

**ALMA**  
Alberta Livestock  
and Meat Agency Ltd.



2013-2014  
**YEAR-IN-  
-REVIEW**

IDEAS / INFORMATION / INVESTMENT

“THE MORE YOU KNOW,  
THE BETTER YOU EAT.”™





# MESSAGE FROM THE CHAIR & CEO



**DR. DAVID CHALACK**  
ALMA BOARD CHAIR

A handwritten signature in black ink, appearing to read 'D. Chalack'.

It is an exciting time of year for ALMA. The fiscal year has ended and the work of closing the book on 2013-14 is almost complete. It's now our opportunity to reflect on, and share with others, the work and accomplishments we've achieved. We are excited to tell our story.

Last year held challenges for ALMA with a reduced budget and staffing levels. ALMA rose to the challenge and delivered on 206 industry initiatives, committing \$30 million, generating more than \$146 million in value for industry. Industry, on the other hand, had some positive changes. We witnessed a stronger pork industry than in years past, a stable beef herd and solid numbers for other sectors. Our agriculture industry often demonstrates its unpredictable nature, making it compelling for so many.

ALMA grants helped enhance the science of healthy animals and healthy foods; improve production efficiencies; and mitigate the impact of regulatory burden. These undertakings also advanced industry management practices and leadership development; enhanced industry engagement; improved productivity, efficiency and competitiveness; and led to market growth.

As well, many of these projects improved consumer awareness of our quality Alberta products, sustainability processes, animal health and welfare focus, and food safety measures. Industry must keep consumer wants at the forefront of its decision-making. It is to this end that ALMA funded projects in key areas as are highlighted in our 2013-14 Year-In-Review.

As we step forward into fiscal 2014-15, we extend our sincere appreciation to ALMA's staff and board directors for their commitment to engage and advance Alberta's meat and livestock industry. To our industry partners, thank you for working with us on innovative projects that will help make industry more sustainable and profitable. Thanks to our advisory and technical committees who help guide our resources, and of course, with the support and encouragement of the Minister of Agriculture and Rural Development and Ministry officials, ALMA continues on its path of collaboratively building a more profitable, sustainable and respected meat and livestock industry.



**GORDON COVE**  
ALMA PRESIDENT & CEO

A handwritten signature in black ink, appearing to read 'G. Cove'.

# OUR GUIDE FOR THE 2013-14 JOURNEY

ALMA'S PURPOSE IS TO:

**“BE A CATALYST IN THE DEVELOPMENT OF A PROFITABLE AND INTERNATIONALLY COMPETITIVE ALBERTA LIVESTOCK AND MEAT INDUSTRY.”**

GOAL ONE:

## Increased Market Access

- 1.1 Stimulate strategic thinking on trade-related matters, help identify common goals and share market access policy positions with key policy makers who have a stake in Canada's trade agenda.
- 1.2 Promote trade policy and reform that leverages beneficial and incremental market access strategies building on validated animal health status, universal livestock and premise identification, Canada's animal disease surveillance and control capabilities.

GOAL TWO:

## Enhanced Industry Engagement

- 2.1 Encourage industry to develop viable strategic plans.
- 2.2 Engage industry and effectively communicate to create open dialogue on key issues and opportunities that have the capacity to positively impact profitability.
- 2.3 Execute communication strategies and tactics that build a more informed and unified industry.

GOAL THREE:

## Increased Demand for Alberta/Canada Livestock and Meat Products

- 3.1 Encourage and assist Alberta-based companies to build marketing strategies based on competitive advantages.
- 3.2 Broaden industry experience base through interaction with customers and potential customers of Alberta livestock and meat products.
- 3.3 Strengthen the supply chain's ability to understand and satisfy consumer opportunities.
- 3.4 Partner with industry in support of consumer initiatives which recognize Alberta/Canadian products as the products of choice and support the education of the public relative to Alberta/Canada meat nutrition, safety and product quality.

GOAL FOUR:

## Enhanced Competitiveness and Profitability

- 4.1 Invest in new technologies and practices for improvements to efficiency and productivity throughout the production and processing sector, while improving quality and sustainability to deliver the strategy.
- 4.2 Prioritize and invest in research projects that have the ability to transform industry with sustainable advantage.
- 4.3 Collaborate to attain optimal health for people, animals and the environment through implementation of a "One Health" strategy.
- 4.4 Encourage the adoption of new business models, risk management tools and price discovery mechanisms.
- 4.5 Work with the livestock and meat industry to influence policies that strengthen the industry's competitive advantage.
- 4.6 Support sustainability initiatives and the industry's social license to operate.

# HIGHLIGHTS



# GOAL ONE: INCREASED MARKET ACCESS:

Getting effective access to consumers in our target markets is paramount to the success of Alberta's livestock and meat industry. ALMA stimulates strategic thinking on trade-related matters and supports industry participation in international trade missions, forums for dialogue on key trade agreement negotiations and the development of industry international trade strategies. ALMA connects with key policy decision makers through its membership in the GIRA Club, and participation at the Beef Value Chain Roundtable, Pork Value Chain Roundtable, Canadian Roundtable for Sustainable Beef and Sustainability Consortium. Several initiatives leveraged market access strategies and built on industry capabilities including animal care assessment programs, production introduction programs to accelerate access, refinement of reference materials for mapping pork lymph nodes, programs to attract international buyers and research into cold chain networks.

## ALMA FEATURED INITIATIVES:

### A PRESENCE AT ANUGA, THE WORLD'S LARGEST FOOD AND BEVERAGE FAIR



Anuga is a vital venue that connects the supply and demand sectors. The German-based fair is primarily focused on developing industry knowledge and insights that are crucial to profitability in the livestock and meat industry. ALMA assisted eight companies from the beef and bison industry to participate and exhibit their products at the 2013 Anuga fair in Cologne, Germany. These companies gained crucial insight into the EU market on aspects such as pricing, cuts and customer needs.

