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DELLE PRODUZIONI
ALIMENTARI



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CONSORZIO
PER LA SAPONARIA
DELLA CAPITANATA



Regione Puglia

PB4

**Mediterranean Agronomic
Institute of Bari (CIHEAM
Bari)**

IR2MA - Equipment

WP5

D5.3

**Interreg V- A
Greece-Italy
Programme
2014 2020**

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IR2MA

**Large Scale Irrigation
Management Tools for
Sustainable Water
Management in Rural
Areas and Protection
of Receiving Aquatic
Ecosystems**

Subsidy Contract No: I1/2.3/27

Project co-funded by
European Union, European Regional
Development Funds (E.R.D.F.) and by
National Funds of Greece and Italy

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Partners



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PB1/LB UNIVERSITY OF IOANNINA - Research Committee (Uoi) <http://www.rc.uoi.gr/>

PB2 REGION of EPIRUS (ROE) <http://www.php.gov.gr/>

PB2 ISTITUTO SCIENZE DELLE PRODUZIONI ALIMENTARI (ISPA/CNR) <http://www.ispacnr.it/>

PB4 CIHEAM - ISTITUTO AGRONOMICO MEDITERRANEO – BARI (IAMB) <http://www.iamb.it/>

PB5 CONSORZIO PER LA BONIFICA DELLA CAPITANATA (CBC) <http://consorzio.fg.it/>

Associated partners

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IR2MA - Equipment

WP 5

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Introduction

This report lists the equipment that was purchased by PB4 (Mediterranean Agronomic Institute of Bari) in the framework of the project (Table 1). The IT hardware and software included fully encapsulated Soil Measurement Probes equipped with dataloggers, software for advanced data interpretation, and an installation kit. Additionally, one GPS device, one laptop, and one drone were purchased within this activity. In table 1 the equipment is categorized by WP and Deliverable.

Table 1. List of equipment of PB4.

WP	Del.	Type	Brief Description		Quantity
WP5	D5.3	IT hardware and software	Measurement Probe - Multilevel probe with data transmission system: Fully encapsulated Soil Measurement Probe, 60cm, with moisture, salinity & temperature sensors (x10); Programming cable for probes, Data Transmission System Module; Software for advanced data interpretation; Installation kit for Probes; Installation drill; Extraction kit	Fully encapsulated Soil Measurement Probe - Multilevel probe with data transmission system: Fully encapsulated Soil Measurement Probe, 60cm,	10
				Data Transmission System Modules;	10
				Drill & Drop probe steel installation and extraction kit	1
				Software for advanced data interpretation;	1
WP5	D5.3	IT hardware and software	Portable computer Notebook HP 15,6 ", I5, 500 GB, 4GB RAM E WINDOW license SERVER 2016 STD		1
WP5	D5.3	IT hardware and software	Drone DJI MAVIC 2 PRO with 10-bit 4K HDR support, Hasselblad L1D-20c camera and a big 1-inch CMOS sensor		1
WP5	D5.3	IT hardware and software	Garmin Montana 680 Portable GPS, 4 "Touch Screen, 8 MP Camera, Black		1

WP5: D5.3

D5.3. Soil Measurement Probes

In the framework of this deliverable hardware and software items were purchased to support the applied research activities. A total of ten (10) Sentek Drill & Drop sensors equipped with data loggers and Sentek Drill & Drop Probe Steel Installation Kit were purchased to support soil and water quantity and quality audits of agricultural systems. Sentek Drill & Drop™ soil measurement probes were used to conduct soil Water Content (SWC), Volumetric Ion Content (VIC), and soil temperature (ST) measurements.



Fig. 1. Soil measurement probes equipped with data loggers, Drill & Drop probe steel installation kit, farm installation, and software license.

D5.3. HP laptop

An HP laptop (Fig. 2) was purchased for the project management and data collection to reporting in selected agricultural systems. The PC was used also in real-time data collection and computer-based analysis from IRRIMAX



Fig. 2. HP notebook.

D5.3. Drone DJI MAVIC 2 PRO

Drone DJI MAVIC 2 PRO (Fig. 3) was used to carry out specialized inspections by providing visible footage to monitor site conditions and installed sensors.



Fig. 3. DJI Mavic 2 pro drone.

D5.3. Garmin Montana 680 Portable GPS

The field activities were conducted using Handheld GPS Receivers concerning Garmin Montana 650 GPS receivers (Fig. 4). The GPW was used to take photos and record exact geographic coordinates/locations. It was useful for validation and reconnaissance survey.



Fig. 4. Garmin Montana 680 Portable GPS.

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