



Deliverable 1.2: Research project results on SETA

Accelerating Innovative practices for Spraying Equipment, Training and Advising in European agriculture.



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Abstract

The final goal of task 1.2 was to gather relevant and innovative SETAs (Spraying, Equipment, Training and Advising) regarding research projects and national/international papers focusing on aspects related to PPP application.

This report illustrates the steps of the work, the screening criteria and final results obtained by the partners.

The content of this report will be used as a baseline for the implementation of the INNOSETA platform – developed in WP4 - that will be available for farmers, contractors, suppliers, technicians ad other stakeholders.

For the purpose of this deliverable, SETAs have been collected in the form of Articles (peer reviewed and technical papers) and Projects. For papers, records were retrieved from the main available databases (e.g. Scopus, WOS etc.), whereas for projects national and international databases (e.g. EIP-Agri, Cordis..) were utilized. Collected records (251 articles and 135 projects) were screened by the WP leader (UNITO) and the partners to identify relevant articles and research products.

The final assessment led to the gathering of 109 Articles (comprehensive of peer reviewed and technical papers) and 55 Projects. Their classification and further details are available in Chapter 3 of this deliverable.



Table of Contents

Intro	duction	1
1 PI	hase 1: Initial identification	2
	Definition of SETA and set of search limits	
2 PI	hase 2: Survey	2
2.1		
2.2	Screening	6
А	cceptance criteria:	6
E	xclusion criteria:	6
2.3	Screening results	7
Α	rticles	7
Р	rojects	7
3 PI	hase 3: Data aggregation	9
3.1	Methods	
3.2	Final results	12
Α	rticles	12
Р	rojects	12
4 Co	onclusions	14



Introduction

The main goal of WP1 is gathering and selecting the latest innovations in terms of technology advancements in spraying and application techniques of PPPs in four cropping systems: open field, greenhouse, orchards and vineyards. Said innovations are defined as Innovative SETA (**Spraying, Equipment, Training and Advising**) and are gathered in the form of:

- peer reviewed and technical papers
- national and international projects
- industry Products
- training and advising material

The final data, approved by all partners, will be used in WP4 as inputs for the INNOSETA platform.

The present deliverable describes the methodology used to collect and to screen data as well as the final achieved results about papers and projects related to innovative SETAs.

As reported in Deliverable 1.1. the methodology for identification and gathering of SETAs was organized in three phases and three sub-phases as displayed in Figure 1.

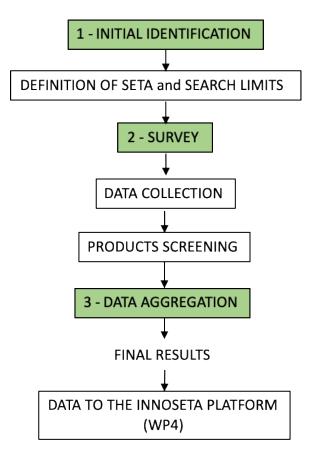


Figure 1: phases (green boxes) and sub-phases (white boxes) of SETAs collection and data processing



After having defined what to consider as an innovative SETA and having set the limits of the search for data on the available sources, the inventory was started. Collected entries were afterwards screened by UNITO to delete double or not-pertinent records. The very last phase was dedicated to group results into homogeneous categories.

In the following chapters detailed information about steps taken to complete the indicated phases and relative results are presented.

1 Phase 1: Initial identification

1.1 Definition of SETA and set of search limits

Following instructions provided by the Deliverable 1.1, in Phase 1 partners involved in WP1 were asked by the WP leader UNITO to look for and to collect data about: 1) international peer reviewed and national technical papers and 2) international and national research projects.

The basic criteria for data gathering were finding *papers* and *projects* dealing with **innovative** technologies for PPP spraying, allowing farmers to optimize pesticides application, to avoid environmental pollution and to minimize PPP residues on products.

To better specify what to consider as a SETA and to set the search limits, a discussion between partners was promoted. As a common decision, a SETA is:

- i) whatsoever component, device, tool etc. that can be fitted to spraying machineries,
- ii) a whole sprayer that presents innovative components/accessories,
- iii) devices/tools enhancing the environmental sustainability of spraying operation (e.g. closed transfer systems)
- iv) training and advising material referred to sprayers and spraying operations.

This decision led to exclude from the search: technical solutions not directly connected to the sprayers or to the setting and control of the sprayers.

2 Phase 2: Survey

2.1 Data collection: roles of partners, data sources and search parameters

All partners involved in this task (UNITO, ILVO, UPC, IFV, VISAVI, AUA-CERTH, ZLTO, ZODR) were instructed to look for products using - as a first guideline for the search - a series of keywords, summarized in Figure 2 (see also D1.1 and D1.3). Those keywords were used as guidelines only and were non- restrictive, meaning any relative keyword suitable for the objective could be used by partners.



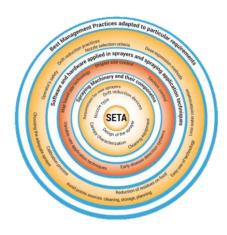


Figure 2. Keywords used to carry out the investigation about SETA – related papers and projects

To organize a uniform data gathering and avoid (as much as possible) duplicate entries between partners, an agreement on the procedures to follow and to track progresses was achieved after three Skype meetings that were held on January 24th, February 8th and 22nd 2019.

In detail, it was agreed that:

- 1. UNITO as task 1.2 leader was in charge of looking for international and Italian projects as well as for international and Italian papers;
- 2. other partners were in charge of collecting regional (national) products available in national databases.

The latter point ensures an overall representation of all partners' countries which is important from the end user point of view: the aim of the project is indeed to make the repository as user-friendly as possible and the availability of material in each partners' country mother language is relevant to the end goals of the INNOSETA project.

The investigation was performed by looking for EU funded project (in frameworks such as FP7, LIFE, INTERREG, ERA-NET, H2020 etc.) and national projects self or co-funded or totally funded by public and private Institutions in the reference period 2010-2018.

A list of possible and suitable data sources was indicated in D1.1 (*Table 2*). Nevertheless, as for keywords, this indication to partners was non-restrictive and any source considered as suitable could be used.

For projects dealing with innovation in the spraying technology sector, data were retrieved from the available EU databases (e.g.: *Cordis, EIP-Agri, etc.*) or from national (non-EU) databases. For papers, databases containing scientific peer reviewed international papers (*Scopus, WoS*) as well as national databases were screened by the consortium to look for research results related to Innovative SETAs in the reference period 2010-2018.

To have a comprehensive and efficient collection of SETAs, G-forms produced by partner AGENSO at task 1.1 were used. More detailed information about the G-form structure are available in deliverable 1.1.

To ensure a proper use of G-forms and a reliable data collection, a document - prepared by UNITO - and containing detailed instructions on how to fill up G-forms was circulated between partners (see Annex 1) at the beginning of the survey.



The instruction document is also available on the INNOSETA Wiki at the following url: https://innoseta.upc.edu/wiki/index.php?title=File:WP1 How to fill up Gforms.pdf

All partners logged in with the same google account so that all entries ended up in the same final file under the form of an Excel sheet. A screenshot of the resulting file is shown in Figure 3.

1 Your	rname	Organisation	Email	What is your SETA?	Title of the Article (English)	Native Language (if exists)	Title of the Article (native lar	Author(s) (English)	Journal Name (if exists)
176 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Improvements in pesticide drift reduction technology (DRT) call for improving liabili	ty provisions to offer incentive	es for adoption	Palardy, N.; Centner, T. J.	Land Use Policy
177 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Spray drift reduction techniques for vineyards in fragmented landscapes			Otto, S.; Loddo, D.; Baldoin,	Journal of Environmental M
178 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Drift reduction of low drift nozzles in spraying citrus orchards.			Planas, S.; Torrent, X.; Chue	SuproFruit 2015 – 13th Wor
179 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Emission reduction in orchards by improved spray deposition and increased spray	drift reduction of multiple row	sprayers.	Wenneker, M.; Zande, J. C.	Aspects of Applied Biology
180 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Technical solutions to reduce drift of pesticides in apple orchards of Trentino			Bondesan, D.; Rizzi, C.; Giul	Fourth European Workshop
181 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Drift from fruit sprayers — why not prevent it at source?			ANDREW LANDERS	aspects of applied biology
182 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Assessment of Agricultural Best Management Practices Using Models: Current Issue	ies and Future Perspectives			Water
183 Floris	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	A mixed discrete-continuous variable multiobjective geneticalgorithm for targeted in	mplementation of nonpoint so	ourcepollution control practic	Ahmadi, M.; Arabi, M.; Hos	WATER RESOURCES RES
184 Floris	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Integrated watershed- and farm-scale modeling framework for targeting critical sou	rce areas while maintaining t	arm economic viability	Ghebremichael, L. T.; Veith	Journal of Environmental M
185 Floris	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Agricultural non-point source pollution in China: causes and mitigation measures			Sun B, Zhang L, Yang L, Zha	AMBIO
186 Floris	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	UPDATE TO THE USDA-ARS FIXED-WING SPRAY NOZZLE MODEL			B. K. Fritz, W. C. Hoffmann	American Society of Agricu
187 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Characteristics and classification of Japanese nozzles based on relative spray drift	potential		Bai, G.; Nakano, K.; Mizuk	Crop Protection
188 Floris	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Investigation on optimal spray properties for ground based agricultural applications	s using deposition and retent	on models.	Cock, N. de; Massinon, M.; S	Biosystems Engineering
189 Floris	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Spray coverage and drift in vineyard applications in Australia.			Hewitt, A.; O'Donnell, C.; Fer	International advances in p
190 Floris	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	GONDOR® - adjuvant for drift reduction and STICMAN® - an unique sticker and su	per-wetter adjuvant.	GONDOR® - močilo za zma	Štepic, P.; Kos, A.; Majcen,	Zbornik predavanj in refera
191 Floris	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Towards integration of inspection procedures, calibration and drift reducing device	s for an efficient use of pestic	ides and reduction of applica	Bondesan, D.; Rizzi, C.; lan	Fourth European Workshop
192 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Variable air assistance system for orchard sprayers; concept, design and prelimina	ry testing		Ryszard Hołownicki, Grzego	Biosystems Engineering
193 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Pesticide application-measures for mitigation of spray drift	German	Pflanzenschutzmitteleinsat	Schweizer, S.Email Author,	Agroscope Schweiz
194 Floris	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Low-loss spraying			Knoll, M.; Lind, K.; Triloff, F	Fourth European Workshop
195 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Nozzle classification for drift reduction in orchard spraying.			Zande, J. C. van de; Wennel	Aspects of Applied Biology
196 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Spray drift for different types of nozzles and spraying techniques used for herbicide	s application in orchards.		Godyn, A.; Doruchowski, G.	Swiechowski, W.; Holownic
197 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Optimization of agricultural sprays with an organo-modified trisiloxane tank mix ad	juvant.		Sieverding, E.; Giessler-Blan	21ème Conférence du COL
198 Floria	iana Nuzzo	UNITO	floriana.nuzzo@unito.it	Article	Development of two portable patternators to improve drift control and operator train	ing in the operation of vineya	ird sprayers	Gil, E.; Landers, A.; Gallar	Spanish Journal of Agricult

Figure 3. Partial screenshot of the Excel file that gather all G-form entries from partners.

