

# **FACCE - JPI**

## **Joining Forces in Europe in Agriculture, Food Security and Climate Change**

Miur, 24 Febbraio 2012



**FACCEJPI**

[www.faccejpi.com](http://www.faccejpi.com)



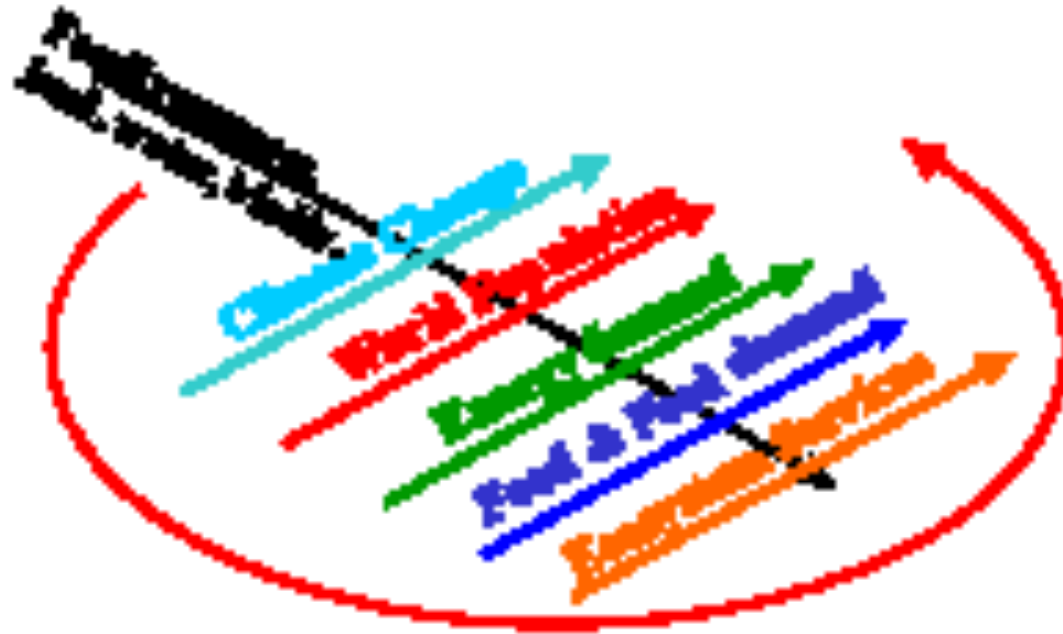
**Agriculture Food Security and Climate Change**

## Outline

- Context
- Background to FACCE-JPI
- FACCE-JPI remit
- FACCE-JPI state of play
- Pilot Action
- Next steps



# A perfect storm



A "perfect storm" of food shortages, scarce water and insufficient energy resources threaten to unleash public unrest, cross-border conflicts and mass migration as people flee from the worst-affected regions.

Prof. John Beddington, UK Chief Scientific Adviser

# Two Goals of Our Time

1. Achieving Food Security
  - 1 billion hungry
  - Food production to increase 70% by 2050
  - Adaptation to Climate Change and dwindling natural resources critical
2. Avoiding Dangerous Climate Change
  - "2 degree goal" requires major emission cuts
  - Agriculture and Land use = 30% of emissions...
  - ...and needs to be part of the solution

**New and strong emphasis on agricultural research is vital for sustainable global development, need for a European approach**





EUROPEAN  
COMMISSION

Community research

# European Research Area

*3 concepts*

- the creation of an **"internal market" in research** (free movement of knowledge, researchers and technology)

- the **restructuring** of the **European research fabric** (improved coordination of national research activities and policies) – **"Ex-Post"** ☞ ☞ ☞ **ERA-NET and Art.169**

- the development of a **European research policy** (taking into account other EU and national policies)  
**"Ex-Ante plug-ins"** ☞ ☞ ☞ **Joint Programming**



EUROPEAN  
COMMISSION

Community research

# 1. Joint Programming in research

## JOINT PROGRAMMING (Definition)

- **Member States** engaging
  - voluntarily and **on a variable geometry basis**
  - in the **definition, development and implementation** of **common strategic research agendas**
  - based on a **common vision** on how to address **major societal challenges**.
- It may involve **collaboration** between **existing national programmes** or the **setting up of entirely new ones**.
- It entails **putting resources together**,
  - **selecting or developing the most appropriate instrument(s)**, and
  - **collectively monitoring and reviewing progress**.





