

The PRIMA 2019 Annual Work Plan



PRIMA

PARTNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA

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PRIMA Foundation - *Project Coordinator*

#PRIMAinfoday

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- Strategic orientation & highlights of Call 2019
 - Content of the Calls
 - Type of Actions
 - Budget
 - Calendar
 - Topics description



What are the highlights for 2019 Calls



Enhance innovation potential in the Mediterranean Area

- Open the way to Living labs (open innovation model)
- Promote a multi-actor approach (H2020)
- Increase the number of Innovation Actions

What are the highlights for 2019 Calls



New areas and opportunities by:

- Water-Environment-Food Nexus.
- Capacity building
- Focus on impacts



**SUSTAINABLE
DEVELOPMENT** **GOALS**

Monitoring impacts KPIs

KPIs present in all type of Actions



KPI Improved capacity of R&I organisations

KPI New practices for R&I organisations



KPI 1 Number of new modelling routines

KPI 2 Number of efficiency enhanced technologies for wastewater treatment

KPI 3 Number of new irrigation technologies and protocols



KPI 4 Number of new varieties/species adaptable to climate change;

KPI 5 Number of integrated solutions for pest and diseases management for plant and animal production systems;



KPI 7 Number of new food products with enhanced shelf-life, quality and healthy related beneficial properties;

KPI 8 Number of innovative solutions aimed to improve quality control mechanisms and techniques throughout supply chains;

KPI 9 Number of business models for quality and sustainability



KPI Start-ups created adopting organisational and technological innovation



PRIMA implementation Programme Structure



SRIA Priorities in PRIMA AWP 2018



- S2 ▶ **Priority 1 Water resources availability and quality within catchments and aquifers**
- S2 ▶ **Priority 2 Sustainable, integrated water management**
- S2 ▶ **Priority 3 Irrigation technologies and practices**
- S1 ▶ **Priority 4 Use of alternative water resources**



- S2 ▶ **Priority 1 Adaptation of agriculture to climate change**
- S1 ▶ **Priority 2 Developing sustainable and productive agro-ecosystems**
- S2 ▶ **Priority 3 Preventing and control animal and plant diseases**
- S2 ▶ **Priority 4 Developing farming systems able to generate income, to create employment and to contribute to a balanced territorial development**



- S2 ▶ **Priority 1 Valorising food from the Mediterranean diet**
- S2 ▶ **Priority 2 Food Safety in local food chains**
- S1 ▶ **Priority 3 Implementation of innovation in the Agro-food chain, promoting higher quality, sustainability and competitiveness, with particular reference to smallholders**
- S2 ▶ **Priority 4 Implications of dietary shifts and sustainable diets for the Med populations and food industry**

SRIA Priorities in PRIMA AWP 2019



- ▶ Priority 1 Water resources availability and quality within catchments and aquifers
- ▶ Priority 2 Sustainable, integrated water management
- ▶ Priority 3 Irrigation technologies and practices
- ▶ Priority 4 Use of alternative water resources

1 Topic S1
2 Topics S2



- ▶ Priority 1 Adaptation of agriculture to climate change
- ▶ Priority 2 Developing sustainable and productive agro-ecosystems
- ▶ Priority 3 Preventing and control animal and plant diseases
- ▶ Priority 4 Developing farming systems able to generate income, to create employment and to contribute to a balanced territorial development

2 Topics S1
2 Topics S2



- ▶ Priority 1 Valorising food from the Mediterranean diet
- ▶ Priority 2 Food Safety in local food chains
- ▶ Priority 3 Implementation of innovation in the Agro-food chain, promoting higher quality, sustainability and competitiveness, with particular reference to smallholders
- ▶ Priority 4 Implications of dietary shifts and sustainable diets for the Med populations and food industry

1 Topic S 1
2 Topic S 2

2 Topics S1

Novelty



Indicative PRIMA Call 2019 Content

Section 1, four Calls

THEMATIC AREAS



1. Thematic area water management



2. Thematic area farming system



3. Thematic area food value chain

4. Thematic area Nexus

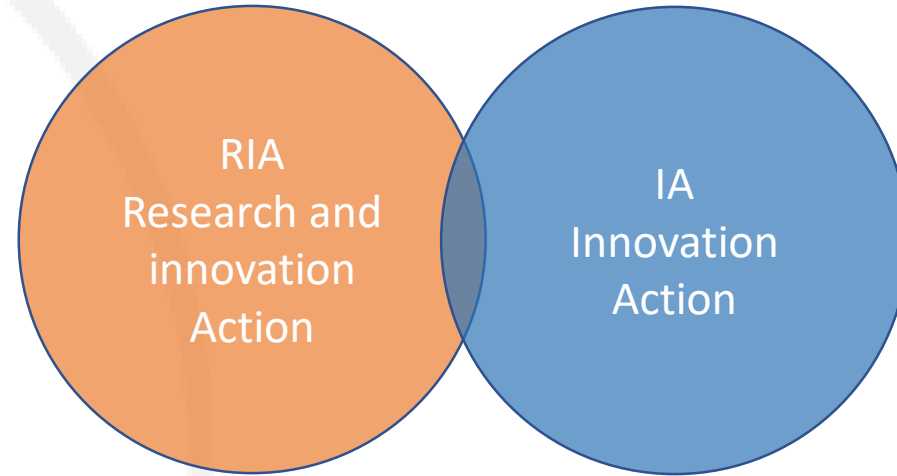


Section 2, a single multi-topic Call

THEMATIC AREA:

