





Global dissemination Report

New Curricula in
Precision Agriculture
Using GIS Technologies
and Sensing Data

ECOLE NATIONALE SUPERIEURE AGRONOMIQUE (ENSA, ALGIERS)



Workshop - UNA



UNA (1/2)

CUPAGIS ENSA animated a workshop, organized by UNA (National Union of Agricultural Engineers), on July 16th, 2020 at 7:30 pm

UNA website : https://www.una.dz/

Workshop link: https://www.una.dz/articles/61/f1abd73f/conference-sur-les-

<u>defis-de-l-agriculture-intelligente-en-algerie/</u>





الاتحاد الوطني للمهندسين الزراعيين National Union of Agricultural Engineers

UNA (2/2)



ينظم ندوة حول:

تحديات الزراعة الدقيقة والذكية في الجزائر واثرما في تطوير الزراعات الواسعة بالمناطق الصحراوية

> اعداد و تقديم : سليم اتسوري ستاذ و باحث بالمدرسة الوطنية العليا للفلاحة -الجزائر



The Challenges of intelligent agriculture and precision agriculture in Algeria and their impact on the development of field crops in arid areas.



Presented by : Dr. Salim ETSOURI CUPAGIS ENSA

N.B: The presentation file included CUPAGIS logo

ERASMUS Days (1/5)

ERASMUS Days...



Our institution participated in the ERASMUS Days event, which took place from 15 to 17 October 2020, with the participation of all ENSA's ERASMUS+ projects. They presented their progress.

ERASMUS Days (2/5)

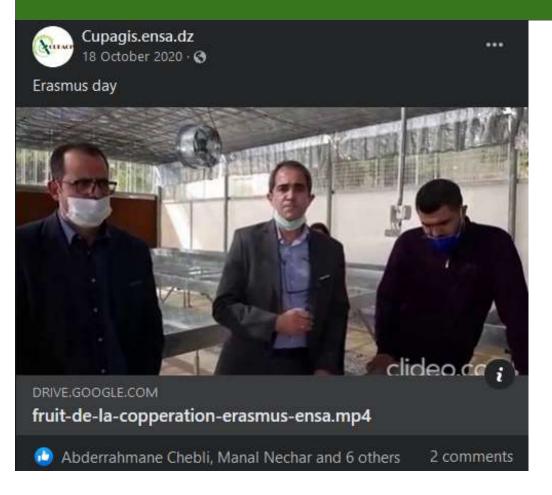
The ENSA coordinator Dr. Abdelkader Laribi also made a presentation of the CUPAGIS project, explaining the objectives and briefly presenting the implemented activities.





ERASMUS Days (3/5)

Dissemination of the ERASMUS Days event on the website of the National Higher School of Agronomy as well as on the Facebook page of our institution and then on the facebook page of the CUPAGIS project on October 18th, 2020.



ERASMUS Days (4/5)

A video presentation of the ERASMUS projects, made by the project coordinators, has been added to our Facebook page on October 18th, 2020.





ERASMUS Days (5/5)

We have also enriched our Facebook page with a short video presentation of the project, made by the coordinator Dr. Abdelkader Laribi during the ERASMUS Day.



Flyer CUPAGIS (1/4)

Flyer CUPAGIS



What we have done:

- CUPAGIS-ENSA Flyer update
- The flyer is now on the ENSA website
- The flyer is on Facebook



Global Dissemination Report – 24th project Month

Flyer CUPAGIS (2/4)

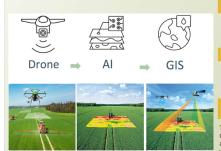
We planned to produce 2 more this year :

- 1st flyer to present the different modules of the Master's program
- 2nd one to present CUPAGIS teaching materials, laboratories and equipment.



