

isUP-AgrO

WORK PACKAGE: 2

DELIVERABLE: D2.1 Training schools Dissemination vs. 1

Date: 30/11/2024



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1. Executive Summary

This Deliverable describes the different ways in which the Dissemination of the training schools for the technical/academic society, organized in the framework of the WP2 of the isUP-AgrO project, was done.

At the moment, this deliverable is being written, and only one training school was held from 18/11/2024 to 22/11/2024. The number of attendees was 23.

The dissemination was done in different ways:

- Online forms
- Media dissemination
- Personal communication

The active dissemination of this training school has allowed us to reach a higher number of attendees than initially expected and beyond ISOPlexis Centre, reaching participants from the local ecosystem as university, government, and viticulture industry stakeholders.

This successful training school has increased the scientific and technical expertise of participants, strengthened collaborative ties among stakeholders, and set the stage for the effective execution of the research project in the near future.

2. Introduction

The isUP-AgrO project is dedicated to enhancing the capabilities of ISOPlexis by establishing it as a center of excellence in the agricultural sector. To achieve this ambitious objective, the project implements extensive networking activities through Twinning with two leading agricultural research institutes from Italy and Spain. These collaborations are further supported by the involvement of an expert entity specializing in innovation, aimed at strengthening research management practices and fostering sustainable advancements in the field.

Within this context, Work Package 2 - Training School & International Workshops (WP2) focuses on delivering theoretical and practical training through a series of structured school sessions. As part of this effort, the 1st Training School was successfully organized and disseminated at the local level, laying the foundation for future capacity-building initiatives and promoting knowledge transfer among key stakeholders.

2.1. Task 2.2 Training school: Agrosystems and Crops Monitoring

The training school, organized in the framework of task 2.2, was initially foreseen to have 20 trainees, but in the end, 23 trainees attended it.

It was held in month 5, (instead of month 6 as included in the grant agreement) and lasted 1 week. CSIC oversaw the lecture with 2 trainers.

Scope/Description: The training school seeks to perform an accelerated program on recent trends and research advances in agrosystems and crop monitoring, especially related to interactions between crop-soil and crop-other species present in the agrosystems that strengthen its resiliency, and adaptation to new climate constraints, using vineyards as model.

Activities include classroom, laboratory, and field theoretical and practical training of the participants. This program applies to those who seek to improve their knowledge in the area, including researchers and students of the ISOPlexis Centre and the University of Madeira. The school will be open to outside interested stakeholders' technicians as well.

School module structure:

- ✓ Topic 1. Functional agrobiodiversity and agrosystem resilience.
- ✓ Topic 2. Experiment with design and implementation layout.
- ✓ Topic 3. Advanced tools in agrosystems and crop monitoring.
- ✓ Topic 4. Plant-soil interactions.
- ✓ Topic 5. Crop ecophysiology and stress coping.
- ✓ Topic 6: Sensing connected to agriculture.
- ✓ Topic 7: Plant imaging and machine learning.

Other activities included: a guided visit to a vineyard, a traditional Madeiran agrosystems, and team building actions.

2.2. Attendees

A total of 23 individuals registered for the training sessions. Among the 23 participants, 17 were affiliated with the ISOPlexis Centre, reflecting strong institutional engagement. The remaining attendees included one graduate student, one professor from the University of Madeira (UMa), three government technicians, and one stakeholder representing the viticulture industry.

This diverse group of participants contributed to a multidisciplinary environment, fostering a rich exchange of knowledge and perspectives that will enhance the practical applications and outreach of the methodologies discussed during the training.

3. Dissemination of the training school

3.1. Online Forms

29/11/24, 10:42 1º Training isUP-Agro

1º Training isUP-Agro

De 18 a 22 de novembro de 2024, está previsto a 1ª ação de formação na Universidade da Madeira no Campus da Penteada. A formação será ministrada por dois investigadores do IRNAS-CSIC, que é parceiro no projeto isUP-Agro. A formação tem como alvo os investigadores do Centro ISOplexis e assim sendo, haverá limite de vagas para possíveis interessados externos. As vagas serão disponibilizadas no site do centro, através do preenchimento do formulário.

* Indica uma pergunta obrigatória.

