

CANZA

Canadian Alliance for Net-Zero Agri-food

Supported by



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In collaboration with



Partners already leading the way

Pre-competitive collaboration to accelerate climate action

Founding Partners



Royal Bank



CENTRE FOR
Canada's Future

Our Vision

A circular, NetZero agrifood system for Canada.

Our Mission

Catalyze and accelerate the mitigation of 150 Mt of emissions from Canada's agrifood sector by 2050.



There is an urgent need to develop a collaborative approach to climate-smart agriculture

The Challenge

The number of carbon standards, guidance and systems has rapidly increased over the last year.

This is detrimental to farmer implementation and actually valuing carbon.

CANZA works collaboratively across the agri-food system to reduce the systemic burden and costs to scaling climate smart agriculture to enable acceleration towards a net zero Canada.

CANZA harnesses the power of Canada's agrifood sector, pre-competitively

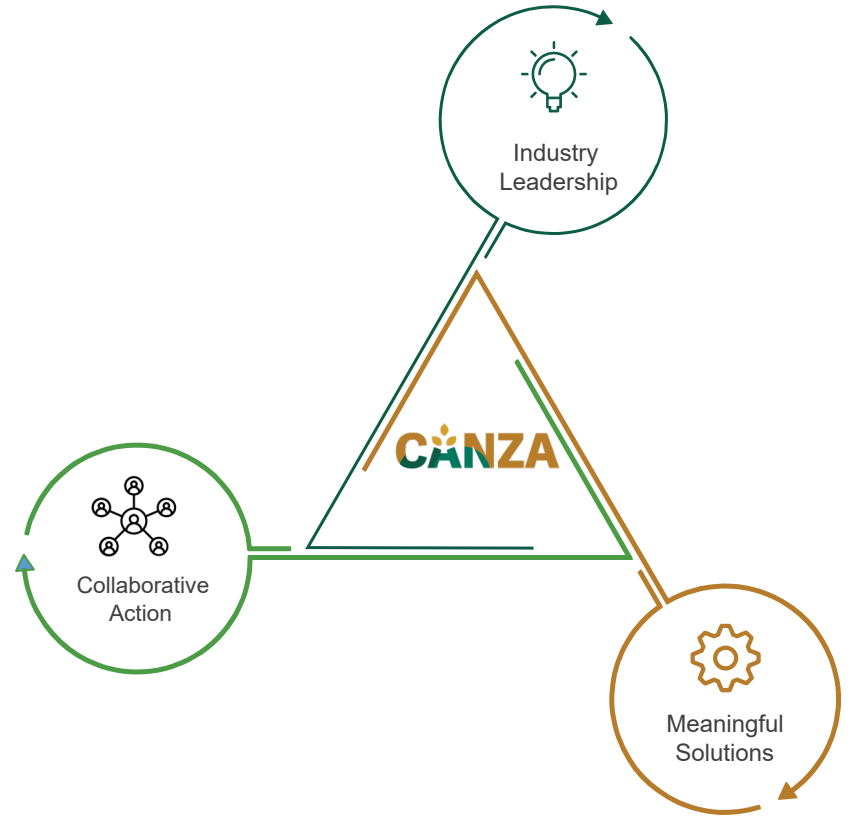
CANZA strives to always be **complementary** to existing company, industry and government solutions.

Developing collaborative **inclusive approach** that increases synergies, demonstrates climate action, and accelerates progress.



Reporting and measuring climate-smart farming requires an integrated approach across all commodities, regions and schemes.

CANZA enables this.





How we get there

Canadian Alliance for NetZero Agri-Food (CANZA) brings together farmers, ranchers and supporting actors with varying expertise from across the agfood system: industry, technology providers, researchers and academics, financial institutions, governments, and commercial and retail companies.

Working together to **reduce emissions** and **support farmers** to monetize environmental outcomes by collaborating on

- Bold policies,
- Innovative technologies, and the
- Enabling market conditions to create a circular, net zero supply chain.