Planned Project Outputs

- · Analysis and upgrade of the current curricula according to the recent advances in the target field
- · Develop new curricula incl. learning environment: PAGIS and VCR (Precision Agriculture using GIS Lab and Virtual Classroom)
- Retrain academic teachers in new curricula
- · Conduct master classes and pilot teaching/operation of PAGIS and VCR
- · Establish joint WEB based platform in full ope-
- Established PASENSO with stakeholders support (Precision Agriculture Using Sensing Data Service Office)





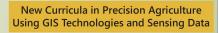




Flyer CUPAGIS (3/4)

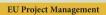












Prof. Tarmo Soomere - Estonia

ENSA Project Coordinator

Dr. Abdelkader Laribi

abdelkader.laribi@edu.ensa.dz

Algeria • Estonia • Bulgaria Czech Republic • Germany

This project has been funded with support from the European Commission. This publication reects the views only of the author, and the Commission cannot be held responsible for any use



Erasmus+ Programme of the European Union

This side of the flyer contains:

- Cover page
- **Planned Project Outputs**
- Logo of the different partners

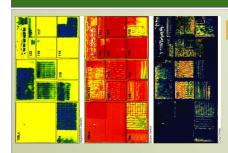


• Dr. Lies Boudhar, GR

• M. Karim Laabassi, GR

• M. Salim Etsouri, GR

• Dr. Réda Delli, GR



Our Partners

CUPAGIS-ENSA Team

• Dr. Abdelkader Laribi, S. Sol, Coordinator

• Dr. Nadjat Benkherbache, P. Végétale

Flyer CUPAGIS (4/4)

DZ Partners

- Université Djillali Liabes
- Université d'Oran1 Ahmed Ben Bella
- Université Ibn-Khaldoun Tiaret
- Université de Mostaganem
- · Ministry of Higher Education and Scientific Research
- SODEA SPA (Agricultural Development Society),





@ Cupagis.ensa.dz



ENSA www.ensa.dz



www.cupagis.eu



Wider objectives

Improve the quality of higher education and enhance its relevance for the labour market and society, the level of competences and skills in HEIs by developing new and innovative education programs; support the modernisation and internationalisation of the HE in precision agriculture in the targeted Universities in Algeria through innovation of two cycles curricula.



- Tallinn University of Technology, EE
- Agricultural University Plovdiv, AU
- Czech University of Life Sciences, CZ
- Technische Universität Berlin, DE
- EXOLAUNCH (ECM Space Technologies GmbH), DE











Cupagis ensa Channel



This side of the flyer contains:

- **CUPAGIS-FNSA Team**
- Our Partners
- Wide Objectives



Press Release (1/3)

PRESS RELEASE

Press Release

Articles in a local Arabic Newspaper

Newspaper Name : Akhbar Elwatane

Publication on February 16th, 2021, page 16

Link: https://akhbarelwatane.net/wp-content/uploads/2021/02/NUM414.pdf

Newspaper Name: Elitihad

Publication on February 18th, 2021, page 6

Link: https://www.elitihadcom.dz/wp-content/uploads/2021/02/2342.pdf



This newspaper is state-run as it has a National distribution

Press Release (2/3)

باستعمال التكنولوجيات المبتكرة

شراكـة بيـن الجَامعـة الجَزائريّـة والأورُوبيّة في مجال الزّراعة الذّكية

أمضت المدرسة الوطنية العليا للفلاحة عقد شراكة في مجال الزراعة الذكية ، باستعمال التكنولوجيات المبتكرة في هذا الميدان ،بالإضافة إلى نُظم المعلومات الجغرافية ، الاستشعار عن بعد ، البيانات الضخمة ، الذكاء الاصطناعي . وتأتي هذه الخطوة ، حسب بيان صادر عن المدرسة المدرسة الوطنية العليا للفلاحة ، تحصلت «أخبار الوطن» على نسخة منه ، «لتعزيز التعاون بين الجامعة الجزائرية والاتحاد الأوروبي ، حيث ستسمح الشراكة لطلبة المدرسة الوطنية العليا للفلاحة بالمشاركة ضمن برنامج (CUPAGIS) التابع لبرنامج أراسموس» .وأشار البيان إلى أن «التكوين في الماستر في الزراعة الذكية يتطلب متابعة المدراسة خلال أربع سداسيات ، ويُخصص السداسي الأخير لإجراء تربص ميداني في مؤسسة عامة أو خاصة ، لتحضير مشروع نهاية التخرج» .ومن جهة أخرى ، يحتوي البرنامج على إحدى عشر شريكا أخرين ، من بينهم خمس جامعات جزائرية تحت وصاية وزارة التعليم العالي والبحث العلمي ، وشريك «سوسيو - اقتصادي» ، بالإضافة إلى جامعات أوربية من ألمانيا وجمهورية التشيك وإستونيا وبلغاريا .



