



Alignment as seen by FACCE-JPI - an update -

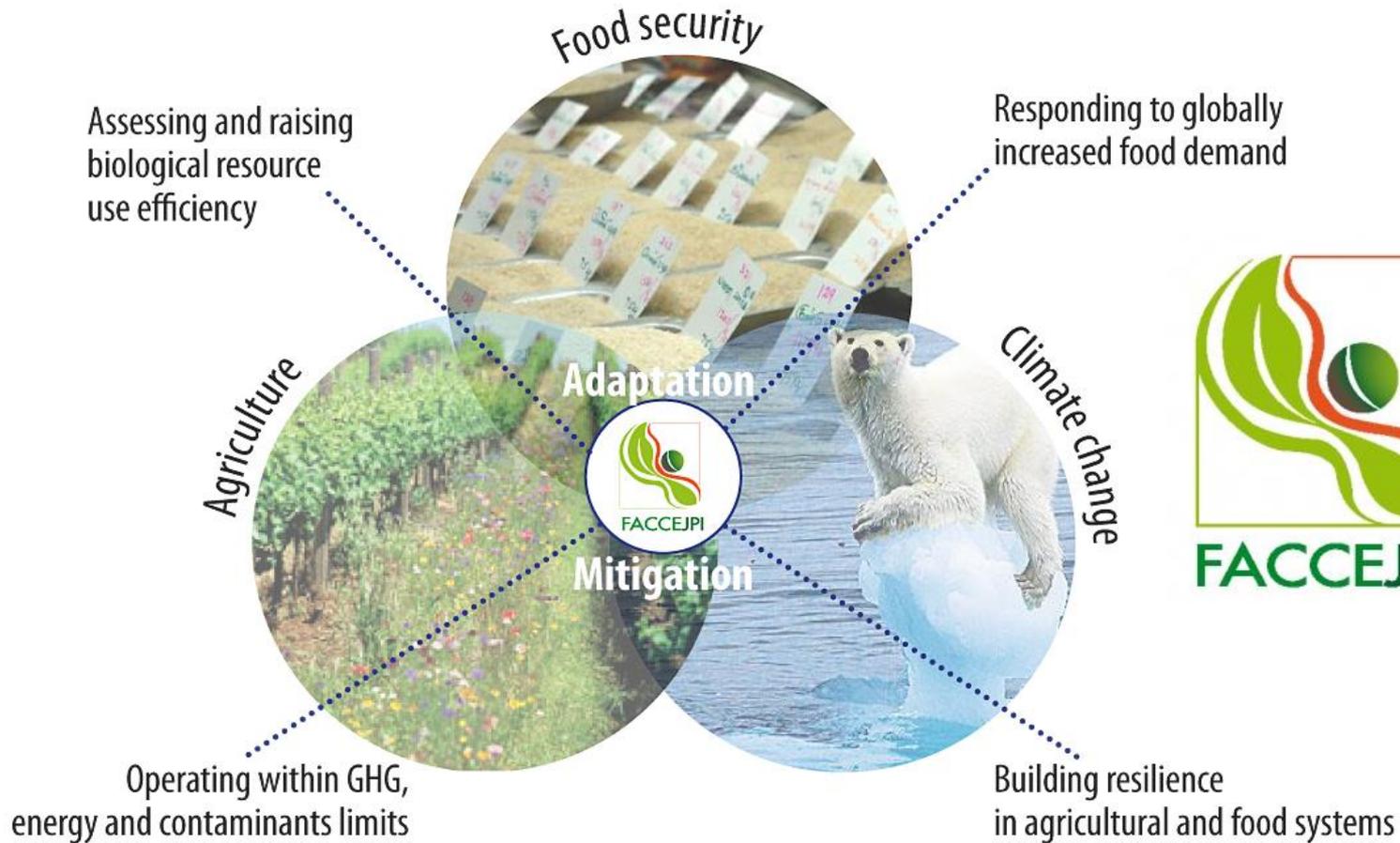
Joint Programming Initiative on Agriculture, Food Security and Climate Change