In these forms every partner was able to fill-in fundamental information about the specific SETA. Nevertheless, as the goal of the survey was not to duplicate information already existing on EU databases, in the case of EU projects, relevant information only were collected: title & acronym, abstract, funding source, keywords, specifications about the type of technology examined, the TRL (Technology Readiness Level) of the product described in the project and a link to the online database from which information were collected.

For projects retrieved from non-EU databases a more comprehensive set of information were collected to have a more complete overview of the project.

The first phase led to the collection of 386 records: **251 articles** (173 from EU Countries and 78 from extra EU) and **135 projects**.

An overview of the number of collected articles and projects sorted per Country of origin of the main Author or of the project Coordinator is reported in Table 1 and Table 2 respectively.



Extra EU Countries	n. of articles	EU Countries	n. of articles
United States	34	Belgium	2
Argentina	1	Denmark	11
Brazil	7	France	18
Canada	2	Germany	14
China	14	Greece	2
India	6	Italy	31
Israel	2	Netherlands	8
New Zealand	2	Poland	38
Nigeria	1	Romania	2
Turkey	3	Hungary	1
Japan	1	Slovenia	4
Malaysia	1	Spain	31
Australia	2	UK	6
Iran	2	Portugal	3
		Serbia	1
		Sweden	1
Total	78	Total	173

Table 1: number of collected SETA-related articles. Country is referred to main Author location.

Country	EU databases n. of projects per coordinating Country	Country	non-EU databases n. of projects per coordinating Country
Belgium	1	Belgium	8
Cyprus	1	Denmark	1
Denmark	6	France	17
Finland	1	Germany	4
France	6	Italy	3
Germany	14	Switzerland	1
Greece	2	Spain	11
Israel	1	UK	1
Italy	13		
Norway	1		
Portugal	3		
Spain	21		
Switzerland	4		
The Netherlands	5		
UK	10		
Total	89	Total	46

Table 2. number of collected SETA-related projects. Country is referred to project coordinator location.



All collected records (see Annex 2) were afterwards screened - initially by UNITO and in a second phase by all partners - to get a final list of SETAs for the INNOSETA platform.

The screening process is described at the following paragraph.

2.2 Screening

At a first step, all records were screened to delete duplicates and incomplete entries: "incomplete entries" were considered those lacking in an exhaustive description and information, thus making their evaluation impossible. For these records an integration of data was asked to partners. When additional data were not available, products were deleted from the database.

At a second step, remaining projects and papers were thoroughly examined to identify the research results already put or near to be put into practice, including market-ready SETA solutions.

The screening process implied to set acceptance and exclusion criteria. To do that Skype meetings were arranged to discuss this matter between partners and to agree on the screening procedure.

Acceptance criteria:

In general, environmental sustainability-oriented technologies were considered more relevant, except operative ones (e.g. machine movement facilitation, headland maneuvers..). SETAs were approved if they were pertinent to a new technology or new technique of application of PPPs. Solutions concerning prototypes or new technology ideas were kept regardless the innovation was quite recent or not. Also, technologies that were not particularly innovative, but of which the diffusion amongst farmers was deemed necessary, were considered as SETAs and kept in the database.

Exclusion criteria:

In detail, as not pertinent records were considered:

- entries outside the search limits set at paragraph 1.1;
- too general records, e.g. articles or projects dealing with Integrated Pest Management (IPM) or with precision agriculture in general terms (e.g. when spraying techniques were not the core part of the project or of the paper);
- papers and projects dealing with guidance systems and mapping systems that can be applied to a wide variety of field operations and are not exclusive for PPP application;
- records dealing with drones for application of PPP in compliance with the ban implemented in article 9 of Directive 2009/128/EC of the European Parliament.

With respect to prototypes described in articles or implemented within projects, those with commercial potential that were developed 5 or more years before the survey, but still not actualized in a form of commercial products, were excluded from the dataset.

The same acceptance/exclusion criteria were applied for industry solutions as described in D1.3.



2.3 Screening results

Articles

At the end of the screening process **109 articles** (34 with main author from extra-EU Countries and 75 with main author from EU Countries) were selected for the INNOSETA platform (Table 3).

Extra EU Countries	n. of articles	EU countries	n. of articles
United States	14	Belgium	1
Brazil	1	Denmark	3
Canada	2	France	10
China	9	Germany	5
India	2	Italy	13
Israel	3	Netherlands	7
Turkey	1	Poland	10
Australia	1	Romania	1
Iran	1	Slovenia	1
		Spain	23
		Portugal	1
Total	34	Total	75

Table 3. Number of selected SETA-related articles after the screening process per main Author Country of origin.

As shown in Figure 4 - as expected - articles' predominant language is English, being English the official language for international literature. Nevertheless, about 50 articles in other languages (namely Spanish, French, Dutch, Italian, Portuguese, Polish and Chinese) are now available for the INNOSETA platform.

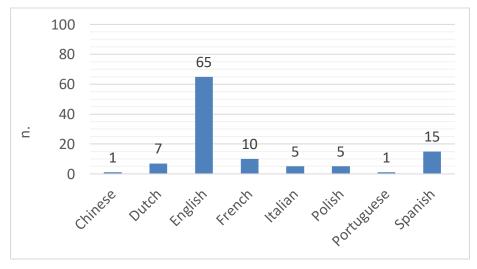


Figure 4. number of articles retrieved after the screening process sorted per language.

Projects

The screening process led to the exclusion of 81 records out of 135 initial entries. Therefore, after the projects' selection, 55 records are now available for the INNOSETA interactive platform. In detail,



27 approved projects were retrieved from EU online databases (Figure 5) and 28 from non-EU databases (Figure 6). The latter figure (non-EU databases projects) includes, e.g.: national, regional, industry-funded, self-funded projects, etc.

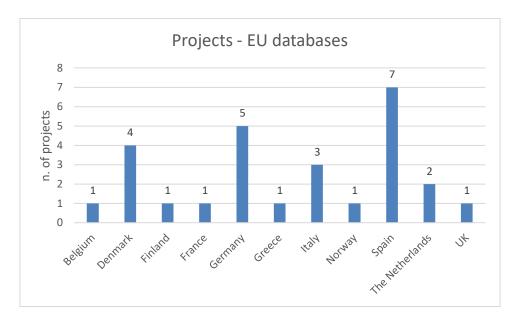


Figure 5. Number of approved projects retrieved from EU-databases after the screening process. Data are sorted by Country of the project coordinator.

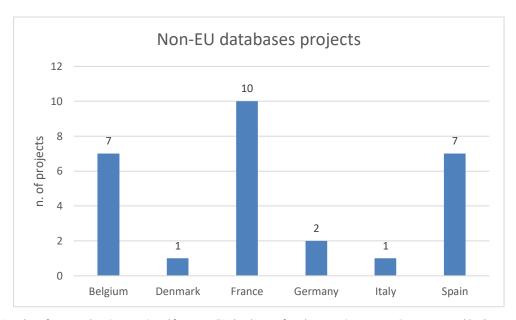


Figure 6. Number of approved projects retrieved from non-EU databases after the screening process. Data are sorted by Country of the project coordinator.



3 Phase 3: Data aggregation

3.1 Methods

As illustrated in the flowchart in Figure 1, the last step of SETAs selection is data aggregation, which aim is to provide the final data for the launch of the INNOSETA interactive platform.

In general, the effort was to categorize SETAs in a harmonized category, group and subgroup system, which emerged from the screening itself. This was carried out so that the INNOSETA platform can be effectively used by the end users (farmers, contractors, advisors, suppliers) for finding out information about projects and papers dealing with the latest innovations in the PPP application sector.

Such categories, and sub categories and description are summarized in

Other SETAs						
	In this macro-group were included projects dealing with innovations of the INNOSETA project, but of the previous category.	useful to reach the t belonging to any				

Table 4 (see also D1.3, table 5).

