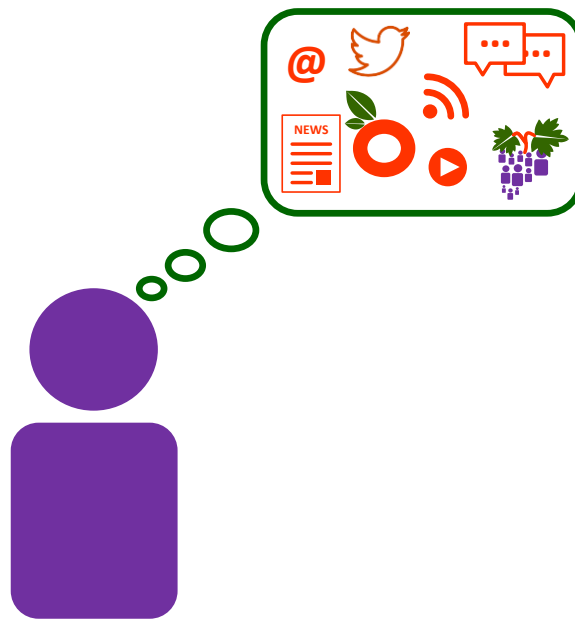




Pesticide Reduction using Friendly and Environmentally Controlled Technologies
LIFE/17/ENV/ES/000205



DELIVERABLE D1.2

Initial Dissemination Material





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1 PERFECT BROCHURE

The Perfect brochure is been translated into the 4 languages used in the implementation of the project. The brochures will be distributed during all the events (meeting, info-days, networking events, etc) the project is involved in.




PERFECT TOOLS	CONSORTIUM	
<p><i>Reduction of the spray volume, adjustment of the sprayers and use of low-drift technologies in pesticide applications is important to reduce the costs and the environmental pollution of this practice.</i></p> <p>How? Try our PERFECT tools</p> <p>DOSAVIÑA: To determine the optimal volume rate for pesticide spray application in trellis vines.</p>  <p>CITRUSVOL: To calculate the optimal volume rate for pesticide applications with airblast sprayers in adult citrus orchards.</p>  <p>gipcitricos.ivia.es/recomendacion-de-volumen</p> <p>VESPA software: VErtical SPray PAttern software enabling to predict the vertical spray profile of the air-assisted sprayers for vineyards and orchards.</p>  <p>www.laboratorio-cpt.to.it/diagramma-stomizzatori</p>	<p>Project coordinator: </p> <p>ivia Institut Valencià d'Investigacions Agràries</p> <p> IFV INSTITUT FRANCÈS DE LA VIGNE ET DU VIN</p> <p> DISAFA Consorci Agrari del Terres</p> <p> Fundación para el Fomento de la Investigación Sanitaria y Biomédica de la Comunitat Valenciana</p> <p> UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH</p> <p> cooperatives agro-alimentàries Comunitat Valenciana</p> <p> SEADM</p> <p>Follow us on:</p> <p> @perfectlifeproject</p> <p> @perfectlifeproject</p> <p> @lifepfectproject</p>	 <p>Pesticide Reduction using Friendly and Environmentally Controlled Technologies</p> 
<p>TOPPS-Prowadis drift evaluation tools: To evaluate the risk of spray drift when treating open field crops, orchards and vineyards according to climatic and operative conditions.</p>  <p>www.topps-drift.org</p>	<p>Web site: perfectlifeproject.eu</p>	 <p><i>"Reducing the use and release of pesticides into the environment through easy-to-use tools and technologies."</i></p>
<p>Low-drift nozzles: Designed to eliminate fine droplet spectrum, without sacrificing coverage and prevent contamination on non-target areas.</p> 	<p>FOR FURTHER INFORMATION: © Fundación de la Comunitat Valenciana Centro de Estudios Ambientales del Mediterráneo - CEAM Parque Tecnológico C/ Charles R. Darwin, 14 46980 - PATERNA - VALENCIA - SPAIN www.ceam.es Phone: +34 609 644 051 info@ceam.es Project Coordinator: Amalia Muñoz (amalia@ceam.es) R&I Project Manager: Héctor Calvete (hectorcalvete@ceam.es)</p>	 <p>LIFE17/ENV/ES/000205 With the contribution of LIFE financial instrument of the European Union</p>

