



## **Deliverable 4.3: Online Content Report**

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



## Document Summary

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## Abstract

This online content report presents the website functionalities and content creation, operation and maintenance activities for the INNOSETA data platform, which is in compliance with the public deliverables of the project. This is the first submission of this report, on month 36 at the end of the project, an update of this report will be provided. This deliverable is the report version of the deliverables D2.1 “Network facility” and D2.2 “Virtual test bed and collaboration tool”.



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# 1 Website

The website can be accessed over: [www.innoseta.eu](http://www.innoseta.eu) and is available in English and in the 7 INNOSETA hub languages (Greek, Spanish, Italian, French, Swedish, Polish, Dutch). 

## 1.1 General structure

The website is currently composed of 37 pages. These are structured according to the menu presented in Fig. 1.

Home	About	News & Events	INNOSETA Platform	Community	Contact
	> Aim	> News		> Other Thematic Networks	
	Partners	Event Calendar		Links	
	> AGENSO	Newsletter		EIP-AGRI	
	AUA				
	CEMA				
	CERTH-iBO				
	CONFAGRICOLTURA				
	COPA-COGECA				
	ECPA				
	IFV				
	ILVO				
	UNITO				
	UPA				
	UPC				
	VISAVI				
	ZLTO				
	ZODR				
	7 hubs				
	> Spain				
	Italy				
	France				
	Greece				
	The Netherlands-Belgium				
	Sweden				
	Poland				
	Work Packages				
	Impact				
	Documents				

*Figure 1: Menu of the INNOSETA website*

The website is built to best present the thematic network INNOSETA and its aims and activities.

This is already clear from the home page (Fig. 2). There we centralised the main objectives of the project, highlighted the 7 regional hubs and inform the users of upcoming events related to innovative spraying. Through our real-time Twitter Feed we can inform our users of all INNOSETA related news. More information of events, were INNOSETA was presented, is provided in detail in the INNOSETA news posts for which the links to the most recent contributions are also shown on our homepage.

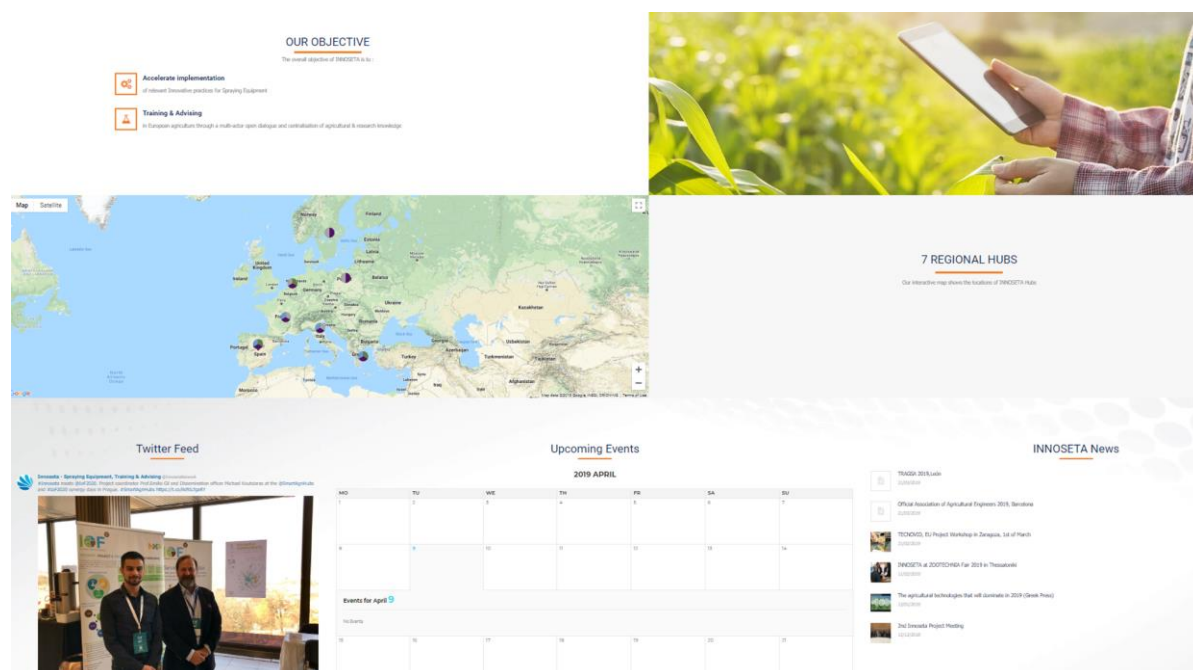


Figure 2: Items presented on the INNOSETA homepage

## 1.2 Functionalities

### 1.2.1. Informing

With this website, we want to inform the spraying community of the **work performed within the INNOSETA project**. Under the Tab “About” we inform the public on the project’s aim and expected impact of the project. In the aim page we focus on the main objective of the project, i.e. closing the gap between the available novel high-end crop protection solutions -either commercial or from applicable research results- with the everyday European agricultural practices. This is because we’ve noticed that the fast pace of development, their complexity, combined with the diversity in farm sizes in Europe, cultural perception, lack of expertise and economic constraints are drawbacks that have hindered adoption by farmers of new spraying technologies. In addition, an innovation gap exists, as “researchers invent things that are often not picked up by the end-users as they are often not aware of the applied research, as well as they often don’t deal with the issues that matter to farmers”. Our approach is explained to help bridge this adoption gap (Fig 3). By the end of the project we will have >350 farmers participating in the WP2 survey, and have interviewed 35 domain experts. Our plan is to organise 21 regional workshops, 3 transnational workshops, 2 brokerage events. With these events, we want to capture 50 grassroots-level ideas/needs and promote 5 examples of successful innovative processes in SETA. More than 200 innovative SETA solutions will be inventoried, of which over 100 will be identified with real application potential. These will be presented on our online database and knowledge exchange platform. 3 newsletters/year will be published. Finally we intend to formulate a policy recommendation brief based on the findings of this project and the interactions with the SETA community (<http://www.innoseta.eu/impact/>). Also the public deliverables are uploaded on the website (<http://www.innoseta.eu/documents/>).

