is the **second output** of the Green Vineyards Project.

This project result collects all the contents created by the project consortium to address the **competence framework** created as the first project result. The primary goal of this course content is to be the grassroots of the future learning experience that, with the help of a **learning management system**, will be made available to wine sector workforce.

This document collects the methodology and process followed to achieve the Green Vineyard **course structure and content**. Prerequisites, challenges, and goals are also described, arriving to the final course content.

### About the structure

The course was meant to be **non-linear**, allowing units to be taken in any order or perhaps not taken at all. This provides numerous ways to navigate the content, allowing students to tailor their learning experience to their specific requirements. The course is designed for individual study, allowing participants to learn at their own pace. No teacher, coach, or learning buddy is required for its implementation.

The course is composed of **4 modules**, which together comprise a total of **13 training units**. Every unit is divided in **three levels of depth**, together with many audiovisual resources (videos, podcast, etc), case-studies and self-assessment tests.

It is tailored to accommodate a wide range of target groups in the wine sector encompassing workers, managers, owners and employees in the vineyard or agriculture sector. An alternative and successful strategy involves providing specific learning pathways customized to meet the individual requirements of

different target groups. The course content is also disseminated in an open format on the project website. Once the Learning Management System was launched, an interactive version of this material has been developed and openly distributed in the same webpage, including a careful selection of the external learning material.

### Why use it?

For **Wineries/institutions**, some or all of the course curriculum and content can be used in its current form, on its own or in combination with other Green Vineyards resources, to build capacity and foster awareness in staff as to the benefits that accrue from adopting Sustainable Knowledge in daily tasks. As this resource is text-based some or all of this resource can easily be used in and/or adapted for different contexts. The course curriculum and content can be reworked under a **Creative Commons Attribution-NonCommercial-ShareAlike (CC-BY-NC-SA) licence**.

For **individuals**, this resource provides a series of non-linear modules relating to Sustainability that are based on engaging real-world open practices. However, we would direct individuals interested in this area to the interactive [online course](#).

### Where to next?

This content is delivered as OER so everybody can use it or take parts of it. As an example, although activities are intended to be developed individually, a **group of workers** could work in any of the activities collaboratively, both face to face or online, to have a common understanding, discussion or designing a learning experience for students.

The main goal of this document is to compile the developed content on **'green knowledge'** in order to allow any person to use it as they better judge, as well as to feed the course, the Green Vineyards Course. However, to allow other

stakeholders to use this content further than the online tool, the result includes some **pedagogical guidelines** or suggestions.

### **Going even further**

The course was designed as **non-linear**: Modules can be taken in any order and even could be not taken. This offers many individual paths through the material and different trainees can have their own learning experience, according to their needs. Since this information is a building block, this richness is not shown in the document, but it is highlighted in the online learning experience and can be adopted if any reader reuses this information in any other delivery format.

The course is designed to be taken **individually**, adapting the progress to the individual advance. In its conception, no teacher, coach or learning buddy are needed, although it could be used in many other scenarios.

This course content is distributed in an open form on the project website. However a better experience can be obtained through the open online course, an interactive version of this material that is also openly distributed in the same webpage, including a careful selection of the external learning material.



## Where is it?

The document has been drawn up in **English**, and an executive summary is translated into the 5 languages of the partner countries: Spanish, French, Italian, German and Macedonian

This output is composed of the **didactic guide and an annex**, where the contents are actually found.

### Environmental course didactic guide



*Click on the flag to access the translated contents*

### Environmental course content (annexes)



*Click on the flag to access the translated contents*

## GREEN VINEYARDS LEARNING HUB

### What is it?

“GREEN VINEYARDS” LEARNING HUB is the third output of the Project Green Vineyards, available at <https://greenvineyards.eu/training/>.

It consists of an **open learning portal hub** (Moodle system) composed of different tools: didactic units (14 units, available in 6 different languages- 13 didactic units and a unit 0 introducing the course); a self-assessment tool; link to multimedia in-depth Learning Materials.

### Technical description

The GV course is hosted in a Moodle platform.

