



GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

GRA Joint Programming



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Presentation to GRA Council
Tsukuba, 29 August, 2017

- GRA Council adopted its first Strategic Plan, which included in its priority actions:
 - ❖ to undertake GRA **joint programming** on an annual basis, beginning no later than August 2017, to support collaborative research, including GRA Flagships.
- GRA Council formed a working group to advance the development of joint programming to identify suite of different mechanisms that could be utilised by GRA to align and mobilise resources.
- Intention is to have more deliberate and well planned coordination within the GRA and between the GRA and its partners.
- Specific outputs/activities identified by Flagship Task Forces and GRA Research Groups that require resourcing will be used as the basis for calls, Fellowships, and other mechanisms to be developed through GRA joint programming.

Options for GRA joint programming

- Working group prepared a working paper to outline a series of possible GRA 'joint programming' mechanisms that could be adopted by the GRA members for resourcing and coordinating collaborative research and capability building.
- Mechanisms identified include:
 - **GRA Fellowship Fund (priority topics, research fellows)**
 - **Bilateral funding arrangements (topics aligned with GRA priorities)**
 - **GRA Thematic Annual Programming (alignment of existing programmes, sharing data)**
 - **Multi-partner research call (common topics, coordinated timing, intra-national funding)**
 - **Fund for International consortia (common topic, coordinated timing, inter-national funding)**
- GRA Council Members were consulted on the above mechanisms and feedback sought on their interest in being involved.

Council feedback on joint programming

- **GRA Fellowship Fund (priority topics, research fellows)**
 - ✓ Limited scope for funding but possibility of hosting fellows in national institutions across GRA network. Specific interest in soil carbon, inventories and livestock methane.
 - ✓ Maybe possibility of mobility funding to support TAP approach (see below).
- **Bilateral funding arrangements (topics aligned with GRA priorities)**
 - ✓ Number of members noted the existence of bilateral cooperation that was relevant to the GRA.
- **GRA Thematic Annual Programming (alignment of existing programmes, sharing data)**
 - ✓ Soil carbon - emerged as topic of most interest, could be supported by regional mechanism, e.g. Fontagro, and fellowships.
 - ✓ GHG inventory – interest in sharing experience on (moving to higher tiers, developing improved emissions factors for regions with limited or no measurement data, guidance on incorporation of mitigation practices/technologies).
 - ✓ Rice - already plans for work in Asia and Americas.

Council feedback on joint programming

- **Multi-partner research call (common topics, coordinated timing, intra-national funding)**
 - √ GHG Nexus proposal (to be presented next).

- **Fund for International consortia (common topic, coordinated timing, inter-national funding)**
 - √ Global Partnerships for Livestock Emissions Research.
 - √ Soil carbon – how to develop international research consortia - building on CIRCASA, what role European Joint Programming on Soil, other regions?



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GRA Joint Programming - GHG Nexus

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- GRA invited to present opportunities for collaboration to FACCE-JPI Governing Board on 2 June, 2017.
- Basic analysis of GRA Flagships and relevant EU research activities showed considerable opportunity for alignment.
- Two initiatives emerged as excellent candidates for linking with GRA Flagships:
 - ERA-GAS
 - SusAn

ERA-GAS is the ERA-NET Cofund for monitoring & mitigation of greenhouse gases from agri- and silvi-culture

- The FACCE ERA-GAS Consortium consists of 19 partner organisations, from 13 countries.
- The consortium is coordinated by Teagasc, Ireland.

SusAn is the ERA-NET Cofund on Sustainable Animal Production

- The ERA-Net SusAn consortium is made up of 37 partner organisations from 22 countries.
- The consortium is coordinated by the German Federal Office for Agriculture and Food (BLE).