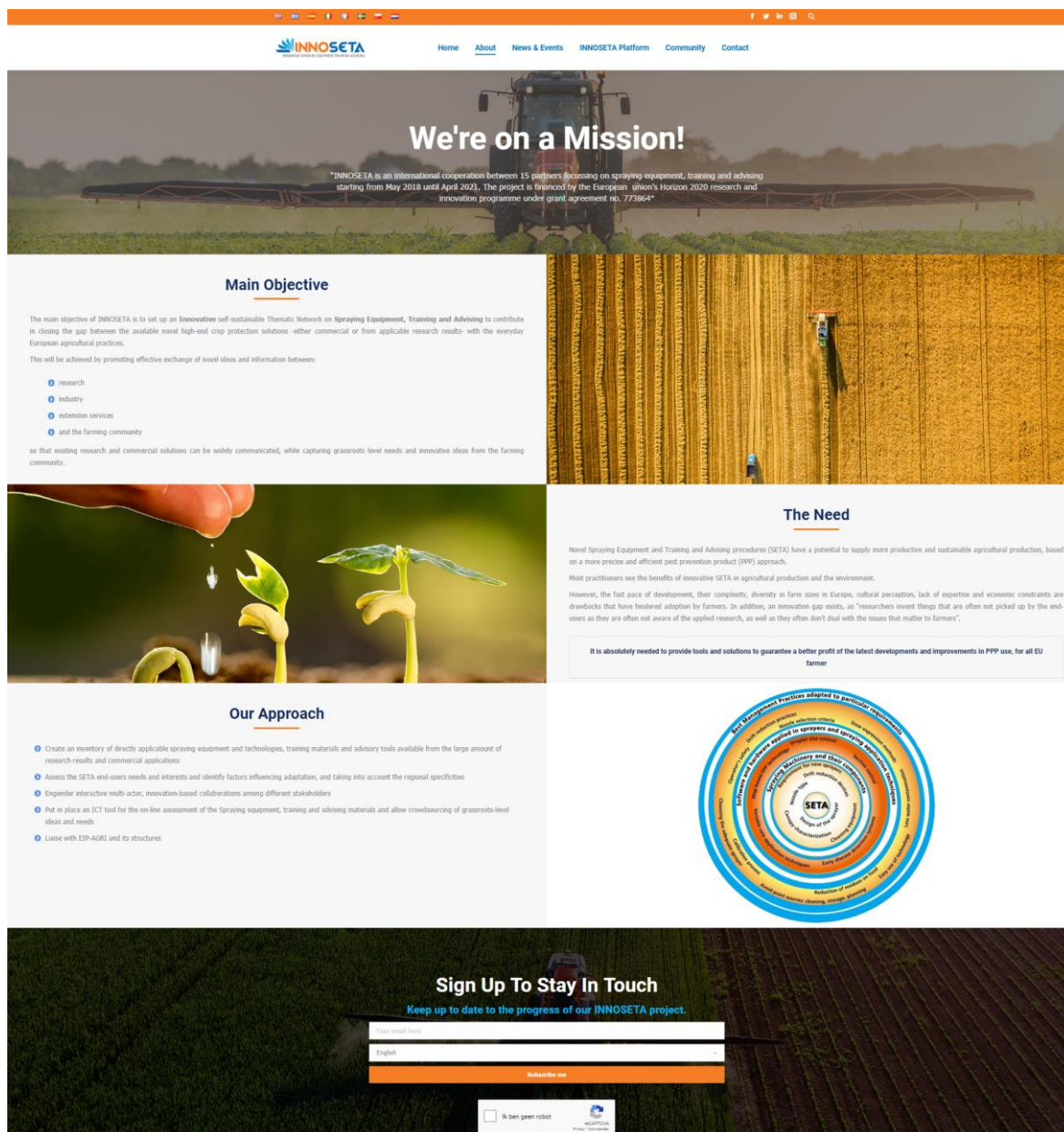


Figure 3: Informing the public about the mission of the INNOSETA project <http://www.innoseta.eu/aim/>

The website also **offers information on other relevant thematic networks** that are currently running by providing links to their project websites (<http://www.innoseta.eu/other-thematic-networks/>) and links to **projects focussing on spraying innovations** for optimized PPP use (<http://www.innoseta.eu/links/>). These will be updated regularly and could be further extended based on the EU projects identified in Task 1.2 and reported in Deliverable 1.2. The in Task 3.1 identified and in Deliverable 3.1 reported relevant **existing networks dealing with SETA across Europe** will also be integrated on the website. We aim to provide through the INNOSETA website a one-stop site to all relevant news, projects, events and stakeholders dealing with innovative spraying techniques.