Moodle is an **Open Learning Management System** (LMS) designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalized learning environments.

With hundreds of thousands of learning environments around the world, Moodle is used by numerous institutions and organizations large and small. Moodle's worldwide academic and corporate numbers make it the most widely used learning platform in the world.

Moodle is a platform that is easy to use both by the training and by the learner.

This means that teachers or course managers can use the platform to upload content and documentation, as well as to track student progress and monitor activities and attendance. Likewise, learners can access the platform to follow lectures, download materials, take tests or papers, and participate in discussions.

This educational experience runs online, so that you just need a stable Internet connection to be able to do it. You can use any of the **most frequent web browsers**, such as Chrome, Firefox or Edge, in any of the most commonly used operative

systems: Windows, Linux or Mac. Make sure that your web browser is updated. No special requirements about memory are established.

An e-mail for technical support [transfer.ict@unir.net](mailto:transfer.ict@unir.net) is at disposal for all users to solve technical problems.

### Why use it?

For **individuals**, going over the course provides a creative and engaging way to learn how to apply knowledge about sustainability on the wine sector, for example reducing waste in wineries production

For **wineries/institutions**, the course can be used on its own or in combination with other Green Vineyards resources to build capacity and foster awareness in staff as to the benefits that accrue from adopting green skills in daily tasks. The course can be reworked under a Creative Commons Attribution-NonCommercial-ShareAlike (CC-BY-NC-SA) licence. Should you want to use the game engine for any other educational purposes, please contact [research.ict@unir.net](mailto:research.ict@unir.net).

### How to access the Learning Hub

The course can be accessed:

- Through the Green Vineyards website:

<https://greenvineyards.eu/training/>

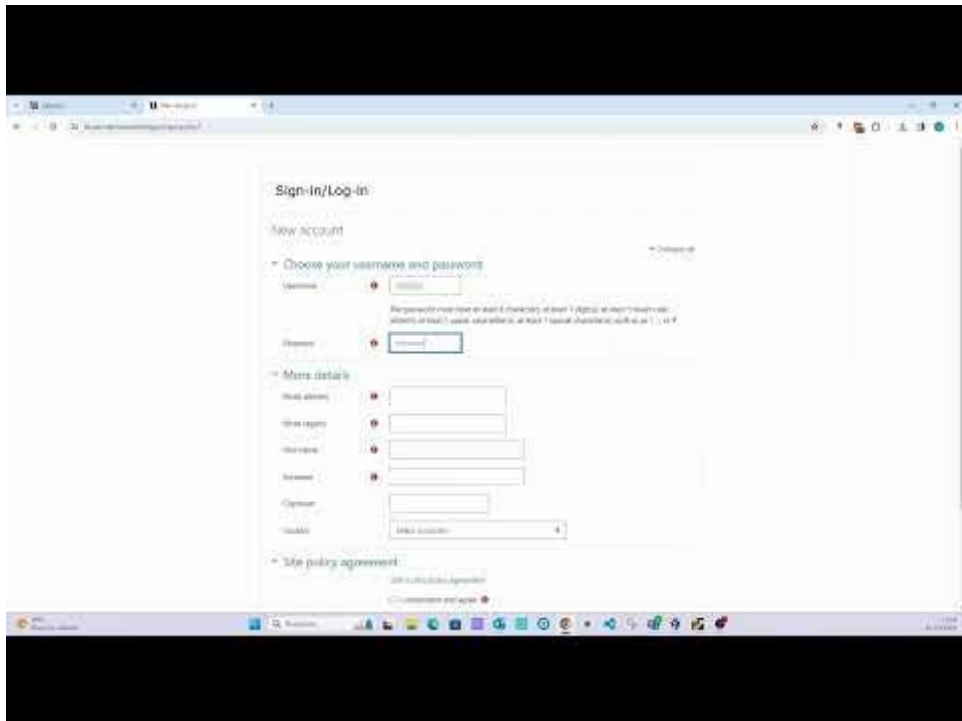
- Scanning the following QR code



The Hub is very simple to access, and it requires **few technical** skills.

