



Climate Smart WATER Management and Sustainable
DEvelopment for Food and Agriculture in East Africa

A2.2 Training and Capacity Building Course

Training Course Water, Soil, and Crop Management in a Climate-Smart Agriculture

**1st Module - Principles of the Best Management
Practices and Innovations**

11-16 December 2023 - CIHEAM Bari (Italy)
Mediterranean Innovation Hub

Programme



Funded by
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Sunday 10th December

Arrival of participants from Egypt, Ethiopia, and Kenya*.

*Participants from Sudan will attend the training Module online.

Monday 11th December

07.00 - 08.30	Breakfast at the hotel
08.40 - 08.50	Transfer to CIHEAM Bari Campus "Cosimo Lacirignola"
09.00 - 09.30	<p>Welcome of participants by:</p> <ul style="list-style-type: none"> • Biagio Di Terlizzi - Deputy Director of CIHEAM Bari • Claudio Bogliotti - CIHEAM Bari, DESIRA Programme Coordinator
09.30 - 10.00	<p>Presentation of the training Course and field visits</p> <ul style="list-style-type: none"> • Gaetano Ladisa - CIHEAM Bari Scientific Administrator & WATDEV scientific team leader • Silvia Lecci - CIHEAM Bari, Member of WATDEV Coordination team
10.00 - 10.30	Presentation of the participants
10.30 - 11.00	<p>Soil health: Manuring and Crop rotation</p> <ul style="list-style-type: none"> - Fundamentals of Soil properties (Texture, structure, soil organic matter and soil fertility, soil water retention) and associated ecosystem services. <p>Lecturer: Pandi Zdruli - Soil Scientist (CIHEAM Bari)</p>
11.00 - 11.15	Coffee break
11.15 - 13.30	<p>Soil health: Manuring and Crop rotation</p> <ul style="list-style-type: none"> - Fundamentals of Soil properties (Texture, structure, soil organic matter and soil fertility, soil water retention) and associated ecosystem services. <p>Lecturer: Pandi Zdruli - Soil Scientist (CIHEAM Bari)</p>
13.30 - 14.30	Lunch at CIHEAM-Bari canteen
15.00 - 16.00	<p>Soil health: Manuring and Crop rotation</p> <ul style="list-style-type: none"> - Soil conservation techniques - Production of quality manure <p>Lecturer: Pandi Zdruli - Soil Scientist (CIHEAM Bari)</p>
16.00 - 16.15	Coffee break
16.15 - 17.30	<p>Soil health: Manuring and Crop rotation</p> <ul style="list-style-type: none"> - Crops selection - Rotations (examples) <p>Lecturer: Pandi Zdruli - Soil Scientist (CIHEAM Bari)</p>
17.30 - 18.00	Tour of the CIHEAM-Bari Campus
18.00 - 18.30	Transfer to Federiciano Hotel
	Free dinner

Tuesday 12th December	
07.00 - 08.30	Breakfast at the hotel
08.30 - 08.50	Transfer to CIHEAM Bari Campus "Cosimo Lacirignola"
09.00 - 11.00	<p>Improved seeds</p> <ul style="list-style-type: none"> - Fundamentals of seeds selection. - Improved-quality seeds production. <p>Lecturer: Domenico Pignone - Genetist (CNR)</p>
11.00 - 11.15	Coffee break
11.15 - 13.30	<p>Improved seeds</p> <ul style="list-style-type: none"> - Awareness on use improved seeds. <p>Lecturer: Domenico Pignone - Genetist (CNR)</p>
13.30 - 14.30	Lunch at CIHEAM-Bari canteen
15.00 - 16.00	<p>Improved seeds</p> <ul style="list-style-type: none"> - Role of farmers organizations on the use of quality seed <p>Lecturer: Domenico Pignone - Genetist (CNR)</p>
16.00 - 16.15	Coffee break
16.15 - 17.30	<p>Improved seeds</p> <ul style="list-style-type: none"> - Role of farmers organizations on the use of quality seed <p>Lecturer: Domenico Pignone - Genetist (CNR)</p>
18.00 - 18.30	Transfer to Federiciano Hotel
19.30	Transfer from Federiciano Hotel to Bari city centre
20.00 - 23.30	Social dinner in Bari city centre

Wednesday 13th December

07.00 - 08.30	Breakfast at the hotel
08.30 - 08.50	Transfer to CIHEAM Bari Campus "Cosimo Lacirignola"
09.00 - 11.00	<p>Agroforestry & Intercropping</p> <ul style="list-style-type: none"> - Role of vegetation in soil protection (erosion control, windbreaks, water retention, associated ecosystem services). <p>Lecturer: Elaine Springgay – Forestry Officer (FAO)</p>
11.00 - 11.15	Coffee break
11.15 - 13.30	<p>Agroforestry & Intercropping</p> <ul style="list-style-type: none"> - Agroforestry and intercropping management (species selection, site preparation, sowing, seedling, propagation material and forest nurseries, maintenance). <p>Lecturer: Elaine Springgay – Forestry Officer (FAO)</p>
13.30 - 14.30	Lunch at CIHEAM-Bari canteen
15.00 - 16.00	<p>Agroforestry & Intercropping</p> <ul style="list-style-type: none"> - Agroforestry and intercropping management (species selection, site preparation, sowing, seedling, propagation material and forest nurseries, maintenance). <p>Lecturer: Elaine Springgay – Forestry Officer (FAO)</p>
16.00 - 16.15	Coffee break
16.15 - 17.30	<p>Agroforestry & Intercropping</p> <ul style="list-style-type: none"> - Community skills for agro-forestry management <p>Lecturer: Elaine Springgay – Forestry Officer (FAO)</p>
18.00 - 18.30	Transfer to Federiciano Hotel
	Free dinner

