

GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

Review of CRG 2016 meeting, Phoenix AZ

•September 2017

34 participants, 17 countries

Croplands Research Group Meeting Report, 10-11 November 2016 2

□ Discussion on Alliance Flagship projects, and the future development of a Nitrogen Flagship

GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

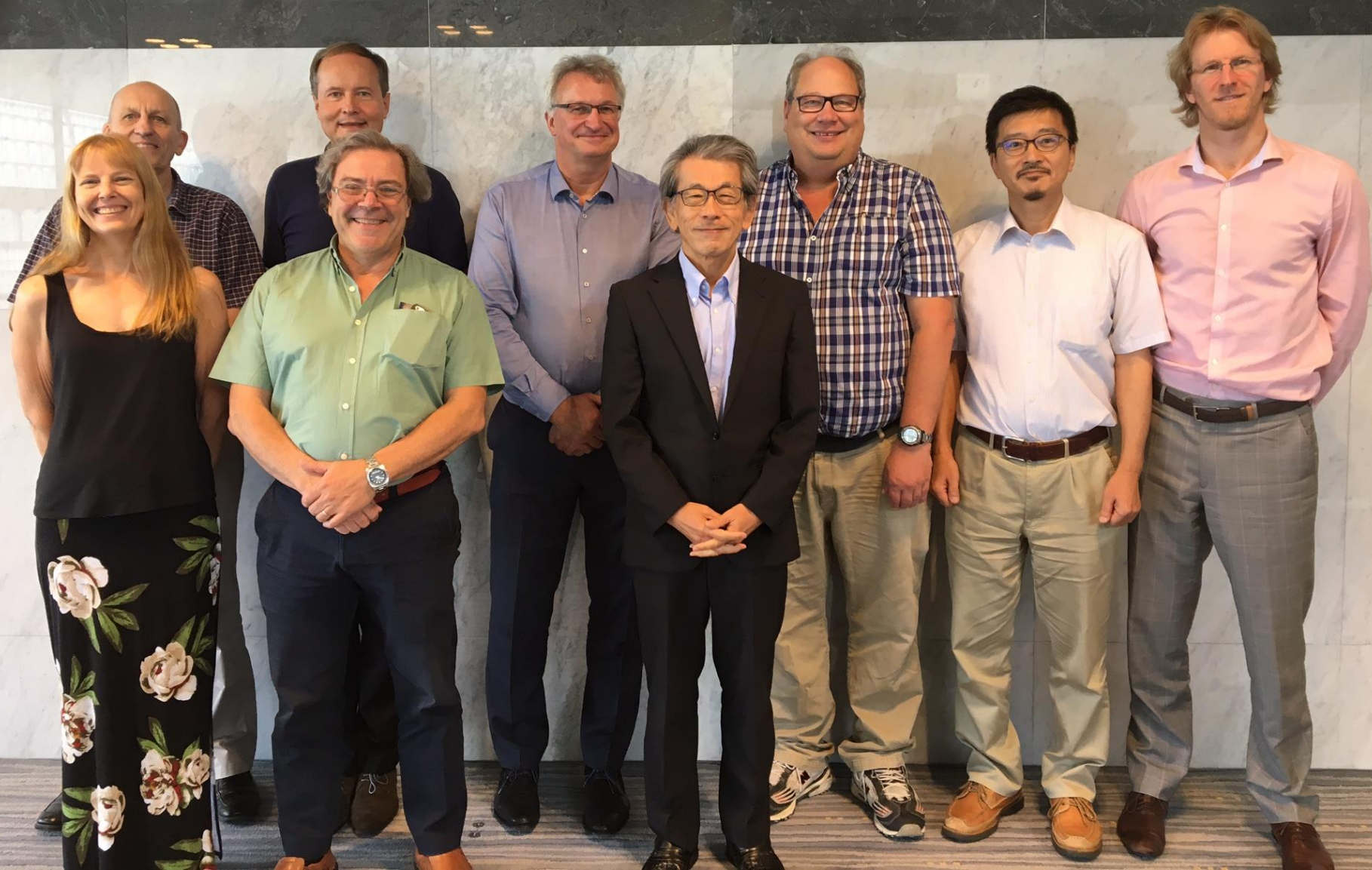
GRA Council meeting, Tsukuba

•29 August 2017

Research Group Co-chairs' Report

Martin Scholten, Harry Clark, Kazuyuki Yagi, Gonzalo Zorrilla, Jane Johnson, Ladislau Martin-Neto, Rosa Mosquera-Losada, Jean-Francois Soussana, Brian McConkey, Lee Nelson

