



ARIMNet and ARIMNet2

Florence JACQUET, INRA



Euragri Meeting
29 & 30 September 2014, Montpellier



Rationale

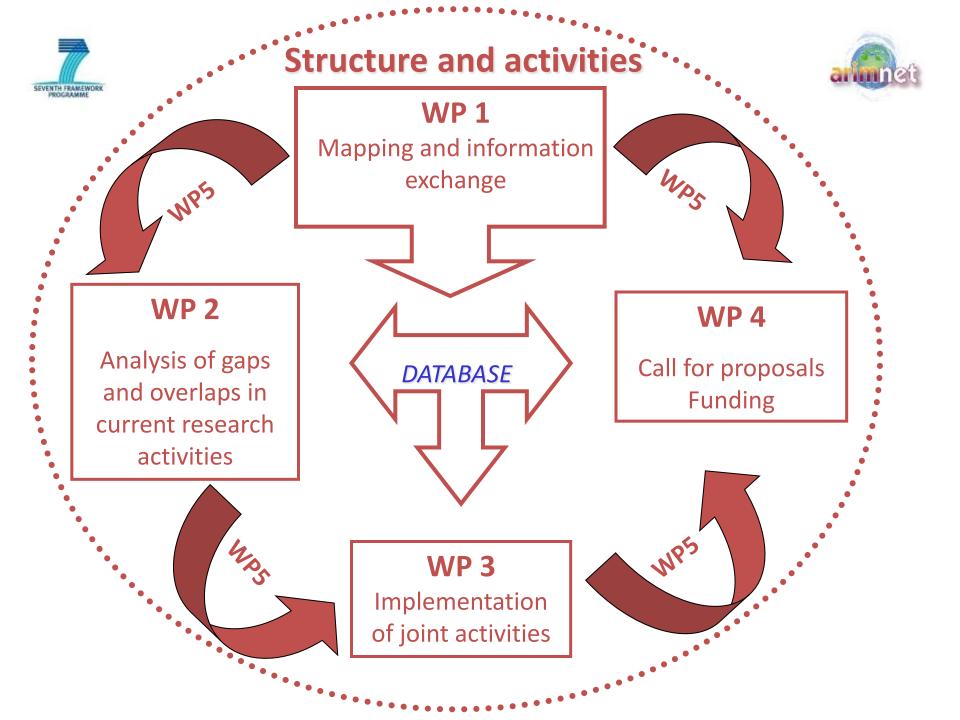
- Mediterranean agriculture faces major challenges: climate change, water scarcity, food security. Most of them are worldwide issues but are particularly acute in the Med.
- Agricultural Research Capacities in the Mediterranean region are fragmented, not sufficiently developed to address properly these issues in several countries.
- Some previous partnerships, for instance due to in EU-FP6 between Northern Med and Southern Med research teams; but without an involvement of Mediterranean Countries in the design of priorities.
- Need to develop coordination not only at the project level but also at the programmes level.

ARIMNet (2008-2013) Agricultural Research in the Mediterranean Area Network

- A four years ERA-Net supported and funded by the European Commission FP7:
 - reinforce the scientific cooperation between countries of the Mediterranean area, creating a research community through the coordination of national programmes in Agricultural Research;
 - address jointly the common key issues for Mediterranean agriculture such as: sustainable development of agriculture, management of natural resources and mitigation of threats resulting from global change;
 - better fulfil the expectations of decision makers,
 stakeholders and Mediterranean populations.

Partners

Name	Short name	Country
Institut National de la Recherche Agronomique	INRA	France (FR)
Centre de Coopération Internationale en Recherche Agronomique pour le Développement	CIRAD	France (FR)
Ministero delle Politiche Agricole Alimentari e Forestali	MIPAAF	Italy (IT)
Institut National de la Recherche Agronomique d'Algérie	INRAA	Algeria (DZ)
Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria	INIA	Spain (ES)
General Directorate of Agricultural Research and Policy, Ministry of Food Agriculture and Livestock	GDAR	Turkey (TR)
Agricultural Research Centre	ARC	Egypt (EG)
Fundação para a Ciência e a Tecnologia	FCT	Portugal (PT)
Hassan II Institute of Agronomy and Veterinary Medicine	IAV	Morocco (MA)
National Agricultural Research Foundation	NAGREF	Greece (EL)
Institution of Agricultural Research and Higher Education	IRESA	Tunisia (TN)
Agricultural Research Institute	ARI	Cyprus (CY)
Ministry of Agriculture and Rural Development	MOARD	Israel (IL)



