



Co-funded by the
Erasmus+ Programme
of the European Union



**ERASMUS +
HIGHER EDUCATION CAPACITY BUILDING**

Erasmus+ Project

**New curricula in Precision Agriculture using GIS technologies and sensing
data**

(CUPAGIS)

Minutes of the kick-off meeting

Tallinn University of Technology

Tallinn, Estonia

18-19 February 2019

ERASMUS+

Project: New curricula in Precision Agriculture using GIS technologies and sensing data (CUPAGIS)

MINUTES OF THE KICK-OFF CONFERENCE

Tallinn, February 18-19, 2019

Overview of the conference content carried out:

- Presentation of the project coordinator on the current research in the target field of Remote Sensing and Application of Earth and Environment related to precision agriculture
- Presentation of the representative of Algeria on the current research in the field of precision agriculture
- Presentation of European Partners;
- Clarification of project activities and their implementation;
- Establishing of Project Management Board (PMB) and Internal Evaluation Board (IEB);
- Appointment of the regional project coordinator and local coordinators in the Partner Country;
- Presentation of target universities: universities' profiles, existing curricula, and the plans to update the existing curricular and/or to develop new curricula
- Financial management of the grant (based on the Guidelines for the Use of the Grant);
- Workshop on quality assurance system
- Workshop on dissemination and exploitation strategy of the consortium
- Partnership agreements preparation.

A special session was conducted where each consortium partner presented its own view and planned contribution to the project and where the key roles/activities and responsibilities in the project of each consortium partner were determined.

The project plan implementation was discussed in detail. Key activities and expected project results were clarified, such as: organization of project trainings at EU universities and master classes at target universities, purchase and installation of equipment, establishing of PASENSO in the universities of the Partner Country, sustainability and dissemination plan of the project, quality assurance strategy, financial management of the grant, budget expenditures regulations.

The Project Management Board (PMB) and Internal Evaluation Board (IEB) were formed; A regional project coordinator was appointed in the Partner Country Algeria. Also, local coordinators of every partner country university were agreed.

Algerian universities presented the existing curricula of relevant disciplines that are to be updated.

Resolution:

1. Until 21st April 2019 each partner university will:
 - (i) Develop its own internal plan of activities to meet the project's objectives (based on the project's work plan), (ii) establish a working group (min. 5 persons) of the project and appoint a responsible person for each Work package, (iii) send a scan of the adopted plan and the composition of the working group to alexandra.ivanova@ecm-space.de.
 - Compose a list of the faculties/departments involved into the project. Compose a list of stakeholders involved in project activities.
 - Develop a list of criteria for the selection of teachers for trainings in European universities.
 - Assign a responsible person for signing a contract regarding equipment delivery; and another responsible person for licences and new software installation
2. Accept the created Project Management Board (PMB) and Internal Evaluation Board (IEB) (see Table 1, 2 in Appendix).
3. Each consortium participant will send a signed partnership agreement to the Coordinator (TalTech; formerly TTÜ/TUT) until 21st April 2019: 1 scan via email; 3 hard copy (signed and stamped) to TalTech
4.
 - 4.1. Each target university will create its own plan of the dissemination and sustainability of the project based on the "CUPAGIS Dissemination, Sustainability and exploitation strategy" draft, which the partner ECM will develop until 31 March 2019. The plan should deliver the definition of "target groups" and "dissemination channels".
 - 4.2. The plan should be finalized and sent to ECM. Deadline: 21st of April, 2019.
 - 4.3. Recommendations for the dissemination plan:
 - to create a publication (= any type of media that contains information about the project: leaflet, newspaper article, post in the Internet, etc.) plan (i.e., 1 publication every 6 months); publication can be in local or national media channels (newspapers, information leaflets, other print media; TV etc.); on the Website of the university; social media networks (for instance, Facebook, Instagram, Twitter, etc.); every publication should contain a link to the project website www.cupagis.eu; every publication (scan of it if it's printed or link to it in the Internet where this publication is situated) should be sent to alexandra.ivanova@ecm-space.de. Each university should assign a "blogger" who will be responsible for publications.
 - to schedule local meetings for sustainability and dissemination of information about the project (i.e., one event per 3 months); the schedule for each year should be developed by the regional coordinator
 - to develop a list of related universities and non-academic partners involved in the project activity, to create a database of organizations interested in the project;
 - once a year to conduct an information conference about the project inviting local universities and non-academic partners.

