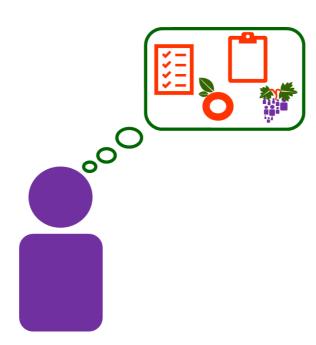




PEsticide Reduction using Friendly and Environmentally Controlled Technologies LIFE/17/ENV/ES/000205



ACTION D1 Dissemination planning and execution

SUB-ACTION D1.2 Organization of specific events and networking with other projects

Deliverable D1.4 Report of the Info-days and presentations events of the PERFECT Life project

















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1 EXECUTIVE SUMMARY

The present deliverable (D1.4) has been prepared with the aim of demonstrating the continuous and active participation of the partners of the consortium in different meetings and events with diverse stakeholders.

Different actions and events have been conducted, in the areas where the PERFECT Life project is taking place, in order to ensure a proper and effective dissemination of the project among Public Actors (Regional, National and European Institution), pesticides and related sector industry, (manufactures, companies of services and their associations e.g.: AEPLA, ECPA, AGROPHARMA, etc), farmers, academic and research institutions, etc.

2 INTRODUCTION

The PERFECT Life Project has organized info-days and dissemination events to spread the project activities and objectives to different stakeholders around the regions where the project is taking place.

The present document summarized all the important events organized the first year of the project in Spain, France and Italy from the beginning of the project, on first of September 2018, till the Progress Report delivered to the UE agency on 30th September 2019.

Besides the organized info-days and demonstration-days, the present document shows some other event we consider to be highlighted. The members of the project have participated in different events like meetings with related EU projects or networking days and will be shown in the following report.

3 Specific info-days and events in the regions where the project works.

3.1 Info-day and presentation event of the project in Valencia, Spain (29th October 2018)

The Info-day and presentation event of the PERFECT Life project took place, the 29th of October 2018, at the headquarters of the Regional Government of Agriculture, Environment, Climate Change and Rural Development (Conselleria Valenciana de Agricultura, Medioambiente, Cambio Climático y Desarrollo Rural) in the city of Valencia, Spain. As can be seen in the picture of figure 1 the room was crowded, a total of 51 people was registered and signed in the front desk (some of the participants arrived late or without pre-registration and were not listed). The attendees came from different sectors as researchers, technicians, members of agriculture cooperatives, private companies and public authorities.



Figure 1. Presentation of the PERFECT Life Project at the headquarters of the Regional Government of Agriculture, Environment, Climate Change and Rural Development (Conselleria Valenciana de Agricultura, Medioambiente, Cambio Climático y Desarrollo Rural) in Valencia, Spain. 29th October 2018.

The Spanish version of the PERFECT Life project leaflet was distributed to all the participants at the registration desk and a poster was situated in front of the door of the meeting room as can be seen in the pictures of figure 2.



Figure 2. Poster, leaflets and some dissemination material at the door and the front desk of the meeting room at the presentation and info-day event of the PERFECT Life project in Valencia, Spain. 29th October 2018.

The program of the infoday (Annexe 1) involved 4 specific presentations of different activities of the project that were conducted by representants of each instituition: Dr. Amalia Muñoz from CEAM, Dr. Olga Pardo from FISABIO, Dr. Patricia Chueca from IVIA and Mr. Egon Cervera from CACV. Besides, taking the opportunity to networking, four presentations of other EU funded projects with related topics to PERFECT were presented. In addition, Elena Cebrian, the Head of the Regional Government of Agriculture, Environment, Climate Change and Rural Development, opened and welcomed the event; and four authorities from different public entities presented and highlighted the goodness and potential of the project (figure 3).



Figure 3. From the left to the right of the table: Mr. Cirilo Arnandis Núñez President of the Federation of Agri-Food Cooperatives of the Valencian Community; Mrs. María Teresa Chàfer Nàcher Director-General for Rural Development and Common Agricultural Policy; Mrs. Elena Cebrián Calvo Head of the Regional Government of Agriculture, Environment, Climate Change and Rural Development; Mr. José Vicente Miró Bayarri Deputy Director-General for Climate Change and Environmental Quality; and Mr. Vicent Yusà Pelechà Deputy Director-General for Food Safety and Public Health Laboratories.

