

FAWIRA PROJECT IMPLEMENTATION



Appendix to Final Project Report

Website : <http://www.fawira-project.eu>
Blog/Forum : <http://www.fawira-project.eu/blog/>

Mars 2015

Table 1 – Relevant contacts established during the implementation of the project (2012-2014). 1/3

**Ministère de l'industrie et de la promotion des investissements
(Direction de la Wilaya de Blida)**

Mme Baya Hariouk. Mail : BHERIOUK@yahoo.fr

Ministère de l'Agriculture et du Développement Rural (MADR)

Mme Hamana Korichi. Mail : likidz@yahoo.fr

Mr. Skander Mekersi. Mail: smekersi@gmail.com

**Direction de la Recherche Scientifique et du Développement
technologique (DGRSDT/Ministère de l'Enseignement Supérieur et de la
Recherche Scientifique, MESRS)**

Mme Ferial Souami. Mail: feryel.souami@nasr-dz.org

Mr. Belkada Rachid. Mail : rasheed.dgrsdt@gmail.com

Agence Nationale de Soutien à l'Emploi des Jeunes (ANSEJ)

Mme Kadri Nawel. Email : nawel@yahoo.fr

**Agence Nationale de la Valorisation de la Recherche et du
développement technologique (ANVREDET)**

Pr. Halliche Dalila. Mail : dhalliche@yahoo.fr

Mr. Fragua Rabah. Mail fragarabah@yahoo.fr

Bureau National des Etudes pour le Développement Rural (BNEDER)

Mr. Salah Bey Aboud. Mail: bneder108@gmail.com

Centre de développement des énergies renouvelables (CDER)

Mlle Aziza Madjda. Mail : m.aziza@cder.dz

**Centre National Recherche et Développement de la pêche et de
l'aquaculture (CNRDPA)**

Mme Hidour Imene. Mail : hidour@gmail.com

**Centre de Recherche en Economie Appliquée pour le Développement
(CREAD)**

Mr. Lazreg M. Mail: lazreg.messaoud@yahoo.fr

Ecole Nationale Polytechnique (ENP)

Pr. Stihi Mohamed. Mail: omar.stihi@g.enp.edn.dz

Pr. Mammeri Nabil. Mail: nabil.memeri@utc.fr

Ecole National Supérieure Agronomique (ENSA)

Pr. Kaddour Etsouri. Mail : etsouri@yahoo.fr

Dr. Chérif Omari. Mail : c.omari@ensa.dz

Dr. Benchabane. Mail : obenchabane2000@yahoo.fr

Dr. Khelifi Lakhdar. Mail : l.khelifi@ensa.dz

Dr. Amiali Malek. Mail: m.amiali@ensa.dz

Tableau 1 – Relevant contacts established during the implementation of the Project (2012-2014). 2/3

Institut National des Statistiques et de Planification (INPS)

Dr. Kaci Mohammed. Mail : kacimed_inps@yahoo.fr

Institut Supérieur de la Gestion et de Planification (ISGP)

Dr. Mokhtar Benebdelatif. Mail: mbenabdellatif@gmail.com

Institut National de la Propriété Industrielle (INAPI)

Mr. M. A. Hadjouti. Mail: brevets@inapi.dz

EARN Project (UE funded Project)

Dr Sifeddine labed. Mail: sifeddine.labed@nasr-dz.org

CINEA Project (UE funded Project)

Dr. Andrea Loesch (Coordinator). Mail: a.loesch@giraf-pm.com

MIRA Project (UE funded Project)

Dr. Raphael Rodriguez. Mail: raro@orgc.csic.es

FP4BATIW Project (UE funded Project)

Dr. Nicola Tucci. Mail: nicola.tucci@mail2web.com

Join Research Center (JRC)

Dr. Olivier Léo. Mail: olivier.leo@jrc.ec.europa.eu

INNOVABIC

Dr. Alberto Soraci. Mail: a.soraci@innovabic.it

Centre National de la recherche Scientifique (CNRS)

Dr. Benoit Dardelet. Mail: Benoit.DARDELET@cnrs.fr

Fondation FilaHa Innov

Dr. Nouad Mohand Amokrane. Mail: nouadma@yahoo.fr

Institut National des Sols, de l'Irrigation et du Drainage (INSID)

Mme Bougrida O. Mail : ouardarose23@yahoo.fr

Mme Allel Karima Mail: allelkarima@yahoo.fr

Institut Technique des Grandes Cultures (ITGC)

Mme. Madani Manissa. Mail : monissab@yahoo.fr

Office National de l'Irrigation et du Drainage (ONID)