### THE CULINARY DELIGHTS OF ALBERTA'S MEAT PRODUCTS

The Chinese Master Chefs Program, created through a partnership between ALMA and Vancouver-based Cross Cultural Marketing Inc., educates Canadians about the benefits of using Alberta beef and pork in high-quality Chinese cuisine. The resulting culinary creations are video-taped and aired on Chinese language community television stations, with resources available in English and Cantonese YouTube videos and the Chinese Master Chefs website.



## GOAL TWO: ENHANCING INDUSTRY ENGAGEMENT:

There were 43 industry events with 7,575 attendees educated on new trends, innovation, new business models, livestock welfare and the environment. 2013 saw the development of industry-led collaboration on strategic beef priorities stimulated through the work of the Straw Man initiative. ALMA endorses the recommendations stemming from their report. Strategic planning initiatives were supported in the lamb sector, on livestock welfare and in the dairy industry. ALMA hosted two events (FutureFare 2013 and Alan Savory Special Speaker Event) to further share understandings of new approaches and knowledge.

### ALMA FEATURED INITIATIVES:

#### ANNUAL FEATURE EVENT RECOGNIZES SUCCESSSES AND ADDRESSES INDUSTRY CHANGE

FutureFare, ALMA's annual celebration, features Alberta's agricultural leaders who partner with ALMA to help navigate our meat and livestock industry forward. On June 17 and 18, 2013, the event theme, - "Safe. Sustainable. Successful." - focused on improvements to best practices, technology and research, recent changes in consumer expectations and market access. Keynotes Deane Collinson, CEO of Calgary Co-operative Association, and Frank O'Dea, The Second Cup founder, shared thought-provoking messages on the shift in consumer behaviour and trends, and "Blue Oceans" business strategies that grow demand. FutureFare 2013 was an engaging event for more than 225 participants from industry, government and academia.



#### 4-H BUILDS LEADERS IN AGRICULTURE



4-H is a premier program for grooming the next generation of agricultural leaders. In partnership with ALMA, 4-H Alberta launched the 4-H Alberta Beef Resource Development project to create new resources and learning tools for industry youth. The project instills beef industry youth with the business tools and entrepreneurial mindset needed to take advantage of emerging opportunities in agriculture. Increased knowledge and understanding leads to increased support of the industry. This program engages and educates young leaders who enter the industry better prepared to turn the challenges facing the beef industry into opportunities for success.

# GOAL THREE: INCREASED DEMAND FOR ALBERTA/ CANADA LIVESTOCK AND MEAT PRODUCTS:

Eighteen initiatives enabled investment into new markets, new customers and increased profitability. 48 new products were launched and 17 domestic and 8 international markets were entered. 524 individuals were exposed to enhanced leadership through such programs as Cattlemen's Young Leaders, Feeders Association Young Leaders, and governance training at the Canada Beef Breeds Council (CBBC). Awareness of the importance of meat and dairy as part of a healthy diet was built through the education of 1,200 healthcare professionals and fitness leaders through initiatives like Alberta Milk Fitness, the nutrition file with Canadian Nutrition Society, and nutrition educational programming. Consumer awareness was also enhanced through initiatives like Taste Alberta, exhibits at the Calgary Stampede and FarmFair International and the Olds College Gala reaching an estimated 660,000 Canadians. In addition, 76 business adopted best practices, including organizations like Organic Alberta Food Processors Logistics Research Council and the Bison Producers of Alberta.

## ALMA FEATURED INITIATIVES:

### PAVING THE WAY FOR "NEW" AT OLDS COLLEGE AND SAIT



Olds College and the Southern Alberta Institute of Technology (SAIT) offer industry-relevant courses to the meat industry. Funding from ALMA allowed for equipment upgrades that give students a competitive edge and enhance value-added processing. At Olds College's Meat Training Centre, the funding helped purchase a modern dry chamber and a single cage vertical flow smokehouse with refrigeration. At SAIT, students taking the newly introduced charcuterie course benefit from the purchase of a dry airing room and computerized smoke houses.

### A FOCUS ON LOCAL



Northlands' Alberta Flavour initiative helps local food companies get the needed experience to work with large volume buyers. Through the initiative, Northlands focuses on sourcing more of its ingredients and food from these companies. One of the larger goals of the program is to create more value-add processing in Alberta. By fostering small- and medium-sized processing with a local market focus, Northlands hopes to strengthen and grow the companies faster.



## GOAL FOUR: ENHANCED COMPETITIVENESS AND PROFITABILITY:

ALMA committed approximately \$26.3 million toward 130 initiatives to further efficiency and productivity, research, the One Health strategy, adoption of new business models, and sustainable development. This resulted in the training of 435 highly qualified personnel, 498 publications and presentations, 314 industry communications and 13 patents. In partnership with Growing Forward 2, a federal-provincial-territorial initiative, the Agri-Processing Automation and Efficiency program supported 59 products resulting in an estimated 10.4 million kg increased volume of meat production, representing an estimated \$57 million revenue increase to industry.

### ALMA FEATURED INITIATIVES:

#### AN ALBERTA COMPANY WITH INTERNATIONAL AMBITIONS

Established in 2004, Siwin Foods, a subsidiary of Yantai Xiwang Foods Company of China, operated out of leased space at the Leduc Agrivalue Processing Business Incubator. In partnership with ALMA, Siwin is building a new \$13-million processing plant in Edmonton. The facility is designed to help Siwin merge all of its production under one roof and provide for future expansion. More importantly, the facility will incorporate industry-leading specifications that meet international export requirements. Siwin's long-term vision is to incorporate the Alberta brand of quality and safety into ready-to-eat Asian cuisine that it will sell in China and other Asian and North America markets.



