Global Research Alliance

“Grassland Research Network” (GRN)

José Ignacio Velazco (Fernando Lattanzi)
Grassland Research Network

Grassland Based Production Systems and Greenhouse Gas Emissions
Grasslands cover 26% of the world land area and 70% of the world agricultural area, largely used only for livestock grazing.

- **Enteric fermentation**
  - $\text{CH}_4$
  - $\text{N}_2\text{O}$

- **N-urine N-fertilizer**

- **Carbon sequestration!**

**GRN proposed** in LRG meeting in Punta del Este, **November 2012**

**GRN established** in LRG meeting in Dublin, **June 2013**.
Scope of the Network

- Focus on both Rangelands and Pastures
- Best management practices related to C sequestration at farm perspective and potential of C sink in different farming systems
- Explore synergies between adaptation and mitigation strategies
- Improve understanding of the implications of soil organic carbon losses and degradation
- Identifying knowledge gaps and opportunities for research collaboration between grasslands systems and rangelands systems
- Build capacity
Global GRN Coordination: Uruguay – Fernando Lattanzi (flattanzi@inia.org.uy)

Continental Regions Coordinators:

- **Africa**: Klaus Butterbach-Bahl (K.Butterbach-Bahl@cgiar.org),
- **Asia**: Qingzhu Gao (gaoqingzhu@caas.cn),
- **Australia & New Zealand**: Peter Grace (pr.grace@qut.edu.au)
- **Europe**: Gary Lanigan (Gary.Lanigan@teagasc.ie)
- **Latin America** (& also global coordinator): Fernando Lattanzi
- **United States & Canada**: Rick Todd (Richard.Todd@ARS.USDA.GOV)
Countries that have joined the GRN:

**Latin America**
- Argentina
- Brasil
- Chile
- Colombia
- Costa Rica
- México
- Paraguay
- Uruguay

**Africa**
- Kenya

**Asia**
- China

**Europe**
- Ireland
- The Netherlands

**Australia & New Zealand**

**United States & Canada**
Advances on the Working Plan

Stocktaking

Latin America Stocktaking

- **Four countries** completed the stocktake
- **46 entries** with research projects information on Carbon Sequestration and GHG quantification.

  Brasil (south): 20  
  Chile: 1  
  Costa Rica: 13  
  Uruguay: 12

Regional Workshops

Latin American workshop was planned for October 2014, postponed to **March 2015** in Uruguay (with funding support from INIA-Uruguay).
What do we expect for the future?

- Co-chairs from other regions of the world
- A support group (5 to 10 highly motivated experts)
- More GRA countries joining the GRN.
- Develop communication and collaboration among the GRA Livestock Research Group Networks (soil carbon and nitrogen cycling cross-cutting group)
Some questions for the afternoon

• Which are the main areas where a Grassland Research Network would add value?
• First Strategy: Focus on C sequestration to begin, follow adaptation and mitigation; any suggestions?
• Which do you think are the main common areas between GRN and other ongoing initiatives?
• Do you see synergies?
• Designing adaptation and mitigation strategies based on the simulation results as an input for GRN, viable?
Grassland Research Network

Thank you!

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