



## Leveraging Artificial Intelligence to Manage a Sustainable Transition In Viticulture "STIV"

# Toolkit for VET

A guide developed by the STIV project consortium to promote a green and healthy approach to the working environment, recognising the critical importance of addressing environmental challenges and climate change.

### Disclaimer

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Date: 07/11/2025

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# M1 — Social Transition in the Wine Sector

## 1.1 Social Responsibility in Viticulture

### 1. OIV – International Organisation of Vine & Wine

**Web:** <https://www.oiv.int>

**Languages:** EN /FR / ES

**Free:**  Yes (public documents)

- ES: Organización internacional que publica normas, informes y guías técnicas sobre viticultura y sostenibilidad, útiles para marcos de responsabilidad social.
- EN: International body publishing standards, reports and technical guidance on viticulture and sustainability—useful for social responsibility frameworks.
- FR: Organisation internationale publiant normes, rapports et guides techniques sur viticulture et durabilité, utiles pour responsabilité sociale.
- IT: Organizzazione internazionale che pubblica norme, relazioni e guide tecniche sulla viticoltura e sostenibilità, utili per i quadri di responsabilità sociale.
- SR: Međunarodna organizacija koja objavljuje standarde, izveštaje i tehničke vodiče o vinogradarstvu i održivosti, korisne za okvire društvene odgovornosti.

### 2. Equalitas- Sustainable Wine Certification (Italy)

• **Web:** <https://equalitas.it>

• **Languages:** EN / IT

• **Free:**  Yes (public materials)

- ES: Norma nacional de sostenibilidad para empresas vitivinícolas que integra las dimensiones ambiental, social y económica; incluye directrices y listas de verificación.
- EN: National sustainability standard for wine companies integrating environmental, social and economic dimensions; it includes guidelines and checklists.
- FR: Norme nationale de durabilité pour les entreprises viticoles intégrant les dimensions environnementale, sociale et économique; elle comprend des lignes directrices et des listes de contrôle.
- IT: Standard nazionale di sostenibilità per le aziende vinicole che integra le dimensioni ambientale, sociale ed economica; include linee guida e liste di controllo.
- SR: Nacionalni standard održivosti za vinske kompanije koji integriše ekološke, socijalne i ekonomske dimenzije; uključuje smernice i kontrolne liste.

### 3. **FAO – TECA & Climate/Agro resources**

**Web:** <https://www.fao.org>

**Languages:** EN + Multilingual

**Free:**  Yes

- ES: Recursos FAO sobre buenas prácticas agrícolas, gestión del agua y adaptación climática aplicables a viñedos y condiciones laborales.
- EN: FAO resources on good agricultural practices, water management and climate adaptation applicable to vineyards and labour conditions.
- FR: Ressources FAO sur bonnes pratiques agricoles, gestion de l'eau et adaptation climatique applicables aux vignobles.
- IT: Risorse FAO sulle buone pratiche agricole, gestione delle acque e adattamento climatico applicabili ai vigneti e alle condizioni lavorative.
- SR: FAO resursi o dobrim poljoprivrednim praksama, upravljanju vodom i klimatskoj adaptaciji primenljivi na vinograde i radne uslove.

### 4. **amfori / BSCI (supply chain & wine sector guidance)**

**Web:** <https://www.amfori.org>

**Languages:** EN

**Free:**  Partial (free introductory material)

- ES: Guías sobre derechos laborales y cumplimiento en cadenas de suministro que pueden adaptarse a la viticultura.
- EN: Guidance on labour rights and supply-chain compliance adaptable for the wine sector.
- FR: Guides sur les droits du travail et conformité des chaînes d'approvisionnement applicables au secteur vitivinicole.
- IT: Guide sui diritti del lavoro e conformità nelle filiere che possono essere adattate alla viticoltura.
- SR: Vodiči o radnim pravima i usklađenosti u lancima snabdevanja koji se mogu prilagoditi vinogradarstvu.

### 5. **Sustainable Winegrowing Australia (SWA)**

**Web:** <https://www.sustainablewinegrowing.com.au>

**Languages:** EN

**Free:**  Partial (public guides)

- ES: Plataforma australiana con guías y casos sobre prácticas sostenibles que incluyen dimensiones sociales.
- EN: Australian platform providing guides and case studies on sustainable practices including social aspects.
- FR: Plateforme australienne proposant guides et études de cas sur pratiques durables incluant aspects sociaux.
- IT: Piattaforma australiana con guide e casi su pratiche sostenibili che includono dimensioni sociali.
- SR: Australijska platforma sa vodičima i studijama o održivim praksama koje uključuju društvene dimenzije.

## 6. Sustainable Winegrowing BC (Canada)

**Web:** <https://sustainablewinegrowingbc.ca/>

**Languages:** EN

**Free:**  Yes

- ES: Recursos, plantillas y guías sobre sostenibilidad y responsabilidad social para viticultores en Columbia Británica.
- EN: Resources, templates and guides on sustainability and social responsibility for BC winegrowers.
- FR: Ressources, modèles et guides sur durabilité et responsabilité sociale pour vigneronns en Colombie-Britannique.
- IT: Risorse, modelli e guide sulla sostenibilità e responsabilità sociale per viticoltori in Columbia Britannica.
- SR: Resursi, šabloni i vodiči za održivost i društvenu odgovornost za vinogradare u Britanskoj Kolumbiji.

## 7. Sustainable Winegrowing New Zealand (NZ Wine / SWNZ)

**Web:** <https://www.nzwine.com/en/sustainability/>

**Languages:** EN

**Free:**  Yes

- ES: Material público sobre sostenibilidad (ambiental y social), buenas prácticas y casos en Nueva Zelanda.
- EN: Public materials on sustainability (environmental and social), best practice and case studies from New Zealand.
- FR: Documents publics sur durabilité environnementale et sociale, bonnes pratiques en Nouvelle-Zélande.
- IT: Materiale pubblico sulla sostenibilità (ambientale e sociale), buone pratiche e casi in Nuova Zelanda.
- SR: Javni materijal o održivosti (ekološkoj i društvenoj), dobrim praksama i primerima na Novom Zelandu.

## 8. Fair'n Green (Germany)

**Web:** <https://www.fairandgreen.de/en/>

**Languages:** EN / DE

**Free:**  Partial (information material)

- ES: Marco de sostenibilidad que incluye criterios sociales; fichas y guías públicas de referencia.
- EN: Sustainability framework including social criteria; public fact sheets and guidance.
- FR: Cadre de durabilité incluant critères sociaux; fiches et guides publics.
- IT: Quadro di sostenibilità che include criteri sociali; schede e guide pubbliche di riferimento.
- SR: Okvir održivosti koji uključuje socijalne kriterijume; javno dostupni vodiči i listovi za referencu.

## 9. ADVID – Cluster dos Vinhos (Portugal)

**Web:** <https://www.advid.pt>

**Languages:** EN / PT

**Free:**  Yes (articles and news)

- ES: Clúster con proyectos de innovación y sostenibilidad que incluyen aspectos sociales de la viticultura.
- EN: Cluster with innovation and sustainability projects including social aspects for wine regions.
- FR: Cluster travaillant sur innovation et durabilité, incluant la dimension sociale.
- IT: Cluster con progetti di innovazione e sostenibilità che includono aspetti sociali della viticoltura.
- SR: Klaster sa inovacionim i održivim projektima koji obuhvataju društvene aspekte vinogradarstva.

## 10. Ethical Trading Initiative

**Web:** <https://www.ethicaltrade.org/>

**Languages:** EN

**Free:**  Yes (materials)

- ES: Guías y recursos sobre comercio ético y derechos laborales aplicables a la cadena de suministro vitivinícola.
- EN: Guides and resources on ethical trade and labour rights applicable to wine supply chains.
- FR: Guides et ressources sur commerce éthique et droits du travail applicables aux filières viticoles.
- IT: Guide e risorse sul commercio etico e sui diritti dei lavoratori applicabili alla filiera vitivinicola.
- SR: Vodiči i resursi o etičkoj trgovini i radnim pravima primenljivi na lanac nabavke vina.

## 11. Vineyard Labour Rights Project

**Web:** <https://vineyardlabourrights.org/>

**Languages:** EN

**Free:**  Yes

- ES: Proyecto que documenta y promueve mejoras en derechos y condiciones de los trabajadores en viñedos.
- EN: Project documenting and promoting improvements in vineyard workers' rights and conditions.
- FR: Projet documentant et promouvant l'amélioration des droits des travailleurs en vignobles.
- IT: Progetto che documenta e promuove miglioramenti nei diritti e condizioni dei lavoratori nei vigneti.
- SR: Projekat koji dokumentuje i promoviše poboljšanja prava i uslova radnika u vinogradima.

## 1.2 Gender Equality in Viticulture

### 12. Donne del Vino – Women of Wine (Italy)

**Web:** <https://www.ledonnedelvino.com>

**Languages:** EN / IT

**Free:**  Yes

- ES: Asociación nacional que promueve la igualdad de género, la educación y el liderazgo de las mujeres en la industria vitivinícola italiana.
- EN: Community and mentoring to boost female participation and leadership in the wine sector.
- FR : Association nationale qui promeut l'égalité des genres, l'éducation et le leadership des femmes dans l'industrie viticole italienne.
- IT: Associazione nazionale che promuove la parità di genere, l'educazione e la leadership delle donne nell'industria vinicola italiana.
- SR: Nacionalno udruženje koje promovise rodnu ravnopravnost, obrazovanje i liderstvo žena u italijanskoj vinskoj industriji.