Programa

Day	Monday 18/11 - 18h-6:30	Tuesday 19/11 - 18h-6:30	Wednesday 20/11	Thursday 21/11 - 18h-6:30 e 19:15	Friday 22/11 - 18h-6:30
08:00	Arrival of teachers	Fundamentals of irrigation, 1h - Soil physics, Meteorology, Agronomy and Physiology	Field trip - Quinta da Ventosa (Lajes)	New perspectives of the use of water in agriculture, 1.5h	Remote sensing and its application in agriculture, Use of plant sensors in precision agriculture, Application of plant phenology to precision agriculture
09:00	Introduction and visit to irrigation facilities	Strategies of irrigation, 1h	Lunch - 18h*	How do plants respond to the environment? Drought, Water relations and transport in plants	Continuation of the previous lecture
13:30	Practical	Practical	Practical	Practical	Practical
18:00	Return to the use of water in agriculture, 1.5h	Irrigation scheduling, 1h	Return to Quinta da Ventosa (Lajes)	Field experience in plants, Plant energy balance, Feeding like a plant, practical exercises	Practical presentation - Rafael Romero (ISUP)
18:30	Departure	Departure	Departure	Departure	Departure of balances

* Lunch is included in the field trip.

1. Nome *

2. Email *

3. Pretende participar no evento todos os dias? *

Marcar apenas uma oval.

Sim

Não

29/11/24, 10:42 1º Training isUP-Agro

4. Se respondeu não, qual é o dia que não irá participar?

5. Pretende participar na saída de campo e no almoço do dia 20/11? *

Marcar apenas uma oval.

Sim

Não

6. Por favor assinala a questão aplicável abaixo: *

Nota: Comprometemo-nos a garantir a privacidade e proteção dos dados pessoais dos titulares, em conformidade com as melhores práticas e legislação aplicável, incluindo o Regulamento Geral de Proteção de Dados (RGPD). Neste âmbito, Direitos dos Titulares dos Dados tem o direito de obter da responsável pelo tratamento a confirmação sobre o tratamento dos seus dados pessoais, bem como de aceder a esses dados e solicitar informação sobre o tratamento dos mesmos. Tem igualmente o direito de obter o apagamento dos seus dados pessoais. A UMA assume a qualidade de responsável pelo tratamento dos dados pessoais (email).

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https://docs.google.com/forms/d/195V7LQcF0HhNwN4SUUqU5gZ03kHh_SqGzRMRR0/edit 2/3

Figure 1 Online Participation forms

3.2. Media dissemination

This training was successfully publicized in different media channels (for screenshots please see Attachment 1).

✓ Universidad de Madeira sites

- University of Madeira official site:

<https://www.uma.pt/en/noticias/projeto-europeu-isup-agro-unlocking-the-potential-for-agricultural-research-on-an-eu-outmost-region-boosting-isoplexis-centre/850/850/>

- University of Madeira LinkedIn:

https://www.linkedin.com/posts/universidade-da-madeira_projeto-europeu-isup-agro-unlocking-the-activity-7263228964255498240-zmOM/?originalSubdomain=pt

- University of Madeira Facebook:

<https://www.facebook.com/photo/?fbid=1065384275473365&set=a.177422284269573>

- University of Madeira Instagram:

https://www.instagram.com/p/DBGx5IMKIK6/?utm_source=ig_web_copy_link&igsh=MzRIODBiNWFIZA

✓ ISOplexis social media:

- LinkedIn:

<https://www.linkedin.com/feed/update/urn:li:activity:7267847338893713411/?actorCompanyId=103926861>

- Instagram:

https://www.instagram.com/p/DC6dW6oxeta/?img_index=1

✓ isUP-AgrO Social Media

<https://www.linkedin.com/feed/update/urn:li:activity:7263208732367409152/?actorCompanyId=103926861>

3.3. Schedule

Below is an overview of the Training school schedule and some photos of the training school and the field visit.

