



GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

# Introduction to GRA



Hayden Montgomery  
Special Representative  
3 December 2020



We bring countries together to find ways to grow more food without growing greenhouse gas emissions.



Paddy Rice



Livestock



Croplands



Integrative



# AT A GLANCE

**64**  
member  
countries

**23** partner  
organisations

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

**72** international  
collaborative projects  
supporting the GRA

**172** fellowships awarded to  
recipients from **45** countries

**4** Research  
Groups



  
Paddy Rice  
Research  
Group

  
Livestock  
Research  
Group

  
Croplands  
Research  
Group

  
Integrative  
Research  
Group



**17** Science  
Networks



**40** technical training  
workshops held



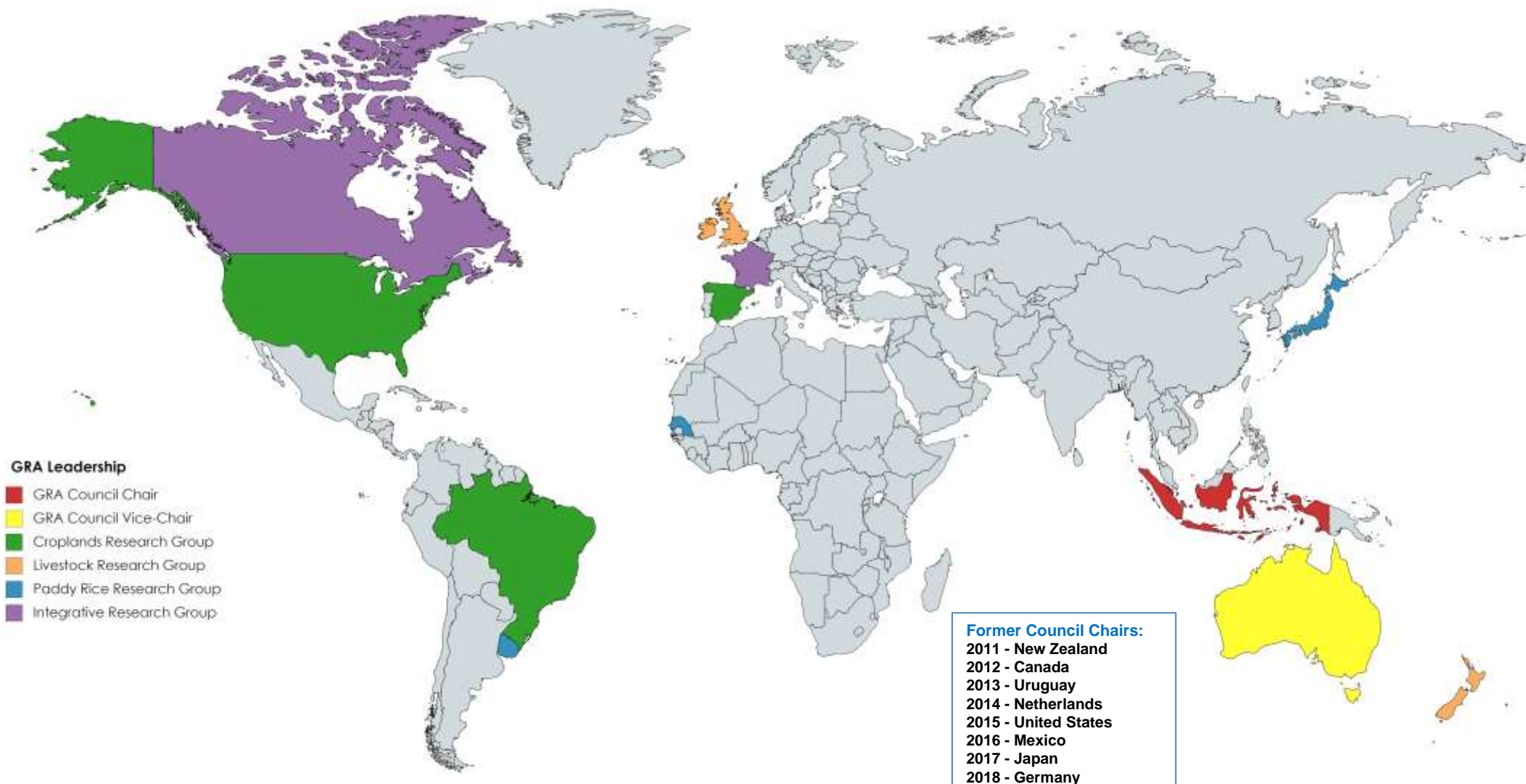
**23** technical guidelines,  
resource materials and  
databases produced



