

The work of the Research & Cross-Cutting Groups of the Global Research Alliance

Global Research Alliance Council Meeting
June 5, 2012, Saskatoon, Canada

Cross-cutting Groups

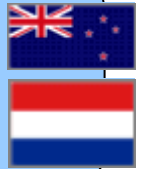
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ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

Research



Livestock



Croplan

**Inventory and
Measurement**

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**Soil Carbon and
Nitrogen Cycling**

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Our Collective Vision

Increase agriculture production with lower emissions

Feeding the world while caring for the environment

Improve global cooperation in research

Accelerate/strengthen knowledge and technology development that would not happen without the Alliance, with a common research agenda, joint capacity building

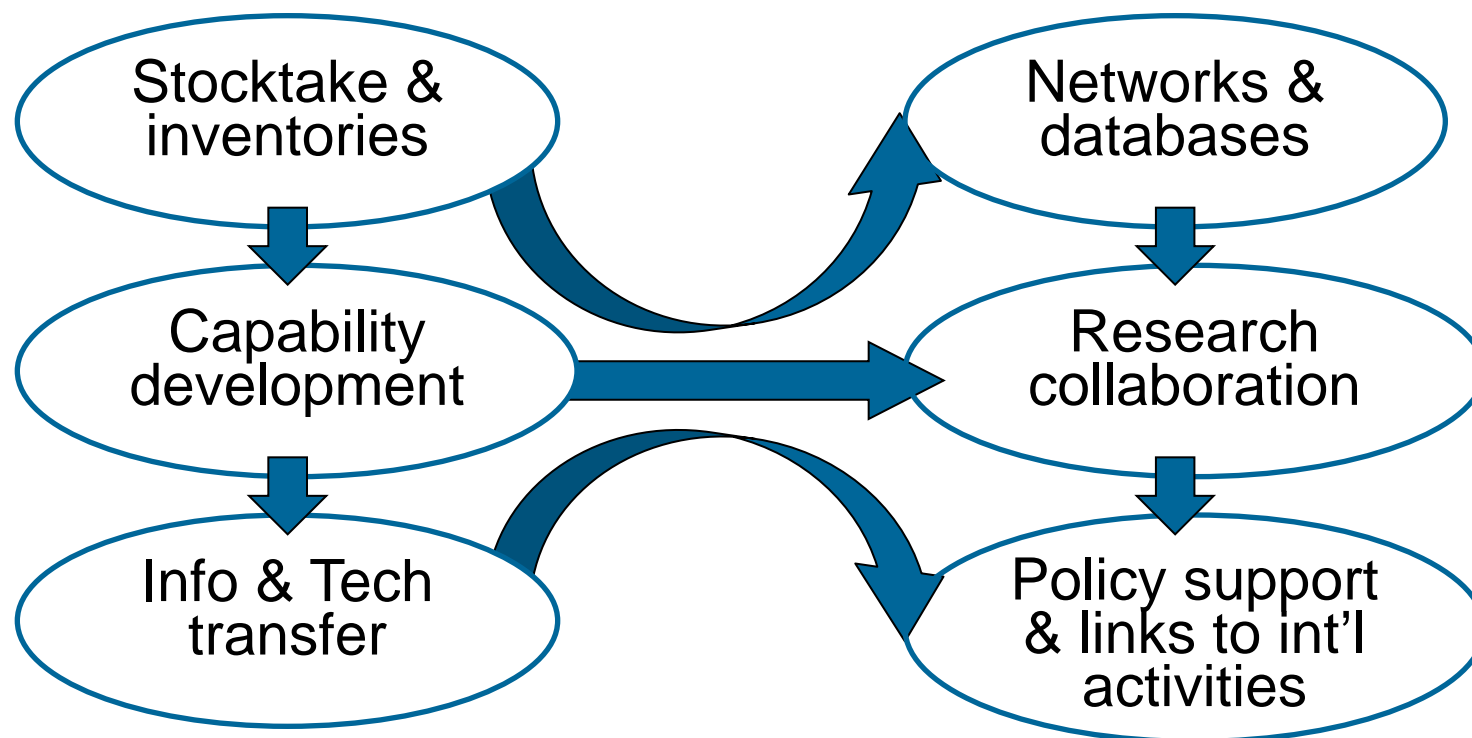
Work with farmers and partners to provide knowledge

