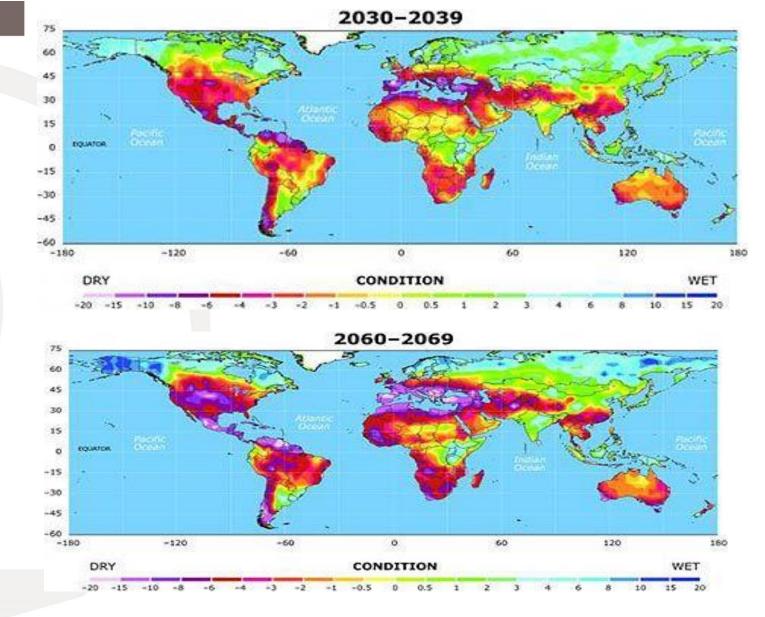




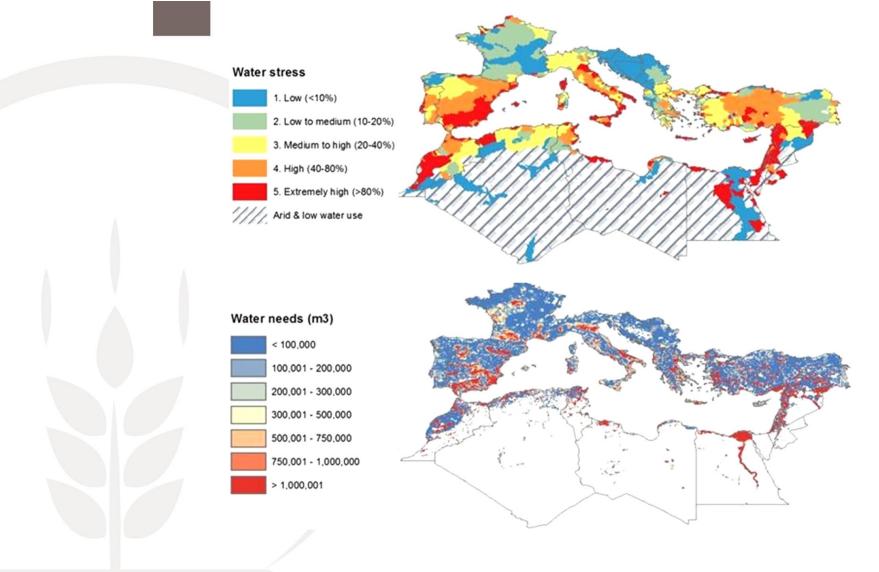
Angelo Riccaboni

Chair Fundación PRIMA, Barcelona Professor of Business Administration University of Siena, Italy