Agro-Food value chain, Farming systems, Management of water

Type of Actions



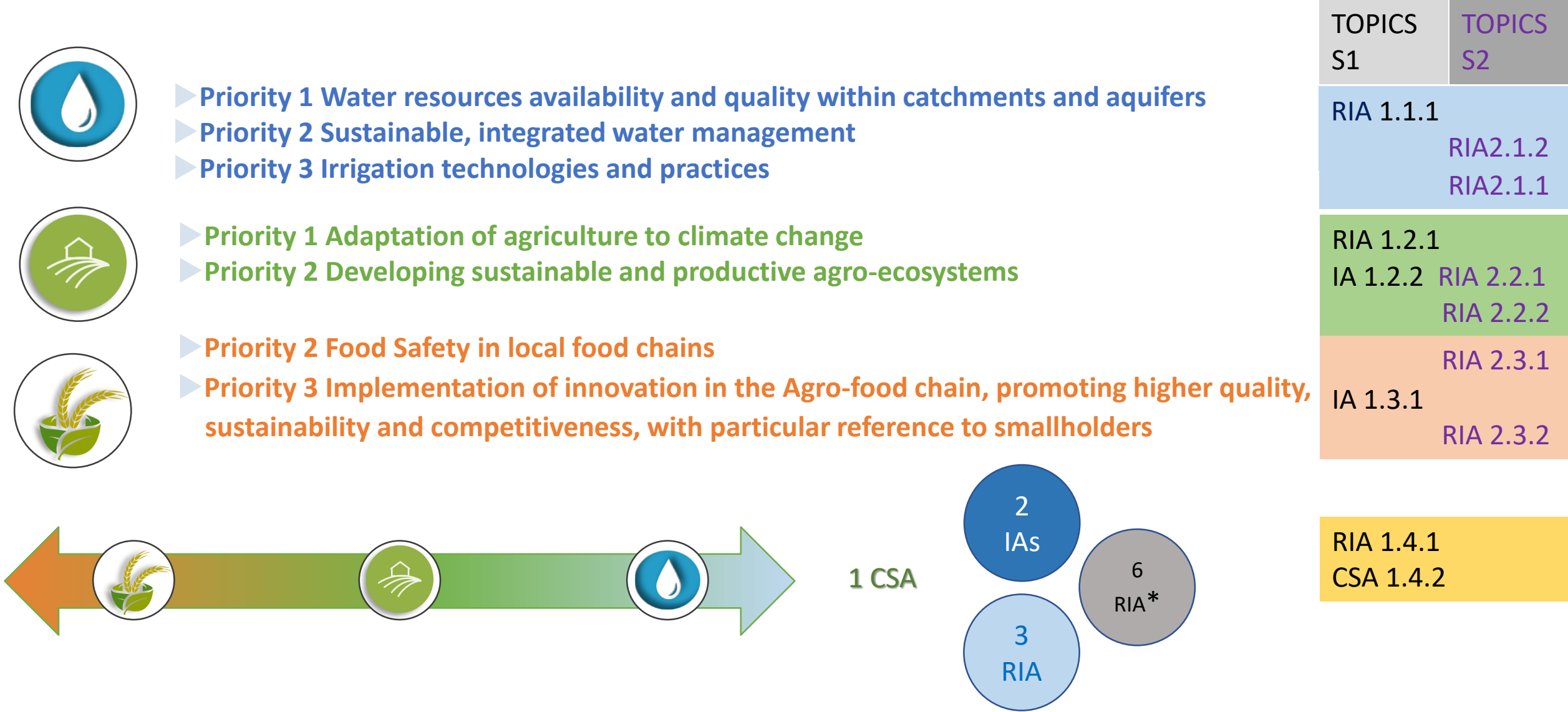
TRL 3 TRL 4 TRL 5 TRL 6 TRL 7 TRL 8

CSA Coordination and Support Action, NO links with TRLs



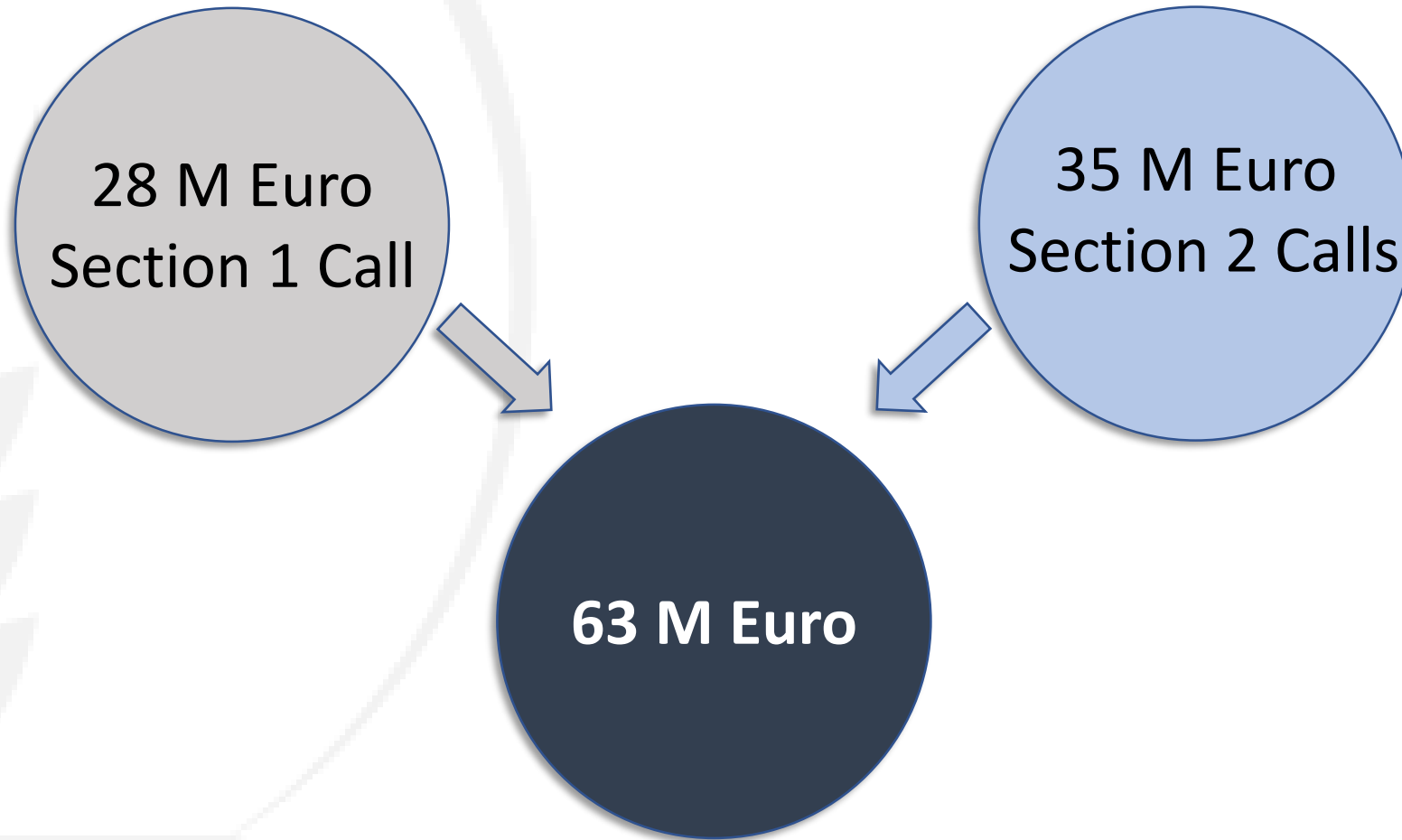
* Analogous to RIA, According to National Regulations