Table 1 Training School Schedule

1st TRAINING SCHOOL (November 2024)					
Time	Monday 18/11 - Sala 0.57	Tuesday 19/11- Sala 0.57	Wednesday 20/11	Thursday 21/11 - Sala nº20 e nº12	Friday 22/11 - Anfiteatro 7
09:15h	Enrique and António arrival	E.F.) Fundamentals of irrigation, 2 h - Soil physics, Meteorology, Agronomy and Physiology (Task 2.2, Topics 4, 5 and 6)	Field trip - Quinta das vinhas	E.F.) New perspectives of the use of water in agriculture, 1.5 h (Task 2.2, Topic 1; Task 2.3, Topics 1, 2, 3 and 4)	A.D.) Remote sensing and its application in agriculture, Use of plant sensors in precision agriculture, Application of plant physiology in precision agriculture (Task 2.2. Topic 3. Advanced tools in agrosystems and crop monitoring)
10:30h	Coffe break	Coffe break		Coffe break	Coffe break
10:50-13h	Introduction and visit to ISOPlexis facilities	E.F.) Strategies of irrigation, 1 h (Task 2.2, Topic 7; Task 2.3, Topic 2)		A.D.) How do plants respond to the environment? Overview, Water relations and transport in plants (Task 2.2. Topic 5)	Continuation of the previous lecture
13-14h	Lunch	Lunch	Lunch - 14h	Lunch	Lunch
14-17h	E.F.) Terms, symbols and units related to the use of water in agriculture, 1.5h	E.F.) Irrigation scheduling, 3 h (Task 2.2., Topic 3; Task 2.3, Topics 1 and 2)	Return to Funchal	A.D.) Leaf gas exchange in plants, Plant energy balance, Feeling like a plant: practical exercises, (Task	Virtual presentation - Rafael Romero (Zoom)
18:15h	----	----			

E.F. = JOSÉ ENRIQUE FERNÁNDEZ LUQUE
A.D. = ANTONIO DÍAZ ESPEJO

3.4. Photos



Figure 2 Training School Photos

4. Conclusions

This Deliverable represents a significant milestone in the capacity-building efforts within the field of Agrosystems and Crop Monitoring. Through the comprehensive training sessions, participants gained valuable insights into advanced methodologies for monitoring agrosystems, with a particular focus on precision irrigation. The training covered the integration and application of tools such as sensors, probes, and other monitoring technologies, emphasizing their role in optimizing irrigation practices. Participants also explored plant physiological responses to various irrigation regimes and periodicity, enriching their understanding of crop behavior under different water management strategies.

A practical field trip to a vineyard further enhanced the training experience by providing hands-on demonstrations of cutting-edge equipment, including a drone and an Infrared Gas Analyzer (IRGA) from ISOplexis, as well as sensors introduced by trainers from CSIC. This immersive activity not only reinforced theoretical knowledge but also allowed participants to observe real-world applications of the discussed methodologies. Notably, the vineyard is one of the locations for the upcoming implementation of the research project under Work Package 6 (WP6). This visit facilitated preliminary discussions regarding the project's deployment, scheduled to begin in March 2025, laying the groundwork for future collaboration and experimentation.

By integrating theoretical knowledge with practical applications, this training school has successfully advanced the expertise of participants, strengthened collaborative ties among stakeholders, and project partners, and set the stage for the effective execution of the research project in the near future.

4.1. Next steps

Participants will be given a certificate of participation. A survey will also be sent to participants to find out their feedback on the training school and whether they have any comments and/or suggestions for future training schools.

The next steps will focus on the preparation and organization of the upcoming Training School, aligned with Task 2.3: Training School on Smart Irrigation Technologies. This event is scheduled to take place in the last week of January 2025 and will span a duration of one week. The Training School will accommodate up to 20 trainees, ensuring an engaging and focused learning environment.

CSIC will play a central role in delivering the lectures, with two trainers leading the sessions and sharing their expertise in smart irrigation technologies. This initiative aims to build upon the foundational knowledge established in previous activities, equipping participants with advanced skills and practical insights into innovative irrigation practices and technologies.

We are currently in contact with the trainers who will provide the training school and are optimizing the program and are currently awaiting comments from the ISOplexis center team on the program.

Preparatory efforts will prioritize logistical coordination, curriculum development, and the selection of participants to ensure the Training School meets its objectives effectively and continues to contribute to the overarching goals of the project.

5. Annex 1 – Screenshot from website and social media

uma.pt/en/noticias/projeto-europeu-isup-agro-unlocking-the-potential-for-agricultural-research-on-an-eu-outmost-region-boosting-isoplexis-centre/850/850/

isUP-AgrO

Projeto Europeu isUP-AgrO “Unlocking the Potential for Agricultural Research on an EU Outmost Region: boosting ISOplexis centre”

De 18 a 22 de novembro, vai realizar-se na Universidade da Madeira a primeira ação de formação inserida no âmbito do Projeto Europeu isUP-AgrO “Unlocking the Potential for Agricultural Research on an EU Outmost Region: boosting ISOplexis centre”.

