



Libertad y Orden

MINISTRY OF ENVIRONMENT, HOUSING AND TERRITORIAL PLANNING
COLOMBIA CLIMATE CHANGE MITIGATION GROUP



Ministerio de Ambiente, Vivienda y
Desarrollo Territorial
República de Colombia

Methane to Markets Partnership

Agriculture Subcommittee Meeting

Lucio Santos

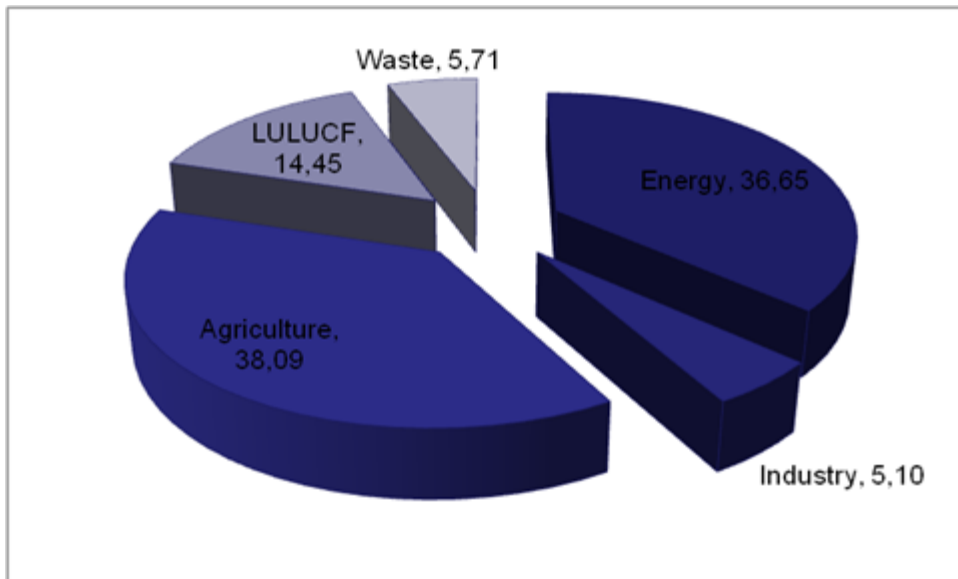
Agriculture Advisor

Colombia Climate Change Mitigation Group

New Delhi, India – March 5th, 2010

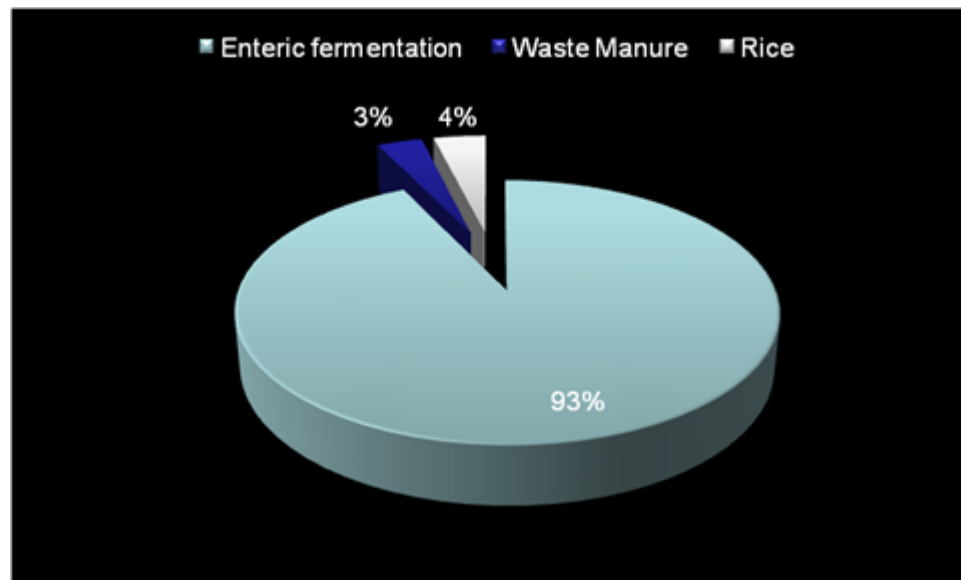
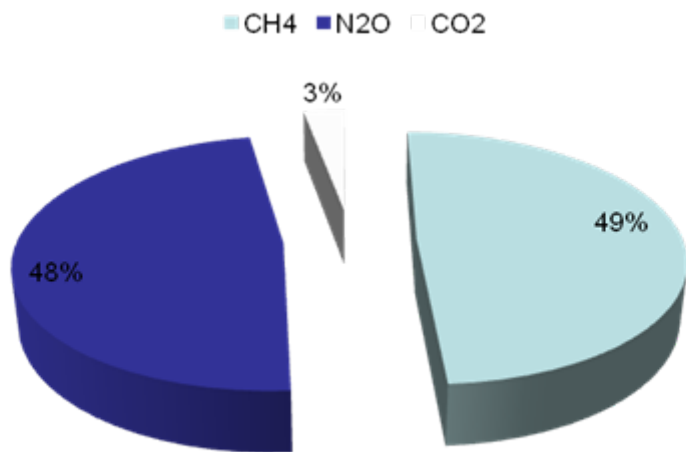
GHG Emissions of the Agriculture Sector