### 13. Women in Wine (New Zealand)

**Web:** <https://www.womeninwine.co.nz/>

**Languages:** EN

**Free:**  Yes

- ES: Comunidad y mentoring para impulsar la participación y liderazgo femenino en el sector vitivinícola.
- EN: Community and mentoring to boost female participation and leadership in the wine sector.
- FR: Communauté et mentorat pour renforcer la participation et le leadership des femmes dans le vin.
- IT: Comunità e mentoring per promuovere la partecipazione e la leadership femminile nel settore vitivinicolo.
- SR: Zajednica i mentorstvo za podsticanje učešća i ženskog liderstva u sektoru vina.

### 14. AMAVI – Mujeres del Vino (España)

**Web:** <https://www.amaviamantesdelvino.org/>

**Languages:** ES

**Free:**  Partial (interviews and resources)

- ES: Asociación que visibiliza a las profesionales del vino en España.
- EN: Association promoting visibility of women in Spanish wine.
- FR: Association valorisant les professionnelles du vin en Espagne.
- IT: Associazione che valorizza le professioniste del vino in Spagna.
- SR: Udruženje koje promovise žene profesionalce vina u Španiji.

### 15. Women of the Vine & Spirits (International)

**Web:** <https://www.womenofthevine.com/>

**Languages:** EN

**Free:**  Partial

- ES: Red global con artículos, conferencias y materiales sobre liderazgo femenino en bebidas.
- EN: Global network with articles, events and materials on female leadership in beverage industries.
- FR: Réseau mondial proposant articles et événements sur leadership féminin.
- IT: Rete globale con articoli, conferenze e materiali sulla leadership femminile nelle bevande.
- SR: Globalna mreža sa člancima, konferencijama i materijalima o ženskom liderstvu u industriji pića.

### 16. Podcast “Mujeres en el Vino” (Argentina)

**Web:** <https://mujeresenvino.com.ar/podcast/>

**Languages:** ES

**Free:**  Yes

- ES: Entrevistas y testimonios que fomentan la visibilidad de mujeres en el sector en Latinoamérica.
- EN: Interviews and testimonies promoting visibility of women in the Latin American wine sector.
- FR: Interviews et témoignages favorisant visibilité des femmes dans le vin en Amérique latine.
- IT: Interviste e testimonianze che promuovono la visibilità delle donne nel settore in America Latina.
- SR: Intervjui i svedočenja koja promovišu vidljivost žena u sektoru u Latinskoj Americi.

### 17. Women of the Vine materials (open content)

**Web:** <https://www.womenofthevine.com/>

**Languages:** EN

**Free:**  Partial

- ES: Materiales abiertos útiles para formación en igualdad de género y liderazgo en bodegas.
- EN: Open materials useful for gender equality and leadership training in wineries.
- FR: Matériel ouvert utile pour formation égalité des genres et leadership.
- IT: Materiali aperti utili per la formazione in parità di genere e leadership nelle cantine.
- SR: Otvoreni materijali korisni za obuku o rodnoj ravnopravnosti i liderstvu u vinarijama.

## 1.3 Change Management and Communication

### 18. Wine Australia – Change Management Toolkit

**Web:** <https://www.wineaustralia.com/>

**Languages:** EN

**Free:**  Yes

- ES: Kit práctico para gestionar cambios organizativos y comunicación en bodegas y viñedos.
- EN: Practical toolkit to manage organisational change and communications in wineries.
- FR: Boîte à outils pratique pour gérer changement organisationnel et communication.
- IT: Kit pratico per gestire i cambiamenti organizzativi e la comunicazione in cantine e vigneti.
- SR: Praktični kit za upravljanje organizacionim promenama i komunikacijom u vinarijama i vinogradima.

### 19. Comunicavino

**Web:** <https://www.comunicavino.com>

**Languages:** ES

**Free:**  Yes

- ES: Blog y podcast con orientación sobre comunicación, marca y marketing para el sector del vino.
- EN: Blog/podcast offering guidance on wine communication, branding and marketing.
- FR: Blog/podcast donnant conseils sur communication, marque et marketing du vin.
- IT: Blog e podcast con consigli su comunicazione, brand e marketing per il settore vinicolo.
- SR: Blog i podkast sa savetima o komunikaciji, brendiranju i marketingu za sektor vina.

### 20. ICV Webinars (France) – Change & Innovation

**Web:** <https://www.icv.fr>

**Languages:** FR

**Free:**  Partial (webinars)

- ES: Seminarios sobre innovación, gestión del cambio y transformación digital en cooperativas y bodegas.
- EN: Webinars on innovation, change management and digital transformation for cooperatives and wineries.
- FR: Webinaires sur innovation, gestion du changement et transformation digitale.
- IT: Seminari su innovazione, gestione del cambiamento e trasformazione digitale in cooperative e cantine.
- SR: Seminari o inovacijama, upravljanju promenama i digitalnoj transformaciji u zadrugama i vinarijama.

## 21. Kotter's 8 Steps (framework)

**Web:** <https://www.kotterinc.com/8-steps-process-for-leading-change/>

**Languages:** EN

**Free:**  Yes (public explanations)

- ES: Marco teórico clásico para gestionar procesos de cambio, aplicable a empresas vitivinícolas.
- EN: Classic organisational change framework applicable to winery transformations.
- FR: Cadre classique de gestion du changement applicable aux caves.
- IT: Quadro teorico classico per gestire processi di cambiamento, applicabile alle aziende vitivinicole.
- SR: Klasičan teorijski okvir za upravljanje promenama, primenjiv na vinske kompanije.

## 22. Wine Communications Group (blog/resources)

**Web:** <https://winecommunicationsgroup.com/>

**Languages:** EN

**Free:**  Partial

- ES: Recursos prácticos sobre comunicación institucional y campañas para bodegas.
  - EN: Practical resources on institutional communication and campaigns for wineries.
  - FR: Ressources pratiques sur communication institutionnelle et campagnes.
  - IT: Risorse pratiche su comunicazione istituzionale e campagne per cantine.
  - SR: Praktični resursi o institucionalnoj komunikaciji i kampanjama za vinarije.
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## M2 — Digital Transition in Viticulture

### 2.1 Understanding Precision Viticulture

#### 23. Vine.net (Horta s.r.l. -Università Cattolica Piacenza)

**Web:** <https://vite.net/>

**Languages:** EN / IT

**Free:**  Partial (demo)

- ES: Sistema italiano de apoyo a la decisión (DSS) para viñedos, que integra datos climáticos, de plagas y de enfermedades.
- EN: Italian Decision Support System (DSS) for vineyards, integrating climate, pest and disease data.
- FR: Système italien d'aide à la décision (DSS) pour les vignobles, intégrant des données climatiques, de ravageurs et de maladies.
- IT: Sistema italiano di supporto alle decisioni (DSS) per i vigneti, che integra dati climatici, fitosanitari e sulle malattie.
- SR: Italijanski sistem podrške odlučivanju (DSS) za vinograde, koji integriše podatke o klimi, štetočinama i bolestima.

#### 24. Precision Viticulture 101 – UC Davis Extension

**Web:** <https://extension.ucdavis.edu/precision-viticulture>

**Languages:** EN

**Free:**  Yes

- ES: Materiales de extensión sobre fundamentos de viticultura de precisión: sensores, zonificación y análisis.
- EN: Extension materials on fundamentals of precision viticulture: sensors, zoning and analysis.
- FR: Documents d'extension sur bases de viticulture de précision : capteurs et zonage.
- IT: Materiali di estensione sui fondamenti della viticoltura di precisione: sensori, zonizzazione e analisi.
- SR: Materijali o osnovama preciznog vinogradarstva: senzori, zoniranje i analize.

## 25. CREA Viticoltora ed Enologia (Public Research Center; Italy)

**Web:** <https://www.crea.gov.it/>

**Languages:** IT

**Free:**  Yes

- ES: Centro de investigación del gobierno italiano que publica estudios de viticultura de acceso abierto, datos SIG y proyectos de innovación digital.
- EN: Italian government research hub publishing open-access viticulture studies, GIS data, and digital innovation projects.
- FR: Pôle de recherche du gouvernement italien publiant des études de viticulture en libre accès, des données SIG et des projets d'innovation numérique.
- IT: Polo di ricerca del governo italiano che pubblica studi di viticoltura ad accesso aperto, dati GIS e progetti di innovazione digitale.
- SR: Istraživački centar italijanske vlade koji objavljuje otvorene studije o vinogradarstvu, GIS podatke i projekte digitalnih inovacija.

## 26. Agroop – Smart Viticulture platform (basic/free tier)

**Web:** <https://www.agroop.net/>

**Languages:** PT / EN / ES

**Free:**  Free basic version

- ES: Plataforma de sensores y dashboards con plan básico gratuito adecuado para pequeñas explotaciones.
- EN: Sensor & dashboard platform offering a basic free tier suitable for small vineyards.
- FR: Plateforme capteurs et tableaux de bord avec version de base gratuite.
- IT: Piattaforma di sensori e dashboard con piano base gratuito adatto a piccole aziende.
- SR: Platforma senzora i kontrolnih tabli sa besplatnim osnovnim planom pogodnim za manje posede.