#### MEASURING WHAT MATTERS

Canada's budding lamb industry faces unique challenges. In particular, there is a lack of consistency to carcasses and quality. Through a partnership with the Alberta Lamb Producers, Sungold Specialty Meats, Alberta Agriculture & Rural Development and ALMA, Dr. Manuel Juárez is leading a team to create carcass and quality grading benchmarks for the lamb industry. Using non-destructive technology, the research team created a framework for assigning high-grade meat. These parameters will be shared with producers, allowing them to use the data in culling and selecting animals. The end result is a consistent, high-quality cut of lamb for the consumer.





# ALMA-FUNDED PROJECTS 2013-14



## COMMITMENT BY GOAL

	ALMA Commitment
Market Access	\$348,949
Industry Engagement	\$954,513
Demand	\$2,728,541
Competitiveness & Profitability	\$26,282,220
<b>TOTAL</b>	<b>\$30,314,223</b>

## COMMITMENT BY PROGRAM

	ALMA Commitment
Research & Development	\$9,531,444
Strategic Initiatives	\$6,052,638
Diversified Livestock Funds of Alberta/Alberta Livestock Industry Development Funds	\$829,033
Industry & Market Development	\$3,665,230
Agri-Processing Automation and Efficiency	\$9,375,112
Agri-Processing Product and Market Development	\$860,767
<b>TOTAL</b>	<b>\$30,314,223</b>



# RESEARCH & DEVELOPMENT



## RESEARCH & DEVELOPMENT

Title	Description	Lead	Organization	Commitment
Improving the Diagnostic Significance of Testing by Determining the Prevalence of Specific Agents in Common Disease Syndromes and in Healthy Animals	Determining the detection rate of specific bacteria and viruses involved in intestinal and respiratory diseases causing illness and death in cattle and pigs. Provide guidance to veterinary practitioners and diagnostic laboratories regarding sample collection, test selection and the overall significance of detection of these pathogens in these disease syndromes. Improve the diagnostic significance of testing.	Marilyn Jonas	Prairie Diagnostic Services Inc.	\$179,674
Experimental Transmission of C-, H- and L- type BSE to Susceptible Sheep	Determining if sheep with the genotype ARQ/ARQ are susceptible to atypical BSE by either oral or intracranial inoculation and characterize the disease in affected animals by defining the relative susceptibility of ARQ/ARQ sheep. Provide the needed information on incubation period and disease progression if the inoculation is successful. Generate a bank of samples from sheep inoculated with BSE and provide information on pathogenesis that differentiates BSE from Scrapie infection in sheep.	Dr. Stefanie Czub	Canadian Food Inspection Agency	\$120,000
Effect of High Pressure Processing on Quality, Sensory Attributes and Microbial Stability of Selected Fresh Meat Products During Refrigerated Storage	Establishing new processing methodologies for fresh meat products processed using high pressure processing technology and provide useful technical information to improve fresh meat products quality attributes and establish the safety of HPP treated fresh meat products with extended shelf life. Develop product-oriented guidelines for commercial production of high pressure processed, fresh marinated beef steaks, pork chops and fresh sausage with an extended shelf life. The information generated from this project will be useful for novel product approval from Health Canada.	Dr. Haihong Wang	Alberta Agriculture and Rural Development	\$162,500
Incidence, Pathogenesis and Control Measures of Enterococcus Infections in Chickens Embryos and Neonatal Broiler Chickens in Alberta	Minimizing yolk sac infections and improve broiler chick quality and broiler performance through the pathogenesis and characterization of enterococcus species in chicken embryos and neonatal broiler chickens. Control of the emergence of enterococcal species using oligodeoxynucleotides contacting CpG motifs.	Dr. Susantha Gomis	University of Saskatchewan	\$161,000
Biopolymer Nanocomposites From Poultry By-products for Packaging Applications	Developing simple, efficient and environmentally friendly methods of extraction of lipid and protein biopolymers from poultry by-products and effectively utilize these biopolymers for the preparation of bionanocomposites. Investigating their potential as alternative to traditional food and non-food packaging materials to reduce our dependency on fossil fuels and divert waste from landfills.	Dr. Aman Ullah	University of Alberta	\$150,000

