

Addressing the current and Future skill needs for sustainability, digitalization and the bio-Economy in agriculture: European skills agenda and Strategy

| D1.2 - Repository of previous projects, results and best practices | |
|--|--|
| Document description | This repository will gather relevant project outputs, best practices, policies, initiatives. They will be classified into a database, allowing customised research. It will contain a summary about the findings |
| Work package title | Skills needs identification |
| Task title | State of the Art |
| Status* | F |
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*F: final; D: draft; RD: revised draft



Table of content

| | | |
|----------|---|-----------|
| 1 | INTRODUCTION | 3 |
| 1.1 | HOW TO CONTRIBUTE..... | 3 |
| 1.2 | STRUCTURE OF THE DATABASES..... | 3 |
| 1.3 | ORGANISATIONS/STAKEHOLDERS DATABASE | 4 |
| 1.4 | CURRICULA-COURSES/BEST PRACTICES/PROJECTS DATABASE | 6 |
| 1.5 | DATABASE OF POLICY AND ADVOCACY STAKEHOLDERS | 8 |
| 2 | STRUCTURE OF THE DATABASE IN THE MANAGEMENT PORTAL | 11 |
| 2.1 | ORGANISATION/STAKEHOLDER | 11 |
| 2.2 | CURRICULA/COURSES | 13 |
| 2.3 | BEST PRACTICES..... | 15 |
| 2.4 | PROJECT..... | 16 |
| 2.5 | POLICY AND ADVOCACY STAKEHOLDERS | 18 |
| 3 | FUTURE USE OF THE DATABASE | 20 |

1 Introduction

To collect the information about the state of the art (task 1.1) UNITO, in conjunction with EfVET and LLL-P, created online databases by means of the open source platform Drupal, storing all relevant information related to their domain, in a form of curricula available, best practices and projects, included EU funded projects, regional pilot projects and best practices carried in the sector as well as concrete examples of policies and initiatives at the national levels. The databases were created in the FIELDS project management platform and they will be available through the project's public website. All partners contribute to this task by providing detailed insights from their specialisation angle. They will be kept updated during the project lifetime and maintained afterwards, allowing to aggregate and continuously be updated with sectoral knowledge and intelligence at European level.

1.1 How to contribute

Partners will cooperate at national level to make advantage of synergies in their research and they will contribute to this task by providing detailed insights from their specialization angle:

1. Agricultural sustainability, management of natural resources and climate action: UNITO, CONFAGRI, ICOS, ISEKI, FIAB, SCOOP, UHOH, CEPI, FDE, ACTIA, ANIA, EFFAT, CERTH, EFB, PlantETP, AP, LVA, SEVT, FIAB, UCLM, PA, GZS-ZKZP, AC3A, BIC, EfVET, FENACORE
2. Digital technologies, digitalization, big data and artificial intelligence: UHOH, CERTH, EFB, PA, UCLM, SCOOP, UNITO
3. Bio-economy, circular economy and bio-based products: ISEKI, FIAB, LVA, UHOH, CEPI, AP, CERTH, EFB, ACTIA, SEVT, UCLM, ICOS, SCOOP, AC3A, CONFAGRI, BIC, EfVET, PlantETP

All the involved partners created an account on the management portal (<http://www.erasmus-fields.eu/management>) and they are continuously uploading relevant information related to their domain. The working method is desk and online research, networking, etc.

1.2 Structure of the databases

The structure is divided in 5 main fields:

1. **Organisations/Stakeholders**
2. Curricula/courses
3. Best practices

4. Projects
5. Policy and Advocacy

UNITO prepared the structure in an excel table, shared and discussed among the involved partners and available in the shared Google Drive folder:

https://drive.google.com/file/d/12gyID3_HFkKpRtrpdZxP9iMOvZd_LSv3/view?usp=sharing

In the following Figure 1 the databases page as appear in the management portal.