## 27. VITISENSE – Sensors & information

**Web:** <https://www.vitisense.com/>

**Languages:** EN / ES

**Free:**  Partial (demos/material)

- ES: Soluciones de sensores para monitorizar parámetros del viñedo en tiempo real y apoyar decisiones agronómicas.
- EN: Sensor solutions to monitor vineyard variables in real-time to support agronomic decisions.
- FR: Solutions de capteurs pour surveillance en temps réel des vignes.
- IT: Soluzioni di sensori per monitorare parametri del vigneto in tempo reale e supportare decisioni agronomiche.
- SR: Rešenja sa sensorima za praćenje parametara vinograda u realnom vremenu i podršku agronomskim odlukama.

## 28. Geosys – Satellite analytics for agriculture

**Web:** <https://geosys.com/>

**Languages:** EN

**Free:**  Partial (free files)

- ES: Productos satelitales que permiten interpretar vigor, estrés hídrico y zonificación de fincas.
- EN: Satellite-derived products for vigor assessment, water stress and field zoning.
- FR: Produits satellitaires pour mesure de vigueur, stress hydrique et zonage.
- IT: Prodotti satellitari per interpretare vigore, stress idrico e zonizzazione dei terreni.
- SR: Satelitski proizvodi koji omogućavaju interpretaciju bujnosti, vodnog stresa i zoniranja parcela.

## 29. Viticultura de Precisión – INIA publications

**Web:** <https://www.inia.es/>

**Languages:** ES

**Free:**  Yes (publications)

- ES: Publicaciones técnicas en español sobre aplicaciones de precisión en viñedo.
- EN: Spanish technical publications on precision viticulture applications.
- FR: Publications techniques en espagnol sur viticulture de précision.
- IT: Pubblicazioni tecniche in spagnolo sulle applicazioni di precisione nei vigneti.
- SR: Tehničke publikacije na španskom o preciznim aplikacijama u vinogradima.

## 2.2 Intelligent Monitoring Technologies

### 30. DroneDeploy (agriculture)

**Web:** <https://www.dronedeploy.com/industries/agriculture/>

**Languages:** EN

**Free:**  Free basic version

- ES: Plataforma de planificación y análisis con drones con opción gratuita/básica para agricultura.
- EN: Drone mapping & analysis platform with a basic free tier for ag users.
- FR: Plateforme de cartographie par drone avec version gratuite de base.
- IT: Piattaforma di pianificazione e analisi con droni con opzione gratuita/base per l'agricoltura.
- SR: Platforma za planiranje i analize sa dronovima sa besplatnim/osnovnim opcijama za poljoprivredu.

### 31. Parrot Bluegrass Fields (ag drone)

**Web:** <https://www.parrot.com/global/drones/parrot-bluegrass-fields>

**Languages:** EN / FR

**Free:**  Partial (info/demos)

- ES: Dron diseñado para agricultura con sensores para mapeo de vigor en cultivos.
- EN: Agriculture-focused drone with multispectral options for vigor mapping.
- FR: Drone agricole avec capteurs multispectraux.
- IT: Drone progettato per l'agricoltura con sensori per la mappatura del vigore nelle colture.
- SR: Dron dizajniran za poljoprivredu sa sensorima za mapiranje bujnosti useva.

### 32. Sentera (sensors & analytics)

**Web:** <https://sentera.com/>

**Languages:** EN

**Free:**  Partial (webinars/demos)

- ES: Proveedor de sensores y servicios analíticos que publica webinars y material formativo.
- EN: Sensor and analytics provider publishing webinars and demo content.
- FR: Fournisseur de capteurs et analyses fournissant webinaires et démonstrations.
- IT: Fornitore di sensori e servizi analitici che pubblica webinar e materiale formativo.
- SR: Dobavljač senzora i analitičkih usluga koji objavljuje vebinare i edukativni materijal.

### 33. Vineyard Cloud / vineyard management platforms (examples)

**Web:** <https://www.vineyardcloud.com/>

**Languages:** EN

**Free:**  Partial (demo)

- ES: Plataformas cloud para centralizar datos de sensores, suelo, riego y visualizarlos en paneles.
- EN: Cloud platforms to centralize sensor, soil and irrigation data and visualize on dashboards.
- FR: Plateformes cloud pour centraliser données de vignoble et visualiser.
- IT: Piattaforme cloud per centralizzare i dati di sensori, suolo, irrigazione e visualizzarli su pannelli.
- SR: Cloud platforme za centralizaciju podataka sa senzora, zemljišta, navodnjavanja i njihovo prikazivanje na tablama.

### 34. Copernicus / Sentinel (satellite data)

**Web:** <https://www.copernicus.eu/en>

**Languages:** EN + Multilingual

**Free:**  Yes (open data)

- ES: Imágenes Sentinel gratuitas para generar índices (NDVI), mapas de vigor y detección de estrés.
- EN: Free Sentinel imagery to produce NDVI, vigor maps and stress detection.
- FR: Images Sentinelles libres pour NDVI et cartographie du stress.
- IT: Immagini Sentinel gratuite per generare indici (NDVI), mappe di vigore e rilevamento dello stress.
- SR: Besplatne Sentinel slike za generisanje indeksa (NDVI), mapa bujnosti i detekcije stresa.

### 35. AWRI Sensor Web / AWRI monitoring tools

**Web:** [https://www.awri.com.au/industry\\_support/viticulture/precision-viticulture/](https://www.awri.com.au/industry_support/viticulture/precision-viticulture/)

**Languages:** EN

**Free:**  Yes (tools and technical notes)

- ES: Herramientas y guías AWRI para monitorización del dosel, humedad y clima vitícola.
- EN: AWRI tools and guidance for canopy, moisture and vineyard climate monitoring.
- FR: Outils AWRI pour surveillance de couvert végétal et climat du vignoble.
- IT: Strumenti e guide AWRI per monitoraggio della chioma, umidità e clima viticolo.
- SR: Alati i vodiči AWRI za praćenje krošnje, vlažnosti i vinogradarske klime.

## 2.3 Data Visualisation & Predictive Modelling

### 36. Tableau (demos) / alternatives

**Web:** <https://www.tableau.com/solutions/agriculture>

**Languages:** EN

**Free:**  Partial (educational / public versions)

- ES: Software de visualización potente usado para dashboards agronómicos; opciones gratuitas para estudiantes o público.
- EN: Powerful visualization software used for ag dashboards with some free public/educational options.
- FR: Outil de visualisation puissant utilisé pour tableaux de bord agricoles (options gratuites pour étudiants).
- IT: Software di visualizzazione potente usato per dashboard agronomici; opzioni gratuite per studenti o pubblico.
- SR: Snažan softver za vizualizaciju korišćen za agronomске kontrolne table; besplatne opcije za studente ili javnost.

### 37. R Project / RStudio (data & modelling)

**Web:** <https://www.r-project.org/>

**Languages:** EN

**Free:**  Yes (open-source)

- ES: Entorno y librerías para análisis estadístico, modelización y visualización de datos vitícolas.
- EN: Environment and libraries for statistical analysis, predictive modelling and data visualization.
- FR: Environnement et bibliothèques pour analyse statistique et modélisation.
- IT: Ambiente e librerie per analisi statistica, modellizzazione e visualizzazione di dati viticoli.
- SR: Okruženje i biblioteke za statističku analizu, modeliranje i vizualizaciju vinogradarskih podataka.

### 38. Agremo (image analytics)

**Web:** <https://www.agremo.com/>

**Languages:** EN

**Free:**  Partial (demos/webinars)

- ES: Plataforma que aplica IA a imágenes para detectar plagas, vigor y estimar rendimiento.
- EN: Platform applying AI to imagery to detect pests, vigour and estimate yields.
- FR: Plateforme d'IA appliquée à l'imagerie pour détection ravageurs et estimation rendement.
- IT: Piattaforma che applica IA alle immagini per rilevare parassiti, vigore e stimare la resa.
- SR: Platforma koja primenjuje veštačku inteligenciju na slike radi otkrivanja štetočina, bujnosti i procene prinosa.

### 39. VineView (imagery & modelling)

**Web:** <https://vineview.com/>

**Languages:** EN

**Free:**  Partial (demo material)

- ES: Servicios de análisis de imágenes para zonificación de rendimiento y salud del viñedo.
- EN: Imagery analysis services for yield & health zoning in vineyards.
- FR: Services d'analyse d'images pour zonage rendement et santé.
- IT: Servizi di analisi d'immagine per zonizzazione della resa e salute del vigneto.
- SR: Usluge analize slika za zoniranje prinosa i zdravlje vinograda.

#### 40. Python ML stacks (scikit-learn, xgboost, prophet)

**Web:** <https://www.python.org/>

**Languages:** EN

**Free:**  Yes (open-source)

- ES: Librerías para crear modelos predictivos de producción, fenología y riesgos fitosanitarios.
- EN: Libraries to build predictive models for yields, phenology and pest/disease risk.
- FR: Bibliothèques pour créer modèles prédictifs en viticulture.
- IT: Librerie per creare modelli predittivi di produzione, fenologia e rischi fitosanitari.
- SR: Biblioteke za kreiranje prediktivnih modela proizvodnje, fenologije i fitosanitarnih rizika.

#### 41. Streamlit (dashboards)

**Web:** <https://streamlit.io>

**Languages:** EN

**Free:**  Yes (open-source)

- ES: Herramienta para crear aplicaciones web ligeras que muestren datos y modelos de viñedo.
- EN: Tool to build light web apps to present vineyard data and models.
- FR: Outil pour créer applications web légères affichant données et modèles.
- IT: Strumento per creare applicazioni web leggere che mostrino dati e modelli del vigneto.
- SR: Alat za kreiranje laganih web aplikacija za prikaz podataka i modela vinograda.

