

ITALY

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I4ALL

TRAINING IN INNOVATIVE IRRIGATIONS,

destined to: small farms and farmers, medium farms and farmers, workers in agriculture, workers in irrigation, water-masters, and also to all which desire practical, consistent knowledge and skills in irrigation.

THE TRAINING IS ACHIEVED ON THE BASIS OF 36 LESSONS
IN ADVANCED IRRIGATIONS DEVELOPED AND PRESENTED IN:

THE HANDBOOK OF THE INNOVATIVE IRRIGATIONS FOR ALL,

Handbook achieved inside the I4ALL Project,

**of the Leonardo da Vinci Programme
of the EU COMMISSION.**



*We, all, have the belief, that the water, soil, sun, energy, labor, the
fruits of the earth, and also, irrigation well-conducted, are sacred.
In our time, of climate changing, the nature is necessary to be helped.
We combat for helping, through irrigation, the nature.*

The Project Title:

“Advanced Edutainment based VET / eVET products, destined to the large amount of farmers and to disadvantaged: slow learners, poor people, and focused to innovative training content, procedures, best practice & equipment, for irrigation”.

**The project and the Project’s Handbook:
Innovative irrigation for all was developed by:**

**(P1) UCO, University of Cordoba, Faculty of Agriculture Cordoba, Spain,
(P2) UNINA, University of Naples, Department of Agriculture, Naples, Italy,
(P3) USAMV, University of Agronomy Sciences and Veterinary Medicine, Bucharest, Romania
(P4) CRA, ACM, The Agricultural Research Council, Research Centre for Agricultural Crops
and Mediterranean Crops, Acireale, Italy,
(CO & P0) IPA SA, Research Organization, Bucharest Romania**

The Pilot Courses were presented by: **(P3) USAMV, (P4) The Chamber of Commerce, Industry and Agriculture Giurgiu, (P7) The Agricultural College Sandu Aldea, Călărăsi, Romania, (P8) The Agricultural College Viaceslav Harnaj, Bucharest, Romania, (P9) The Faculty of Agriculture and Horticulture, Craiova, Romania, (CO & P0) IPA SA, Research Organization, Bucharest Romania**

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Between the advantages created by the project, project’s Handbook: INNOVATIVE IRRIGATION FOR ALL, and project’s courses are:

- The accomplishment of knowledge in advanced irrigations,**
- The growing of the irrigation efficiency,**
- The growing of the yields and of the yields’ quality. The growing of the farms’ gains and of the crops.**
- The water saving, energy saving, labor saving, soil saving.**
- The avoidance of mistakes and errors in irrigation.**
- The receiving of the training materials and of the Acknowledgements about the accomplished qualification, and other.**

The Table with the lessons (initial titles) is the following:

LESSON NO	FIELD	THE LESSON TITLE	AUTHORS
1 / (1) AeL (1.1) (1.2)	PART 1 THE HANDBOOK’S GUIDE & THE PRESENTATION OF THE ESSENTIAL & GENERAL INFORMATION	“Diamonds, Gold and Platinum Secrets in Irrigation”. THE HANDBOOK GUIDE AND THE PRESENTATION OF THE ESSENTIAL & NECESSARY GENERAL INFORMATION IN IRRIGATION FOR USER	Univ. Prof. Dr. Eng., Principal Scientist GHEORGHE MINCU SANDULESCU, Principa Scientist Eng. MARIANA BISTRAN (P0)
2 / (2)	PART 2 THE HUMAN PROTECTION IN IRRIGATION ACTIVITIES	THE HUMAN & THE WORK PROTECTION IN IRRIGATION ACTIVITIES. PROTECTION TO DANGERS. THE ELECTROSECURITY. BEST PRACTICES & HOW TO, GUIDE	Univ. Prof. Dr. Eng., Principal Scientist GHEORGHE MINCU SANDULESCU, Principa Scientist Eng. MARIANA BISTRAN (P0)