Strategic Priorities Allocation of Topics in 2019 Calls

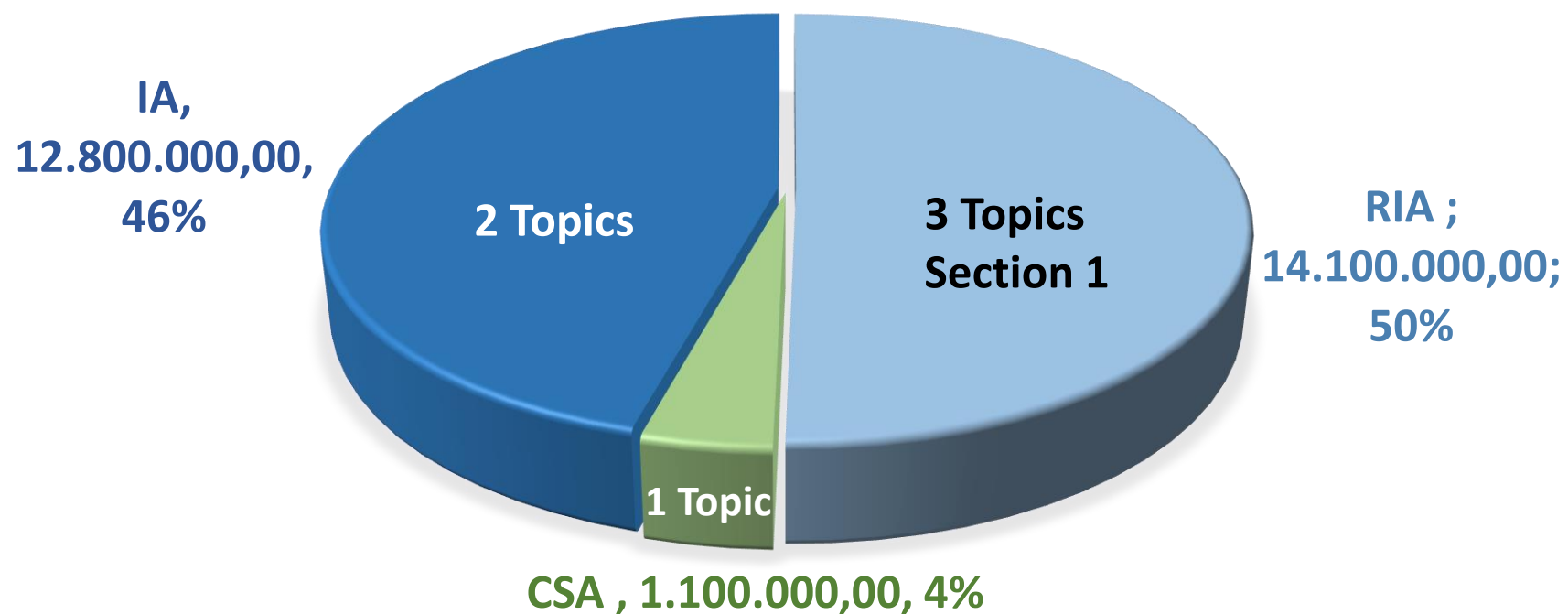


Section and call	Call	Total Call Budget	Budget per Topic	Type of Action	N. of expected grants	TRL	Funding Rate	Expected duration of projects	Total Budget per Section
Section 1	1-Call Water	6.400.000	6.400.000	RIA	Up to 4	3 to 5	100%	36-48 Months	28 M
	2-Call Farming	10.900.000	4.500.000	RIA	Up to 3	3 to 5	100%	36-48 Months	
			6.400.000	IA	Up to 4	5 to 8	70 or 100%	36-48 Months	
	3-Call Agro-food	6.400.000	6.400.000	IA	Up to 4	5 to 8	70 or 100%	36-48 Months	
	4-Call Nexus	4.300.000	3.200.000	RIA	Up to 2	3 to 5	100%	36-48 Months	
			1.100.000	CSA	1	NA	100%	Appr. 36 Months	
Section 2	Single call	34.950.000	34.950.000	RIA	Appr. 35	NA	depending on National Regulations	36 Months	35 M
Total					Appr. 53				63 M Euro

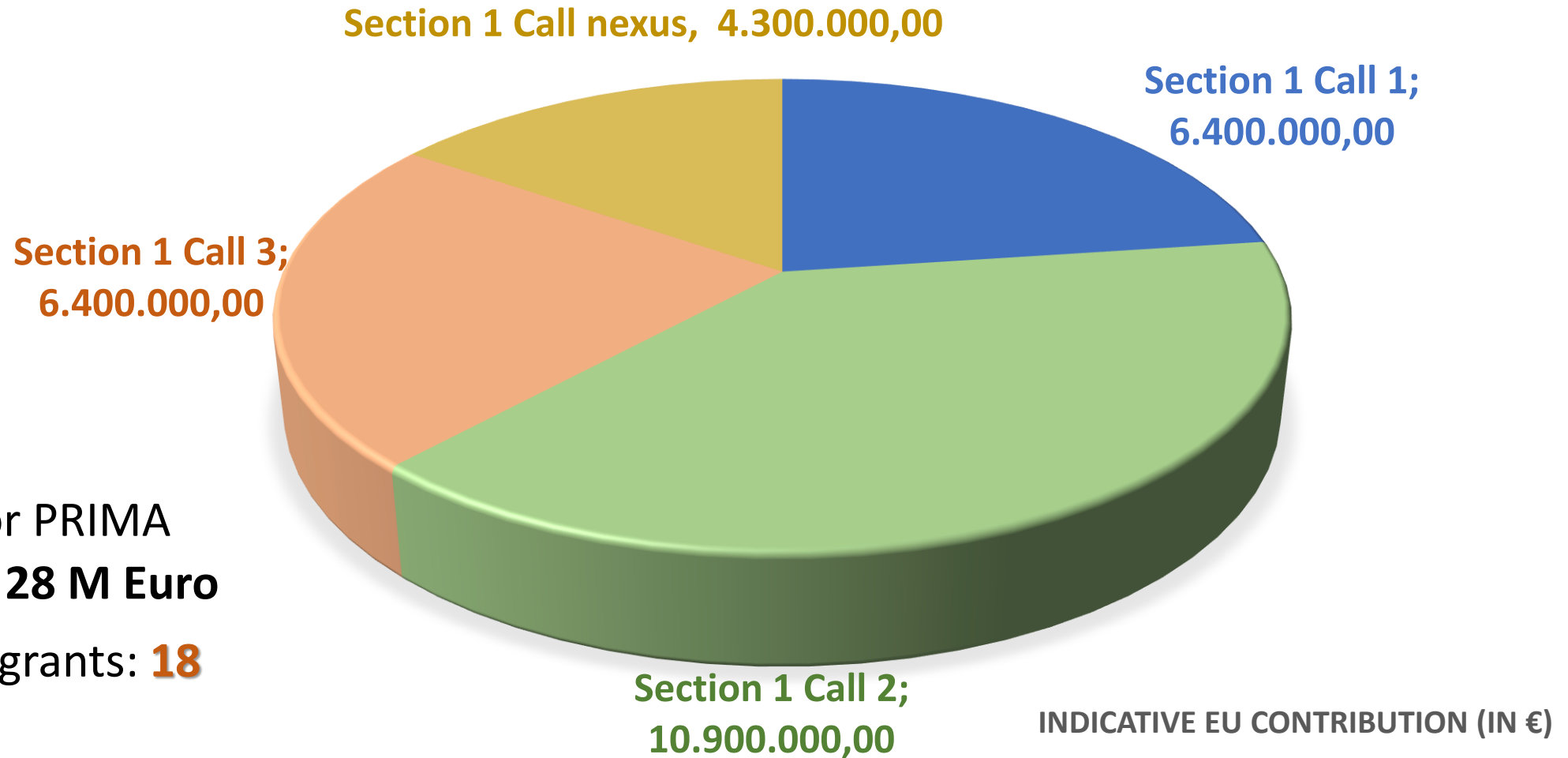
Total Budget for 2019 Calls



Section 1 Calls Budget/Type of Action



Section 1 Calls Budget/Thematic Area



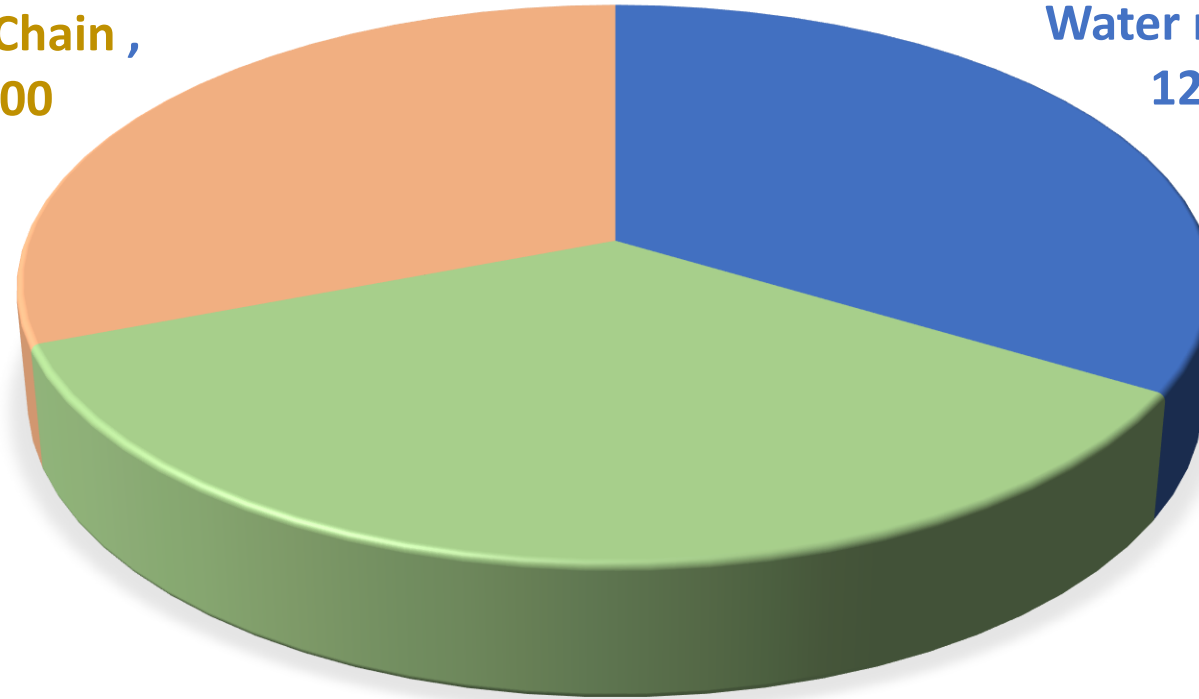
Total Budget for PRIMA
Section 1 Calls: **28 M Euro**
N. of expected grants: **18**