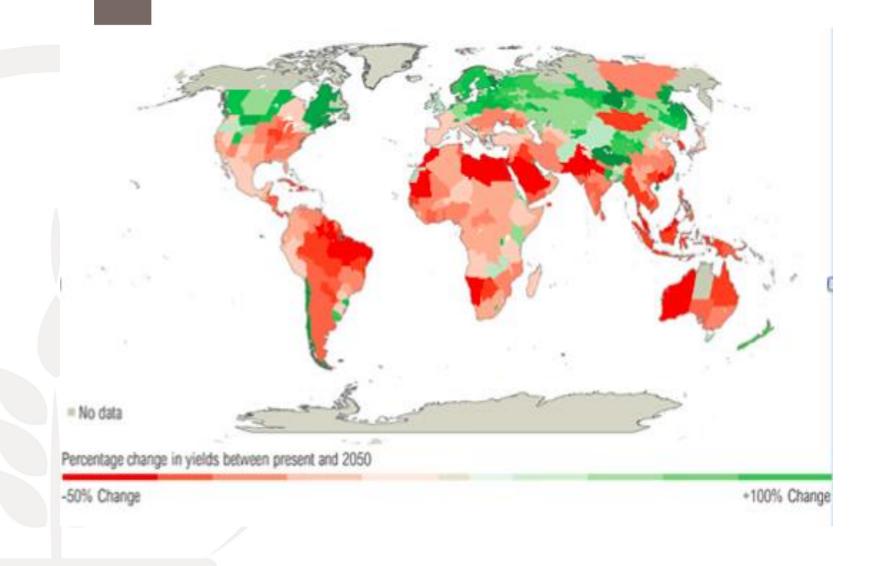
Strong effect of climate change on drought in the MED Area





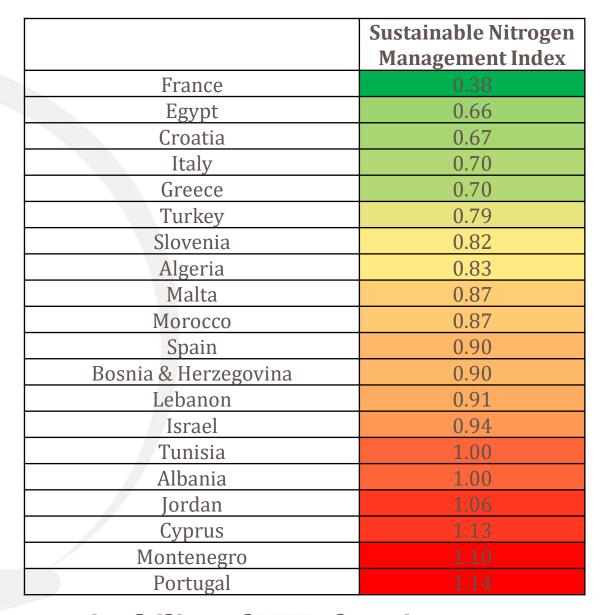
Severe water stress affects MED Countries Strong water needs for Agriculture, up to 85%





Reduction in crop yields and overexploitation of natural resources





Low sustainability of MED farming systems



- Declining genetic diversification of food crops and animal breeds
- Local varieties replaced by a small number of improved nonnative varieties
- Speeded up by climate change



Agro-biodiversity loss





Unbalanced population growth



	Sustainable Nitrogen
	Management Index
France	0.38
Egypt	0.66
Croatia	0.67
Italy	0.70
Greece	0.70
Turkey	0.79
Slovenia	0.82
Algeria	0.83
Malta	0.87
Morocco	0.87
Spain	0.90
Bosnia & Herzegovina	0.90
Lebanon	0.91
Israel	0.94
Tunisia	1.00
Albania	1.00
Jordan	1.06
Cyprus	1.13
Montenegro	1.10
Portugal	1.14

Need for more & healthier food



MED Food Value Chains

1. Lack of integration

- ✓ Within the supply chain
- ✓ Within the food system
 - ✓ Within the sector

2. Lack of entrepreneurship & technological and organisational innovation

3. Lack of infrastructures

Strong competition based on price Loss of opportunities and jobs



MED agri-food systems

a.
A means and an end towards achieving the SDGs

b.MED social and environmental challenges -> MED food systems-> MED societies and environment

MED challenges do not know borders





How to deal with MED environmental and social challenges?