### 2.4 Decision Support Systems (DSS)

#### 42. INIA Decision Support Systems (examples)

**Web:** <https://www.inia.es/>

**Languages:** ES

**Free:**  Yes (public tools)

- ES: Ejemplos de DSS que combinan clima, suelo y alertas para recomendaciones agronómicas.
- EN: Examples of DSS integrating climate, soil and alerts to provide agronomic recommendations.
- FR: Exemples de DSS intégrant climat, sol et alertes pour recommandations agronomiques.
- IT: Esempi di DSS che combinano clima, suolo e allarmi per raccomandazioni agronomiche.
- SR: Primeri DSS-a koji kombinuju klimu, zemljište i alarme za agronomске preporuke.

#### 43. CropManage (UC ANR) – irrigation & fertility

**Web:** <https://cropmanage.ucanr.edu/>

**Languages:** EN

**Free:**  Yes

- ES: Programa para programar riegos y fertilizaciones en función de necesidades reales del cultivo.
- EN: Tool for scheduling irrigation and fertilizer applications based on crop needs and local data.
- FR: Outil pour planification d'irrigation et fertilisation selon besoins réels.
- IT: Programma per programmare irrigazioni e fertilizzazioni in base alle reali esigenze della coltura.
- SR: Program za planiranje navodnjavanja i đubrenja prema realnim potrebama useva.

#### 44. VineSens (monitoring / alerts)

**Web:** <https://vinesens.com/>

**Languages:** EN / ES

**Free:**  Partial (demo)

- ES: Plataforma de monitorización con alertas y paneles para decisiones agronómicas en parcelas.
- EN: Monitoring platform with alerts and dashboards to support plot-level decisions.
- FR: Plateforme de surveillance avec alertes et tableaux de bord.
- IT: Piattaforma di monitoraggio con allarmi e pannelli per decisioni agronomiche nei lotti.
- SR: Platforma za praćenje sa alarmima i tablama za agronomске odluke na parcelama.

#### 45. MeteoVitis (agroclimate DSS)

**Web:** <https://www.meteovitis.es/>

**Languages:** ES

**Free:**  Yes

- ES: Integración de datos climáticos para planificar tratamientos fitosanitarios y vendimia.
- EN: Integration of climate data to plan sprays and harvest timing.
- FR: Intégration des données climatiques pour planifier traitements et vendanges.
- IT: Integrazione dei dati climatici per pianificare trattamenti fitosanitari e vendemmia.
- SR: Integracija klimatskih podataka radi planiranja fitosanitarnih tretmana i berbe.

#### 46. Extension resources on DSS (universities)

**Web:** <https://extension.psu.edu/decision-support-systems-in-agriculture>

**Languages:** EN

**Free:**  Yes

- ES: Guías y casos de extensión sobre implementación de DSS en agricultura y viñedo.
- EN: Extension guides and case studies on implementing DSS in agriculture and vineyards.
- FR: Guides d'extension sur mise en place de DSS en agriculture.
- IT: Guide e casi di estensione sull'implementazione dei DSS in agricoltura e nei vigneti.
- SR: Vodiči i primeri o implementaciji DSS-a u poljoprivredi i vinogradima.

#### 47. Atfield

**Web:** <https://atfield.tech/>

**Languages:** EN / SR

**Free:**  Yes

- ES: Plataforma DSS que combina datos climáticos, de suelo y de viñedo para apoyar decisiones agronómicas.
  - EN: DSS platform integrating climate, soil, and vineyard data to support agronomic decision-making.
  - FR: Plateforme DSS intégrant les données climatiques, pédologiques et viticoles pour soutenir la prise de décision agronomique.
  - IT: Piattaforma DSS che integra dati climatici, del suolo e del vigneto per supportare il processo decisionale agronomico.
  - SR: DSS platforma koja integriše podatke o klimi, zemljištu i vinogradu radi podrške agronomskom odlučivanju.
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## M3 — Green & Energy Transition in Viticulture

### 3.1 Green Practices in Viticulture

#### 48. Organic Winegrowing – Soil Association (guides)

**Web:** <https://www.soilassociation.org/organic-wine/>

**Languages:** EN

**Free:**  Yes

- ES: Guías para gestión orgánica del viñedo, manejo de suelos y biodiversidad.
- EN: Guides for organic vineyard management, soil care and biodiversity.
- FR: Guides pour viticulture biologique, gestion des sols et biodiversité.
- IT: Guide per la gestione organica del vigneto, gestione del suolo e biodiversità.
- SR: Vodiči za organsko upravljanje vinogradima, negu zemljišta i očuvanje biodiverziteta.

#### 49. VIVA – Sustainable Wine Italy (Ministry of Environment)

**Web:** <https://viticolturasostenibile.org>

**Languages:** EN / IT

**Free:**  Yes

- ES: Programa oficial italiano para medir y mejorar la sostenibilidad en viñedos y bodegas, con herramientas e indicadores abiertos (Aire, Agua, Territorio, Viñedo).
- EN: Official Italian program for measuring and improving sustainability in vineyards and wineries, with open tools and indicators (Air, Water, Territory, Vineyard).
- FR: Programme officiel italien pour mesurer et améliorer la durabilité dans les vignobles et les caves, avec des outils et des indicateurs ouverts (Air, Eau, Territoire, Vignoble).
- IT: Programma ufficiale italiano per misurare e migliorare la sostenibilità nei vigneti e nelle cantine, con strumenti e indicatori aperti (Aria, Acqua, Territorio, Vigneto).
- SR: Službeni italijanski program za merenje i unapređenje održivosti u vinogradima i vinarijama, sa otvorenim alatima i pokazateljima (Vazduh, Voda, Teritorija, Vinograd).

## 50. **Unione Italiana Vini (UIV) – Sustainability Portal**

**Web:** <https://unioneitalianavini.it/>

**Languages:** EN / IT

**Free:**  Partial (public docs)

- ES: Portal del sector que ofrece directrices, formación y estudios de caso sobre descarbonización y energías renovables para bodegas.
- EN: Industry portal offering guidelines, training and case studies on decarbonisation and renewable energy for wineries.
- FR: Portail de l'industrie offrant des lignes directrices, des formations et des études de cas sur la décarbonation et les énergies renouvelables pour les caves.
- IT: Portale del settore che offre linee guida, formazione e casi studio sulla decarbonizzazione e le energie rinnovabili per le cantine.
- SR: Industrijski portal koji nudi smernice, obuke i studije slučaja o dekarbonizaciji i obnovljivim izvorima energije za vinarije.

## 51. **WaterWise Viticulture – UC Davis**

**Web:** <https://waterwise.ucdavis.edu/>

**Languages:** EN

**Free:**  Yes

- ES: Técnicas y herramientas prácticas para manejo eficiente del agua en viñedos.
- EN: Techniques and practical tools for efficient vineyard water management.
- FR: Techniques et outils pratiques pour gestion de l'eau en vignoble.
- IT: Tecniche e strumenti pratici per la gestione efficiente dell'acqua nei vigneti.
- SR: Tehnike i praktični alati za efikasno upravljanje vodom u vinogradima.

## 52. **WWF – Biodiversity in Vineyards materials**

**Web:** <https://www.wwf.org.uk/where-we-work/places/vineyards>

**Languages:** EN

**Free:**  Yes

- ES: Iniciativas y orientación para integrar biodiversidad y servicios ecosistémicos en viñedos.
- EN: Initiatives and guidance to integrate biodiversity and ecosystem services in vineyards.
- FR: Initiatives et orientations pour intégrer biodiversité dans les vignobles.
- IT: Iniziative e orientamenti per integrare biodiversità e servizi ecosistemici nei vigneti.
- SR: Inicijative i smernice za integraciju biodiverziteta i ekosistemskih usluga u vinogradima.

### 53. ENEA – energy efficiency & guides (Italy)

**Web:** <https://www.enea.it/en>

**Languages:** EN / IT

**Free:**  Yes (information)

- ES: Estudios y guías aplicables a bodegas sobre eficiencia energética y renovables.
- EN: Studies and guides on energy efficiency and renewables for wineries.
- FR: Études et guides sur efficacité énergétique et renouvelables.
- IT: Studi e guide applicabili alle cantine su efficienza energetica e rinnovabili.
- SR: Studije i vodiči o energetskej efikasnosti i obnovljivim izvorima energije za vinarije.

### 54. FAO Agroforestry / agroecology resources

**Web:** <http://www.fao.org/agroforestry/>

**Languages:** EN / ES

**Free:**  Yes

- ES: Material sobre integrar árboles y prácticas agroecológicas para mejorar suelo y clima micro.
- EN: Materials on integrating trees and agroecological practices to improve soil and microclimate.
- FR: Ressources sur agroforesterie pour améliorer sols et microclimat.
- IT: Materiale sull'integrazione di alberi e pratiche agroecologiche per migliorare il suolo e il microclima.
- SR: Materijali o integraciji drveća i agroekoloških praksi radi poboljšanja zemljišta i mikroklima.