Dorri te Boekhorst
FACCE-JPI Secretariat

Paris, 19th November 2015



FACCE JPI remit



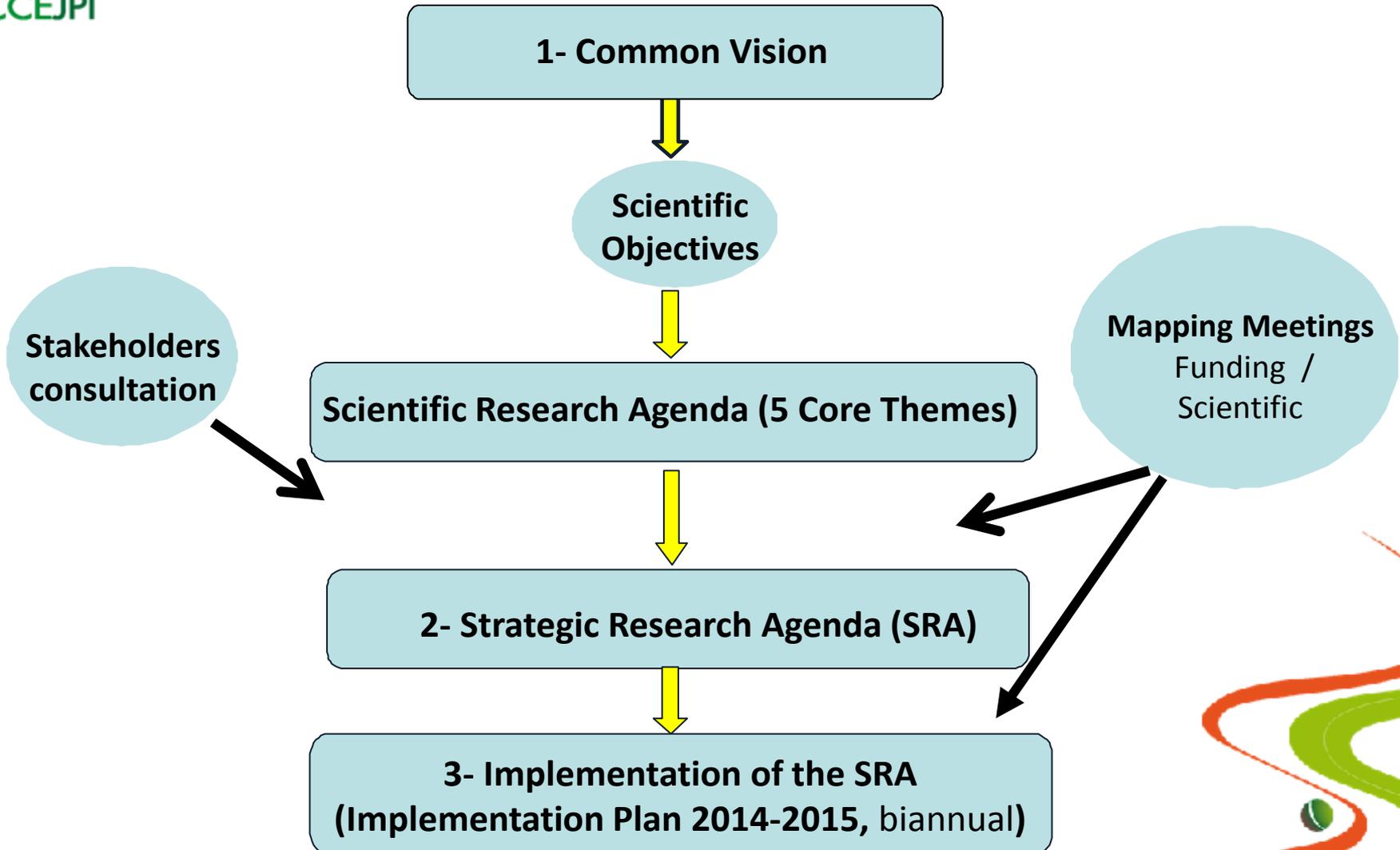
Agriculture,
Food Security
and Climate Change