16 صفحة | 20دج | السنة 20 - العدد 414 - الثلاثاء 04 رجب 1442 هـ - 16 فيفري 2021م



This newspaper is also state-run as it has a National distribution

Press Release (3/3)

المدرسة الوطنية العليا للفلاحة شريكا في برنامج CUPAGIS لتثمين القدرات والمهارات في مجال التعليم العالى



التشيك) وأخيرًا جامعة العلوم المدرسة العليا الوطنية للفلاحة، متابعة الدراسة دراسة من قبل الخبراء خلال أربع سداسيات، والهيئات العلمية لإبداء

علی أحد عشر (۱۱) شریکا، من بينهم خمس (05) جامعات جزائرية تحتوصاية وزارة

أيكزو لوانش EXOLOUANCH) GmbH)بأثمانيا، جامعة علوم مليون نسمة في آفاق 2070. ببرنامج CUPAGIS يحتوي الحياة ببراغ (جمهورية

ويجب على الجزائر، أمام هذا لة، و في اطار هذه CUPAGIS LIVE الماسترفي الزراعة الذكية، capteurs aux (Laure 1918) sols، ومن جهة أخرى يجب التندكيب أن الانتبلاف

أعلنت المدرسة الوطنية العليا للفلاحة أنها أصبحت شريكا في برنامج CUPAGIS التابع ليرنامج ERASMUS لتثمين القدرات والمهارات في مجال التعليم العالي CBHE، ويرمى هذاالبرنامج إلى تعزيز التعاون مع الاتحاد الأوروبي والدول الشريكة كالجزائر مثلا، بهدف عصرنة نظام. التعليم العالي وتطوير برامج

يتطلب الوضع الدولي الراهن، هذا النوع من البراميج، بفعل النمو الديمفرافي المتزايد والتغيرات المناخية التي بعر فها العالم، وتُعتبر الحزائر مثالاً حيا عن ذلك، باعتبار أن تعدادها السكاني بلغ 43 مليون نسمة، وسيصل إلى 51 مليون مع حلول سنة 2030 ليبلغ 70 (Consortium) الــخـاص



الخميس 18 فيفرى 2021 الموافق لـ 06 رجــــب 1442



Webinar (1/10)

Webinar

We organized a CUPAGIS webinar (in French)
on January 13, 2021 at 5:00 pm
Google Meet



Google forms for the webinar : https://forms.gle/bELCxuGNiCnyxNa47

Facebook Webinar event: https://www.facebook.com/events/218502543152692

Google Meet link : <u>meet.google.com/pgw-rwtn-hts</u>

Link to the record : soon on our youtube Channel



Webinar (2/10)

How the webinar was prepared?

Step 1 Preparation of the webinar poster

Step 2 Preparation of a webinar registration form

Step 3 Dissemination of the poster and registration form on social networks and also by sending it to ENSA students' emails

Step 4 Sending invitations

Step 5 Launch of the webinar with the Director of ENSA in attendance



Webinar (3/10)

Webinar Program:

- 17h00 Webinar opening Pr. Lakhdar Khelifi (Director of ENSA)
- 17h01 Welcoming address Pr. Mohamed Mefti (Deputy Director of External Relations)
- 17h05 Presentation of the CUPAGIS Project Dr. Abdelkader Laribi (Project Coordinator)
- 17h15 Debates
- 17h20 General information on Precision Agriculture Dr. Salim Etsouri (Project member)
- 17h30 Debates
- 17h35 Introduction to Artificial Vision in agriculture Mr. Karim Laabassi (Project member)
- 17h45 Debates
- 17h50 Closure of the webinar Pr. Lakhdar Khelifi (Director of ENSA)

target audience:

Webinar (4/10)

Graduating ENSA students with a profile corresponding to the project's expectations and who want to join the project. As well as ENSA students in the common core who want to have more information about the CUPAGIS project and at the same time learn about precision agriculture.

