



Department
for Environment
Food & Rural Affairs

UK Participation in the GRA

Overview and update



Forestry Commission
England



Environment
Agency

About the GRA

- The GRA brings countries together to develop ways to grow more food without increasing GHG emissions.
- Established in 2009, the GRA aims to address the global challenge of mitigating GHG emissions and increasing soil carbon sequestration without impacting agricultural productivity, focussing on reducing GHG emissions intensity (emissions per unit of output).
- Founded on the voluntary, collaborative efforts of member countries, aims to enhance scientific capacity via active exchange of data and research, development and extension of technologies and practices and identifying research gaps and potential opportunities for new cross-national research collaborations.
- Activities are progressed by three research groups
 - Livestock
 - Croplands
 - Paddy Rice
 - Plus a cross-cutting Integrative Research Group.

Member Countries

48 Member Countries

Breaking News! Senegal joined the GRA this September!

• Australia

• Egypt

• Malaysia

• Spain



WELCOME TO OUR 49TH MEMBER – SENEGAL

The Global Research Alliance is very pleased to welcome our newest Member country, Senegal.

Senegal became a Member at the 10th Biennial Consultative Meeting of the National Experts Committee of the Africa Rice Centre held in Banjul, the Gambia this month. Senegal is our third African Member, and are looking forward to working together in the future.



• Dominican Republic

• Korea

• Poland

• Vietnam

• Zimbabwe

Working in Partnership with Others



worldAgriculturalforum



Inter-American
Development Bank



CLIMATE &
CLEAN AIR
COALITION
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS



AT A GLANCE

48
member
countries



4 Research
Groups



Paddy Rice
Research
Group



Livestock
Research
Group



Croplands
Research
Group



Integrative
Research
Group

20 Science
Networks



14 partner
organisations



Over **3000** scientists
involved in activities of the GRA



44 international
collaborative projects
supporting the GRA



50 fellowships awarded to
recipients from **25** countries



19 technical training
workshops held



12 technical guidelines,
resource materials and
databases produced



globalresearchalliance.org

@GRA_GHG

June 2017

The UK's Involvement to Date

- Croplands Group
 - Co-authoring N₂O measurement guidance
 - Establishment and maintenance of the GRAMP modelling platform
 - Data provision
 - Participation in MAGGNET
 - Provision of N₂O data sets via the AEDA archive
 - Updating the IPCC emissions factor database
- Livestock Group
 - Co-authoring best practice guidance, and technical manual on low cost chamber measurements
 - Participation in a range of networks including
 - Animal Selection & Genetics
 - Rumen Microbial Genomics Network
 - Manure Management Network
 - Feed and Nutrition Network
 - Leadership of the Animal Health Network
- Cross Cutting Group
 - Scoping the opportunities for EO to provide activity data
 - Co-authoring best practice guidance for measuring soil carbon

Going Forward: GRA Strategic Plan

Key Strategies			
Further Research Collaboration	Foster Outreach, Knowledge Sharing and Information Exchange	Build Effective Partnerships	Leverage Financial and Other Resources
Strategic Objectives	Strategic Objectives	Strategic Objectives	Strategic Objectives
<p>The GRA has achieved broad global participation in research cooperation and investments to help develop relevant practices and technologies.</p> <p>The GRA has built global expertise in relevant knowledge and technologies.</p> <p>The work of the GRA is efficient, effective, and coherent.</p>	<p>There is broad awareness of the GRA's work, particularly its research results and impacts, through an integrated outreach strategy.</p> <p>There is increased availability and accessibility of research results to relevant stakeholders, including farmers.</p> <p>There is widespread adoption of relevant practices and technologies.</p>	<p>The GRA is well connected with other initiatives that carry out activities relevant to GRA work and objectives.</p>	<p>The GRA has strong and ongoing financial and other resources to support its activities and Research Groups, including through multilateral development banks and private and philanthropic organisations.</p> <p>GRA Members and Partners will invest in research and capability building relevant to the GRA mandate, and develop effective mechanisms for resourcing and coordinating collaborative research</p>

Recent Developments and Opportunities

GRA Flagships –Strategic Plan 2016-2020

- GRA Council adopted its first Strategic Plan, which included as part of its priority actions:

“Identify possible GRA Flagship Research Projects for presentation to and review by the Council for potential adoption on an annual basis. “

- Flagships will make a major contribution to the GRA:
 - Reducing greenhouse gas emissions while supporting food security
 - Advancing global knowledge through collaboration
 - Supporting countries in their developing and implementing solutions
 - Promote synergies between mitigation and adaptation
 - Flagships are thematic areas that will be advanced through specific actions and can include research, capacity building, guidance and transfer.
- Excellent opportunity to align Council members' domestic research programmes and Partner activity to the Flagships and to utilise upcoming research calls, both of the GRA and of GRA Partners

GRA Flagships

What are they and how will they work?

- The flagship should offer unique **GRA added value** by utilising the knowledge and expertise across the GRA member countries and Partners.
- The flagship must be **inclusive** and provide opportunities for all GRA members and partners to be engaged in some way. Lack of new funding to allocate to flagship projects by individual countries should not be or remain a major barrier to those countries engaging in activities to which they could add value, and from which they could gain benefit.
- The range of projects should be **relevant**: all GRA members need to have benefit from some or all of the flagship. It is unlikely that every individual project will provide benefit to everybody, but the collection of projects and activities should provide benefits to all GRA members.

GRA Flagships

What are they and how will they work?

- Activities should be **solution focused** and demonstrate a clear link to the development and implementation of mitigation practices/technologies relevant to diverse needs of GRA member countries.
- The range of activities and projects needs to be **multifaceted** and support and create links across policy needs in countries' **climate** and **development** agendas.
- Increasing the **capacity/capability** of member countries to engage in efforts to estimate, measure and reduce emissions is a critical element of the flagship, and necessary to ensure the flagship is inclusive and relevant.

Flagship Proposals

Council Endorsed Proposals

- GRA Council endorsed development of four GRA Flagships:
 - Enteric Fermentation
 - Agricultural GHG Inventories
 - Soil Carbon Sequestration
 - Water Management in Rice Production
 - ...and Nitrous Oxide to be developed.
- Task Forces comprising lead authors, contributing authors and review authors, were established.
- Task Forces prepared Flagship project proposals that outline work to be done, the resources available, and the resources needed (including types of resources, e.g. research funding, post-doc, etc.).

UK Involvement and Commitments

How will the UK's participation be managed?

- Continued support for T&S to engage with workshops and activities via our international collaborations fund
- Continued engagement with the AHN after the handover of the chair to Germany
- Maximising opportunities for collaboration via the ERAgas ERAnet projects (RumentPredict, CEDERS, ResidueGAS)
- Participation in the Enteric Fermentation and Agricultural GHG Inventories Flagships
 - Leadership of the RumenPredict+ proposal under the Enteric Flagship
 - Links to LRG's Rumen Microbial Genomics Network
 - Builds upon the JPI-FACCE ERAgas ERAnet RumenPredict project
 - Engagement and support for the other 3 Enteric Flagship proposals including data provision from the GHG R&D Platform
 - Engagement and support for the Inventory Flagship proposals including data provision from the GHG R&D Platform and sharing of experiences in developing our T2/T3 national inventory