Thursday 14th December	
07.00 - 08.30	Breakfast at hotel
08.30 - 08.50	Transfer to CIHEAM Bari Campus "Cosimo Lacirignola"
09.00 - 11.00	<p>Water Users' Association (WUA)</p> <ul style="list-style-type: none"> - Introduction to the course - Water use efficiency (definition and case-study) <p>Lecturer: Nicola Lamaddalena - Hydraulic Engineer (CIHEAM Bari)</p>
11.00 - 11.15	Coffee break
11.15 - 13.30	<p>Water Users Association (WUA)</p> <ul style="list-style-type: none"> - Management and Design-for-Management of irrigation schemes. - New Technologies and Automation of irrigation for a better operation. - Irrigation Delivery Schedules. <p>Lecturer: Nicola Lamaddalena - Hydraulic Engineer (CIHEAM Bari)</p>
13.30 - 14.30	Lunch at CIHEAM-Bari canteen
15.00 - 16.00	<p>Water Users' Association (WUA)</p> <ul style="list-style-type: none"> - Water governance (conflict on resource use, equitable water allocation). - Participatory Irrigation Management (PIM) <p>Lecturer: Nicola Lamaddalena - Hydraulic Engineer (CIHEAM Bari)</p>
16.00 - 16.15	Coffee break
16.15 - 17.30	<p>Water Users' Association (WUA)</p> <ul style="list-style-type: none"> - Market access (marketing). <p>Lecturer: Nicola Lamaddalena - Hydraulic Engineer (CIHEAM Bari)</p>
18.00 - 18.30	Transfer to Federiciano Hotel
	Free dinner

Friday 15th December	
07.00 - 08.00	Breakfast at hotel
08.15 - 08.30	Transfer to CIHEAM Bari Campus "Cosimo Lacirignola"
08.30 - 10.00	Travel to Consorzio di Bonifica di Capitanata headquarter Briefing on the field trip - Nicola Lamaddalena - Hydraulic Engineer (CIHEAM Bari)
10.00 - 12.30	Arrival to the Irrigation scheme District 10 managed by the Capitanata Consortium Meeting with the Director of the Agricultural Dept. of the Capitanata Consortium Presentation of Technical and Institutional aspects related to the Capitanata Consortium, including new technologies and automations. Lecturers: Luigi Nardella - Agronomist (Consorzio Bonifica Capitanata) and Nicola Lamaddalena - Hydraulic Engineer (CIHEAM Bari)
12.30 - 14.30	Transfer to restaurant and lunch
14.30 - 15.30	Transfer to Rignano Garganico (FG)
15.30 - 17.00	Visit to Consorzio di Bonifica Montana del Gargano bio-engineering interventions in Rignano Garganico Lecturers: Giovanni Russo - Forestry officer (Consorzio Bonifica Gargano) and Gaetano Ladisa - Forestry expert (CIHEAM Bari)
17.00 - 19.00	Transfer to CIHEAM Bari Campus / Federiciano Hotel
	Free dinner

Saturday 16th December	
07.00 - 08.30	Breakfast at hotel
08.40 - 08.50	Transfer to CIHEAM Bari Campus "Cosimo Lacirignola"
09.00 - 11.00	<p>Biophysical and socioeconomical sustainability of BMPs</p> <ul style="list-style-type: none"> - Fundamentals of sustainability <p>Lecturer: Moses Odeke - Technical officer (ASARECA)</p>
11.00 - 11.15	Coffee break
11.15 - 13.30	<p>Biophysical and socioeconomical sustainability of BMPs</p> <ul style="list-style-type: none"> - Sustainability indicators/indices - Techniques for feasibility study <p>Lecturer: Moses Odeke - Technical officer (ASARECA)</p>
13.30 - 14.30	Lunch (at CIHEAM-Bari canteen)
15.00 - 16.00	<p>Techniques for feasibility study</p> <ul style="list-style-type: none"> - Practical exercise: feasibility study on the implementation of BMPs in the 4 pilot areas <p>Lecturer: Moses Odeke - Technical officer (ASARECA)</p>
16.00 - 16.15	Coffee break
16.15 - 18.00	<p>Techniques for feasibility study</p> <ul style="list-style-type: none"> - Practical exercise: feasibility study on the implementation of BMPs in the 4 pilot areas. <p>Lecturer: Moses Odeke - Technical officer (ASARECA)</p>
18.30 - 19.00	Transfer to Federiciano Hotel
	Free dinner
Sunday 17th December	
Departure of participants	