CATEGORY	GROUP	SUBGROUP	DESCRIPTION
Components			Generally any mechanical/electronic component of the spraying machine.
	Nozzles		Anti-drift nozzles, caps and accessories that
	Nozzles Accessories		facilitate and /or optimize the PPP application
	Valves		With sensor guided or automatic shut-off
	Fans		New types of distribution fans
	Sprayer Booms		Booms with innovative design
	Cleaning Systems		Cleaning nozzles and innovative systems to clean the tank or the exterior of the sprayer
	Filling Systems:		
		Closed transfer systems	Components that allow to pour the PPP in the mixing tank without dispersing the product, protecting the operator and the environment from contamination
		Direct Injection	Direct injection of PPP in the mixing tank
		Filling level monitoring	Allows to easily check the filling level of the tank and avoid spillage/overfilling



		Pre-mixers	Mixer tanks directly applicable to sprayers that allow to prepare the mix directly onto the machine, without transporting it from a prep bench. This reduces the risk of spillage and exposure of operators and contamination of the environment.
Sensors			
	Canopy Sensing		Sensors that are capable to scan and perceive the dimension of the canopy and its density. This is essential for the dose/volume expression of PPPs and avoid over/under treatment.
	Target detection:		
		Weed detection	Ultrasound or LIDAR imaging systems that
		Disease detection	accurately detect weeds and or signs and symptoms of diseases in order to determine a precise target to be treated
Integrated Systems			Articles/projects dealing with systems that integrate a sensor component that guides a mechanical actuator.
	Boom height control		Adjusts the position of the boom following the characteristics of the ground detected by a sensor. This allows a more uniform application.
	Control Units		These include automation devices for automated spraying, computers that allow adjustments of the machine
	Nozzle Control:		
		Variable rate/PWM	Recent technology (2016) that employs the duty cycle of a pulsing solenoid instead of spray pressure to control nozzle output. It ensures constant droplet size, ability to change pressure with instant response and doesn't drip.
		On/Off section or single nozzle	Control of single nozzles allows to more precisely apply PPPs where needed. For example, this technology can be combined with Weed detection systems to treat only unwanted weeds.
		GPS based nozzle control	A GPS system detects where the PPP has to be applied, following prescription maps or operation data to avoid overlaps with already treated areas. It controls the nozzle activity
Support systems			Articles/projects dealing with systems that support the farmer in the application process, to reduce stress of decision making and operations.
	Guidance:		



		A	Cuidana af machinam autamatad fallauina
		Automated guidance	Guidance of machinery automated following prescription map / pre-determined path
		Assisted Steering	Steering is made easier thanks to an automated system which reduces the stress for the operator
	DSS		Decision support System, might be a online page, software or an app for smartphones and/or tablets which help the farmer decide when/how much PPP to apply.
	Monitoring		Monitoring operations is important to avoid overlapping of treatments
		Single/Multiple operation monitoring	One or more operations are monitored and registered.
		Sprayer position via GPS	GPS system that allows to know where the machinery is located / has applied PPP
		Nozzle activity monitoring	Sensors that detect the activity and adjustment of the sprayer and its parts (e.g. nozzle pressure, eventual clogging, speed)
	Mapping/recording		
		Field operations (automated data collection)	Software and apps for smartphones and/or tablets that keep track of treatments (area, date and time, product used), products in stock.
		Field mapping (Drones/Satellite)	Prescription maps obtained by Satellite or Drone imaging systems
Innovative sprayers			
	Sprayers for field crops		In these subgroups were included articles/projects dealing with sprayers that carry an innovative
	Sprayers for arboreal crops		element (component or sensor) but were presented as a whole new innovative machine by the manufacturer. They were divided by crop type of
	Sprayers for greenhouses		use.
Best Management Practices			
			In this macro-group were included articles and projects dealing with Best Management Practices
Other SETAs			In this macro-group were included articles and projects dealing with innovations useful to reach the



goal of the INNOSETA project, but belonging to an
of the previous categories

Table 4. Categories, groups and subgroups of SETAS identified to classify the records into homogeneous sets of data.

3.2 Final results

Articles

A total of 109 records concerning articles were categorized (Figure 7): 69 scientific articles and 40 technical papers. Within the *innovative sprayers'* category (53 papers in total) most of the retrieved records (n=32) deal with sprayers for arboreal crops. The remaining records concern field crop sprayers (n=9), greenhouse sprayers (n=4) and generic sprayers (n=8). The second bigger category is represented by "sensors", including 15 records: weed detection systems (n=2), disease detection systems (n=4) and canopy sensing systems (n=9).

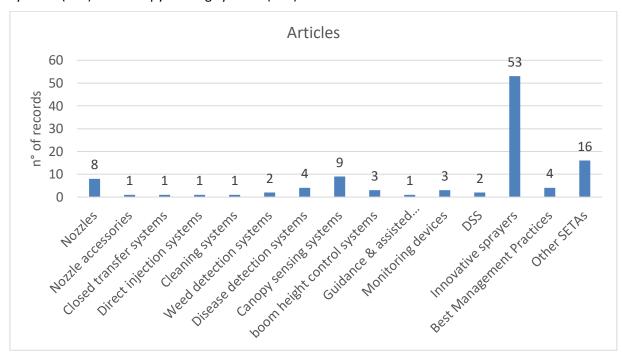


Figure 7. Number of records according to the type of SETA described in the articles.

Projects

Regardless to the data source (EU or non-EU databases), according to the survey results most of the screened projects (50%) deal with innovative sprayers, whereas 20% of the projects are focused on the development of sensors for weed or diseases automatic detection (Figure 8 and Figure 9). Mapping systems are the third most represented group of SETAs (15% of the selected records). Concerning the funding source, the 65% of the projects are national, private, self or co-funded (e.g. ICT-Agri) whereas FP7 and H2020 represent the 20% and 13% of the total. Only one of the approved projects is funded under the EU-LIFE programme.



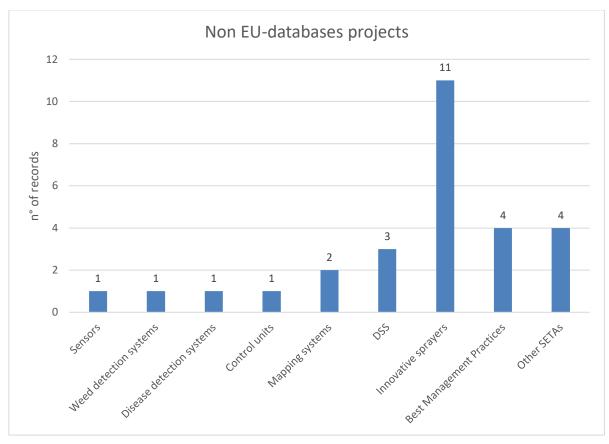


Figure 8. number of records according to the type of SETA developed in non-EU projects

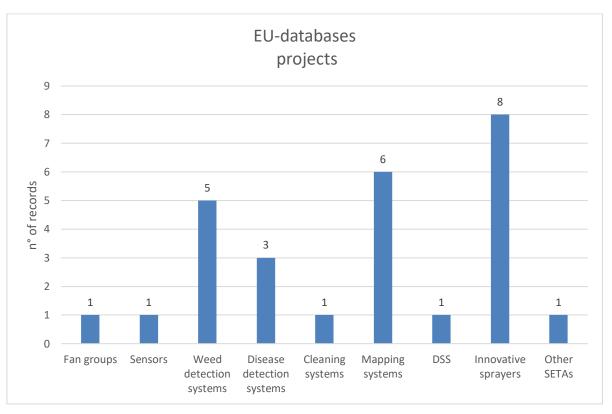


Figure 9. number of records according to the type of SETA developed in EU projects



4 Conclusions

In this first phase of the project we set the baseline for the launch of the INNOSETA interactive online platform.

55 projects and 109 articles (both scientific and technical) were selected to serve as first inputs for the platform. The records cover a wide range of technical solutions (from sprayers' components to whole machineries, from DSS to mapping systems). Records come from 23 countries (including extra EU) and represent 8 different languages. Figure 10 and Figure 11 show how the records will look like once on the INNOSETA platform. Nevertheless, please note that this is a first draft only and that some implementations have still to be done to the records layout.

Partners will keep on collecting SETAs in the coming years in order to implement and to keep up to date the INNOSETA platform.

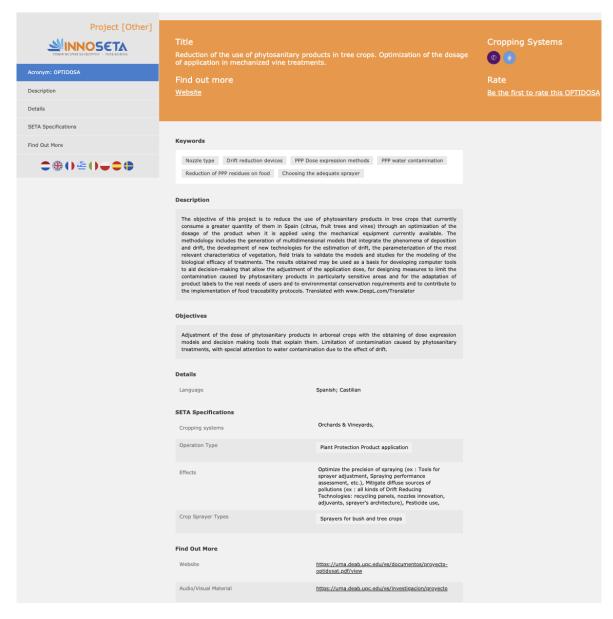


Figure 10. Draft of record's layout for projects that will be available on the INNOSETA platform.



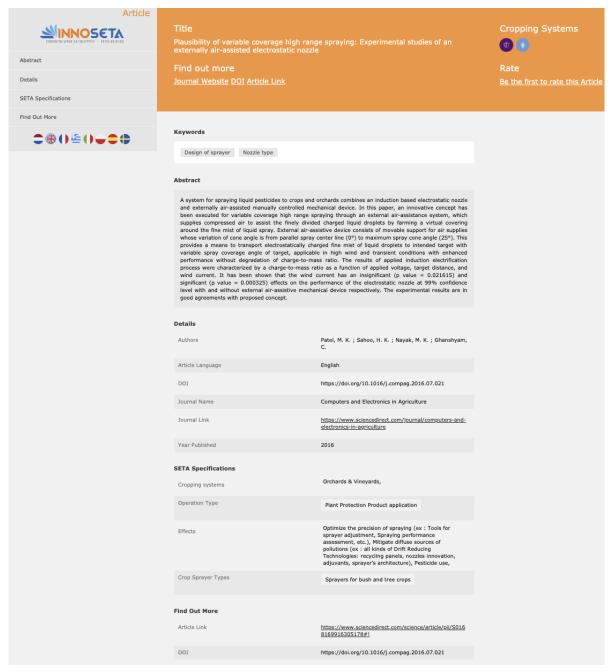


Figure 11. Draft of record's layout for articles that will be available on the INNOSETA platform.