Technological, social and organisational Innovations



Gov R&D expenditure > 2% GDP: 3 MED Countries only

In the past: important R&I initiatives with fragmentation and overlapping

Integrated Research & Innovation initiatives needed



PRIMA

An integrated Research and Innovation Programme on food systems and water resources

19 Countries, 11 EU and 8 SEMCs, and the EC

Equal footing through Governance and organisational mechanisms

500 million euro budget over 7 years managed by PRIMA Foundation, located in Barcelona



PRIMA Partecipating States and To Be Participating State

LUXEMBOURG

11 EU Countries:

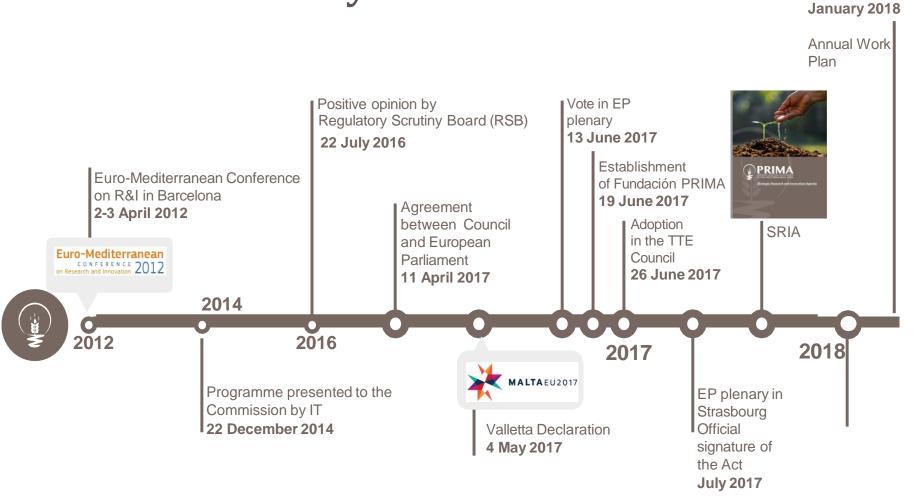
Croatia, Cyprus, France, Germany, Greece, Italy, Luxembourg, Malta, Portugal, Slovenia & Spain

8 non-EU countries:

- PS Algeria, Israel, Tunisia, Turkey
- to be Participating States (tbPS) Egypt,

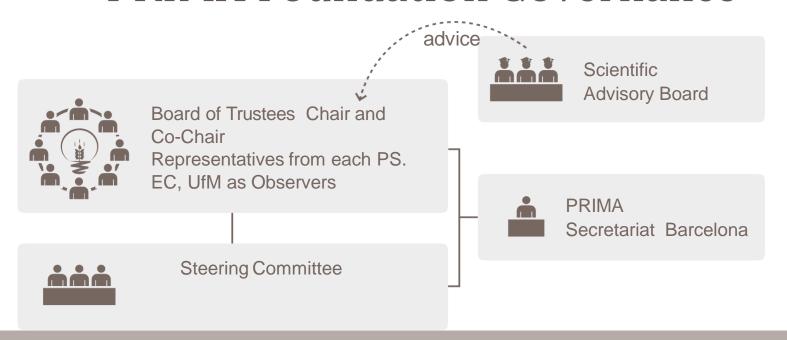


History of PRIMA





PRIMA Foundation Governance



PRIMA operates as an independent legal private entity



19 June 2017 Foundation under Spanish law



19 PSs members of Foundation



Financial contribution € 274,000 PSs € 220.000 EU





Mediterranean societies through innovative solutions in agro-food and water systems, contributing, by the end of the programme, to sustainable use of natural resources, economic growth and stability.







"

To achieve, support and promote integration, alignment and joint implementation of **R&I** initiatives under a common research and innovation strategy to address the diverse challenges in water scarcity, agriculture, food security

"





PRIMA Impacts

Economic

- Increase in production and efficiency
- Access to new markets
- Greater funding options (InnovFin programme)
- Large-scale aggregate economic impacts

Social

 Political stabiliy and reduced migration

Environmental

- Biodiversiy conservation
- Sustainable farming practices





PRIMA Main Features

- Equal footing
- Long-term commitment and orientation
- Research, Innovation and Adoption of solutions.
 avoiding fragmentation and duplications
- A common MED-wide 10-year Strategic Research and Innovation Agenda
- Institutional relationships with MED stakeholders (end users, communities, enterprises, governments)are central





PRIMA is recognisably the greatest achievement to date in Euro-Med cooperation in research and innovation. It will seek to ensure that two of people's most basic needs are met: access to clean water and nutritious food.