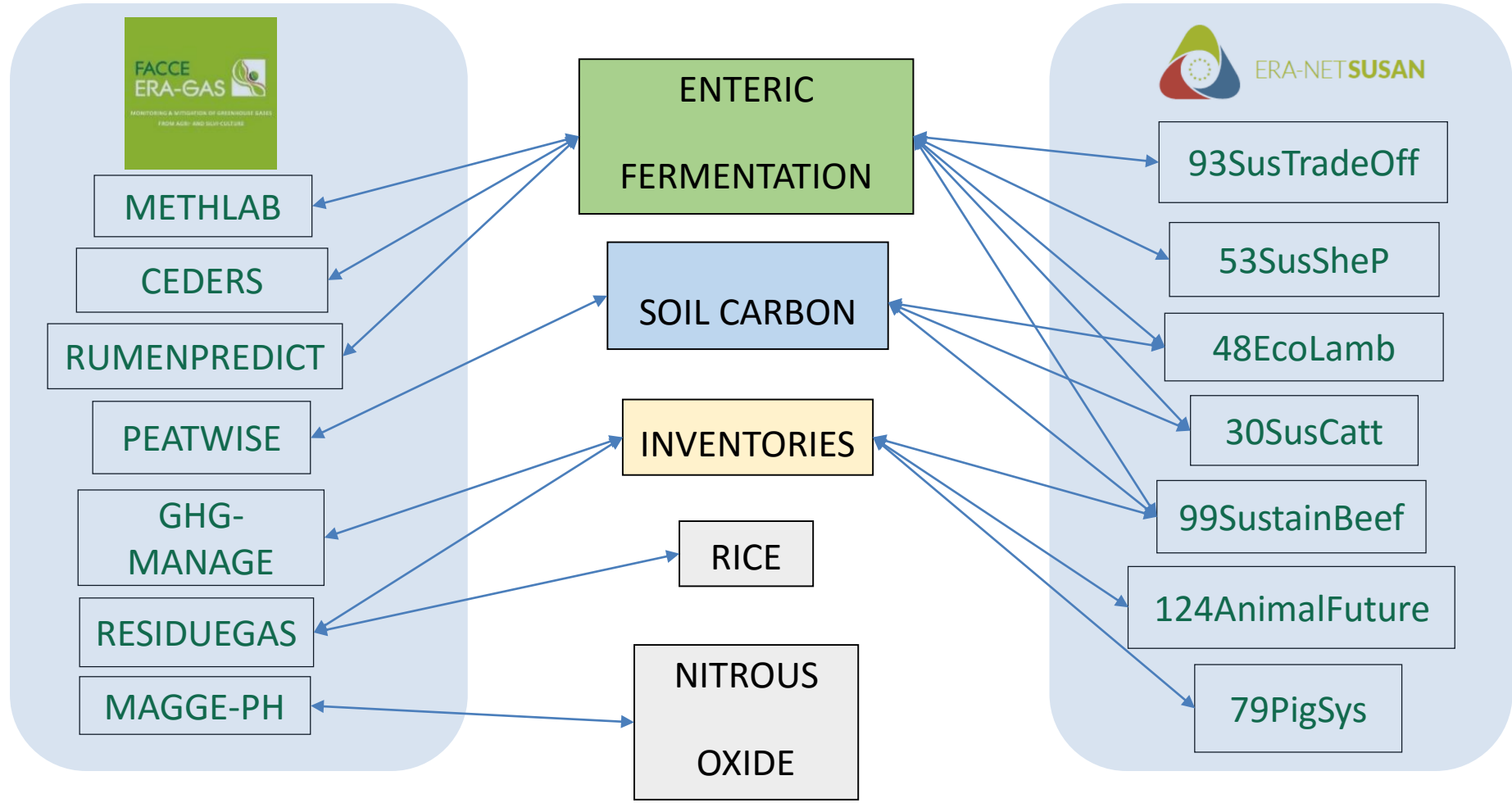
ERA-GAS

Following peer review by international experts, the FACCE ERA-GAS Consortium has selected 10 projects to receive funding in the frame of the FACCE ERA-GAS Cofund. Of these 10, 7 FACCE ERA-GAS projects have direct relevance to the GRA Flagships (see figure 1).

SusAn

Following peer review by international experts, the ERA-Net SusAn Consortium has selected 14 projects to receive funding in the context of the ERA-Net SusAn Cofund. Of these 14, 7 have direct relevance to the GRA Flagships (see figure 1).