Figure 1. PERFECT Brochure 1

ENVIRONMENTAL PROBLEM	OBJECTIVE	EXPECTED RESULTS
<p>Pesticides play an important role in agricultural production, preventing disease and infestation of crops. In Europe every year around 400.000 tonnes of pesticide active ingredients are used (Eurostat 2018). As expected, the countries with the highest quantities of pesticides sold are those with the highest agricultural production like Spain, France and Italy.</p> <p>However, farmers use to have a lack of knowledge on the correct use of pesticides, the regulation of the sprayers, and on the available strategies to reduce the environmental impact of their applications, and so those products are likely to enter the soil, atmosphere, and groundwaters via drift, leaching and run-off. This is an important risk for human health, especially for bystanders and operators, and may affect habitats and contribute to biodiversity loss, including large reductions of insect populations.</p>	<p>To demonstrate the reduction of the environmental contamination through the use of Optimal Volume Rate Adjustment tools (OVRA) and spray drift reducing tools and techniques (SDRT) due to the decrease of pesticides and their metabolites in the air.</p> <p>Besides, a new ultra-fast, sensitive and time resolved technology for pesticide analysis will be developed to assess the application of pesticides from a health standpoint, in real agricultural conditions.</p> 	<p>To promote a holistic procedure for pesticide application with low emission to the atmosphere, and reduced impact on people and the environment by using OVRA and SDR tools and techniques.</p> <p style="text-align: center;">— These will lead to —</p> <p>LESS:</p> <ul style="list-style-type: none"> - Pesticide consumption - Volume application rate - Pesticides release to the environment - Diesel consumption - Airborne and sedimenting drift - Environmental risk - Atmospheric pollution - Water footprint - Non-target crop deposition <p>& MORE:</p> <ul style="list-style-type: none"> - Saving costs and time - Knowledge - Clean working areas - Control of GHG emissions - Safeguard of bystanders and farmers - Environment protection - Clean atmosphere - Water safety - Biodiversity protection
<p>Conventional Application</p> 	<p>OVRA Tools (Optimal Volume Rate Adjustment Tools)</p> <ul style="list-style-type: none"> • Dosaviña <p>SDRT Techs and Tools (The Spray Drift Reducing Techniques and Tools)</p> <ul style="list-style-type: none"> • CitrusVol • TOPPS-PROWADIS (Drift tools evaluation) • Tools of Vertical distribution • Low-drift nozzles, deflectors... 	<p>PERFECT Application</p> 
		

Figure 2. PERFECT Brochure 2

2 PERFECT POSTER

Pesticide **R**eduction using **F**riendly and **E**nvironmentally **C**ontrolled **T**echnologies

"Reducing the use and release of pesticides into the environment through easy-to-use tools and technologies."

EXPECTED RESULTS

To promote a holistic procedure for pesticide application with low emission to the atmosphere, and reduced impact on people and the environment by using OVRA and SDR tools and techniques.

These will lead to

<p>LESS:</p> <ul style="list-style-type: none"> - Pesticide consumption - Volume application rate - Pesticides release to the environment - Diesel consumption - Airborne and sedimenting drift - Environmental risk - Atmospheric pollution - Water footprint - Non-target crop deposition 	&	<p>MORE:</p> <ul style="list-style-type: none"> - Saving costs and time - Knowledge - Clean working areas - Control of GHG emissions - Safeguard of bystanders and farmers - Environment protection - Clean atmosphere - Water safety - Biodiversity protection
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Conventional Application

OVRA Tools
(Optimal Volume Rate Adjustment Tools)

SDRT Techs and Tools
(The Spray Drift Reducing Techniques and Tools)

PERFECT Application

- Dosaviña
- CitrusVol
- TOPPS-PROWADIS (Drift tools evaluation)
- Tools of Vertical distribution
- Low-drift nozzles, deflectors...

Web site: perfectlifeproject.eu

FOR FURTHER INFORMATION: © Fundació de la Comunitat Valenciana Centre de Estudios Ambientales del Mediterráneo - OSAM Parque Tecnológico C/ Charles A. Darwin, 14 46100-PATERNÀ-VALENCIA - ESPAÑA - www.osam.es TEL: +34 909 644 001 info@osam.es
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Figure 3. PERFECT Poster