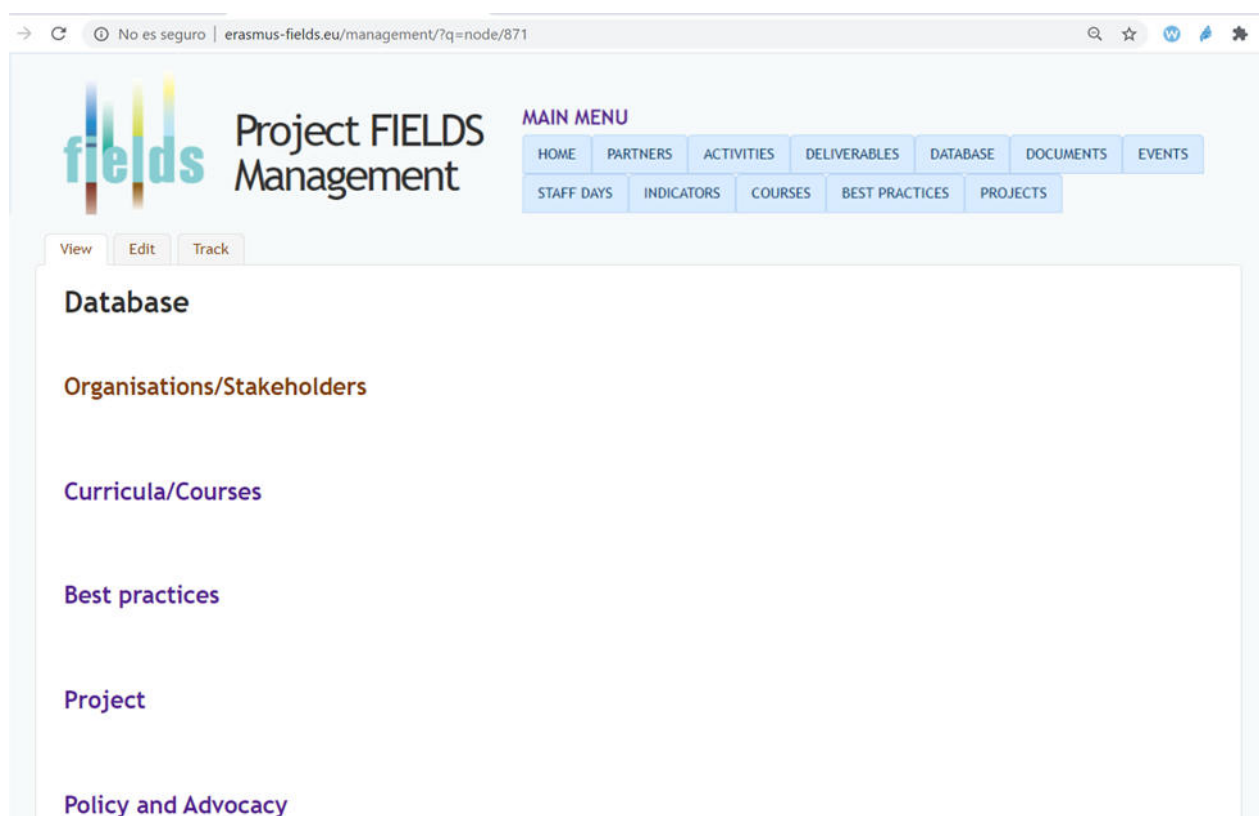


Figure 1. Databases page in the project management portal (<http://www.erasmus-fields.eu/management/?q=node/871>)

The databases contents will be visible and linked to the public FIELDS website for all the interested ones.

1.3 Organisations/Stakeholders database

The Organisations/Stakeholders database is to be considered as the main database to be fulfilled before insert records in the others databases. Indeed, the latter are linked to the first one as an “Entity reference”. In this database are also included the VET Colleges, VET providers, HEI, trainers, etc.

