

AGROTRAINING - PROOFING GBIF USE ON AGROBIODIVERSITY THROUGH NEEDS ASSESSMENT AND TRAINING

MID-TERM ACTIVITY REPORT

(update 30 April)

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Executive summary

The Agrotraining project aims at understanding the needs of biodiversity information and tools by agrobiodiversity community, and address them in a training course that will foster the use of GBIF and other biodiversity data resources in agrobiodiversity applications. The project includes a needs assessment, based on a stakeholder participatory workshop and an online survey, and a regional training course on the use of biodiversity information in agrobiodiversity. The training will benefit from lessons learned from the needs assessment.

The advance of the project is very much aligned with the initial plan of tasks, although a rescheduling was needed for the completion of some events/deliverables. However, none of the goals or the final date of the project were affected by the changes operated, which were communicated in due time to the GBIF Secretariat. The two main deliverables already accomplished were the two days workshop Training for Trainers, with 12 participants, and the full day Participatory workshop with the stakeholders, with 24 participants. The analysis of the results of the latter workshop is presently ongoing, as well as the design of the online survey, which is expected to be launched soon. As scheduled, the future project outcomes will include a needs assessment report on the use of agrobiodiversity information and a regional training course, with a newly designed curriculum that will cover main needs identified by the stakeholders in the needs assessment.

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Introduction

The broader goal of the Agrottraining project is to promote the use of biodiversity information in the field of agrobiodiversity, by understanding the needs of the stakeholder community and design and implement a training curriculum to foster that use. This is in alignment with the [GBIF's Strategic Plan 2017-2021](#) on the Delivering Relevant Data axis - identify what data needs exists from the community -, but touching also in other axis like Fill Data Gaps - Gap map -, Improve Data Quality - Metadata, Experts -, and Organize Biodiversity Knowledge - Checklists, Traits, etc.).

The implementation of the project was organized around three main tasks: i) coordination, ii) needs assessment on agrobiodiversity information and uses, and iii) training workshop on agrobiodiversity information. The second task will assess the needs that the agrobiodiversity community have on information and tools about biodiversity (either available through GBIF or other sources), using either a participatory workshop with the stakeholders, and complemented by an online survey to the agrobiodiversity community. The third task will benefit from lessons learned on the needs assessment, to build and give a training course that covers the use of biodiversity information on agrobiodiversity applications. The coordination task ensures that fluxes of information and knowledge occur between these two main task groups of the project team, as well as the realisation of the reporting, administrative tasks and monitoring of task/subtask completion according to the [detailed project calendar](#) (also in annex 1).

The advance on the tasks execution is monitored by the coordination team, which includes the project coordinator - Rui Figueira -, the representatives of the project partners - Cristina Villaverde and Luís Goulão - and two coordinators of task ii) - Cristina Branquinho, Idalina Sardinha - and task iii) - José Carlos Franco, Maria Romeiras. This involves exchange of email messages, which is sometimes extended to the full project team, when major

decisions have to be made. If changes of the original plans are needed, the officers of the CESP projects in the GBIF Secretariat are also informed and consulted.

It was the case the workshop with the stakeholders, which had to be postponed from November 2016 to January 2017. This was need because of the low number of confirmed participants (12) compared to the the planned number (30), which was not enough to ensure that the goals we defined for the workshop would be fulfilled. This resulted in the need of rescheduling of the project calendar, already reflected in the [online](#) and annex 1 version, but no changes were required on the final goals of the project, deliverables (except for the delivery date) and final date of the project.

The project and its objectives

The project is expected to run for 12 months, from July 2016 to June 2017. It includes two types of actions of the CESP programme, namely a needs assessment and a regional training course. The needs assessment, unlike the usual self-assessment at the participant level, will assess the needs for use of biodiversity information in the domain of agrobiodiversity.

The project includes three partners, which have been actively involved in the development of the project:

GBIF Portugal: Rui Figueira

GBIF Spain: Cristina Villaverde, Katia Cezón, Ana Cruz and Felipe Castilla

College Food, Farming and Forestry (F3) of the University of Lisbon: Luís Goulão, Amélia Branco, Cristina Branquinho, Dulce Freire, Helena Oliveira, Idalina Dias Sardinha, José Carlos Franco, Margaria Lima de Faria, Margarida Santos Reis, Maria Beatriz Carmo, Maria Manuel Romeiras, Vânia Proença, Wanda Viegas

Other collaborators: Filipa Monteiro (contract services), Ana Luz, Filipa Grilo, Helena Serrano.

The main goal of the project is to design and develop a training course on the use of agrobiodiversity information that will use GBIF and other relevant data sources. This goal will be reached following a three step process that includes:

1. identify agrobiodiversity stakeholders' main needs on biodiversity database tools in order to provide guidance in the development of training direct to the agrobiodiversity community, through participatory approaches;
2. to develop a complete package of learning activities and outreach materials, designed to achieve the objectives of the training program, including a general assessment of the currently available tools and functionalities on biodiversity information and biodiversity informatics resources;
3. to organize a regional training workshop, using GBIF and other sources, including the use of tools with respect to required formal specifications, in order to evaluate the system global effectiveness and identifying gaps limiting its use, either on types of essential information, or on the accessibility to it (e.g. taxonomic information, vernacular names, socioeconomic, nutritional or medical uses, mechanisms of pollination and seed dispersal, data visualisation, integration of other platforms).