Team of Co-Chairs with Chair 2017



Research Groups

GLOBAL
RESEARCH
ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES

RESEARCH GROUPS



Livestock



Croplands



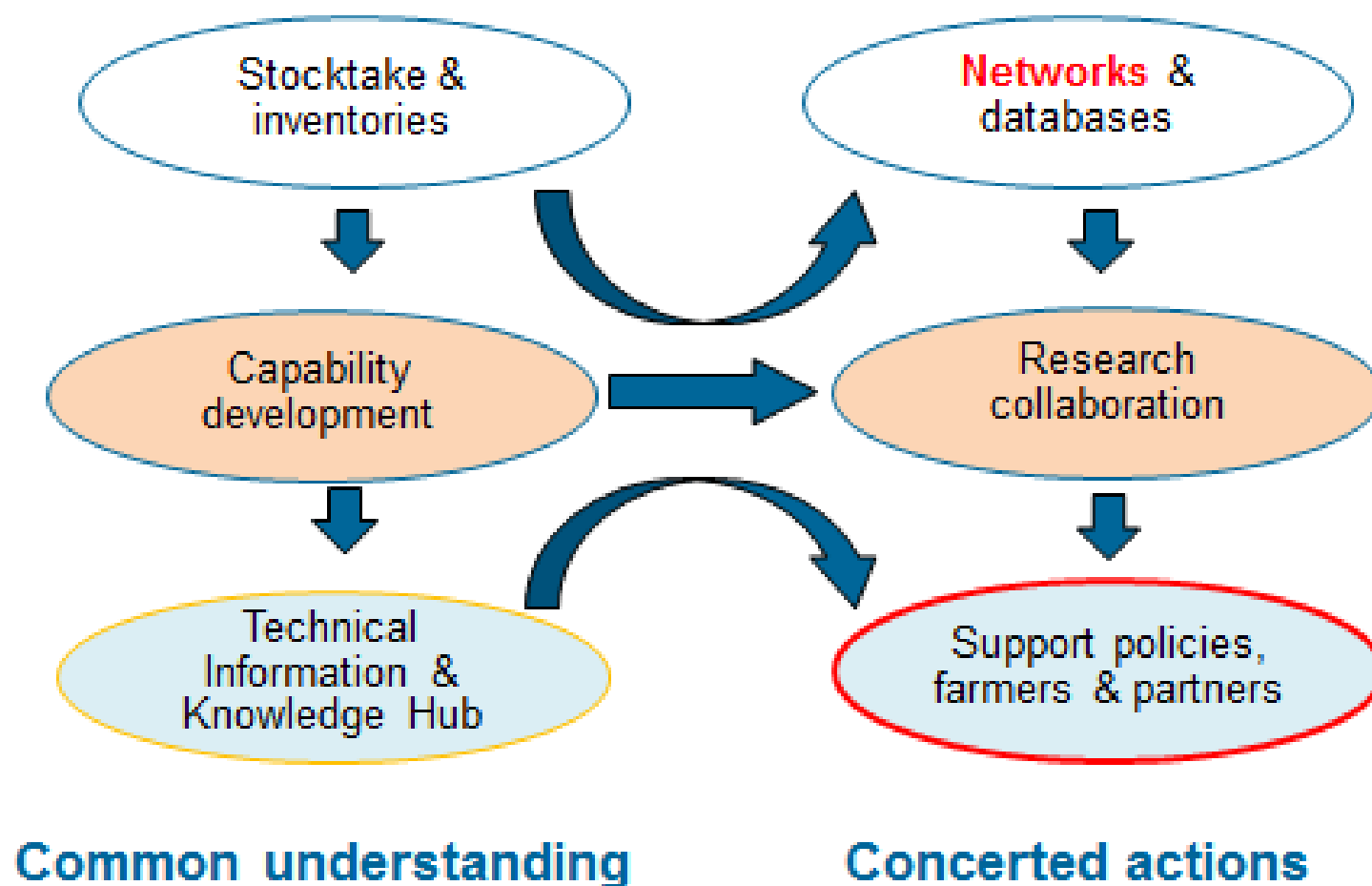
Paddy Rice



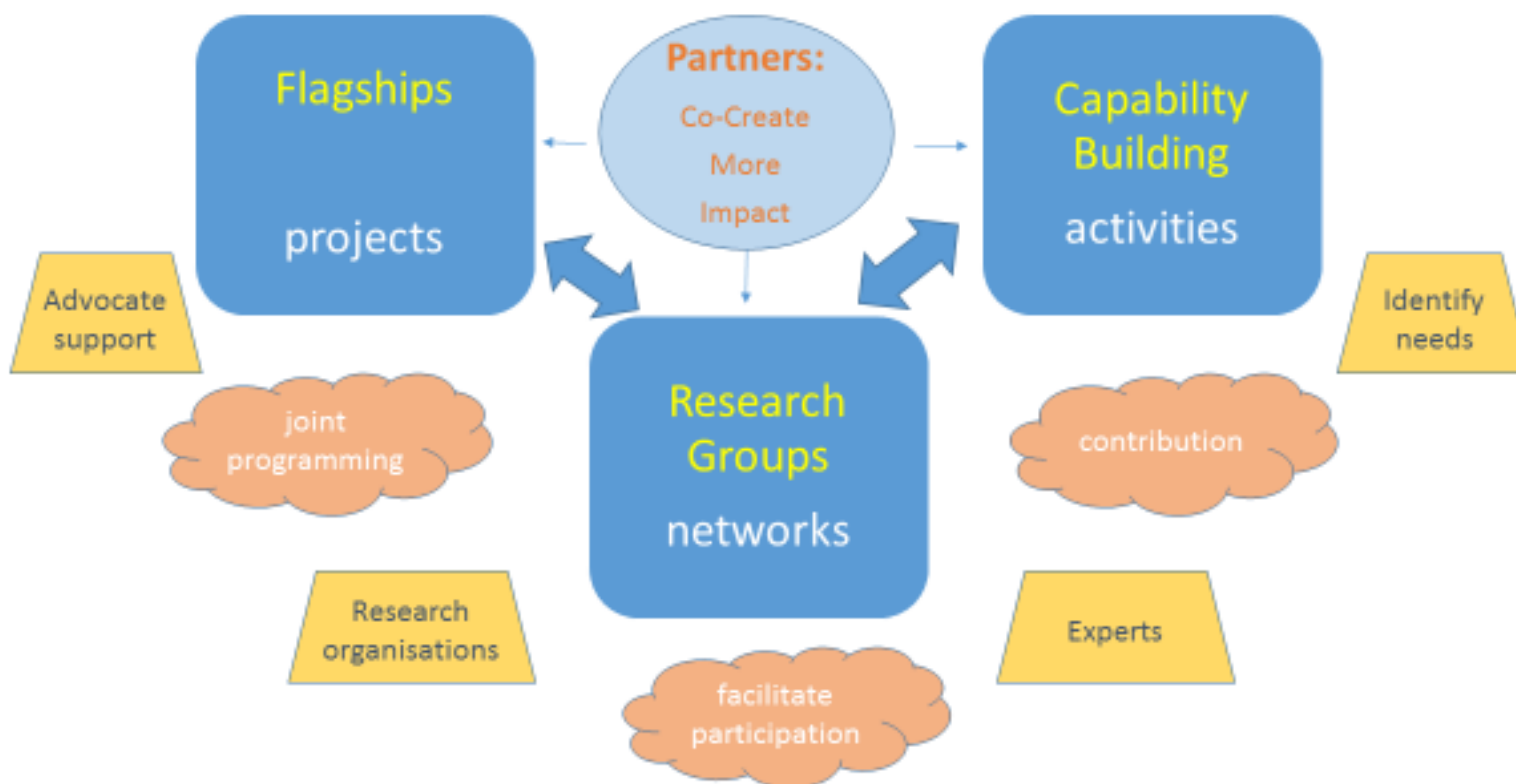
Integrative

GLOBAL
RESEARCH
ALLIANCE
ON AGRICULTURAL
GREENHOUSE GASES

Outline of Work 2011-2016

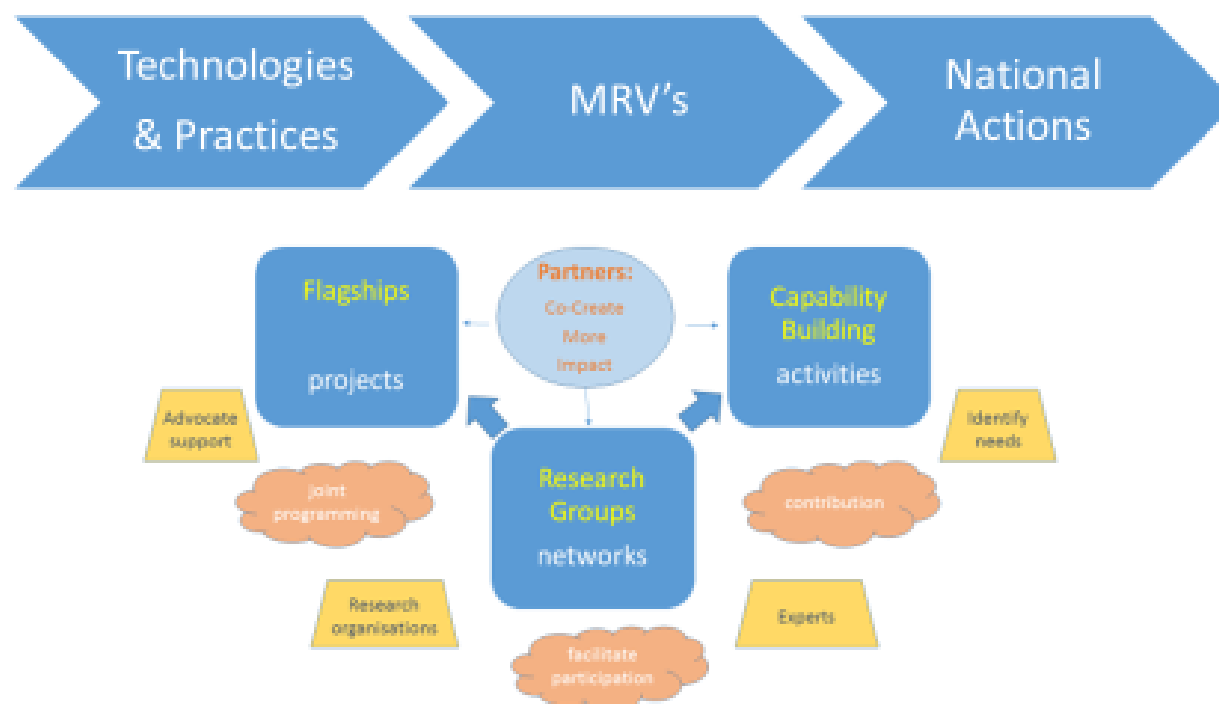


Outline of Work updated 2017+



Impact driven!

We bring countries together to find ways to grow more food without growing GHG emissions



GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

GRA Council meeting, Tsukuba

•29 August 2017



Research Group Reports Achievements & Ambitions

Croplands Research Group: Recent key achievements

- CRG meeting, Phoenix, AZ – USA November, 2016
 - network capacity building

Phoenix | InstaMag



- Successfully recruited a third Co-Chair- thank you to Spain for allowing Dr. Rosa Mosquera-Losada to serve.

Croplands Research Group: Recent key achievements - Networks

- Landscape management Network: Obtained funds* - China and UNEP, granted by National Natural Science Foundation of China. (China and Kenya)/global organizations [International Ecosystem Management Partnership, Institute of Atmospheric Physics (CAS), Institute of Geographic Sciences and Resources Research (CAS), International Center of Tropical Agriculture (CIAT, CGIAR), International Livestock Research Institute (ILRI, CGIAR)]