How to contribute: using the online module (<http://www.erasmus-fields.eu/management/?q=node/add/organisation>), filling it with the information available on the different websites consulted or from the direct contact partner had with relevant colleges/institutions.

Structure of database: there are **8** areas to be mandatorily filled - as follows:

1. **Partner responsible:** the partner who upload the information, this field will not be visible on the webpage;
2. **Organisation Name:** the institution who manage, lead, organise or prepare the curricula/course/project/best practice;
3. **Organisation Short Name:** The acronym of the organisation name;
1. **Stakeholder type:** identify what type of organisation/stakeholder: VET school, College, Research institute/centre, Mobility Agency, Other (to be specified)
Insert the first 3 letters to show the available organisation and select one.
4. **Organisation description:** brief description of the Organisation (maximum 500 characters);
5. **Address:** Insert the address of the organisation (e. g. street, zip code and city);
6. **Country:** Indicate the country of the organisation;
7. **Website:** provide a link to the main website page of Organisation or the curricula/course/project/best practice;

The others 3 areas are not mandatory but provide useful information and an added value, such as:

8. **Contact person:** Insert the name and surname (or even the role) of the organisation contact person;
9. **Email:** insert the email of the contact person or of the Organisation;
10. **Comments:** Insert relevant information about the organisation.

1.4 Curricula-courses/Best practices/Projects database

This database registers and indexes the VET providers with their activities, certification, curricula, interest for collaboration, search for partners, language and place with reference of agriculture, forest and related sectors.

Working methods: desk research mostly, direct contact with VET colleges and other relevant educational institutions.

Criteria for selection: The desk research should focus on the following educational institutions:

- Professional School (secondary education, EQF 3-4)
- Higher Vet Colleges (master & bachelors, EQF 5-8)
- Other training and education provider (including independent trainers)

How to contribute: using the online module (links below) filling it with the information available on the different websites consulted or from the direct contact partner had with relevant colleges/institutions.

Link to be used to add contents:

1. Available curricula/courses: <http://www.erasmus-fields.eu/management/?q=node/add/curricula-courses>
2. Best practices: <http://www.erasmus-fields.eu/management/?q=node/add/best-practices>
3. Projects: <http://www.erasmus-fields.eu/management/?q=node/add/projects>

Structure of the excel file: there are **8** common areas to be mandatory mapped and filled - as follows:

1. **Title:** Title of the curricula-course/best practices/project as indicated by the organisation;
2. **Partner: providing the information:** The partner who upload the information, this field will not be visible on the webpage;

3. **Name VET College/ Organisation:** <Autocomplete field> Insert the first 3 letters to autocomplete the field;
4. **Description:** Brief description of the curricula-course/best practices/project max 500 characters;
5. **Country:** Indicate the country of the curricula-course/best practices/project, select among the list;
6. **Keywords:** single or multi-selection in the existing menu list;
7. **Website:** Provide a link to the main website page of the curricula-course/best practice/project;
8. **Data:** provide the data of the last visit to the main page of the Organisation/curricula/course/project/best practice.

Other areas are specific for each database

For Curricula/courses database only

1. **Language** in which the course is provided: for each training course identify the language in which the training is delivered;
2. **Course type:** Type educational/training. Provide the type of curricula/course (Bachelor, M.Sc., PhD, training etc.), select among the list, single or multi-selection;
3. **Professional Profile:** for each training course, identify the professional profile after completing the training. select among the list;
4. **Online:** Indicate Yes if the course is available online;
5. **Type of training:** For each one of the training listed on point above identify if it is initial or continuous training. An "initial training" is a training required prior to beginning a specific work, to start a specific career; a "continuous training" is the ongoing process of developing, maintaining and documenting your professional skills, through courses or training;
6. **Length:** for each course indicate its length in hours, days, weeks or years. **NOT MANDATORY**
7. **EQF level:** for each one of the courses identify the correspondent EQF level. **NOT MANDATORY**