Develop relevant mitigation options while increasing the resilience of food production systems

From stocktake toward scientific support to policies

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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**
 - **Information and Technology Transfer**
 - **Developing synergies with other organisations**
 - **Capability Development**
-

Collaborative Research Projects

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Accelerated
that will

Development
Alliance

- Defining regional
- Pooling resources
- Preparing
- Collaborative



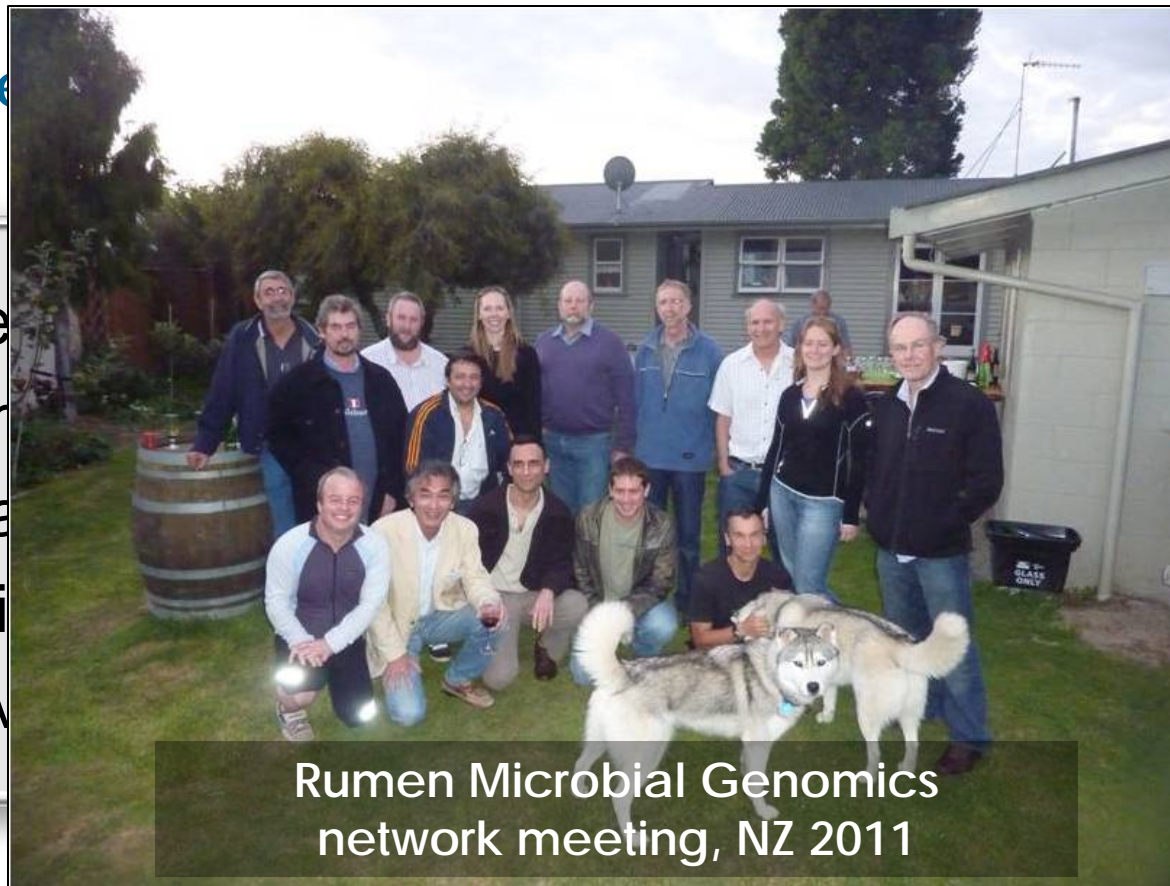
FONTAGRO meeting in Uruguay 2012

Research Networks

Access

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- Create
- Enhance
- Share
- Guide
- Develop



Joint Funding Initiatives

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Modelling Carbon and Nitrogen emissions

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Working with CGIAR to
mitigate methane
emissions from irrigated
paddy rice fields



Data Sharing Opportunities

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GHG Measurement Platform Meeting,
UK 2011