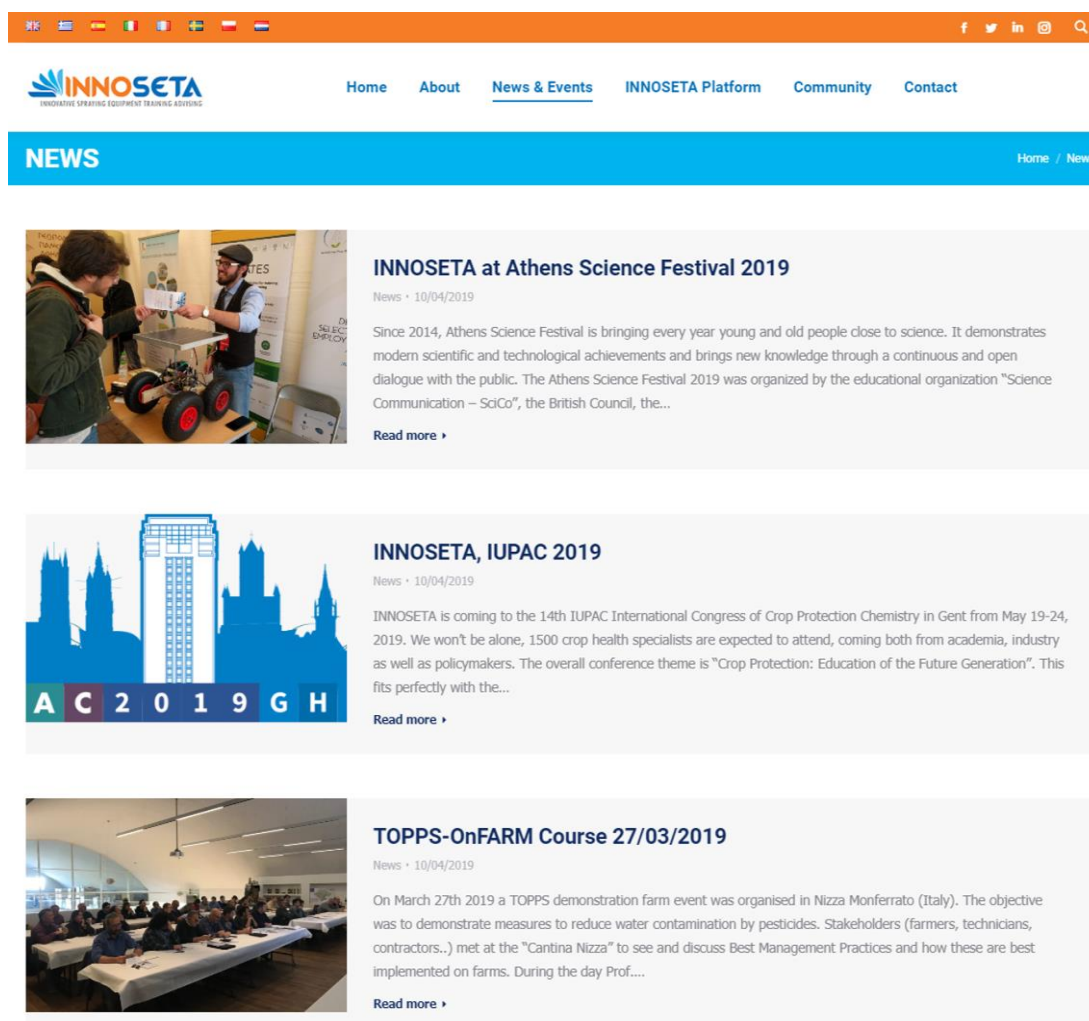


Figure 4: News posts from our INNOSETA partners on the website <http://www.innoseta.eu/news/>

All partners provide small news items in the website to **inform the public on events where INNOSETA will be/was present** (Fig. 4). These events are announced on the INNOSETA event calendar (Fig. 5). In each of the 7 Hub pages, the regional SETA events are also announced (<http://www.innoseta.eu/7-hubs/netherlands-belgium/>).

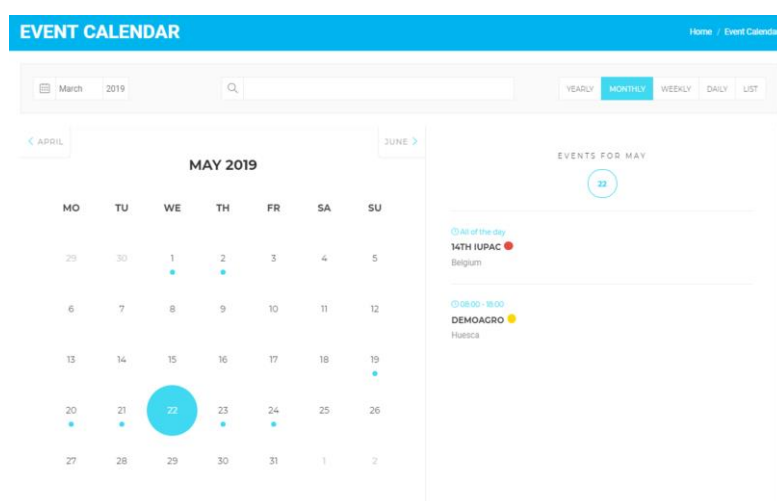


Figure 5: Print-out of the INNOSETA event calendar which is also prominently featured on the homepage. (<http://www.innoseta.eu/event-calendar/>).




### 1.2.2. Get in contact – online interaction

Figure 6: Contact form on the website  
(<http://www.innoseta.eu/contact/>)

The website users can get in touch with us, through the **Contact form** with their questions, suggestions and requests. As is the case for the entire website, users can access the contact form in 8 different languages. A dedicated “Contact” page on the website in addition to the form on the homepage can be used to get in touch with us (Fig. 6).

Three times per year an **INNOSETA newsletter** is launched to inform the stakeholders on the progress of the project and to invite them to project related events. These newsletters are published on the website (<http://www.innoseta.eu/newsletter/>). However these are also sent to the inbox of the stakeholders subscribed to our newsletter. Subscribing to the newsletter is straight-forward by filling in your email address and selecting the language in which you want to receive the newsletter. Besides a dedicated webpage “Newsletter”, subscribing is also possible from the “Aim” and “hub” page on the website (Fig. 3). Through our social media channels we invite the public to subscribe to our newsletter.

The quickest and broadest way to reach our targeted audience and engage them in discussion is over **social media**. Our website promotes the INNOSETA facebook (@InnosetaNetwork), twitter (@InnosetaNetwork), linkedIn (Innoseta - Thematic Network) and instagram (@innoseta\_thematicnetwork) accounts . Innoseta has currently 200 followers on Twitter, 115 on Facebook, 85 on LinkedIn and 71 on Instagram.

### 1.2.3. Networking – Meeting up in person

We want to bring the innovations to the stakeholders in 21 regional and 3 transnational workshops. These are announced on the Hub pages and on the events calendar. Also local SETA events are announced on these pages (Fig. 7). The Hub page is the central location for local stakeholders to be informed on events of interest to them and receive more info on the local INNOSETA partner for their region. This, in the future, will be even more tailored to the stakeholders needs, based on the input received from the regional workshops. The first of these workshops to take place is in Montpellier – France on June 18<sup>th</sup> (as announced on the France hub page).

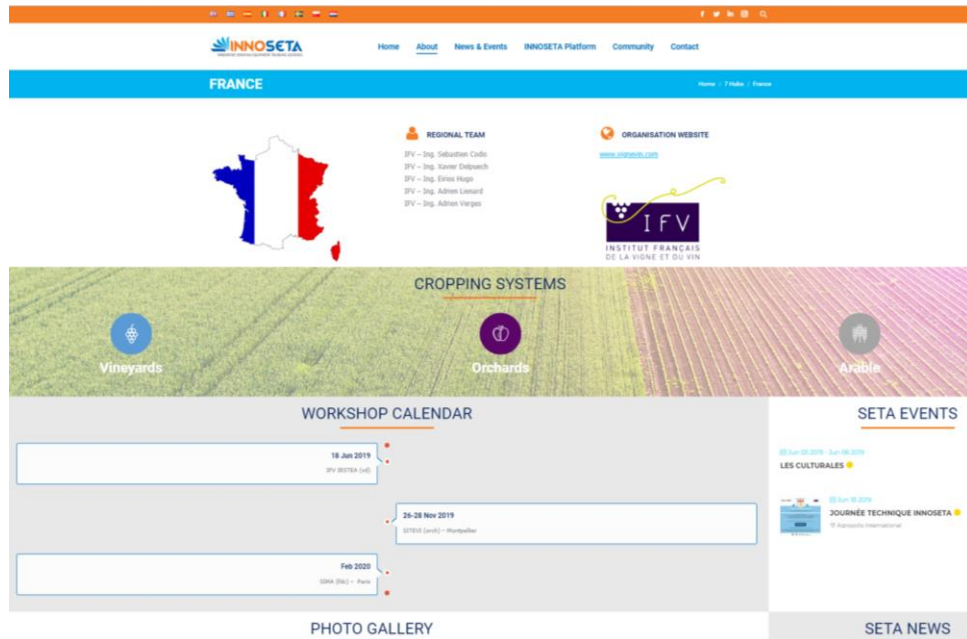


Figure 7: Screenshot of the France Hub page (<http://www.innoseta.eu/7-hubs/france/>)