8. **Credits:** number of credits obtained in each course. Alternatively, if this information is not available, please indicate the length of the course in hours. **NOT MANDATORY**
9. **Certification:** indicate what type of certification is awarded to trainees (if any);
10. **Relevance:** Insert A for high relevance, B for medium relevance, C for low relevance;
11. **Quality mechanisms in place:** quality mechanisms in place in line with EQAVET framework.
NOT MANDATORY

For Best practice database only

12. **Document:** Upload any relevant document such as leaflet, brochure, presentation, etc, if any.

For Project database only

13. **Project program:** Indicate what type of the project is (e.g. National, European, Horizon2020, Erasmus+, etc.), maximum 150 characters;
14. **Brochure:** Upload any relevant document such as leaflet, brochure, presentation, etc, if any.

1.5 Database of Policy and Advocacy stakeholders

LLL-P gathers relevant policy-makers and decision-makers contacts at EU level (European Parliament, DG EAC, DG EMPL, DG AGRI, CHAFEA, EACEA, etc.) involved in the main fields of the project, to support the advocacy actions and initiative of the consortium. Other partner organisations contributed with their contacts (at EU, national, regional and eventually at local level), to enrich the database and to ensure a wider advocacy impact.

Working method: desk research, networking.

Criteria for selection: the policy/decision maker has to be someone that has been previously in contact with the partner organisation; the policy/decision maker has to be involved in the specific fields of the project.

Structure of the database: It is divided in 3 main fields:

- Members of the European Parliament and Members of Parliament (MEPs and MPs)
- Director General (DGs) and Ministries, including regional governments
- Permanent Representations at EU

How to contribute: using the online module (<http://www.erasmus-fields.eu/management/?q=node/add/policy-and-advocacy>), filling it with the relevant information. Introduce the information in the proper tab of the Excel, according to the kind of stakeholders. It is not mandatory to fill all the cells, but try to ensure the minimum relevant information.

Structure of the module: there are 14 areas to be mapped and filled - as follows:

Please note that some information may not be easily accessible via desk research. In this sense we propose to consider points 1-4; 8-9 as mandatory information and points 5-7; 10-14 as optional.

1. **Partner responsible:** the partner who upload the information, this field will not be visible on the webpage;
2. **Name and Surname:** The name and surname of the stakeholder contact person;
3. **Country:** Indicate the country of the stakeholder, select among the list
4. **Relevance:** Select among the list the geographical relevance of the stakeholder
5. **Stakeholder type:** identify what type of organisation/stakeholder: VET school, College, Research institute/centre, Mobility Agency, Other (to be specified in the “Comment” box). Insert the first 3 letters to show the available organisation and select one;
6. **EU Level:** Select among the list (e.g. Member of European Parliament, Regional governments, Directorates-General, etc.);
7. **Political group:** Please indicate eventually the political party of the stakeholder contact person, if relevant (e.g. for MP and MEP);
8. **Topics:** Single or multi selection of the topics the stakeholder is working on;
9. **Email:** Insert the email of the stakeholder contact person;
10. **Function:** e.g. Director, Head of Unit, Policy Officer, Speaker, Spoken-person, Rapporteur, etc;

-
11. **Participation in initiatives:** Please indicate if the stakeholder has been already involved in any initiative run by partner organisations (e.g., a MEP involved in a previous LLLP activity);
 12. **Intergroups/Committees:** Some MPs and MEPs are involved in intergroups/committees (“Commission parlementaire” in French), please indicate if the stakeholder contact person is involved in one or more of them;
 13. **Comments:** Any other relevant information you may provide regarding the stakeholder;
 14. **GDPR:** Check the box if the information relies on GDPR rules. For more information visit the European regulation page <https://gdpr.eu>.