Section 2 Calls Budget/Thematic Area



Food Value Chain ,
11.066.000

Water management;
12.062.000



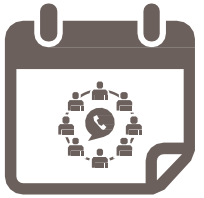
Farming System,
12.720.000

Total Budget for PRIMA

Section 2 Calls: **35 M**

N. of expected grants: **35**

Calendar 2019 Calls **Section 1** and **Section 2**



Call launch: 18 December 2018 -Open for proposals



Call closure Stage 1: Submission of pre-proposals → **21 February S2**
28 February S1

Evaluation process Results → **17-20 May S1**
10 June S2



Call closure Stage 2: Submission of full proposals → **16 July S1**
4 September S2

Results Announcement: tentative December 2019

Signature of grant agreements: (max 8 months after the full proposals submission deadline)

Standard eligibility conditions

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** is established in a EU Member State (Croatia, Cyprus, France, Germany, Greece, Italy, Luxembourg, Malta, Portugal, Slovenia, Spain)
- At least **one** is established in a third country bordering the Mediterranean Sea: Algeria, Tunisia, Turkey, Israel, Jordan, Lebanon, Egypt, Morocco.



- ▶ **Priority 1** Water resources availability and quality within catchments and aquifers
- ▶ **Priority 2** Sustainable, integrated water management
- ▶ **Priority 3** Irrigation technologies and practices



- ▶ **Priority 1** Adaptation of agriculture to climate change
- ▶ **Priority 2** Developing sustainable and productive agro-ecosystems



- ▶ **Priority 2** Food Safety in local food chains
- ▶ **Priority 3** Implementation of innovation in the Agro-food chain, promoting higher quality, sustainability and competitiveness, with particular reference to smallholders



TOPICS
S1

TOPICS
S2

RIA 1.1.1

RIA2.1.2
RIA2.1.1

RIA 1.2.1

IA 1.2.2 RIA 2.2.1
RIA 2.2.2

RIA 2.3.1

IA 1.3.1
RIA 2.3.2

RIA 1.4.1

CSA 1.4.2

6 topics
S1

6 topics
S2

Management of water – Calls and topics 2019



- ▶ **Priority 1 Water resources availability and quality within catchments and aquifers**
- ▶ **Priority 2 Sustainable, integrated water management**
- ▶ **Priority 3 Irrigation technologies and practices**

S1

S2

RIA 1.1.1

RIA2.1.1

RIA2.1.2

Thematic Area Water management

- 💡 Topic 1.1.1 RIA Sustainable groundwater management in water-stressed Mediterranean areas

Thematic Area 1-Water management:

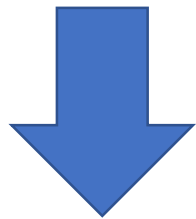
- 💡 Topic 2.1.1 RIA Bridging the gap between potential and actual irrigation performance in the Mediterranean
- 💡 Topic 2.1.2 RIA Management of low quality waters under water scarcity and climate change conditions

Topic 1.1.1 RIA Sustainable groundwater management in water-stressed Mediterranean areas

Challenge

Underground water bodies threatened by:

- overexploitation and pollution
- salinisation due to seawater intrusion (coastal areas)

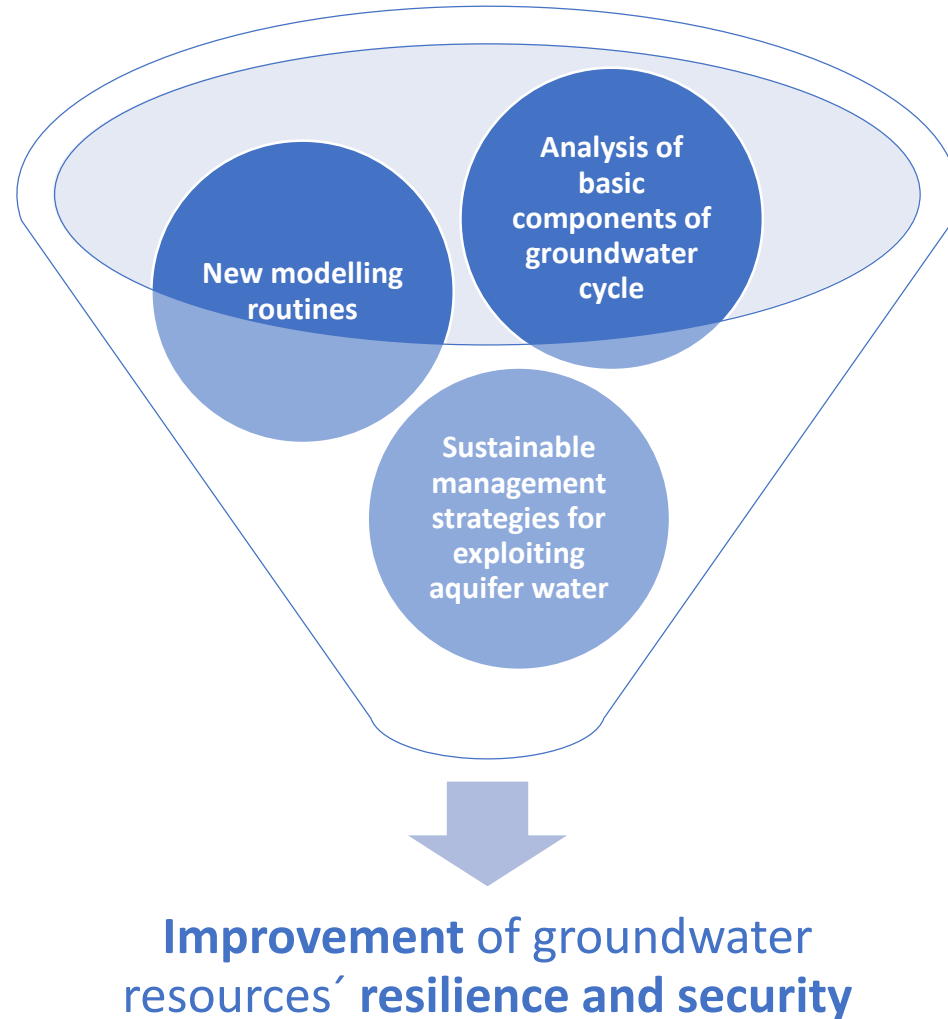


Unbearable pressure on farming activities and ecosystems!



