D8.5: Farmer colleges field trials

“The College Project”

Due date: M36

Actual submission date: M40
Project start date: January 1st, 2014  Duration: 60 months

Workpackage concerned: WP8

Concerned workpackage leader: AI

Dissemination level: PU
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Summary

The objectives of the college project are to communicate around WHEALBI project and show the importance of genetic resources for the future of agriculture directly to different colleges and universities.

To that end, 5 European agriculture colleges and universities, coming from 5 different countries (Italy, France, UK, Germany and Hungary) are involved in the "College project".

These colleges and universities conduct in one growing season (2016/2017) small trials to work and investigate, on a pedagogical way, the genetic diversity of 16 varieties of wheat and 16 varieties of barley.

From March 2017, these colleges will be all together in contact to discuss and analyse the observations they will make around the diversity of the same varieties cultivated in different locations and environments.

Teams from the project (NIAB for UK, IPK for Germany, MTA-ATK for Hungary, SIS for Italy and INRA for France) participate and teach in the project.

Arcadia International coordinates, teaches and disseminates information around the college project.
1. Introduction

The goal of this deliverable is to describe the actions undertaken under the “College Project” from January 2016 onward and describe the next actions until the end of the college project around July 2017. Dissemination actions will continue after the end of the project.

2. Organization of the College project

To communicate around WHEALBI project and show the importance of genetic resources for the future of agriculture, 5 European agriculture colleges and universities, coming from 5 different countries (Italy, France, UK, Germany and Hungary) are involved in the dissemination of the project through the “College project”.

These colleges and universities conduct in one growing season (2016/2017) small trials to work and investigate, on a pedagogical way, the genetic diversity of wheat and barley (see the list of the varieties in Annex). From March 2017, these colleges will be all together in contact to discuss and analyse the observations they will make around the diversity of the same varieties cultivated in different locations and environments.

**The participating universities are:**

**VetAgro Sup** (Clermont-Ferrand, France) – The college project has been tested a first time from March to June 2016 with VetAgro Sup in France to perfectly set-up the college project - and students from VetAgro Sup got really involved in the project. A first video was shot and broadcasted on the French part on the website, and was then subtitled and widely broadcasted on YouTube. See: [http://www.whealbi.eu/fr/college-project-vetagrosup/](http://www.whealbi.eu/fr/college-project-vetagrosup/)

**Easton&Otley College** (Norwich, UK)

**Anhalt University of Applied Science** (Anhalt, Germany)

**Istituto Tecnico Agrario e Chimico Scarabelli – Ghini** (Imola, Italy)

**Georgikon Faculty**, University of Pannonia (Keszthely, Hungary)

**For the scholar year 2016-17, the schedule of the college project and courses is the following one:**

- **September-November 2016** (according to the usual sowing date of each country): introduction of the project to the students (half day intervention from a WHEALBI consortium member) + easy manual sowing / visit of the trials.

The idea of this first half day was to give a focus to the students on an European project, moving from “Some facts about Europe” to the “Europe of Research and Horizon 2020”, then to the specific Research Project “WHEALBI”, with, each time, a partner giving a talk focusing on his SME or institute and the work he is carrying out on WHEALBI. We then finished the course with the specific college project, including all the practical aspects and the next steps of the project in spring.

This first round of visits to the colleges gave also the opportunity to record videos with the students. The videos can be found on the WHEALBI YouTube Channel: [https://www.youtube.com/channel/UCAkECtSfizZLEdLRXGKTe-UQ](https://www.youtube.com/channel/UCAkECtSfizZLEdLRXGKTe-UQ). They can also be
found in the WHEALBI Website:  http://www.whealbi.eu/college-project-videos/, together with the courses presented to the students.

- **Winter 2016:** quick check of the trials by the students and the professors. Recordings of winter hardiness.

- **April/Mai 2017:** intervention of Arcadia + a participating institute: Total: 1 day.
  