Mr. Talaboulma R

Université des Sciences et de la Technologie d'Oran (USTO)

Dr. Kacem Mourad. Mail : kacemmouourad1964@yahoo.fr

Tableau 1 – Relevant contacts established during the implementation of the Project (2012-2014). 3/3

Université Mouloud Mammeri Tizi Ouzou

Mr. Sifer Kamel. Mail : kamal_sifer@yahoo.fr

EPAU / ASGARD Project

Mlle Dahmani Souhia. Mail : souhiarchi@gmail.com

Mr. Boutaouche Oussama

Mr. Bouroubi Salah

Aquasafe Srl

Mlle Malek Imene. Mail: mlkmn@live.fr

EURL AGriLab

Dr. Acourène Said. Mail : acourtgt@yahoo.fr

SONATRACH/SNTR

Dr. Baaziz Abdelkader. Mail: kbaaziz@gmail.com

Association des Eleveurs Producteurs de Lait de Dar El Beida, Algeria

Mr. Alouni A. Mail. AEBL_alger@yahoo.fr

SAIDAL

Dr. Hacene Ismail. Mail: hacene152002@yahoo.fr

SIFAT

Mme Yazi Karima. Mail: sifatsarl@yahoo.fr

Mutuelle de la Datte

Mr. Djennane Ammar. Mail : ammardjennane@gmail.com

AfriDattes

Mr. Khiredine El Mouaaz

ISO International

Mr. Aboudaou Malek. Mail: mapgdz@yahoo.fr

Electronic Solutions

Mr. Amaini Rafik. Mail: electroniquesolution@gmail.com

Mr. Djeba Toufik. Mail: electroniquesolution@gmail.com

Mr. Elberkennou H.A. Mail: electroniquesolution@gmail.com

BIOVERFORT

Mr. Abdeslam Lakhdar. Mail: abd.lakhdar@hotmail.fr

CEVIAGRO (Company)

Mme Boussad Fariza. Mail : farizaboussad@ceviagro.com

Coopérative Huile d'Olive de Kaylie (CHOK)

Mr. Rahal Abdelkrim. Mail : coop.chok@hotmail.com

Table 2 - List of actors and SME involved in « open days » and « Brokerage-events ».			
id	Short name	Nature	Organisations full name
1	AEPL	Association	Association des Eleveurs laitiers (Dar El Beida)
2	ANDI	Public agency	Agence Nationale pour le Développement des investissements
3	ANSEJ	Public agency	Agence Nationale de soutien à l'emploi des jeunes.
4	ANVREDET	Public agency	Agence Nationale de Valorisation des Résultats de la Recherche et du Développement Technologique.
5	Bioverfort	SME	Entreprise de production de fertilisants biologiques.
6	BNEDER	Consulting firms	Bureau National des Etudes pour le Développement Rural
7	CACQE	Public agency	Centre du contrôle de la qualité et de l'emballage
8	CAW Alger	Professional organ.	Chambre d'agriculture de wilaya d'Alger
9	CDER	Research institutions	Centre de développement des énergies renouvelables
10	CeviAgro	Big company	Private agrifood company
11	CEVITAL	Big Company	Private agrifood company
12	CNRDPA	Research institutions	Centre national pour la recherche et le développement de la pêche et l'aquaculture.
13	CHOK	Cooperative	Coopérative Huile d'Olives de Kabylie (Bouira)
14	CREAD	Research center	Centre de recherche en économie appliquée pour le développement.
15	DDIPI (Blida)	Local institutions	Direction du développement industriel et promotion des investissements de la wilaya de Blida (MIPI)
16	DFRV/MADR	Ministries	Direction de la formation, de la recherche, de la vulgarisation
17	DGRSDT/MESRS	Ministries	Direction de la recherche scientifique et du développement technologique
18	DPIEE/MADR	Ministries	Direction de la formation, de la recherche, de la vulgarisation
19	ENP	Universities	Ecole nationale polytechnique
20	Electronic Solutions	Sart-up	Stratup devoted to electronic solutions applied to agriculture
21	ENSA	Universities	Ecole nationale supérieure d'Agronomie
22	ENSSEA	Universities	Ecole Nationale Supérieure de Statistique et d'Economie Appliquée
23	ENSV	Universities	Ecole nationale supérieure vétérinaire
24	EPAU	Universities	Ecole polytechnique d'architecture et d'urbanisme
25	EURL AGriLab	SMEs and companies	Diversified private agrifood company
26	FALAIT	SME	Private dairy company
27	Filaha Innove	Consulting firm	Filaha Innove
28	INAPI	Public agencies	Institut National de la propriété industrielle
29	INRAA	Research institutions	Institut National de la Recherche Agronomique d'Algérie
30	INSID	Development institutions	Institut national des sols, de l'irrigation et du drainage
31	ISGP	Training firm	Institut Supérieur de Gestion et de Planification
32	ISO International	SME	Biscuit private company
33	ITAFV	Development institutions	Institut Technique de l'Arboriculture et de la Vigne
34	ITGC	Development institutions	Institut technique des grandes cultures
35	Mutuelle des Datte	SME	Private company (Dates production)
36	ONID	Public agencies	Office national de l'irrigation et du drainage
37	SAIDAL	SME	Public pharmaceutical company
38	MANA AGRO	SME	-
39	SIFAT	SME	Private company (Water irrigation equipment)
40	SONATRACH	SME	Petroleum company
41	USTO	Universities	Université des sciences et de la technologie d'Oran
42	ASGARD	Stratup (SME)	ICT applied to beekeeping (ASGARD Project)
43	Innoculum Plus	SME	Private company specialized in Rhizobia (Natural fertilization)
44	Aquasafe	Stratup	Private company specialized in water pollution detection
45	UMMTO	Universities	Université Mouloud Mammeri Tizi ouzou