Some local partners of the PERFECT project from the Valencian entities assisted to the meeting as can be seen in the picture of figure 4.



Figure 4. Some local partners of the PERFECT project from the Valencian entities involved in the project (CEAM, IVIA, FISABIO, CACV).

Local newspapers and different media attended the event and published news about the event on their respective channels, as can be seen in the screenshots of figure 5.



Figure 5. Screenshots of the published news of the event in the local newspaper "Las Provincias" and the electronical portal dedicated to agriculture and environment "Agronws Comunitat Valenciana".

3.2 Info-day and presentation event of the project in Montpellier, France (18th June 2019)

This Info-day took place the 18th of June 2019, as part of a technical day organized in Montpellier, France. This technical day was the official launch of LABELPULVE, the new French labelling system for wine-growing sprayers based on their performance with stakeholders (authorities, manufacturers, ...). 80 people registered to this technical day:

- 16 people from industry or PPP distribution
- 17 from manufacturers
- 14 from extension services
- 8 from production
- 2 from farmer unions
- 10 from R&D institutes and 4 from authorities
- 5 from press services

The French version of the PERFECT Life project leaflet was distributed to all participants at registration. An innovation stands was also organized (Figure 7), where innovation about spraying were presented, and among them a stand for the PERFECT Life Project.

The program of the technical day and the list of the innovation stands can be seen in Annexe 2 and Annexe 3.

The poster was used to present the project (Figure 6).



Figure 6. Presentation of the PERFECT Life Project by Xavier Delpuech, from IFV. 18th June 2019, Montpellier, France.

Around 10 to 15 people asked for specific information about the PERFECT Life Project (Figure 8).



Figure 7. Overview of the innovation stands area.



Figure 8. People asking for information about the PERFECT Life project.

3.3 Info-day and presentation event of the project in Alba, Italy (10th July 2019)

To maximize the number of contacted people, the info-day was organized jointly with the Italian H2020 Innoseta project workshop. The event was organized in Alba (Cuneo province), the core of the most important vineyard area of Piemonte Region. The goal of the day was to show to stakeholders the latest innovations in the field of pesticides application in vineyards. About 30 technical solutions able to improve the efficacy and precision of PPPs application were presented to the attendees.

To do so, at the workshop venue a PERFECT Life stand was arranged (figure 9). Project poster and brochures were distributed to all participants and information about the PERFECT Life goals and activities were provided to the attendees. About 70 people with different expertise joined the event: field technicians, farmers, winemakers, representatives of farmers organizations, machineries manufacturers, PPPs producers, agronomists, representatives of the public administration.



Figure 9. the venue of the info-day in Alba

The same day, participants were divided into three thematic groups for practical demonstrations in the field (figures 10-12). Demonstrations covered the main topics and goals of the PERFECT Life project.

Working group 1 was informed about the working principles of devices (e.g. test benches) and *DSSs* (e.g. Dosaviña) for sprayers' adjustment and about electronic control systems to enhance the precision of PPPs's application rate.

Working group 2 focused on *solutions* (e.g. anti-drift nozzles, innovative sprayers...) *to reduce drift* and *PPPs' losses in the environment* as well as *DSSs* (e.g. TOPPS drift evaluation tool) *to evaluate the potential drift* according to environmental conditions and operative parameters at application.

Working group 3 were shown devices to reduce point sources pollution during the cleaning of sprayers tanks and *personal protective equipment (PPEs)* to reduce the exposure of operators during pesticides application.