Caracterisation of scientific publications of twelve Mediterranean Countries: Bibliometric analysis

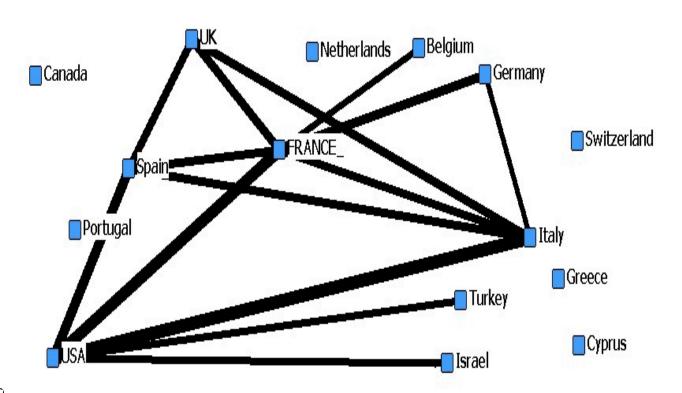
- Web of Science 2006-2010
- 12 Subject Categories:
- Agriculture, Multidisciplinary; Agriculture, Dairy & Animal Science; Agronomy; Agricultural Engineering; Agricultural Economics & Policy; Food Science & Technology; Horticulture; Soil Science; Veterinary Sciences; Plant Sciences; Water Resources; Biotechnology and Applied Microbiology

Country	Nb. Pub.	0/0
Spain	15472	26%
Italy	13539	23%
France	13138	22%
Turkey	8684	15%
Portugal	3085	5%
Greece	2996	5%
Israel	2628	4%
Egypt	1323	2%
Tunisia	1267	2%
Morocco	514	1%
Algeria	491	1%
Cyprus	98	0%

Data: Web of Science®, Inra processed.

Caracterisation of scientific publications of twelve Mediterranean Countries

Copublications between Arimnet countries and other main countries if links > to 400 publications



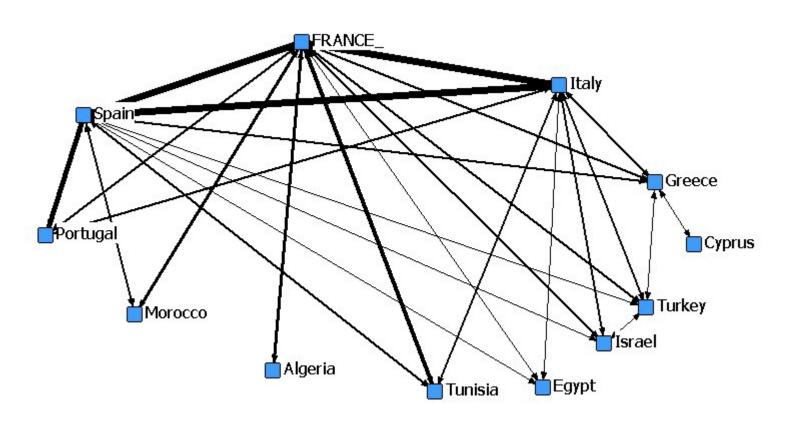
■ Algoria

Morocco

Data: Web of Science Inra processed.

Collaborations between Arimnet countries

Copublications between Arimnet countries if links > to 20 publications



Joint Call for Research proposals 2011 – General features

- A call co-funded by ARIMnet partners
- Common definition of the scope of the calls
- Common criteria for eligibility
- External evaluation
- Common selection and follow-up of project
- Virtual common pot of 6 million euros

Call content

The call focused on major challenges faced by Mediterranean Agriculture:

- Production systems and their components: Developing sustainable agricultural production in a context of increasing ecological and climatic stresses
- 2. Food chain from production to distribution: Enhancing the advantages of Mediterranean agriculture in developing products with high added value
- Landscape and resources uses for agricultural and environmental purposes: Sustainable management of land and natural resources