Telling the story of farmer leadership





Collaboration and Innovation Platform
Advanced research, pilots, large scale demonstration projects, and scalable technology innovations

+

Partnership with Farmers Industry, Associations, and NGOs

+

Two Initial Game-Changing Initiatives

Climate-Smart
Farming Initiative

National Biodigester
Network Initiative

Current Decarbonization Initiatives

Climate-Smart Farming Initiative

Embracing new climate-smart agricultural technologies, policies and practices has the potential to improve agricultural productivity, resilience and returns in ways that can benefit farmers and other food system stakeholders across Canada's agri-food industry.



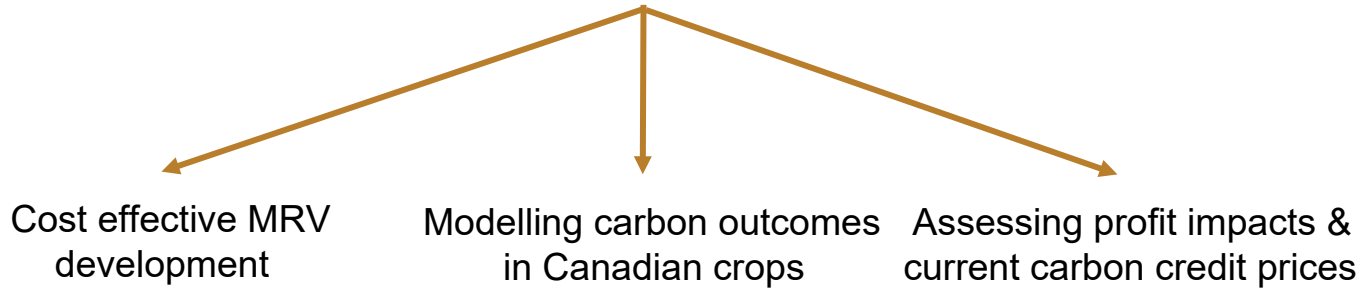
National Biodigester Initiative

Scaling networks of agricultural anaerobic digesters can significantly reduce emissions in Canada's food system by creating renewable energy, either for selling to the grid or for on-farm use. Additionally, digesters produce nutrient-rich digestate that can enhance crop yields when applied to fields.

1. Climate Smart Farming Hypothesis & Business Case

developed in Summer 2023

Evaluating the key hypotheses



Next Steps

1. Validating research
2. Engagement with actual economic and environmental data collected through the demonstration projects
3. Expanding scope of MRV and testing the incentive model



Saskatchewan Pilot Project Update

This work provides the underpinning for the next phase of demonstration projects.

Key Deliverables (April 2024):

- Predictive model from imagery and spectra data
- Baseline soil carbon map
- Potential cost savings, based on pilot project data
- Blueprint for future protocol



2. National Biodigester Initiative

Positive impact of biodigesters in agrifood systems



Slashes methane emissions

Reduces methane emissions; crucial to achieve 2030 & 2050 net zero targets



Boosts farm income

Provide new rural revenue streams, job creation, and economic growth



Stabilizes Net Zero energy

RNG is critical in winter to offset intermittent renewables



Impacts 2030 targets

Proven technology that can be scaled and cut emissions by 2030



Addresses water quality risk

Positively impact water quality and pathogen risks



Supports circular economies

Produce digestate, a high quality fertilizer to recirculate on farms

CANZA's Biodigester Strategy

CANZA is well positioned to drive and support industry growth across four themes:

1. **Reinforce government advocacy efforts** focused on senior federal leaders for key biogas incentives in Spring budget
1. **Build a farmer support centre** ramping up to build farmer capacity while driving industrywide commercial excellence
1. **Create a methane credit marketplace** initially monitoring evolving CFR market to prioritize if needed
1. **Create and manage technology optimization & demonstration fund** after tech landscape



The logo for CANZA features the word "CANZA" in a bold, white, sans-serif font. The letter "A" is stylized with three leaf-like shapes extending from its top and sides. The background is a close-up, blurred image of golden-brown grasses.

CANZA

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