Topic 1.1.1 RIA Sustainable groundwater management in water-stressed Mediterranean areas

Impact



Budget for the call : 6,4 M€ Budget per project: 1,6 M€
Duration 36-48 months

Topic 2.1.1 RIA Bridging the gap between potential and actual irrigation performance in the Mediterranean

Challenge

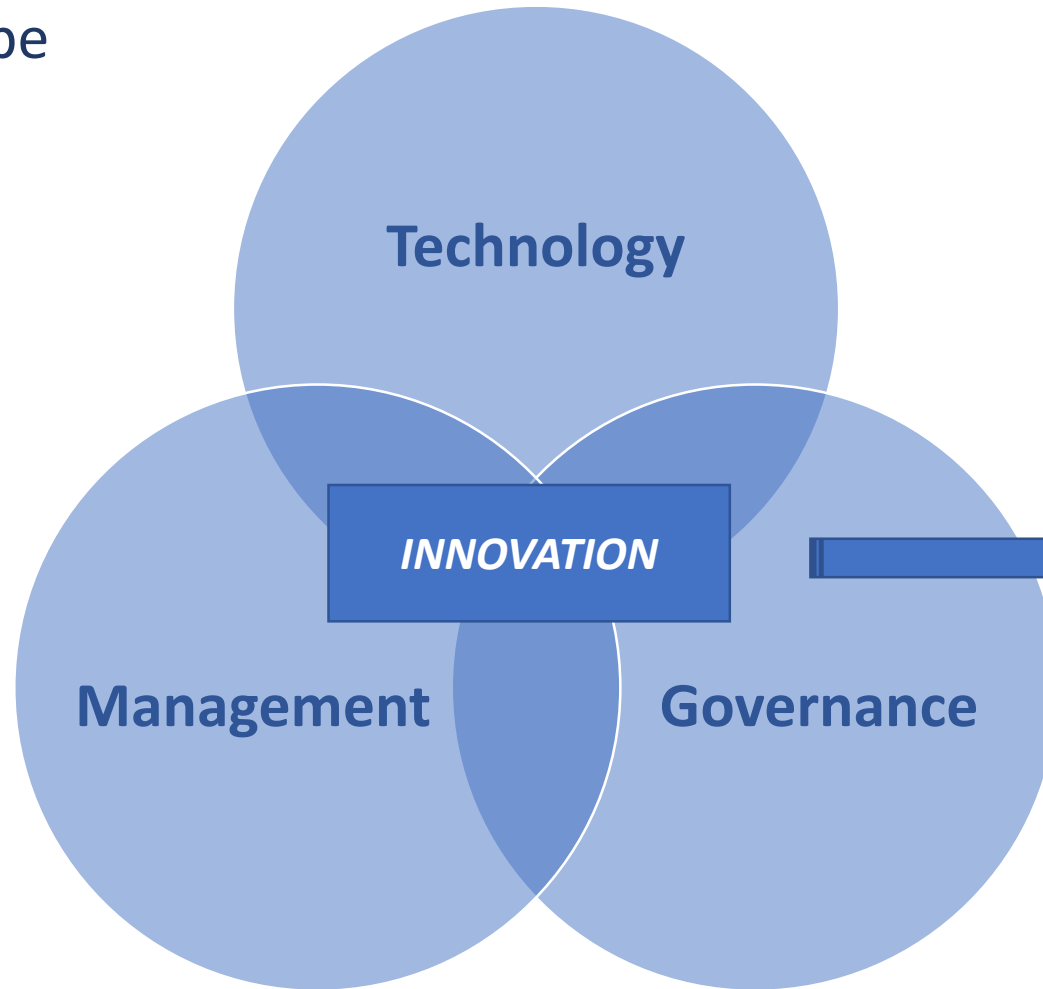
Irrigation = largest water-consuming activity in the Mediterranean basin



Wide gap between **actual water balances** and **optimum irrigation performance!**

Topic 2.1.1 RIA Bridging the gap between potential and actual irrigation performance in the Mediterranean

Scope



Reduction of the gap between *actual* and *optimal* irrigation performance

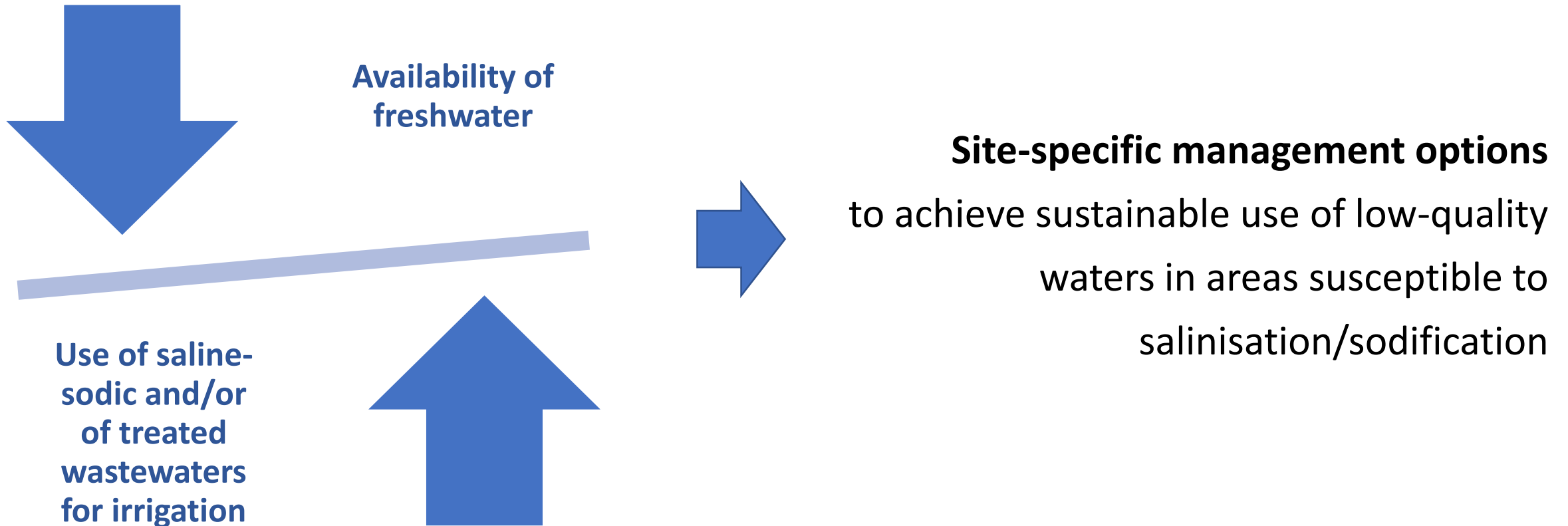


Sustainable irrigation in the Med

Budget per project: 1 M€
Duration 36-48 months

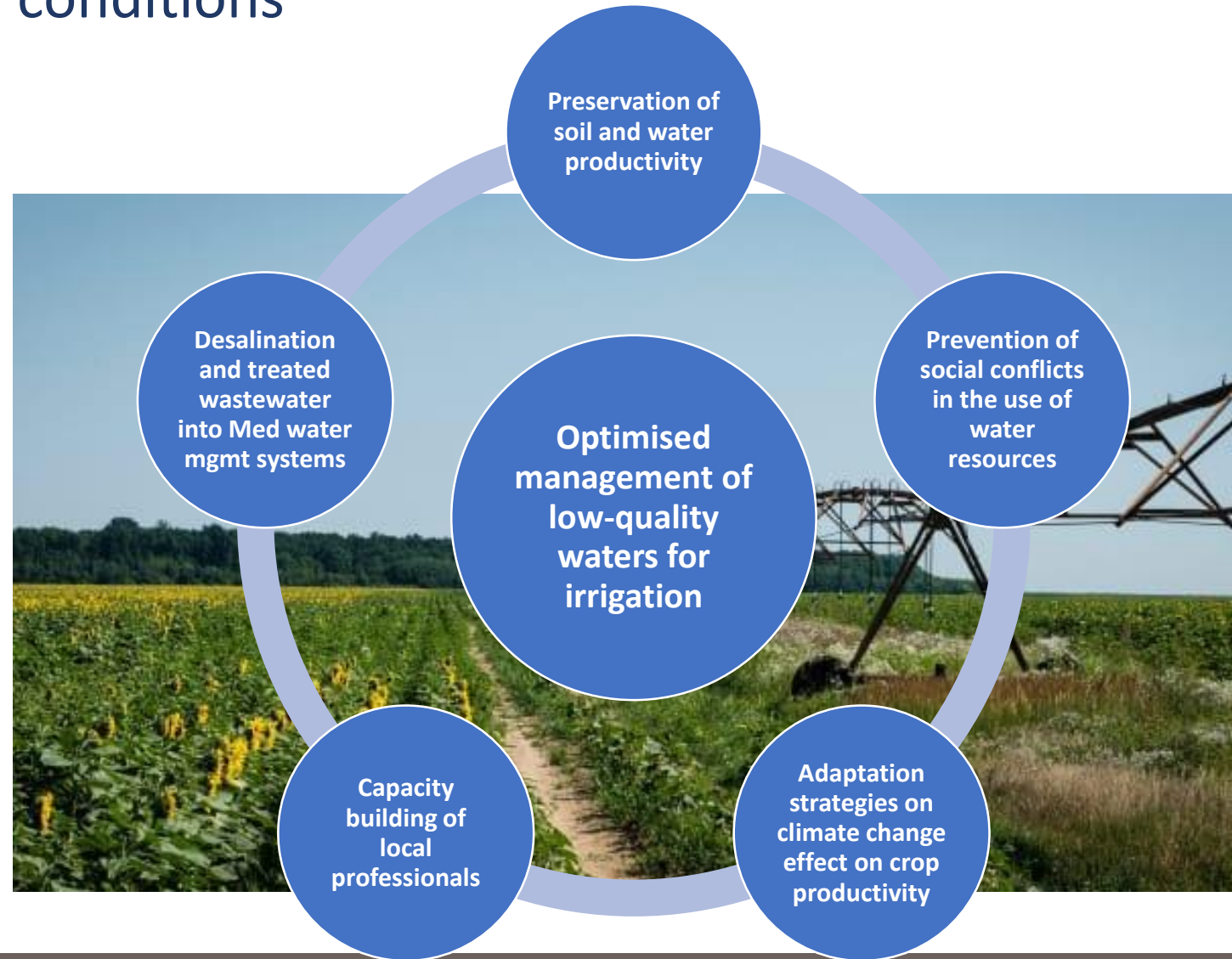
Topic 2.1.2 RIA Management of low quality waters under water scarcity and climate change conditions

