



The role of organic farming in global food and nutrition security

How does FACCE-JPI address the nexus food security and climate change and how does organic farming fit in?



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1. What does Joint Programming do?

- Address major societal challenges that cannot be solved solely on the national level, and voluntary participation of Member States in those joint initiatives where it seems useful for them
- Alleviate compartmentalisation of public research funding in the EU
- Align national programmes to minimise duplication, bring critical mass, make efficient use of limited financial resources
- Identify national priorities and provide coherence between Member States
- New ways of working together



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2. Introduction to FACCE-JPI

- Started in 2010
- 21 Countries
- Governance (GB-SAB-StAB)
- Common vision
“How cooperation and coordination of research at EU level can address the combined challenges of food security against the continuous threat represented by various scenarios of climate change, global population growth and food / non-food demand”



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- **Strategic Research Agenda (SRA)**
Establishing medium to long-term research needs and objectives in the area of food security through adaptation to and mitigation of climate change in agriculture
- **SRA implementation**
3 types of actions: **Invest, Align, Explore.**
First Implementation Plan 2014-2015.
Second Implementation Plan 2016-2017
- **Update to the FACCE-JPI SRA (September 2014-November 2015)**



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Core themes in the SRA

- 1• **Sustainable food security under climate change**, based on an integrated food systems perspective: modelling, benchmarking and policy research perspective
- 2• Environmentally **sustainable growth and intensification of agricultural systems** under current and future climate and resource availability
- 3• Assessing and reducing **trade-offs between food production, biodiversity and ecosystem services**
- 4• **Adaptation to climate change** throughout the whole food chain, including market repercussions
- 5• **Greenhouse gas mitigation**: nitrous oxide and methane mitigation in the agriculture and forestry sector, carbon sequestration, fossil fuel substitution and mitigating GHG emissions induced by indirect land use change



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3. How does FACCE –JPI address the nexus food security and climate change?

- Agriculture is a sector vulnerable to climate change
 - Increased strain on global food systems
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- Update to the FACCE-JPI Strategic Research Agenda- based on input from SAB and StAB
 - More focus on: data models and technologies, bioeconomy and impact driven research



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4. How does organic farming fit in with FACCE-JPI?

I believe that FACCE and the organic farming are having many **common objectives** and that we have a common interest in being connected.

Common focus areas are:

- Optimising the use of ecosystem services to produce while saving fossil resources, reducing mineral fertilizers, and pesticide use and water and minimising threats to habitats and bioiversity. **Sound management holds the key to long term productivity.**
- Fostering a sustainable and resilient farming system
- How to meet the demand of consumers and deliver nutritious quality product? The organic sector is communicating very well with consumers and retailers



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5. Future

Food and nutrition security and climate change is high on the agenda of policy makers both in Europe and outside Europe

- Agriculture accounts for about 10 % of the Union's greenhouse gas (GHG) emissions and more than half of the non- CO₂ gases.
- The agriculture sector as a whole (incl. the organic sector) will also have to contribute to the reduction of GHG emissions
- Productivity gains are slowing down
- Consumption patterns are changing



Research is needed



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6. International collaboration is needed

On the global scale FACCE-JPI recognices the necessity for a global approach to Agriculture, Food Security and Climate Change.

FACCE has actively developed partnerships with international initiatives beyond Europe. Eg.:

- Global Research Alliance on Agricultural Greenhouse Gases (GRA)
- FAO
- CGIAR progammes
- CSA initiative (Climate Smart Agricuture)
- CCAPS
- IPCC- Intergovernmental Panel on Climate Change
- Bilateral contacts with NZ. US,.....



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COP 21 and Europe

- We hope that the the profile of agriculture and food systems will be raised within the UNFCCC negotiations
- A long term strategy for European agricultural research and innovation by 2020 and beyond?



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Thank you for your attention

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