Table 3- Towards the implementation of the Bouira's olive oil cluster: Roadmap (2014-2016).

- **Adapt the statutes and consolidate the economic base of the cooperative CHOK (End of December 2014).**

Being the lead actor in the cluster, the cooperative must be subject to an adaptation of its legal status and a consolidation of its economic base. From this point of view, the results generated by the DIVECO project will allow to provide the targeted structure with an adequate status in accordance with its cooperative nature. More intensive activities should, moreover, be deployed to expand the economic base of the cooperative by the integration of other olive oil sector actors.

- **Create an animation cell in the cooperative (end December 2014).**

Key recommendation of the Workshop in Tunis, organized by UNIDO in 2012, creating an animation cell with a mission to develop the whole chain and to prepare the general assembly of the cluster, is imperative (Consolidating the current cluster committee and conducting its enlargement to include local decision-makers).

- **Prepare and implement the legal structures and governance of the cluster (December 2015).**

The governance of clusters poses significant challenges that have to be overcome. There is not yet an appropriate legal framework for the creation of clusters in Algeria. Pending the promulgation of these texts, it is imperative to reflect upon the appropriate organizational form. (An economic interest group could be created for this purpose).

The actors of the cluster committee will now reflect on the modalities and funding mechanisms for the recruitment of two permanent experts: A cluster animator and an expert in the field of olive farming for permanent coaching.

- **Identify, validate and start execution of joint projects in the cluster (First semester 2016).**

Priority projects have been identified. The cluster members in association with the government will validate these. The development of a common strategy, the definition of an action plan and seeking financial and non-financial support for the implementation of these projects is imperative. As a reminder, these projects are:

- Creation of a center for the collection and the treatment of margin with installation of collectors at oil factories members.
- Put in place a complete process reutilization of olive pomace. It is expected in this context the rehabilitation of equipment for treating olive pomace available at the cooperative (DIVECO Project and BADR Funding). The launch of this project is likely to boost the membership operators to cluster and cooperative.
- Development of a collective mark or a geographical indication dedicated to Kabylie olive oil (DIVECO Project, ongoing).
- Development of vocational school of the olive cultivation (Agriculture, oil technology processing by-products).

- **Identify, validate and formalize Research and Development projects to develop within the framework of national and international partnerships (H 2020).**

In addition to the projects, ideas already identified with cooperative members and INRAA's researchers (see Table 9), the cluster actors must now identify partnership projects to promote clusters with North African and Euro-Mediterranean clusters, which have similar or close subjects.