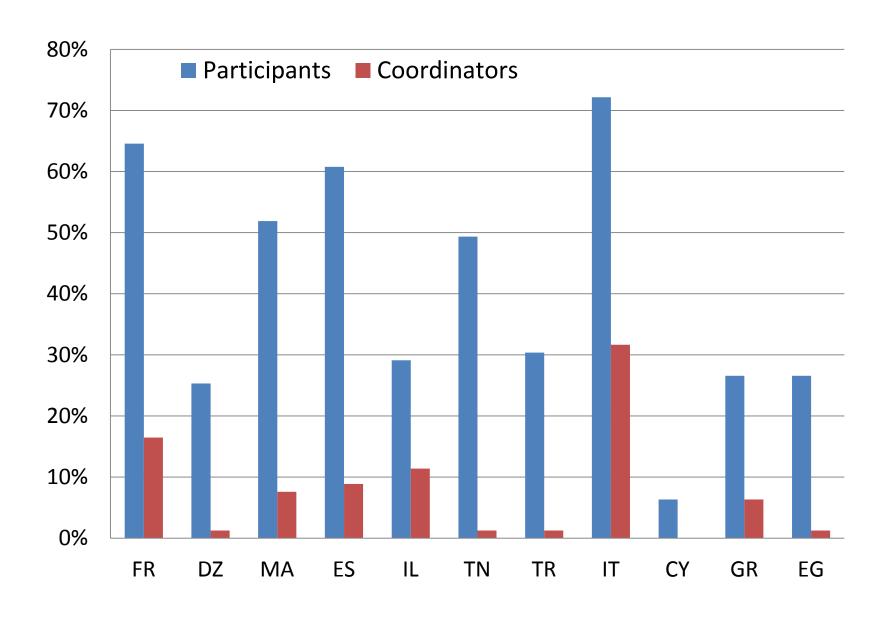




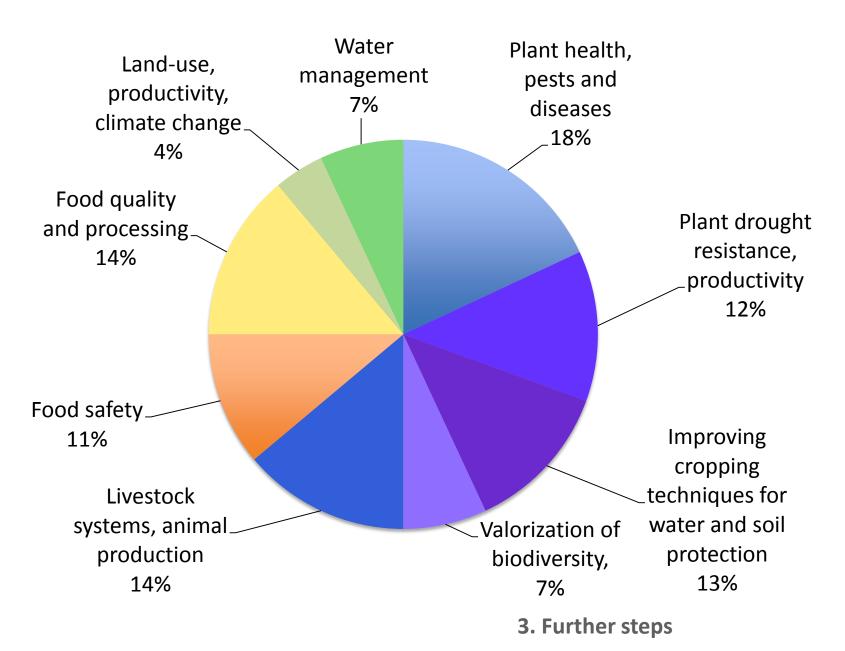




Call results – **79** proposals



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Selected projects

APMed- Apple and Peach in Mediterranean orchards – Integrating tree water status and irrigation management for coping with water scarcity and aphid control

ARIDWASTE- Development of specific agricultural practices with the use of recycled wastes suitable for intensively cultivated Mediterranean areas under degradation risk

CLIMED- The future of Mediterranean Livestock Farming Systems: Opportunity and efficiency of Crops – Livestock Integration

DOMESTIC- Mediterranean biodiversity as a tool for the sustainable development of the small ruminant sector: from traditional knowledge to innovation

MEDILEG- Breeding, agronomic and biotechnological approaches for reintegration and revalorization of legumes in Mediterranean agriculture

REFORMA-Resilient, water- and energy-Efficient FORage and feed crops for Mediterranean Agricultural systems

SAFEMED- Food safety regulations, market access and international competition

SWIPE-Predicting whitefly population outbreaks in changing environments

PESTOLIVE-Contribution of olive history for the management of soil-borne parasites in the Medi Basin