2 Structure of the database in the management portal

The following sections and tables describing the structure as created in the management portal, listing the labels, the machine names, the field types and the widgets used for each database. Figures after each table (2-6) shown the databases as appear in the portal. The weblinks are also provided.

2.1 Organisation/Stakeholder

| Label | Machine name | Field type | Widget |
|-------------------------------------|-------------------------------|--------------------------------|---|
| entity_reference_organisation_title | title | | Node module element |
| Partner responsible | field_org_partner_responsible | Term reference | Select list |
| Organisation Name | field_org_organisation_name | Text | Text field |
| Organisation short name | field_org_short_name | Text | Text field |
| Organisation description | field_org_description | Long text | Text area (multiple rows) |
| Stakeholder type | field_org_organisation_type | Term reference | Select list |
| Address | field_org_address | Text | Text field |
| Country | field_org_country | Term reference | Select list |

| Label | Machine name | Field type | Widget |
|----------------|--------------------------|---------------------------|---|
| Website | field_org_website | Link | Link |
| Contact person | field_org_contact_person | Text | Text field |
| Email | field_org_email | Email | Text field |
| Comments | field_org_comments | Long text | Text area (multiple rows) |

Organisation

Country: Stakeholder type:

| Title | Name | Type | Description | Address | Country | Website | Contact person | Email | Comments |
|--------|--|---------------------------|---|---|---------|----------------------|----------------|-------|----------|
| BNIC | Bureau national interprofessionnel du cognac | Industry representative | "The Bureau National Interprofessionnel du Cognac" (BNIC) is a... | 23 allées Bernard-Guionnet B.P. 90018 16101 Cognac | France | Link | | | |
| AERIAL | AERIAL | Research institute/centre | Founded in 1985, Aerial is an internationally well-known structure that... | Parc d'innovation 250 rue Laurent-Fries C.S. 40443 67412 Illkirch | France | Link | | | |
| Adria | Association pour le développement de la recherche appliquée aux industries agricoles et alimentaires | Research institute/centre | ADRIA has been recognised as an Agro Industry Technical Institute (ITAL) since... | Creac'h Gwen 29196 Quimper | France | Link | | | |

Figure 2: Organisation/Stakeholder database page in the project management portal: <http://www.erasmus-fields.eu/management/?q=organisation>

2.2 Curricula/courses

| Label | Machine name | Field type | Widget |
|-----------------------------|----------------------------------|----------------------------------|---|
| Title | title | Node module element | |
| Partner responsible | field_curricula_partner_resp | Term reference | Select list |
| Organisation | field_curricula_organisation | Entity Reference | Autocomplete |
| Description | field_curricula_description | Long text | Text area (multiple rows) |
| Country | field_curricula_country | Term reference | Select list |
| Language | field_curricula_language | Term reference | Select list |
| Keywords | field_curricula_keywords | Term reference | Check boxes/radio buttons |
| Course type | field_curricula_course_type | Term reference | Select list |
| Professional Profile/Skills | field_curricula_prof_profile | Term reference | Select list |
| Online | field_curricula_online | List (text) | Select list |
| Type of training | field_curricula_type_of_training | List (float) | Select list |

| Label | Machine name | Field type | Widget |
|---------------|-------------------------------|------------------------------|---------------------------------|
| Length | field_curricula_hours | Integer | Text field |
| EQF | field_curricula_eqf | Integer | Text field |
| Credits | field_curricula_credits | Integer | Text field |
| Certification | field_curricula_certification | Text | Text field |
| URL | field_curricula_url | Link | Link |
| Data | field_curricula_data | Date | Pop-up calendar |
| Relevance | field_curricula_relevance | List (float) | Select list |