Annex 1 – Document containing instructions to fill up G-forms WP 1

ACTIVITIES TO CARRY OUT FOR D1.2, D1.3, D1.4

As mentioned in Athens, we're now entering the very last phase of SETAs collection. To do so, we have to harmonize the activity of all of us to avoid extra work, to save time and to be as efficient as possible.

What we're expected to do is collect data belonging to four SETAs categories: national and international projects, articles (scientific and technical papers), industry products, training and advising materials.

The informatic tools we have to use to collect SETAs are the G-forms produced by AGENSO.

G-forms are available at the following Link:

https://docs.google.com/forms/d/157tvZ2-37ZnOjQZdUKPRP1z4t4fKO21jaKtMlkiFFcM/viewform?edit requested=true

To LOG IN

use credentials provided by Agenso:

User: innoseta.proj@gmail.com

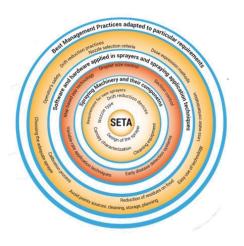
Password: G159!bk45lux@

Once you will be logged in, you'll find a screenshot that will enable you to select the SETA product you want to enter into the database (projects, articles, industry products, training/advising material).

How to look for SETAs

To search SETAs within a database (regardless to the type of SETA: article, projects etc.) you can use the keywords displayed in the following figure. Nevertheless, feel free to use other ones that you consider to be suitable for the specific purpose.





How to fill up G-forms

G-forms are now "open": no mandatory fields are present. This meaning that, in case some information is missing, you can skip it and move forward to the following field. Some fields have guided answers (multiple answers are sometimes accepted), some others have open answers.

G-forms for PROJECTS

With respect to the situation before Athens' meeting, you will notice that two options for projects data collection will be displayed:

- EU projects
- Other projects

As requested by the EU, we don't have to duplicate information already existing in EU databases. Thus, we've asked Agenso to produce a "simplified" G-Form for Cordis/EIP-Agri/other EU databases projects.

The simplified form contains a limited number of fields where the essential information we want to include in the INNOSETA database can be entered (e.g. project title, acronym etc). A specific field for a link to the project on Cordis/EIP-Agri/other Eu databases was also created.

The second G-Form for projects is more detailed and it shall be used for national projects only.



Who's in charge of what:

UNITO: international projects (search will be limited to EU only) and Italian projects

Other partners: national projects (please check national databases)

DEADLINE FOR PROJECTS COLLECTION: February 22nd

G-forms for ARTICLES

A single G-form for national and international articles is available.

Who's in charge of what:

UNITO: international articles (including extra EU articles), Italian papers

Other partners: national papers only

When looking for national articles, <u>try to focus especially on technical and applicative ones</u> that are likely more interesting for the INNOSETA platform end-users.

DEADLINE FOR ARTICLES COLLECTION: February 22nd

G-forms for INDUSTRY PRODUCTS

A single G-form for national and international industry product is available.

Who's in charge of what:

UNITO: Italian companies/international companies

All partners: National Companies (please try to collect at least 10-15 industry solution per partner)

UNITO have asked CEMA for a list of relevant **extra-EU international companies** and for the location of their EU headquarters.

We kindly ask all of you to provide us with a list of Companies you know in your Countries (please do that by Monday January the 14th). We'll merge all the lists and forward them to CEMA. They will use the final list as a baseline to fill the gaps of possible Companies to get in touch with.



Once CEMA list will be ready, UNITO will check in what Country the headquarters are based and will ask national partners to get in touch with that specific regional headquarter. E.g. if a U.S. Company has the main EU headquarter in Belgium, we will ask ILVO to get in touch with it.

For **EU** international companies, the same principle applies: e.g. in case the headquarter is based in Spain, then UPC will be in charge of getting in touch with it, if the headquarter is in Italy, UNITO will be in charge, etc.

In case a headquarter is based in a Country not represented by an INNOSETA partner, UNITO will be in charge of contacting the company.

DEADLINE FOR INDUSTRY SOLUTIONS COLLECTION: February the 1st

HOW TO CHECK THE EXISTING RECORDS IN THE DATABASE (ARTICLES, PROJECTS, INDUSTRY PRODUCTS, TRAINING MATERIALS)

In case you want to doublecheck whether a product you have found is already existing in the database, this is feasible through the following link: https://docs.google.com/forms/d/157tvZ2-37ZnOjQZdUKPRP1z4t4fKO21jaKtMlkiFFcM/edit#response=ACYDBNjmHQw4lAUSdOiCqo2wvWUoCxM4tV2ByKx-7sL-4-nmGJJ7w4qSblMzx1Y

To log in, use the same credentials as for the G-forms, then:

- 1) Click on the "responses" button (on the right top corner of the form), a new screenshot will appear with a green icon on the right (similar to an Excel icon).
- 2) Click the green icon
- 3) An Excel file will show up containing all already entered records. From this point on, you can use the spreadsheet as an Excel file. Data can be filtered, cancelled, modified etc.

Just be careful: in case you delete a record, that record will be lost!



Annex 2 – Records retrieved for articles and projects at the end of Phase 2 Articles:

				ı		
Organisation	₩	Email	What is your SETA?		Author(s) (English)	Journal Name (if exists
IFV		adrien.lienard@vignevin.co	Article	How to optimise the use of shielded sprayers?	X. Delpuech, S. Codis, A. V	
IFV		adrien.lienard@vignevin.co	Article	HOW TUNNEL SPRAYERS COULD REDUCE PESTICIDES USE IN VINEYARDS	X. DELPUECH, A. LIENARI	COLLOQUE SUR LES TECH
IFV		adrien.lienard@vignevin.co	Article	AGRO-ENVIRONMENTAL OPTIMIZATION OF SPRAYING IN VITICULTURE: STATE OF	AF O. HEBRARD, J-P. DOUZA	Matévi
IFV		adrien.lienard@vignevin.co	Article	Adapt the sprayer fleet to spray more precisely	S. CODIS, A. VERGES, B.	Phytoma
IFV		adrien.lienard@vignevin.co	Article	Downy mildew and powdery mildew control: adapt the doses of active ingredient to the	ve M. CLAVERIE, S. DEVEZE	Rhône en V.O.
IFV		adrien.lienard@vignevin.co	Article	AIR INJECTION NOZZLES: LESS DRIFT DUE TO LARGER DROPLETS	B. PERRIOT	Arvalis infos
IFV		adrien.lienard@vignevin.co	Article	COB PROTECTION: APPLICATION RATE, A MORE IMPORTANT PARAMETER THAN N	IOZ B. Perriot	Arvalis info
IFV		adrien.lienard@vignevin.co	Article	POTATO BLIGHT: THE TYPE OF NOZZLES, MORE DECISIVE THAN THE APPLICATION	N F B. Perriot	Arvalis infos
IFV		adrien.lienard@vignevin.co	Article	DEFANING: COMBINING GRINDING AND CHEMICAL TREATMENT	C. Vacher, M. Martin	Arvalis info
IFV		adrien.lienard@vignevin.co	Article	NOZZLE HOLDERS THAT CHANGE THE DEAL	B. Perriot, C. Desbourdes	Arvalis infos
IFV		adrien.lienard@vignevin.co	Article	INTRA-PARCEL MODULATION WITH DIRECT INJECTION	C. Desbourdes	Arvalis Infos
IFV		adrien.lienard@vignevin.co	Article	Personal protection: getting out of the "all or nothing" situation	M. Decoin	Phytoma
IFV		adrien.lienard@vignevin.co	Article	Dérive, volumes et doses, peut-on réduire les trois ?	M. Decoin	Phytoma
UNITO		fabrizio.gioelli@unito.it	Article	SPRAY DEPOSITION INSIDE TREE CANOPIES FROM A NEWLY DEVELOPED VARIA	BLE Y. Chen, H. E. Ozkan, H. 2	Transactions of the ASABE
UNITO		floriana.nuzzo@unito.it	Article	An RFID-based solution for monitoring sprayer movement in an orchard/vineyard	C Zhai, A Landers, B Zhang	Precision Agriculture
UNITO		floriana.nuzzo@unito.it	Article	Comparison of a new air-assisted sprayer and two conventional sprayers in terms of d	epo Yanjie Li, Yifan Li, Xiang P	Pest Management Science
UNITO		floriana.nuzzo@unito.it	Article	Machine vision smart sprayer for spot-application of agrochemical in wild blueberry fiel	ds Travis Esau, Qamar Zaman,	Precision Agriculture
UNITO		floriana.nuzzo@unito.it	Article	Laboratory test of the new spray dose adjustment system for field sprayers	Garbiak, K. Jurga, J. Tom	Journal of Research and A
UNITO		floriana.nuzzo@unito.it	Article	Design of VAV system of air assisted sprayer in orchard and experimental study.		Aspects of applied biology
UNITO		floriana.nuzzo@unito.it	Article	Design optimization of boom sprayer by CFD analysis.	Shinde, G. U.; Thakre, S.	Sixth International Scientific
UNITO		floriana.nuzzo@unito.it	Article	Development of a self propelled air assisted sprayer for transplants on raised-tables i	n n Gamliel, A.; Riven, Y.;	Aspects of Applied Biology
UNITO		floriana.nuzzo@unito.it	Article	Field Evaluation of Air Assisted Sleeve Boom Sprayer.	Thakare, S. K.; Saraf, V. V	Madras Agricultural Journa
UNITO		floriana.nuzzo@unito.it	Article	A new pest management research facility: Scion's large-scale precision track sprayer	S.F. Gous1, T.M. Withers1	Agrichemicals
UNITO		floriana.nuzzo@unito.it	Article	Highly efficient airblast sprayer design within the project: Healthy crop, Healthy enviro		-
UNITO		floriana.nuzzo@unito.it	Article	RHEA PROJECT ACHIEVEMENT: AN INNOVATIVE SPRAY CONCEPT FOR PESTICIDE		
UNITO		floriana.nuzzo@unito.it	Article	The development of an automatic precision canopy sprayer for fruit crops.	Landers, A. : Muise, B.	Aspects of applied biology
UNITO		floriana.nuzzo@unito.it	Article	The Intelligent Sprayer Boom - a new generation of sprayers.		Aspects of applied biology
UNITO		floriana.nuzzo@unito.it	Article	Development of a variable-rate sprayer for nursery liner applications.	H. Y. Jeon, H. Zhu	Transactions of the ASABE
UNITO		floriana.nuzzo@unito.it	Article	Development of a Low-Volume Sprayer for an Unmanned Helicopter	Huang, Y. B.: Hoffman, V	Journal of Agricultural Scien
UNITO		floriana.nuzzo@unito.it	Article	Design of a remotely operable sprayer for precision farming application		"Safety Health and Welfare
UNITO		floriana.nuzzo@unito.it	Article	A new hollow cone nozzle featured by a limited spray angle: possible application.		Aspects of applied biology
UNITO		floriana.nuzzo@unito.it	Article	Reduction of deoxynivalenol (DON) contamination by improved fungicide use in wheat.		
UNITO		floriana.nuzzo@unito.it	Article	Improving plant protection product applications in traditional and intensive office orchar		
UNITO		floriana.nuzzo@unito.it	Article	An advance air-induced air-assisted electrostatic nozzle with enhanced performance		Computers and Electronics
UNITO		floriana.nuzzo@unito.it	Article	The development and evaluation of nozzle systems for use in targeted spot spraying a		
UNITO		floriana.nuzzo@unito.it	Article	Effect of spray drift reduction techniques on pests and predatory mites in orchards an		
UNITO		floriana.nuzzo@unito.it	Article	Novel spray adjuvants to decrease spray drift.		Aspects of applied biology
UNITO		floriana.nuzzo@unito.it	Article	Automatically controlled sprayer to implement spray drift reducing application strategie		
UNITO		floriana.nuzzo@unito.it	Article	Drift Risk Diagnosis (DRD) – a decision support tool to help diagnose and mitigate spra		
UNITO		floriana.nuzzo@unito.it	Article	Continuous cleaning - time efficient sprayer cleaning with minimum water usage.	•	Aspects of applied biology
UNITO		floriana.nuzzo@unito.it	Article	The challenge of cleaning direct-injection systems for pesticide application		Transactions of the Asabe
UNITO		floriana.nuzzo@unito.it	Article	Effect of nozzle selection and spray volume on droplet size and efficacy of Engenia		
UNITO		floriana.nuzzo@unito.it	Article	DEVELOPING A SYSTEM TO CONTROL THE AIR FLOW OF A PNEUMATIC SPRAYER		-
UNITO		floriana.nuzzo@unito.it	Article	Sensor-based variable-rate fungicide application in winter wheat.		Pest Management Sciences
UNITO		floriana.nuzzo@unito.it	Article	Sensor-based variable-rate rungicide application in winter wheat. Precision of a sensor-based variable rate sprayer	-	Aspects of applied biology
UNITO		floriana.nuzzo@unito.it	Article	Research on design method of self tracking spray vehicle in solar greenhouse.		Aspects of applied biology Journal of Shenyang Agricu
UNITO		_	Article			
UNITO		floriana.nuzzo@unito.it		Design and experiment of variable rate orchard sprayer based on laser scanning sens		
UNITO		floriana.nuzzo@unito.it	Article	Design of automatic navigation operation system for Lovol ZP9500 high clearance boo		
		floriana.nuzzo@unito.it	Article	Development of a prototype of telemetry system for monitoring the spraying operation		
UNITO		floriana.nuzzo@unito.it	Article	A True-Color Sensor and Suitable Evaluation Algorithm for Plant Recognition	Oliver Schmittmann, Peter	
UNITO		floriana.nuzzo@unito.it	Article	Development of a laser-guided, embedded-computer-controlled, air-assisted precision		
UNITO		floriana.nuzzo@unito.it	Article	VISION SYSTEM FOR SPRAYING MACHINE ADAPTIVE CONTROL		ENGINEERING FOR RURAL
UNITO		floriana.nuzzo@unito.it	Article	Development of real-time laser-scanning system to detect tree canopy characteristics		_
UNITO		floriana.nuzzo@unito.it	Article	Dicotyledon Weed Quantification Algorithm for Selective Herbicide Application in Maize		
UNITO		floriana.nuzzo@unito.it	Article	Advances in different technologies, such as global navigation satellite systems, geographics		
UNITO		floriana.nuzzo@unito.it	Article	DEVELOPMENT AND EVALUATION OF AN AUTOMATED SPRAY PATTERNATOR USIN		
UNITO		floriana.nuzzo@unito.it	Article	Orchard and vineyard real time spraying adjustments using ultrasonic echoes.		Aspects of Applied Biology
UNITO		floriana.nuzzo@unito.it	Article	Ultrasonic sensing of pistachio canopy for low-volume precision spraying.		Computers and Electronics
UNITO		floriana.nuzzo@unito.it	Article	Multispectral-based leaf detection system for spot sprayer application to control citrus	ps Larbi. P. A.: Ehsani. R.:	Biosystems Engineering