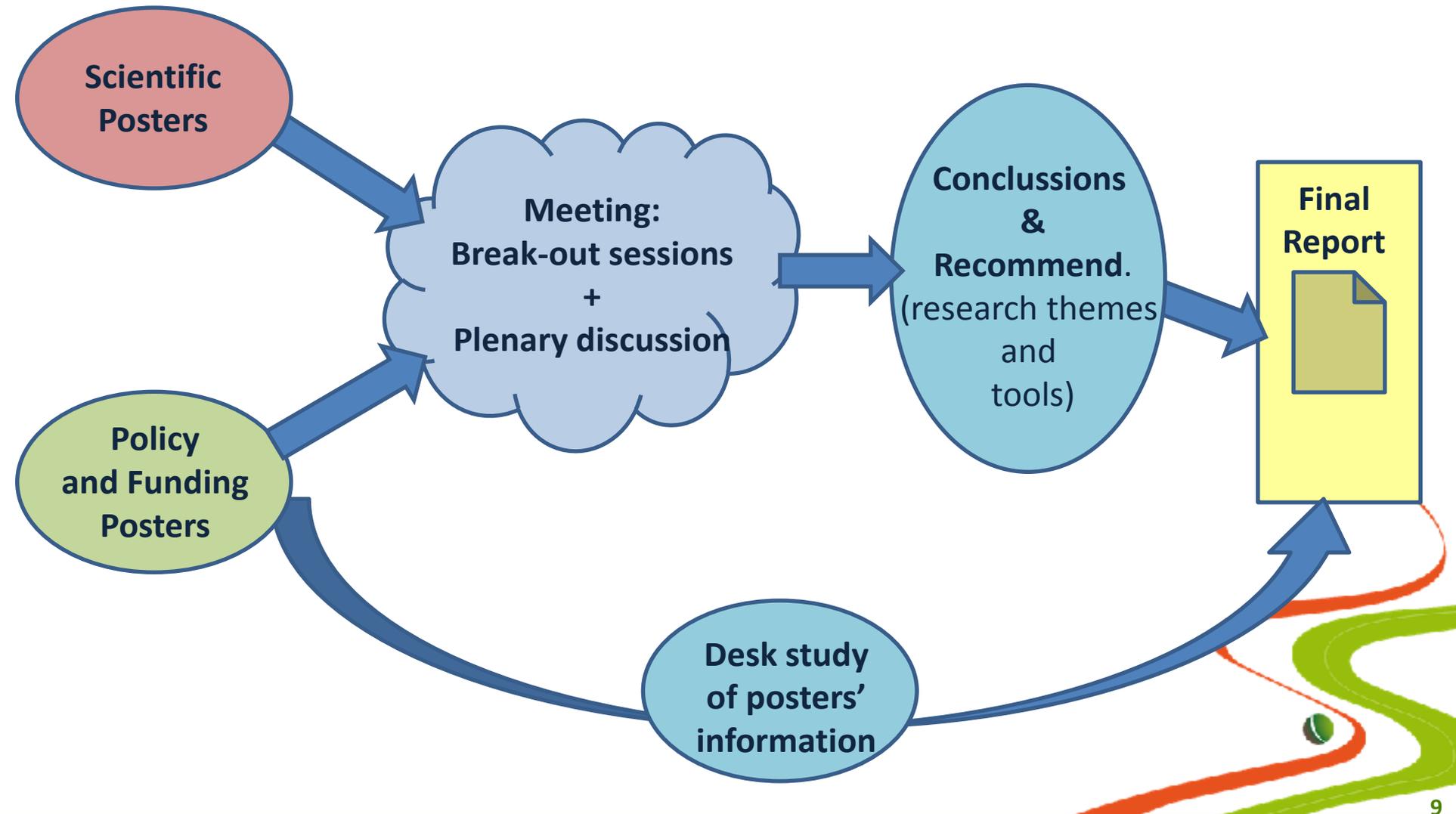
FACCE-JPI actors and their roles

- **National Ministries**, funding agencies, research policy makers (Governing Board) – adoption of joint actions
- **Stakeholders** – StAB provides **end user** input into actions; what outcomes are desired
- **The research community** (incl. Scientific Advisory Board). SAB provides scientific expertise; the scientific community carries out this research

Joint Programming: A Three Stage Process



Mapping meetings



Poster example: Policy & funding

Joint Programming Initiative
Agriculture, Food Security and Climate Change

POLICY & FUNDING INFORMATION: TRADE-OFFS between food supply, biodiversity and ecosystem services