Project activities completed by mid-term

The full and updated plan of activities, including the main tasks and subtasks, their calendarization, and the deliverables, is available for the project team as a [shared doc](#). There has been a need of some adjustments on the project calendar, due to the reasons explained below, and in due time communicated to the GBIF CESP coordination team, which, however, have not implied changes in the final goals of the project, and its deliverables.

The completed and ongoing activities, by the mid-term of the project were/are:

1. Launch meeting

Date: 26.07.2016

Status: completed

Description: Launch meeting of the project with the full team, to approve the calendar of activities and define working groups for the i) needs assessment and ii) training course curriculum development tasks. The meeting was preceded by a skype call with GBIF Spain to exchange comments on the calendar and define contributes to the tasks/roles during the project.

2. Workshop Training for Trainers

Date: 16-17.09.2016

Status: completed

Description: Many of the members of the project team belonging to College F3 did not have previous experience in use of GBIF, or an insight view of the potential, tools, role within the landscape of biodiversity informatics initiatives and platforms.

This two days workshop, which was attended by 12 members of the project, included sessions on:

- i) an introductory presentation of GBIF, the portal and access to data;
- ii) an overview on the biodiversity informatics area, including other initiatives on biodiversity informatics, interoperability, introduction to semantic web, ontologies, virtual laboratories and tools;
- iii) data standards, with a particular analysis of Darwin Core, Multi-Crop Passport Descriptor, and the connections between the two data standards.

In the second part of the workshop, four groups were created to develop case studies, which allowed a on-hands use of GBIF resources. The full agenda of workshop is [available here](#) (in portuguese).

Verification: To verify if trainees were able to make a complete cycle of using GBIF resources in a user point of view – access-search-explore-download-interpret –, they developed and presented the following use cases, organised in groups of three people:

- Relações entre espécies: o caso dos polinizadores do género *Bombus* e *Apis* na Bacia do Mediterrâneo (*Relationships between species: the case of pollinators of genus Bombus and Apis in the Mediterranean Basin*);

- BiRDS – BioIndicador de Resiliência e Diversidade para Stakeholders (*Resiliency and diversity bioindicator for stakeholders*)
- Cashew (*Anacardium occidentale* L.): a major tropical cash crop
- Validação de uma listagem de culturas classificadas como de subsistência, de rendimento e emergentes em 3 regiões da Guiné-Bissau (Validation of a list of crops classified as Subsistence Emergent Commercial Crops in three regions of Guinea-Bissau)

Links to the reports of the use cases presented in the workshop available, in portuguese, in the [agenda of the workshop](#).

3. Workshop with the stakeholders

Date: 26.01.2017

Status: completed

Description: Through a participatory full day workshop, we aimed at performing an identification of the main needs of the stakeholders on agrobiodiversity information. In order to obtain an more in-deep view of these needs, we decided to focus the workshop on a specific agri-food value chain, the vineyard and wine sector, which is one of the more developed and mature agriculture sectors in Portugal. In this way, discussions on the workshop could be developed by the stakeholders into deeper analysis of the needs, but results can afterwards be abstracted in order to cover other agriculture production sectors and crop systems.

Initially planned for November 2016, the workshop had to be postponed to allow more time to engage with the stakeholder community and invite them to participate in the workshop.

The participation in the workshop was possible by participants invitation, selected using a stratified approach: vine and wine sector → activity in the central/south region of Portugal → representing one of the following typologies: production chain, regulators and NGOs, research and development. More than 100 people/entities were invited, from which 30 confirmed the presence and finally 24 participants attended to the workshop, representing 23 entities: 9 from production sector, 9 from the regulatory and NGOs, 6 from Research and Development. The report about the selection of the stakeholders is details in Annex 2.

The agenda was organised around two types of activities:

- reflection groups, with participants arranged in three homogeneous stakeholders typologies: production chain, regulators and NGOs, research and development. The groups answered a questionnaire of six questions to explore aspects related to the perception about agrobiodiversity, its components, how they influence or are influenced by the wine production activity, the association with the use of information in databases on agrobiodiversity, and finally, on the interactions that each group

establishes with other stakeholders. The analysis outputs of the focus groups is still ongoing, and it includes the transcription of the audio recordings, notes taken by the rapporteurs, photographs of white board written answers and paper notes and schemas drawn by participants.

- use cases on agrobiodiversity, developed by newly arranged groups, combining different typologies, were challenged to identify an issue where the use of biodiversity information would be very relevant to its resolution. From the three groups created, the use cases that were presented by the respective rapporteurs, focused on complementary aspects of agrobiodiversity, such as the distribution of the grape moth (*Lobesia botrana* Denis & Schifferrn), the importance of the genetic variability of the vine on the adaptation to climate change, or reconverting non-exploited areas to promote biodiversity in agri-environmental systems.