UNITO	floriana.nuzzo@unito.it	Article	Advances in different technologies, such as global navigation satellite systems, geograph	Conzoloz do Coto M : En Consolal Inque: Debatic April
UNITO	floriana.nuzzo@unito.it	Article	DEVELOPMENT AND EVALUATION OF AN AUTOMATED SPRAY PATTERNATOR USING I	
UNITO	floriana.nuzzo@unito.it	Article	Orchard and vineyard real time spraying adjustments using ultrasonic echoes.	Palleja, T.; Landers, A. J. Aspects of Applied Biology
UNITO	floriana.nuzzo@unito.it	Article	Ultrasonic sensing of pistachio canopy for low-volume precision spraying.	Maghsoudi, H.; Minaei, S Computers and Electronics
UNITO	floriana.nuzzo@unito.it	Article	Multispectral-based leaf detection system for spot sprayer application to control citrus ps	
UNITO	floriana.nuzzo@unito.it	Article		Dammer, K. H.; Adamek, I https://dl.sciencesocieties.
UNITO	floriana.nuzzo@unito.it	Article	Programmable Ultrasonic Sensing System for Targeted Spraying in Orchards	Stajnko, D.; Berk, P.; Lešní Sensors
UNITO	floriana.nuzzo@unito.it	Article	Electronic canopy characterization and variable rate application in Precision Fructiculture	
UNITO	floriana.nuzzo@unito.it	Article	Specim IQ: Evaluation of a New, Miniaturized Handheld Hyperspectral Camera and Its App	
UNITO	floriana.nuzzo@unito.it	Article	The BROWSE model for predicting exposures of residents and bystanders to agricultural	
UNITO	floriana.nuzzo@unito.it	Article	EVALUATION OF SPRAYER INTERNAL TANK CLEANING SYSTEMS ACCORDING TO ISC	
UNITO	floriana.nuzzo@unito.it	Article	Evaluation of sprayer internal tank cleaning systems according to ISO standard 22368-3.	
UNITO	floriana.nuzzo@unito.it	Article	Integrated catchment management for reducing pesticide levels in water: Engaging with s	Mohamad Ibrahim, I.H., Gill Science of the Total Enviro
UNITO	floriana.nuzzo@unito.it	Article	Sprayer development needs more focus on mitigation of environmental risks arising from	Roettele, M.; Balsari, P.; Aspects of applied biology
UNITO	floriana.nuzzo@unito.it	Article		Baio, F. H. R.; Neves, D. C Precision Agriculture
UNITO	floriana.nuzzo@unito.it	Article	Agricultural Sustainable Development by Variable-rate Spraying	Hossein, M.; Saeid, M.; International Journal of Agro
UNITO	floriana.nuzzo@unito.it	Article	Precision orchard sprayer based on automatically infrared target detecting and electrostal	He Xiongkui, Zeng Aljun, Liu International Journal of Agri
UNITO	floriana.nuzzo@unito.it	Article	Development of high level electrostatic charging air assisted sprayer utilizing conventions	Air assisted spraying, is a (International Conference on
UNITO	floriana.nuzzo@unito.it	Article	New Application Method for Reducing Pesticide Rate/ha and Cost in Plant Protection	Falchieri Davide Outlooks on Pest Manageme
UNITO	floriana.nuzzo@unito.it	Article	THE EFFECT OF DIFFERENT NOZZLES ON SPRAY DEPOSITION QUALITY OF FUNGICID	Vučajnk, F.; Sreš, A.; P Slovenskega posvetovanje
UNITO	floriana.nuzzo@unito.it	Article	Plausibility of variable coverage high range spraying: Experimental studies of an external	Patel, M. K.; Sahoo, H. K. Computers and Electronics
UNITO	floriana.nuzzo@unito.it	Article	Pressure, droplet size classification, and nozzle arrangement effects on coverage and dro	Ferguson, J. C.; Hewitt, A Crop Protection
UNITO	floriana.nuzzo@unito.it	Article	Spray drift of drift reducing nozzle types spraying a bare soil surface with a boom sprayer	Zande, J. C. van de; Mich Aspects of Applied Biology
UNITO	floriana.nuzzo@unito.it	Article	Researches Regarding the Influence of Height on Uniformity of Distribution of New Types	Marian, O.; Drocaș, I.; C BULLETIN OF UNIVERSITY
UNITO	floriana.nuzzo@unito.it	Article	Evaluation of a Developed Electrically Operated Knapsack Sprayer	J.O. Awulu, P.Y. Sohotshar International Journal of Scie
UNITO	floriana.nuzzo@unito.it	Article	SPRAY NOZZLES PERFORMANCE IN FUNGICIDES APPLICATIONS FOR ASIAN SOYBEA	CLÉBER FRANÇA DURÃO , Journal of the Brazilian Ass
UNITO	floriana.nuzzo@unito.it	Article	DRIFT REDUCTION RATE OF THREE ANTIDRIFT NOZZLES USED FOR SPRAY APPLICAT	Miran LAKOTA, Mario LEŠN VI International Scientific S
UNITO	floriana.nuzzo@unito.it	Article	PERFORMANCE OF HERBICIDE SPRAYING METHODS AT DIFFERENT APPLICATION VO	Ali Bolat, Ali Bayat, Ozcan Fresenius Environmental Bul
UNITO	floriana.nuzzo@unito.it	Article	Spray drift reduction under Southern European conditions: A pilot study in the Ecopest Pr	Konstantinos M.KasiotisaKy Science of The Total Enviro
UNITO	floriana.nuzzo@unito.it	Article	Drift reducing potential of low drift nozzles with the use of spray-hoods	R.L. Roten, J.C. Ferguson, NEW ZEALAND PLANT PRO
UNITO	floriana.nuzzo@unito.it	Article	Reducing Pesticide Drift by Considering Propeller Rotation Effects From Aerial Application	Steven J. Thomson, Alvin F Sustainable Agriculture Res
LAUTO				
UNITO	floriana.nuzzo@unito.it	Article	Analyze of drift loses in plum and apple orchards and measures for their reducing	Aleksandar Sedlar, Rajko Bugarin, Jan Turan, Vladimir V
UNITO	floriana.nuzzo@unito.it floriana.nuzzo@unito.it	Article Article	Analyze of drift loses in plum and apple orchards and measures for their reducing Advanced drift reduction in orchard spraying	Aleksandar Sedlar, Rajko Bugarin, Jan Turan, Vladimir \ Wenneker, M.; Nieuwenhuk Aspects of Applied Biology
	floriana.nuzzo@unito.it		Advanced drift reduction in orchard spraying	Wenneker, M.; Nieuwenhuit Aspects of Applied Biology
UNITO	floriana.nuzzo@unito.it floriana.nuzzo@unito.it	Article Article	Advanced drift reduction in orchard spraying Improvements in pesticide drift reduction technology (DRT) call for improving liability provi	Wenneker, M.; Nieuwenhuk Aspects ofApplied Biology Palardy, N.; Centner, T. J. Land Use Policy
UNITO	floriana.nuzzo@unito.it	Article	Advanced drift reduction in orchard spraying Improvements in pesticide drift reduction technology (DRT) call for improving liability provi Spray drift reduction techniques for vineyards in fragmented landscapes	Wenneker, M.; Nieuwenhuk Aspects ofApplied Biology Palardy, N.; Centner, T. J. Land Use Policy Otto, S.; Loddo, D.; Baldoir Journal of Environmental Ma
UNITO UNITO UNITO UNITO	floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it	Article Article Article	Advanced drift reduction in orchard spraying Improvements in pesticide drift reduction technology (DRT) call for improving liability provi Spray drift reduction techniques for vineyards in fragmented landscapes Drift reduction of low drift nozzles in spraying citrus orchards.	Wenneker, M.; Nieuwenhui; Aspects ofApplied Biology Palardy, N.; Centner, T. J. Land Use Policy Otto, S.; Loddo, D.; Baldoir Journal of Environmental Ma Planas, S.; Torrent, X.; Ch SuproFruit 2015 – 13th Wor
UNITO UNITO UNITO UNITO UNITO UNITO	floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it	Article Article Article Article Article Article	Advanced drift reduction in orchard spraying Improvements in pesticide drift reduction technology (DRT) call for improving liability provi Spray drift reduction techniques for vineyards in fragmented landscapes Drift reduction of low drift nozzles in spraying citrus orchards. Emission reduction in orchards by improved spray deposition and increased spray drift re	Wenneker, M.; Nieuwenhui, Aspects of Applied Biology Palardy, N.; Centner, T. J. Land Use Policy Otto, S.; Loddo, D.; Baldoir Journal of Environmental Ma Planas, S.; Torrent, X.; Ch SuproFruit 2015 – 13th Wor Wenneker, M.; Zande, J. C. Aspects of Applied Biology
UNITO UNITO UNITO UNITO UNITO UNITO UNITO UNITO	floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it	Article Article Article Article	Advanced drift reduction in orchard spraying Improvements in pesticide drift reduction technology (DRT) call for improving liability provi Spray drift reduction techniques for vineyards in fragmented landscapes Drift reduction of low drift nozzles in spraying citrus orchards. Emission reduction in orchards by improved spray deposition and increased spray drift re- Technical solutions to reduce drift of pesticides in apple orchards of Trentino	Wenneker, M.; Nieuwenhui: Aspects of Applied Biology Palardy, N.; Centner, T. J. Land Use Policy Otto, S.; Loddo, D.; Baldoir Journal of Environmental Ma Planas, S.; Torrent, X.; Ch SuproFruit 2015 – 13th Wor Wenneker, M.; Zande, J. C. Aspects of Applied Biology Bondesan, D.; Rizzi, C.; Gi Fourth European Workshop
UNITO UNITO UNITO UNITO UNITO UNITO UNITO UNITO UNITO	floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it	Article Article Article Article Article Article Article Article Article	Advanced drift reduction in orchard spraying Improvements in pesticide drift reduction technology (DRT) call for improving liability provi Spray drift reduction techniques for vineyards in fragmented landscapes Drift reduction of low drift nozzles in spraying citrus orchards. Emission reduction in orchards by improved spray deposition and increased spray drift re Technical solutions to reduce drift of pesticides in apple orchards of Trentino Drift from fruit sprayers — why not prevent it at source?	Wenneker, M.; Neuwenhul; Aspects ofApplied Biology Palardy, N.; Centner, T. J. Land Use Policy Otto, S.; Loddo, D.; Baldoir Journal of Environmental Ma Planas, S.; Torrent, X.; Ch SuproFruit 2015 – 13th Wor Wenneker, M.; Zande, J. C, Aspects ofApplied Biology Bondeaan, D.; Rizzl, C.; Gii Fourth European Workshop aNDREW LANDERS aspects of applied biology.
UNITO	floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it floriana.nuzzo@unito.it	Article	Advanced drift reduction in orchard spraying Improvements in pesticide drift reduction technology (DRT) call for improving liability provi Spray drift reduction techniques for vineyards in fragmented landscapes Drift reduction of low drift nozzles in spraying citrus orchards. Emission reduction in orchards by improved spray deposition and increased spray drift re Technical solutions to reduce drift of pesticides in apple orchards of Trentino Drift from fruit sprayers — why not prevent it at source? Assessment of Agricultural Best Management Practices Using Modeis: Current Issues an	Wenneker, M.; Nieuwenhul; Aspects ofApplied Blology Palardy, N.; Centner, T. J. Otto, S.; Loddo, D.; Baldoir Journal of Environmental Ma Planas, S.; Torrent, X.; Ch SuproFruit 2015 – 13th Wor Wenneker, M.; Zande, J. C. Aspects ofApplied Blology Bondesan, D.; Rizzl, C.; Gi Fourth European Workshop ANDREW LANDERS aspects of applied blology - d Future Perspectives Water
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ZODR		Article	A NEW STRUCTURE OF THE STABILIZATION SYSTEM OF A SUSPENDED SPRAYER BO	OM1	
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ZODR		Article	The scope and status of standardization workontechnical condition testsplant protection		Institute of Horticulture, Ski
ZODR	K.BLASZCZYK@ZODR.PL		Assumptions for technical requirements and control methods custom plant protection equip		
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ZODR	K.BLASZAYK@ZODR.PL	Article	SELECTED ASPECTS OF CONSTRUCTION AND USEFIELD SPRAYERS ATTACHED	Paweł Artur Kluza . Rafał I	Acta Sci. Pol. Technica Agra



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ZODR		Article	Institute of Technology and Life Sciences. Mazovian Research Center in Kludzienek	Institute of Technology and	d Institute of Technology and
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UPC		Article	Teyme develops vine nebuliser with EU support	Redacción interempresas	Interempresas
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ZODR		Article	IMPLEMENTATION OFFER		
ZODR		Article	Konferencja "Racjonalna Technika Ochrony Roślin"		
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ZODR		Article	DPOR brochure - Drift reduction		
ZODR	K.BLASZCZYK@ZODR.PL	Article	New solutions in plant protection technology including drift reduction techniques	Holownicki, Doruchowski, G	Bodyń, Świechowski
ZODR		Article	DOBRE DYSZE DOBRY OPRYSK	AGROFAKT.PL	
ZODR		Article	sprayers without secrets	Stefan Szolc	
ZODR		Article	sprayers without secrets	Stefan Szolc	
ZODR		Article	TECHNICAL AND ECONOMIC ASPECTS	dr inż. Mirosław ZAGÓRDA	, prof. dr hab. inż. MariaWALC
ZODR		Article	Research on the technical efficiency of equipment for the application of plant protecti	ion products	
UNITO	floriana.nuzzo@unito.it	Article	Mitigating the Risks of Plant Protection Products in the Environment: MAgPIE	Editors: Anne Alix, Colin B	rown, Ettore Capri, Gerhard G