### 55. EU biodiversity & agriculture guidance (DG ENV / EEA)

**Web:** [https://ec.europa.eu/environment/index\\_en.htm](https://ec.europa.eu/environment/index_en.htm)

**Languages:** EN / ES / FR

**Free:**  Yes

- ES: Documentos de política y buenas prácticas para integrar biodiversidad en agricultura y viñedos.
- EN: Policy papers and good-practice guidance for integrating biodiversity in agriculture.
- FR: Documents politiques et bonnes pratiques pour intégrer biodiversité.
- IT: Documenti di politica e buone pratiche per integrare la biodiversità in agricoltura e vigneti.
- SR: Dokumenti o politikama i smernice o najboljim praksama za integraciju biodiverziteta u poljoprivredu.

### 56. Biochar International (soil carbon & health)

**Web:** <https://www.biochar-international.org/>

**Languages:** EN

**Free:**  Yes (resources)

- ES: Información sobre biochar para mejorar retención de agua y salud del suelo en viñedos.
- EN: Info on biochar use to improve water retention and soil health in vineyards.
- FR: Informations sur usage du biochar pour améliorer sols et rétention d'eau.
- IT: Informazioni sul biochar per migliorare ritenzione idrica e salute del suolo nei vigneti.
- SR: Informacije o upotrebi bio-uglja za poboljšanje zadržavanja vode i zdravlja zemljišta u vinogradima.

### 57. Agroecology videos / YouTube playlists (prácticas)

**Web:** <https://www.youtube.com/>

**Languages:** EN / ES / FR

**Free:**  Yes

- ES: Videos prácticos sobre cubiertas vegetales, setos y agroecología en viñedos.
- EN: Practical videos on cover crops, hedgerows and agroecology in vineyards.
- FR: Vidéos pratiques sur cultures de couverture et agroécologie.
- Video pratici su coperture vegetali, siepi e agroecologia nei vigneti.
- IT: Video pratici su coperture vegetali, siepi e agroecologia nei vigneti.
- SR: Praktični video materijali o pokrovnim usevima, živim ogradama i agroekologiji u vinogradima.

## 3.2 Energy Transition in the Wine Industry

### 58. US DOE – Renewable energy guides for wineries / solar

**Web:** <https://www.energy.gov/eere/solar/solar-energy-wineries>

**Languages:** EN

**Free:**  Yes

- ES: Guías técnicas y casos para instalación solar en bodegas y ahorro energético.
- EN: Technical guides and case studies on solar installations and energy saving for wineries.
- FR: Guides techniques et études de cas sur solaire en caves.
- IT: Guide tecniche e casi per l'installazione di sistemi solari in cantine e risparmio energetico.
- SR: Tehnički vodiči i studije slučaja o solarnim instalacijama i uštedi energije za vinarije.

### 59. Enel Green Power – energy audits & cases

**Web:** <https://www.enelgreenpower.com/>

**Languages:** EN / IT

**Free:**  Partial (information)

- ES: Informes y casos sobre auditorías energéticas y transición a renovables.
- EN: Reports and case studies on energy audits and renewables switch.
- FR: Rapports et cas sur audits énergétiques et renouvelables.
- IT: Relazioni e casi su audit energetici e transizione alle rinnovabili.
- SR: Izveštaji i studije slučaja o energetske revizijama i prelasku na obnovljive izvore energije.

### 60. Biomass Magazine (applications)

**Web:** <https://biomassmagazine.com/>

**Languages:** EN

**Free:**  Yes (publications)

- ES: Artículos sobre uso de biomass para calor y valorización de subproductos vitícolas.
- EN: Articles on biomass use for heat generation and pomace valorisation in wineries.
- FR: Articles sur utilisation de biomasse pour chaleur et valorisation des sous-produits.
- IT: Articoli sull'uso della biomassa per il calore e la valorizzazione dei sottoprodotti viticoli.
- SR: Članci o upotrebi biomase za proizvodnju toplote i valorizaciju ostataka grožđa u vinarijama.

### 61. IRENA – Clean energy resources

**Web:** <https://www.irena.org/>

**Languages:** EN

**Free:**  Yes

- ES: Recursos globales sobre tecnologías limpias y estrategias energéticas aplicables al sector.
- EN: Global resources on clean tech and energy transition strategies for agri-food sectors.
- FR: Ressources globales sur technologies propres et transition énergétique.
- IT: Risorse globali su tecnologie pulite e strategie energetiche applicabili al settore.
- SR: Globalni resursi o čistim tehnologijama i strategijama energetske tranzicije za agro-prehrambene sektore.

## 62. Ecovinegoals

**Web:** <https://giam.zrc-sazu.si/en/programi-in-projekti/ecovinegoals-ekolosko-upravljanje-z-vinogradi-in-aktivnosti-za-pokrajinske>

**Languages:** EN / ES / FR / SR

**Free:**  Yes

- ES: Proyecto europeo que promueve la gestión ecológica de viñedos y la sostenibilidad del paisaje.
- EN: European project promoting ecological vineyard management and landscape sustainability.
- FR: Projet européen promouvant la gestion écologique des vignobles et la durabilité des paysages.
- IT: Risorse globali su tecnologie pulite e strategie energetiche applicabili al settore.
- SR: Progetto europeo che promuove la gestione ecologica dei vigneti e la sostenibilità del paesaggio.

### 3.3 Case Studies on Sustainable Viticulture

#### 63. Castel Winery – sustainability cases (France)

**Web:** <https://www.castel-freres.com/>

**Languages:** EN / FR

**Free:**  Yes (information)

- ES: Casos de implementación de prácticas sostenibles a gran escala en grupos vitivinícolas.
- EN: Cases of scaled sustainability implementation in commercial wine groups.
- FR: Exemples d'implantation de pratiques durables à grande échelle.
- IT: Casi di implementazione di pratiche sostenibili su ampia scala in gruppi vitivinicoli.
- SR: Primeri primene održivosti u većem obimu u komercijalnim vinskim grupama.

#### 64. Bodegas Torres – sustainability reports (Spain)

**Web:** <https://www.torres.es/>

**Languages:** EN / ES

**Free:**  Yes (reviews)

- ES: Informes públicos sobre energía, agua, reducción de emisiones y certificaciones sostenibles.
- EN: Public sustainability reports on energy, water and emissions reduction.
- FR: Rapports publics sur durabilité, énergie et eau.
- IT: Relazioni pubbliche su energia, acqua, riduzione delle emissioni e certificazioni sostenibili.
- SR: Javni izveštaji o održivosti koji pokrivaju energiju, vodu i smanjenje emisija.

### 65. Cloudy Bay – environmental projects (NZ)

**Web:** <https://www.cloudybay.co.nz/>

**Languages:** EN

**Free:**  Yes (examples)

- ES: Proyectos ambientales y de reducción de huella en viñedos costeros de Nueva Zelanda.
- EN: Environmental management and footprint reduction projects in coastal NZ vineyards.
- FR: Projets environnementaux dans vignobles côtiers de NZ.
- IT: Progetti ambientali e di riduzione dell'impronta nei vigneti costieri della Nuova Zelanda.
- SR: Projekti upravljanja životnom sredinom i smanjenja ekološkog otiska u vinogradima na obali Novog Zelanda.

### 66. Concha y Toro – sustainability (Chile)

**Web:** <https://www.conchaytoro.com/>

**Languages:** EN / ES

**Free:**  Yes (reports)

- ES: Documentación pública sobre adaptación climática, recursos hídricos y certificaciones.
- EN: Public documentation about climate adaptation, water management and certifications.
- FR: Documentation publique sur adaptation climatique et gestion de ressources.
- IT: Documentazione pubblica su adattamento climatico, risorse idriche e certificazioni.
- SR: Javno dostupna dokumentacija o prilagođavanju klimatskim promenama, upravljanju vodom i sertifikacijama.

### 67. Domaine de la Romanée-Conti – biodynamic examples (France)

**Web:** <https://www.romanee-conti.fr/>

**Languages:** FR

**Free:**  Yes (informative material)

- ES: Ejemplo de viticultura biodinámica centrada en salud del suelo y calidad de producto.
- EN: Example of biodynamic viticulture focused on soil health and wine quality.
- FR: Exemple de viticulture biodynamique axée sur santé du sol.
- IT: Esempio di viticoltura biodinamica incentrata sulla salute del suolo e sulla qualità del prodotto.
- SR: Primer biodinamičkog vinogradarstva fokusiranog na zdravlje zemljišta i kvalitet vina.

## 68. Agro-Environmental Practices and Business Performance in the Wine Sector

**Web:** <https://www.mdpi.com/2077-0472/12/2/239>

**Languages:** EN, FR, ES, SR

**Free:**  Yes

- ES: Estudio que analiza cómo las prácticas agroambientales afectan el desempeño empresarial en el sector del vino.
  - EN: Study analyzing how agro-environmental practices impact business performance in the wine sector.
  - FR: Étude analysant comment les pratiques agroenvironnementales influencent la performance économique dans le secteur viticole.
  - IT: Esempio di viticoltura biodinamica incentrata sulla salute del suolo e sulla qualità del prodotto.
  - SR: Studio che analizza l'impatto delle pratiche agroecologiche sulle performance aziendali nel settore vitivinicolo.
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## M4 — New Products & Business Models in Viticulture

### 4.1 New Innovative Products

#### 69. Grapeskin Extracts – University of Murcia (research)

**Webs:** <https://www.um.es/> <https://scispace.com/authors/encarna-gomez-plaza-rbx3oi57fp> <https://pubmed.ncbi.nlm.nih.gov/25977002/>

**Languages:** EN / ES

**Free:**  Yes (publications)

- ES: Investigación sobre valorización de hollejos y subproductos para usos en alimentos y cosmética.
- EN: Research on valorising grape skins and pomace for antioxidants and cosmetic uses.
- FR: Recherche sur valorisation des peaux et marcs pour antioxydants.
- IT: Ricerca sulla valorizzazione delle vinacce e sottoprodotti per usi in alimenti e cosmetica.
- SR: Istraživanja o valorizaciji kožica grožđa i ostataka grožđa za dobijanje antioksidanata i upotrebu u kozmetici.