  Courses: Remind the goal of the Whealbi project – Wheat and barley genetic resources – Wheat and barley breeding
  
  – Practical experimental design, what for?
  
  – Trial settings and recordings on the field – technics (with breeders and institutes)
  
  – How to interact with other colleges: the Dropbox and the shared forum + Facebook account (https://www.facebook.com/groups/whealbi/) that can be reached by each student.

- **From April 2017 to end of courses:** Twice a week: recordings on the field (personal work – can start to exchange with other colleges; ask questions on the forum, take pictures for disease identification to ask other colleges, etc.).

- **Beginning of June 2017 (according to college exams):** small statistical and genetical analysis + interaction with other colleges – final videoconference.

### 3. Communication around the college project

A full presentation of the college project is available on the website (dedicated page on media): http://www.whealbi.eu/college-project/

On the News pages:
http://www.whealbi.eu/kick-off-whealbi-college-project/
http://www.whealbi.eu/fr/college-project-vetagrosup/ (page in French)

On the Media Page:
http://www.whealbi.eu/media/

On newsletter 2: http://www.whealbi.eu/newsletter-2/


There are also a specific Facebook Group and YouTube Chanel (see above).

More than 100 students are participating in the college project, and they all use social networks to disseminate information. The use of social networks through the students from 5 different countries is thus an excellent way of disseminating videos and information around the WHEALBI project.
The next steps of communication will be done during the second round of visits, starting April 2017. Videos will be shot again with the students and disseminated through social network, Youtube and the website.

A final long film (around 20’) will be done at the end of the college project and prepared in French and English. This video will be widely broadcasted on internet, and will be also partly presented at the French “Salon de l'Agriculture” in February 2018.

(See Annex 3 with screen captures)

4. Conclusion

The college project shows a very efficient way of communicating around Europe, around the Europe of Research and specifically around one project, WHEALBI, on agriculture and genetic diversity.

Of course WHEALBI College Project costs a lot of efforts and also money to visit individually the 5 colleges involved in Europe and to coordinate them. But seeing the results and the implication of the students, we really think that it worth it. The 100 students participating in the project are thus really aware of what Europe does and how it works, how research works in Europe and what is a European research project – as they are even participating in real science through the trials.

Above all, this “field” dissemination to students is an excellent way of over disseminating information through their own social networks - as we have seen they all forwarded the information’s and videos about WHEALBI to their friends, which highly amplifies the power of dissemination.
Annex 1: list of varieties for the trial in the 5 participating countries