# GRA Leadership

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES





# GRA Partners

GLOBAL  
RESEARCH  
ALLIANCE  
ON AGRICULTURAL GREENHOUSE GASES

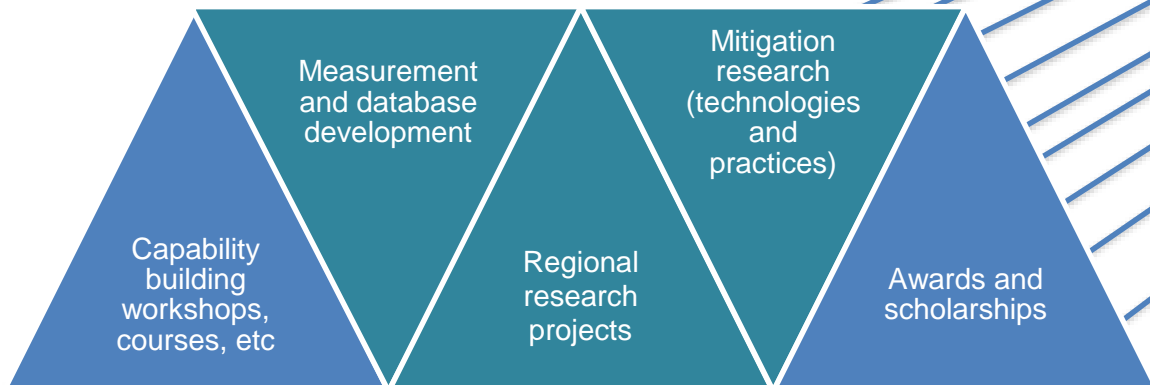
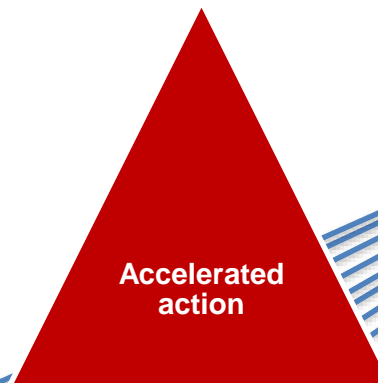
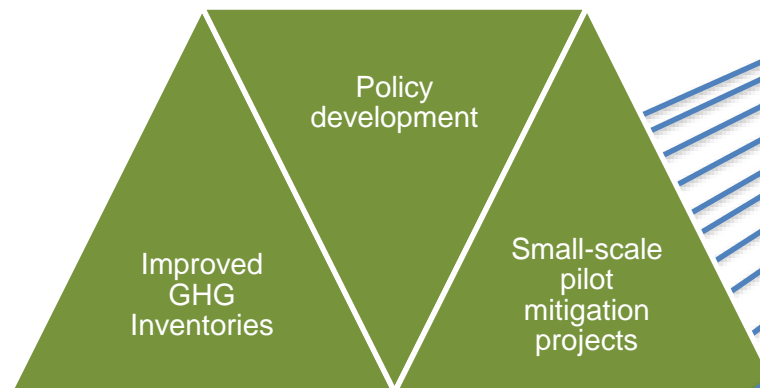


Future



# GRA helping to accelerate action to address climate change in agriculture

GLOBAL  
RESEARCH  
ALLIANCE  
ON AGRICULTURAL GREENHOUSE GASES





# RESEARCH GROUPS

## Paddy Rice Research Group

**Co-Chairs:** Japan; Uruguay; Senegal

- Sub-Groups: Asia Region, Americas Region, Africa Region.
- Water management (AWD) being evaluated for GHG mitigation, economics and other co-benefits.



## Livestock Research Group

**Co-Chairs:** Ireland; New Zealand; United Kingdom

- Animal Health
- Animal Selection, Genetics and Genomics
- Feed and Nutrition
- Manure Management
- Rumen Microbial Genomics

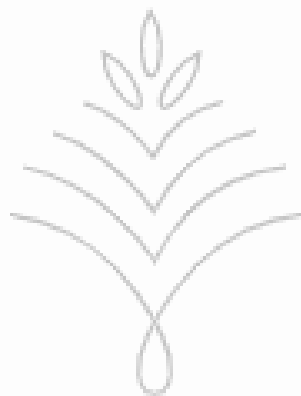


# RESEARCH GROUPS

## Croplands Research Group

**Co-Chairs:** USA; Brazil; Spain

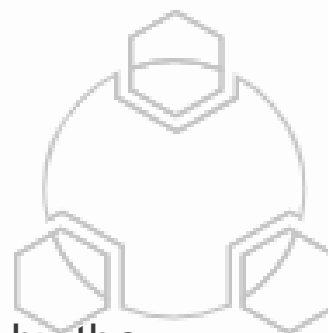
- Agroforestry Systems
- Conservation Agriculture
- Integrated Crop-Livestock Systems
- Landscape Management of Agricultural Systems
- Nutrient Management
- Peatland Management



## Integrative Research Group

**Co-Chairs:** France; Canada; Australia

- Farm & Regional Scale Integration Network
- Inventories and NDC Network
- Soil Carbon Sequestration Network
- **NEW** Circular Food Systems Network established – led by the Netherlands.





# We're making some progress

## Countries getting organised

- Formation of national networks of expertise
- Connecting scientific community to policy community
- Aligning national funding with GRA priorities
- Transferring lessons to others



## Regions getting organised

- Platforms of scientists, rural professionals, policymakers, farmers and agribusiness.
- Integrating climate change into research and innovation agenda
- Building capability



## Higher education

- Increasing participation of Universities in national policy priorities
- Developing curricula



# We're making some progress

## Building early career science capability, e.g. CLIFF-GRADS

So far, 124 PhD students, from 32 countries, based in 50 different institutes from 30 different countries.

### Benefits:

- Early career scientist capability
- New institutional links
- Alumni networks
- Strengthened GRA membership
- New research ideas

## Working with farmers

Building farmer-farmer and science-farmer networks

Farmer leaders from 20 countries have been represented over five study tours

Argentina, Belgium, Canada, Colombia, Egypt, Ethiopia, France, Germany, Indonesia, Italy, Japan, Kenya, Mexico, New Zealand, Paraguay, Poland, South Africa, Switzerland, Uganda and Uruguay.

## Mobilising resources



- Leveraging funding
- Connecting research institutions from different regions
- Multi-disciplinary research





**FOR MORE INFORMATION**  
**[www.globalresearchalliance.org](http://www.globalresearchalliance.org)**  
**[secretariat@globalresearchalliance.org](mailto:secretariat@globalresearchalliance.org)**  
**Twitter: @GRA\_GHG**