Commissioner for Science, Research and Innovation

Carlos Moedas

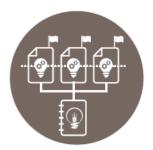


Strategic Research and Innovation Agenda SRIA





How to address MED Challenges?



ALIGNMENT OF NATIONAL R&I PROGRAMMES

Orientation of relevant national research and innovation programmes towards the implementation of the strategic agenda.



CRITICAL MASS OF ACTORS AND RESOURCES

Involvement of all relevant public and private sector actors in implementing the strategic agenda by pooling knowledge and financial resources to achieve the necessary critical mass.



STRENGTHENING R&I CAPACITIES

Strengthening of the research and innovation funding capacities and of the implementation capabilities of all actors involved including SMEs, academia, non-governmental organisations and local research centres.



3 Main Thematic Areas





MANAGEMENT OF WATER

Integrated and sustainable management of water for arid and semi-arid Mediterranean areas





FARMING SYSTEMS

Sustainable farming systems under Mediterranean environmental constraints





AGRO-FOOD VALUE CHAIN

Sustainable Mediterranean agro-food value chain for regional and local development



Thematic Area 1



MANAGEMENT OF WATER

Integrated and sustainable management of water for arid and semi-arid Mediterranean areas

RESEARCH AND INNOVATION PRIORITY	LINK TO OPERATIONAL OBJECTIVE	MAIN ACTIONS	TRL
1 Water resources availability and quality within catchments and aquifers	2/LAND AND WATER SUSTAINABILITY	RIA	2 to 5
2 Sustainable, integrated water management	2/LAND AND WATER SUSTAINABILITY 3/WATER GOVERNANCE SYSTEMS	RIA and CSA	3 to 6
3 Irrigation technologies and practices	1/WATER SAVING SOLUTIONS	RIA and IA	4 to 8
4 Use of alternative water resources	1/WATER SAVING SOLUTIONS 3/WATER GOVERNANCE SYSTEMS	RIA and IA	5 to 8



Thematic Area 2



FARMING SYSTEMS

Sustainable farming systems under Mediterranean environmental constraints

RESEARCH AND INNOVATION PRIORITY	LINK TO OPERATIONAL OBJECTIVE	MAIN ACTIONS	TRL
Adaptation of agriculture to climate change	4/ SMART AND SUSTAINABLE FARMING	RIA	2 to 5
Developing sustainable and productive agro-ecosystems	4/ SMART AND SUSTAINABLE FARMING	RIA and IA	2 to 7
Preventing the emergence of animal and plant diseases	5/ PESTS AND PATHOGENS IN FARMING	RIA	2 to 6
Developing farming systems able to generate income, to create employment and to contribute to a balanced territorial development	4/ SMART AND SUSTAINABLE FARMING	RIA and CSA	2 to 5



Thematic Area 3



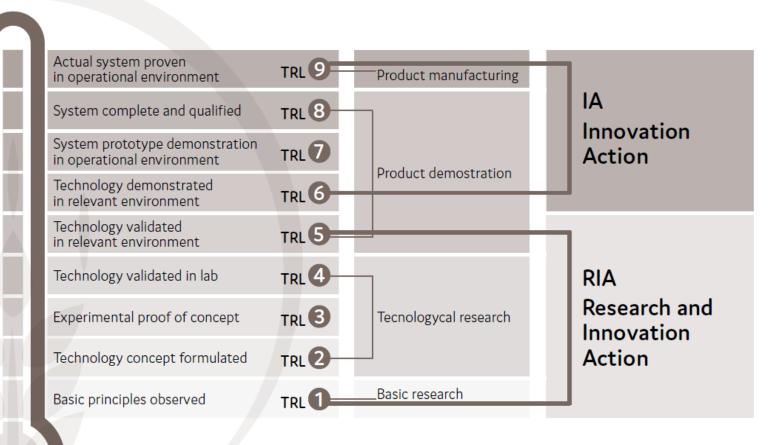
AGRO-FOOD VALUE CHAIN

Sustainable Mediterranean agro-food value chain for regional and local development.