Table 4 - List of R-D Projects identified (Continuously Updated). 1/5

Project Holder (s)	Domains	Project Idea	Institutions and SMEs potentially involved
YATTA DJAMILA INRAA Biotechnology and crop improvement Division	Date palm	Industrial development (in vitro culture of date palm). Somatic embryogenesis and genetic improvement of date palm using protoplast culture.	INRAA Partners: Prospecting
Farid HERDA, Hakim BACHIR and Karim OUAMER-Ali INRAA Bioclimatology and soil Divisions	Water management	Improved water harvesting technologies, social innovation and income diversification for increasing resilience to climate change impacts of rural natural resources-based economies in fragile ecosystems.	INRAA Partners: Prospecting
HERDA Farid INRAA Bioclimatology Division	Water management in dry areas /cereals	Raised-bed planting system for supplemental irrigation of wheat with conventional and unconventional water resources.	ITGC? INSID? ONID?
SBARGOUD Saida and BACHIR Hakim INRAA Bioclimatology Division MAZARI Azzeddine and AZOUZ Mounira INRAA Agrifood Technology Division OUAMEUR Ali Karim INRAA Soil Division	Multidisciplinary	Improving production and quality of wheat and flour (HABIT Project).	Groupe Amor Benamor? MADR
TAZKA Hamida INRAA Animal production Division	Milk Technology, mammitis and reproductive diseases	Development of a recombinant vaccine against mammary infections in dairy cattle.	Prospecting
DAAS Mohamed INRAA Agrifood Technology Division	Valorisation of Olive Mill Wastewater	Biotechnological valorisation of Olive Mill Wastewater (Margines) in Med countries (Algeria).	INRAA CHOK cooperative (Bouira), Boumerdes University Partners from Italy and France
ALLIM Djamila INRAA Crop Protection Division	Integrated pest mangment	Production of new bio-molecule to preserve potato tuber in field and in storage against pectobacterium.	CNCC?, ITCMI? Enterprises:? Institutions?
BOUCHIKH Yamina	Biofertilizers	Using macro algae as biofertilizers and stress regulator.	INRAA (To be developped)

Table 4- List of R-D Projects identified (Continuously Updated). 2/5

Project Holder (s)	Domains	Project Idea	Institutions and SMEs potentially involved
ABED NOUR Elhouda INRAA Soil Division	Rhizobiums and biofertilizers	Utilisation of a bio-fertiliser more ecological and less expensive (Rhizobiums).	Project Proposal completed, ready for submission with a consortium of 11 partners from North America (Canada), Europe (Slovenia, France, Spain) and Africa (Algeria, Senegal).
FDJER Z., BLAMA Aicha (1) Technology and Genetic plant resources Divisions	Medicinal plants	Production of bioactive components to pharmaceutical industry through medicinal plants valorization (Desertic areas).	INRAA SAIDAL?
DALI Mustapha INRAA Soils Division	GIS	Cereal crop monitoring system and yield forecast in Algeria using ICT solutions (GIS).	Algerian partners; INRAA, INSID? MADR (DSASI), ITGC, OAIC, BNDER North African partners: INRAT, INRAM European partners: JRC, ISRIC, Wageningen University.
MAZARI A. INRAA Agrifood Technology Division	Biotechnology applied to agriculture and agrifood industry.	Production and valorization of secondary metabolites, having a biotechnological interest, from bacterial and plant origin,	Requires further refinement
YAHIAOUI F. and AGOUNE L., ENSA (1)	Traditional know-how, food additives, aromatic and medicinal plants.	Chemical composition and biological activity d'Aplophylum tuberculatum ("Sedret edwa")	ENSA (Food technology department) INRAA, SAIDAL, USTHB?
F. HERDA, H. BACHIR K. OUAMER-Ali INRAA Bioclimatology and soil Divisions	Water managment	Innovative Technologies for the sustainable management of water resources (Waste water reuse).	Partners from Algeria (INRAA, ONA) and Italy. Others will be identified
KABLI Nabila INRAA Animal production Division	Valorization of saharian bees	Preservation of the Saharan Bee (<i>Apis mellifera sahariensis</i>) in its natural environment (Biodiversity, sustainable developement, food security).	Prospecting
DAAS Mohamed INRAA Agrifood Technology Division	Microbial genetic resources.	Characterization and exploiting of local microbial biodiversity (<i>Bacillus</i>) in the development of national agrifood industry (Production of biomolecules).	Algeria (INRAA, USTHB, Boumerdes University) Partners from Europe (France, Italy)
(1) Projects to be developed and integrated into a single large project dedicated to medicinal plants			