Several tools have been made that explain step by step how to register the course and move around the platform:

Please **watch** this video, to learn how to access the course, in an easy and practical way. (required only as a first login)



[How to access to Green Vineyards course](#)

**Read** this PDF document [INSTRUCTIONS FOR ACCESSING THE "GREEN VINEYARDS" COURSE](#), where you will find the description, step by step, of how to access and how to use the platform

In addition, project's partners have translated or produced additional material to inform potential users and to support them in using the platform and improve their "green" competences in the wine sector.



[Technical support](#)



[Flyer & Instructions](#)

[Paths](#)

[Video](#)



[ANLEITUNG ZUR ANMELDUNG ZUM KURS](#)

Landing page in German with explanations

[Download link](#)



[Instruction](#)

[Paths](#)

[Video](#)



[ИНСТРУКЦИИ ЗА ПРИЈАВУВАЊЕ НА КУРСОТ](#)

## What you can find

While entering the course page, although the course has been created starting from a modular structure (13 units, referring to 4 modules, which recall 4 competences areas), the page presents all 13 didactic units in sequence, in numerical order, so that each user can access independently and according to their pattern the units they are interested in.

The course consists of:

- a **UNIT 0**, that is a brief introduction (text and video) to the course structure and a presentation of different level of knowledge and tools.



- **4 learning paths**, i.e. 4 proposals to address different needs, where you will have the flexibility to choose your own path. These paths are structured taking into account the possible needs of different kind of workers or interests in the vine sector:
  - **Sustainable winegrowing** (more addressed to workers in the field, in viticulture)
  - **Sustainable winemaking** (more addressed to workers in the winery)

- **Environmental management in the wine industry** (more addressed to workers and managers, production side)
- **Sustainable winery management** (more addressed to workers and managers, general management side)

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## SUSTAINABLE WINEGROWING

UNIT 1: CLIMATE CHANGE AWARENESS

UNIT 2: CLIMATE-ADAPTIVE WATER MANAGEMENT

UNIT 3: CLIMATE-ADAPTIVE WATER MANAGEMENT

UNIT 4: SOIL MANAGEMENT IN WINERIES

UNIT 5: BIODIVERSITY AND AGROECOLOGY

UNIT 9: LOCAL & HISTORICAL KNOWLEDGE

Whether you're a worker, a manager, or a business owner in a winery this learning pathway is tailored for you. Embrace the opportunity to gain practical skills in sustainable winery management.

<https://greenvineyards.eu/>

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## SUSTAINABLE WINEMAKING

UNIT 2: CLIMATE CHANGE ADAPTATION

UNIT 6: ENERGY EFFICIENCY MANAGEMENT

UNIT 7: REDUCTION OF GREENHOUSE GAS EMISSIONS

UNIT 8: MANAGEMENT OF WASTE AND BY-PRODUCTS

UNIT 10: SUSTAINABLE PRODUCTION

Whether you're a worker, a manager, or a business owner in a winery this learning pathway is tailored for you. Embrace the opportunity to gain practical skills in sustainable winemaking.

<https://greenvineyards.eu/>

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## ENVIRONMENTAL MANAGEMENT IN THE WINE INDUSTRY

UNIT 3: CLIMATE ADAPTIVE WATER MANAGEMENT

UNIT 4: SOIL MANAGEMENT IN WINERIES

UNIT 5: BIODIVERSITY AND AGROECOLOGY

UNIT 6: ENERGY EFFICIENCY MANAGEMENT

UNIT 7: REDUCTION OF GREENHOUSE GAS EMISSIONS

UNIT 8: MANAGEMENT OF WASTE AND BY-PRODUCTS

Whether you're a worker, a manager, or a business owner in a winery this learning pathway is tailored for you. Embrace the opportunity to gain practical skills in environmental management in the wine industry.