POHMED- Potato Health - Managed for Efficiency and Durability

Name	TITLE	FR	DZ	MA	ES	IL	TN	TR	IT	CY	GR	EG	USA	СН	PT
APMed	Mediterranean orchards – Integrating tree water status and irrigation management for coping with water scarcity and aphid control	X		X	X	X			X						
SWIPE	Predicting whitefly population outbreaks in changing environments	Х			Х	X		Х	х		х		Х	Х	
PESTOLIVE	Contribution of olive oil history for the management of soil born- parasites	X		Х	Х		Х	Х	Х		Х				
CLIMED	The future of Mediterranean Livestock Farming Systems: Opportunity and efficiency of Crops – Livestock Integration	X		X								X			
ARIDWASTE	Use of recycled wastes in cultivated suitable for intensively cultivated mediterranean area under degradation risk				X	X	X		X		X				
DoMEsTIc	Mediterranean biodiversity as a tool for the sustainable development of the small ruminant sector: from traditional knowledge to innovation	Х		х						х	x				
MEDILEG	Revalorization of legumes in Mediterranean agriculture	Х	х	Х	X		х		х			х			Х
SAFEMED	Food safety regulations, market acces and international competition	X	Х	Х	Х		Х		Х						
PoH-MED	Potato Health - Managed for Efficiency and Durability	X	Х	Х								Х			
REFORMA	Resilient, water- and energy-Efficient Forage and feed crops	Х	х	Х			Х		X				Х		

ARIMNet Main achievements

- A better and shared knowledge of on-going programmes in the region.
- A pilot action: A joint call for transnational research projects.
- Establishing the conditions of implementing other joint activities
- The willingness to continue the cooperation in the future

ARIMNet2 (2014-2017)

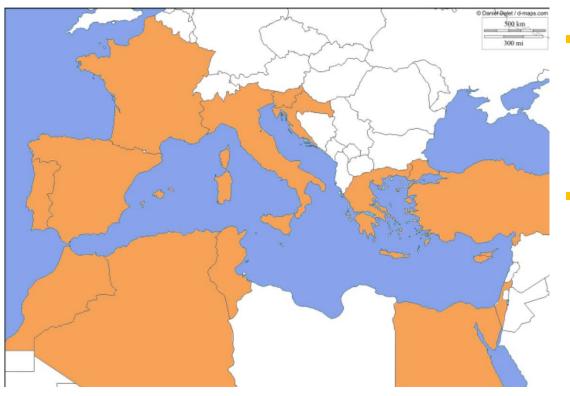
Consolidating the ARIMNet achievements and deepening the cooperation

- Deepen and ensure the cooperation between Mediterranean countries
- Establishing a common vision on agricultural research and innovation and a common scientific strategic agenda
- Undertaking actions to push further the achievements of ARIMNet

ARIMNet2 (2014-2017)

24 partners from 15 countries:

- 9 members of the EU (Croatia, Cyprus, France, Greece, Italy, Malta, Portugal, Slovenia, Spain),
- 2 Associated Countries (Turkey, Israel),
- 4 Mediterranean Partner Countries (Algeria, Egypt, Morocco, Tunisia).