SPAIN



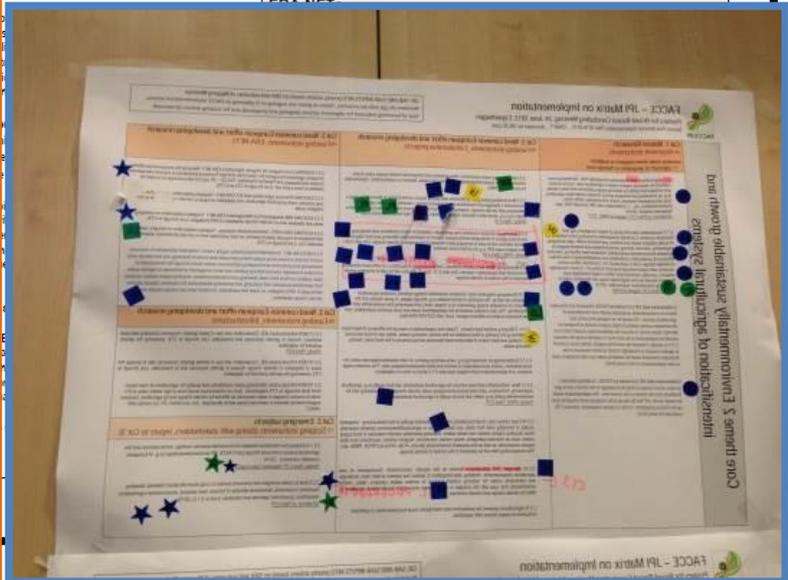
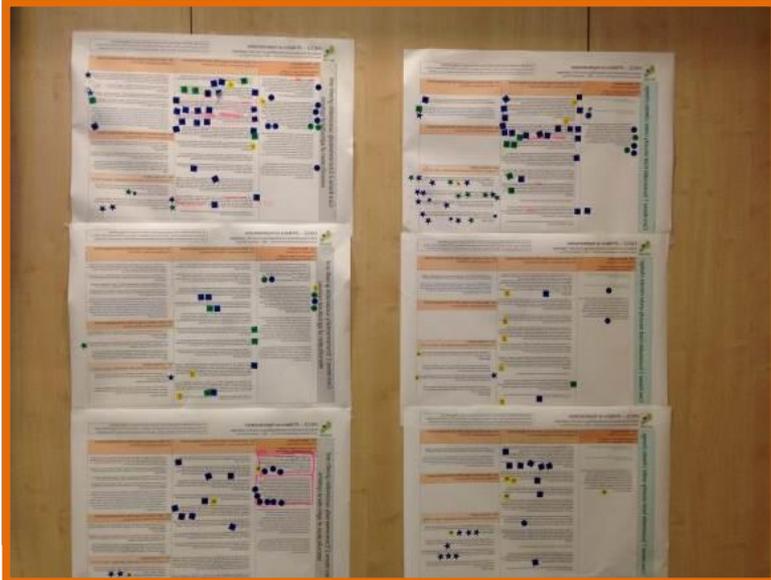
NATIONAL FUNDERS						
Main National Funders on research, innovation and knowledge transfer on the addressed area (Ministries, Agencies, Councils or Private stakeholders).						
BOX 1	Names of main National Funders (for agencies and councils indicate the Ministry they are related to)			Contact details		
	<ul style="list-style-type: none"> Instituto Nacional de Investigación y tecnologías Agroalimentarias (INIA). Ministerio de Economía y Competitividad (MINECO). National Institute for Agrifood Research and Technologies (INIA). Ministry of Economy and Competitiveness. 			<ul style="list-style-type: none"> Organisation: INIA (MINECO) Contact person: Pablo Aller e-mail: pabloaller@inia.es Website: www.inia.es 		
NATIONAL PROGRAMMES AND SUB-PROGRAMMES (P & sP)						
Main National Programmes/Sub-programmes (P & sP) on research, development and innovation dealing with the area here addressed. If there are P & sP on knowledge transfer and diffusion of results please indicate them as well.						
BOX 2	Number P & sP	Names of main P & sP	Estimated budget and funding allocated to trade-offs in these P & sP (last 3 years)	Main organisations involved on research		
				Universities	Public institutions	Industries, SMEs, NGOs, others.
	<ul style="list-style-type: none"> 3 P 6 sP 	National Plan RTD: <ul style="list-style-type: none"> Global Climate Change Programme (CGL) <ul style="list-style-type: none"> Sub-programme BOS (Organisms and systems biology) Sub-programme AGR (Agriculture) Agriculture and Food Programme (AGL) <ul style="list-style-type: none"> Agriculture Sub-programme (AGR) Forestry Sub-programme (FOR) Agrifood resources and technologies Programme (RTA - INIA) <ul style="list-style-type: none"> Conservation of agrifood genetic resources Interactions between fauna and livestock 	<ul style="list-style-type: none"> CGL: 23.946.877 €/3 years AGL: 6.024.590 €/3 years RTA: 29.890.405 €/3 years 	UPM Madrid UPC Cataluña UPV Valencia UCM Madrid UAM Madrid UPN Navarra Univ. Granada Univ. Salamanca Univ. Valencia Univ. Santiago	CSIC INIA IRTA IRIA IMEIDEA INTAEX NEIKER	
INTERNATIONAL COOPERATION						