2nd target Students from other Algerian universities, especially from the universities of the consortium.

3rd target Audience from the socio-economic sector.



Who was involved / invited?

Webinar (5/10)

- Director of National Higher School of Agronomy (Head of ENSA)
- Deputy Director of Continuing Education and External Relations
- University member of the Consortium (CUPAGIS Teams)
- National Coordinator of the ERASMUS+ Algeria (National Office)





Programme

17h00 - Ouverture du Webinaire - Pr. Lakhdar Khelifi (Directeur ENSA)
17h01 - Mot de bienvenue - Pr. Mohamed Mefti
17h05 - Présentation du projet CUPAGIS - Dr. Abdelkader Laribi
17h15 - Questions et débats
17h20 - Généralités sur l'agriculture de précision - Dr. Salim Etsouri
17h30 - Questions et débats
17h35 - Introduction à la vision artificielle en agriculture - M. Karim Lasbassi
17h50 - Cioture du Webinaire - Pr. Lakhdar Khelifi (Directeur ENSA)

Mercredi 13 Janvier 2021
à 17h00

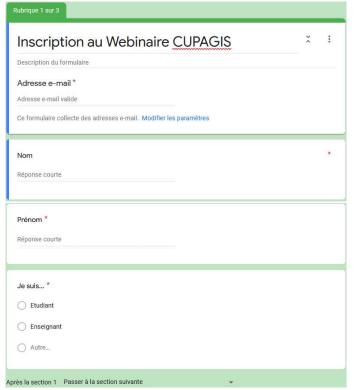
sur Google Meet

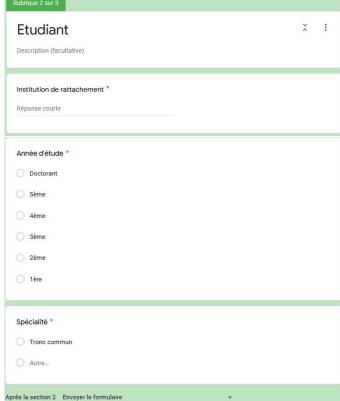
Co-funded by the
Erasmus+ Programus+ Programus+
of the European Union

Webinar (6/10)

Webinar poster







Webinar (7/10)

Registration form





Registration form

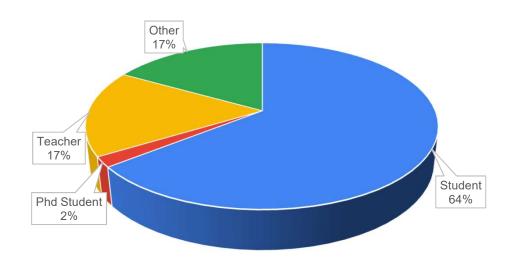
Webinar (8/10)



We had 108 registrations for the webinar



Webinar (9/10)



I am...

Student: ENSA 80%, other universities 20%

Teacher: ENSA 53%

El Tarf university 30% and

Others (Tiaret university - Sidi

Belabbès university)

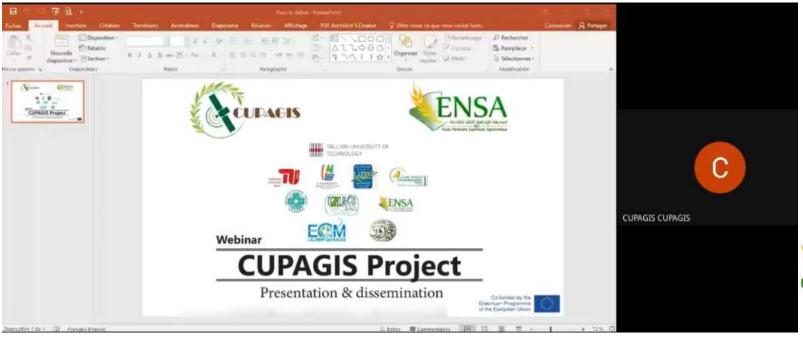
Others : Employee 35% - Engineer 20%

Managers 30%



Webinar (10/10)