### 1.3 Maintenance & responsibilities

The reactions on the contact form and the newsletter registration is collected by the INNOSETA dissemination officer Michael Koutsiaras (AUA). When required, he distributes questions from the contact form to relevant INNOSETA partners. He also makes sure that the newsletters are distributed to the subscribed stakeholders. To be adequately informative and up to date, it is crucial that content of INNOSETA's website is dynamic. All INNOSETA partners are responsible to provide news items for on the website and give updates on relevant regional SETA events. The dissemination officer is in contact with each Hub responsible for the translations of these news items and the newsletters in the 7 INNOSETA languages. The project wiki page is used for the exchange of the translations (Fig. 8). Input is requested from the partners on a monthly basis. The dissemination officer constantly updates the website with news items in the different languages.

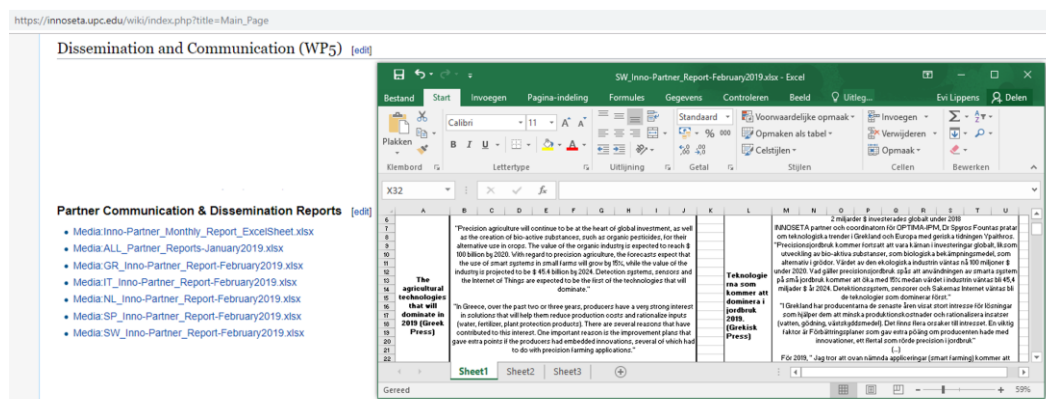


Figure 8: Print-screen of the wiki project page with the excel translation sheet of the news items.

## 2 Platform

At the moment this deliverable is written, the platform has been developed and uploaded under the appropriate domain name <https://platform.innoseta.eu> and can be accessed by all modern browsers (*Firefox, Chrome, Edge*) both on Desktop and Mobile platforms. Due to GDPR issues that have been raised, the content that has been collected from *work package 1* is not yet officially uploaded into the platform and just 5 SETAs in each category (*Projects, Training Material, Articles and Industry Solutions*) are present to serve as proof of concept. For the aforementioned reason, in this deliverable we focus on the functionalities of the platform and by the next version of it (month 36), when this issue will be resolved, we will be able to describe in detail the content of the platform.

Initially, the platform is an **online content-feeder** of research results in SETAs, industry SETA solutions, and available training and advising SETA material as inventoried under the tasks of WP1. The database of identified innovations in spraying equipment, training and advising material becomes, in that way, accessible to a broader community and provides in a visually attractive way a good overview of the specifications and details of each SETA solution. Furthermore, it offers the platform's users the opportunity to find all related material to that particular SETA on one location. On top of that, the information detailed in the profile page of SETA products and training material can be accessed in 8 different languages. This allows farmers from Poland or Spain, for example, to explore different innovative SETA solutions in their own language. The other way around results in an even broader dissemination of local SETAs to the international community. Descriptions and details of a Dutch sprayer or advice material is now also available in English, Spanish and French making it understandable for a large part of the world population. **Translations of the SETA will be online as of autumn 2019.**

With our INNOSETA partners, we've already identified a large set of innovative spraying equipment, training and advising material, however, the 15 of us can't cover everything. With the administrative panel it becomes possible for the stakeholders to put additional SETAs in the platform and **create records**. To accomplish this a user needs to register. **Registered users** are asked to provide their contact details and select a password. This will allow WP4 to have better control over who creates new records on the platform, and potentially ban corrupted accounts. The newly provided SETA information is not appearing in the search page until it is checked and approved by WP4. This happens in order to be able to verify the authenticity of the info and to guarantee that solutions entered fall under the category of being innovative spraying equipment, papers, projects and training material. Registered users can also **update existing records** on the platform. Also here, WP4 will do a quality check before launching these updates. The plan is to make INNOSETA platform a self-sustainable one. In the M36 update of this report we hope to have a better indication as how to achieve this while guaranteeing high quality and relevant contributions.