NATIONAL COMMUNICATION



- 180 M Gt CO₂ eq
- 0,37 %

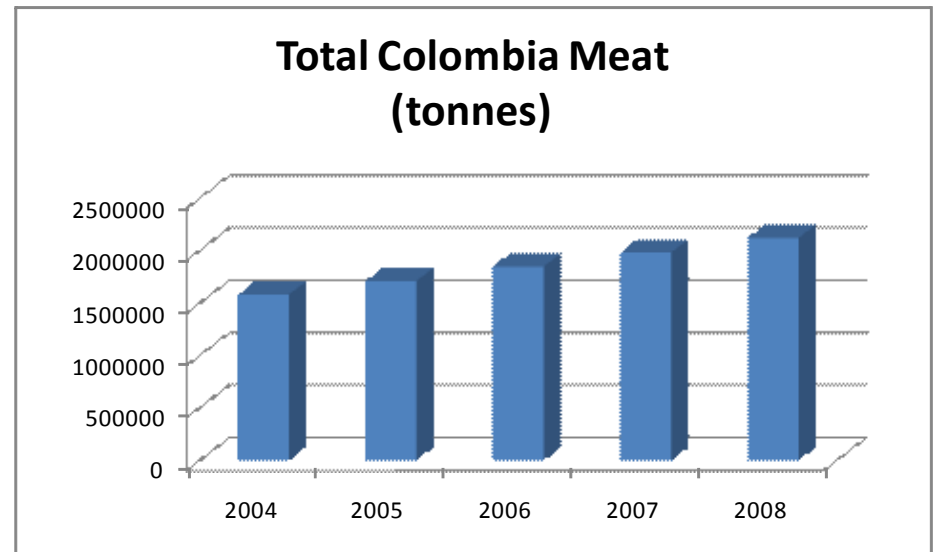
GHG Emissions of the Agriculture Sector



- **66% of GHG emissions of CH4 from AS**
- **95% of GHG emissions of N2O from AS**

Sector Description

- **Total Land Agriculture Use: 42M of Ha (37% of the National Surface)**
 - *38 M to livestock (Cattle ranch, dairy cow)*
 - *26th meat production in the world and 3th in South America (FAOSTAT 2004-2008)*
 - *4 M land use for crops*
 - *450.000 ha tech rice production*



Production growth 34% from 2004 to 2008 (source data FAOSTAT)



Which are the prospects?

In the framework of document “Visión Colombia 2019 : Aprovechar las potencialidades del campo” (National Department of Planning)

- Colombia hopes to release **10 million hectares** that are currently under extensive cattle farming.
- **Increasing** the load per hectare of cattle livestock unit from 0.6 heads to **1.5**.

These goals impose a challenge in terms of:

- Adoption of systems under confined conditions and implementation of anaerobic manure management systems to achieve methane recovery.
- Management and optimization of animal diets

And M2M in this process?

- Ongoing M2M in the sector: Resource Assessment for Livestock and Agro-Industrial Wastes – Colombia.
 - to identify and describe the potential for incorporating **anaerobic digestion** into **livestock manure** and **agro-industrial waste management** systems to reduce methane emissions and provide a renewable energy source
- Analysis emissions abatement measures and options for mitigation of enteric fermentation methane emissions.
 - Definition of monitoring systems to assess animal diet emissions.
 - Assessment of different animal diets.
- Strategies for mitigation emissions from rice cultivation.



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