Picture of the event (on Google Meet)





YouTube (1/2)

YouTube Channel



YouTube Channel Name : @ CUPAGIS ENSA

Created on January 12, 2021,

Link: https://www.youtube.com/channel/UC7b4i4rojuV8BFM4peqhBTQ/featured





The You Tube Channel of CUPAGIS ENSA will be updated once a month

Facebook (1/6)

CUPAGIS ENSA Facebook Page

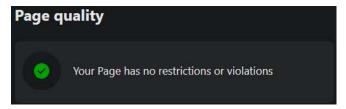


Facebook page Name : cupagis.ensa.dz

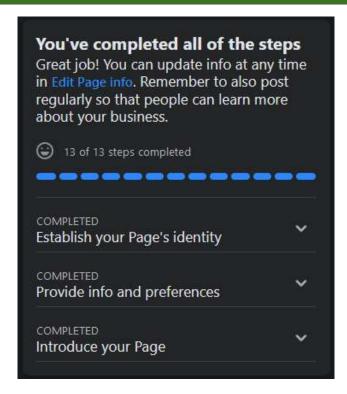
Created on May 19th, 2019,

Link: https://www.facebook.com/ENSA.CUPAGIS.Team









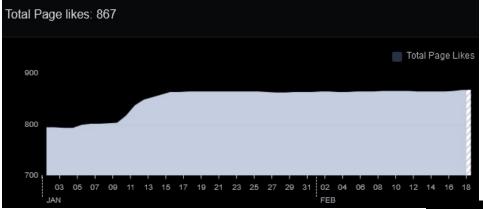
Our page is set up, so we are considered as a credible business page

Facebook (2/6)



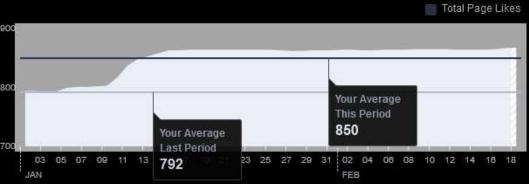
Insights summary for the last 28 days

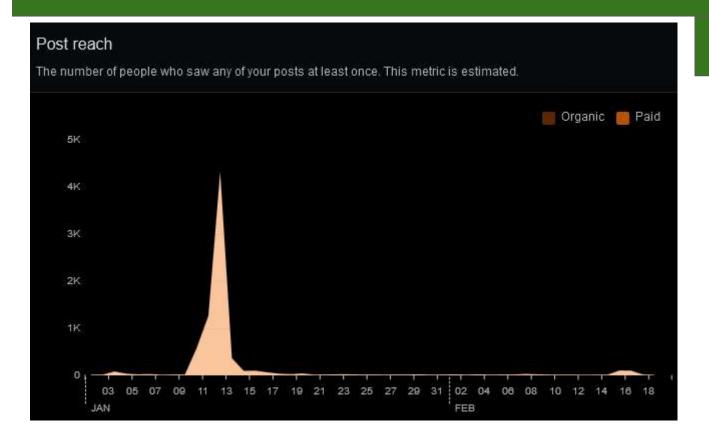




Facebook (3/6)

Total page likes and compared average





Facebook (4/6)

