Low - Carbon Livestock Research Network
Thanks for the presentation!
Introduction

- The LCL-RN was established around August 2020

- The aim of the LCL-RN is:
  a) To improve the quantification and estimation of GHG emissions and carbon capture in livestock systems
  b) To identify mitigation options for a sustainable livestock.
  c) To improve the national inventories in the participating countries.
Some sources of information for improving inventories


Why it matters to improve inventories

Advanced inventories using Tier 2 methods are beneficial for livestock development for a range of reasons. They:

• Reflect a country’s national circumstances and actual production systems
• Allow reporting trends in emissions intensity as well as absolute emissions
• Capture reductions of emissions intensity resulting from increased productivity/efficiency at farm and national levels
• Allow a much wider range of potential mitigation actions to be captured
• Use data from multiple sources that can also support other work e.g. agricultural development plans, industry support programmes, water quality forecasting
• Allow development of tailored national policy to accelerate productivity gains and enhance credibility of policy measures
• Can facilitate climate-friendly branding and market access for livestock products
Members and organization

- The network has different partner countries: Argentina, Brazil, Chile, Colombia, France, Mexico, Peru, Spain and Uruguay.

- The LCL-RN has 4 sub-groups: Rumen and Soil Microbiology; Carbon and Soil Sequestration; Modeling and Inventory Development; and Feed Nutrition and Manure Management.
Modeling & Inventory Development Sub-group

· **Goal:**
  - Evaluate and propose alternatives for sustainable livestock systems based on models.
  - Contribute to the improvement of national inventories (e.g. emission factors).

· **Activity:**
  - Use data to improve GHG emission and sequestration predictions.
  - Determine mitigation options and tradeoffs (other nutrient losses).
On-going projects: Am SUD (2021-2022)

- Transfer of competency and technology in GHG emission measurement, GHG modelling, GHG inventory development, GHG mitigation, C sequestration and rumen microbiology.

- Develop databases for GHG emissions and C sequestration of pastoral systems.

- Determine research gaps and if sufficient data is available BMPs to increase livestock productivity, reduce GHG emission intensity, and increase C sequestration of pastoral systems.

- Publish a policy brief that highlights research findings to guide country to achieve their national determined contributions (NDCs).
On-going projects: CYTED (2021-2024)

- To estimate and **improve national GHG inventories**:

  a) Compile regional data and develop improved methodologies for estimating GHG inventories in the livestock sector of the country members.

  b) Establish and maintain direct communication with the ministries, public organizations and producers of the livestock industry to promote data compilation and estimation of GHG inventories.
Perspectives for the future
Thank you for your attention!!!!

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