# Background to FACCE-JPI

- SCAR Foresight 3 key challenges (2009):  
Food Security, Climate Change, Diet & Health
- EURAGRI brought FR and UK plans together to propose  
Agriculture, Food Security and Climate Change JPI (Sept 09)
- NL proposed Healthy Diet for a Healthy Life JPI
- These 2 (plus Cultural Heritage) adopted Competitiveness  
Council (December 2009)
- FACCE-JPI GB created (January 2010)  
€5000 entry fee









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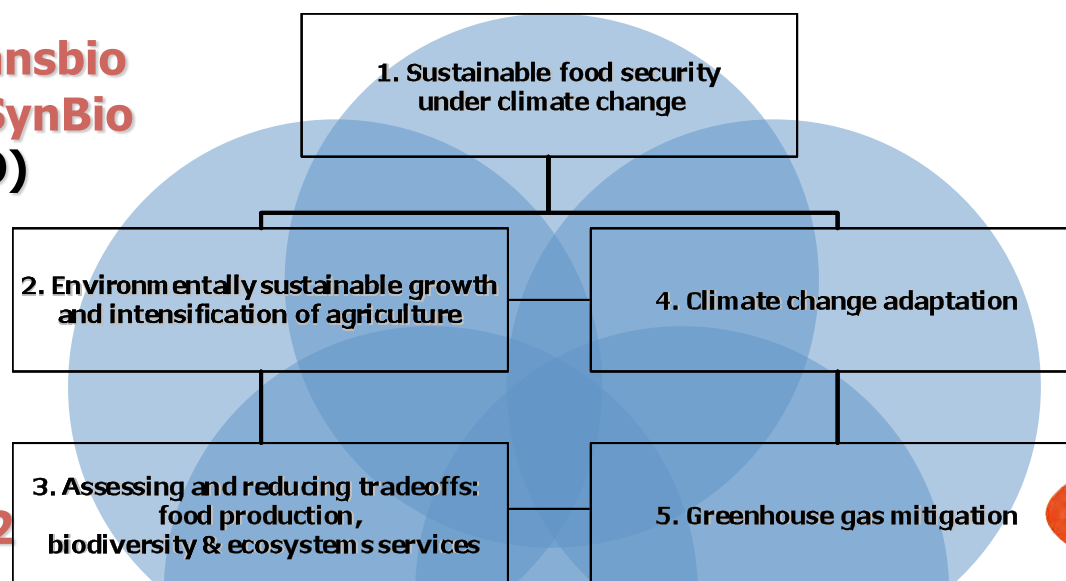
**ICT-AGRI**  
**Core Organic II,**  
**ERACAPS**

**ERA-IB, EUROTransbio**  
**ERASysBio, ERA SynBio**  
**(EUPHRESCO)**  
**(ANIHWA)**

**BIODIVERSA2**  
**ARIMNET,**  
**CORE ORGANIC**  
**(EUPHRESCO, ANIHWA)**  
**(RURAGRI)**  
**(SUSFOOD)**

**ERA ARD2**  
**ARIMNET**  
**SAFEFOOD**  
**SUSFOOD**  
**RURAGRI**  
**(CIRCLE 2)**

**Same domain as FACCE JPI**  
*Other sectors than agriculture & food*  
*Other regions than Europe*  
*Includes health and food habits*



**CIRCLE2**  
**EUPHRESCO**  
**ANIHWA**  
**(ERA-ARD2)**

**(SUSFOOD)**  
**(ERA CAPS)**  
**(ERA-IB)**























**FACCEJPI**

**Agriculture Food Security and Climate Change**



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# FACCE-JPI Participants

	Austria		Italy	
	Belgium		The Netherlands	
	Czech Republic		Norway	
	Denmark		Poland	
	Estonia		Romania	European Commission SCAR (observers)
	Finland		Spain	
	France		Sweden	
	Germany		Switzerland	
	Ireland		Turkey	
	Israel		UK	
				Cyprus

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Agriculture Food Security and Climate Change