Additionally, the workshop included a presentation by the President of the Portuguese Institute of Vine and Wine, about the performance of the wine sector by Portugal, including in the global market, as well as the Vine and Wine Information System used by the institute. Other presentations were made by the organising team about GBIF and about use cases on agrobiodiversity using biodiversity occurrence data available through GBIF. All workshop presentations are available for download at the [workshop programme's page](#), and all plenary sessions were also video recorded, and a transcription will be made, particularly of the discussion.

The opinion of the participants about of the workshop was generally very positive, as reflected by the feedback from the evaluation forms that 20 participants filled in (Annex 3).

Output materials of the workshop, for further analysis, include:

- audio recording of all focus-groups and plenary sessions;
- transcriptions of the audio recordings for analysis;
- documentation of white boards and paper boards by photographs for all focus-groups sessions

It is worthwhile to note that the preparation of the workshop, and notably of the questionnaire used for the focus groups session, as well as the focus groups sessions rehearsal and testing, required four team meetings, on October 13, November 10 and 21 and in January 13.

A presentation about the report of the workshop, still in work-in-progress phase, was presented in the mid-term meeting, which is attached (annex 4). The presentation was focused on the The full workshop report will denote

4. Online survey on agrobiodiversity information needs and use

Date: 17 Abr - 15 May 2017

Status: ongoing

Description: The information gathering for the needs assessment of biodiversity information, started with the workshop with the stakeholders will be complemented by a

global online survey. The survey is open for responses from 17 April to 15 May, in four languages, at this link: <http://www.gbif.pt/questionario..>

The survey is available online at . The draft was then be sent to GBIF Spain and to the GBIF Secretariat (Dmitry Schigel) for inputs and comments. After the final consolidation, the questionnaire was translated to three languages (english, french, spanish), being french an extra-project collaboration by the french native colleagues of the Belgian Biodiversity Platform.

The contact list of stakeholders prepared for the workshop in Portugal was expanded to include potential participants in all domains of agrobiodiversity (including agriculture, forestry, fisheries). The mailing list of College F3, with more than on thousand contacts was also used to announce the survey.

GBIF Spain also prepared a list of stakeholders to be approached as potential participants.

The GBIF Secretariat and the full list of node managers of GBIF was asked to publicize the online survey through its contact list. Additionally, social network accounts, namely, twitter, was also used to publicize the survey.

The survey is available online in the following links:

English: www.gbif.pt/questionnaire

French: www.gbif.pt/questionnaire_francais

Spanish: www.gbif.pt/cuestionario

Portuguese: www.gbif.pt/questionario

5. Report on stakeholders requirements based on participatory approach workshop and questionnaires results

Date: April 2017

Status: ongoing

Description: In order to obtain a deeper understanding of the needs on agrobiodiversity information, three focus groups were created under a specific value chain well developed in Portugal: the vine and wine sector:

Producers: entities involver in the vine and wine production;

Regulators and NGOs: entities and organisations involved in the development, promotion, application and monitoring of regulations in the sector;

Researchers: individuals developing research activity linked to the sector.

Additionally, for the producers group, a target region was defined – south central Portugal – in order to restrict variability in the sector activity caused by geographic factors associated to the vine and wine sector. This geographic restriction was not applied to the A first draft of the report with the results of the participatory workshop with the stakeholders was prepared and presented (annex 4) in the Mid-term meeting (see next activity).

Preliminary results indicate differences on the information seeked by the groups, and the resources accessed to obtain it. This is reflected by differenced in the specific needs, and

also the knowledge of the available resources. Only the producers group declared that they had no previous knowledge about GBIF.

The workshop results will be combined with the results of the online survey in order to produce an overview of the needs indicated by each stakeholder group, but this is awaiting for the closure of the online survey,

6. Mid-term coordination meeting of the project in Lisbon

Date: 18 April 2017

Status: completed

Description: With the presence of the coordinator of GBIF Spain, Cristina Villaverde, this mid-term meeting (agenda in annex 5) was devoted to define the structure of the training course.

The meeting included a preliminary report of the results of the workshop with the stakeholders (annex 4). These results were considered in the definition of the topics to be covered in the workshop.

The presentation about the training experience of GBIF Spain, and the discussion that followed, helped the project team about the more effective ways of developing training contents, including the hands-on session.

In the meeting, contributes for the draft programme of the course were gathered from the participants. The draft programme prepared is available at www.gbif.pt/node/377.

7. Report on Needs Assessment

Date: May 2017

Status: planned

Description: The full analysis of the needs assessment, identifying requirements and resources identified and used by the stakeholder community, and possible routes for solutions for improving the use of biodiversity information in agrobiodiversity applications and uses will be reported.

8. Training curriculum, training workshop and training materials offline/online

Date: 28-30 June 2017

Status: ongoing

Description: The regional training course is scheduled for 28-30 June 2017, in Lisbon. The course was announced on the 26th of April, and the reception of applications is open until 19th of May. A web page was created in support of the workshop at www.gbif.pt/agbtraining.

