



GLOBAL
RESEARCH
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

Global Research Alliance on Agricultural Greenhouse Gases

Hayden Montgomery
Alliance Secretariat

What is the Alliance trying to achieve?

- **Brings countries together to find ways to grow more food without growing greenhouse gas emissions:**
 - **Find ways to reduce the emissions intensity of agricultural production systems and increase their potential for soil carbon sequestration, while enhancing food security**
 - **Improve understanding, measurement and estimation of agricultural emissions**
 - **Improve farmers' access to agricultural mitigation technologies and best practices**
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Membership

33 member countries:

Argentina

Australia

Brazil

Canada

Chile

China

Colombia

Costa Rica

Denmark

Finland

France

Germany

Ghana

Indonesia

Italy

Ireland

Korea

Japan

Malaysia

Mexico

Netherlands

New Zealand

Norway

Peru

Philippines

Spain

Sweden

Switzerland

Thailand

United Kingdom

United States

Uruguay

Vietnam

Five observer countries: South Africa, Pakistan, Russia, Ukraine, Mongolia

Governance

- Guided by a Council of all Members
 - Chair – Canada
 - Vice-Chair - Uruguay
- Guided by:
 - Charter
 - Communications Policy
- Supported by a Secretariat (NZ)

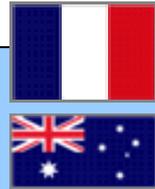


Cross-cutting Groups

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Research



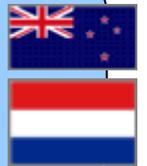
Livestock



Research



Group



Cropland

Inventory and
Measurement

Research

Soil Carbon and
Nitrogen Cycling

Group



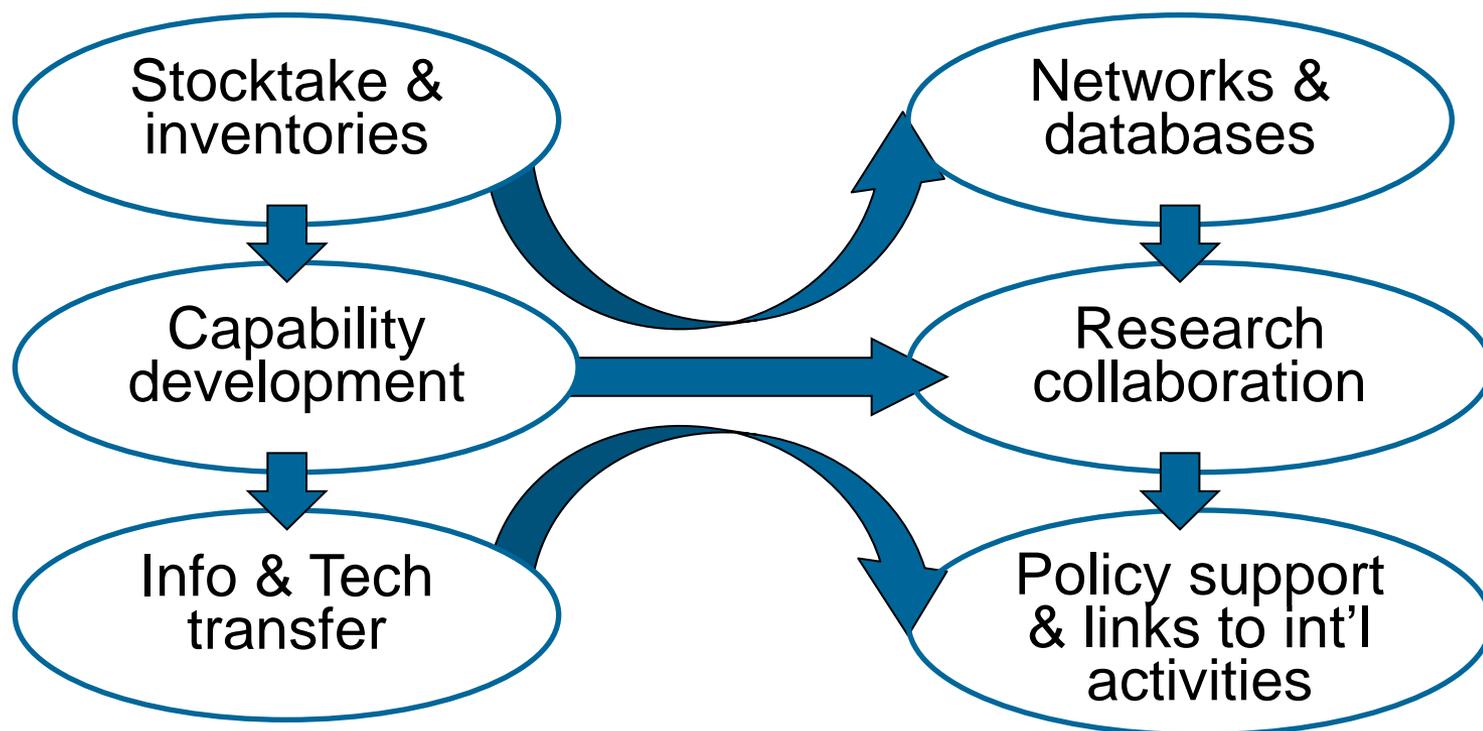
Paddy Rice

Research

Group



From stocktake toward scientific support to policies



Common understanding

Concerted actions

How the Groups contribute to the goals of the Alliance

- **Collaborative Research Projects**
 - **Research Networks**
 - **Joint funding initiatives**
 - **Data sharing opportunities**
 - **Knowledge sharing/transfer**
 - **Developing synergies with other organisations**
 - **Capacity building initiatives**
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Collaborative Research Projects

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FONTAGRO meeting in Uruguay 2012

Research Networks

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- Create
- focus
- Enhance
- Share
- Start
- Develop
- Build capacity



Rumen Microbial Genomics
network meeting, Feb 2011

Joint Funding Initiatives

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Modelling Carbon and Nitrogen emissions

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Mitigating methane
emissions through irrigated
rice fields in Japan with
CGIAR

Data Sharing Opportunities

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UK GHG Platform Meeting

Knowledge Sharing & Transfer

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broader

- Facilitate scientific
- Build
- Harm
- Under review



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Capacity Building