Challenge



Topic 2.1.2 RIA Management of low quality waters under water scarcity and climate change conditions

Impact



Budget per project: 1 M€
Duration 36-48 months

Thematic Area Farming systems topics in 2019 calls



- ▶ **Priority 1 Adaptation of agriculture to climate change**
- ▶ **Priority 2 Developing sustainable and productive agro-ecosystems**

RIA 1.2.1

IA 1.2.2 RIA 2.2.1

RIA 2.2.2

Section 1

- 💡 Topic 1.2.1 RIA Conserving water and soil in Mediterranean dry-farming, smallholder agriculture.
- 💡 Topic 1.2.2 **IA** Sustainability and competitiveness of Mediterranean greenhouse and intensive horticulture

Section 2

- 💡 Topic 2.2.1 RIA Small scale farming systems innovation.
- 💡 Topic 2.2.2 RIA Use and management of biodiversity as a major lever of sustainability in farming systems

SECTION 1: Topic 1.2.1 RIA Conserving water and soil in Mediterranean dry-farming, smallholder agriculture

Challenge

Conservation Agriculture



Save water



Conservation soil



low cost solution

NOT ADOPTED IN THE MED AREA: WHY?

SECTION 1: Topic 1.2.1 RIA Conserving water and soil in Mediterranean dry-farming, smallholder agriculture

Scope

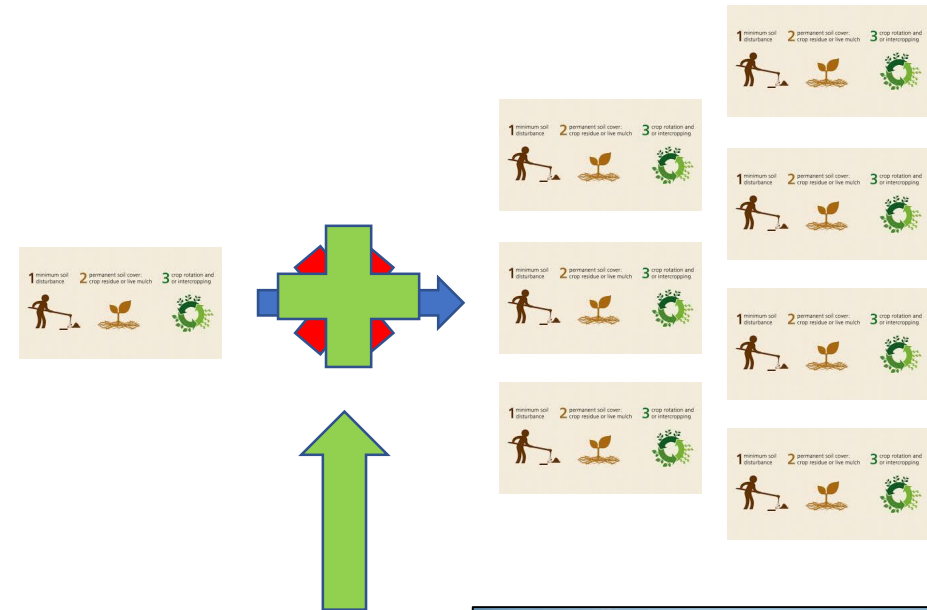
Identify the barriers for the adoption of Conservation Agriculture and to promote its use in the Med

What are the limitation?

- SOCIO ECONOMICS BARRIERS ?
- TECHNICAL / TECHNOLOGICAL BARRIERS ?
- POLICIES GAPS?
- Multidisciplinary and inter-sectorial approach



Innovations / solutions



Topic 1.2.1 RIA Conserving water and soil in Mediterranean dry-farming, smallholder agriculture

Expected Impacts



4/ SMART AND SUSTAINABLE FARMING

To develop smart and environmentally sustainable farming systems to maintain natural resources and to increase production efficiency

- Policies-technologies-products Co designed with the farmers that will facilitate the adoption of CA
- Cropping systems limiting soil erosion and increasing the water plant availability based on Conservation Agriculture concept
- Eco friendly farming systems providing benefits for the end-users
- Improve fertility of soils and yields

Budget for the call : 4,5 M€

Budget per project: 1,5M€
Duration 36-48 months

SECTION 1: 1.2.2 IA Sustainability and competitiveness of Mediterranean greenhouses and intensive horticulture

Challenge

- Greenhouses and intensive horticulture can produce food all year round
- Important for the international trade and food security



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@Geo



Unsustainable



@Energyeducation.ca



@liberation

SECTION 1: 1.2.2 IA Sustainability and competitiveness of Mediterranean greenhouse and intensive

Expected impacts

- Innovative and Competitive systems preserving the resources and the environment
- Improve working conditions
- Digital tools to assist the farmers
- Production of safe, healthy, Organic food



@Lee-Anne Armitage



@Energyeducation.ca



@Geo

Budget for the call : 6,4 M€
TRL 5-8

Budget per project: 1,6M€
Duration 36-48 months

SECTION 2: Topic 2.2.1 RIA Small scale farming systems innovation

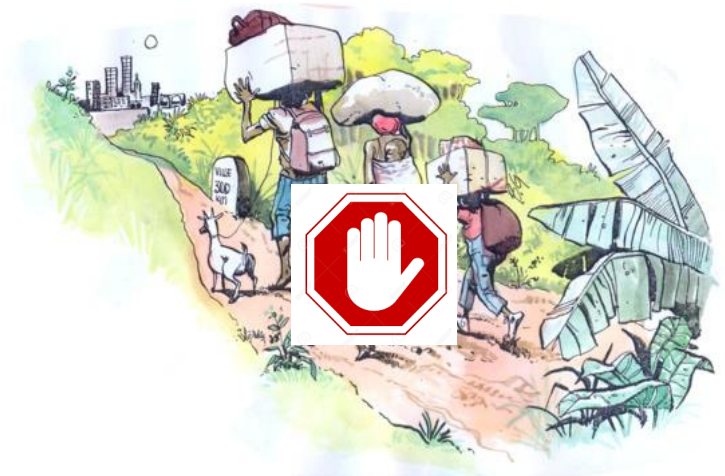
- **Challenge**

Small farmers are the main food producers but ...