RESEARCH AND INNOVATION PRIORITY	LINK TO OPERATIONAL OBJECTIVE	MAIN ACTIONS	TRL
1 Valorising food products from traditional Mediterranean diet	6/ NUTRITION AND HEALTH	RIA and CSA	2 to 7
2 Food Safety in local food chains	7/ REDUCE LOSSES AND WASTES	RIA	2 to 6
3 Implementation of innovation in the Agro-food chain, promoting higher quality, sustainability and competitiveness, with particular reference to smallholders	7/ REDUCE LOSSES AND WASTES 8/ NEW AGRO-FOOD BUSINESS MODELS	RIA and IA	4 to 8
Implications of dietary shifts and sustainable diets for the Med populations and food industry	6/ NUTRITION AND HEALTH	RIA and CSA	2 to 6



Technology Readiness Levels (TRLs)





Cross-cutting themes and activities

Cross-cutting themes

Cross-cutting technologies and approaches



SUSTAINABILITY











CAPACITY BUILDING



PRIMA programme structure



SECTION 1 Transnational calls for proposals



SECTION 2 Transnational calls for proposals



SECTION 3 PSIAs and activities supporting programme operations

Call publication







PRIMA-IS

selection

Projects funded by

Projects monitored bv

Rules for participation





























Type of Grants

RIA Research and Innovation Action

Funding available for collaborative research projects tackling clearly defined challenges which can lead to the development of new knowledge or new technology.

Funding rate: 100%

IA Innovation Action

Funding available for closer-to-the-market activities including prototyping, testing, demonstrating, piloting, scaling-up etc. for new or improved products, processes or services

Funding rate: 70%

(Except for non profit organisation where 100% applies)



Rules of participation

The minimum number of participants is **three**. Consortia must be composed **by at least three independent legal entities established in three different countries** considered to be PRIMA Participating States, of which:

- At least one established in a Member State or third country associated to Horizon
 2020 (and does not fall under the following point):
 - ✓ Croatia, Cyprus, France, Italy, Germany, Greece, Luxembourg, Malta, Portugal, Slovenia, Spain
- At least one established in a third country bordering the Mediterranean sea:
 - ✓ Algeria, Tunisia, Turkey, Israel. **tbPS***: Egypt, Jordan, Lebanon, Morocco.

* **tbPS**: The international agreement between the countries and the EC has to be concluded before the signature of the Grant Agreement between PRIMA IS and the beneficiaries (to allow the eligibility of the entities from the concerned countries).





Section 1: RIA and IA calls

Three calls: a specific call per thematic area. One guidelines per call









Submission on-line:

www.prima-med.org*

january	february	march	april	may	june
15/01 Preannouncement	08/02 - 1° Stage Announcement		17/04 - 1° Stage Submission Deadline for pre-proposals		15/06 - 1° Stage Evaluation results
july	august	september	october	november	december
	15/08 - 2° Stage opening of the submission website	15/09 - 2° Stage Submission Deadline For full proposals			05/12 - 2° Stage Evaluation results

*To be operational by mid January for the publication of the pre announcement.
All the documents (guidelines, templates...) will be online by the launching of the calls





Section 2: RIA calls

Only one call with 9 topics One unique guidelines for applicants

Topic 1.1: Water resources availability and quality within catchments and aquifers

Topic 1.2: Sustainable, integrated water management

Topic 1.3: Irrigation technologies and practices

Topic 2.1: Adaptation of agriculture to climate change

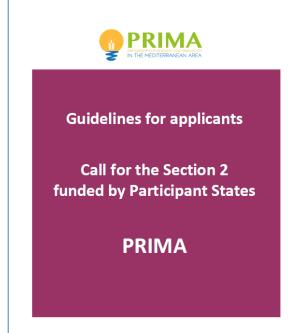
Topic 2.2: Preventing emergence of animal and plant diseases