National Funding
Agencies and
Research Programme
Owners

2 international organisations ICARDA, CIHEAM-IAMMn

ARIMNet2 Partners

N°	Participant organisation name	Short name	Country			
1.	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE	INRA-FR	FRANCE			
2.	ACADEMY OF SCIENTIFIC RESEARCH AND TECHNOLOGY ASRT	ASRT-EG	EGYPT			
3.	AGENCE NATIONALE DE LA RECHERCHE	ANR-FR	FRANCE			
4.	CENTRE DE COOPERATION INTERNATIONAL EN RECHERCHE AGRONOMIQUE POUR LE DEVELOPPEMENT	CIRAD-FR	FRANCE			
5.	CENTRE INTERNATIONAL DE HAUTES ETUDES MÉDITERRANÉENNES-INSTITUT AGRONOMIQUE MÉDITERRANÉEN DE MONTPELLIER	CIHEAM-IAMM				
6.	FUNDACAO PARA A CIENCIA E A TECNOLOGIA	FCT-PT	PORTUGAL			
7.	HELLINIKOS GEORGIKOS ORGANISMOS - DIMITRA (HELLENIC AGRICULTURAL ORGANIZATION - DEMETER)	DEMETER-GR	GREECE			
8.	INSTITUT AGRONOMIQUE ET VETERINAIRE HASSAN II	IAV-MA	MOROCCO			
9.	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE D'ALGERIE	INRAA-DZ	ALGERIA			
10.	INSTITUT ZA JADRANSKE KULTURE I MELIORACIJU KRSA-SPLIT	KRS-HR	CROATIA			
11.	INSTITUTION DE LA RECHERCHE ET DE L'ENSEIGNEMENT SUPERIEUR AGRICOLES	IRESA-TN	TUNISIA			
12.	INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA	INIA-ES	SPAIN			
13.	INTERNATIONAL CENTRE FOR AGRICULTURAL RESEARCH IN THE DRY AREAS	ICA	ARDA			
14.	ISTITUTO NAZIONALE DI ECONOMIA AGRARIA	INEA-IT	ITALY			
15.	MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA RECHERCHE SCIENTIFIQUE	MESRS-DZ	ALGERIA			
16.	MINISTERO DELLE POLITICHE AGRICOLE ALIMENTARI E FORESTALI	MIPAAF-IT	ITALY			
17.	MINISTRSTVO ZA IZOBRAZEVANJE, ZNANOST, KULTURO IN SPORT	MIZS-SI	SLOVENIA			
18.	MINISTRSTVO ZA KMETIJSTVO IN OKOLJE	MKO-SI	SLOVENIA			
19.	MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT	MOARD-IL	ISRAEL			
20.	MINISTRY OF AGRICULTURE, NATURAL RESOURCES AND ENVIRONMENT OF CYPRUS	ARI-CY	CYPRUS			
21.	MINISTRY OF FOOD AGRICULTURE AND LIVESTOCK	GDAR-TR	TURKEY			
22.	MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH	MESRT-TN	TUNISIA			
23.	OFFICE OF THE PRIME MINISTER	MCST-MT	MALTA			
24.	THE AGRICULTURAL RESEARCH CENTER	ARC-EG	EGYPT			

ARIMNet2 Work Plan

	Work package title
WP1	Developing an Integrated Strategic Research Agenda
WP2	Preparation and launching of Joint Calls for transnational research projects
WP3	Monitoring, follow-up and impact assessment of ARIMNet Calls and joint activities
WP4	Implementing pilot actions of joint activities to support cooperation in Mediterranean agricultural research (mobility, summer schools,)
WP5	From Research to Innovation (Agricultural Knowledge and Innovation Systems)

ARIMNet2 2014 Call

- Joint call for research proposals launched September 2014
- Research + innovation potential
- Contribution to capacity building (training&mobility)
- Dissemination in higher education
- 16 partners, 14 countries,
- Virtual pot 7 million euros

ARIMNet2 2014 Call

TOPICS 2014 Call	ANR	MIZS	MIPAAF	NIA	FCT	DEMETER	KRS	GDAR	MOARD	MESRSFC	MESR	IRESA	MESRS	ASRT	ARC	MCST
	France	Slovenia	Italy	Spain	Portugal	Greece	Croatia	Turkey	Israel	Morocco	Tunisia	Tunisia	Algeria	Egypt	Egypt	Malta
Increase in resilience, rusticity and productivity of Mediterranean agricultural production systems	X	X		X	X	X	X	X		X	X	X	X	X		X
2. Improving inputs management , at the level of the production systems	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
3. Common Mediterranean challenges in animal and plant health	X	X	X	X	X	X		X	X	X		X	X	X		X
4. Sustainable Mediterranean Aquaculture and Fisheries	X								X	X		X	X			X
5. Innovation in the agroindustry	X	X			X			X		X		X	X	X		X
6.Logistics, supply chain organization, transportation	X			X	X			X					X		X	X
7.Food safety, food sanitary issues	X	X			X	X		X	X	X	X	X	X	X		X
8.Food consumption patterns: consumers' behavior, quality of products, diet and nutrition	X				X									X		X
9.Agricultural and food policies	X	X			X			X		X	X		X	X		X
10. Sustainable management of water and other resources used by agriculture	X	X	X	X	X	X	X			X	X	X	X	X		X
11. Landscape and spatial management, competition with other land uses, peri-urban and urban agriculture	X				X	X						X	X			X

Lessons and perspectives

State of the play

- Complexity of the scientific challenges
- Need to produce innovation, to contribute to economic development
 Contribution to the economic development
- Fragmentation and insufficient forces in research

What to do?

- Develop various initiatives. We need simultaneously: Networks of researchers, of laboratories, research organisations, programme owners and funding agencies
- The priorities and actions to be done should be differentiated function of the subtopics (PPP, research facilities sharing, training of young researchers, mobility)
- Some priorities for further actions :
 - Joint actions by National Research Organisations and funding agencies
 - SMEs (and other end users) involved in research projects
 - Training and Mobility included in research projects
- Build a framework for long term cooperation

Thanks for your attention