<https://greenvineyards.eu/>

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## SUSTAINABLE WINERY MANAGEMENT

UNIT 1: CLIMATE CHANGE AWARENESS

UNIT 10: SUSTAINABLE PRODUCTION

UNIT 11: VALUING SUSTAINABILITY

UNIT 12: INDIVIDUAL PERSPECTIVE ON MANAGING A WINERY

UNIT 13: ADDRESSING MODERN CHALLENGES IN THE WINE SECTOR

UNIT 9: LOCAL & HISTORICAL KNOWLEDGE

Whether you're a worker, a manager, or a business owner in a winery this learning pathway is tailored for you. Embrace the opportunity to gain practical skills in sustainable winery management.

<https://greenvineyards.eu/>

- **13 DIDACTIC UNITS**, referring to 4 modules/areas (see paragraph 3.2):
  - Unit 1. Climate Change Awareness
  - Unit 2. Climate Change Adaptation
  - Unit 3. Climate-Adaptive Water Management
  - Unit 4. Soil Management in Vineyards
  - Unit 5. Biodiversity and Agroecology
  - Unit 6. Energy Efficiency Management
  - Unit 7. Reduction of Greenhouse Gas Emissions
  - Unit 8. Management of waste and by products and wine effluents
  - Unit 9. Local and Historical Knowledge
  - Unit 10. Sustainable Production
  - Unit 11. Valuing Sustainability
  - Unit 12. Individual Perspective on Managing a Winery
  - Unit 13. Addressing Modern Challenges in the Wine Sector

Each unit consists of:

- a **brief video**/text of introduction
- three different levels of content, **from core learning to more advance content**, and contains many links to videos, bibliography, material to in-depth, study cases etc

**Level 1**      **Core Learning:** it is the core of the Unit, the basic part of the didactic experience, it provides basic knowledge.

**Level 2**      **Learning in depth:** Is an in-depth study of the subject (English language)

**Level 3**      **Additional resources,** links to explore the subject and learn about case studies.



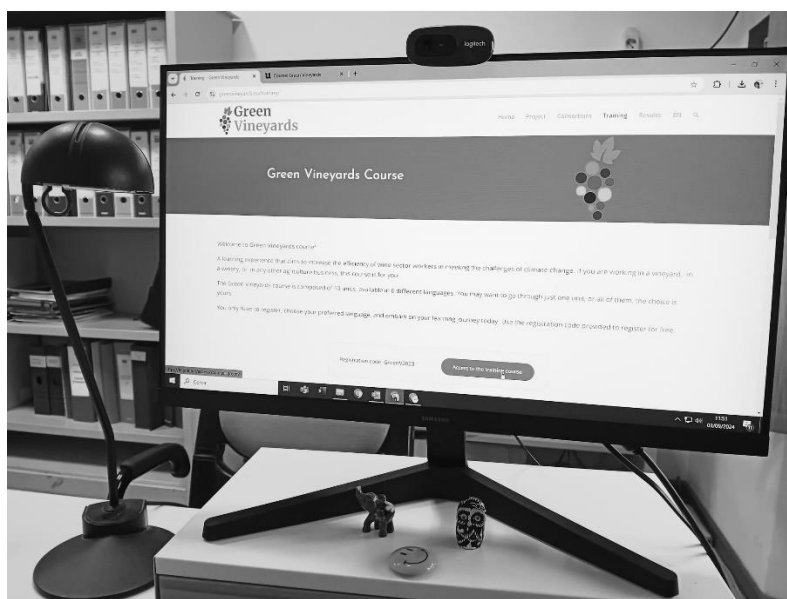
## GREEN VINEYARDS: HOW TO USE

### Guide for individual learners

The GREEN VINEYARDS COURSE is a directly usable, any user can access it in an autonomous and personalized way.

**Individual learners** can choose which units to explore, when and where to connect, how much time to devote to the course, the level of depth of each topic, which cases to analyse and possibly take as inspiration for their own work.

This **toolkit** contains all information and link to instructions to access the platform, but it is also important to explain the importance of running the GV course.



What is the added value? And how individual learners can use it for professional and personal growth?

- 🌿 The GV course **is for you** if you want to learn or deepen agronomist techniques for growing vines in an increasingly sustainable and climate

change-friendly way. In recent years the focus has often been on solving the problems caused by the effects of climate change, but with the course you will be able to **change your perspective** and understand how you, as a wine worker, can change your operations in the field or cellar to reduce the impact of your work on the environment. The main aspects regard soil management, water management, biodiversity, energy consumption.