Title	Description	Lead	Organization	Commitment
Development of the Alberta Phosphorus Management Tool to Mitigate Phosphorus Loss from Agricultural Watersheds	Developing a risk-based Alberta Phosphorus Management Tool (APMT) for farm-scale application that identifies areas at high risk for Phosphorus loss, and direct practical and effective management actions; demonstrate industry's proactive leadership and social responsibility in addressing the P issue in collaboration with government; integrate previous watershed knowledge from Alberta research on the risk of P loss and in-field assessments of BMPs; and provide guidance under the province's Cumulative Effects Management System and Land Use Framework.	Dr. Barry Olson	Alberta Agriculture and Rural Development	\$240,000
Validation of the Efficacy of a Vaccine Against Multiple Periparturient Diseases of Transition Dairy Cows	Studying how a new oral vaccine improves herd health and performance by targeting three main periparturient diseases mostly affect culling of dairy cows: infertility, mastitis and lameness. The study will validate the efficacy of a newly developed oral vaccine; evaluate metabolic and immune status of transition dairy cows vaccinated with the new vaccine, the health and productivity of dairy cows treated with the vaccine; evaluate whether the oral vaccine combined with the subcutaneous injection would confer better protection compared with the oral vaccination alone, and the health of offspring from cows vaccinated with the new vaccine.	Dr. Burim Ametaj	University of Alberta	\$381,000
Revolutionizing Whole Meat Convenience Cooking Through a Meat Pack Cooker System	Determining if a new cooking technology can cook beef and pork portions to 71 °C faster than a typical clam-shell (top and bottom grill platens) cooking grill; determine the best platen needle type for the meat cooker system to tenderize beef and pork while it cooks; and compare cooking times and cooking losses between pork and beef cooked from frozen (< -10 °C), tempered (about -2 °C) or thawed (about 4 °C) states.	Dr. Heather Bruce	University of Alberta	\$47,394
Effect of Internal Sodium Concentration Gradients on the Flavour and Functional Characteristics of Reduced Sodium Meat Products	Using 'taste contrast' to create high quality, reduced sodium meat products. Increase the perceived saltiness of reduced sodium meat products by creating internal sodium concentration gradients via encapsulation. Providing a novel method of sodium delivery that will improve the sensory properties of reduced sodium products while maintaining desired functionality and microbial stability. This strategy is a valuable, effective and economical approach to producing reduced sodium Alberta meat products with improved consumer acceptability.	Dr. Nicole Gaudette	Alberta Agriculture and Rural Development	\$135,000

## RESEARCH & DEVELOPMENT CONTINUED

Title	Description	Lead	Organization	Commitment
Pilot Preparation and Application of Formaldehyde-Free Wood Adhesive from Alberta Renewable Materials	Reducing the cost of adhesive preparation using whole spent fowl carcass and other co-products from the livestock industry; improving the functionality and performance by developing biomimetic adhesives and formulation especially adding nanofillers; furthering mature the technology by demonstrating its scalability and application of making wood composites using protein-based resins developed in the project; and identifying competitive market applications and engaging industry partners to develop strategies for commercialization.	Dr. Jianping Wu	University of Alberta	\$200,000
Use of a Reducing Agent to Suppress Enteric Methane in Beef Cattle: Proof of Concept	Developing a strategy for beef producers to economically reduce the carbon footprint of beef production. Demonstrating 'proof of concept' that feeding a slow release product under development could be a cost effective means of reducing enteric methane by 25 per cent, without decreasing animal performance and reducing production costs.	Dr. Karen Koenig	Agriculture and Agri-Food Canada	\$77,484
Improving the Energy Value of High Protein Feedstuffs	Identifying the procedures for achieving efficient deamination of canola meal and wheat DDGS, with particular attention paid to efficacy, safety and regulatory compliance. Establishing the feeding value of delaminated canola meal and DDGS for ruminants using an in-vitro fermentation assay and for poultry using a broiler bioassay.	Dr. Gregory Penner	University of Saskatchewan	\$60,000
Novel Diagnostic Platform for Immediate Detection of Bovine Infectious Diseases	Applying a new diagnostic technology for the production of pen-side tests to three important production limiting diseases in the dairy industry. Identify and incorporate optimal antigens for Leukosis, Leptospirosis and Neosporosis in antibody-induced enzymatic bio-switch tests and validate serum/milk bio-switch tests on field samples, resulting in a novel platform of easy-to-use diagnostics for several production limiting diseases, with either a viral, bacterial and protozoal causative agent.	Dr. Jeroen De Buck	University of Calgary	\$150,000
Linking Pollinator Diversity and Abundance to Rangeland Health and Forage Production in Alberta	Surveying insect pollinators across Alberta to identify these beneficial insects and suggesting management practices that support their populations as a first step to establishing management practices that promote pollinators and enhance production in rangelands.	Dr. Cameron Carlyle	University of Alberta	\$99,456

Title	Description	Lead	Organization	Commitment
Towards a CNA-based Screening Platform for Chronic Animal Diseases	Establishing the basic parameters (methodology, selectivity and sensitivity) for a future blood-based live-animal BSE test. Provide insights for developing testing systems for other zoonotic diseases, such as Johne's Disease and Mastitis, which are targets for CNA Diagnostics Inc., the company co-funding this proposal.	Dr. Christoph Sensen	University of Calgary	\$150,000
Soil Quality as a Fundamental Contributor to Ecosystem Health: Developing a Quantitative, Rapid Method for Accurate Diagnosis	Establishing a new method for measuring soil quality using a tri-dimensional high resolution laser scanner. Conducting field and laboratory tests across Alberta to identify management choices that improve soil quality in farming systems including cropland, forage, rangeland and tame pasture systems. Contributing to increased awareness regarding soil quality amongst the general public and farming communities.	Dr. Guillermo Hernandez-Ramirez	University of Alberta	\$105,200
Evaluation of the Host Range of Shiga-toxin Prophages for Improved Risk Assessment of Enterohaemorrhagic Escherichia coli on Beef	Evaluating the role of phage ecology in the persistence of STEC in cattle and beef. Providing improved tools for the efficient management of health risks and cost-benefit analysis of policies and practices.	Dr. Michael Gänzle	University of Alberta	\$74,000
Quantifying the Cost of Brachyspira-associated Colitis and Control Measures in a Commercial Production System	Quantifying the cost of swine dysentery (SD) in a modern commercial production system and provide cost effective strategies to control SD prior to a farm eliminating the disease.	Dr. Malachy Young	Gowans Feed Consulting	\$35,953
Enhancing the Environmental and Economic Health of Egg and Organic Crop Production in Alberta Through Improved Nutrient Distribution	Optimizing the characteristics and processing of a pelleted layer manure product, demonstrate the value of the product, and examine the full cost of production, transportation and marketing.	Jenna Griffin	Alberta Egg Producers Board	\$245,000
Does Reducing Enteric Methane Production Using a Novel Feed Additive Improve the Performance of Feedlot Cattle?	Exploring the potential of a new feed additive to reduce methane emissions from feedlot cattle, while improving animal performance. Determining the effects of feeding the new additive to backgrounding and finishing cattle on growth rate, feed intake, feed conversion efficiency and methane production. Determining if there are residues or metabolites in tissues, to ensure the meat poses no risk for human consumption.	Dr. Karen Beauchemin	Agriculture and Agri-Food Canada	\$150,000