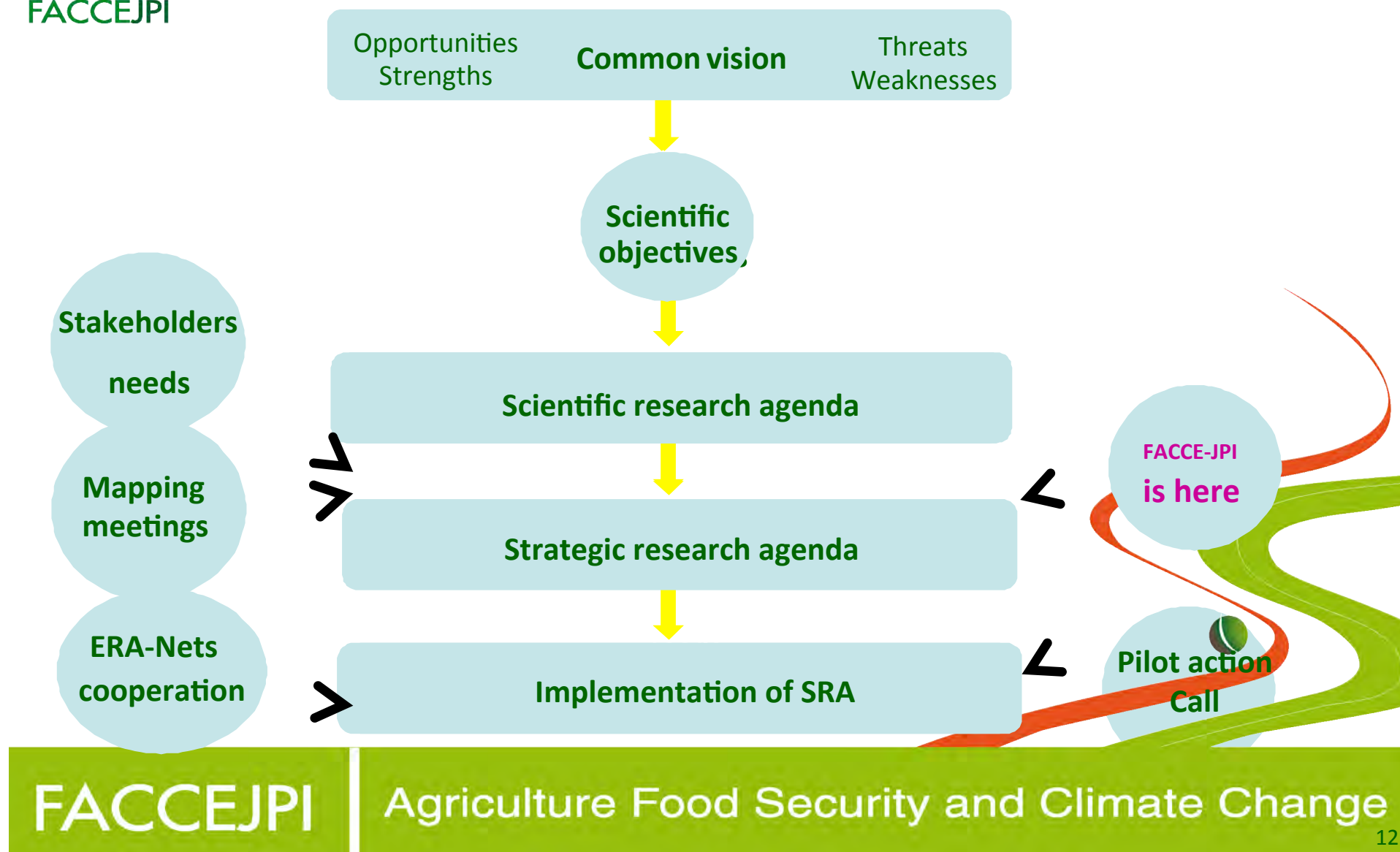
## State of the play

- Since Jan 27<sup>th</sup> 2010 (1<sup>st</sup> GB) and June 10<sup>th</sup> 2010 (1<sup>st</sup> SAB)
  - ⇒ Many achievements, e.g.:
  - ⇒ Scientific Research Agenda (ScRA)
    - ⇒ Pilot action call
    - ⇒ 1st&2nd meeting with the funders/ mapping
    - ⇒ ERA-NETs Workshop (Stakeholders)