Topic 2.3: Developing farming systems able to generate income, to create employment and to contribute to a balanced territorial development

Topic 3.1 Valorising food products from traditional Mediterranean diet

Topic 3.2: Food Safety in local food chains

Topic 3.3 Implications of dietary shifts and sustainable diets for the Med populations and food industry







Section 2 Call calendar 2018

for applications

Submission on-line:

www.prima-med.org*

january	february	march	april	maj	june
15/01 Preannouncement	08/02 - 1° Stage Announcement	27/03 - 1° Stage Deadline for applications			06/06 - 1° Stage Evaluation results
july	august	september	october	november	
	04/08 - 2° Stage Opening of the submission	04/09 - 2° Stage Deadline			05/12 - 2° Stage Evaluation results

*To be operational by mid January for the publication of the pre announcement.
All the documents (guidelines, templates...) will be online by the launching of the calls

submission website



Evaluation Criteria

CRITERIA H2020 for both section 1 and 2:

EXCELLENCE / 5 points
IMPACT / 5 points
QUALITY AND EFFICIENTY OF THE IMPLEMENTATION (Only for step 2) / 5 points

For **IA** the criteria "impact" has a weight of 1.5

Thresholds:

Section 1.

Step 1: 4 points for each criteria

Step 2: 3 points for each criteria and at least 10/15 in total

Section 2.

Step 1: 3.5 points for each criteria

Step 2: 3 points for each criteria and at least 10/15 in total



	Section 1	Section 2
Call evaluation	2 step	s: Pre-proposal & full proposal
Consortium eligibility and admissibility	According to the guidelines for applicants H2020 rules	According to the National Regulations (double eligibility check PRIMA and Funding Bodies)
Template to be used (different for step 1 and step 2)		nts/data/ref/h2020/call_ptef/pt/2018-2020/h2020-call-pt-ria-ia- 20_en.pdf under preparation
Documents required		et per partner for step 1 and full detailed budget for step 2 step 1; 70 pages step 2) / CV of the PI and operational capacity
Evaluation panel	1 per call 1 ranking list per call 3 ranking lists in total	1 unique panel. 1 unique ranking list
Indicative amount allocated	18 milion	30 milion
Expected number of grants	6 to 9	20 to 30
Project Budget	Around 2 M€ / project	According to National regulations
Grant Agreement	Between PRIMA and the consortium	Each partner sign a contract with its national funding body
Consortium Agreement	Mandatory before signing the GA	Mandatory (written in the AWP)
Project monitoring	By PRIMA: Mid term (M18) and final report (M36)	 By the Funding bodies: According to their national criteria By PRIMA: Mid term (M18) and final report (M36)
Duration of the projects	3 years (Under discussion for 5 year)	3 years (under discussion)





SECTION 3 PSIAs (Participant States Initiated Activities) &

Activities supporting PRIMA

- Capitalization on results achieved by research and innovation projects;
- Networking, engagement and communication to stakeholders;
- Synergies with other related initiatives;
- Potential impact of PRIMA on Mediterranean societies including migrations;
- Enhancing Youth entrepreneurship;
- Assessment of PRIMA impacts in SDGs perspective.