Information and Technology Transfer

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Capability Development

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South-east Asia Technical Capability Building Project,
Thailand 2012

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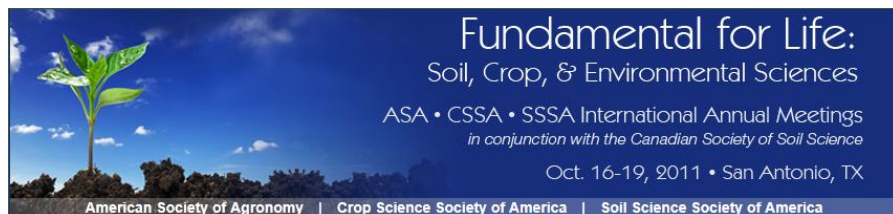
Global Research Alliance Greenhouse Gas Workshop



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Meetings since Rome 2011

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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*

Livestock Research Group

Co-chairs: Martin Scholten (Wageningen UR), Harry Clark (NZAGRC)



Livestock Research Group

Support: Jac Meijs ((Wageningen)
Victoria Hatton (NZAGRC)
Andy Reisinger (NZAGRC)

Ruminant Working Group



Co-Leaders: Harry Clark (New Zealand) and Veronica Ciganda (Uruguay)

Members: All members of the LRG are also members of this working group.

Focus: Addressing emissions from housed and grazing ruminants (CH_4 from enteric fermentation, N_2O from urine deposited on soils, and soil carbon stored under pastures and feed crops). Manure management issues are covered by the non-ruminant group.

Non Ruminant Working Group



Co-Leaders: Paul Vrieskoop (The Netherlands) and La Van Kinh (Vietnam)

Participating countries: Colombia, China, Denmark, Finland, France, Germany, Japan, Korea, Malaysia, Mexico, the Netherlands, UK, USA and Vietnam

Focus: Manure management for both non-ruminants and ruminants. Manure is the biggest source of emissions from non-ruminants.

Livestock

– Research Networks

Rumen Microbial Genomics (RMG)



NZ lead with 40+ members; second meeting in June 2012 (France)

Animal Selection Genetics and Genomics (ASGG)



NZ/Australia lead; 30+ members; 2nd meeting July 2012 (Australia)

Feed and Nutrition



Switzerland lead with 20+ members; first meeting in September 2012 (Switzerland)

Manure Management



The Netherlands lead with 17 members; first meeting in September in conjunction with Livestock Dialogue and FAO

Animal Health and GHG intensity (under development)



UK lead; initial scoping meeting mid-June 2012 (Bangkok)