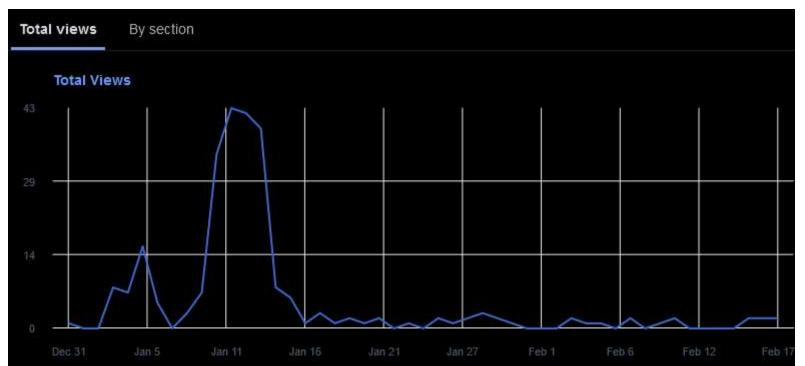
Periodic Post Reach

This pic is corresponding to the webinar period

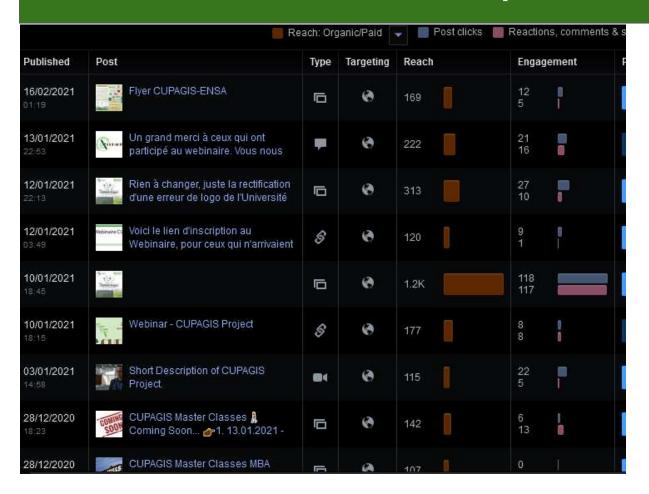


Facebook (5/6)

Periodic total views of the Facebook page







Facebook (6/6)

9 most recent posts published on Facebook



ENSA website (1/3)

ENSA website



RÉPUBLIQUE ALGÉRIENNE DÉMOCRATIQUE ET POPULAIRE MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR ET DE LA RECHERCHE SCIENTIFIQUE

ECOLE NATIONALE SUPÉRIEURE AGRONOMIQUE

KASDI MERBAH

ENSA website : www.ensa.dz

CUPAGIS Section link : http://www.ensa.dz/category/cupagis/

Last update: February 17th, 2021



ENSA website (2/3)

The ENSA website contains all the news about the CUPAGIS project, such as :

- CUPAGIS logos, Prospectus, Booklet and Flyer
- Events actuality: Webinar, Master Classes Agenda, Training
- etc.



CUPAGIS

ENSA website (3/3)



Prospectus CUPAGIS ERASMUS CBHE - ENSA

17 février 2021

Flyer CUPAGIS ENSA - Final... Lire la suite »



Webinaire CUPAGIS

04 février 2021

Cupagis_Webinar-ENSA 13-01-2021... Lire la suite »



TUB (Technische Universität Berlin) Training 19 - 30 August 2019

04 février 2021

... Lire la suite »



Présentation du Booklet CUPAGIS-ENSA

04 février 2021

Booklet Cupagis-ENSA... Lire la suite »



Online Master Classes_CUPAGIS_Agenda 2020 - 2021

04 février 2021

Online Master classes - CUPAGIS_Agenda_Nov20_Jan21... Lire la suite »



Kick_Off Meeting Tallinn 18 - 19 February, 2019

Most last added information to CUPAGIS Section in the institution website



For more details, see links bellow

http://www.ensa.dz

http://www.ensa.dz/category/cupagis/

https://www.facebook.com/EnsaAlger/

http://

https://www.facebook.com/ENSA.CUPAGIS.Team/

https://www.youtube.com/channel/UC7b4i4rojuV8BFM4peqhBTQ/featured







Thank you for you attention!



Dr. Salim ETSOURI

Agro-equipment Engineering,

Rural Engineering Department, ENSA

s.etsouri@ensa.dz

s.etsouri@gmail.com