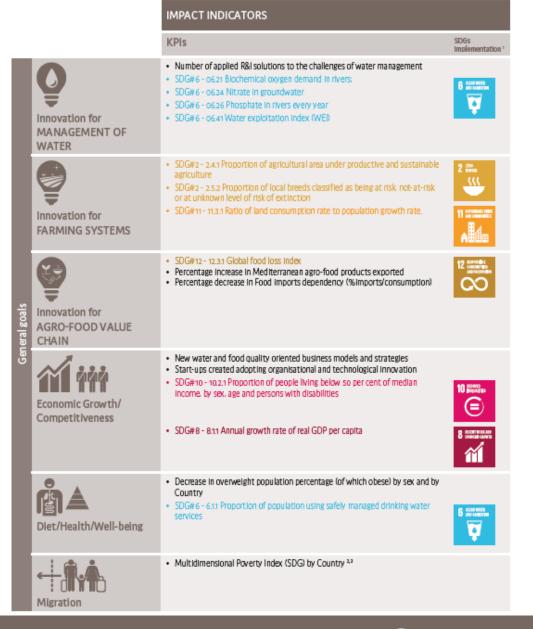








PRIMA Impact indicators





Outcome indicators



KEY PERFORMANCE INDICATORS ADOPTED TO MEASURE THE IMPACT OF THE PRIMA PROGRAMME

Specific objective #1 ALIGNMENT OF NATIONAL R&I PROGRAMMES

Outcome Indicators

- Number of new programmes integrating national initiatives in the scope of PRIMA:
- · Number of harmonized national rules for participation in PRIMA activities;

Specific objective #2 CRITICAL MASS OF ACTORS AND RESOURCES

Outcome Indicators

- · Number and type of stakeholders involved;
- · Networks of researchers/ innovators stemming from PRIMA projects;
- · Number of Entreprises/Organisations increasing PRIMA funds.

Specific objective #3 STRENGTHENING R&I CAPACITIES with particular attention to entrepreneurship skills and innovation culture

Outcome Indicators

- Number of capacity building activities supported in terms of number of fellowships trainees (MSc, PhDs) and mobility shemes;
- Number of new young entrepreneurs adopting technologies/organisational innovations developed in the frame of PRIMA projects.



Outcome indicators



1/MANAGEMENT OF WATER

- Water resources availability:
- Sustainable integrated water management:
- (3) Irrigation technologies:
- Use of alternative water resources

- Number of new modelling routines for determining basic components of water cycle related to groundwater accumulation;
- Number of efficiency enhanced technologies for wastewater treatment for unconventional renewable water resource production;
- Number and efficiency performance of new irrigation technologies and scheduling protocols and models;
- · Number of water treatment technologies for specific irrigation requirements.



2/ FARMING SYSTEMS

- Adaption of agriculture to climate change;
- 2 Developing sustainable and productive agroecosystems;
- Preventing emergence of animal and plant diseases:
- Developing farming systems, create employment etc.

- · Number of new varieties/species adaptable to climate change:
- Improved Knowledge of soil erosion mechanisms to enhance fertility and mitigate salinization under conditions of water scarcity improving nutrient balance:
- Number of integrated solutions for pest and diseases management for plant and animal production systems:
- Number of innovations in farming systems developed enabling sustainable and efficient agriculture and food systems.



3/ AGRO-FOOD VALUE CHAIN

- Valorising food products:
- and sales in the sales of the s
- Pood safety in local chains:
- 3 implementation of innovation in the agro-food chain:
- Implications of dietary shifts.

- Number of new food products with enhanced shelf-life quality and healthrelated beneficial properties:
- Number of innovative solutions aimed to improve quality control mechanisms and techniques throughout supply chains:
- Number of business models for quality and sustainability adapted to SME and smallholders:
- Number of raising awareness campaign promoting an environment conducive to healthy food choices through appropriate incentives and information provision to consumers and policy makers.



Operational indicators

\sim \sim \sim	$\Lambda + I \cap \Lambda$	ICATORS
	α α α	

KPIs

	KPIS
Development of a SRIA	Number of meetings/events/participants
Joint transnational calls for proposal	 Number of calls, number of proposals submitted/funded; time to contract, time to grant, time to pay.
Networking activities, Stakeholder involvement, Knowledge-sharing/Dissemination, Mobility/Training	 Number of events; Participation of industry/society in the implementation; Number of events/schemes; Number of participants.



The next future

- 1. Launch of first calls
- 2. Preparation of partnerships for calls
- 3. Creation of a strong PRIMA Platform Network among research centers, universities, enterprises, consumers



PRIMA aims in short

- 1. To strengthen MED Area's knowledge and innovation base, to meet water and food needs
- 2. To promote mutual understanding and capacity-building, building bridges between nations
- 3. To foster economic growth in a sustainable and inclusive way

Key role of researchers, innovators, enterprises and food value chains to implement Agenda 2030





THANK YOU FOR YOUR ATTENTION

prima@unisi.it www.prima4med.org