## 2.1 Home/Landing Page

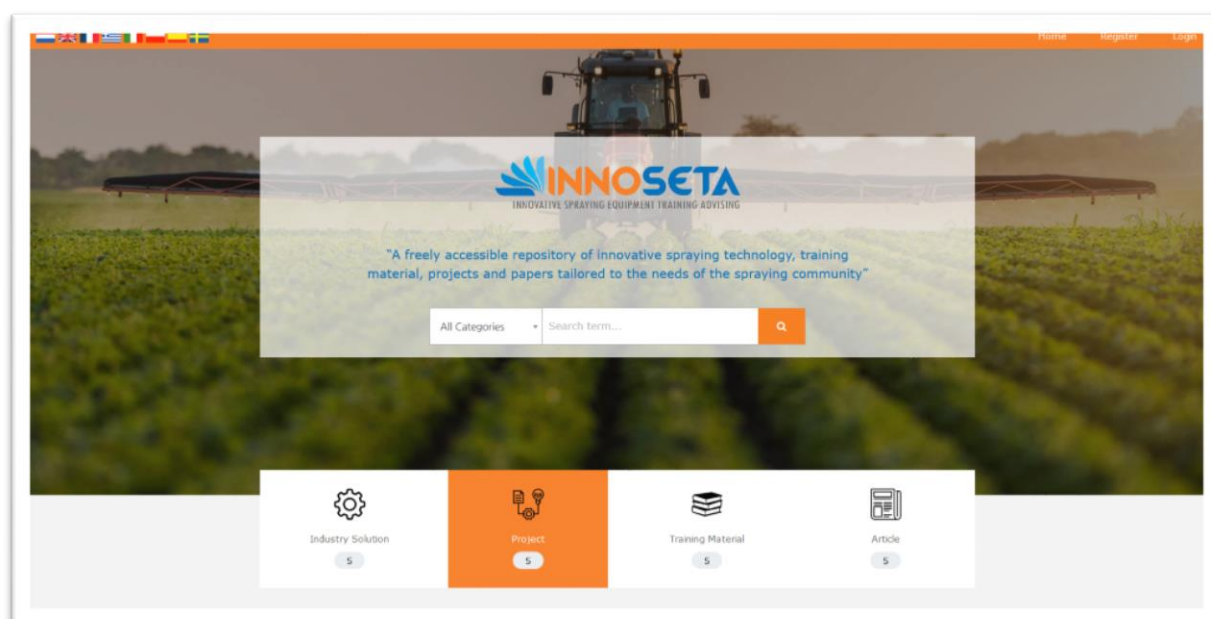


Figure 9: INNOSETA Platform

By navigating to the platforms location, the visitors are presented the **landing page**, from which they can access most of its functionalities. Specifically, the landing page consists of the following functionalities:

### Change Language

On the top area of the screen, the visitors can access a list of flags with the available translations of the platform. Specifically, the platform in its final version will be provided in the same languages as the website. In order to make sure that visitors will be presented with the information even in case a translation is missing, the platform has been configured to have the English language as “fallback locale”, which means that if a translation is missing the English text will be shown.



Figure 10: Change locale module

### Register/Login

Additionally, on the top area of the screen there is a list of menu items that help the user navigate to the home page of the platform and to the login and registration section as well. By clicking on the register the user is scrolled on the lower area of the page where he/she is prompted with the form as shown on Figure 11. The fields on the form are all mandatory and error messages are presented to the screen to help the user fill it. If the user is already registered he can access the login module

(Figure 12) and access the system with his/hers credentials. By logging into the system, users can gain access to the INNOSETA Users functionalities.

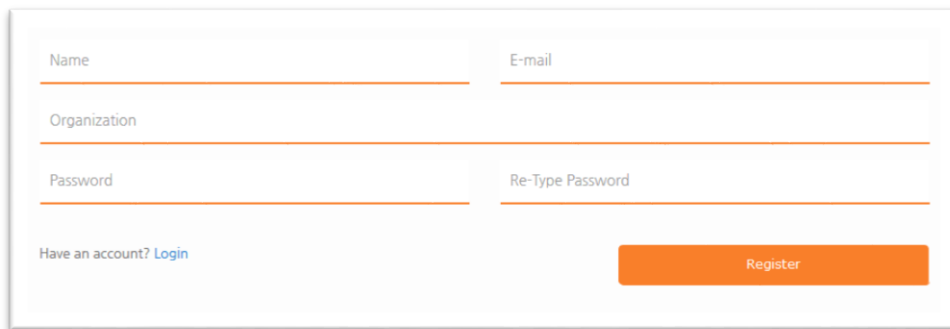
The registration form is a white rectangular box with a thin grey border. It contains five input fields: 'Name', 'E-mail', 'Organization', 'Password', and 'Re-Type Password'. The 'Name' and 'E-mail' fields are in the top row, 'Organization' is in the second row, and 'Password' and 'Re-Type Password' are in the third row. Below the 'Password' field, there is a link 'Have an account? Login' in blue text. To the right of this link is an orange button with the text 'Register' in white.

Figure 11: INNOSETA Platform registration form

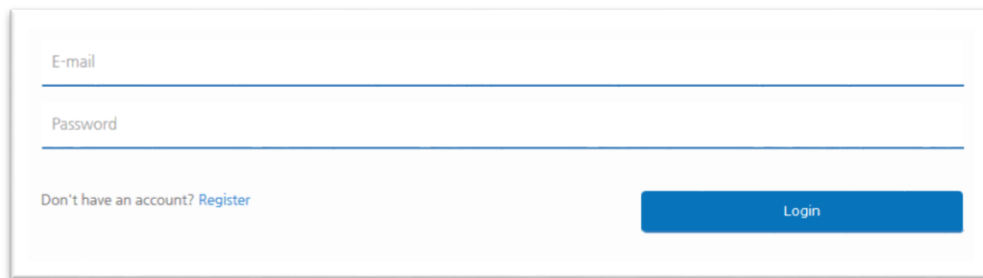
The login form is a white rectangular box with a thin grey border. It contains two input fields: 'E-mail' and 'Password'. Below the 'Password' field, there is a link 'Don't have an account? Register' in blue text. To the right of this link is a blue button with the text 'Login' in white.

Figure 12: INNOSETA Platform login form

## Search

Visitors can search the database for SETAs using the search form in the landing page. Specifically, they can place their desired search term in the equivalent area and optionally select the SETA category it belongs to. By clicking on the button with the magnifying glass, the users are redirected to the results page with the results.

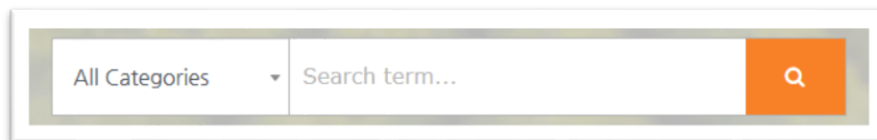
The search component is a white rectangular box with a thin grey border. It contains a dropdown menu on the left with the text 'All Categories' and a downward arrow. To the right of the dropdown is a text input field with the placeholder text 'Search term...'. To the right of the input field is an orange button with a white magnifying glass icon.

Figure 13: Search component

## Recent SETAs

A list of the latest SETA records that have been published in the platform can be accessed in this page as show in Figure 14. By clicking on a SETA, the user is redirected to the **SETA Details Page** where it is presented in detail.