- ✻ The GV course is for you if you want to learn how other farmers, in Europe, **face the challenges of climate changes** into their vineyards or wineries. You have the opportunity to take inspiration from successful concrete examples, to address specific issues that may be affecting your farm.
- ✻ The GV course is for you if you want to increase your management or **managerial skills** so that every choice can take climate change into due consideration. The GV units can help you to complete your school education, your professional training or your experience with an overview on the climate issues, to be “green oriented” and to gain from this new approach benefits not only for the environment but also for your company. It can lead you to changes in behaviour and structures.
- ✻ The GV course is for you if you want to make a **change in awareness** and general knowledge, leading you towards the caring consumer, who is aware of climate change issues. You can match territorial, historical and environmental elements with those related to product characteristics and quality.
- ✻ The GV course can help you deal with modern society and actual challenges in any context (work, personal, school, etc.) and being more aware of how wine production can impact the **effects of climate change**.
- ✻ The GV course can help you to familiarise yourself with OER and to consider using **online resources** in the future and on different topics.



The features of the GV learning hub ensure a wide exploitation of the project results:

- ✦ **Modular structure and by units**, and on different levels of depth that allows for highly customized use. This will make it possible not only to deliver the course as is, but also to use only certain parts of the course to supplement broader training activities.
- ✦ Connection with skills not strictly technical but related to **Green Comp** (cross-over of “transversal” units also to other sectors or more generally to farm management);
- ✦ Use of the Moodle platform that allows the transport of content from one platform to another, thanks to the technical support of the lead partner this content is delivered as OER and, taking into consideration the **CC-BY-NC-SA license**.

Finally, the use of the GV course could make intermediaries ready to openly **share their work**, to use knowledge created and openly distributed by others, in order to improve access, participation and quality of teaching and learning. Collaboration is an integral part of OEP (Open Educational Practices) and the creation of OER, so the existence of communities that can sustain and maintain these collaborations is crucial.



## CONCLUSIONS

First of all, European project is a way to contribute in an effective, concrete and sustainable way to the achievement of the European Union's objectives, and this can only be achieved by activating **communication and dissemination** initiatives, but above all by providing practical tools and suggestions for future exploitation of its results

The dissemination and exploitation of project results can help inform future policy and practice. The dissemination and exploitation activities carried out by the beneficiaries will support the broader aim of **improving EU environments**.

Replication can be understood also as a process of taking a product, service, model into a different setting (context) or to a different target group than the one it was originally developed for.

So, this Toolkit aims to suggest **how to use in different contexts** the GV project's results, by "Scaling up" (disseminate and increase the volume of use of what has been produced, i.e. the course) and by "Scaling out" which consists of bringing a product, service, model into a different environment.



## **ANNEX I - GREEN VINEYARDS PROJECT**

*Green Vineyards - Upskilling wineries staff: Responding to the challenges of climate change* places itself within the Erasmus+ Programme perspective, aiming at addressing one of the main purposes of this funding programme – the Green and Digital transition.

### **The Erasmus+ Programme**

Erasmus+ is the EU programme for education, training, youth and sport in Europe. Its budget is estimated at EUR 26.2 billion, almost double that of the previous programme (2014-2020). The 2021-2027 programme places a strong emphasis on social inclusion, the green and digital transition and the promotion of young people's participation in democratic life. It supports the priorities and activities set out in the European Education Area, the Digital Education Action Plan and the new Skills Agenda for Europe. In addition, the programme supports the European pillar of social rights, implements the EU Youth Strategy 2019-2027, develops the European dimension in sport.