Figure 10. WG1 - field demonstration of devices and tools for sprayers' calibration



Figure 11. WG2 - field demonstration of anti-drift solutions



Figure 12. WG3 - field demonstration of solutions to reduce point sources of pollution and PPEs

4 Other activities of Dissemination and Networking

4.1 Field demonstration

This field demonstration took place the 18th of June 2019, as part of a technical day organized in Montpellier, France. This technical day was the official launch of LABELPULVE, the new French labelling system for wine-growing sprayers based on their performance with stakeholders (authorities, manufacturers, ...). 80 people registered to this technical day:

- 16 people from industry or PPP distribution
- 17 from manufacturers
- 14 from extension services
- 8 from production
- 2 from farmer unions
- 10 from R&D institutes and 4 from authorities
- 5 from press services

The aim of the field demonstration was to demonstrate the interest to use a tunnel sprayer, that is to say a sprayer with recovery panel, in order to reduce drift in comparison with a pneumatic sprayer which are the most used in the south of France (Figure 13).

The field demonstration took place in Montpellier, France, in the French team facilities of Agropolis. The EoleDrift device and the artificial vineyard EvaSprayViti was used for the demonstration (a full description of these devices could be found in deliverables A1).



Figure 13. The two sprayers used for the field demonstration: on the left the Calvet pneumatic sprayer, on the right the Lipco tunnel sprayer.

Around 80 people attended to the field demonstration (in two groups of 40 people): Figure 14 to 16.

Communication on social media was also done (Figure 17).



Figure 14. Attendance before the demonstration. $18^{\rm th}$ June 2019, Montpellier, France.



Figure 15. Demonstration in progress with the tunnel sprayer Lipco. On the right masts and wires to measure drift.



Figure 16. After the demonstration: explanations and discussion with attendance.



Figure 17. Social communication about the field demonstration on twitter.

4.2 PERFECT Life at TOPPS on farm courses

TOPPS is the acronym of Train Operator to Promote Practice and Sustainability individuated by ECPA (European Crop Protection Association) to develop a set of European projects aimed at reducing water (both surface and ground water) contamination with pesticides.

Prof. Paolo Balsari was Europe South Cluster coordinator of Life TOPPS (Train the Operators to Prevent pollution from Point Sources) project. It was a multi-stakeholder project and it was aimed at identifying Best Management Practices and disseminating them through advice, training and demonstrations at a larger coordinated scale in Europe with the intention of reducing PPP point sources contamination of water. TOPPS-on farm is currently aimed at disseminating Best Management practices directly on farm, to prevent the environment contamination with pesticides.

On March 27th, 2019 a first *TOPPS-on farm* event was organised in Nizza Monferrato (Piemonte region, Italy). The objective was to demonstrate measures to reduce water contamination by pesticides in vineyards. Special focus was posed to drift reduction measures.

Stakeholders (farmers, technicians, contractors...) met at the "Cantina Nizza" to see and discuss Best Management Practices and how these are best implemented on farms. During the day Prof. Paolo Balsari from DISAFA, Torino University, presented to the attendees the objectives and contents of the PERFECT Life project. Brochures of the project were distributed to the 60 participants (see figure 17 and 18). Measures to reduce drift were also practically demonstrated in the field during the second part of the course.



Figure 17. Presentation of the PERFECT Life project to the TOPPS on farm course in Nizza Monferrato



Figure 18. practical demonstration of anti-drift measures for PPPs application by Prof. Balsari.

On July the 4th 2019 a second TOPPS on farm course was held at the Borgoluce vine farm in Susegana (Treviso, Veneto region) in the area where the PERFECT Life field trials take place. Fifty farmers, agronomists and technicians were instructed about drift reducing measures during a 4 hours course held by Prof. Paolo Balsari in a classroom (Figure 19) and a 2 hrs field demonstration (Figure 20). Part of the course was dedicated to the presentation of the PERFECT Life project, its goals, activities and contents. Anti-drift measures were also practically demonstrated in the field to the participants. All of them were provided with the PERFECT Life brochures.