Hard living conditions

Lack of information / coordination among small farmers



Technological innovations are not tailored for small holders

SECTION 2: Topic 2.2.1 RIA Small scale farming systems innovation

Creation of living labs: a tool to make innovation available to users



- Can be physical or virtual
- Provide /test solutions and innovations tailored made for small holders
- Based on agro ecological principles
- Continuous exchange between all the actors
- Ensure training and capacity building

Budget per project: 1 M€
Duration 36-48 months

SECTION 2: Topic 2.2.2 RIA Use and management of biodiversity as a major lever of sustainability in farming systems

Challenge

3 crops : maize – wheat –
Rice represents more than
50% of the vegetal calories
consumed in the world

Monoculture damage soil
and water resources

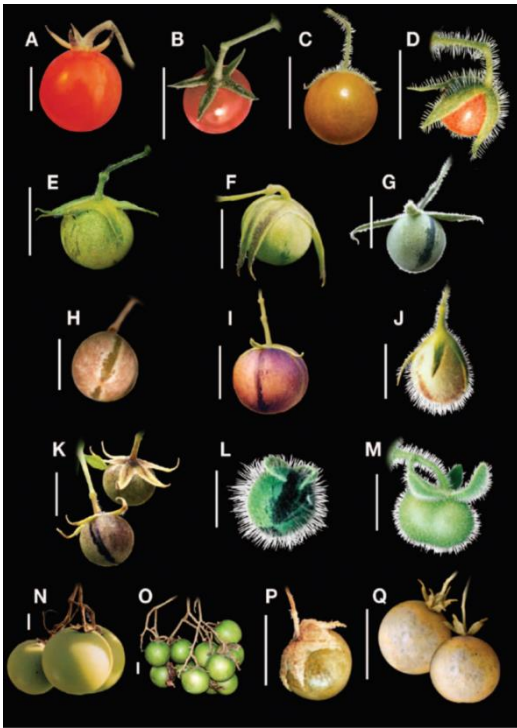
Intensive use of chemicals

Med area is a hotspot a
biodiversity



SECTION 2: Topic 2.2.2 RIA Use and management of biodiversity as a major lever of sustainability in farming systems

Scope: Develop farming systems based on agro ecological principles using and valorising local biodiversity



- Increase the biodiversity increase the resilience of the system
- New food products
- Interdisciplinary and inter-sectorial approach
- Ecological and Socio economic analysis of the sustainability of the system



SECTION 2: Topic 2.2.2 RIA Use and management of biodiversity as a major lever of sustainability in farming systems

Expected Impacts

- Increase the resilience of Agro ecosystems
- Give added value to the final / new product to increase the incomes of the farmers
- Protect and Valorise the local biodiversity



Budget per project: 1 M€
Duration 36-48 months



Thematic Area Food value chain topics in 2019 calls


- ▶ **Priority 2 Food Safety in local food chains**
- ▶ **Priority 3 Implementation of innovation in the Agro-food chain, promoting higher quality, sustainability and competitiveness, with particular reference to smallholders**

Section 1

- 💡 **Topic 1.3.1 IA** Implementation of analytical tools and digital technology to achieve traceability & authenticity control of traditional Mediterranean foods.

Section 2

- 💡 **Topic 2.3.1 RIA** Extending shelf-life of perishable Mediterranean food products
- 💡 **Topic 2.3.2 RIA** Enhancing horizontal and vertical integration in Mediterranean agro-food value-chains



Topic 1.3.1 **IA** Implementation of analytical tools and digital technology to achieve traceability & authenticity control of traditional Mediterranean foods.

SCOPE

- Development and implementation of analytical tools and technologies to achieve **traceability**, and to confirm **authenticity** of Mediterranean foods.
- Providing a robust certification and control bodies as well as creating trans-national networks of laboratories, **validating and harmonizing protocols**, sharing open-data on food products of the Mediterranean tradition.
- Building capacities of **key enabling technologies**.
- Optimising the use of pre-existing **databases and networking**

Topic 1.3.1 **IA** Implementation of analytical tools and digital technology to achieve traceability & authenticity control of traditional Mediterranean foods.

IMPACT

- Improve **confidence of consumers**;
- **Assessing food traceability and safety.**
- Increased **added-value for Mediterranean food products**;
- Foster **joint integrative activities** with existing data base networks & infrastructures in the health & food domain;
- Improve **harmonization and data interoperability**



Call Budget: 6,4 M€

Project Budget: 1,6M€
Duration 36-48 months



Topic 2.3.1 RIA Extending shelf-life of perishable Mediterranean food products

CHALLENGES





Topic 2.3.1 RIA Extending shelf-life of perishable Mediterranean food products

SCOPE

- Reduce post-farming food losses, also extending shelf-life of perishable Mediterranean foods
- Public Awareness and Capacity building
- Multi-actor approach: engaging retailers, consumers or other stakeholders including SMEs and facilitating the cooperation between different stakeholders
- Sharing of good practices

Topic 2.3.2 RIA Enhancing horizontal and vertical integration in Mediterranean agro-food value-chains

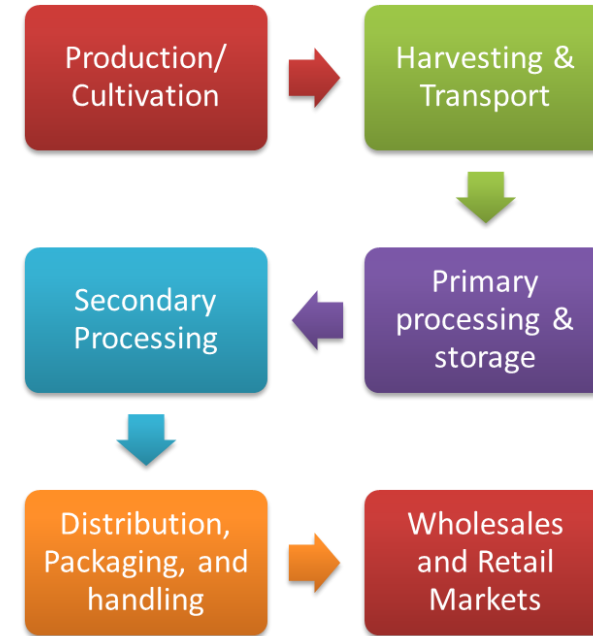
CHALLENGES




Smallholders



Cross-sectoral Interactions



Value-Chain Complexity



Topic 2.3.2 RIA Enhancing horizontal and vertical integration in Mediterranean agro-food value-chains

SCOPE

- Strengthen the **vertical** (from production to consumption) and **horizontal** (collaboration between actors in the same segment of the same or other connected value chains) **integration** of the Mediterranean agro-food value-chains.
- Promote different forms of **innovation**, i.e. organizational;
- **Multi-actor approach**
- **Innovative mechanisms and tools** supporting chain's leaders to induce greater profitability and decision making

Budget per project: 1 M€
Duration 36-48 months

SECTION 1



RIA 1.4.1
CSA 1.4.2

Nexus theme

- Topic 1.4.1 RIA Assessing social, technical and economic benefits of a cross-sectoral governance of the Water-Ecosystems-Food Nexus.
- Topic 1.4.2 CSA Platform for mapping and capitalisation of best practices from on-going and past experiences related to Farming system, Water management and Food Value chain in the Med. area