#### 70. Non-alcoholic wine trends – industry guides

**Web:** [https://www.vinetur.com/documentos/article/88052/Report\\_%20Rise%20of%20Non-Alcoholic%20Wines.pdf](https://www.vinetur.com/documentos/article/88052/Report_%20Rise%20of%20Non-Alcoholic%20Wines.pdf)

**Languages:** EN

**Free:**  Yes (information)

- ES: Información sobre desarrollo de productos alternativos y tendencias de consumo.
- EN: Insights on the development and market of non-alcoholic wine alternatives.
- FR: Informations sur tendances du marché des vins sans alcool.
- IT: Informazioni sullo sviluppo di prodotti alternativi e tendenze di consumo.
- SR: Uvidi u razvoj i tržište bezalkoholnih vinskih alternativa.

#### 71. Wine Meridian (Italy) – Innovation & Market Insights

**Web:** <https://www.winemeridian.com/>

**Languages:** EN / IT

**Free:**  Yes

- ES: Revista italiana en línea sobre marketing del vino, innovación y exportación; incluye entrevistas y videos educativos.
  - EN: Italian online magazine on wine marketing, innovation and export; includes interviews and educational videos.
  - FR: Magazine italien en ligne sur le marketing du vin, l'innovation et l'exportation; comprend des interviews et des vidéos éducatives.
  - IT: Rivista italiana online sul marketing del vino, l'innovazione e l'exportazione; include interviste e video educativi.
- SR: Mogućnosti za kreiranje novih proizvoda za poboljšanje zemljišta i Italijanski onlajn časopis o marketingu vina, inovacijama i izvozu; uključuje intervju i obrazovne video snimke.

## 72. Associazione Nazionale Città del Vino

**Web:** <https://www.cittadelvino.it/>

**Languages:** IT

**Free:**  Yes

- ES: Red nacional de ciudades del vino que promueve el enoturismo, la sostenibilidad y el patrimonio cultural.
- EN: National network of wine towns promoting wine tourism, sustainability, and cultural heritage.
- FR: Réseau national de villes du vin promouvant l'œnotourisme, la durabilité et le patrimoine culturel.
- IT: Rete nazionale delle città del vino che promuove l'enoturismo, la sostenibilità e il patrimonio culturale.
- SR: Nacionalna mreža vinskih gradova koja promovise vinski turizam, održivost i kulturno nasleđe.

## 73. Biochar applications for vineyards (info)

**Web:** <https://www.biochar-international.org/>

**Languages:** EN

**Free:**  Yes

- ES: Posibilidades de crear nuevos productos de enmienda de suelo y secuestro de carbono.
- EN: Opportunities to develop soil amendment products and carbon sequestration solutions.
- FR: Opportunités de créer produits amendement et séquestration carbone.
- IT: Possibilità di creare nuovi prodotti per il miglioramento del suolo e il sequestro del carbonio.
- SR: Mogućnosti za razvoj proizvoda za poboljšanje zemljišta i rešenja za sekvestraciju ugljenika.

## 74. Urban viticulture projects / small-scale (example)

**Web:** <https://urbangardensweb.com/>

**Languages:** EN

**Free:**  Yes

- ES: Modelos de producto y experiencias locales derivados de proyectos de viticultura urbana.
- EN: Models for small-scale wine products & local experiences from urban viticulture projects.
- FR: Modèles pour petits produits locaux issus viticulture urbaine.
- IT: Modelli di prodotto ed esperienze locali derivanti da progetti di viticoltura urbana.
- SR: Modeli za lokalne vinske proizvode i lokalna iskustva iz urbanih vinogradarskih projekata.

### 75. Wine tourism digital tools & conference materials

**Web:** <https://www.winetourismconference.com/>

**Languages:** EN

**Free:**  Partial (webinars/information)

- ES: Recursos y ponencias para diseñar experiencias turísticas digitales y sostenibles.
- EN: Resources & talks for designing digital & sustainable wine tourism experiences.
- FR: Ressources pour concevoir expériences œnotourisme numériques et durables.
- IT: Risorse e conferenze per progettare esperienze turistiche digitali e sostenibili.
- SR: Resursi i predavanja za dizajniranje digitalnih i održivih iskustava u vinskom turizmu.

### 76. Circular economy briefs (EU)

**Web:** <https://circulareconomy.europa.eu/>

**Languages:** EN / ES / FR

**Free:**  Yes

- ES: Orientación para incorporar economía circular en bodega: envases, subproductos y logística.
- EN: Guidance for circular economy implementation in wineries: packaging, by-products, logistics.
- FR: Orientation pour économie circulaire en caves.
- IT: Orientamenti per integrare l'economia circolare in cantina: packaging, sottoprodotti e logistica.
- SR: Smernice za integraciju cirkularne ekonomije u vinarijama: pakovanja, nusproizvodi i logistika.

## 4.2 Wine Tourism as a Business Model

### 77. Wine Tourism Network

**Web:** <https://winetourismnetwork.com/>

**Languages:** EN

**Free:**  Partial

- ES: Comunidad con artículos y herramientas para profesionalizar el enoturismo.
- EN: Community with articles & tools to professionalize wine tourism.
- FR: Communauté avec ressources pour professionnalisation œnotourisme.
- IT: Comunità con articoli e strumenti per professionalizzare l'enoturismo.
- SR: Zajednica sa člancima i alatima za profesionalizaciju vinskog turizma.

### 78. EU / OECD wine tourism playbooks

**Web:** <https://ec.europa.eu/> / <https://www.oecd.org/>

**Languages:** EN / ES / FR

**Free:**  Yes

- ES: Guías para integrar enoturismo en estrategias regionales y de diversificación económica.
- EN: Guides to integrate wine tourism into regional development and diversification strategies.
- FR: Guides pour intégrer oenotourisme aux politiques régionales.
- IT: Guide per integrare l'enoturismo in strategie regionali e di diversificazione economica.
- SR: Vodiči za integraciju vinskog turizma u strategije regionalnog razvoja i diverzifikacije.

### 79. Digital marketing & DTC strategies (LinkedIn / YouTube resources)

**Web:** <https://www.linkedin.com/> / <https://www.youtube.com/>

**Languages:** EN / ES

**Free:**  Yes

- ES: Cursos y tutoriales para implementar estrategias DTC, storytelling y comercio electrónico en bodegas.
- EN: Tutorials and courses on DTC, storytelling and e-commerce strategies for wineries.
- FR: Tutoriels et ressources pour vente directe et storytelling.
- IT: Corsi e tutorial per implementare strategie DTC, storytelling e e-commerce nelle cantine.
- SR: Tutorijali i kursevi o direktnoj prodaji (DTC), pričanju priča i strategijama e-trgovine za vinarije.

## 4.3 Sales Strategies for New Products

### 80. Wine marketing toolkits / green marketing guides

**Web:** <https://www.greenmarketinginstitute.com/>

**Languages:** EN

**Free:**  Partial

- ES: Plantillas y guías para comunicar atributos sostenibles y trazabilidad del producto.
- EN: Toolkits to communicate sustainable attributes and product traceability.
- FR: Outils pour communiquer durabilité et traçabilité.
- IT: Modelli e guide per comunicare attributi sostenibili e tracciabilità del prodotto.
- SR: Alati za komunikaciju održivih karakteristika i praćenja proizvoda.

### 81. Global Wine Score / market data (basic)

**Web:** <https://globalwinescore.com/>

**Languages:** EN

**Free:**  Partial (basic data)

- ES: Indicadores y comparadores para posicionar vinos en mercados internacionales.
- EN: Scoring and comparison tools to position wines in international markets.
- FR: Outil de comparaison pour positionner vins.
- IT: Indicatori e comparatori per posizionare i vini sui mercati internazionali.
- SR: Indikatori i poređenja za pozicioniranje vina na međunarodnim tržištima.

### 82. Wine Business Monthly / WineTech conference materials

**Web:** <https://www.winebusiness.com/> / <https://www.winetechconference.com/>

**Languages:** EN

**Free:**  Partial (articles / presentations)

- ES: Noticias y ponencias sobre tecnología, comercialización y modelos de negocio en el sector.
  - EN: Industry news and conference talks on technology, marketing and business models.
  - FR: Actualités et conférences sur technologie et marketing vin.
  - IT: Notizie e conferenze su tecnologia, commercializzazione e modelli di business nel settore.
  - SR: Industrijske vesti i konferencijski govori o tehnologiji, marketingu i poslovnim modelima.
-

## Cross-cutting resources, data, communities and various tools (up to 115)

### 83. AWRI – Australian Wine Research Institute (resources & webinars)

**Web:** <https://www.awri.com.au/>

**Languages:** EN

**Free:**  Yes (resources)

- ES: Investigación aplicada, notas técnicas, podcasts y webinars sobre viticultura y enología.
- EN: Applied research, technical notes, podcasts and webinars on viticulture and enology.
- FR: Recherche appliquée, notes techniques et webinaires.
- IT: Ricerca applicata, note tecniche, podcast e webinar su viticoltura ed enologia.
- SR: Primenjeno istraživanje, tehničke beleške, podkasti i vebinari o vinogradarstvu i enologiji.