BOX 3	Projects	Number of projects last 3 years	Average Budget per project or initiative	Name and acronym (main ones)	Countries in the consortium	
	EU level	FP7 projects	32	5 M€	<ul style="list-style-type: none"> BACCARA: Biodiversity and climate change. A risk analysis. BIOBIO: Indicators for biodiversity in organic and low-input farming systems. BIOFRESH: Biodiversity of freshwater ecosystems: Status, trends, pressures, and conservation priorities. KNEU: Developing a Knowledge Network on biodiversity and ecosystem services. SCALES: Securing the conservation of biodiversity across spatial, temporal, and ecological scales. 	• FR, PL, CH, CN, UK, ES, SE, IT, DE, NL • CH, IT, UK, AT, HU, NL, FR, ES, NO, DE, BG • DE, FR, AT, ES, UK, BE, HU, MY, CH, SE, SI, PH • DE, NO, IE, FR, ES, UK, NL, FI, BE, AT, HU, PO • UK, PO, EE, PL, DE, ES, NO, FI, BU, GR, FR, SE
		ERA-NETs	5		<ul style="list-style-type: none"> ERA-ARD II: Agricultural Research for Development Dimension of the European Research Area. Core Organic II: Coordination of European transnational research in organic food and farming. ARIMNET: Coordination of Agricultural Research in the Mediterranean. RURAGRI: Facing sustainability: new relationships between rural areas and agriculture in Europe. SUSFOOD: Sustainable Food. 	• NL, FR, FI, AT, BE, TR, UK, DK, PO, CH, DE, LT, ES • DK, CZ, CH, DK, NL, UK, AT, IE, DE, IT, BE, SE, EE, • FR, LV, NO, SI, LT, FI, LU, ES • FR, TN, DZ, EG, CY, MO, IL, GR, PO, IT, ES • FR, IT, CH, SE, AT, NL, IL, PL, DE, BE, HU, SI, DK, • IE, CY, LV, UK, TR, LT, ES • FR, ES, DE, IT, PL, SI, UK, BE, EE, DK, RO, TR, • SE, NL, NO, FI
Other International Cooperation		<ul style="list-style-type: none"> 1 M€ 499.772€ 499.900€ 	Fontagro Projects: <ul style="list-style-type: none"> Technological innovation strategy to improve productivity and competitiveness of production chains in Central America and the Dominican Republic. Evaluation of changes in water productivity compared to different climate scenarios in different regions of the Southern Cone. Development and evaluation of genetic resources of <i>Lycopersicon</i> spp. Genetic Improvement of Solanaceae against biotic and abiotic stresses. 	<ul style="list-style-type: none"> SICTA network: Central America Countries. Colombia, Argentina, Bolivia, Uruguay, Syria. Colombia, Bolivia, Spain, Peru. 		