Livestock – Collaborative Research Projects

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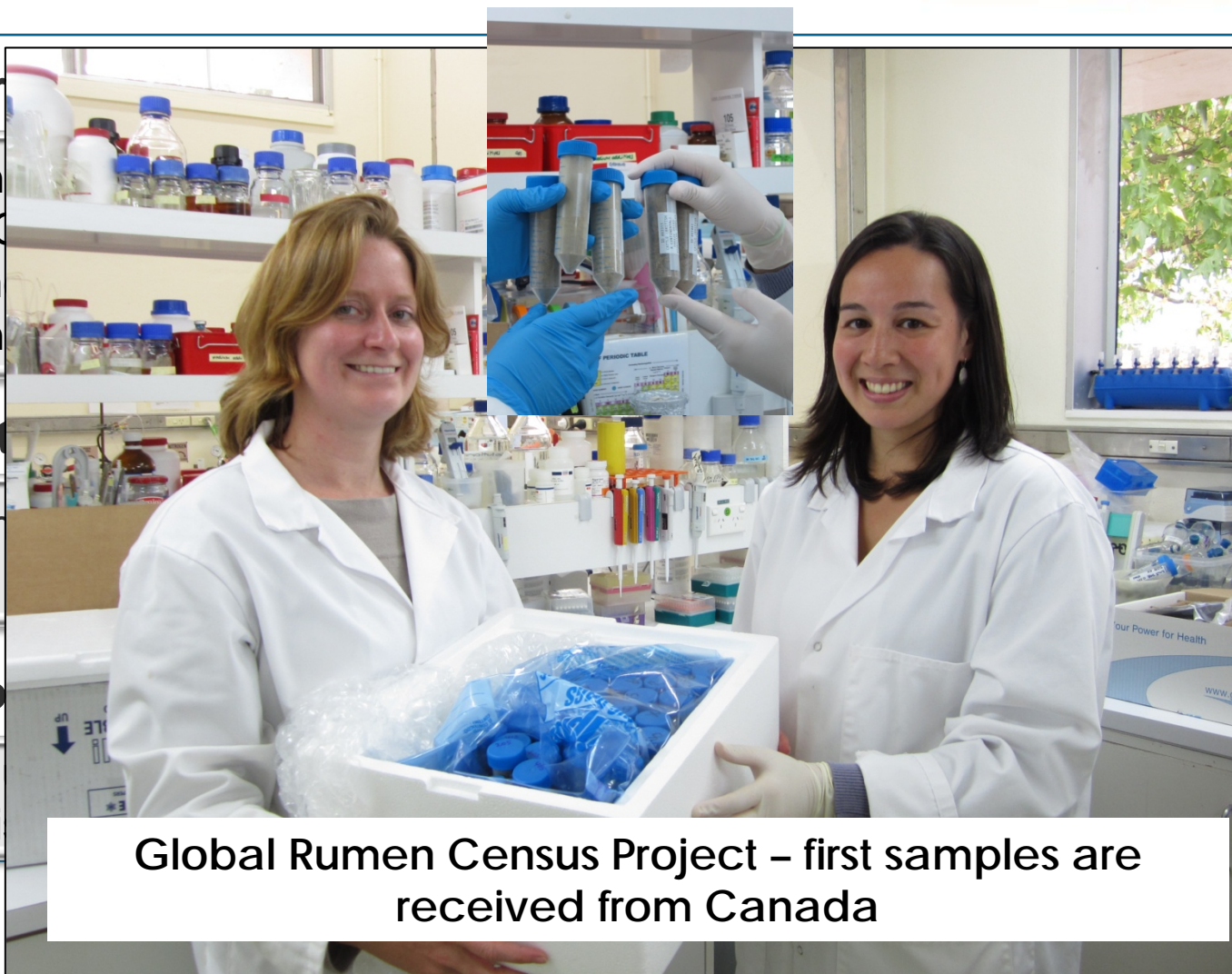
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Global Rumen Census Project – first samples are received from Canada