Table 4 - List of Innovative Projects (Continuously Updated). 3/5

Name and Surname	Area of Expertise	Project Idea	Potentially interested institutions and companies
Mr. Amaini Rafik Mr. Boukhari M.R Mr. Djeba Toufik Mr. Elberkennou H.A Mr. Ghenaia Seif	Electronic solutions applied to natural resources and agriculture	Detection of gases and pollution Mastery of atmosphere conditions using automatic control in greenhouses and livestock buildings ... etc.). Establishing a startup	Seeking partners: INRAA? ENP? USTHB? Financial and industrial partners?
Mr. Boutaouche mohamed Mr. Bouroubi Salah eddine Mr. Dahmani Souhila Mme Kabli Nabila	Electronic solutions applied to natural resources and agriculture	ASGARD hive project.	Seeking partners: INRAA Financial and industrial partners?
Pr. Hakim Lounici Pr. Mameri Nabil	Recycling and valorization of industrial waste and industrial effluents	Valorization of waste oil mills (olive pomace)	ENP, INRAA, Cooperative CHOK?
Pr Etsouri Kadour	Renewable energy	Wind turbines coupled to vertical axis. Exploitation of emerging hydraulic Albian power drill and the design and implementation of a device for converting this energy into electrical energy through a turbine-generator set. Manufacture of wind machines used in irrigation.	Seeking partners: ENSA Need more advanced discussions before finalization
Malek Imane (Polytecnic National School)	Environmental protection, water quality	Promote electronic real-time monitoring of industrial discharges. Designing a functional prototype, based on pollution sensors.	ENP Seeking partners
Association des producteurs de lait de Dar El Beida (Alouane)	Dairy industry	Developing milk collection center in the perspective of improving the quality of milk	INRAA Association of dairy farmers (DEB)
Dahliz A et Lakhdari Wassima (INRAA)	Biological control and development of organic agricultural products.	Biological control: an idea for a spin-off entreprise to develop sustainable agriculture in Algeria and to commerce of bio-products.	Seeking partners: INRAA (Agronomy division)
INRAA	Property rights	Setting up a support center in technology and innovation (CATI).	INAPI

Table 4 - Companies and economic actors demand (Continuously updated). 4/5

Entreprises	Domaines	Project ideas, requests made or clarifications	Institutions/ research centers/ Partners potentially interested
CEVITAL	Recycling of industrial waste	Recycling of industrial waste	Requires more thorough discussions. Potential Partners: ENP? INRAA? IRTA?
CEVI Agro	Agriculture durable	Solutions adapted to the Algerian context (Renewable energy, fertigation, greenhouses multi chapels). Soilless gardening (Potato Seed Production).	Requires more thorough discussions. Potential Partners: IRTA?
BIOVERFORT	Development of agricultural and agro-industrial by-products	Valuation of olive cake fertilizer and animal feed. Production of organic pesticides	Potential Partners: INRAA?
Mutuelle de la Datte (CRMA Ourgla)	Food Technology Development of agricultural products.	Date syrup production. Refinement of the production process	Potential Partners: INRAA AgriLab (Dr. Acourène Said) CINEA Project
SARL ISO 9 INTERNATIONAL	Food Technology	Food colorings (Instead of Industrial dye) and conservative natural. Exploration and characterization new varieties with high value biscuit Algerian Wheats Valuation of wheat germ (Flour for biscuits stabilized).	Requires more thorough discussions. Potential Partners: IRTA?

Table 4 - Companies and economic actors demand. 5/5

Entreprises	Domaines	Project ideas, requests made or clarifications	Institutions/ research centers/ Partners potentially interested
Coopérative CHOK, Bouira	Development of agricultural and agro-industrial by-products.	Valuation of pomace and vegetable water. Provide solutions to the problems of pollution margins.	Potential Partners: INRAA, ITAFV, ENP ? ENSA ? CAW Bouira ? Other partners (industrial, institutional and financial) to prospect.
	Food Technology Value of agricultural products	Development of a traditional olive oil quality.	Potential partners: INRAA, ITAFV, CINEA project, ENSA
Laboratoire Herbesal	Development of natural resources	Production of natural therapeutic vinegars (apple, prickly pear, pomegranate). - Valuation of the cactus paddle.	Potential Partners : SAIDAL USTHB (Dr. Djebbar) INRAA Projet CINEA
Ets ZAHAR	Food technology	Solutions to crystallization of sugars.	Project Partnerships Refine prospecting
Alouani Abderahmane AEL Dar Elbeida	Milk production (social and institutional innovation)	Creating a raw milk collection center articulated with a multidisciplinary cooperative with a laboratory analysis of milk quality	INRAA (Division Zootechnie) CNA ANVREDET Other partners to prospect