Projects

Organisation	₩	Email	▼ What is your SETA? ▼T	Acronym (English)	Title (English)	Link to EU database (C Keywords (English) Keywo
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	/I CROPS	Intelligent sensing and manipulation for sustainable production and harvesting of high value cro	p https://cordis.europa.eu/prc Design of sprayer, Drift reduction c
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	/I RHEA	ROBOT FLEETS FOR HIGHLY EFFECTIVE AGRICULTURE AND FORESTRY MANAGEMENT	https://cordis.europa.eu/prc Map based ppp technology, GPS,
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	/I ATOMIX	Boosting the efficiency of current agricultural atomisers by using ultrasonics emitters	https://cordis.europa.eu/prc Design of sprayer, Drift reduction c
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	/I MODEM_IVM	A web-based system for real-time Monitoring and Decision Making for Integrated Vineyard Mana	g https://cordis.europa.eu/prc Map based ppp technology, Variab
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	/I BIOMUSH	Early detection and bio-control of mushroom pests and diseases in an Integrated Pest Manager	m https://cordis.europa.eu/prc Early disease detection systems, !
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	/I RUSTWATCH	A European early-warning system for wheat rust diseases	https://cordis.europa.eu/prc Early disease detection systems
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	QDETECT	Developing quarantine pest detection methods for use by national plant protection organization	https://cordis.europa.eu/prc Early disease detection systems
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	/I VALITEST	Validation of diagnostic tests to support plant health	https://cordis.europa.eu/prc Early disease detection systems
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	GIDROM	Drone-based integrated monitoring system for early detection of crop pathology and pest control	https://cordis.europa.eu/prc Early disease detection systems, I
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	VITISENS	COST-EFFECTIVE HAND-HELD DEVICE FOR RAPID IN-FIELD DETECTION OF FLAVENSCENCE	E https://cordis.europa.eu/prc Early disease detection systems, i
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Development of an innovative automated and wireless trap with warning and monitoring modules	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Galileo Enhanced Solution for Pest Detection and Control in Greenhouse Fields with Autonomou	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	/I TOAS	New remote sensing technologies for optimizing herbicide applications in weed-crop systems	https://cordis.europa.eu/prc Map based ppp technology, Early o
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Novel automatic and stand-alone integrated pest management tool for remote count and bloaco	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		An Innovative Integrated Field Sensor system providing a precise farming tool to reduce produc	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		High Tech and Disruptive Prices Global Solution for Real Time Alerts on Agrifood Pest, based of	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Novel sensor based soil-plant-climate control system for European smart farming	https://cordis.europa.eu/prc
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Toolbox of cost-effective strategies for on-farm reductions in N losses to water	https://cordis.europa.eu/prc DSS, Decision support system
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Innovative Eco-Technologies for Resource Recovery from Wastewater	https://cordis.europa.eu/prc PPP water contamination
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Bystanders, Residents, Operators and WorkerS Exposure models for plant protection products	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		VINEyardROBOT	https://cordis.europa.eu/prc Canopy characterization, Map base
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Precision agricultural crop monitoring using laser scanning and unmanned aerial vehicles	https://cordis.europa.eu/prc Canopy characterization, Map base
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Robot shoots herbicide only on weeds, reducing usage by more than 90%	https://cordis.europa.eu/prc Nozzle type, Requirement for new
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Aerial Data Collection and Analysis, and Automated Ground Intervention for Precision Farming	https://cordis.europa.eu/prc Map based ppp technology, Early o
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Integrated robotic and software platform as a support system for farm level business decisions	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Innovative strategies for the early detection and control of Sclerotium rolfsii in potatoes in Andi	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Early acoustic detection of grain storage insect pests (Beetle Sound Tube)	https://ec.europa.eu/eip/ag/ Early disease detection systems
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Optimization of Resource Use and Systems to Protect the Environment	https://ec.europa.eu/eip/ag Early disease detection systems
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Online Diagnostic of Plant Status for the Optimization of Growing Conditions	https://ec.europa.eu/eip/ag Sensors
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	-	Sensors Sustainability	https://ec.europa.eu/eip/ag Sensors
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Data assimilation from soil-crop-climate sensor network in IRRINET DSS	https://ec.europa.eu/eip/ag
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	-	Collective washing place De Rips	https://ec.europa.eu/eip/ag Design of sprayer, Requirement for
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Implementation of spry drones in steep slope viticulture	https://ec.europa.eu/eip/agi Drift reduction devices, Early disea
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Robotic autonomous aerial controlled spray system and prediction of fruit production	https://ec.europa.eu/eip/agi Design of sprayer, Drones sistem
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Operational Group for the deployment of innovative sensors in the vineyard for the prevention	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri. Project (Cordis/Eip-Agri.		Technological and Environmental Innovation for the management of treatments in the heroic vit	
UNITO		floriana.nuzzo@unito.it floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri Project (Cordis/Eip-Agri		In-farm remediation of agro-waste water with pesticides from remnants, cleaning and rinse by so Arbonovateurs for resilience in fruit growing and fruits growers take pride in their craft.	https://ec.europa.eu/eip/agi Drift reduction practices. PPP Dos-
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Arbonovateurs for resilience in fruit growing and fruits growers take pride in their craft.	http://ict-agri.eu/node/3617. Early disease detection systems, \$
UNITO					Sensor-based online-detection of pests in wheat	
UNITO		floriana.nuzzo@unito.it floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Sensor-based online-detection or pests in wheat Grape monitoring robot to help winegrowers manage their vineyards and find the best time to his	http://ict-agri.eu/node/3617 Map based ppp technology, Early of
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Grape monitoring rooot to neip winegrowers manage their vineyards and find the best time to his Monitoring key environmental parameters to improve apple production in South Tirol, Italy	https://ec.europa.eu/eip/ag Vanable rate application technique: https://ec.europa.eu/eip/ag Sensors, Remote Sensing
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri Project (Cordis/Eip-Agri		Monitoring key environmental parameters to improve apple production in South Tirol, Italy Remote sensing of weed infestations	http://ict-agri.eu/node/3618 Early disease detection systems, 3
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Dynamic position control for hydraulic modules demonstrated on a still tractor in a vineyard	http://ict-agri.eu/node/3619 Tractor, Vineyard, Hydraulic modul-
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri	-	Exploiting novel canopy sensors for improved disease management, variety selection and resili	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri.		Expressing more camply actions for improved disease management, variety selection and resili	http://ict-agri.eu/node/3670 Drift reduction practices, Sensors,
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri			http://ict-agri.eu/node/3630 Design of sprayer, Requirement for
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri			http://ict-agri.eu/node/3631 Operator safety. Sensors
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri			http://ict-agri.eu/node/3631 Early disease detection systems.
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Drone-assisted precision farming via disposable sensors and low cost hyperspectral imagers	http://ict-agri.eu/node/3681. Requirement for new sprayers, Mag
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri			http://ict-agri.eu/node/3639 Drones, Sensors
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri			http://ict-agri.eu/node/3639 Design of sprayer, Canopy charact
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri			http://ict-agri.eu/node/3638 Map based ppp technology, Senso
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Semi-Autonomous Vineyard Spraying Agricultural Robot	Design of sprayer, Variable rate ap
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Modular and Cooperative Robot for Vinevards	http://ict-agri.eu/node/3815/ Robots
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Precision agriculture for the sustainable management of weed	http://ict-agri.eu/node/3666 Drift reduction devices. Map based
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri			http://ict-agri.eu/node/3614 Map based ppp technology, Senso
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Networked Mimic Sensors for Crop Enhancement & Disease Control	http://ict-agri.eu/node/3626 Canopy characterization, Early dis-
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		mobile soil-sensor-module and data fusion for resource efficient plant production	http://ict-agri.eu/node/3618 lab on a chip, input, fertilizer, soil a
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Tractor-mount sensing for precision application of Nitrogen and control of milling wheat protein	
UNITO		floriana.nuzzo@unito.it	Project (Cordis/Eip-Agri		Theoretical Developments and Empirical Measurement of the External Costs of Pesticides	https://cordis.europa.eu/prc