Figure 1: Mapping ERAGAS and SusAn to GRA Flagship research topics



- METHLAB - Refining direct fed microbials and silage inoculants for reduction of methane emissions from ruminants.
- CEDERS - Capturing Effects of Diet on Emissions from Ruminant Systems.
- PEATWISE - Wise use of drained peatlands in a bio-based economy; development of improved assessment practices and sustainable techniques for mitigation of GHGs.
- MAGGE-PH - Mitigation of Agricultural Greenhouse Gas Emission by improved pH management of soils.
- RUMENPREDICT - Predicting appropriate GHG mitigation strategies based on modelling variables that contribute to ruminant environmental impact.
- GHG-MANAGE - Managing and Reporting of Greenhouse Gas Emissions and Carbon Sequestration in Different Landscape Mosaics.
- RESIDUEGAS - Improved estimation and mitigation of nitrous oxide emissions and soil carbon storage from crop residues.

- 30SusCatt - Increasing productivity, resource efficiency and product quality to increase the economic competitiveness of forage and grazing based cattle production systems.
- 48EcoLamb - Holistic Production to Reduce the Ecological Footprint of Meat.
- 53SusSheP - Sustainable Sheep Production – advancing animal performance (breeding, feeding, health).
- 79PigSys – Improving pig system performance through a whole system approach.
- 93SusTradeOff - Understanding trade-offs between health and efficiency to improve competitiveness and sustainability of animal production by breeding and management.
- 99SustainBeef - Co-definition and evaluation of sustainable beef farming systems based on resources non edible by humans.
- 124AnimalFuture – Steering animal production systems towards sustainable futures.

What is the opportunity?

- The opportunity exists to link these projects to the GRA Flagships and/or research activities, by inviting GRA members' to participate as additional project partners in order to extend the outputs and impacts of the project.
- Any additional activities undertaken as part of a project enlargement will be funded/resourced separately from the existing arrangements in place between the FACCE ERA-GAS / ERA-Net SusAn project partners and consortium members.
- Enlargement could be any/all of the following:
 - Expanding geographic coverage – more data from different regions
 - Expanding system coverage – e.g. rice residues as part of more general crop residue project, or additional animal species
 - Expanding research focus, e.g. other feed additives beyond antimicrobials

1. Seek interest from GRA Members in participating in GHG Nexus initiative.
2. Identification of interested GRA Members' institutions and associated resource contributions of by late September 2017.
3. Design of additional activities to form part of GHG Nexus by December 2017, through:
 - a) Opportunity for discussions between ERA-GAS project coordinators and interested researchers/representatives from GRA countries at the 1st ERA-GAS Research Programme Meeting (10th – 11th October, Wageningen, Netherlands).
 - b) Opportunities for discussions between SusAn project coordinators and interested researchers/representatives from GRA countries at the 1st SusAn Research Programme Meeting (November. Bilbao, Spain).
 - c) Electronic communications.
4. Review and approval of additional activities.
5. Final decision by GRA Members and their institutions on activities to be advanced as part of GHG Nexus – start of 2018.

Some other examples of “joint programming” opportunities

- GHG Nexus (FACCE-JPI ERAGAS, ERANET SusAn, GRA)
- FONTAGRO project on rice (Chile, Peru, Colombia, CIAT, FLAR)
- MIRSA II – Japan, Asia
- APEC – Japan, NZ, Mexico, Viet Nam, Thailand, Malaysia, Philippines
- CCAC/FAO/NZ – livestock FAO, NZ, 13 recipient countries in Asia, Africa and Latin America, now phase II with World Bank, etc.
- N₂O – Asia Pacific Regional Network for GHGs – Australia + 100 partners
- Landscapes – China, Kenya, CIAT, ILRI, others.
- CIRCASA – led by France + 17 countries
- GRA-CCAFS Scholarships – NZ funded, but opportunities for others and for hosting (~40 PhD research visits linked to GRA and CCAFS research projects)
- CCAC Manure Management proposal – GRA MMN
- Ibero-american INIAs – meeting in October 2017 – opportunity to plan joint work?
- AfricaRice GRA Workshop – September 2017 – opportunity to plan GRA activities in sub-regions of Africa.
- Other....?

ありがとうございます
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