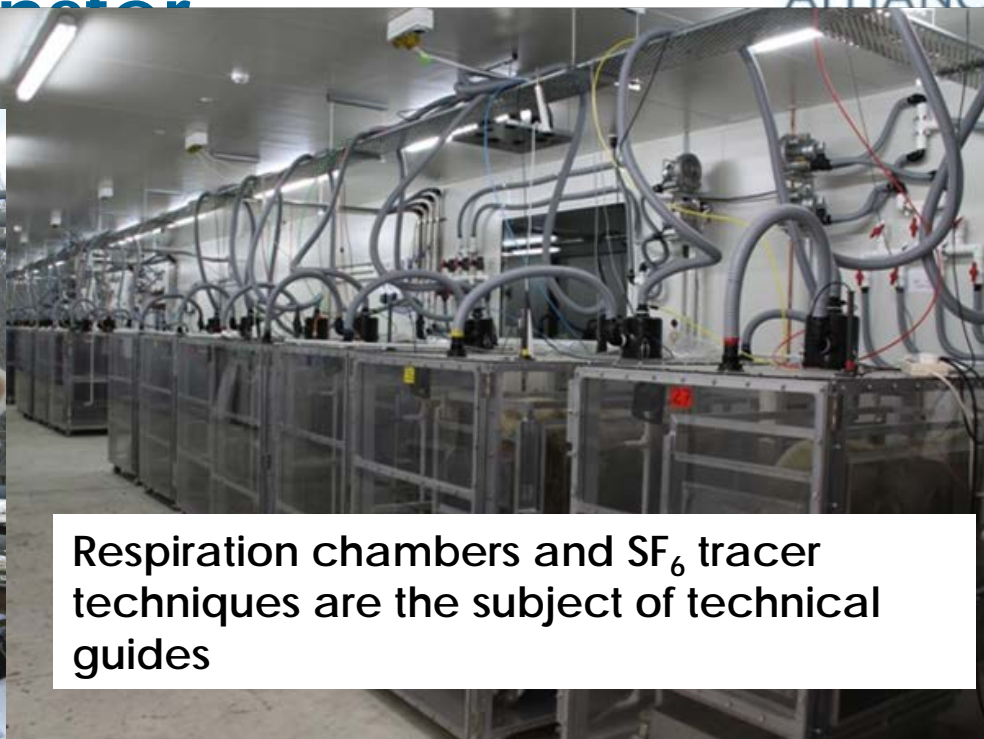
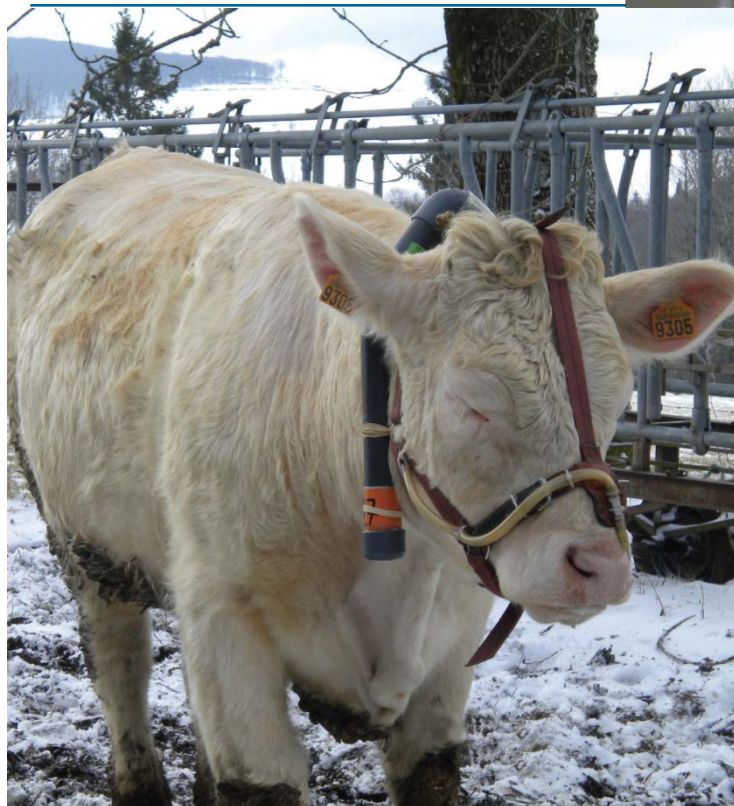
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CH₄

Livestock

– Knowledge Transfer

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Respiration chambers and SF₆ tracer techniques are the subject of technical guides

- Open network of interested individuals sharing between Policy, Industry



Learn

Livestock Emissions &
Abatement Research Network

ation

Livestock

– Resource development

Joint funding initiatives

- **Climate Change and Livestock** : Quantification and Mitigation of Methane and Nitrous Oxide Emissions from Grazing Livestock Systems in five S. American countries, joint funding from NZ, FONTAGRO
- **Opportunities**: EU-FACCE (JPI) members and other Alliance countries; bilateral pooling of funds towards joint projects; New Zealand Global Partnerships Fund

Developing synergies with other organisations

- **FAO Livestock Dialogue**: linking research and science to policy
- **International Meat Secretariat**: awareness raising via newsletters
- **Sustainable Agriculture Initiative**: newsletters, potential trials of tools
- **ILRI/CCAFS**: joint capacity building efforts, farm systems
- **IPCC**: contribution to capacity building initiatives on emissions estimation

Livestock – Capability Building Initiatives

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LEARN Award recipients
from China, India, The
Netherlands, & Argentina



Global Research Alliance Greenhouse Gas Workshop

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Participants at the SE Asia Technical capability building workshop

Summary of Progress to Date

- ✓ We created added value and support to researchers in the Alliance countries
- ✓ We accelerated and strengthened global cooperation in research

- ✓ Collaborative Research Projects
- ✓ Research Networks
- ✓ Joint funding initiatives
- ✓ Data sharing opportunities
- ✓ Information and Technology Transfer
- ✓ Developing synergies with other organisations
- ✓ Capability Development



Future Group Meetings

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: tbc (early 2013)

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