Poster example: Scientific

Joint Programming Initiative:
Agriculture, Food Security and Climate Change

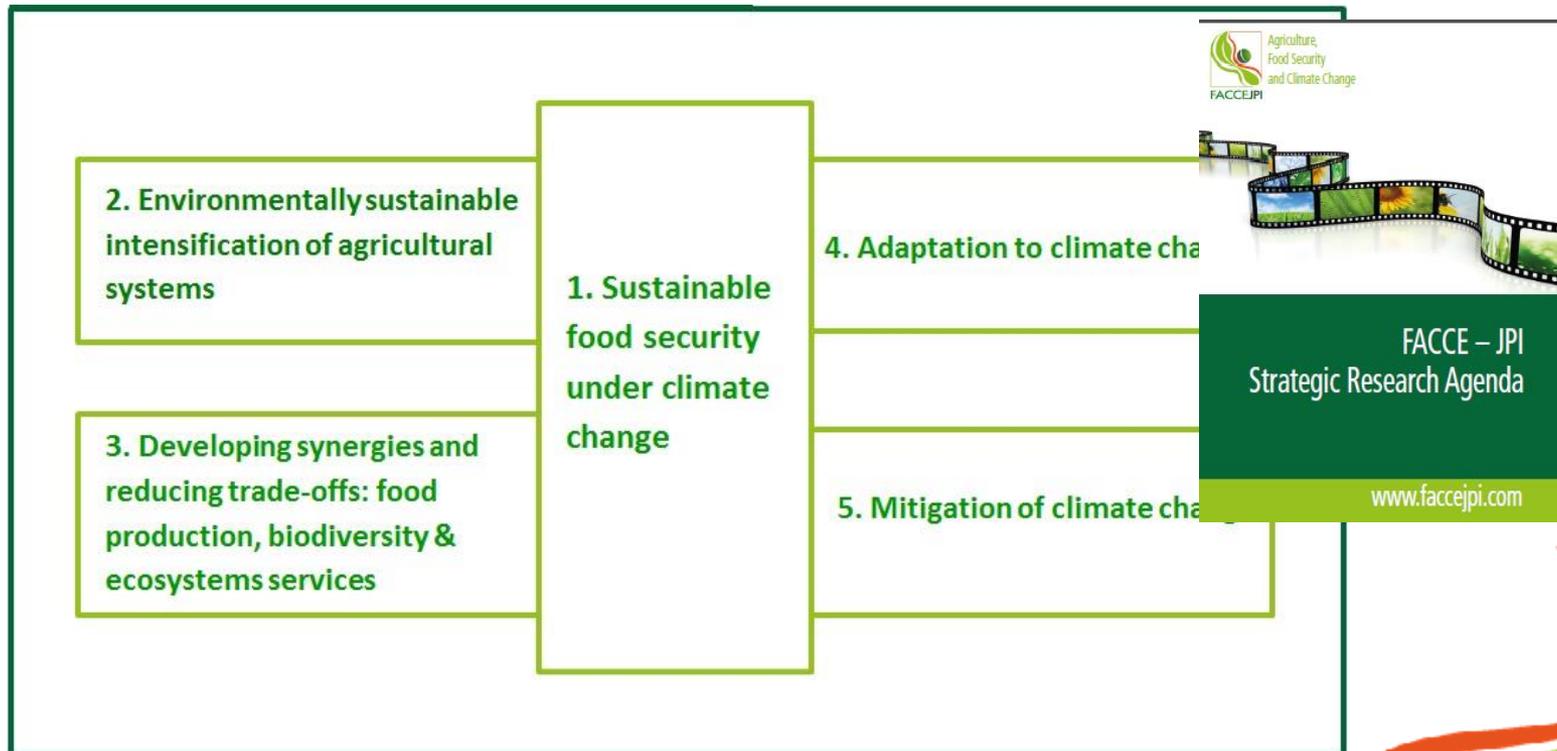
				MAPPING OF CURRENT RESEARCH: TRADE-OFFS		SPAIN	
				between food supply, biodiversity and ecosystem services			
				AREAS	MAIN PROJECTS	Research Effort (Person Month)	
SECTORS	Total Projects (last 3 years)	Total Funding (last 3 years)					
 LIVESTOCK	19	2.8	INTENSIVE ANIMAL PRODUCTION	<ul style="list-style-type: none"> Impact of cattle growth patterns on productivity and replacement of female animals for meat production. Influence of production conditions on the overall quality of Iberian pork: nutritional, technological and ethical aspects. 	+ 72 + 72		
			EXTENSIVE ANIMAL PRODUCTION	<ul style="list-style-type: none"> Effects of extensive livestock use change on Mediterranean biodiversity and ecosystems. 	+ 180		
			OTHERS	<ul style="list-style-type: none"> Assessing carbon footprint and ecosystem services for the design of sustainable strategies in sheep production. Habitat use and trophic levels of fish communities from the Ebro river delta. Towards a sustainable model for fisheries. Effects of different systems of small ruminant herds on the quality of products and the environment. Economic, social and environmental indicators. Grazing behaviour and productive response of cattle and horses on heath grassland areas. Impact on flora and fauna. 	+ 216 + 126 + 360 + 90		
			ARABLE CROPS	<ul style="list-style-type: none"> Effects of landscape management and common agricultural practices on plant biodiversity in the Mediterranean extensive herbaceous agro-ecosystems. Genetic improvement of wheat varieties in order to get agro-industrial varieties adapted to the environmental characteristics of Spain. Assessment and management of alfalfa crops to reduce its environmental impact on agricultural production systems in north-eastern Spain. 	+ 126 + 414 + 144		
 CROPPING SYSTEMS	61	4.8	FRUIT TREE CROPS	<ul style="list-style-type: none"> Carbon capture of olive groves soils in Andalusia and its relation with humification and mineralization processes. 	+ 90		
			INTENSIVE CROPS	<ul style="list-style-type: none"> Development of alternative greenhouse farming: under plastic in winter, under mesh in summer. Sustainable production, cost and quality. Climate control of greenhouses on the Mediterranean area. Increase the quality and production of high value horticultural varieties. 	+ 152 + 90		