5. In the upcoming month (date is flexible and is decided by each of the university), each partner university should conduct a dissemination meeting on project activities for students, teachers and administrative staff of the university incl. top management. Press-release and photos from the event should be sent to alexandra.ivanova@ecm-space.de
6. Internal quality assurance (QA) plan should be developed by each Partner university until 21st April 2019 on the basis of the QA plan of the CUPAGIS project developed by ECM
7. P1-P4 are responsible for the content/teaching materials of curricula. P1-P4 (EU partners) should prepare a list of topics for theoretical and practical/laboratory classes, curricula description for each disciplines incl. ECTS (see Tab. 3 in information management package), recommended teaching materials (literature, text books etc), presentations in .ppt for each of the topics until 30th April 2019. Teaching materials should be sent to alexandra.ivanova@ecm-space.de. Materials will be posted on the project website for downloading by partners.
8. It is planned to hold trainings for the teachers in European universities in 2019-2020 in accordance with the schedule:

Terms (approximately – will be defined)	Hosting university (city, country)	New Modules	Number of participating teachers from each target university*
19 – 29 August 2019, 10 days	Technische Universität Berlin	<p>TUB:</p> <ol style="list-style-type: none"> 1. Start-up initiatives for future farmers 2. Management Marketing and Decision Making in Precision Agriculture 3. Intensive course to leverage acceptance of the new technologies “in-field” <p>CULS:</p> <ol style="list-style-type: none"> 1. Basics of the Precision agriculture 2. Yield sensors for Precision Agriculture 3. Soil physical properties and its measurement 4. Application of Precision Agriculture for crops growing 	3
May – June 2020	Agricultural University Plovdiv	<p>AU:</p> <ol style="list-style-type: none"> 1. Using of SENTINEL 1-2-3 imagery for agricultural field monitoring 	3

		<p>2. Global Navigation Satellite Systems (NAVSTAR, GLONASS, GALILEO, etc)</p> <p>3. Basics of the Precision agriculture – characteristics, technologies, economic efficiency, optimal use of resources</p> <p>TalTech:</p>	
June 2020, 9 days	Czech University of Life Sciences	Will be defined	3

* A larger number of participants is possible by self-financing

Each training session will normally contain a regular coordination meeting.

8.1. Not later than 3 months before the start of trainings, topics of trainings should be agreed between partners. Responsible: hosting university

8.2. Each partner country university should prepare a list of teachers who will participate in the first training 27.05. – 02.06.2019 at Agricultural University Plovdiv, BG until 30.04.2019

9. Each target university will develop a draft of documents for the establishment of PASENSO. The copy of the documentation should be emailed to ECM (alexandra.ivanova@ecm-space.de). Responsible person for PASENSO should be assigned. The documents should be approved by the administration of the universities not later than the 30th of April, 2019.

10. Skype meeting of the project's board (PMB) should be organized approximately every two months. Send contacts of the representatives of PMB (see Table 1 in Appendix) to ECM (alexandra.ivanova@ecm-space.de).

11. The next annual consortium meeting is planned to be held at Université d'Oran1 Ahmed Ben Bella, Oran, Algeria in October-November 2019.

