FACCE MACSUR workshop for policy makers
Brussels, 24/05/2016

Contributions from FACCE-JPI
Actions supporting adaptation to and mitigation of climate change in agriculture

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Chair of the FACCE-JPI
FACCE JPI’s thematic scope

Food security
- Assessing and raising biological resource use efficiency
- Responding to globally increased food demand

Adaptation
- Operating within GHG, energy and contaminants limits
- Building resilience in agricultural and food systems

Mitigation

Agriculture

Climate change
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<tr>
<th>CT1. Food security under CC</th>
<th>CT2. Sustainable intensification of agriculture</th>
<th>CT3. Biodiversity and ecosystem services</th>
<th>CT4. CC Adaptation</th>
<th>CT5. GHG Mitigation</th>
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<tr>
<td>Knowledge Hub on modelling the impacts climate change on food security (MACSUR)-partnership with AgMip (€15M)</td>
<td>Knowledge Network on sustainable intensification</td>
<td>Joint call with the BiodivERsA ERA-NET (€10M, 10 projects)</td>
<td>FACCE ERA-NET + on Climate Smart Agriculture (€19M, 11 projects)</td>
<td>Multipartner call on agricultural GHG mitigation with 8 GRA countries (USA, Canada, NZ)-(€5.5M, 11 projects)</td>
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<td>International call on food security and land use change with the Belmont Forum (Brazil, India, Japan, South Africa, USA) (€5.3M; 7 projects)</td>
<td>FACCE ERA-NET Cofund on Sustainable agriculture for food and non-food systems (SURPLUS) with New Zealand (€15M, 14 projects)</td>
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<td>ERANET Cofund with the Water JPI on adapting agricultural land and water management (WATERWORKS 2015) with Canada, Brazil, USA, China, VietNam, India, Taiwan, Tunisia, Egypt, South Africa (€26M)</td>
<td>FACCE ERA-NET Cofund on monitoring and mitigation of agricultural GHG (ERA-GAS) with New Zealand- (€15M)</td>
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8 ongoing joint actions +2 under development

(Green= with EC cofunding; pink= member-state funding)

€111M
Multipartner Call on Agricultural Greenhouse Gas Mitigation

- Brings together 11 countries of FACCE-JPI as well as Canada, New Zealand and the United States in January 2013.

- The indicative budget totals over 5.5M€

- 11 projects funded, the majority address **specific mitigation measures** (biochar, grass-fungal endophyte symbiosis, nutrition-related strategies, alternative irrigation of paddy rice, livestock – crop interactions, rumen microbiome).
Two projects aim to assess the effectiveness of mitigation measures and one focuses on increasing the adoption of such options.

One project aims to set up a whole farm GHG estimation and environmental diagnostics platform and one looks at C and N models to assess management options for mitigation.
Projects were to address one or more of the four areas highlighted as key to advancing research in this area:

i) genetics and breeding of animals and plants to increase resilience to climate change,
ii) pests and diseases linked to climate and posing significant risks,
iii) adaptive management of water and soil resources and
iv) options for adapting agricultural systems.

11 projects selected, two concern organic soils, two concern livestock (one on breeding, one on housing), one concerns pests and the rest concern different plants and crops.
Actions that are beginning
ERA-GAS

- ERA-NET proposed by FACCE on Monitoring and Mitigation of Agricultural and Forestry Greenhouse Gases (GHG)
- Coordinator: Ireland
- Complementary to Sustainable Animal Production ERA-NET, with some areas of common interest
- Call opened in January, 2016; pre-proposal phase closed on May 3
- Links to be established to projects funded by FACCE Multipartner call on Agricultural GHG Research
Research themes

• Theme 1: Improving National Inventories and Monitoring, Reporting and Verification of GHG Emissions. There remains considerable uncertainty surrounding emissions sources and sinks within agriculture, forestry and other land-use (AFOLU).
• Theme 2: Refining and facilitating the implementation of GHG Mitigation Technologies.
• Theme 3: State of the Art Production Systems that are Profitable and Improve Food and Forest Biomass Production While Reducing GHG Emissions.
• Theme 4: Assessment of Policy and Economic Measures to support emissions reductions across the farm to fork and forest to consumer chain.
WaterWorks 2015

• Joint call between Water JPI and FACCE-JPI
• Coordinator: ANR (France)
• ERA-NET cofund on Water and Agriculture
• A total of around € 25.5 million has been provisionally allocated for this call by 25 FPOs from 22 countries and the EC.
• The call opened on 16.2.2016 with a closing date for pre-proposals on 19.4.2016.
Scope

Three subthemes:

• Water use efficiency increase
• Soil and water pollution reduction
• Develop the economic and sociological dimension in water efficiency in agricultural and forestry areas.
Thank you for your attention!

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