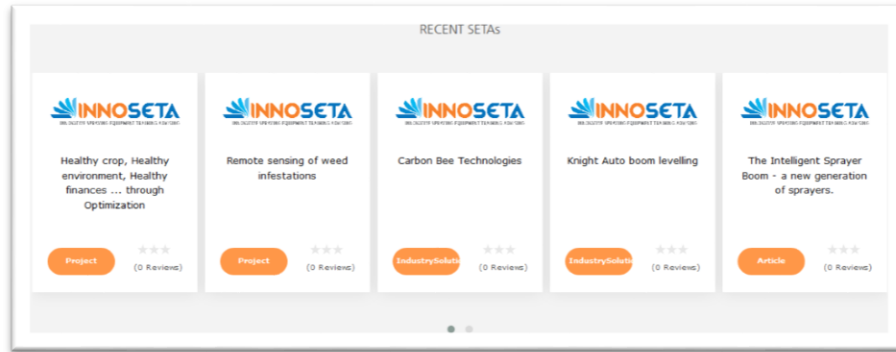


Figure 14: Landing page recent SETAs

## Basic statistics

Finally, the visitors may also preview the amount of records for each category in the platform as shown in Figure 15. By clicking on a category, the platform redirects the user in the results page where all of the SETAs that belong to the specific category are presented.

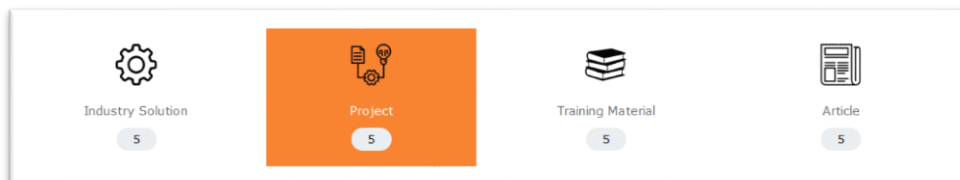


Figure 15: SETAs statistics

## 2.2 Search Results Page

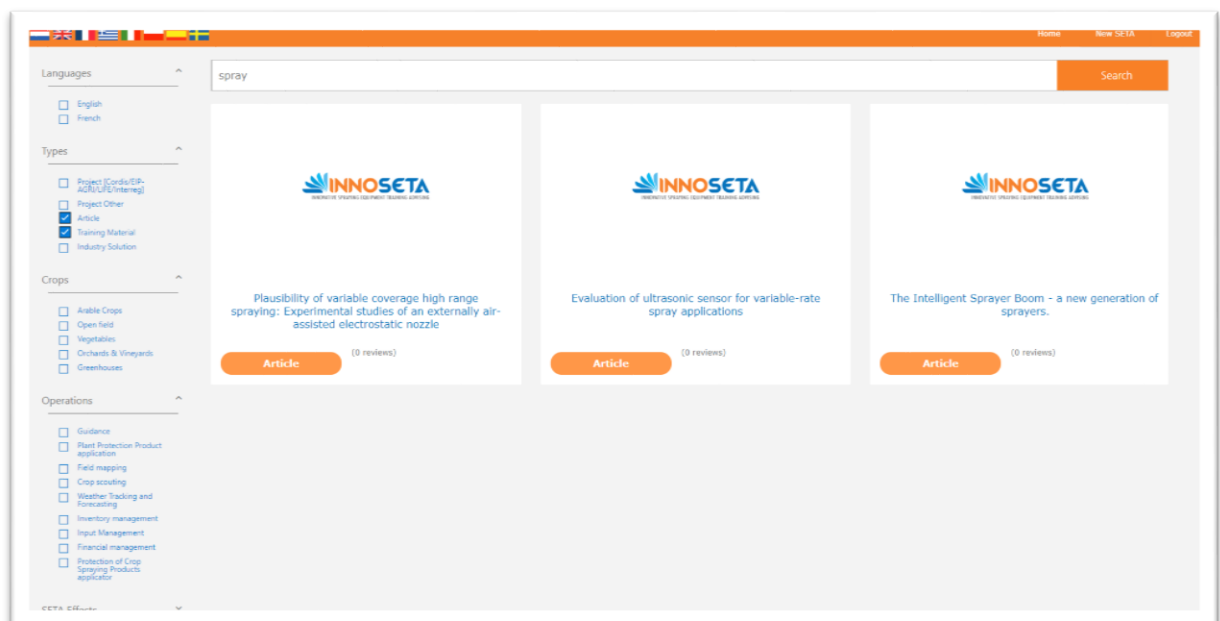


Figure 16: INNOSETA Search Page

By using the search component on the landing page, or by selecting a specific category from the statistics the user is redirected to this page where he can access a list of the SETAs that fulfil the criteria.

When accessing the **Search Results Page**, he/she is presented with a search bar and a variety of filters to parametrize and thus optimize his/her searches. Provided the pre-mentioned functionality, the user will be able to form queries, search and find the desired information with only a few clicks

Filtering can be done on the following aspects of a SETA solution:

- Language
- Type
- Crops
- Operations
- SETA Effects
- Sprayers
- Keywords

The results every query returns is a set of SETA preview cards showing the main image of the solution, its title, its category and rating (review). By selecting a card, the platform navigates the user to the **SETA Details Page**.

## 2.3 SETA Details Page

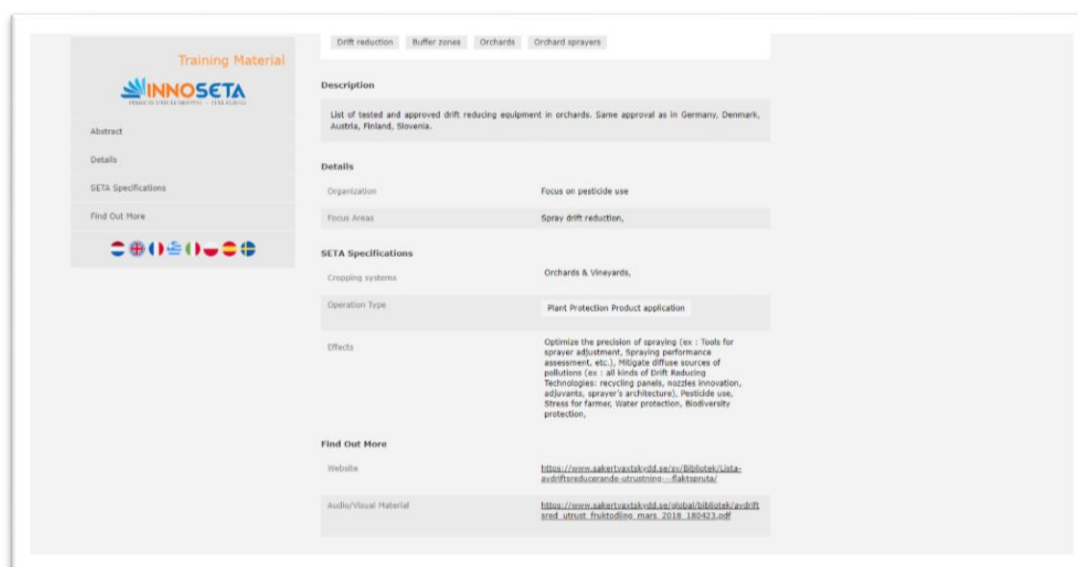


Figure 17: SETA Details Page

By selecting a card on the search results page, the platform navigates the user to the **SETA Details Page**. Through this page, the visitors can preview all of the information that exist in the INNOSETA Platform for the specific seta. The content related to the SETA is structured under four (4) headings:



### Abstract/Description with keywords

In the description section, a clear, precise and concise explanation on the SETA is provided. Together with the keywords, this should provide a clear view to the platform user what the SETA is about.

### SETA specifications

In the SETA specifications further info is provided on the cropping system in which this SETA can be used, the operation in which this SETA can be applied to, the effects this SETA has and when applicable, onto which crop sprayers this SETA can be applied. For SETA products it is also indicated which type of technology the innovation refers to (i.e. IoT, software, component, etc.) and the TRL level. Under the header details, more information is presented on either the manufacturer for SETA products, project coordinator for the projects, or authors for the SETA papers or SETA training material providers.

### Find out more

Find out more provides links to relevant external information on the SETA. When available, you get access to video presentations, brochures, websites, product sheets, apps, e-courses, demonstrations for potential users, etc. In the header on top images of the SETA are depicted, together with the most important information such as SETA name or title, cropping system, links to additional information and the rating score of the SETA. Specifically, stakeholders are asked to rate the SETAs to help other users get an indication as to the acceptance of the SETA by the community. A short questionnaire is available for each SETA category. The scores of these individual questionnaires will be displayed in a 5-star ranking system. It will also be clear what the total number of received reviews is for each SETA. To prevent misuse of this tool by companies/individuals who want to favour a certain SETA or discredit another, only one filled in questionnaire per unique IP address will be accepted.

ROBOT FLEETS FOR HIGHLY EFFECTIVE AGRICULTURE  
AND FORESTRY MANAGEMENT Review

Rate per question ✓ ✗ N/A

Is this project's aim useful in your work? ★★★★★ ○ ○ ○

Is this project useful for the farming practice? ★★★★★ ○ ○ ○

Leave a review

Send Close

Figure 18: Questionnaire example of a project

The star-ranking system will be prominently featured in the SETA’s profile page main header. There, not only will the user be able to rate the SETA but he will also be able to write his/her review in an open field and submit his/her review of the SETA. An example of how this rating will look like, once reviews come in the platform is depicted in Fig. 19.

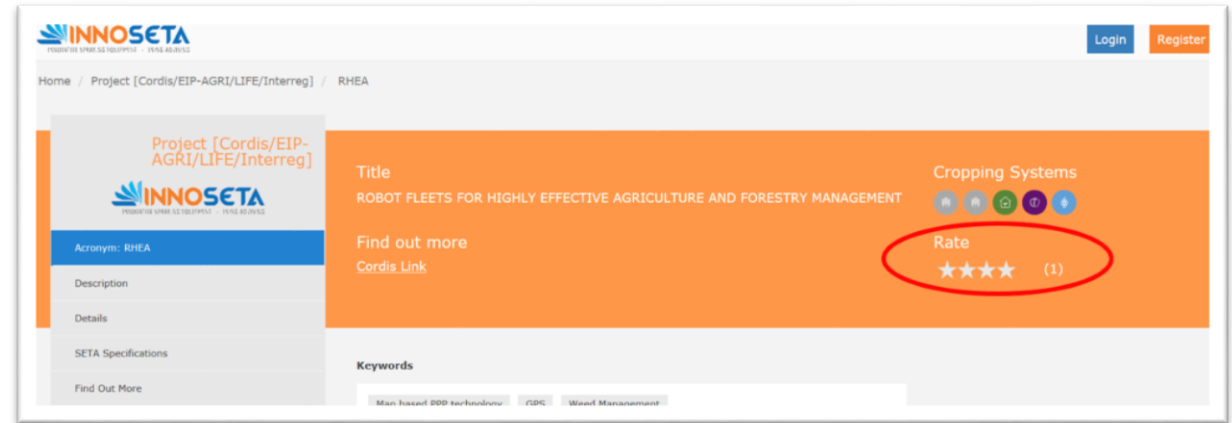


Figure 19: The star-rating system of the INNOSETA platform. This project received in this example 4 out of a total of 5 stars and is based on (1) review.

## 2.4 NEW SETA functionality

When a visitor logs into the INNOSETA Platform, he/she gains access to another menu item on the top area of the landing page “New Seta”. By clicking on it, a submenu emerges from which the users can navigate to the desired page to import their SETA.

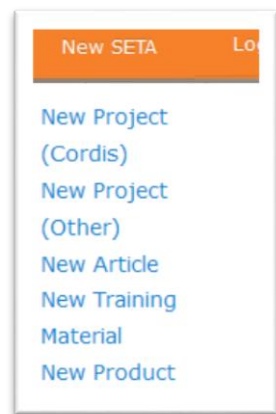


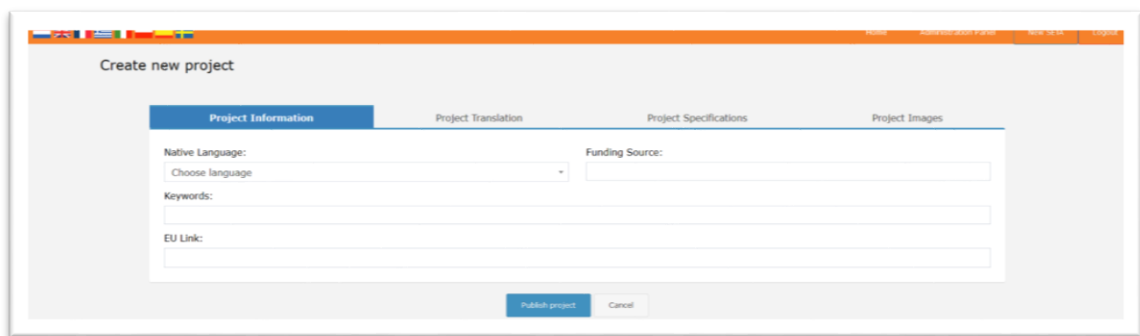
Figure 20: New Seta Menu

### **CAUTION**

When a user creates a new SETA it is inserted in the database but in PENDING REVIEW mode. This means that the SETA will **NOT** be visible to other users until the administrator approves it.