### **About Green Vineyards Project**

A fair and sustainable society, with a modern, resource-efficient and competitive economy cannot be achieved without a workforce to support it. That is why it is necessary to prepare the workforce for the skills requirements inherent in green jobs and to ensure that industries and workplaces do not face a shortage of adequately skilled workers. The EU is the world's leading producer of wine and, like any other agri-food industry, both contribute to climate change and is affected by climate change. Environmental competences are essential for the wineries workforce and surrounding society, in order to ensure a positive ecological footprint of the activities carried out in this farming sector. Upskilling is, therefore,

necessary to reap the benefits of the aforementioned ecological strategy. The need for a competence framework that identifies the "green" knowledge, skills and aptitudes has already been claimed by the EC. The wine sector cannot be left behind. And linked to the competencies to be identified, a wine sector competence-based training that enables the workers to acquire the competences is particularly necessary.

The aim of 'Green Vineyards' project is to raise the knowledge, skills and aptitudes of workers in the wine sector, addressing the challenges of climate change. The project objectives are:

- 1** To identify the **environmental competences** required by the workers to ensure a positive ecological footprint of the activities carried out.
- 2** To provide **personalised training** for wineries sector staff, according to the identified skills gaps and making the required training available
- 3** To raise **awareness of climate change** impact in the key sector of wine production

A further objective is to disseminate the expected outcomes in order to transmit the created knowledge all over Europe, making the knowledge and technology transfer from the wine sector to other agri-food sectors as smooth as possible.



## **ANNEX II - PARTNERS' PROFILES**

The Consortium of the Green Vineyards Project is composed by different actors working, in various capacities, in the field of training and/or innovation and dissemination in the wine sector, and representative of the major European wine-producing countries:

### **Universidad Internacional de la Rioja (UNIR) - Research Institute for Innovation & Technology in Education (UNIR iTED) - Consortium leader- Spain**

Established in 2008 in Spain, UNIR is a 100% online university, which facilitates an exclusive, innovative and high-quality virtual model of higher education, leant on a personalized, pro-active, and collaborative distance learning method of instruction.

### **Industrial Technical Centre for the vine and wine industry (IFV) - France**

IFV (French Wine and Vine Institute) is the French technical institute of R&D for vine and wine and is governed by a board of members representing all professionals of the wine industry. IFV's role is to implement applied research projects and transfer acquired technology and knowledge to the French wine sector.

### **CESAR Centre for Agricultural and Rural Development - Italy**

CESAR is a non-profit – association founded by the University of Perugia, the Foundation for Agricultural Education in Perugia and the Municipality of Assisi. It offers its expertise in planning, research, consulting and vocational training, both in the territorial and local development fields, and in food processing and environmental sectors.

### **Institute for Research in Environment, Civil Engineering and Energy – IECE – North Macedonia**

IECE was founded in June, 2014 in Skopje, Macedonia. The foundations of IECE are set on three pillars: research and development, education and consultancy. IECE centres its education, research and capacity development programs around six fields: Environment, Civil engineering, Energy, Management, Social sciences and IT.

### **Federacion Española Del Vino – FEV – Spain**

FEV is a private organization created in 1978 to represent and defend the Spanish wine industry and boost the trade of all wines and products elaborated from grapes. FEV Mission is providing a legal, economic, social, environmental and image suitable framework environment to favor sustained growth, competitiveness and profitability of Spanish wineries and viticulture.

### **Bodensee-Stiftung – Germany**

Bodensee-Stiftung (Lake Constance Foundation) is a non-profit organisation for environmental protection and nature conservation in Radolfzell, Germany. The project-oriented foundation works towards more sustainability and nature protection in the international Lake Constance area and beyond. The interdisciplinary team works in the areas of Agriculture & the Food Sector, Business & Biodiversity, Energy Transition and Nature & Lake Conservation.

