



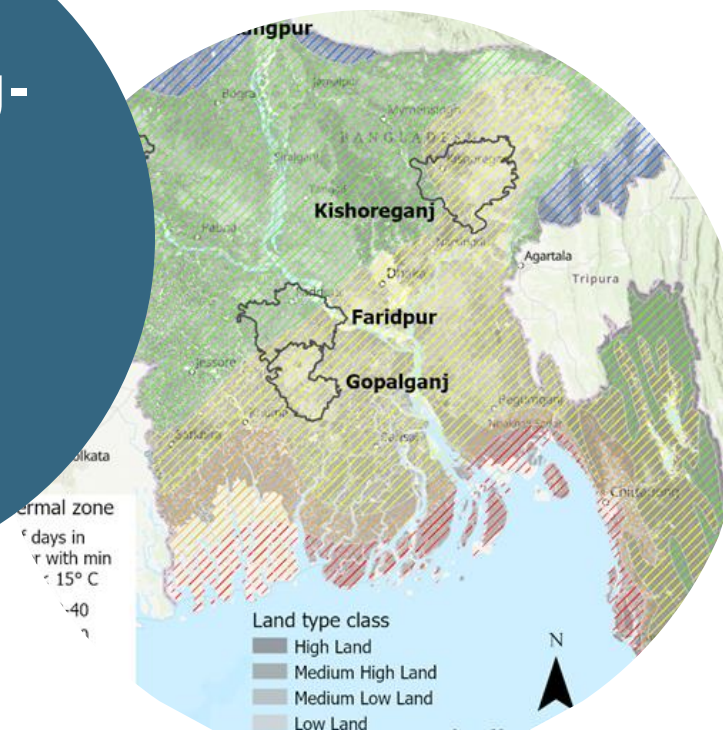
INTRODUCING THE GRA FLAGSHIP PROJECTS

WEBINAR | THURSDAY, 3 NOVEMBER 2022 | 10:00 – 11:15 UTC

Reducing N₂O
emissions &
improving
accounting



Ensuring long-
term
mitigation &
adaptation
co-benefits



INTRODUCING TWO CURRENT GRA FLAGSHIP PROJECTS

PRESENTATIONS + Q&A | THURSDAY, 3 NOVEMBER 2022 | 10:00 – 11:15 UTC



Introduction to the GRA & Flagship Projects

Chair: Dr. Harry Clark, NZAGRC, New Zealand



Development of context-specific emissions factors from the application of nitrogenous fertilisers

Presented by: Dr. Marta Alfaro, Instituto de Investigaciones Agropecuarias (INIA), Chile



Evaluation of mitigation and adaptation co-benefits of agricultural GHG emission reduction strategies over time

Presented by: Erik Mencos, Columbia University Climate School, USA

AT A GLANCE

66
member
countries

24 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 Partners

GLOBAL
RESEARCH
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES



GRA Flagship Projects - criteria

FLAGSHIP CRITERIA

Scope – defined timeline and outcome of global applicability

Participation – wide GRA member involvement / range of opportunities to collaborate (e.g. data, sample or knowledge sharing)

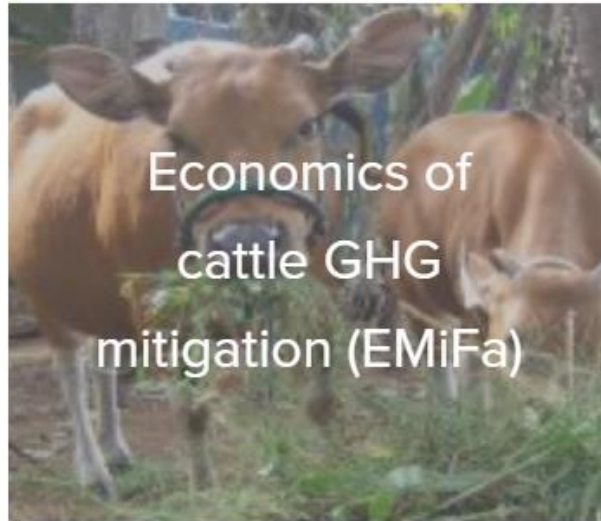
Research – generates new knowledge using an identified community of experts within the GRA Membership

Resourcing – Identified project lead, 30% funding confirmed for core activities. Proposed funding mechanisms for additional activities and contributions identified.

FLAGSHIP APPROVAL PROCESS

1. GRA Flagship Project template to be completed by the lead.
2. The GRA Flagship Project must identify at least five Council Champions, Members and Partners, consisting of at least three GRA Member countries.
3. Council representatives to assess proposed Flagship projects using the criteria (above), and agree on the GRA Flagship projects to endorse.
4. GRA Flagship Projects will be profiled on the GRA website, and once complete final outcomes will be presented to the Council.

GRA Flagship Projects - current



GRA Flagship Projects – current status



Economics of GHG mitigation at farm level in global cattle production systems (EMiFa)

Goal: To identify the most cost-effective options for farm level GHG mitigation strategies in different global production systems and provide evidence-based policy recommendations.

Status: First results presented June 2022, update provided in Session 1



Technical guidelines to develop feed additives to reduce enteric methane

Goal: To accelerate the development and use of feed additives to reduce global enteric methane emissions from livestock.

Status: Work plan developed, dedicated post doc coordinator in place, update provided in Session 1



Evaluation of mitigation and adaptation co-benefits of agricultural GHG emission reduction strategies over time

Goal: To develop and apply new protocol-based methods for providing national decision-makers with evidence-based knowledge to ensure agricultural mitigation strategies have lasting impact.

Status: Project in Bangladesh running until December 2022, update today

GRA Flagship Projects – current status



Expansion, analysis and exploitation of the Hungate rumen microbial culture collection

Goal: To generate new knowledge on the rumen microbiome which will enable novel interventions to reduce methane emissions from livestock

Status: National hubs identified, proof of principle established, aligning with existing programmes



Development of context-specific emissions factors from the application of nitrogenous fertilisers

Goal: To encourage global efforts to reduce GHG emissions from nitrogenous fertiliser by enabling its usage to be more accurately reflected in national level GHG accounting.

Status: Data collection template being finalised, awaiting outcomes of national level funding applications, update today



Satellite monitoring of quantity and quality of available biomass in pastoral livestock systems

Goal: To develop globally applicable tools which improve management of grassland resources and support local initiatives to mitigate and adapt to climate change.

Status: Planning underway