Figure 19. The TOPPS on farm course in Susegana where the PERFECT Life project was presented



Figure 20. Practical demonstration of anti-drift measures for PPPs application in Susegana

4.3 PERFECT Life at ENOVITIS IN CAMPO

ENOVITIS IN CAMPO is the only dynamic fair in Italy entirely dedicated to viticulture machineries. The event includes demonstrations that take place in the vineyard. Therefore, visitors can practically determine both the effectiveness and the actual applicability of what the exhibitors are offering. Side events offer workshops and lectures on the latest innovations in the field of vineyard management. In 2019 ENOVITIS in CAMPO took place in Montepulciano (Tuscany, Italy) from 20 to 21 June 2019 (Figure 21.). On the second day, Prof. Fabrizio Gioelli from partner DISAFA, University of Torino, gave a lecture on the main contents, objectives and first results of the PERFECT Life project. At the event about 300 PERFECT Life brochures were distributed to participants.





Figure 21. The presentation of the PERFECT Life project at ENOVITIS in CAMPO on June 21st, 2019

4.4 Networking with the project CYBELE, H2020

The Kick-off meeting of the project H2020: CYBELE took place at Barcelona, 28th, 29th and 30th January 2019. Cybele is composed by 30 partners from 19 countries. The attendees were more than 50 people.

CYBELE is a project where CACV is partner. The main objective of these project is to use the new computer technologies and IA at the service of agriculture. Several demonstrative experiments will be carried out and CACV is responsible for one of them.

During the meeting, each participant was given a short period of time to present some of the European projects in which they are participating, and which had some relation with it. In the case of CACV, the project chosen was PERFECT Life (figure 21).

Several partners showed interest for the project, especially from Greece and Austria. We will send periodically information of the project evolution for establishing a cooperation network.





Figure 21. Twit made after the project presentation during the kick-off meeting of Cybele.

4.5 Networking with the project Relive-Waste

This event took place from 6th to 8th of February 2019, as part of the second Steering Committee and transnational technical meeting of the project Re-Live Waste, Interreg Med. This meeting was organized in Valencia, Spain by La Unió de Llauradors I Ramaders del Pais Valencia. Attendants: 20 people. Technicians and projects managers of four countries: Cyprus, Italy, Bosnia-Herzegovina and Spain:

- Global Nature Foudation. Spain
- La Unió de Llauradors I Ramaders del Pais Valencia. Spain
- ALIA Agricultural transformation society. Spain
- University of Sassari. Italy
- Cyprus University of Technology
- Sarajevo Economic Regional Development Agency. Bosnia-Herzegovina
- Faculty of Agriculture and Food Sciences. Bosnia-Herzegovina
- LAORE Sardegna Regional Agency for Agriculture. Italy
- Sereco Biotest snc di Luca Poletti. Italy
- Ministry of Agriculture, Rural Development and Environment. Cyprus

The project PERFECT Life was explained presenting the objectives, main actions and foreseen results (figure 22). The partners found interesting points in common because both projects try to improve the performance of the agrarian sector. In the future we will promote exchange of experiences between both projects exploring collaborations in new projects.



Figure 22. Project Re-Live Waste. Meeting in Valencia.

4.6 EU Life Information and Networking Day

On 7th May 2019, a specific meeting of local (Valencia, Spain) project funded by the Life programme was organized in order to promote the interactions and networking of the different invited projects. During the firsts sessions of the day info related to the programme was presented. After the coffee break members of the invited projects presented a 5 minutes talk of each project. The manager of the project, Dr Héctor Calvete presented the PERFECT project, its objectives and other relevant info from the project as can be seen in figure 23.



Figure 23. Twit after the EU Life Information and Networking Day from the account of the PERFECT Life project.







LIFE17 ENV/ES/000205-PERFECT LIFE

Pe sticide Reduction using Friendly and Environmentally Controlled Technologies

JORNADA DE PRESENTACIÓN PROYECTO PERFECT LIFE

Valencia, 2<mark>9 de Octub</mark>re de 2018

Lugar: Conselleria de Agricultura, Medioambiente, Cambio Climático y Desarrollo Rural,