## RESEARCH & DEVELOPMENT CONTINUED

Title	Description	Lead	Organization	Commitment
Extrusion Processing to Enhance Feed Value of Canola Co-products for Pigs and Animal Co-products for Pet Food Application	The University of Alberta, in partnership with Champion Petfoods, Elmira Pet Products, Western Economic Diversification, Alberta Livestock Meat Agency, and others, is launching an Animal Nutrition and Ingredient Development Program. Explore the opportunities that extrusion processing offers to add value along the entire plant-animal-food value chain.	Dr. Rude Zijlstra	University of Alberta	\$589,000
Use of Nitrification Inhibitors to Reduce Nitrous Oxide Emissions From Crop Fields Receiving Liquid Manure Injection in the Fall Versus Spring	Identifying and developing best management practices for manure injection into soils with specific focus on efficiency of nitrification inhibitors, timing of manure additions, associated quantities of nitrous oxide losses and plant nutrient utilization.	Dr. Guillermo Hernandez-Ramirez	University of Alberta	\$150,000
Using Decomposition Rates and Microbial Activity to Understand Grazing Impacts on Nutrient Cycling and Carbon Sequestration in Alberta Rangelands	Combining novel data generated by this study with data from the ALMA funded 'Carbon Benchmarking in Rangelands' project to develop a mechanistic understanding of how cattle grazing specifically alters C cycling and stores in northern temperate grasslands. Identifying specific grazing management practices that increase C storage in grasslands. Promoting innovative policy and market instruments that reward cow/calf producers for C storage.	Dr. Edward Bork	University of Alberta	\$110,750
Development and Utilization of Genomic Tools to Exploit Genetic Diversity and Heterosis in Canadian Beef Cattle Populations	Developing breeding and management practices that will maintain optimum genetic diversity within the Canadian beef cattle population and maximise the benefit of using genomics and heterosis to improve production efficiency and profitability. Using genomic tools to assess genetic diversity, and identify and investigate at a genomic level the non-additive genetic effects that contribute to heterosis in beef cattle in Canada. Improving genetic merit of Canadian beef populations and increase profits for Canadian beef producers by providing the beef industry with enhanced genomic tools for genetic evaluation, develop optimal mate selection, and prediction of hybrid performance.	Dr. Graham Plastow	University of Alberta	\$196,000
Hypolipidemic Effect of Dietary Trans-11 Vaccenic Acid Supplementation in Naive Hyperlipidemic Subjects	Assessing the effect of vaccenic acid on blood fat, cholesterol and other heart disease risk factors in men.	Dr. Spencer Proctor	University of Alberta	\$265,684



Title	Description	Lead	Organization	Commitment
Potential Impacts of Pre-natal Nutrition and Selection for Residual Feed Intake (RFI) on Bull Reproductive Development and Fertility	Investigate the effects of pre-natal nutrition during early to mid-gestation, and selection for feed efficiency, on subsequent bull calf sexual development and reproductive potential in the Western Canadian beef cattle production system. Determining whether cattle with divergent potential for feed efficiency can differentially mitigate consequences of nutrient restriction during pregnancy upon post-natal growth and reproductive development and function of their male progeny.	Dr. Carolyn Fitzsimmons	Agriculture & Agri-Food Canada	\$183,104
Use of Pre-clinical Swine Models (Landrace and Ossabaw Strains) to Validate the Cardio-protective Effects of Ruminant Trans Fats During Diabetes	Investigating the effect of dairy-derived trans fat (vaccenic acid or VA) specifically on diabetes using the rat model and using large animal models (swine). Delineating the role of dairy products in the prevention and management of type 2 diabetes. Add to the growing body of knowledge that dairy products are healthful. Providing the scientific platform required by Health Canada to expedite the translation of research findings on vaccenic acid into actionable policies on TFA, new product technologies as well as dietary interventions for humans.	Dr. Spencer Proctor	University of Alberta	\$279,250
A Benchmarking Survey of Animal Care Practices in Cow-calf Operations in Western Canada	Assessing current animal care and health management practices used on cow-calf operations in Western Canada and their association with health and welfare. Determining the perceptions of, and rationale for use, given animal care strategies. Improve animal care by optimizing on-farm management practices.	Dr. Claire Windeyer	University of Calgary	\$132,700
Methane Emissions From Beef Cattle Bred for Low Residual Feed Intake	Co-funded project with Climate Change and Emissions Management Corporation to collect data on Residual Feed Intake (RFI) and methane emissions in Beef Cattle to provide a validated protocol for carbon offsets in low RFI cattle.	Dr. Erasmus Okine	University of Alberta	\$750,000
Gelatin: New Ideas to Obtain Added Value for an Old Molecule	Developing innovative products for food and pharmaceutical applications to maximize the use of gelatin.	Dr. Mirko Betti	University of Alberta	\$310,500