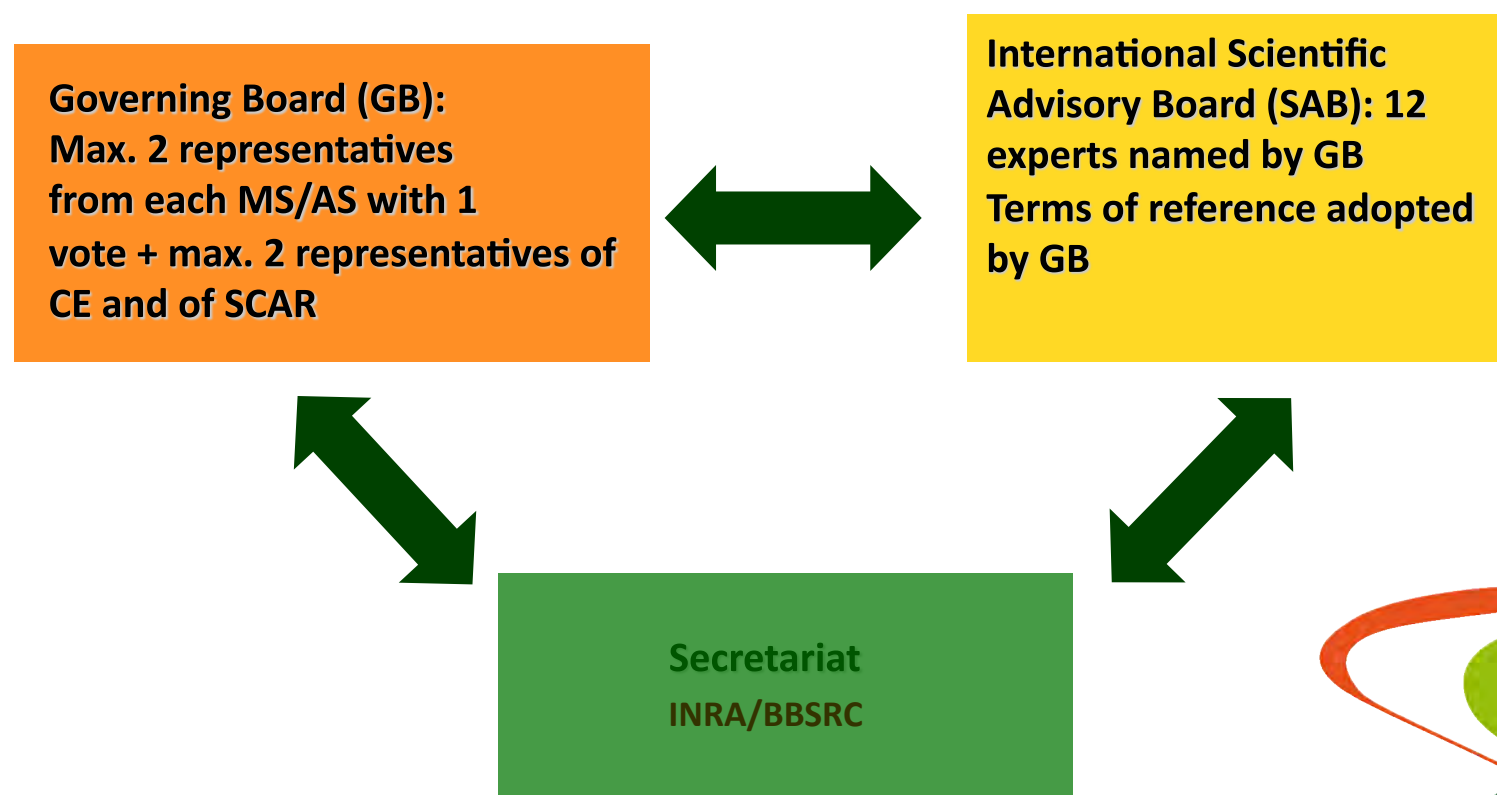
With the support of the CSA, tool integrated within the FACCE-JPI to ensure the JPI implementation