Table 5- List of researchers coached by the FAWIRA project

Nom et prénom	Affiliation	Research division	Mail
Yahiaoui Samia	INRAA MBRS	Plant geneti resources	yahiaouisamia@hotmail.com
Terranti Salima	INRAA MBRS	Animal production	salima_ter@yahoo.fr
Oukil Salah	INRAA MBRS	Plant protection	s_oukil@hotmail.com
Khaldoune Saida	INRAA HQ	Plant protection	saidakhaldoun@yahoo.fr
Hammeni nassima	INRAA MBRS	Hydraulic applied to agriculture	-
Douzane malika	INRAA MBRS	Agrifood technology	inraalabtech@yahoo.fr
Cherfaoui ML	INRAA HQ	Economics	mohammedlarbicherfaoui@yahoo.fr
Belkhiri F.E.	INRAA MBRS	Bioclimatology	fed_belkhiri@yahoo.fr
Aoudjit rabah	INRAA MBRS	Plant protection	rabah_aoudjit@hotmail.com
Amira farid	Touggourt RS	Agrifood technology	biotggt@yahoo.fr
Aït Hamou rachid	INRAA MBRS	Agrifood technology	ait_hamou1@yahoo.fr
Acourene Said	EURL AGriLabs	SME	acourtgt@yahoo.fr
Abed NEH	INRAA MBRS	West Agrosystem	abed.nourelhouda@yahoo.fr
Alim Djamila	INRAA MBRS	Plant protection	alim-djamila@hotmail.com
Benidir M.	Sétif RS	East Agrosystem	moh19ina@yahoo.fr
Blama aicha	INRAA HQ	Agrifood technology	blama.aicha@gmail.com
DAAS M.S	INRAA MBRS	Agrifood technology	mohamed.daas@yahoo.fr
Mustapha Dali	INRAA MBRS	Soils, GIS Unit	dalimustapha@gmail.com
Fdjer Zineb	INRAA MBRS	Plant protection	-
HERDA Farid	INRAA MBRS	Bioclimatology	f_herda@yahoo.fr
Kabli N	INRAA MBRS	Animal production (ASGARD Project)	bila14dz@yahoo.fr
Tazka L	INRAA MBRS	Animal production	htazka@yahoo.fr
Yatta djamila	INRAA MBRS	Biotechnology applied to plant breeding	eldjouzidjamila@yahoo.fr
Azouz mounira	INRAA MBRS	Agrifood technology	minazdz@yahoo.fr
Bachir hakim	INRAA MBRS	Bioclimatology	akm7.62@hotmail.fr
Mazari azzedine	INRAA MBRS	Agrifood technology	mazari32@yahoo.com
Ouameur A.K.	INRAA MBRS	Soil	oa_karim@yahoo.fr
Sbargoud Saida	INRAA MBRS	Bioclimatology	s_gouds@yahoo.fr
Mahboubi Selma	SBA RS	West agro system	mahboubi_selma@yahoo.fr
Yakkour Amine	INRAA MBRS	Plant genetic resources	a_yekkour@hotmail.fr
Chouaki Salah	INRAA HQ	Mountain Agrosystems	chouaki.s@gmail.com
Bouchikh Y.	SBA RS	West agro system	yaminabouchikh@yahoo.fr
Dahmani S.	EPAU	ASGARD Project	
Boutaouche O.	INELEC	ASGARD Project	boutaoucheoussama7@gmail.com
Kacem Mourad	USTO	Applications biotechnologies pour l'industrie	-

Table 6- List of the instruments acquired for the agrifood Technology laboratory (INRAA)

N°	Instruments	Quantity	Characteristics
1.	UV/Vis Spectrophotometer	01	Spectral range:190-1100nm.
2.	Binocular microscope	01	
3.	Benchtop pH meter	01	
4.	Pyrex Distillation set	01	
5.	Kjeldahl glass set	01	
6.	Heating plate	01	
7.	Rotary evaporator	01	
8.	Benchtop centrifuge	01	
9.	Water distiller	01	
10.	Autoclave	01	Capacity : 23 L.
11.	Pipettes washer	01	
12.	Agitated water bath	01	Water Bath capacity 22L.
13.	Heating mantles	02	Capacity 500ml each.
14.	Essential oil extraction apparatus (Clavenger)	01	
15.	Set of Micropipettes	01	(1-10,10-100, 100-1000 µl)
16.	50 µl Capillary Micropipette	01	5 volume
17.	50 µl Capillaries	02	Lot of 200
18.	Magnetic hot plate stirrer	01	
19.	Vortex Agitator	01	
20.	Kjeldahl Mineralser	01	
21.	Kjeldahl Distiller	01	
22.	GC Silice Capillary Coloumn	01	
23.	Refrigerators	03	02 standard and 01 combined
24.	Cheese Butyrometer	01	

Table 7- Networks of partners and partnerships developed through FAWIRA Project (Networking for drafting new projects). 1/3