### 84. Wine Australia – Knowledge Hub

**Web:** <https://www.wineaustralia.com/>

**Languages:** EN

**Free:**  Yes

- ES: Recursos sectoriales, datos de mercado y herramientas prácticas para viticultores y bodegas.
- EN: Sector resources, market data and practical tools for growers and wineries.
- FR: Ressources sectorielles et données marché.
- IT: Risorse settoriali, dati di mercato e strumenti pratici per viticoltori e cantine.
- SR: Sektorski resursi, tržišni podaci i praktični alati za vinogradare i vinarije.

### 85. Vinehealth Australia

**Web:** <https://www.vinehealth.com.au/>

**Languages:** EN

**Free:**  Yes

- ES: Alertas de bioseguridad, plagas y medidas preventivas para viñedos australianos.
- EN: Biosecurity, pest alerts and prevention measures for Australian vineyards.
- FR: Informations biosécurité et alertes parasites.
- IT: Allarmi di biosicurezza, parassiti e misure preventive per i vigneti australian.
- SR: Bionadzor, upozorenja na štetočine i mere prevencije za australijske vinograde.

### 86. CSIRO Agriculture and Food (Australia)

**Web:** <https://www.csiro.au/>

**Languages:** EN

**Free:**  Yes (publications)

- ES: Investigación sobre resiliencia de cultivos, efectos climáticos y producción.
- EN: Research on crop resilience, climate impacts and agricultural production.
- FR: Recherche sur résilience des cultures et impacts climatiques.
- IT: Ricerche sulla resilienza delle colture, effetti climatici e produzione.
- SR: Istraživanje o otpornosti useva, klimatskim uticajima i poljoprivrednoj proizvodnji.

### 87. BRI – Bragato Research Institute (NZ)

**Web:** <https://bri.co.nz/>

**Languages:** EN

**Free:**  Yes

- ES: Informes y consejos técnicos sobre viticultura sostenible y adaptación.
- EN: Reports and technical advice on sustainable viticulture and adaptation.
- FR: Rapports et conseils techniques sur viticulture durable.
- IT: Relazioni e consigli tecnici sulla viticoltura sostenibile e adattamento.
- SR: Izveštaji i tehnički saveti o održivom vinogradarstvu i prilagođavanju.

### 88. Plant & Food Research (New Zealand)

**Web:** <https://www.plantandfood.co.nz/>

**Languages:** EN

**Free:**  Yes (publications)

- ES: Estudios sobre fisiología de la vid, climas y variedades resistentes.
- EN: Studies on vine physiology, cultivars and climate resilience.
- FR: Études sur physiologie de la vigne et résilience climatique.
- IT: Studi sulla fisiologia della vite, climi e varietà resistenti.
- SR: Studije o fiziologiji vinove loze, sortama i otpornosti na klimatske promene.

### 89. Climate Vine / Climate Vine Initiative

**Web:** <https://www.climatevine.org/>

**Languages:** EN

**Free:**  Yes

- ES: Plataforma con datos y visualizaciones sobre impactos climáticos en viticultura.
- EN: Platform with data and visualisations on climate impacts to viticulture.
- FR: Plateforme avec données et visualisations sur impacts climatiques.
- IT: Piattaforma con dati e visualizzazioni sugli impatti climatici nella viticoltura.
- SR: Platforma sa podacima i vizuelizacijama uticaja klimatskih promena na vinogradarstvo.

### 90. Wine & Climate Toolkit

**Web:** <https://wineclimatetoolkit.org/>

**Languages:** EN

**Free:**  Yes

- ES: Herramientas para planificar mitigación y adaptación frente al cambio climático en bodegas.
- EN: Toolkit to help plan mitigation and adaptation measures for wineries.
- FR: Boîte à outils pour planifier mitigation et adaptation.
- IT: Strumenti per pianificare mitigazione e adattamento al cambiamento climatico nelle cantine.
- SR: Alati za planiranje mitigacije i adaptacije na klimatske promene u vinarijama.

### 91. European Climate Foundation – wine sector materials

**Web:** <https://europeanclimate.org/>

**Languages:** EN

**Free:**  Yes

- ES: Análisis y recomendaciones de políticas sobre transición climática en sectores como el vino.
- EN: Analyses and policy recommendations on climate transition for sectors including wine.
- FR: Analyses et recommandations politiques sur transition climatique.
- IT: Analisi e raccomandazioni politiche sulla transizione climatica nel settore del vino.
- SR: Analize i preporuke politika o klimatskoj tranziciji za sektore, uključujući vino.

### 92. Sustainability Victoria – Viticulture guides

**Web:** <https://www.sustainability.vic.gov.au/>

**Languages:** EN

**Free:**  Yes

- ES: Guías para reducción de emisiones y eficiencia de recursos en viñedos.
- EN: Guides for emissions reduction and resource efficiency in vineyards.
- FR: Guides pour réduction d'émissions et efficience.
- IT: Guide per la riduzione delle emissioni e l'efficienza delle risorse nei vigneti.
- SR: Vodiči za smanjenje emisija i efikasnost resursa u vinogradima.

### 93. UNFCCC – Agriculture & climate

**Web:** <https://unfccc.int/topics/agriculture>

**Languages:** EN

**Free:**  Yes

- ES: Recursos globales sobre adaptación y mitigación aplicables a agricultura y viñedos.
- EN: Global adaptation & mitigation resources relevant to agriculture and vineyards.
- FR: Ressources globales sur adaptation et mitigation en agriculture.
- IT: Risorse globali su adattamento e mitigazione applicabili all'agricoltura e ai vigneti.
- SR: Globalni resursi za adaptaciju i ublažavanje relevantni za poljoprivredu i vinograde.

### 94. Copernicus Climate Data Store (CDS)

**Web:** <https://cds.climate.copernicus.eu/>

**Languages:** EN

**Free:**  Yes

- ES: Reanálisis (ERA5) y otras variables climáticas útiles para modelado vitícola.
- EN: Climate reanalysis datasets (ERA5) useful for viticulture modelling.
- FR: Données de réanalyse climatique utiles pour modélisation viticole.
- IT: Rianalisi (ERA5) e altre variabili climatiche utili per modelli viticoli.
- SR: Skupovi podataka klimatske reanalize (ERA5) korisni za modelovanje u vinogradarstvu.

### 95. GBIF – Global Biodiversity Information Facility

**Web:** <https://www.gbif.org/>

**Languages:** EN

**Free:**  Yes

- ES: Datos de ocurrencia de especies para planificar plantaciones de biodiversidad y fomentar enemigos naturales.
- EN: Species occurrence data for planning biodiversity plantings and natural enemies.
- FR: Données d'occurrence d'espèces pour planifier corridors de biodiversité.
- IT: Dati sulla presenza di specie per pianificare piantagioni di biodiversità e favorire nemici naturali.
- SR: Podaci o pojavi vrsta za planiranje sadnje biodiverziteta i prirodnih neprijatelja (štetočina).

### 96. Cool Farm Tool (methodology & reading)

**Web:** <https://coolfarmtool.org/>

**Languages:** EN

**Free:**  Partial

- ES: Metodologías para estimar huella de carbono y rendir cuentas en cadena agrícola.
- EN: Methodology to estimate GHG footprints and account for ag supply chains.
- FR: Méthodologie pour estimer empreinte GES des chaînes agricoles.
- IT: Metodologie per stimare l'impronta di carbonio e rendicontare nelle filiere agricole.
- SR: Metodologija za procenu otisaka gasova sa efektom staklene bašte (GHG) i obračun za lance snabdevanja u poljoprivredi.

### 97. FAO WaPOR (water productivity via RS)

**Web:** <https://wapor.apps.fao.org/>

**Languages:** EN / ES

**Free:**  Yes

- ES: Mapas de ET y productividad hídrica vía satélite para calibrar riego y eficiencia.
- EN: Satellite ET & water productivity maps for irrigation calibration.
- FR: Cartes ET satellitaires pour productivité en eau.
- IT: Mappe di ET e produttività idrica via satellite per calibrare l'irrigazione e l'efficienza.
- SR: Satelitske mape evapotranspiracije (ET) i produktivnosti vode za kalibraciju navodnjavanja.

### 98. Climate-ADAPT (EU adaptation platform)

**Web:** <https://climate-adapt.eea.europa.eu/>

**Languages:** EN + Multilingual

**Free:**  Yes

- ES: Buenas prácticas de adaptación aplicables a regiones vitícolas europeas.
- EN: Adaptation good practices applicable to European wine regions.
- FR: Bonnes pratiques d'adaptation pour régions viticoles.
- IT: Best practice di adattamento applicabili alle regioni viticole europee.
- SR: Dobre prakse prilagođavanja primenljive na evropske vinske regione.

### 99. OpenAerialMap (community aerial imagery)

**Web:** <https://openaerialmap.org/>

**Languages:** EN

**Free:**  Yes

- ES: Repositorio de imágenes aéreas comunitarias útil para mapeo local.
- EN: Community-shared aerial imagery useful for local mapping.
- FR: Imagerie aérienne communautaire utile pour cartographie.
- IT: Repository di immagini aeree comunitarie utili per la mappatura locale.
- SR: Zajednički korišćeni vazdušni snimci korisni za lokalno mapiranje.