Curricula/Courses database

Country: Stakeholder type: Keywords:

| Title | Organisation | Description | Country | Language | Keywords | Course type | Professional Profile/Skills | Online | Type of training | Lenght | EQF | Cr |
|-------------|--------------------------------------|---|----------------|----------|-----------------------------------|-----------------|-----------------------------|--------|------------------|--------|-----|----|
| Agriculture | Montbellew Agricultural College | 1 year training, equivalent to EQF level 4 This course has been developed to meet the training... | Ireland | English | Business as usual, Soft-skill | Training course | Agricultural worker | No | Initial | 1 year | 4 | |
| Agriculture | Westport College of Futher Education | 1 years training equivalent to EQF level 5, with the main purpose of equipping students with the... | Ireland | English | Business as usual, Sustainability | Training course | Agricultural worker | No | Initial | 1 year | 5 | |
| Agriculture | Hadlow College | 1 year training equivalent to EQF level 2, Students are able to access a range of additional... | United Kingdom | English | Business as usual | Training course | Agricultural worker | No | Initial | 1 year | 2 | |

Figure 3: Curricula/Courses database page in the project management portal: <http://www.erasmus-fields.eu/management/?q=curricula-courses-database>

2.3 Best practices

| Label | Machine name | Field type | Widget |
|---------------------|---------------------------------|----------------------------------|---|
| Partner responsible | field_bestp_partner_responsible | Term reference | Select list |
| Title | title | Node module element | |
| Organisation | field_bestp_organisation | Entity Reference | Autocomplete |
| Description | field_bestp_description | Long text | Text area (multiple rows) |
| Country | field_bestp_country | Term reference | Select list |
| Keywords | field_bestp_keywords | Term reference | Check boxes / radio buttons |
| Program | field_bestp_program | Term reference | Select list |
| URL | field_bestp_url | Link | Link |
| Document | field_bestp_document | File | File |
| Data | field_bestp_data | Date | Pop-up calendar |

Best practices database

Country: Stakeholder type: Keywords:

| Title | Organisation | Description | Country | Keywords | Document | Website | Data |
|------------------------|--------------|--|---------|---|---|---------|------------|
| Cedefop Discovery Tool | CEDEFOP | The Discovery Tool of Cedefop browses a wealth of resources, scientific information and open access journals on VET issues, such as VET systems, vocational and training policies, mobility of trainers, | Greece | Bioeconomy, Business as usual, Digitalization, Entrepreneurship, Soft-skill, Sustainability | | Link | 26/05/2020 |
| BEMP | EMAS | Best Environmental Management Practices. Organisations of all sizes and kinds have a large scope for improving their environmental performance. | EU | Bioeconomy, Sustainability | jrc-infographic-bemp-agriculture-emas.pdf | Link | 27/05/2020 |

Figure 4: Best practices database page in the project management portal:
<http://www.erasmus-fields.eu/management/?q=best-practices-database>

2.4 Project

| Label | Machine name | Field type | Widget |
|---------------------|--------------------------------|----------------------------------|---|
| Title | title | Node module element | |
| Partner responsible | field_proj_partner_responsible | Term reference | Select list |
| Organisation | field_proj_organisation | Entity Reference | Autocomplete |
| Description | field_proj_description | Long text | Text area (multiple rows) |
| Country | field_proj_country | Term reference | Select list |
| Keywords | field_proj_keywords | Term reference | Check boxes / radio buttons |

| Label | Machine name | Field type | Widget |
|-----------------|--------------------------------|----------------------|---------------------------------|
| Project program | field_proj_eu_national_program | Text | Text field |
| Brochure | field_proj_brochure | File | File |
| Website | field_proj_url | Link | Link |
| Data | field_proj_data | Date | Pop-up calendar |