A formação será dinamizada por investigadores do Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS), do Consejo Superior de Investigaciones Científicas (CSIC) de Espanha, que é parceiro deste projeto, e tem como público-alvo os investigadores do Centro ISOplexis - Centro de Agricultura Sustentável e Tecnologia Alimentar da Universidade da Madeira. Serão ainda disponibilizadas algumas vagas no website do Centro para outros participantes com interesse em áreas relacionadas com agrossistemas e recursos genéticos.

Ainda no âmbito deste projeto, realizou-se no passado mês de setembro o primeiro *staff exchange* de investigadores do ISOplexis ao IRNAS (Sevilha). Este intercâmbio contou com a participação de Fabrício Macco, Gregório Peleas e Sofia Valente e teve como foco o aprofundamento de técnicas de pesquisa em ecofisiologia de culturas e gestão de stress abióticos, mais concretamente relacionado com stress hídrico.

O Projeto isUP-AgrO “Unlocking the Potential for Agricultural Research on an EU Outmost Region: boosting ISOplexis centre” (https://ria4.inis.gov.br/ria4/numero/101159644-HORIZON-WIDERA-2023-ACCESS-02), é coordenado pela Universidade da Madeira e tem como objetivo tornar o ISOplexis uma referência europeia em investigação em Agricultura Sustentável e Tecnologia Alimentar.

Neste projeto estão envolvidos dois centros de investigação de renome internacional: o IRNAS-CSIC de Espanha, e a Universidade de Parma, em Itália, bem como a participação da empresa portuguesa de inovação Satumtech. Conta ainda com a colaboração e apoio de diversas entidades e parceiros inovadores, sendo de realçar a posição da Universidade da Madeira no âmbito da Estratégia Regional de Especialização Inteligente e de

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- Christmas Celebration: Inauguration of UMa's Community Christmas Tree
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- Uma has already submitted a request for the Madeira Wine traditions to be included in the National Inventory of Intangible Cultural Heritage
- Exhibition “VOLUME! Ceci n'est pas une IA” Visual Arts Laboratory 2
- University of Madeira welcomes around 30 researchers under the Hawking Project
- Staged Museum Visit “Seeds of Change”

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No dia 20, a ação incluirá uma visita a uma vinícola na região da Calheta. Durante essa atividade prática, pesquisadores do Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS - CSIC) irão demonstrar técnicas e metodologias de monitoramento que serão aplicadas no projeto de investigação.

O Projeto isUP-AgrO “Unlocking the Potential for Agricultural Research on an EU Outmost Region: boosting ISOplexis centre” (https://ri4.inis.gov.br/ria4/numero/101159644-HORIZON-WIDERA-2023-ACCESS-02), é coordenado pela Universidade da Madeira e tem como objetivo tornar o ISOplexis uma referência europeia em investigação em Agricultura Sustentável e Tecnologia Alimentar.