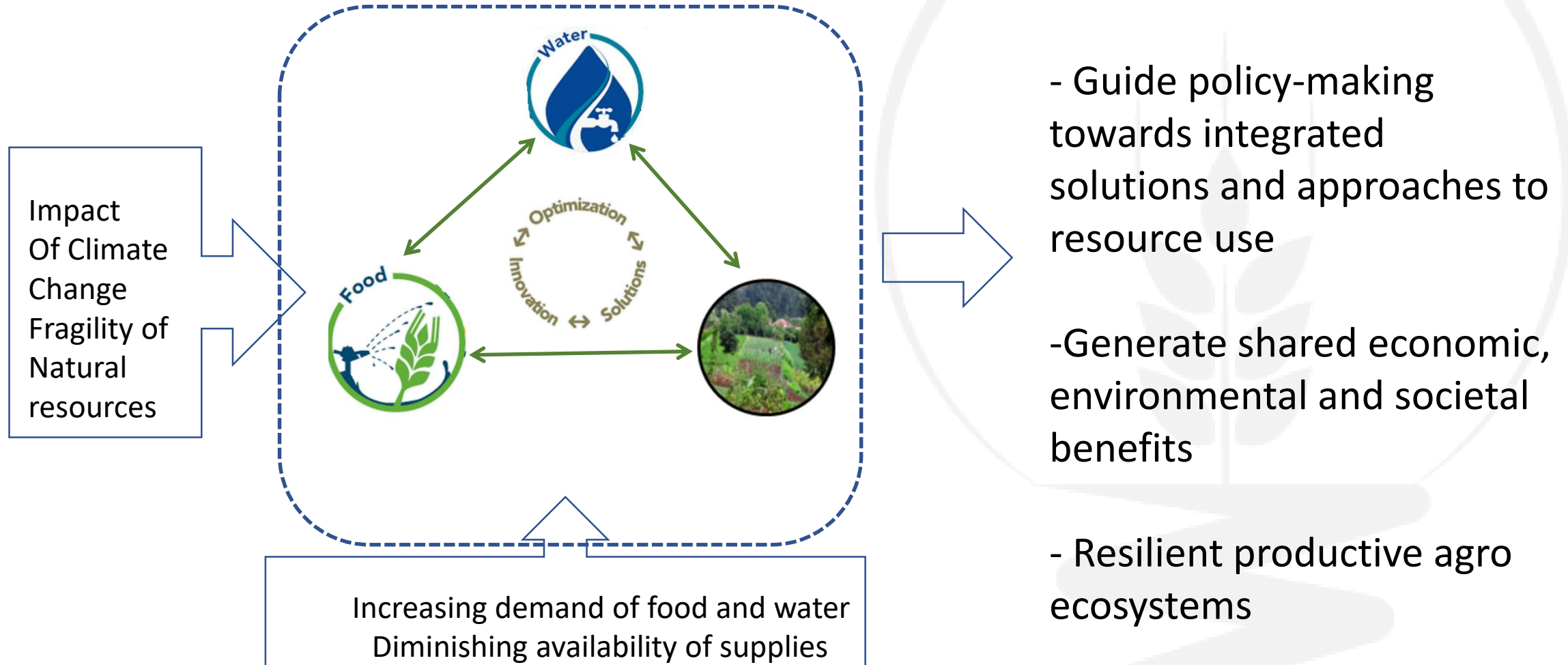


Topic 1.4.1.

RIA Assessing social, technical and economic benefits of a cross-sectoral governance of the Water-Ecosystems-Food Nexus



The Nexus approach



Scope

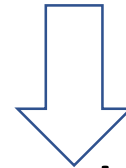
✓ Existing WEF-related initiatives exist in the Med. Region



Assessment

- Identification of the obstacles
- Identification of solutions to overcome the identified obstacles
- Target Nexus-based measures

✓ Development of new approaches and tools



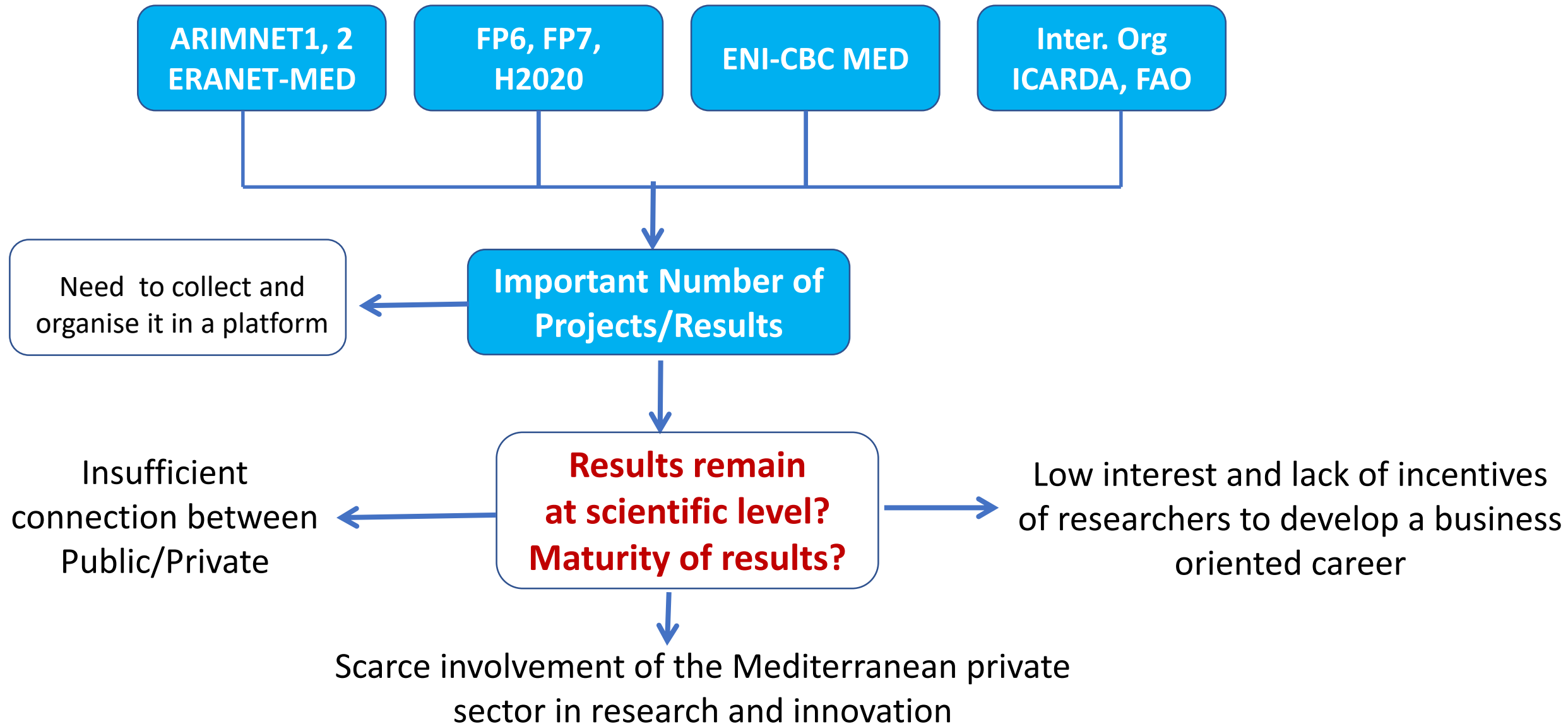
Demonstration case studies on the advantages of cross-institutional and sectoral planning of water resources in the Mediterranean region.

The involvement of the relevant stakeholders

Budget for the call : 3,2 M€
TRL 3-5

Budget per project: 1,6M€
Duration 36-48 months

Topic 1.4.2. CSA Platform for mapping and capitalisation of best practices from on-going and past experiences related to Farming system, Water management and Food Value chain in the Med area



Scope

Interactive Platform

Analyse the the results of past projects

Identification of good practices

Identification of results better suited for commercialization
(Patents, varieties, prototypes)

Impact pathway, bibliometric analysis, indicators, expert groups ,...

Tools, practices, techniques, models , policy briefs, standards,

Facilitate the connection between researchers and private investors

Strategy plan for a long term sustainability of the platform



PRIMA

PARTNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA



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