Calle de la Democracia 77, Sala 1 Edificio A

PROGRAMA

09.45 h	Registro
10.00h	Inauguración y bienvenida
	 Hble. Consellera Elena Cebrián Calvo/Consellera de Agricultura, Medioambiente, Cambio Climático y Desarrollo Rural
10.15 h	Presentación de la jornada
	 D. José Vicente Miró Bayarri / Subdirector General de Cambio Climático y Calidad Ambiental
	 D. Vicent Yusà Pelechà / Subdirector General de Seguridad Alimentaria y Laboratorios de Salud Pública
	 Dª. María Teresa Chàfer Nàcher / Directora General de Desarrollo Rural y Política Agraria Común
	 D. Cirilo Arnandis Núñez / Presidente de la Federación de Cooperativas Agroalimentarias de la Comunidad Valenciana
10.45 h	Presentación Proyecto LIFE17 ENV/ES/000205"PERFECTLIFE"
	 Dª. Amalia Muñoz(CEAM) Coordinación e introducción general
	 Dª. Olga Pardo(FISABIO) Biomonitorización
	 D^a. Patricia Chueca (IVIA) Herramientas y técnicas de control
	 D. Egon Cervera (CACV) Difusión en contexto agrario y ensayos
11.30 h	Networking de ProyectosLIFE y H2020
	D. Pablo López (JAP) / IRRILIFE
	D. Emilio Gil (UPC) / OPTIMA, INNOSETA
	 D^a. Susana Pedraza (Instituto de Salud CARLOS III) / HBM4EU
	D. Pepe Castro (CACV) /LowCarbonFeed
12.00 h	Clausura de la jornada

Para más información: <u>hectorcalvete@ceam.es</u>





















Programme de la journée sur la pulvérisation viticole - Montpellier - 18 juin 2019

Présentation de LABELPULVE, le nouveau dispositif de classification des pulvérisateurs selon leur performance et 1^{er} Workshop européen INNOSETA sur l'innovation en techniques et technologies de pulvérisation viticoles.

Localisation: Agropolis International - 1000, Avenue Agropolis - 34394 Montpellier

<u>Matinée</u> (09:00-12:00) Présentation officielle du LABELPULVE le nouveau dispositif de labellisation des pulvérisateurs viticoles selon leur performance

09:00 - 09:20	Introduction : Attentes de la profession et enjeux liés à l'optimisation de la pulvérisation. Les engagements de la profession pour la réduction de la dépendance aux intrants phytosanitaires - Bernard Angelras (président de l'IFV)
09:20 - 09:40	Les perspectives d'évolution des réglementations sur l'utilisation des produits phytosanitaires et incidences à prévoir sur le matériel et les pratiques (mise en place de mesures de gestion des risques en zones périurbaines, nouvel affichage de doses sur les étiquettes de produits phytos,) Jacques Grosman (MAAF/DGAL)
09:40 - 10:20	Présentation du LABELPULVE dispositif de classification des pulvérisateurs viticoles selon leur performance : Etat des lieux sur le projet et échéancier. Quelle utilisation demain par les aides aux investissements (PCAE, CEPP) ? Jean-Paul Douzals et Frédéric Lebeau (IRSTEA), Sébastien Codis (IFV)
10:20 - 10:40	Echanges avec la salle
10:40 - 11:00	Mesurer la dérive des pulvérisateurs pour une meilleure gestion des risques. Les recherches et projets en cours - EOLEDRIFT. Adrien Vergès (IFV)
11:00 - 12:15	Démonstrations sur la vigne artificielle EVASPRAYVITI et mesure de la dérive sur le mur de vent artificiel EOLEDRIFT (organisé par IFV, IRSTEA, CA34, CA30, CIVC)
12:15 - 13:15	Repas avec vins locaux et visite de stands de matériels innovants :







présentation par les constructeurs

























ANNEXE 3 List of the innovation stands







Présentation des stands présents lors du Workshop régional INNOSETA sur la pulvérisation viticole - 18 juin Montpellier

Les constructeurs vous parlent ...



Picore est un système de mesures en temps réel, embarqué sur un pulvérisateur et connecté qui permet le contrôle et le suivi en direct des paramètres de pulvérisation.

En cours de traitement, Picore permet de détecter un déséquilibre de débit, un bouchage de buse ou de pastille, de contrôler l'encrassement des filtres...

En fin de traitement sur les parcelles, Picore permet de visualiser si tous les rangs ont été traités et correctement traités. Enfin, en fin de traitement, Picore permet d'avoir un historique de données sur le serveur, de visualiser les cartes, et de remplir toute la documentation parcellaire de façon automatique...