## Contact details

PARTNER	WEBSITE	CONTACT EMAIL
 <p><b>unir</b> LA UNIVERSIDAD EN INTERNET</p>	<p><a href="http://www.unir.net">www.unir.net</a> <a href="http://ited.unir.net">ited.unir.net</a></p>	<p><a href="mailto:research.opi@unir.net">research.opi@unir.net</a></p>
 <p><b>IFV</b></p>	<p><a href="http://www.vignevin.com">www.vignevin.com</a></p>	<p><a href="mailto:carine.herbin@vignevin.com">carine.herbin@vignevin.com</a></p>
 <p><b>IECE</b> INSTITUTE FOR RESEARCH IN ENVIRONMENT CIVIL ENGINEERING AND ENERGY</p>	<p><a href="http://www.iege.edu.mk">www.iege.edu.mk</a></p>	<p><a href="mailto:info@iege.edu.mk">info@iege.edu.mk</a></p>
 <p><b>FEV</b> FEDERACIÓN ESPAÑOLA DEL VINO</p>	<p><a href="http://www.fev.es/es/">www.fev.es/es/</a></p>	<p><a href="mailto:info@fev.es">info@fev.es</a></p>
 <p><b>Bodensee Stiftung</b> Lake Constance Foundation</p>	<p><a href="http://www.bodensee-&lt;br/&gt;stiftung.org">www.bodensee- stiftung.org</a></p>	<p><a href="mailto:andreas.ziermann@bodense-&lt;br/&gt;e-stiftung.org">andreas.ziermann@bodense- e-stiftung.org</a> <a href="mailto:kerstin.froehle@bodensee-&lt;br/&gt;stiftung.org">kerstin.froehle@bodensee- stiftung.org</a></p>
 <p><b>CESAR</b> CENTRO PER LO SVILUPPO AGRICOLA E RURALE</p>	<p><a href="http://www.cesarweb.com">www.cesarweb.com</a></p>	<p><a href="mailto:formazione@cesarweb.com">formazione@cesarweb.com</a></p>

## ANNEX III - FUTURE OF THE GREEN VINEYARDS PROJECT



### Exploitation of the Results in Spain

The competence framework is being used for the development of new content based on the sustainability of the sector, which will be used in different official university master's degrees.

It will also be used as an educational complement in the **MSc in Enotourism** at UNIR.

The online course will be addressed to wineries in process to obtain the **Sustainable Wineries for Climate Protection certification**, as it will be a useful tool to know how to improve their sustainability and reduce their impact, which will help them in the process of obtaining the certificate. The link to the course has been incorporated into the **SWfCP Good Practice Guide**.

The course has also been presented and shared with the OIVE (Spanish wine interprofessional organization) to make it available to the entire Spanish wine sector.



### Exploitation of the Results in France

The exploitation of Green Vineyards project results by IFV in France consist of:

- Dissemination of the results on a large scale through IFV media:

- Social media Facebook (2000 followers) LinkedIn (19 500 followers), page of results website (176 000 visitors in 2023): September 2024
- Internal IFV media: VINEA : septembre 2024
- Valorisation through IFV's project related to climate change:
  - Vitilience: [Vitilience | Institut Français de la Vigne et du Vin \(vignevin.com\)](https://vignevin.com) regional demonstrators for the adaptation and mitigation of climate change in the wine sector 2024 – 2026
  - WatEnerWine: Water and Energy in the wine sector: transition towards a sustainable, efficient and resilient industry SMP-COSME-2023-AGRICLUSTER - 2024-2027- The project is coordinated by the Catalan cluster INOVI (Spain). 2024
  - LivingSoilsLL: Healthy Soil to Permanent Crops Living Labs, HORIZON-MISS-2023-SOIL-01-08 - 2024-2028 - coordinated by UTAD with the implication of 50 partners. 2024
- Valorisation through other projects related to climate change:
  - NexClim: New training methods to Manage Climatic & ecological transitions in perennial fruit crops 2023-2026 [New training methods to Manage Climatic & ecological transitions in perennial fruit crops \(newclim.eu\)](https://newclim.eu)
- Valorisation through IFV training actions:
  - Sustainability and agroecology course for oenologists students in Dijon 2024/25
- Valorisation through national technical congress:
  - VINITECH 26 to 28 of November 2024
  - SITEVI 25 to 27 of November 2025 ?
- Valorisation in future call for project:
  - NAVY – submission in June 2024 for French translation of levels 2ans 3, and provision of content for integration into a regional LMS NAVY – group of wineries
- Valorisation through research platforms:

- Platform of French Agricultural R&D: [Plateforme R&D \(rd-agri.fr\)](https://rd-agri.fr) September 2024
- Plataforma Tecnológica del Vino: [Plataforma Tecnológica del Vino – Asociación que apuesta por la INNOVACIÓN como motor de la competitividad de la producción vitivinícola, nacional y europea \(ptvino.com\)](https://ptvino.com) October 2024
- Valorisation towards stakeholders:
  - Alsace, SIVAL, Les Entretiens du Beaujolais, Les Assises du sud-Ouest, 2025
  - Valorisation towards training structures:
    - initial and continuing training, academic agronomic and viticultural and oenological training schools, colleges, high schools and engineering schools



## Exploitation of the Results in Germany

For the Lake Constance Foundation, the Green Vineyards project is part of a series of projects that are closely linked in terms of content to climate protection, climate change adaptation and the promotion of biodiversity in viticulture as well as the methodology of teaching of educational content. In the near future, the Lake Constance Foundation will disseminate the content and methodology of the Green Vineyards project via its own website, social media and through events at which the Foundation participate. Employees are trained during the project duration will act as speakers on the relevant topics. In addition, the Lake Constance Foundation plans to intensify its contacts with partners in the project consortium and with stakeholders with whom the Foundation has come into contact respectively deepened the contact in Germany (WBI – Institute for viticulture in Fribourg, winegrowing associations...) and to develop further projects.



## Exploitation of the Results in Italy

The exploitation of the project results will be for the internal CESAR staff as well as for associations, training agencies, companies and general stakeholders in the regional and national territory.

As concern our association, we plan to conduct an internal training session involving all staff not directly employed in the project, to explore the GV course and the didactic tools, focusing on the transversal didact units and on the organization of the course into the Moodle platform. It will be useful to improve staff competences in managing OER, and to improve our knowledge on Green Comp and sustainability issues, that is an element to take into consideration in all European projects and in planning all training activities that we carry on for farmers.

Moreover, we will use the course (as a whole or in some of its units) to enrich our training offer, and to disseminate EU priorities through the initiatives of the Europe Direct Umbria desk we manage. Finally, GV project will be a chance to create new opportunities to extend the project results in new European or local projects, or to develop new partnerships for the future.

We plan to continue with promotion of the course content and training platform, as well as climate changes issues, using various channels:

- 1) Digital channels: website, newsletter (our database containing approximately 500 farms' contacts and 450 agronomists), social network (Facebooks page with more than 3000 followers);
- 2) Newsletter by the Europe Direct Umbria desk (2000 subscribers);
- 3) Local meetings organised within the framework of other projects.

- 4) Participation to important annual fairs and meetings: Agriumbria, Agricollina, Coldiretti assembly, CIA Umbria assembly, University Open Day.

The promotion will be addressed to:

- farmers and wine producers.
- agronomist: since we are a training agency recognised by the National Council of Agronomists; we can recognise credits for agronomists participating into the course. By doing so, we aim to reach more farms and wineries, which are often supervised by external agronomic consultants:
- farmers' associations, university and other local stakeholders interested in using OER in the field of wine growing or wine production, or in the issues of climate change' challenges.
- students or recent graduates, interested in deepening the GV subjects.



## **Exploitation of the Results in North Macedonia**

For the Green Vineyards course, the exploitation of the project results in North Macedonia will focus on both internal and external stakeholders to maximize impact.

We plan to continue with promotion of the course content and training platform to vineyards and wineries across the country. By doing so, we aim to equip workers with the necessary skills to adapt to climate change challenges effectively. Additionally, we will encourage collaboration among industry professionals on internal and external events to share best practices and insights gained from the course. We also already promoted the course and plan to continue to promote it via different channels (magazines, social media, online platforms etc.)



Additionally, we plan to promote the course through partnerships with agricultural organisations, government agencies, and other educational institutions. By offering the course in six languages, including Macedonian, the course is attractive not only to national learners, but international as well.

Overall, the Green Vineyards course serves as a useful tool in supporting North Macedonia's wine sector in achieving sustainability and resilience in the face of climate change.