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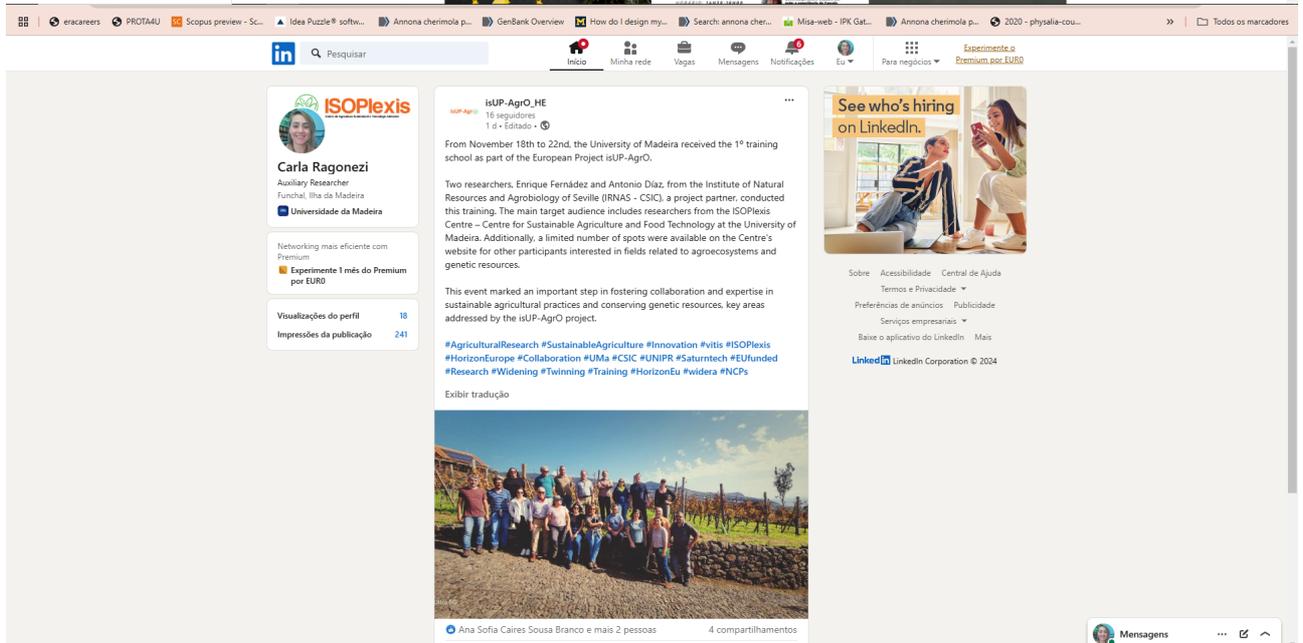
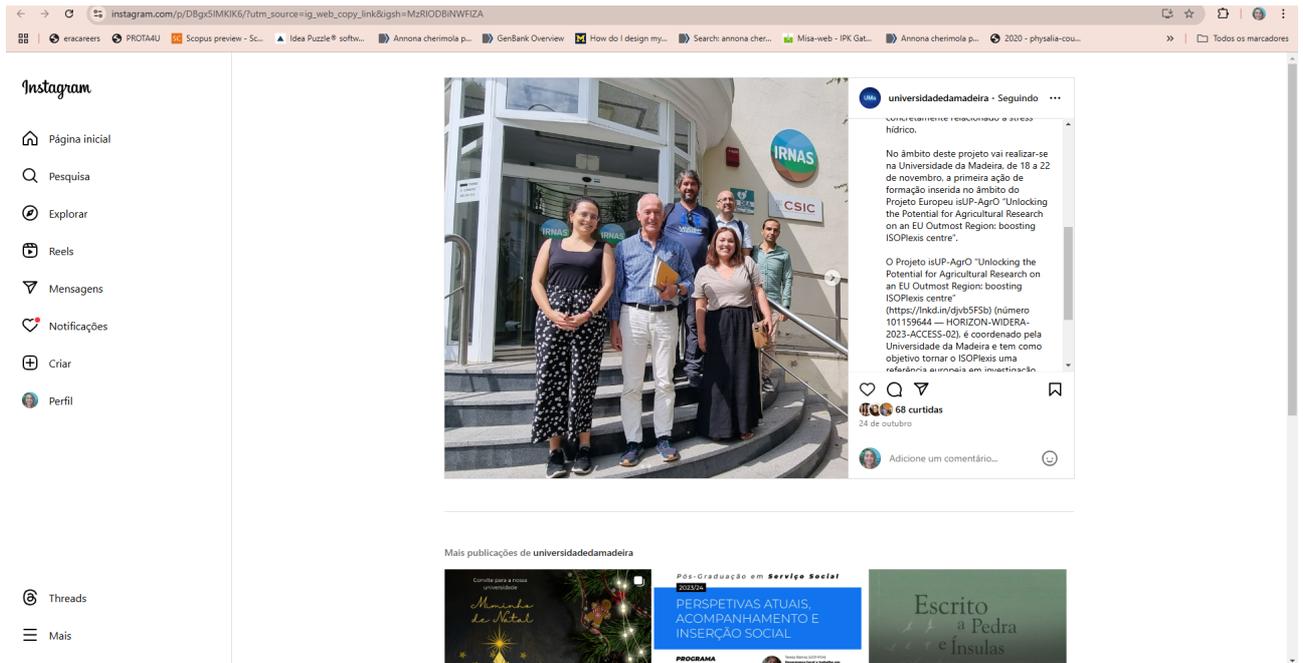
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De 18 a 22 de novembro, a Universidade da Madeira recebeu a 1ª Treino no âmbito do Projeto Europeu isUP-Agro. Esta iniciativa teve como foco o avanço do conhecimento e a colaboração em agroecossistemas e recursos genéticos. A formação foi conduzida por dois renomados investigadores, Enrique Fernández e Antonio Díaz, do Instituto de Recursos Naturais e Agrobiologia de Sevilla (IRNAS - CSIC), parceiros do projeto. Os principais participantes foram investigadores do Centro ISOPlexis - Centro para a Agricultura Sustentável e Tecnologia Alimentar da Universidade da Madeira. Um número limitado de vagas adicionais foi disponibilizado no site do Centro.

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