## RESEARCH & DEVELOPMENT CONTINUED

Title	Description	Lead	Organization	Commitment
Assessing Water Quality, Microbial Risks and Waterborne Pathogens in Rural Alberta Using a One Health Framework	Identifying and understanding microbial risks in rural drinking water wells, including pathogen detection in water samples, source tracking fecal contamination in E. coli positive wells, understanding producers' perceptions of risk, and risk factor analysis. Developing water policy for Albertans, engaging various stakeholders. Inform decision makers on the implications for human, animal and environmental health.	Dr. Sylvia Checkley	University of Calgary	\$740,000
Changes in Antimicrobial Sensitivity and Virulence Factors of <i>Histophilus somni</i> From Feedlot Cattle in Alberta 1980-2013	Generating resistance prevalence data for making effective use of antibiotics in feedlot facilities and mitigate risk of developing antibiotic resistance. Examining <i>H. somni</i> phenotypes and genotypes from cases of Bovine Respiratory Disease in Alberta feedlot cattle collected 30 years apart, identifying differences in antibiotic resistance and virulence genes selected for by changes in antibiotic usage and management and which cause changes in clinical disease and treatment failure.	Dr. Karen Liljebjelke	University of Calgary	\$57,000
Assessment of the Economic, Environmental and Social Sustainability of the Canadian Beef Industry	Helping the beef industry recognize and communicate areas of proficiency, set targets and outline beneficial management practices for areas of improvement and help shape future research and policy; overcome its current strategic challenges and seize short-term and long-term opportunities by providing a comprehensive baseline assessment of the environmental and socio-economic impact of beef production in Canada; identifying key strengths and weaknesses that should be the focus of future research, communication, policy, beneficial management practices (BMPs); developing modeling and methodology tools for future benchmarking of sustainability indicators; and establishing key performance indicators, targets and recommended BMPs to address the areas of concern or opportunity.	Fawn Jackson	Canadian Cattlemen's Association	\$250,000
Understanding the Role of Dietary Fatty Acids on Reproductive and Immune Function of Dairy Cows and Calves (continuing project)	Improving the understanding of the effects of dietary oilseeds during late gestational period on postpartum reproductive function, health and immunity. Investigating the role of fatty acids on embryo development. Evaluating the effects of prepartum diets enriched in long chain fatty acids on postpartum reproductive and immune function, uterine health and neonatal immunity. Studying the effects of dietary fatty acids on embryo development in vivo, embryonic and reproductive tissue gene expression, genes regulating conceptus-maternal crosstalk and pregnancy recognition, and fatty acid distribution in reproductive tissues.	Dr. Divakar Ambrose	Agriculture & Rural Development	\$53,213

Title	Description	Lead	Organization	Commitment
Identifying Genomic Predictors for Vaccine Response in Swine	Understanding how pigs develop a protective immune response following vaccination and identifying early gene expression and protein activation patterns in the blood to predict how well an individual animal will respond to a vaccine. Identifying biomarkers for response to vaccination in swine.	Dr. Graham Plastow	University of Alberta	\$399,112
Development of Molecular Diagnostic Tools for the Detection and Management of Fenbendazole Drug Resistance in Parasites of Cattle and Bison	Using modern genomic approaches to detect parasites in cattle and bison that are resistant to the important antiparasitic drug fenbendazole. Developing diagnostic tests to help producers choose the most effective drugs for parasite control. Developing a novel quantitative molecular tests for fenbendazole resistance.	Dr. John Gilleard	University of Calgary	\$264,000
Combining Vaccines with Semen Prior to Artificial Insemination - A New, Industry-friendly Vaccination Route to Promote Robust Mucosal Immunity	Combining a vaccine with semen to capitalize on the normal inflammatory response to generate strong vaccine-specific mucosal immunity. Ensuring the vaccine does not negatively affect fertility.	Dr. Heather Wilson	University of Saskatchewan	\$244,320
Sensitivity of Forage Production in Alberta's Grassland to Changes in Rainfall: Risk Assessment and Management Options	Using an experimental approach to understand the role of grazing systems in maximizing forage production and minimizing loss during drought in Alberta's rangelands. Identifying site characteristics that indicate the most appropriate grazing system for producers to use and locations that may be more susceptible to drought. Developing new tools and indicators of root health that will help producers monitor the health of their rangeland.	Dr. Cameron Carlyle	University of Alberta	\$200,000
Using Masal-delivered Probiotics to Mitigate Bovine Respiratory Pathogens in Place of Antibiotics	Developing and testing the effectiveness of nasal-delivered probiotics to mitigate the Bovine Respiratory Disease (BRD) pathogen <i>M. haemolytica</i> in feedlot cattle. Developing a probiotic to be administered to cattle during processing at feedlot entry.	Dr. Trevor Alexander	Agriculture and Agri-Food Canada	\$200,000
A Novel Enteric Symbiotic Technology (NEST) for Enhancing Enteric, Environmental and Economic Health in Alberta	Developing a robust technology - Novel Enteric Symbiotic Technology (NEST) - to effectively mitigate important zoonotic enteric pathogens in mammalian livestock and validate the technology in vivo. Enhance the competitiveness/sustainability of the Alberta livestock and agri-food industry, and the health and well-being of the public.	Dr. Douglas Inglis	Agriculture and Agri-Food Canada	\$150,000