<table>
<thead>
<tr>
<th>Accession</th>
<th>Species</th>
<th>Country of origin</th>
<th>Biological status</th>
<th>Year listed/recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tiepolo</td>
<td>Wheat</td>
<td>Italy</td>
<td>Current variety</td>
<td>2009</td>
</tr>
<tr>
<td>MV-Kolo</td>
<td>Wheat</td>
<td>Hungary</td>
<td>Current variety</td>
<td>2006</td>
</tr>
<tr>
<td>KWS Santiago</td>
<td>Wheat</td>
<td>UK</td>
<td>Current variety</td>
<td>2011</td>
</tr>
<tr>
<td>Soissons</td>
<td>Wheat</td>
<td>France</td>
<td>Cultivar</td>
<td>1995</td>
</tr>
<tr>
<td>Bankuti-1201</td>
<td>Wheat</td>
<td>Hungary</td>
<td>Old cultivar</td>
<td>1955</td>
</tr>
<tr>
<td>Robigus</td>
<td>Wheat</td>
<td>UK</td>
<td>Cultivar</td>
<td>2003</td>
</tr>
<tr>
<td>Hereward</td>
<td>Wheat</td>
<td>UK</td>
<td>Cultivar</td>
<td>1991</td>
</tr>
<tr>
<td>WW 502</td>
<td>Wheat</td>
<td>China</td>
<td>Landrace</td>
<td></td>
</tr>
<tr>
<td>WW 512</td>
<td>Wheat</td>
<td>Italy</td>
<td>Landrace</td>
<td></td>
</tr>
<tr>
<td>Alchemy</td>
<td>Wheat</td>
<td>UK</td>
<td>Cultivar</td>
<td>2006</td>
</tr>
<tr>
<td>Ardito</td>
<td>Wheat</td>
<td>Italy</td>
<td>Old cultivar</td>
<td>1916</td>
</tr>
<tr>
<td>Apache</td>
<td>Wheat</td>
<td>France</td>
<td>Cultivar</td>
<td>1999</td>
</tr>
<tr>
<td>Hivernal</td>
<td>Wheat</td>
<td>France</td>
<td>Cultivar</td>
<td>1962</td>
</tr>
<tr>
<td>KWS Magic</td>
<td>Wheat</td>
<td>Germany</td>
<td>Cultivar</td>
<td></td>
</tr>
<tr>
<td>Granit</td>
<td>Wheat</td>
<td>Russia</td>
<td>Old cultivar</td>
<td>1978</td>
</tr>
<tr>
<td>Victo</td>
<td>Wheat</td>
<td>France</td>
<td>Cultivar</td>
<td>1994</td>
</tr>
<tr>
<td>Amillis</td>
<td>Barley</td>
<td>France</td>
<td>Cultivar</td>
<td>1995</td>
</tr>
<tr>
<td>Dea</td>
<td>Barley</td>
<td>Germany</td>
<td>Old cultivar</td>
<td>1953</td>
</tr>
<tr>
<td>Fridericus</td>
<td>Barley</td>
<td>Germany</td>
<td>Cultivar</td>
<td>2006</td>
</tr>
<tr>
<td>Hatif de Grignon</td>
<td>Barley</td>
<td>France</td>
<td>Old cultivar</td>
<td>1937</td>
</tr>
<tr>
<td>Ketos</td>
<td>Barley</td>
<td>France</td>
<td>Cultivar</td>
<td>2002</td>
</tr>
<tr>
<td>KWS Infinity</td>
<td>Barley</td>
<td>UK</td>
<td>Elite cultivar</td>
<td>2014?</td>
</tr>
<tr>
<td>Lomerit</td>
<td>Barley</td>
<td>UK</td>
<td>Elite cultivar</td>
<td>2007?</td>
</tr>
<tr>
<td>Robur</td>
<td>Barley</td>
<td>France</td>
<td>Cultivar</td>
<td>1973</td>
</tr>
<tr>
<td>Saffron</td>
<td>Barley</td>
<td>UK</td>
<td>Elite cultivar</td>
<td>2005?</td>
</tr>
<tr>
<td>Sixtine</td>
<td>Barley</td>
<td>Italy</td>
<td>Cultivar</td>
<td>2004</td>
</tr>
<tr>
<td>Manas</td>
<td>Barley</td>
<td>Ukraine</td>
<td>Cultivar</td>
<td>1995</td>
</tr>
<tr>
<td>Igri</td>
<td>Barley</td>
<td>Germany</td>
<td>Cultivar</td>
<td></td>
</tr>
<tr>
<td>Nure</td>
<td>Barley</td>
<td>Italy</td>
<td>Cultivar</td>
<td>1998</td>
</tr>
<tr>
<td>Tripolitaine 9598</td>
<td>Barley</td>
<td>Libya</td>
<td>Landrace</td>
<td></td>
</tr>
<tr>
<td>Aldebaran</td>
<td>Barley</td>
<td>Italy</td>
<td>Cultivar</td>
<td>2003</td>
</tr>
<tr>
<td>Tibet-A4</td>
<td>Barley</td>
<td>Tibet</td>
<td>Landrace</td>
<td></td>
</tr>
</tbody>
</table>
Annex 2: Set-up of the trial – instructions to the professors

Thank you for participating to the college project!