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3/ (3)	PART 3 WATER & SOILS IN IRRIGATION WATER & SOILS PROTECTION IN / WITH IRRIGATION PROCESSES WATER & SOILS PROTECTION AGAINST FERTILIZERS, PESTICIDES, SALINISATION. THE PERSPECTIVES OF THE RESIDUAL WATER USING IN IRRIGATION.	(WATER CHECK) THE WATER QUALITY FOR IRRIGATION & THE INNOVATIVE ACCOMPLISHMENTS FOR THE WATER QUALITY FOR IRRIGATION. & THE WATER QUALITY CHECK BEST PRACTICES & HOW TO, GUIDE	Prof.GERARDO SEVERINO, Prof.GERARDO TORALDO, Prof.GUIDO D'URSO (P2)
4/ (4)		(WATER PROTECTION) THE WATER QUALITY FOR IRRIGATION THE WATER & THE SOILS ADVANCED PROTECTION AGAINST THE NEGATIVE ACTIONS OF NUTRIENTS / FERTILIZERS & PESTICIDES, OTHER SUBSTANCES. BEST PRACTICES & HOW TO, GUIDE	Prof.GERARDO SEVERINO, Prof.GERARDO TORALDO, Prof.GUIDO D'URSO (P2)
5 / (5)		(WATER PROCESSING FOR IRRIGATION) THE WATER QUALITY FOR IRRIGATION THE INNOVATIVE ACCOMPLISHMENTS OF THE WATER QUALITY FOR IRRIGATION. THE WATER PREPARATION & PROCESSING FOR IRRIGATION. THE GROUNDWATER ADVANCED PROTECTION AT IRRIGATION. BEST PRACTICES & HOW TO, GUIDE	Prof.GERARDO SEVERINO, Prof.GERARDO TORALDO, Prof.GUIDO D'URSO (P2)
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7 / (7)		SOILS PROTECTION AGAINST THE SALINISATION. THE SALINIZATION PREVENTION. THE ADVANCED DESALINISATION PROCEDURES BEST PRACTICES & HOW TO, GUIDE	Univ. Prof. Dr. Eng. MIHAI SORIN CAMPEANU, Conf. Dr. Eng. DANIELA BURGHILA, Conf. Dr. Eng. MIHAIL GIDEA, Conf. Dr. Eng. TUDOR SCHIOPU, Drd. Eng. JENI VERONICA TIU (P3)
8/ (8)		DETERMINATION OF THE CROP WATER NEEDS ACCORDING TO CROP TYPE, CLIMATE, SOIL CONDITIONS AND IRRIGATION METHODS. BEST PRACTICES & HOW TO, GUIDE	Professor Dr., President of Real Academia de Ingenieria ELIAS FERERES CASTIEL MSc Researcher CARMEN RUZ ORTIZ, PhD Researcher MARGARITA GARCIA VILA MSc Researcher MANUEL MORALES PRIEGO (P1)
9/ (9)		ASSESSMENT OF IRRIGATION EFFICIENCY AND OF DISTRIBUTION UNIFORMITY FOR VARIOUS IRRIGATION METHODS. BEST PRACTICES & HOW TO, GUIDE	Professor Dr., President of Real Academia de Ingenieria ELIAS FERERES CASTIEL MSc Researcher CARMEN RUZ ORTIZ, PhD Researcher MARGARITA GARCIA VILA MSc Researcher MANUEL MORALES PRIEGO (P1)
10/ (10)	USING PACKAGES 1 AND 2, GUIDE-LINES FOR PERFORMANCE EVALUATION OF EXISTING IRRIGATION PRACTICES. BEST PRACTICES & HOW TO, GUIDE	PhD Researcher MARGARITA GARCIA VILA, Professor ELIAS FERERES CASTIEL, MSc Researcher CARMEN RUZ ORTIZ MSc Researcher MANUEL MORALES PRIEGO (P1)	
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Thank You for your attention !

**We please you to be so kind and to send us, all your feedbacks,
comments, remarks at the email address:
san@ipa.ro for the project I4ALL**

**in the attention of
Gheorghe Mincu Săndulescu, Univ. Prof. Dr. Eng.
&
Mariana Bistran, Principal Scientist**