			OTHERS (Soil Conservation and Management)	<ul style="list-style-type: none"> Restoration of biodiversity and ecosystem services in agricultural systems. Multi-scale approach. Conservation agriculture in Mediterranean ecosystems: biological activity and carbon and nitrogen capture and storage. Conservation agriculture for irrigated and rain fed crops using integrated production techniques. Conservation agriculture techniques in rain fed and full tree crops in Mediterranean climate: sustainable productivity, erosion control, maintenance of soil biodiversity and soil quality. Introduction of new crops in traditional rain fed rotations for environmental purposes: weed control, incidence of diseases, soil and water conservation and reduction of fertilizers. 	+ 324 + 126 + 342 + --- + 126		
 FORESTRY	18	2.2	SILVICULTURE	<ul style="list-style-type: none"> Ecological characterization of main Spanish tree species: Competition and elaboration of a national summary. Sustainable biomass production in tree crops: assessment of water use efficiency and mixed plantations. Genetic variability and phenotypic plasticity of Mediterranean pine: carbon sequestration capacity and resilience. 	+ 108 + 126 + 90		
			AGROFORESTRY	<ul style="list-style-type: none"> Improvement of the agronomic performance and range of active principles of the Spanish wild populations of <i>Levanderula latifolia</i>, <i>Rosmarinus officinalis</i>, <i>Salvia</i> and <i>Thymus leucandulifolia</i> medicinal. Meadows and coppices of holm oak in Mediterranean Spain: management proposals for the sustainability of these forest systems. Carbon capture storage in reforested agricultural soils: Carbon stabilization by physical protection. Ecophysiological relations in agro-forestry and their role in water and carbon regulations. 	+ 270 + 108 + --- + ---		
			OTHERS	<ul style="list-style-type: none"> Ecophysiological and epigenetic aspects in the responses to water stress of <i>Fagus sylvatica</i>. Forest fragmentation in Spain and Europe: Odds of forest species extinction (animal and plants). 	+ --- + 108		
			SOCIOECONOMIC ASPECTS	<ul style="list-style-type: none"> Improving socio-economic performance and environmental production systems Manchega sheep farms. Price transmission between energy and food markets: the impact of biofuels. Environmental and economic effects of the use of soil and water resources in agriculture. 	+ 324 + 72 + 546		
 HORIZONTAL ASPECTS			POLICY ISSUES (Common Agricultural Policy)	<ul style="list-style-type: none"> Design and analysis of new agri-environmental policy instruments for the adoption and diffusion of organic farming. 	+ 90		
			OTHERS				