The curriculum of the training course on use of biodiversity information in agrobiodiversity applications is being designed in order to cover main requirements identified by the needs assessment. The preliminary results of the workshop with the stakeholders (activity 3) and of the online survey (activity 4) will be used by the trainers in the topics that will be covered in the workshop.

The draft programme of the training course is available at www.gbif.pt/node/377.

The regional training workshop will have all sessions recorded by video, in order to provide support to an online version of the training, as well as access to materials in offline mode.

Deliverables

This is the development status of the deliverables, as referred in the full proposal

	REF. FULL PROPOSAL/DELIVERABLES	SUBMITTED/REMARKS
1	Workshop with agrobiodiversity stakeholders to identify main requirements on agrobiodiversity information use (30 participants)	Completed (see activity 3)
2	Online questionnaire on agrobiodiversity information needs and use (Portugal and Spain)	Ongoing (see activity 4)
3	Report on stakeholders requirements based on participatory-approach workshop and questionnaires results	In preparation, draft of the workshop available (see activity 5 and annex 4)
4	Report of needs assessment for the use of biodiversity information on agrobiodiversity based on cross-check of stakeholders requirements against GBIF functionalities	Planned (June 2017, see activity 7)
5	Training of trainers on agrobiodiversity about GBIF data portal's use (12 participants)	Completed (see activity 2)
6	Training course on agrobiodiversity information use (25 participants)	Ongoing (see activity 8)
7	Online course implemented in the GBIF.ES e-learning platform aTutor	Planned (June 2017)
8	Online training course on agrobiodiversity use including supporting materials (videos and presentations, tutorial (pdf) with examples of data collection, processing and analyses)	Planned (June 2017)
	OTHER DELIVERABLES	
9	Launch meeting	Completed (see activity 1)
10	Mid-term coordinating meeting of the project in Lisbon	Completed (see activity 6)

Project communications

The project and all main events are publicized through the appropriate channels, namely:

- Project page: www.gbif.pt/agrotraining
- News item about the winning of the project [New GBIF training project won by GBIF Portugal, in partnership with GBIF Spain and College F3, dedicated to agrobiodiversity](#)
- News item on the Training for trainers workshop: [College F3 members receive training on GBIF](#)
- Workshop with the stakeholders on agrobiodiversity **Increasing the value of Agrobiodiversity and the importance of biodiversity databases for wine production:**
 - Announcement of the workshop: [Workshop with stakeholders discusses needs on biodiversity information for agrobiodiversity](#)
 - mini site for the workshop www.gbif.pt/workshop_agrobiodiversidade
 - new item about the workshop [Workshop with stakeholders promotes identification of information needs on agrobiodiversity](#)
 - Addition to the [GBIF's Events calendar](#)
- [News item about the launch of the questionnaire Launch of the Questionnaire on the Needs in the Use of Agrobiodiversity Information](#)
- [Open call for the training course "Use of Agrobiodiversity information in GBIF and other databases"](#)
 - [Addition of the training workshop to GBIF's Event calendar](#)

The news items published through www.gbif.pt are also available through the PT country page of gbif.org, benefiting from RSS feed. Twitter or similar channels are also used whenever appropriate to publicize projects' activities and announcements.

Furthermore, a presentation about the project was made at the GBIF GB23 Public Symposium, Brasília, 26 Oct 2016: [Delivering Relevant Data - the case of agrobiodiversity](#).

Mid-term evaluation findings and recommendations for the remaining project

implementation period

The main findings of this mid-term project evaluation are:

- one of the main strengths of the project is that it benefits from an interdisciplinary team of the College F3 partner, ranging from social to natural sciences, which brings new views, approaches and concerns on the field of agrobiodiversity to the project implementation;

- although the need of rescheduling the project tasks and end dates of the deliverables (and also of this mid-term report date), the project's progress allows to expect that the full goals of the project will be achieved;
- it was difficult to ensure the minimum level of participation in the stakeholder workshop. Although the topic raised general interest by the stakeholder community, the availability to be present in a full day participatory workshop had to compete with heavily tight agendas, which required a well planned approach of invitation, including email contacts, phone calls, email reminders and final email registration confirmations. This approach requires time, which was the reason why the date of the workshop was postponed, but revealed to be successful;
- the preparation of the workshop demanded for a highly engaged and dedicated team, considering not only the organisation aspects, but the preparation of the focus groups methodology and questionnaire, which included meetings for testing;
- the interaction with the stakeholder community was very rewarding, from the feedback obtained by the participants during the workshop. Several participants mentioned the high interest on the approach to discuss the agrobiodiversity topic - participatory workshop with focus groups and development of use cases on agrobiodiversity information use -, which gave them the opportunity to express their opinions in a dedicated and specialized forum. Some referred the opinion of the need to repeat the exercise for other agriculture production sectors;

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Annex 2

INCREASING THE VALUE OF AGROBIODIVERSITY AND THE IMPORTANCE OF BIODIVERSITY DATABASES FOR WINE PRODUCTION

AGROTRAINING PARTICIPATORY WORKSHOP WITH THE STAKEHOLDERS

ICS, Lisbon, 26th January 2017

Selection of stakeholders

1. Background

The Workshop with agrobiodiversity stakeholders to identify main requirements on agrobiodiversity information use was successfully achieved in 26th January 2017 (http://www.gbif.pt/workshop_agrobiodiversidade), under the project GBIF CESP2016007 “Agrotraining Proofing GBIF use on agrobiodiversity through needs assessment and training” by Portuguese Node of GBIF, in partnership with the [Spanish GBIF Node](#) and the [College F3 \(Food, Farming and Forestry\)](#), University of Lisbon (<http://www.gbif.pt/node/348?language=en>).