UNITO	floriana.nuzzo@unito.it	Project (Co	ordis/Eip-Agri/I VAROS				http://ict-agri.eu/node/3632 Variable rate application ter	
	loriana.nuzzo@unito.it Project (Cordis/Eip-Agri/I CropWatch				http://ict-agri.eu/node/3619 Canopy characterization, M			
UNITO	oriana.nuzzo@unito.it Project (Cordis/Eip-Agri/I RoboWeedSupport		http://ict-agri.eu/node/3672 Early disease deter					
	oriana.nuzzo@unito.it Project (Cordis/Eip-Agri/LIFE/Interreg)			INTEGRATION OF MULTI-SENSORS INFORMATION AND MACHINE LEARNING FOR ACCURATE http://ict-agri.eu/node				
UNITO		riana.nuzzo@unito.it Project (Cordis/Eip-Agri/LIFE/Interreg) riana.nuzzo@unito.it Project (Cordis/Eip-Agri/l SAS)	Automating weed m Smart Agriculture S	apping in arable fields for precision farming	http://ict-agri.eu/node/3625 Early disease detection sys http://ict-agri.eu/node/3639 DSS, Decision Support Sys	
UNITO	floriana.nuzzo@unito.it				AGRIDRONES SER		http://ict-agri.eu/node/3638 Canopy characterization, W	
UNITO	floriana.nuzzo@unito.it	, , , , , , , , , , , , , , , , , , , ,					http://ict-agri.eu/node/3631 Sensors,	
UNITO	floriana.nuzzo@unito.it		ordis/Eip-Agri/I BoniPS			e detection of scoring data and usage for varible plant protection in arable far		
	floriana.nuzzo@unito.it		ordis/Eip-Agri/LIFE/Interre			NEW TECHNOLOGICAL AND CONCEPTUAL TOOLS FOR THE IMPLEMENTA		
	floriana.nuzzo@unito.it floriana.nuzzo@unito.it		ordis/Eip-Agri/LIFE/Interre ordis/Eip-Agri/I SENSAGRI)	PHOTONIC-BASED Sensor based Smar	TOOLS FOR SUSTAINABLE AGRONOMIC MANAGEMENT AND USE OF PES	http://ict-agri.eu/node/3701: Drift reduction devices, Car https://cordis.europa.eu/prc Canopy characterization, S	
	floriana.nuzzo@unito.it		ordis/Eip-Agri/I DAW			r Agricultural Water Management): Working together on innovations in agricult		
	floriana.nuzzo@unito.it		ordis/Eip-Agri/I S-GAP		Smart Good Agricul		http://ict-agri.eu/node/3728 Easy use of technology	
UNITO	floriana.nuzzo@unito.it	Project (Co	ordis/Eip-Agri/I Targ_App		Putting sensors to	Putting sensors to work – Targeted application of nutrients and pesticides http://ict-agri.eu/node/363		
	floriana.nuzzo@unito.it		ordis/Eip-Agri/I MartA			http://ict-agri.eu/node/3616 Ea		
	floriana.nuzzo@unito.it	-	ordis/Eip-Agri/I BLIGHTSE				http://ict-agri.eu/node/3624 Early disease detection sys	
	floriana.nuzzo@unito.it floriana.nuzzo@unito.it		ordis/Eip-Agri/LIFE/Interre	,		ction for precision agriculture: automated monitoring of pathogen movement al data from UAV platforms in precision farming for weed detection and manag	http://ict-agri.eu/node/36237	
	floriana.nuzzo@unito.it		ordis/Eip-Agri/I BiDa-LAP	,		ne agricultural production in an innovative way – Sub project title: Developmen		
UNITO	floriana.nuzzo@unito.it	Project (Co	ordis/Eip-Agri/I OLIWES				http://ict-agri.eu/node/3677 Early disease detection sys	
UNITO	floriana.nuzzo@unito.it	Project (Co	ordis/Eip-Agri/I RichWater		Innovative technological	gy for wastewater reclamation in agriculture Cost-effective and environmental	https://cordis.europa.eu/prc PPP water contamination, \	
	floriana.nuzzo@unito.it		ordis/Eip-Agri/I Farmwise			or sustainable weeding of sugar beet	http://ict-agri.eu/node/3620 Drift reduction practices, E	
UNITO	floriana.nuzzo@unito.it floriana.nuzzo@unito.it		ordis/Eip-Agri/LIFE/Interre ordis/Eip-Agri/LIFE/Interre			arming atomizer prototype for optimization of plant protection application on h oplication of phytosanitary products	http://ict-agri.eu/node/3669 Design of sprayer, Requirer http://ict-agri.eu/node/3666 Design of sprayer, Requirer	
UPC	tionana.nuzzo@unito.it		ordis/Eip-Agri/LIFE/Interre)		pplication of phytosanitary products lemonstrative and innovative strategies to reduce the use of phytosanitary pr		
	floriana.nuzzo@unito.it		ordis/Eip-Agri/I H3O			hy environment, Healthy finances through Optimization	https://cordis.europa.eu/prc Design of sprayer, Drift red	
UNITO	floriana.nuzzo@unito.it	Project (Co	ordis/Eip-Agri/I Healthy Gr	enhouse	Gezonde Kas/ Heal	thy Greenhouse – an innovative crop protection system for greenhouses	https://ec.europa.eu/region: Early disease detection sys	
							<u> </u>	
Organisation	Email	₩	What is your SETA?	Acronym	(English)	Title (English)	Keywords (English)	
IFV	adrien.lienard@vi	gnevin.cor	Project (Other Project	s) OISEAU		Intra-parcel dose modulation system for phytosanitary products	and fertilizers Map based ppp technology,	
IFV	adrien.lienard@vi	gnevin.com	Project (Other Project	s) PulVéFix		PulVéFix - Development and assessment of a new application me	ean of phytosanitar Design of sprayer, Drift red	
IFV	adrien.lienard@vi	gnevin.com	Project (Other Project	s) DIAPHYT		setting of a risk assessment tool of phytopharmaceutic products	at farm scale PPP water contamination, C	
ILVO	david.nuyttens@i	ilvo.vlaand	Project (Other Project	s) BCO-SPR	AY	Fogging of biological control organisms (BCOs) in storage rooms	for control of stora Design of sprayer, Nozzle t	
ILVO	david.nuyttens@i	ilvo.vlaand	Project (Other Project	BIOSPRA	Y	Development of an efficient application of entomopathogenic nen	natodes in vegetabl Design of sprayer, Nozzle t	
ILVO	david.nuyttens@i	ilvo.vlaand	Project (Other Project	s) CAMERA	SPRAY	Integration of imaging techniques for the quantitative characterize	ation of pesticide s Nozzle type, Droplet Size C	
UNITO	floriana.nuzzo@u	ınito.it	Project (Other Project	s) FI-ORAM	A	Future Internet - Orchards Automated Management	Map based ppp technology,	
UNITO	floriana.nuzzo@u	ınito.it	Project (Other Project	s) Agroptima	1	The Internet of Fields": mobile farm management software	Map based ppp technology	
UNITO	floriana.nuzzo@u	ınito.it	Project (Other Project	s)		Develop an automated system for precision application of nitroge	en fertiliser and plar DSS, Decision Support Syst	
UNITO	floriana.nuzzo@u	nuzzo@unito.it Project (Other Projects) E		s) E-Bas		Electronic Consulting Assistant: Development and implementation	n of a management DSS, Decision Support Syst	
UNITO	floriana.nuzzo@u	ınito.it	Project (Other Project	s) PAM		(Pesticide Application Manager): Decision support in crop protect	tion based on terral Drift reduction practices, Ea	
UNITO	floriana.nuzzo@u	inito.it	Project (Other Project	s) EMRA			DSS, Decision Support Syst	
UNITO	floriana.nuzzo@u	inito.it	Project (Other Project	s) DAMAV			Early disease detection sys	
UNITO	floriana.nuzzo@u	ınito.it	Project (Other Project	(Other Projects)		Sustainable Intensification of Agricultural Cropping Systems Sup	ported by Smart Sv Canopy characterization, DS	
UNITO	floriana.nuzzo@u	ınito.it	Project (Other Project	s) ROVITIS			Early disease detection sys	
UNITO	floriana.nuzzo@u	ınito.it	Project (Other Project	s) BODI			Easy use of technology, DS	
UPC			Project (Other Project	s) OPTIDOS	A	Reduction of the use of phytosanitary products in tree crops. Op	stimization of volum Nozzle type, Drift reduction	
UPC			Project (Other Project	s) SAFESPF	YAY	Comprehensive strategies for a safe and effective phytosanitary	use. Spraying prec Drift reduction devices, Mag	
UPC			Project (Other Project	s) Innolivar		Olive grove innovation and technification	Design of sprayer, Drift redu	
UPC			Project (Other Project	s) TecnoGIM	И	Development of new technological and conceptual tools for the in	mplementation of In Map based ppp technology,	
UPC			Project (Other Project	s) Greenhou	seSat	Identification based on greenhouse horticultural objects from ste	reo WorldView-3 sa Map based ppp technology,	
UPC			Project (Other Project	s) DARP		Practical demonstration of the applicability of vegetation maps for	or the variable appli Map based ppp technology,	
UPC			Project (Other Project	s) DARP		Practical demonstration of the applicability of vegetation maps for	or the variable appli Map based ppp technology,	
UPC			Project (Other Project	B) GOPHYTO	OVID	Optimisation of the use of phytosanitary products in viticulture of	n the basis of vigor Map based ppp technology,	
UPC			Project (Other Projects) AgVANCE			Photonics-based tools for agronomic management and the use o	ols for agronomic management and the use of sustainable crop (Drift reduction devices, Maj	
UPC			Project (Other Project	s) MECAOLI	VAR	Technological innovations in the mechanization of the olive grove by means of Pre- Design of sprayer, PPP w		
ILVO	david.nuyttens@i	lvo.vlaand	Project (Other Project	roject (Other Projects) SPRAYSA		Operator exposure for greenhouse spray applications	Design of sprayer, Easy us	
ILVO	david.nuyttens@i	ilvo.vlaand	Project (Other Project	s) DUSTDRI	FT	Measuring and innovative techniques to reduce dust drift from pe	esticide seed dress Seed treatment, seed coati	
ILVO	david.nuyttens@i	ilvo.vlaand	Project (Other Project	s) FRUITSPI	RAY	An integrated approach to investigate the orchard spraying proce	ess using a CFD mc Design of sprayer, Nozzle t	
ILVO	david.nuyttens@i	ilvo.vlaand	Project (Other Project	s) GREENH	DUSESPRAY	Optimization of spray application technology in ornamental crops	Design of sprayer, Nozzle t	
ILVO	david.nuyttens@i	ilvo.vlaand	Project (Other Project	s) SPRAYDE	RIFT	Drift from field crop sprayers using an integrated approach	Nozzle type, Drift reduction	
IFV	adrien.lienard@vi	gnevin.com	Project (Other Project	s) ROVIPO		ROVIPO : the polyvalent robot for viticulture	Design of sprayer, Canopy	
IFV	adrien.lienard@vi	gnevin.com	Project (Other Project	s) PULVARE	30	PULVARBO	Design of sprayer, Nozzle t	
IFV	adrien.lienard@vign		Project (Other Projects) Stopdrift			StopDrift: Classification of sprayers on drift risk, identification of	practices and deve Nozzle type, Drift reduction	
IFV	adrien.lienard@vi	gnevin.com	Project (Other Project	s)		DIRECT INJECTION OF PLANT PROTECTION PRODUCTS	Design of sprayer, direct inj	
IFV	adrien.lienard@vi	gnevin.com	Project (Other Project	s) PREAMIS	SE	PREAMISSE (Tree protection with secured micro-injection)	Drift reduction devices, mic	
IFV		_	Project (Other Project			LABELPULVE : Setting up a label for wine-growing sprayers base		
IFV	adrien.lienard@vignevin.d					Effective Dose from Laboratory to Vineyard & Suitable Spraying		
IFV	adrien.lienard@vignevin.cor Project (Other Proj				Dose Viti	ArchiTechDose Viti Methodology and scenarios for agro-environn		
IFV	adrien.lienard@vignevin.cor Project (Other Projects) PULV		s) PULVEDE	RONE	PULVEDRONE: UAV spraying in perennial crops in a context of	acological transition sprayer performances chara		
IFV	adrien.lienard@vignevin.coi Project (Other Projects) PULVET		s) PULVETR	OIT	PULVETROIT : Acquisition de références sur les dépôts de proc	duits phytosanitaire Canopy characterization, Pl		
IFV		_	Project (Other Project			TechnoDoseViti Experimental modelling of phytosanitary treatme		
IFV			Project (Other Project			ECOPULVE: Optimization of spraying equipment to reduce drift in		
UNITO	floriana.nuzzo@u		Project (Other Project			Train Operators to Promote best management Practices & Sutain		
UNITO	floriana.nuzzo@		Project (Other Project			Mitigating the Risks of Plant Protection Products in the Environm		
UNITO	floriana.nuzzo@u		Project (Other Project			Safe & Sustainable Use Initiative	Best Practices	