## RESEARCH & DEVELOPMENT CONTINUED

Title	Description	Lead	Organization	Commitment
Developing a Novel Feed Enzyme Delivery Method to Improve Total Tract Digestion and Performance in Livestock	Developing an enzyme delivery system that will efficiently bind feed enzymes, retain enzyme activity, maintain enzyme stability during storage and feed processing, protect enzymes from degradation throughout transit of the rumen and small intestine, and improve total tract digestion of feed in ruminants.	Dr. Trevor Alexander	Agriculture and Agri-Food Canada	\$190,521
Development of a Highly Sensitive, Rapid, Pen-side Molecular Diagnostic Assay for Detection of Porcine Epidemic Diarrhea Virus	Delivering low-cost, highly-sensitive and specific molecular assays for rapid pen-side/on-farm detection and differentiation of Porcine Epidemic Diarrhea (PED) and transmissible gastroenteritis (TGE). Addressing the urgent need for a rapid highly-sensitive and specific pen-side/on farm diagnostic test for detection of PEDv.	Dr. Aruna Ambagala	University of Calgary	\$107,300
Alternative to Antibiotics: Use of Gaseous Nitric Oxide for the Prevention and Treatment of Bovine Respiratory Disease in Feedlot Cattle	Evaluating the use of gaseous nitric oxide to prevent and treat Bovine Respiratory Disease in feedlot cattle. Providing an innovative non-antibiotic solution to feedlot producers that could significantly reduce the overall use of antibiotics in the beef industry.	Dr. Edouard Timsit	University of Calgary	\$245,000
Plasma Metabolites as Bio-markers for Residual Feed Intake and Carcass Quality Traits in Beef Cattle	Identifying plasma metabolites associated with feed efficiency and carcass quality in beef cattle. Assessing metabolite levels using NMR- based metabolomics techniques.	Dr. Graham Plastow	University of Alberta	\$65,000
Genetics of the Eating Quality of High Connective Tissue Beef	Identifying single nucleotide polymorphisms (SNPs) associated with the formation and post mortem degradation of collagen, if any, and preliminary development of a SNP panel for testing for favorable polymorphisms.	Dr. Heather Bruce	University of Alberta	\$125,329
Optimizing Lighting for Precision Broiler Breeder Feeding	Providing enough light for broiler breeder pullets to access feed from a Precision Broiler Breeder Feeding Station 24 hours a day without triggering early sexual maturation and determine the best light combination (main versus supplemental lights) to maximize and sustain egg production in adults.	Dr. Martin Zuidhof	University of Alberta	\$350,000

Title	Description	Lead	Organization	Commitment
The Development of a Potent Analgesic for Food Producing Horses	Developing an efficacious, easily administered, cost effective product for the control of inflammation and pain registered for use in food producing horses. Collecting the relevant information required by the VDD to conclusively demonstrate the efficacy, safety and economics of the use of an oral suspension formulation of meloxicam. Submitting the studies for registration of Meloxicam oral suspension for food producing horses in Canada.	Robyn Moore	Horse Industry Association	\$88,533
Combined APRI Proposals	Partnering with the Alberta Prion Research Institute to support research directly related to prion diseases (i.e.: Chronic Wasting Disease (CWD), Bovine spongiform encephalopathy (BSE)) geared toward providing solutions for the economic, environmental and social consequences of these diseases.	Ron Clarkson	Alberta Innovates-Bio Solutions	\$530,000
Benchmarking Canadian Lamb Carcass and Meat Quality Through Use of Innovative Platform Technologies	Developing new technologies to benchmark Canadian lamb carcass and meat quality, and determining the most influential parameters to include in an improved grading system for lamb carcasses in Canada by improving methods for estimating lamb quality on-line and lamb classification systems.	Dr. Manuel Juárez	Agriculture and Agri-Food Canada	\$210,500

# STRATEGIC INITIATIVES



## STRATEGIC INITIATIVES

Title	Description	Applicant	Organization	Commitment
National Cattle Feeders' Association International Trade Strategy	"Analyzing / evaluating / comparing two alternate development processes recently used to develop emerging farm-level policy in the area of animal care and biosecurity. For example, the next generation animal care 'Codes of Practice,' and the on-farm biosecurity 'Standards.' This information will assist future policy-makers in considering alternate means of developing a particular policy instrument - for instance, through a stakeholder led venue or from within government - and evaluating the most appropriate process for a given situation.	Bryan Walton	National Cattle Feeders' Association	\$50,000
Development of an Animal Health Emergency Management Plan for Alberta's feedlot sector	Developing an emergency management capability for the feedlot sector of Alberta's beef cattle industry that takes the form of a Feedlot Sector Animal Health Emergency Management Plan. The plan will identify the roles and responsibilities of the feedlot sector in the event of an animal health emergency, and identify initial actions and responsibilities for individual feedlot operators should such an event occur.	Bryan Walton	Alberta Cattle Feeders' Association	\$138,250
Baseline establishment of feedlot cattle respiratory pathogens' antibiotic sensitivity and piloting of a screening management tool for industry implementation	Establishing a baseline of antibiotic sensitivities for feedlot cattle respiratory pathogens across Alberta and pilot a screening management tool for industry implementation to provide an efficacious and cost efficient antibiotic susceptibility surveillance management tool; demonstrate responsible antibiotic usage and improve reporting and communication on the use and effectiveness of antimicrobials in Alberta's cattle industry.	Karin Schmid	Alberta Beef Producers	\$149,900
Enhancing traceability solutions for the Alberta cattle industry using mobile device technology.	Developing practical use case scenarios for LF and UHF reader-equipped mobile devices based on feedback obtained from on-farm visits and consultation with stakeholders such as CCIA; completing a market demand study that estimates the price range and volume that could be achieved; developing hardware prototypes for a mobile device case with RFID reader capabilities; developing prototype software to allow the mobile device to communicate with the RFID reader through Bluetooth and software routines for IOS and Android.	Mark Klassen	Canadian Cattlemen's Association	\$161,012