The participatory workshop held was conducted to assess how the stakeholders recognize and debate agrobiodiversity, how the information connections on biodiversity and agrobiodiversity are noticed in and within group, and the problems associated to biodiversity databases uses. Stakeholders selection for this workshop were those relevant in the context of vineyard and wine value-chain and land-use decision’s makers at regional and national level, focusing namely on the Alentejo and Lisbon Region. The thematic within the Workshop was focused on the typology and interactions of information about

agrobiodiversity in the vineyard and wine sector, sector which displays a great national socio-economic significance and can benefit from agrobiodiversity valorization.

1.1. Stakeholder’s typologies, selection and attendance

Stakeholder’s typologies were separated into three distinctive groups: (1) Product Value Chain, (2) Affairs Entities and NGOs, (3) Researchers and R&D entities.

The selection within Product Value Chain typology was performed through the Nomenclature of Territorial Units for Statistical Purposes (NUTS) for Portuguese territorial units, under the Decree-Law no. 46/89 umbrella, narrowing to the NUTS III for the following regions: PT18- Alentejo (PT184- Baixo Alentejo; PT185- Lezíria do Tejo; PT186- Alto Alentejo; PT187- Alentejo Central). Moreover, under these regions the most representative Wine regions available at <http://www.winesofportugal.info/pagina.php?codNode=18012>, were selected and contacted (Figure 1). For the remaining two groups, Affairs Entities and NGOs and Researchers and R&D entities, invitations were addressed at national level focusing on their expertise within both land-use decision’s makers and agrobiodiversity/ wine research activities.



Figure 1- Eight sub-regions of PT18-Alentejo selected for Product Value Chain stakeholder typology as highlighted in Wines of Portugal website as the most important regions for wine sector, which all fall within the NUTS III criteria.

From the total number of contacted of stakeholders typology (113), about 26.5% of positive answers was obtained accounting 30 participants (Table 1).

Stakeholders Typology	Number of contacts	Number of positive answers
Product Value Chain	62 (54.9%)	11
Affairs Entities and NGOs	29 (25.7%)	10
Researchers and R&D entities	22 (19.4%)	9
Total	113	30 (26.5%)

Table 1- Stakeholders Typology, contacts performed and positive assignment for the Workshop participation.

In each stakeholder’s typology, the most contributing group was the R&D entities, with a 41% of positive answers, followed by the Affairs Entities and ONGs with 34.5% and ultimately, the Product

Value chain group as the least participating group with 17.7%, despite the huge number of contacts performed in comparison with the 2 remaining groups. Upon the Workshop, most positive contacts appeared, with a lost of a total of 6 members that alleged personal and problems of agenda at the last moment.

AGROTRAINING - PROOFING GBIF USE ON AGROBIODIVERSITY THROUGH NEEDS ASSESSMENT AND TRAINING

MID-TERM ACTIVITY REPORT

Annex 3

INCREASING THE VALUE OF AGROBIODIVERSITY AND THE IMPORTANCE OF BIODIVERSITY DATABASES FOR WINE PRODUCTION

AGROTRAINING PARTICIPATORY WORKSHOP WITH THE STAKEHOLDERS

ICS, Lisbon, 26th January 2017

Report on the satisfaction evaluation by the participants

The Evaluation survey (in portuguese) is attached to the end of this report. It included seven questions. The first four questions about i) general feedback; ii) venue and organization; iii) session I – Focus Groups iv) session II – Use Cases, where responded by rating from 1 (very unsatisfied) to 5 (very satisfied). The last three where open questions about v) the relevance of the results of the workshop for the participants' activity, vi) if there was a topic that he would like to be included, possibly in future activities, and vii) if the participant had any further comment to add.

1. Workshop Characteristics & Venue Satisfaction

In the Workshop Characteristics & Venue Organization satisfactory survey, one can depict that on the Venue Organization more than 60% of the respondents were very satisfied (level 5) in all categories outlined in Figure 2.

