CIHEAM BARI

ADVANCED SPECIALIZED COURSE

PRECISION AGRICULTURE FOR THE MEDITERRANEAN REGION

Precision Agriculture is a management strategy which takes into account temporal and spatial variability to improve sustainability of agricultural production.

BENEFICIARY COUNTRIES:

Albania, Algeria, Bosnia and Herzegovina, Egypt, Jordan, Kenya, Kosovo, Lebanon, Libya, Macedonia, Morocco, Palestine, Tunisia.

PARTICIPANTS:
Up to **18**

14 FULL SCHOLARSHIPS

DURATION:

8 WEEKS
12 April- 8 June 2023

LOCATION:

CIHEAM Bari
Italy

LEARNING OUTCOMES:

A multiscale (at landscape and farm level) and multisectoral approach.

Relevant methodologies and technologies to apply spatial and temporal decision making.

Strengths and limitations with reference to the country' cropping environment.

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PRECISION AGRICULTURE FOR THE MEDITERRANEAN REGION

CIHEAM Bari is organizing an advanced specialized course in 'Precision Agriculture for the Mediterranean Region' to train professionals from ministries and producer associations from Mediterranean countries with basic knowledge on Information Technology.

The course covers the main technological applications for Precision Agriculture with a multiscale and multisectoral approach, providing the basics on processes and tools (e.g., IOT, remote sensing, GIS, modelling) that are integrated in spatial and temporal Decision Support Systems (DSSs).

PROGRAMME:

✔ **Unit 1. Introduction: a multiscale and multisectoral approach** - General concepts; data collection processes, methods & tools. Opportunities, applications and constraints. Main technologies applied in different domains of Precision Agriculture.

✔ **Unit 2. Measurement & interpretation of environmental data at territory and farm scale** - Spatial and temporal variability associated with all aspects of agricultural production: acquisition and processing of environmental data using several methodologies and technological tools.

✔ **Unit 3. Spatial and Temporal Decision Support Systems** - Environmental data automatically organized, interpreted and integrated with forecasting models in spatial and temporal DSSs for recommending the most appropriate agronomical actions to respond to crop needs.

✔ **Unit 4. Profitability: an economic approach** - The economic aspects of Precision Agriculture through planning, evaluation, monitoring and development of actions from traditional farming systems to evolved systems.

✔ **Unit 5. Project** - Project preparation simulating different Precision Agriculture scenarios.

INTERNATIONAL CLOSING WORKSHOP
A workshop with high-level decision makers (country authorities), experts and representatives of producer associations, companies, and donors, where participants will present their projects for a final evaluation.

FOR MORE INFORMATION PLEASE CONTACT:

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