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South-east Asia Technical Capability Building Project

Global Research Alliance Greenhouse Gas Workshop



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Meetings since Rome 2011

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Fundamental for Life:

Soil, Crop, & Environmental Sciences

ASA • CSSA • SSSA International Annual Meetings
in conjunction with the Canadian Society of Soil Science

Oct. 16-19, 2011 • San Antonio, TX

American Society of Agronomy | Crop Science Society of America | Soil Science Society of America

Croplands Research Group:

San Antonio, TX, USA

20 October 2011

Annual Soil Science Society Int. Meetings



Livestock Research Group:

Amsterdam, The Netherlands

5-6 November 2011

6th Int. Symposium on Non-CO₂

Greenhouse Gases

***Paddy Rice
Research Group:
Tsukuba, Japan
18 November 2011***



***Soil C/N Cycling
Cross-Cutting Group:***

Leuven, Belgium

13-14 July 2011

*Int. Symposium on Soil
Organic Matter*



***Inventory and
Measurement
Cross-Cutting Group:
8-10 November 2011
Gatineau, Canada***

The Way Forward

Croplands, and Soil C/N Cycling: joint meetings; 3-7 July 2012, Bari (Italy), during EuroSoil 2012



Livestock: November 2012, Punta del Este (Uruguay), following GCARD 2012

Paddy Rice: planned for late 2012; possible locations: CIAT/Colombia, China, others



Inventory & Measurement: Ghana, October 2012

Challenges Ahead

Coordinating efforts across the Groups

As our work plans develop, the importance of coordinating efforts between Groups and seamless collaboration will steadily increase

Co-chairs through will continue to identify opportunities arising from coordinated approaches to issues of shared concern

Widening our reach

Research Groups need to work with other, often regional organisations to connect with farmers / industry and support policy

- **Strong interest in/benefits from working with other organisations**
 - **Groups will broaden efforts to build on synergies with other organisations relevant to each Group's goals**
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Challenges Ahead

Ensuring an inclusive approach that benefits all

Research is only effective if a wide range of countries participate in knowledge production and its adoption at farm / industry level

The Groups will seek to:

- **Build research capacity through regionally appropriate projects**
 - **Explore and highlight the development (co-)benefits of a proactive management of agricultural GHG emissions**
 - **Explore shared funding mechanisms that promote synergies between available expertise and shared problems and contributions to solutions**
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Alignment of international initiatives

Through:

- Complementary research agendas
 - Concerted actions – between members/organisations
 - Joint meetings of governing bodies/councils
 - Joint meetings of research groups, work packages, programmes, etc
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