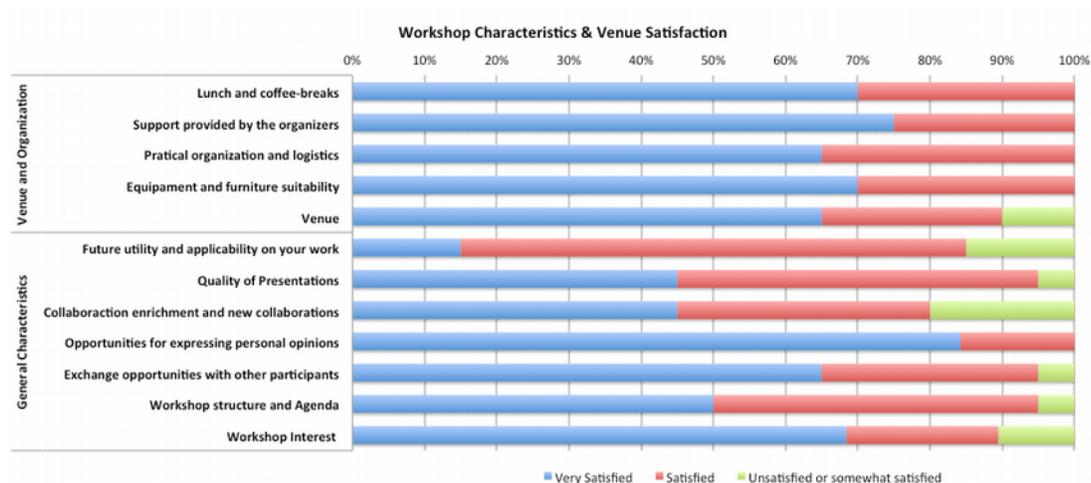


Figure 2- Workshop Characteristics & Venue Organization satisfactory survey results.

Regarding the General Characteristics of Workshop, overall the participants were very satisfied and satisfied (levels 5 and 4), yet few responses resulted in unsatisfied and somewhat satisfied (level 3), mainly on the Collaboration enrichment and new collaborations (20%) and future utility and applicability of their work (15%). These preliminary results denotes that more workshops explaining the use of databases on agrobiodiversity should be pursued in order to raise awareness onto its applicability in the diverse sectors along the product value-chain.

1.3.2. Focus & Reflection Group

In the Focus & Reflection Group satisfactory survey, one can depict that in both methodologies applied in the Workshop than 80% of the participants were very satisfied/satisfied (levels 5 and 4) in all categories as outlined in Figure 3.

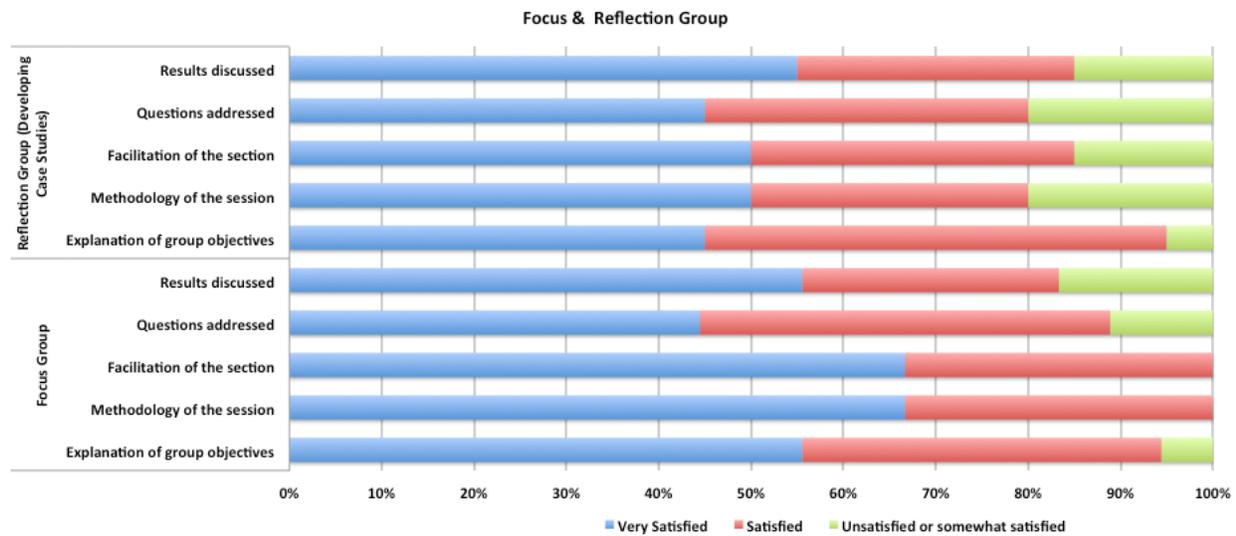


Figure 3- Focus & Reflection Group satisfactory survey results.

Regarding the Focus Group approach, overall the participants were very satisfied and satisfied (levels 5 and 4), yet few responses resulted in unsatisfied and somewhat satisfied (levels 2 and 3), mainly on the results discussed (17%) and Questions addressed (11%). These preliminary results show the high success of the Focus group methodology, which the participants have contributed and showed that the results could be discussed more deeply. In the Reflection Group, participants engaged in developing case studies through a needs assessment and under a mixed- stakeholders typology group set. Overall, participants were satisfied and presented their case studies at the end of the section. The reflection group results are a good starting point to determine the needs assessment of stakeholders on wine sector regarding agrobiodiversity and database prerequisites for future applicability.