**Please find in the box 16 varieties of wheat and 16 varieties of barley (list attached)**

Sent: between 30 and 40g of seeds/variety

Minimum size of the trial: 1m or 1.5m long * 3 rows (as in nursery). 10 to 15g needed.
If automatic sowing --> usual country/nursery conditions
If manual sowing: 1 seed every +2cm

**Design of the trial: up to your field!**
For example in France, all the 30 varieties are sown in just one row -->

But they could also be sown as below:

<table>
<thead>
<tr>
<th>Ex. WHEAT and BARLEY trials</th>
<th>Max. size: 60m²</th>
<th>Max. size: 60m²</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1m</td>
<td>0.5m</td>
</tr>
<tr>
<td>Wheat</td>
<td>Var 1</td>
<td>Var 2</td>
</tr>
<tr>
<td>Path (0.5m)</td>
<td>Var 6</td>
<td>CONTROL (Victo)</td>
</tr>
<tr>
<td>Barley</td>
<td>Var 11</td>
<td>Var 12</td>
</tr>
<tr>
<td>CONTROL</td>
<td>Var 1</td>
<td>Var 2</td>
</tr>
<tr>
<td>var 6</td>
<td>var 7</td>
<td>var 8</td>
</tr>
<tr>
<td>var 11</td>
<td>var 12</td>
<td>var 13</td>
</tr>
</tbody>
</table>
Annex 3: Example of dissemination

**Youtube search:**

**College Project Whealbi - France - VetAgroSup - YouTube**
https://www.youtube.com/watch?v=KHz6gG02kQE
7 juin 2016 - Ajouté par Whealbi European project
Video réalisé autour du projet Europien www.whealbi.eu par les étudiants de Vetagrosup. Plus d'infos : http ...

**WHEALBI COLLEGE PROJECT - HUNGARY - YouTube**
https://www.youtube.com/watch?v=XRFe7Ch-vYy
10 janv. 2017 - Ajouté par sebastien crepieux
5 European agriculture colleges and universities from 5 different countries (Italy, France, UK, Germany and ...)

**WHEALBI COLLEGE PROJECT - GERMANY - YouTube**
https://www.youtube.com/watch?v=3oPnN6F7tw
10 janv. 2017 - Ajouté par Whealbi European project
5 European agriculture colleges and universities from 5 different countries (Italy, France, UK, Germany and ...)

**WHEALBI COLLEGE PROJECT - UK - YouTube**
https://www.youtube.com/watch?v=bCLPA_8magc
10 janv. 2017 - Ajouté par Whealbi European project
5 European agriculture colleges and universities from 5 different countries (Italy, France, UK, Germany and ...)

**WHEALBI COLLEGE PROJECT - ITALY - YouTube**
https://www.youtube.com/watch?v=Fow-R00K_b0
19 janv. 2017 - Ajouté par Whealbi European project
5 European agriculture colleges and universities from 5 different countries (Italy, France, UK, Germany and ...

**Facebook college project:**

![Facebook college project](https://www.facebook.com/groups/whealbi/)

- Sécurisé: https://www.facebook.com/groups/whealbi/
- Sebastien Crepieux
- Article 4
- Retrouver des amis
- Changer
- Ajouter
- Pages
- Groupes
- Listes d'avis
- Polices
- Afficher plus

**WHEALBI COLLEGE PROJECT**

**Groupe public**

- Membres
- Videos
- Photos
- Changer dans groupe

**ACTUALITÉ RÉCENTE**

**Sebastien Crepieux**
13 janvier, 08:44
Hello. Happy new year to all of you! I wish you all the best for 2017, and lots of success in your studies, and in your life. I added subtitles to the video recorded in Italy - but I am missing few sentences from Gloria at the beginning. Could you please send me the translation, and check if the
WHEALBI Website - News

English Version:

www.healbi.eu/kick-off-whealbi-college-project/

French Version:

www.healbi.eu/fr/college-project-vetagroup/