Broad Based Concluding Meeting



Strategic Research Agenda

(launched in dec 2012)



Implementation Plan

- **ALIGN**

- Knowledge Hubs (MACSUR)
- Knowledge Network (Sustainable Intensification)
- Thematic Annual Programming Network (Soil)

- **INVEST**

- *ERA-NETs (ERA-GAS)*
- *New Transnational calls*

- **EXPLORE**

- *Workshops*

Implementation Plan 2014-2015

Findings from two years implementing joint actions

- **Many successes: joint calls, alignment of networks (MACSUR), exploratory workshops;**
 - Increased visibility
 - Increased impact (how to measure?)
 - Investments in joint actions (joint calls, ERA-NETs)
- **High ambitions: success but also less successful actions;**
 - Exploratory workshops – those that were held were successful, but..
 - Core themes vs priorities
 - Return on investment
- **Alignment of research policy / -funding remains challenging**
 - Understanding of what alignment is
 - Need for seed money and coordination costs
 - Inter-operability

Framework¹

FUNDING
typology (8-12)

IMPLEMENTATION
typology (13-22)

ASPECTS	A. ORIENTATION	B. PROGRAMMING	C. FUNDING	D. PERFORMANCE
CONTENT				
METHODOLOGY		WG NAT OWNERSHIP		
INSTRUMENTS			TAP SOIL	
TRAINING <i>typology (25)</i>				
INFRA & DATA <i>typology (26-28)</i>				
EVALUATION <i>typology (23,24)</i>				
DISS & UPTAKE <i>typology (29,30)</i>				

typology (1,2)
PLANNING

typology (3-7)
STRATEGY

¹Adapated from Barré et al. (2012)

Examples

I. Thematic Annual Programming network on Agricultural Soil Quality

(alignment typology 8. synchronisation of national calls for research proposals)

“There is need for a network of funders”

- ✓ Much research conducted in many Member States
- ✓ “light” alignment

- Workshop 25th of August
- Difference in perspective on who’s to decide, difference in perspective of what is needed

Examples

II. Knowledge Network Sustainable Intensification

(no alignment typology yet)

- ✓ **Broad research field, research conducted in many Member States**
- ✓ **Network of funders and researchers**

- **Workshop in February 2015. Proposal for KN combines three aspects:**
 - I. **Networking & exchange of information**
 - II. **Brokerage**
 - III. **New interventions**

Examples

III. GB Working Group on National Ownership

(Related to: alignment typology 4. Adoption of a common strategic Implementation / Action Plan)

Alignment is a two-way street: national and JPI Agendas influence each other

- ✓ Why / what actions are important for National governments and why?
- ✓ How to increase ownership of a joint action at the national level?
- ✓ Do we have a shared understanding of alignment?

The WG objectives are to:

- a. *to promote national ownership by the establishment of national networks, share good examples like national consultation networks, alignment of national research policies with each other or with the H2020 Societal Challenges, etc.*
- b. *set a different route for the Implementation Plan 2016-2017 and thus to create more national buy-in;*

Implementation Plan 2014-2015

- A learning process... The next IP stronger national commitment
- Progress? Yes! ...but there may have been more;
- Co-funded actions from EC have advanced well (INVEST);
- Mixed results for smaller actions like exploratory workshops (EXPLORE);
- Alignment actions (ALIGN) → coordination costs

Implementation Plan 2014-2015

BARRIERS

Funds only for research (many funders cannot commit funds to coordination costs);

National ownership (political commitment, *juste retour*);

Capacity limitations (either funds, personnel or time);

Technical barriers

Implementation Plan 2016-2017

- Every action: GB commitment - leading party with Secretariat support;
- Only those activities that have full GB support (e.g. ownership) albeit within variable geometry;
- How to solve who will/can pay for alignment? Per project allocate % of funds for coordination/networking costs, ...
- Other EU funding instruments available? (COST, ...)

Implementation Plan 2016-2017 (II)

- SAB and StAB have worked on new list of priorities;
- GB prioritisation and funding possibilities;
 - ***National consultation processes to reach national prioritisation on IP longlist***
 - ***Lessons learned: what to ask and how!***
- Analysis → prioritised list with instruments;
 - shift from invest to align
- Elaborated topics (SAB);
- *Discuss and adopt the IP by the GB*
- *GB member to take lead on an action*



Thanks for you attention!

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