OptiPhytO est une application pour sensibiliser les agriculteurs à la prévention des pollutions ponctuelles liées aux traitements phytos. En quelques minutes, elle permet à l'agriculteur de parcourir ses pratiques avec son conseiller afin de mettre en évidence les axes d'amélioration possibles. OptiPhytO est gratuite et disponible sur smartphone.



Le pulvérisateur ECOPROTECT de Grégoire est un appareil de traitement confiné à récupération de produit équipé de panneaux souples et légers. Son but : appliquer un maximum de matière active et limiter les dérives aériennes et sédimentaires.

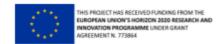


Axe Environnement propose 3 gammes : les EPI, l'aménagement de l'exploitation et les objets connectés. Nous vous présenterons la combinaison AEGIS, nouvel EPI vestimentaire dédié à la manipulation des produits phytopharmaceutiques. Le système Phytosec, nouveau système de traitement des effluents phytosanitaires et le boitier SAMSYS qui permet de suivre en temps réél le pulvérisateur au champ.



Le projet européen OPTIMA piloté par l'université d'Athènes fédère 15 partenaires de 7 pays différents et a démarré en septembre 2018. Le projet devra permettre de développer une méthode de gestion intégrée des bioagresseurs en vergers de pommiers (tavelure), sur vigne (mildiou) et sur légumes de plein champ (carotte/alternariose) en mettant en œuvre :

- · l'utilisation de bio pesticides,
- · des modèles de prédiction et de détection précoces des maladies,
- de nouvelles techniques de pulvérisation de précision qui vont être développées dans le cadre du projet.





LIFE PERFECT est un projet européen dont l'ambition est d'apporter aux agriculteurs les outils d'aide à la décision pour réduire et optimiser la quantité de produit pulvérisée. Le projet est financé par le programme LIFE, et rassemble 8 partenaires dans 3 pays différents : Espagne, France et Italie.



La circulation continue développée par Tecnoma est un dispositif qui permet de faire circuler en permanence du liquide (bouillie ou eau claire) dans le circuit hydraulique. L'ouverture et la coupure de la pulvérisation se fait via un anti-goutte pneumatique piloté par une pression d'air via un compresseur. Ce système offre plusieurs avantages : un amorçage de la rampe immédiate, une coupure nette et une sécurité opérateur accrue.,



BLISS est un pulvérisateur innovant qui confine les sprays et contribue à la réduction des pertes de produits par dérive grâce à un bouclier annulaire de lames d'air laminaire.



La Chambre d'Agriculture du Gard développe toute une gamme de produits pour accompagner et faciliter le travail des vignerons dans le gestion des intrants phytosanitaires depuis le remplissage jusqu'au phases de lavage, gestion des effluents phytosanitaires, la qualité de la préparation de la bouillie et le contrôle de la pulvérisation. Matériel à découvrir sur son site "Top Pulve"



Syngenta développe depuis plus de 15 ans, des matériels permettant une utilisation durable des solutions de protection des plantes, en matière d'environnement et de sécurité applicateur :

- Héliosec[®], pour la gestion des effluents phytosanitaires
- S-Protec[®] Plus, Mobiphyt et S-Clean[™], pour la sécurité applicateur
- Qualidrop™, Banc pulvé Dynamic , pour la qualité de la pulvérisation.



Aams-Salvarani produit une gamme complète pour mesurer, calibrer et inspecter les pulvérisateurs, ainsi que des appareils éducatifs pour montrer le fonctionnement et le nettoyage le plus efficace des pulvérisateurs. Le société s'est spécialisées ces derniers années dans la production de bancs d'essais pour les constructeurs de buses (Albuz, Hypro, Jacto). Avec ces équipements, ils peuvent contrôler la qualité des buses après la production et conduire des tests pour le développement de nouveaux modèles. Des informatiosn complémentaires sont disponibles sur le site : www.aams-salvarani. et https://www.youtube.com/results?search_query=aams+salvarani



ANNEXE 4 Program of the Information and Networking Day