2. Free-answers survey

On the free-answers survey, several questions were performed in order to obtain a more personal opinion on the workshop. When performing if the results are useful for their activity, most participants (25%) referred the greater knowledge acquired about databases information on biodiversity, sustainability and enoturism; while referring to networking and application of the information obtained in the Workshop to future projects.

Among the question if any topic would be important in the light of their activities' expertise, 70% of the participants have not presented any proposal. However, suggestions made by the remaining participants showed the great awareness of database information on assisting agrobiodiversity, at different levels, namely: (1) the potential of using the high number of Portuguese vine varieties for approaching germplasm conservation, climate changes, valorization & exploitation; (2) the use of GBIF on land-use planning, namely of habitats management with biodiversity and/or protected areas (Rede Natura 2000) with agriculture; and (3) a database on biological diversity.

Upon an additional question to any additional commentary, participants that answered (25%) highlighted the utility of the workshop for implementing databases use; stimulate the fostering of more workshops approaching a different subject (e.g. olive grove), and ultimately referred they would like to have more time in the Focus Group approach.

Overall, the workshop showed to be very successful of its goals achieved, but also the participants were very satisfied not only by Workshop characteristics & Venue organization, but also for the methodology applied through a Focus group followed by a mixed- stakeholders reflection group.



INQUÉRITO DE SATISFAÇÃO

WORKSHOP VALORIZAÇÃO DA AGROBIODIVERSIDADE E A IMPORTÂNCIA DA INFORMAÇÃO EM BASES DE DADOS PARA A FILEIRA DA VINHA

1. Características Gerais - Avalie a sua satisfação sobre os diferentes aspectos listados abaixo:

	n/a	1	2	3	4	5
<i>Interesse sobre o tópico do workshop</i>						
<i>Estrutura e agenda do workshop</i>						
<i>Oportunidades para interagir com outros participantes</i>						
<i>Oportunidades para expressar suas opiniões pessoais</i>						
<i>Fortalecimento de colaborações existentes e criação de novas</i>						
<i>Qualidade das apresentações</i>						
<i>Utilidade e aplicabilidade futura no meu trabalho</i>						

(1 = muito insatisfeito, 5 = muito satisfeito)

2. Local e Organização - Avalie a sua satisfação sobre os diferentes aspectos listados abaixo:

	n/a	1	2	3	4	5
<i>Adequação do local</i>						
<i>Adequação do mobiliário e equipamento</i>						
<i>Logística e organização prática</i>						
<i>Apoio oferecida pelos organizadores antes e durante a reunião</i>						
<i>Almoço e coffee-breaks (geral)</i>						

(1 = muito insatisfeito, 5 = muito satisfeito)

3. Sobre a Parte I - Reflexão em grupo / focus group: Como avalia:

	n/a	1	2	3	4	5
<i>A explicação sobre os objectivos da sessão</i>						
<i>A metodologia da sessão</i>						
<i>A facilitação da sessão</i>						
<i>As questões da sessão</i>						
<i>Os resultados da discussão</i>						

(1 = muito insatisfeito, 5 = muito satisfeito)

4. Sobre a Parte II – Desenvolvimento de Casos de Uso: Como avalia:

	n/a	1	2	3	4	5
<i>A explicação sobre os objectivos da sessão</i>						
<i>A metodologia da sessão</i>						
<i>A facilitação da sessão</i>						
<i>A estrutura da sessão</i>						
<i>Os resultados da discussão</i>						

(1 = muito insatisfeito, 5 = muito satisfeito)



5. Considera úteis os resultados do workshop para a sua actividade? Diga-nos como?

6. Existe algum tópico que gostaria de ver coberto pelo workshop, ou que considere interessante para actividades futuras?

7. Tem algum comentário adicional que queira deixar?

Opcional: Caso deseje, deixe o seu nome para possíveis contactos futuros baseados nos seus comentários.

STAKEHOLDERS' NEEDS ASSESSMENT ON AGROBIODIVERSITY INFORMATION

*Agrotraining - Proofing GBIF use on agrobiodiversity through needs
assessment and training*



Project goals

- The project aims at identifying stakeholders' needs on agrobiodiversity information as related to their specific activities.
- In order to have a deep understanding of these needs, the focus groups were dedicated to a specific value chain – the vine and the wine sector – one of the most developed agriculture sectors in Portugal.
- It was nevertheless assumed that the results of these focus groups discussions could be adaptable to similar productive activities.