- Conservation Agriculture Network*-published factsheet, obtained funds for meta data compilation
- Australia led proposal N₂O representing Australian and international collaborators “Asia Pacific Regional Network for Greenhouse Gases” (pending)

Croplands Research Group: Recent key achievements - Activities

- <https://www.facebook.com/gracroplands>
 - ✓ Group activities, GRA news and outcome, Member countries activities (Multi-languages), IPCC, UNFCCC, FAO news and outcome
- MAGGnet – continuous to expand metadata content
- Working with CRG Conservation Agriculture Network to identify sites for meta-analysis of conservation ag practices.
- Creation of a searchable, online meta-database of experimental sites is ongoing (resource limitations an issue).

Croplands Research Group: Main ambitions

- Enable and support networks
- Via the networks continue to develop capacity building through multi-country activities
 - Conservation Ag – 1) Identify and highlight Conservation AG case studies – peer-reviewed pub. 2) Understand management practises for cover crops which impact soil organic carbon and GHG emissions
- Identify how networks can contribute to relevant GRA Flagships (e.g., Soil Carbon Sequestration, GHG Inventory, Possible future Flagships on Nitrous Oxide and Circular food system)

Croplands Research Group: Main ambitions

- Support CRG activities –
 - MAGGnet metadata collections of relevant publication
 - GRAMPS – Modelling platform
 - Social media activities via Facebook and Website
 - Literature Database
- Enhance communication and coordination among CRG co-chairs, Network leaders and membership
- Next meetings: 8 September 2017 in United Kingdom, Tentative August 2018 in Brazil – Potential for shared session with other RG.

Integrated Nutrient Management Network

Conservation Agriculture Network

Landscape management network

Irrigation Efficiency Network

Integrated crop-livestock systems

Agroforestry systems

Peatland management

CRG network	Country	activity
Integrated Nutrient Management Network	USA	Draft fact sheet 10 countries
Conservation Agriculture Network	Canada	None reported
Landscape management network	China	None reported
Irrigation Efficiency Network	USA	None reported
Integrated crop-livestock systems	USA	Minimal-
Agroforestry systems	Canada	None reported
Peatland management	Norway	None reported