

Enteric Emissions Flagship Development - Group 1

- Greater emphasis and linkage to production efficiency
- Narrow in scope
- Need to deal with cross cutting issues.

Proposed alterations to flagship components

- Production environments
- Manure management - greater returns
- All approaches should be developed with an appreciation for the outcomes and benefits to producers.

Suggested Flagship projects

- Characterizing rumen microbiome - host interactions for reduced CH₄ emissions and improved production efficiency using single methodologies.
- New approaches to developing low methane emissions forages through gene editing (Crispr-CAS).
- Use of industrial feed by-products (i.e, Copra, Peanut meal, Palm kernel cake) to reduce CH₄ emission
- New tools for use in the selection of low CH₄ emitters
- Plant bioactives and their influence on enteric emissions, production efficiency and ability to replace antibiotics

Suggestions for project support and linkages

- ERAGAS, GPLER
- Genter - INRA -working on robustness - G X E modeling
- Carbon Sequestration and Land Use Change
- Water Footprint
- Biodiversity
- Ecosystem Services