Institutions	Countries	Comments
Institute of Research and Technology Food and Agriculture (IRTA) http://www.irta.cat	Spain	Performing two FP 7 projects (FAWIRA and CINEA)
Rete Europea dell'Innovazione (REDINN) http://www.redinn.it	Italy	Performing FAWIRA project and drafting another H2020 project.
Universita Di Pisa (UNIPi) http://www.unipi.it/	Italy	Performing FAWIRA project and drafting another H2020 project.
GIRAF GmbH http://www.giraf-pm.com	Germany	Performing CINEA project
National Center for Scientific Research(CNRS) http://www.cnrs.fr	France	Performing CINEA project and drafting another H2020 project.
Fondation de l'université d'Alicante (FUA) http://www.ua.es	Spain	Performing CINEA project
Université de S.M Ben Abdellah (USMBA) http://www.usmba.ac.ma/	Marocco	Performing CINEA project
Confédération générale des entreprises du Maroc (CGEM) Website: http://www.cgem.ma/	Marocco	Performing CINEA project
Sfax Biotechnology Center (CBS) www.cbs.rnrt.tn/	Tunisia	Performing CINEA project
Sfax Faculty of Science (SFS) http://www.fss.rnu.tn	Tunisia	Performing CINEA project
Agence de promotion de l'industrie et de l'innovation (API) http://www.tunisieindustrie.nat.tn/	Tunisia	Performing CINEA project
Fachhochschule Munster http://www.fh-muenster.de	Germany	Drafting and submitting an EuropeAid project
The Association of European Renewable Energy Research Centers EUREC http://www.eurec.be	Belgium	Drafting and submitting an EuropeAid project
Jordan University http://www.just.edu.jo	Jordan	Drafting and submitting an EuropeAid project
CITT (University of Alexandrie) www.alexu.edu.eg	Egypt	Drafting and submitting an EuropeAid project
Université Abdelmalek Essaâdi http://www.uae.ma	Marocco	Drafting and submitting an EuropeAid project
Université Formation Continue (UFC) http://www.ufc.dz/	Algeria	Drafting and submitting an EuropeAid project
Agence Nationale pour la valorisation de la recherche et le développement technologique (ANVREDET). http://www.anvredet.org.dz/	Algeria	Performing CINEA project
Université de Birzeit http://www.birzeit.edu/	Palestine	Drafting and submitting an EuropeAid project
Université Américaine de Beyrouth (AUB) http://www.aub.edu.lb	Lebanon	Drafting and submitting an EuropeAid project
Université de Barcelone (UB) http://www.ub.edu	Spain	Drafting and submitting two projects (EuropeAid plus H 2020)
Université de Monastir http://www.um.rnu.tn/	Tunisia	Drafting and submitting an EuropeAid project

Table 7- Networks of partners and partnerships developed through FAWIRA Project (Networking for drafting new projects). 2/3

Institutions	Countries	Comments
Biological Research Center szged (BRC) http://www.brc.hu/	Hungary	Drafting and submitting an H 2020 project
University of Bucharest http://www.unibuc.ro/	Romania	Drafting and submitting an H 2020 project
INRA SupAgro https://www.supagro.fr/	France	Drafting and submitting an H 2020 project
Nice Antipolis University http://unice.fr/	France	Drafting and submitting an H 2020 project
Mohamed V University (UM5) http://www.um5a.ac.ma	Morocco	Drafting and submitting an H 2020 project
Institut de Recherche pour le développement. (IRD). Website: http://senegal.ird.fr/	Senegal	Drafting and submitting an H 2020 project
Instituto de la Grasa http://www.csic.es	Spain	Drafting and submitting an H 2020 project
InnoV Hub http://www.innovhub-ssi.it/	Italy	Drafting and submitting an H 2020 project
EKUT http://www.uni-tuebingen.de/	Germany	Drafting and submitting an H 2020 project
Veritas	Spain	Drafting and submitting an H 2020 project
Join Research Center (JRC) https://ec.europa.eu/jrc/	UE	Developing institutional activities related to crop monitoring
Bologna University (UNIBO) http://www.unibo.it/en	Italy	Developing institutional agreement
ISASTUR http://www.grupoisastur.com/	Spain	Drafting an H 2020 project
Med-Spring, EARN and FP4BATIW projects	-	Networking activities
Agricultural University of Athens (AUA) http://www.aua.gr/	Greece	Drafting and submitting an H 2020 project
University of Catania UNICT http://www.unict.it/	Italy	Drafting and submitting an H 2020 project
Cooperativas Agro-alimentarias de España http://www.agro-alimentarias.coop/inicio	Spain	Drafting and submitting an H 2020 project
New University of Lisbon FCT UNL http://www.unl.pt/en/	Portugal	Drafting and submitting an H 2020 project
Cadi Ayyad University UCA http://www.uca.ma/site/	Morocco	Drafting and submitting an H 2020 project
Montpellier SupAgro INRA https://www.supagro.fr/	France	Drafting and submitting an H 2020 project
Lebanese Association for Energy Saving and Environment ALMEE http://www.almeelebanon.com/	Lebanon	Drafting and submitting an H 2020 project
University of Zagreb Faculty of Agriculture FAZ http://www.agr.unizg.hr/	HR	Drafting and submitting an H 2020 project
City for Scientific Research and Technological Applications SRTA-City http://mucsat.org/	Egypt	Drafting and submitting an H 2020 project
TÜBITAK MRC Food Institute TÜBITAK http://mam.tubitak.gov.tr/	Turkey	Drafting and submitting an H 2020 project
Imperial College London ICCEPT http://www3.imperial.ac.uk/icept	UK	Drafting and submitting an H 2020 project
Unità di Ricerca per l'Ingegneria Agraria	Italy	Drafting and submitting an H 2020 project
Energy Institute Hrvoje Pozar EIHP http://www.eihrp.hr/	Hungary	Drafting and submitting an H 2020 project
Leiden University, Institute of Environmental Sciences CML http://www.cml.leiden.edu/	Netherlands	Drafting and submitting an H 2020 project

