

RESEARCH PROJECT – REPORT SUMMARY

PROJECT NAME

REPORT DATE

Blockchain for Supply Chain Integration and Authentication

March, 2023

EXECUTIVE SUMMARY

This project involves the complete mapping of the farm-to-fork movement of beef products through the Bakerview Farm to retail markets around BC (AKA the “Beef Supply Chain”). This project is being conducted in association with KPMG, which is working with Bakerview to pilot its blockchain encrypted information management system as a novel traceability platform for food producers. Feed intake and weight gain of individual animals from calf to finishing will be measured using non-invasive monitoring technology by Vytelle and Foerster-Technik. The aim is to bolster consumer confidence by providing authenticated health and environmental benefits of locally produced beef products.

KEY FINDINGS

The project has six key deliverables:

- (1) Development of a blockchain encrypted traceability platform by tracking the integral points on the Beef Supply Chain.
- (2) Improving the CalfBarn system to track automated feeding events to individual animals using Foerster-Technik equipment (milk robot and neckbands).
- (3) Install and pilot Vytelle Growsafe feed bunks and in-pen weighing systems to track animal performance.
- (4) Utilize the technology from Deliverables (2) and (3) to perform research activities into breed and diet specific traits that are of interest to the BC cattle industry.
- (5) Integrate new practices into Bakerview Farm as identified by research in Deliverable (4).
- (6) Increase the employment opportunities for highly-skilled persons as animal/farm managers and data analysts using experience generated by the project.

COLLABORATORS

Principal Investigator: Dr. Spencer Serin (Spoitz Inc.)

Co-Investigators: Bill Vanderkooi (Nutriva Group), Dr. Fraser Pick (Spoitz Inc.), KPMG, Lara Hirowatari (Nutriva Group), Dr. John Church (TRU)