### 100. USGS Earth Explorer (Landsat / SRTM)

**Web:** <https://earthexplorer.usgs.gov/>

**Languages:** EN

**Free:**  Yes

- ES: Acceso a series satelitales históricas y DEMs para análisis de pendientes y cambios.
- EN: Access to historical satellite time-series and DEMs for slope & change analysis.
- FR: Accès à séries satellites historiques et DEM pour analyses.
- IT: Accesso a serie storiche satellitari e DEM per analisi di pendenze e cambiamenti.
- SR: Pristup istorijskim satelitskim vremenskim serijama i DEM-ovima (digitalni elevacioni modeli) za analizu nagiba i promena.

### 101. Google Earth Engine (research access)

**Web:** <https://earthengine.google.com/>

**Languages:** EN

**Free:**  Yes (for research)

- ES: Plataforma cloud para análisis masivo de series satelitales y modelado.
- EN: Cloud platform for large-scale satellite time-series analysis and modelling.
- FR: Plateforme cloud pour analyse temporelle satellite.
- IT: Piattaforma cloud per analisi massiva di serie satellitari e modellizzazione.
- SR: Cloud platforma za analizu i modelovanje satelitskih vremenskih serija velikih razmera.

### 102. **OpenDroneMap / WebODM (UAV processing)**

**Web:** <https://www.opendronemap.org/>

**Languages:** EN

**Free:**  Yes (open-source)

- ES: Software libre para generar ortofotos y modelos 3D desde vuelos con drones.
- EN: Open-source tool to produce orthomosaics and 3D models from UAV imagery.
- FR: Outil open-source pour orthomosaïques et modèles 3D.
- IT: Piattaforma cloud per analisi massiva di serie satellitari e modellizzazione.
- SR: Alat otvorenog koda za izradu ortomozaika i 3D modela od snimaka bespilotnih letelica (UAV).

### 103. **Leaflet / MapLibre (web mapping libs)**

**Web:** <https://leafletjs.com/> / <https://maplibre.org/>

**Languages:** EN

**Free:**  Yes (open-source)

- ES: Librerías para crear mapas interactivos y aplicaciones de geovisualización.
- EN: Libraries to build interactive web maps and geovisualisations.
- FR: Bibliothèques pour créer cartes web interactives.
- IT: Piattaforma cloud per analisi massiva di serie satellitari e modellizzazione.
- SR: Biblioteke za izradu interaktivnih veb mapa i geovizualizacija

### 104. **Kepler.gl (no-code geovisualization)**

**Web:** <https://kepler.gl/>

**Languages:** EN

**Free:**  Yes

- ES: Herramienta sin código para visualizar rutas, datos de cosecha y KPIs espaciales.
- EN: No-code tool to visualise routes, harvest data and spatial KPIs.
- FR: Outil sans code pour visualisation géospatiale.
- IT: Strumento senza codice per visualizzare percorsi, dati di raccolta e KPIs spaziali.
- SR: : Alat bez kodiranja za vizualizaciju ruta, podataka o berbi i prostornih KPI-jeva.

### 105. **OpenET (evapotranspiration data, US regions)**

**Web:** <https://openetdata.org/>

**Languages:** EN

**Free:**  Yes (US regions)

- ES: Datos ET por satélite para estimar evapotranspiración real y optimizar riego.
- EN: Satellite-based ET data to estimate actual evapotranspiration for irrigation optimization.
- FR: Données ET satellitaires pour estimer évapotranspiration réelle.
- IT: Dati ET satellitari per stimare l'evapotraspirazione reale e ottimizzare l'irrigazione.
- SR: Satelitski podaci o evapotranspiraciji (ET) za procenu stvarne evapotranspiracije u svrhu optimizacije navodnjavanja.

### 106. **GitHub – precision ag repos & notebooks**

**Web:** <https://github.com/>

**Languages:** EN

**Free:**  Yes

- ES: Repositorios con notebooks y scripts para NDVI, clustering y modelos de rendimiento.
- EN: Repos with notebooks & scripts for NDVI processing and yield models.
- FR: Repos avec notebooks et scripts pour NDVI et modèles de rendement.
- IT: Repository con notebook e script per NDVI, clustering e modelli di resa.
- SR: Repozitorijumi sa beležnicama i skriptama za NDVI obradu i modele prinosa.

### 107. **YouTube educational playlists — Precision Viticulture**

**Web:** <https://www.youtube.com/>

**Languages:** EN / ES / FR

**Free:**  Yes

- ES: Playlists con tutoriales sobre drones, índices de vegetación y sensores.
- EN: Playlists with tutorials on drones, vegetation indices and sensors.
- FR: Playlists de tutoriels sur drones et NDVI.
- IT: Playlist con tutorial su droni, indici di vegetazione e sensori.
- SR: Plejliste sa tutorijalima o dronovima, indeksima vegetacije i senzorima.

### 108. Coursera / edX (audit mode) – data / GIS courses

**Web:** <https://www.coursera.org/> / <https://www.edx.org/>

**Languages:** EN + Multilingual

**Free:**  Yes

- ES: MOOCS de ciencia de datos, SIG y modelización que se pueden auditar gratis.
- EN: MOOCs in data science and GIS that can be audited for free.
- FR: MOOCs en science des données et SIG auditable gratuitement.
- IT: MOOCS di data science, GIS e modellizzazione auditabili gratuitamente.
- SR: MOOC-ovi iz nauke o podacima i GIS-a koji se mogu besplatno pohadati.

### 109. ResearchGate & ScienceDirect (open access articles)

**Web:** <https://www.researchgate.net/> / <https://www.sciencedirect.com/>

**Languages:** EN + Multilingual

**Free:**  Partial (OA articles)

- ES: Plataformas para acceder a literatura científica; muchos artículos de viticultura son OA.
- EN: Platforms to access scientific literature; many viticulture articles are open access.
- FR: Plateformes pour accéder aux articles scientifiques (certains OA).
- IT: Piattaforme per accedere alla letteratura scientifica; molti articoli viticoli sono OA.
- SR: Platforme za pristup naučnoj literaturi; mnogi članci o vinogradarstvu su otvorenog pristupa.

### 110. Vertex42 – Excel templates for vineyard management

**Web:** <https://www.vertex42.com/ExcelTemplates/vineyard-management.html>

**Languages:** EN

**Free:**  Yes

- ES: Plantillas Excel para calendario, costes y planificación de viñedos.
- EN: Excel templates for calendars, cost tracking and vineyard planning.
- FR: Modèles Excel pour gestion et planification.
- IT: Modelli Excel per calendario, costi e pianificazione dei vigneti.
- SR: Eksel šabloni za kalendare, praćenje troškova i planiranje vinograda.

### 111. Google Earth Pro (desktop)

**Web:** <https://www.google.com/earth/versions/>

**Languages:** EN + Multilingual

**Free:**  Yes

- ES: Inspección visual y medición de parcelas, pendientes y elementos del paisaje.
- EN: Visual inspection and measurement of parcels, slopes and landscape features.
- FR: Inspection visuelle et mesures de parcelles et pentes.
- IT: Ispezione visiva e misurazione delle parcelle, pendenze ed elementi del paesaggio.
- SR: Vizuelni pregled i merenje parcela, nagiba i karakteristika pejzaža.

### 112. QGIS (GIS open source)

**Web:** <https://qgis.org/>

**Languages:** EN + Multilingual

**Free:**  Yes

- ES: GIS completo para zonificación, análisis topográfico e integración de datos de sensores.
- EN: Full GIS for zoning, slope analysis and sensor data integration.
- FR: Logiciel SIG complet pour zonage et intégration de données.
- IT: GIS completo per zonizzazione, analisi topografica e integrazione dati da sensori.
- SR: Potpuni GIS za zoniranje, analizu nagiba i integraciju senzorskih podataka.

### 113. Trello (project management)

**Web:** <https://trello.com/>

**Languages:** EN + Multilingual

**Free:**  Yes

- ES: Organización de tareas y seguimiento de proyectos de viñedo y bodega.
- EN: Task organisation and project tracking for vineyard teams.
- FR: Organisation et suivi des tâches pour équipes.
- IT: Organizzazione di compiti e monitoraggio progetti di vigneto e cantina.
- SR: Organizacija zadataka i praćenje projekata za vinogradarske timove.

#### 114. **Canva (design for communications)**

**Web:** <https://www.canva.com/>

**Languages:** EN + Multilingual

**Free:**  Yes

- ES: Creación de materiales de marketing, redes y comunicación para bodegas.
- EN: Create marketing and communication materials for wineries.
- FR: Création de supports marketing et communication.
- IT: Creazione di materiali di marketing, reti e comunicazione per le cantine.
- SR: Izrada marketinškog i komunikacionog materijala za vinarije.

#### 115. **GlobalG.A.P. / Organic & certification info (info pages)**

**Web:** <https://www.globalgap.org/>

**Languages:** EN + Multilingual

**Free:**  Partial (public information)

- ES: Información y requisitos para certificaciones de producción responsable; material público consultable.
  - EN: Info on standards and requirements for responsible production certifications—public information available.
  - FR: Informations sur normes et exigences pour certifications de production responsable.
  - IT: Informazioni e requisiti per certificazioni di produzione responsabile; materiale pubblico consultabile.
  - SR: Informacije o standardima i zahtevima za sertifikaciju odgovorne proizvodnje—javno dostupne informacije.
-