# The Joint Programming Process



## FACCE - JPI Governance



**Possibility to add working groups, implementation groups**

# Scientific Advisory Board

- Elias Fereres
- Steve Long
- Frits Mohren
- Bernd Müller-Röber
- Pirjo Peltonen-Sainio
- John R. Porter
- Thomas Rosswall
- Johan Rockström
- Jean-François Soussana
- Henning Steinfeld
- Joachim von Braun
- Rajul Pandya-Lorch

The members of the SAB (elected by Governing Board) serve in their capacity as independent experts

- Elaborate a scientific research agenda
- Prioritise actions
- Advise on scientific governance
- Advise / participate in peer review and evaluation



# Scientific Research Agenda

## 5 core research themes

1. Integrated food security under climate change, based on an integrated food systems perspective: modelling, benchmarking and policy research perspective.
2. Sustainable intensification of agricultural systems under current and future climate and resource availability.
3. Optimizing trade-offs between food production and the preservation and utilization of biodiversity, ecosystem goods and services.
4. Adaptation to climate change throughout the whole food chain, including market repercussions.
5. Mitigation of  $N_2O$  and  $CH_4$  emissions by the agriculture and forestry sector, carbon sequestration and reducing GHG emissions associated with indirect land use change.

**COMMENTS WELCOME ON THE SCIENTIFIC RESEARCH AGENDA**



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# FACCE CSA organisation

## April 2011- March 2014



**WP1** Refining and updating the Strategic Research Agenda

Leader : UK Co-leader : FR

**WP2** Mapping and foresight for strategic collaboration

Leader : NL Co-leader : ES

**WP3** Design and delivery of implementation modalities

Leader : TK Co-leaders : AT, DE

**WP4** Communication and outreach

Leader : FR Co-leader : UK

**WP5** Coordination with international initiatives

Leader : IE Co-leader : RO

**WP6** FACCE consolidation and perpetuation

Leader : UK Co-leader : FR

**WP7** Project and consortium management

Leader : FR Co-leader : UK



## **First mapping meeting on mitigation** of agricultural greenhouse gas - induced climate change (theme 5)

- Gathering national funders, policy makers and scientists + members of the SAB
- Recommendation to the GB for implementation of theme 5
  - Research themes
  - Tools identified
- Second meeting on adaptation (theme 4) 22-23 February 2012





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## Pilot Action

- One-off, initial action at early stage of FACCE-JPI
- To bring together nationally-funded modellers in the areas of crops, livestock and trade, to look at how climate variability and change impact on European agriculture and food security
- 96 letters of intention received, 74 groups eligible
- Selected national applicants met at a networking workshop to develop a Knowledge Hub (network) – October 18, 2011
- Submission of coordinated Knowledge Hub proposal December 2011
- Evaluation January – February, 2012
- Launch of Knowledge Hub – June 2012



## Pilot action: instrument

### FACCE-JPI Knowledge Hub

- An instrument building on the concept of “Networks of excellence”
- Main idea of “FACCE knowledge hubs”;
  - Bring together research groups that already have funding in the thematic area(s) chosen
  - It can be worded as building “virtual centers” between research groups.
  - The support given can be administration/project management, travel expenses, mobility, money for common research, use of common infrastructure and thematic workshops.



## Pilot action: numbers

### FACCE-JPI Knowledge Hub

- 67 partner (12 italian research groups in a single partnership)
- 17 Countries involved;
- 3 themes (livestock-crop-trade);
- 20 work packages;
- 2.360 person/months;
- Total costs:15 milioni;
- Co-funding: 58% (8.8 mil di euro finanziati)



## Next steps

- Knowledge Hub starting in 2012
- Working with existing ERA-NETs to implement the Research Agenda (e.g. ERA-CAPS: Coordination Action in Plant Sciences, BiodivERsA)
- Stakeholder consultation → Strategic Research Agenda
- Discussion on an international call on climate change mitigation (2013)
- **Possibility of an ERA-NET+ on “Climate smart food systems in Europe”(2014)**



# Thank you for your attention!

Visit: [www.faccejpi.com](http://www.faccejpi.com) & [www.politicheagricole.it](http://www.politicheagricole.it)

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