

CLIMATE-SMART
Agriculture
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L.1.4: Europe

**FACCE-JPI: an European partnering initiative
to tackle food security and climate change**

Niels Gøtke,

**Head of Division, Danish Agency for Science, Technology
and Innovation**

Chair of FACCE JPI

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1. What is Joint Programming and why FACCE-JPI?

- FACCE – JPI among the first JPis to be launched by the European Council (October 2010)
- JPis are intergovernmental collaborations meant to tackle grand societal challenges. JPis contribute to the realisation of a European Research Area (ERA)
- FACCE-JPI brings together European and national level public players in Public-Public partnerships (P2Ps)
- Other partnering initiatives in Europe (JTIs, KICs, EIPs, ERA-NETs, EJP´s, EPA´s, Art.185.....)

2. What is FACCE-JPI about?

- **Achieving Food Security**
 - 1 billion hungry (starting to decrease)
 - Food production to increase 50-70% by 2050
 - Adaptation to Climate Change and dwindling natural resources critical
- **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

Five core-themes

- 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



21 Participating countries



Austria



Belgium



Czech Republic



Denmark



Estonia



Finland



France



Germany



Ireland



Israel



Italy



The Netherlands



Norway



Poland



Romania



Spain



Sweden



Switzerland



Turkey



UK



Cyprus



European Commission
SCAR (observers)

3. International Outreach / working together with other international initiatives

The focus for FACCE is on Europe, but Europe is part of a global system of food production and consumption. FACCE-JPI will consider its role in a global context. FACCE-JPI has contacts and links to many international initiatives, countries outside Europe and international programmes.

Among these the following can be mentioned:

- the [Global Research Alliance on Agricultural Greenhouse Gases](#) (GRA)
- the Climate Change, Agriculture and Food Security Programme (CCAFS) of the CGIAR-
- the Agricultural Model Intercomparison and Improvement Project (AgMIP)
- the Belmont Forum
- NZ

And in the future:

- CSA
- other countries than NZ
- the Mediterranean Basin (PRIMA)
- Africa (IntensAfrica)

4. Future priorities

- **Need for and increased science / policy dialogue.** Agriculture among the sectors most severely hit by the consequences of climate change. But agriculture also plays a crucial role in reducing GHG emissions
- **Policy relevant** seen from both a national / regional and EU point of view (Environment, Agriculture, Health / Nutrition, Climate, Energy, Research, Growth ...)
- **Bioeconomy** (increased production of biomass without harming soils, biodiversity, water and ecosystems)
- **Innovation** through sustainable intensification (ICT, genomic selection, eco-and biotechnologies,.....)
- **Increased international dialogue.**

Thank you

Niels Gøtke

Head of Division, DASTI

E-mail: nigoe@fi.dk