Project database

Organisation type: Country: Keywords:

| Title | Organisation | Description | Keywords | Country | EU_National_program | Brochure | Website | Data |
|------------------|-----------------------|--|---|---------|---------------------------|--|----------------------|------------|
| SUWANU | UNITO | Sustainable Water treatment and Nutrient reuse options. Objective Agricultural practices put the biggest pressure on fresh water resources for... | Sustainability | Spain | Funded under: FP7-REGIONS | Suwanu_result-sustainable-water-treatment_en.pdf | Link | 28/05/2020 |
| ASKFOOD | Europea International | ASKFOOD aims to create a permanent knowledge alliance between businesses and Higher Education Institutions in the food-related sectors.... | Bioeconomy, Business as usual, Digitalization, Entrepreneurship, Soft-skill, Sustainability | EU | Erasmus+ | | Link | 27/05/2020 |
| Focus on farmers | UOR | Agricultural technologies and innovations offer significant opportunities to improve the efficiency and effectiveness of farm businesses, through... | Digitalization, Entrepreneurship | EU | EIT Food | | Link | 27/05/2020 |

Figure 5: Project database page in the project management portal:
<http://www.erasmus-fields.eu/management/?q=projects-database>

2.5 Policy and advocacy stakeholders

| Label | Machine name | Field type | Widget |
|------------------------------|---------------------------------|--------------------------------|---|
| Title | title | Node module element | |
| Partner responsible | field_policy_partner_resp | Term reference | Select list |
| Name and surname | field_policy_name_surname | Text | Text field |
| Country | field_policy_country | Term reference | Select list |
| Relevance | field_policy_relevance | Term reference | Select list |
| Stakeholder type | field_policy_stakeholder_type | Term reference | Select list |
| EU level | field_policy_eu_level | Term reference | Select list |
| Political group | field_policy_political_group | Text | Text field |
| Topics | field_policy_topics | Term reference | Check boxes / radio buttons |
| Email | field_policy_email | Email | Text field |
| Function | field_policy_function | Text | Text field |
| Participation in initiatives | field_policy_particip_initiativ | Text | Text field |

| Label | Machine name | Field type | Widget |
|------------------------|-----------------------------|-------------------------|--|
| Intergroups/Committees | field_policy_intergr_commit | Text | Text field |
| Comments | field_policy_comments | Text | Text field |
| GDPR | field_policy_gdpr | Boolean | Single on/off checkbox |

Policy and advocacy

| Name and Surname | Country | Stakeholder type | EU level | Political group | Relevance | Topics | Email | Function |
|---------------------------|---------|--|----------------------|-----------------|----------------|----------------|--|---|
| Nathalie Sauze-Vandevyver | Belgium | Agriculture | Directorates-General | | European Union | Bioeconomy | nathalie.sauze-vandevyver@ec.europa.eu | Director "Quality, Research & Innovation, Outreach" |
| Tassos Haniotis | Belgium | Agriculture, International stakeholder | Directorates-General | | European Union | Bioeconomy | Anastassios.HANIOTIS@ec.europa.eu | |
| Marc Duponcel | Belgium | International stakeholder | Directorates-General | | International | Digitalization | marc.duponcel@ec.europa.eu | Directorate General for Agriculture and Rural Development |
| Vincent CORDONNIER | EU | Institutional stakeholder | Directorates-General | | European Union | Bioeconomy | vincent.cordonnier@ec.europa.eu | Assistant of Deputy Director-General Directorates |

Figure 5: Policy and Advocacy database page in the project management portal:
<http://www.erasmus-fields.eu/management/?q=policy-and-advocacy>

3 Future use of the database

The databases will be further used in T4.3 and integrated with a geographical map as an additional layer on the website. It will be upgraded and made publicly accessible by UNITO. It will allow to display, register, sort, classify all information created in the project and in particular:

1. VET providers map with their activities, certification, curricula, interest for collaboration, search for partners, language and place.
2. VET stakeholders
3. Stakeholders interested in the training
4. Stakeholders offering apprenticeship
5. Previous best practices, projects and their outputs
6. Curricula available within the project and outside
7. National and EU frameworks and funding opportunities
8. Public Events made
9. Dissemination material

The database on other relevant stakeholders in FIELDS will be mainly used for WP7 dissemination activities.