

# **National Livestock Methane Program II**

## PLAN ON A PAGE



**GOAL** 

To bring profitable livestock methane mitigation technologies to market

HOW?

**Some** product discovery and screening Feasibility assessments Product scale-up and delivery Facilitate adoption

**WORK AREAS** (CN30)

**ACTIVITIES** 

**EMISSIONS AVOIDANCE (ON FARM / ANIMAL)** 

building on work conducted as part of NLMP (2012-2015) and RELRP (2009 - 2012)

## **SUPPLEMENTS AND ADDITIVES**

- · Technologies to avoid methane emissions from livestock (anti-methanogenic compounds, natural marine and terrestrial bioactives)
- Supplement delivery system design feedlot and grazing

## **OUTPUTS**

### **FORAGES**

- Assessing new pastures, shrubs and legumes that offer co-benefits of livestock productivity and lower enteric methane emissions
- · Facilitate adoption of known methanereducing legumes and forages

### **LOW METHANE LIVESTOCK**

- Improvement in animal genetics and husbandry practices to increase production efficiency and lower enteric methane emissions
- Manipulating rumen microbiome and fermentation

## **INTEGRATED MANAGEMENT SYSTEMS**

- Licence to operate (CSR, regulatory, markets)
- Technical and economic analysis of farming systems to determine appropriate combinations of emissions avoidance (and carbon storage) technologies and practices
- Incorporating emissions avoidance (and carbon storage) practices into existing extension and adoption platforms;
- · Developing resources and tools to support adoption and proper execution of emissions avoidance (and carbon storage practices)
- Developing new **scientific methodologies** to generate carbon credits
- · Aligning outputs with generation of GHG accounting frameworks (so that we deliver environmental and productivity benefit)

## **DEVELOPMENT REQUIREMENTS**

- · Timelines and budgets
- · Outcomes from previous research
- · Collaborators and partners
- Economic benefits (increase productivity gain, improved drought resilience etc)
- · Environmental benefits (reduce methane emissions, improved soil health etc)
- Social benefits (nutritious, red emissions diet)
- · Animal health and welfare benefits (improved diet and nutrition)

- · Demonstrate commercial viability and path to market
- · All value chain partners
- Collaborators and partners
- · Timelines and budgets
- Existing extension and adoption platforms
- Existing tools and resources (gaps)
- · Demonstration of commercial viability
- Repeatable adoption pathways
- · Scalable manufacturing

**VALUE PROPOSITION** 

**ENABLERS** 

GHG emissions accounting framework, carbon credit methods, certification/accreditation services