Project coordinator: Prof. Tarmo Soomere

Project Manager: Arnold Sterenharz

Appendix

Table 1. Project Management Board

Consortium CUPAGIS						
Partner #	PIC	Organisation Name / Acronym		City / Country	Contact Person	Email
P1	916122321	Tallinn University of Technology	TalTech	Tallinn, Estonia	Prof. Tarmo Soomere	tarmo.soomere@cs.io.c.ee
P2	999986678	Technische Universität Berlin	TUB	Berlin, Germany	Prof. Brieß/ Elena Eyngorn	elena.eyngorn@tu-berlin.de
P3	999870278	Agricultural University Plovdiv	AU	Plovdiv, Bulgaria	Assos. Prof. D. Atanasov / Prof. Hristina Yancheva	d.atanasov@au-plovdiv.bg rector@au-plovdiv.bg
P4	999912570	Ceska Zemedelska Univerzity v Praze	CULS	Prague, Czech Republic	Prof. F.Kumhála	kumhala@tf.czu.cz
P5	952866018	ECM space technologies GmbH	ECM	Berlin / Germany	Dr. A.Stereharz	Arnold.sterharz@ecm-space.de
P6	998583185	Djillali Liabes University	UDL	Sidi Bel Abbès, Algeria	Prof. A. Kadoun	akadoun@yahoo.com
P7	916115337	Université d'Oran1 Ahmed Ben Bella	UniOran	Oran, Algeria	Prof. S. Balaska / Prof. Y. Lebbah	sbalaska@yahoo.com ylebbah@gmail.com
P8	933417518	Ibn-Khaldoun University Tiaret	UIK	Tiaret, Algeria	Prof. M.Maoutoug	maatoug.moh@gmail.com
P9	950310941	Universite de Mostaganem	UMAB	Mostaganem Algeria	Dr. H.Benoudnine	hbenoudnine@gmail.com
P10	917355482	Ecole Nationale Supérieure d'Agronomie	ENSA	Algiers, Algeria	Prof. Laribi Abdelkader	abdelkader.laribi@edu.ensa.dz a.laribi@ensa.dz
P11	999830023	Ministry of Higher Education and Scientific Research	MESRS	Ben Aknoun, Algeria	Mr. Khecheni Karim	k.khecheni@mesrs.dz

Table 2.
Internal Evaluation Board

Partner #	Organisation Name / Acronym	City / Country	Contact Person	Email
P1	Tallinn University of Technology TalTech	Tallinn / Estonia	Prof. Tarmo Soomere	tarmo.soomere@cs.ioc.ee
P2	Technische Universität Berlin TUB	Berlin / Germany	Elena Eyngorn	elena.eyngorn@tu-berlin.de
P3	Agricultural University Plovdiv AU	Plovdiv, Bulgaria	Prof. Hristina Yancheva	rector@au-plovdiv.bg
P4	Ceska Zemedelska Univerzita v Praze CULS	Prague, Czech Republic	Prof. F.Kumhála	kumhala@tf.czu.cz
P5	ECM space technologies GmbH ECM	Berlin / Germany	Dr. ASterenhartz	Arnold.sterenhartz@ecm-space.de
P7	Université d'Oran 1 Ahmed Ben Bella UniOran	Oran, Algeria	Prof. S. Balaska	sbalaska@yahoo.com
P10	Ecole Nationale Supérieure d'Agronomie ENSA	Algiers, Algeria	Prof. Laribi Abdelkader	abdelkader.laribi@edu.ensa.dz a.laribi@ensa.dz

Table 3.
Regional project coordinator in Partner Country (DZ)

Partner #	Organisation Name / Acronym	City / Country	Contact Person	Email	Partner #
P7	Université d'Oran 1 Ahmed Ben Bella	UniOran	Oran, Algeria	Prof. S. Balaska	sbalaska@yahoo.com

Table 4. Local coordinators in Partner Country Universities

Partner #	Organisation Name / Acronym	City / Country	Contact Person	Email
P6	Djillali Liabes University UDL	Sidi Bel Abbès, Algeria	Prof. A. Kadoun	akadoun@yahoo.com
P7	Université d'Oran1 Ahmed Ben Bella UniOran	Oran, Algeria	Prof. S. Balaska	sbalaska@yahoo.com
P8	Ibn-Khaldoun University Tiaret UIK	Tiaret, Algeria	Prof. M.Maatoug	maatoug.moh@gmail.com
P9	Universite de Mostaganem UMAB	Mostaganem Algeria	Dr. H.Benoudnine	hbenoudnine@gmail.com
P10	Ecole Nationale Supérieure d'Agronomie ENSA	Algiers, Algeria	Prof. Laribi Abdelkader	abdelkader.laribi@edu.ensa.dz a.laribi@ensa.dz