#### **2.4.1 New Project**

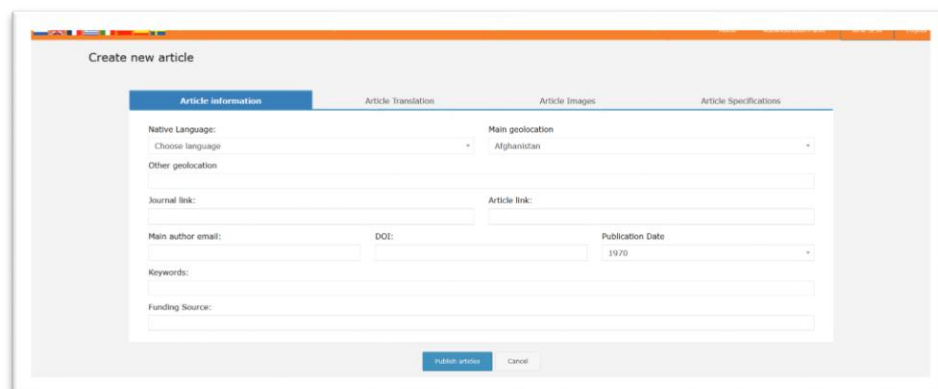
Authenticated users can insert their own projects in the database through this functionality. Whether it is a “Cordis” or “other” project, the equivalent form appears like in figure 21. This form is grouped in tabs to assist the users on their data import process. By clicking the save button the user is redirected to the details page for their record in order to preview the result. When the user is the owner of a SETA, in the details page an edit button appears so he/she can alter its information if necessary.



*Figure 21: Create new project form*

#### **2.4.2 New Article**

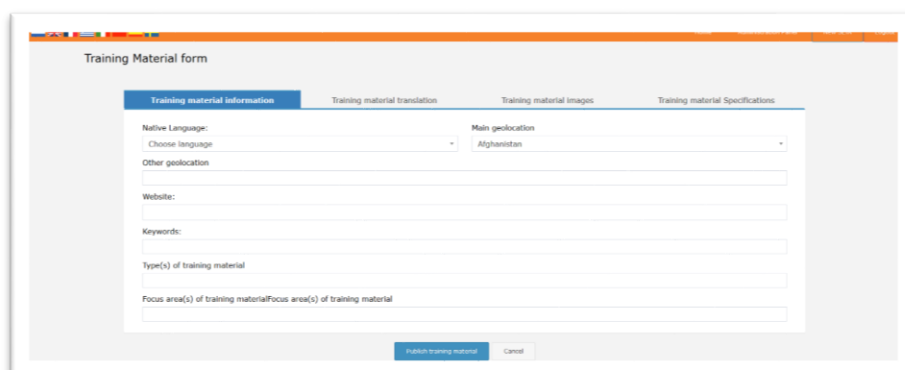
The equivalent form for the user to create his own Article entry.



*Figure 22: New Article form*

### 2.4.3 New Training Material

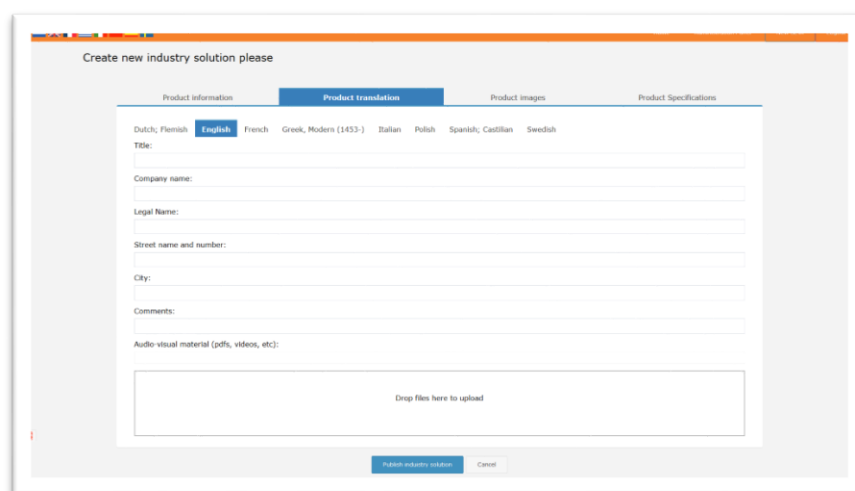
The equivalent form for the user to create his own Training Material entry.



*Figure 23: New Training Material form*

### 2.4.4 New Product

The equivalent form for the user to create his own Industry Solution entry.



*Figure 24: New Industry Solution form*

## 2.5 Maintenance & Responsibilities

What concerns the INNOSETA platform as a whole, every partner will have its own responsibilities in order to safeguard the wellbeing of the platform and the content.

The hub leaders are responsible to provide translations of the SETA products and training material in their native language. Furthermore, newly created records or updates for records submitted in one

of the 7 hub languages (Greek, Spanish, Italian, French, Swedish, Polish, Dutch) will go for verification to the designated hub leader. English contributions will be verified by WP4 in consultation with WP1.

As indicated in section 2.2 control checks are in place to verify information uploaded by individuals outside the project consortium. We want to prevent misuse of the platform.

AGENSO will be responsible of the technical aspects of the platform. Such is the configuration of the server and the maintenance of the server. All of the necessary updates on the operating system of the server and on the platform itself will be performed to ensure that all of the security protocols are up to date. To maintain data integrity, automated periodical backups will be performed to ensure that no data will be lost or damaged in case of emergency.

## 2.6 Technical details

The INNOSETA Platform is developed as a Progressive Web Application; thus, the only requirement is the existence of an Apache HTTP Server installation on the server. It is accessible via all modern browsers as presented in the table below:

Browsers	Version
Chrome	21.0
Internet Explorer / Edge	9.0
Firefox	3.5
Safari	4.0
Opera	9.0

The platform is responsive, providing the visitors with the maximum user experience both on mobile and desktop browsers. Best practices were followed to speed up the loading process of the application, with the minimum possible use of resources by every system.