Focus groups

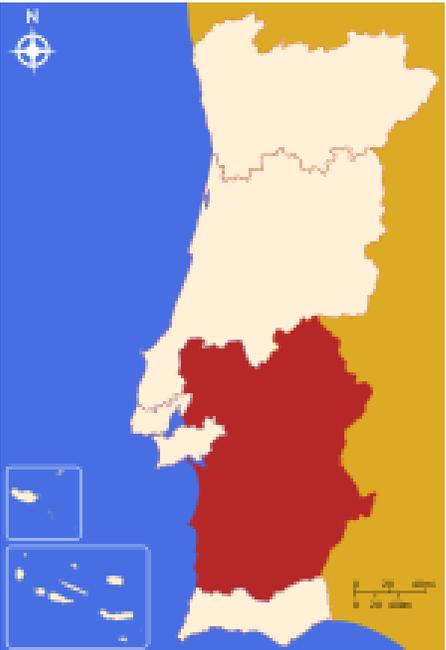
Stakeholders

113 stakeholders invited
26.5% (30) replied positively



Stakeholders	Stakeholders invited	Confirmed	Participants
Producers	62	11	9
Regulators	29	10	9
Researchers	22	9	10
Total	113	30 (26.5%)	28

Target region

 <p>Alentejo</p>	PT18	Alentejo Litoral	PT181
		Alto Alentejo	PT182
		Alentejo Central	PT183
		Baixo Alentejo	PT184
		Lezíria do Tejo	PT185

Producers

WHICH INFORMATION DO THEY SEEK?

- On their specific activity
- About their region
- Information on soils
- Information on species (fauna and flora)
- Wine grape varieties
- Pesticides
- Historical information
- Cartographic information (i.e. soil, groundwater)

THE BUILDING OF REGIONAL SCENARIOS =
PROFILE OF PERFORMANCE SUSTAINABILITY

WHERE DO THEY SEARCH IT?

- Wine producers database – System of info for winegrowers - Alentejo
- Meteorological info for winegrowers (climatic seasons and other) – IPMA
- Pesticide database
- Soil maps
- Maps of aquifers
- PL@NTNET for species identification
- BIODIVERSITY4ALL,
- SPEA
- NATURDATA
- Do not know GBIF

Regulators

WHICH INFORMATION DO THEY SEEK?

- Pests
- Diseases
- Invasive plants
- Varieties
- Geographic records – wine variety distribution
- Legislation
- Photographic images



REPORTS

WHERE DO THEY SEARCH IT?

- Farmers' knowledge
- SIVA – Alentejo Winegrower Info System (Sistema de Informação Vitivinícola Alentejano)
- Official data bases vs. non official (blogs, social media pages)
- Their own databases
- UROLEX, ANTHOS.ES
- FLORA.ON
- BIODIVERSITY4ALL,
- SPEA, NATURDATA, AVES DE PORTUGAL
- FLICKR (photos)
- Know GBIF

Researchers

WHICH INFORMATION DO THEY SEEK?

- Bibliographic research (published articles)
- Identification of botanical and animal species
- Genomic research (microbiomes connected to soil and vines)



STRUCTURE OF SUSTAINABILITY OF THE
DIVERSITY OF VINE SPECIES –
(PRODUCTION OF SCIENTIFIC ARTICLES)

WHERE DO THEY SEARCH IT?

- VITIS International Variety Catalogue
- EBIRD
- FLORA.ON
- EURISCO
- GRIN GLOBAL
- AEGIS
- GENOINSEQ (identification of microbiomes)
- National Catalogue of IV
- They know and use GBIF

Producers

SPECIFIC NEEDS

- Information on “neighboring” cultures that can interfere in their production
- Birdlife
- Ecological corridors
- Micro-mammals
- Dispersion of species
- Cartographic information (soil maps – improve watering systems)



**INFORMATION THAT MAY ALLOW THE DEVELOPMENT OF AN AGRICULTURE OF “PRECISION” AND THAT
MAY DIRECT/ORIENTATE THEIR “INTERVENTION TO IMPROVE THE VINES”**

Regulators

SPECIFIC NEEDS

- Well structured Portuguese data bases
- Consistent, reliable and available databases
- Updated info (climate changes require it)
- Data that allow for comparative analysis (i.e. of different countries)



INFORMATION THAT MAY ALLOW THE CONSTRUCTION OF A STRUCTURED PLAN FOR A SPECIFIC VINE OR FOR AN ENVIRONMENTAL IMPACT STUDY OF A CERTAIN ACTIVITY

Researchers



SPECIFIC NEEDS

- Improved coordination in the field of genetic resources
- Updated data, living biodiversity (in contrast with the “dead” biodiversity which GBIF has made available).
- Common names of species (they have trouble using/decoding the language which is specific to GBIF)
- Readable / understandable databases (consistency in the naming/ identification of varieties, which, in the case of vines, can have several names)
- A database consistent with international agreements
- Wider integration of databases (more collaboration)
- Information about intervarietal diversity for specialized use
- Greater coordination between policies and databases
- Information about genetic vegetal resources in conformity with international treaties



INFORMATION ON GENETIC RESOURCES IN TUNE WITH INTERNATIONAL TREATIES

Thank you





Projecto Agrotraining - Proofing GBIF use on agrobiodiversity through needs assessment and training

Agenda

Mid-term coordination meeting of the project Agrotraining

Venue: FCUL, room 2.2.24

18th April 2017, 14:00-17:00h

1. Informations
2. Summery of the activities of the project
3. Needs assessmetn – Main results (Margarida Lima de Faria)
4. Contribute to magazine CULTIVAR
5. Training experience of GBIF Spain (Cristina Villaverde)
6. Discussion on the structure of the training course *Use of Agrobiodiversity information in GBIF and other databases*
7. AOB