Table 7- Networks of partners and partnerships developed through FAWIRA Project (Networking for drafting new projects). 3/3

Institutions	Countries	Comments
Center for Renewable Energy Sources and Saving (CRES). http://www.cres.gr/	Greece	Drafting and submitting an H 2020 project
Università Ca' Foscari Venezia http://www.unive.it/	Italy	Drafting and submitting an H 2020 project
National Institute of Agricultural Economics (INEA) http://www.inea.it/	Italy	Drafting and submitting an H 2020 project
European Academy for the Culture of Landscape (PETRARCA) http://www.petrarca.info	Germany	Drafting and submitting an H 2020 project
Universidade de Coimbra - CES Coimbra http://www.ces.uc.pt/	Portugal	Drafting and submitting an H 2020 project
Akdeniz University http://en.akdeniz.edu.tr/en/	Turkey	Drafting and submitting an H 2020 project
Krakov University of Economics http://uek.krakow.pl/en	Poland	Drafting and submitting an H 2020 project
Institution de la Recherche et de l'Enseignement Supérieur Agricoles IRESA http://www.iresa.agrinet.tn/	Tunisia	Drafting and submitting an H 2020 project
Cyprus University of Technology (CUT) http://www.cut.ac.cy/	Cyprus	Drafting and submitting an H 2020 project
International Center for Agricultural Research in the Dry Areas (ICARDA) http://www.icarda.org/	Lebanon	Drafting and submitting an H 2020 project
National Forum of Social Farming	Italy	Drafting and submitting an H 2020 project
Escola de Pastors https://projectegripia.wordpress.com/	Spain	Drafting and submitting an H 2020 project
Agricoltura Capodarco	Italy	Drafting and submitting an H 2020 project
Consejo de Juventud de Extremadura CJEX http://www.cjex.org/	Spain	Drafting and submitting an H 2020 project

FAWIRA PROJECT IMPLEMENTATION

2- Activities in pictures (1).



Open day II (Mehdi Boualem, 3 July 2013)



Open day II (Mehdi Boualem, 3 July 2013)



Open day III (INRAA HQ, 17 February 2014)



Brokerage event III (INRAA, 17 February 2014)



Brokerage event III
(INRAA, 17 February 2014)



Training Workshop II
(INRAA, 18-19 February 2014)

FAWIRA PROJECT IMPLMENTATION

2- Activities in pictures (2).



**Agrifood Technology Laboratory(Equiped and strengthened)
Mehdi Boualem research station (Algiers)**



**Olive Oil Cluster meeting
(Bouira, 6 May2014)**



**CHOK Cooperative:
National FAWIRA Partner**

FAWIRA PROJECT IMPLMENTATION

2- Activities in pictures (3).



FAWIRA: Participation to the national meeting devoted to research and innovation organized by DGRSDT (Oran, April 2014)



**Study trip
(Italy, June 2014)**



**Study trip
(Italy, June 2014)**



**Study trip
(Italy, June 2014)**



Study trip (Italy, June 2014)

FAWIRA PROJECT IMPLMENTATION

2- Activities in pictures (4).



Final Conference (Algiers, 27 November 2014)