## STRATEGIC INITIATIVES CONTINUED

Title	Description	Applicant	Organization	Commitment
A comparison of bovine necropsy examinations using conventional versus distance methodologies	Using a complete necropsy examination in a diagnostic laboratory as the "gold standard" and comparing that to a diagnosis made using images taken when an animal cadaver has been dissected by animal attendants at the production site.	Dr. Eugene Janzen	University of Calgary	\$316,800
Beta-adrenergic agonist and Carbadox residues in beef and pork available at retail in Canada	Investigating the incidence of RAC and Carbadox residues in pork and RAC residues in beef at retail in Canada and comparing the maximum residue limits between Canada and the U.S.	Dr. Heather Bruce	University of Alberta	\$236,676
Genome Alberta Call	An ALMA - Genome Alberta (GA) targeted call for proposals on Livestock Genomics/Epigenomics to increase production efficiencies; improve the health of livestock including increased resilience to abiotic and biotic stresses; adapt production to accelerated climate change; lessen the environment footprint; achieve the safety and quality attributes; and explore translational challenges including social, political, regulatory, policy or economic barriers that deter the responsible uptake of genomics-based applications in the livestock, and investigating strategies that can foster receptivity.	Dr. David Bailey	Genome Alberta	\$5,000,000





# INDUSTRY & MARKET DEVELOPMENT



## INDUSTRY & MARKET DEVELOPMENT

Title	Description	Organization	Commitment
Marketing Canadian Swine Improvement Programs for Swine Genetics in Asia	Alberta Animal Genetics Consulting Group Ltd. (AAGCG) markets live breeding pigs, fresh and frozen boar semen, and provides consulting services to international swine breeders. China and India are significant markets for these products.	Alberta Animal Genetics Consulting Group Ltd.	\$80,800
Canfax Cattle Market Forum	Providing cow calf operators, feedlot managers, cattle producers and industry stakeholders with up-to-date information on the global economy and currency trends and how they affect the beef industry. Information includes the U.S. beef industry's outlook and the international market outlook to discuss issues that are happening with Free Trade agreements with the European Union, Korea, etc., and perspectives from the retail market leaders, and the issues of competing meats.	Canadian Cattlemen's Association	\$10,000
Multi Media Bison Marketing Initiative	Bison meat meets all the current consumer trends in terms of leaner, healthier meals with smaller portion size. Bison is indigenous to Alberta and is produced sustainably on family farms. In collaboration with the production company, CEG Consumer Education Group, ( <a href="http://ceged.net">http://ceged.net</a> ) a TV program was developed to showcase bison meat, its benefits and versatility in the kitchen, together with the celebrity chef TV program "In the Kitchen" with Roger Mooking. A signature recipe will be created using a lower value bison cut to promote great taste at an affordable price and demonstrate the simplicity of preparing a healthy, nutritious meal using bison meat.	Bison Producers of Alberta	\$39,000
Speaker at the 2013 Legislative Agricultural Chairs (LAC) Summit	The LAC Summit is jointly organized by Alberta Agriculture and Rural Development and the State Agricultural and Rural Leaders (SARL) group. Bringing together U.S. state legislative agriculture chairs, Canadian provincial ministers of agriculture (or their designates), and other elected officials to engage in dialogue to broaden understanding and cooperation between the U.S. and Canada on agricultural issues. The Summit enhances our relationship with our largest trading partner and supports a key Government of Alberta strategic objective of diversifying markets to expand the Alberta economy.	Agriculture and Rural Development	\$10,000
2013 Swine Breeding Management Workshop (SBMW)	This annual workshop serves to transfer the latest research and information from the University and industry to individuals working at farm-level or directly servicing the swine industry. By keeping those working the industry up-to-date with the latest research and technologies, we aim to help producers remain viable and competitive. This year's SBMW will bring together a group of experts who will help workshop delegates understand the welfare considerations of alternative sow housing, as well as the management challenges they will face in adapting these new systems of production.	University of Alberta	\$5,000

Title	Description	Organization	Commitment
2013 UCVM Beef Cattle Conference	Bridging the gap between research and the community. This two-day conference will address pertinent animal health and wellbeing issues that have direct effects on productivity and financial returns to the producer.	University of Calgary	\$7,500
Beef Supply Chain Development for Emerging Markets	Western Feedlots is meeting with key investors and distributors in Bahrain, Saudi Arabia and the United Arab Emirates to explore a beef value chain solution that would dedicate Canadian beef supplies to this region.	Western Feedlots Ltd.	\$10,470
Power Up! Cook with Milk and Eggs	In collaboration with Egg Farmers of Alberta, Alberta Milk is developing a comprehensive teaching resource to be housed on the Alberta Milk website <a href="http://www.moreaboutmilk.com">www.moreaboutmilk.com</a> . The tool will provide teachers with a comprehensive curriculum-linked resource to equip them to teach foods courses more consistently while educating students about meat and livestock products as part of a balanced diet. The students will act as "apprentice chefs" and model the process a chef or cook would use to select foods, understand their nutritional implications and create and prepare dishes that use these foods.	Alberta Milk	\$21,000
Advanced Communications Strategy	Developing and implementing a comprehensive communications strategy, primarily focused on social media. The project will expand their communications/PR efforts and regularly put farmers in the spotlight.	Egg Farmers of Alberta	\$15,127
Development of a New Business Model	To explore ways to efficiently grow and evolve the Association's Loan Guarantee Program to meet the changing needs of the livestock feeding industry. In addition, the FAA will develop a breeder financing program that provides longer-term capital to members allowing the seamless and efficient transfer of feeder heifers to the new program.	Feeder Association of Alberta	\$155,587
Chicken Barn Tour	Educating consumers about chicken farming in Alberta and ignite excitement in elementary children about a career choice in chicken farming. The exhibit will demonstrate modern day agricultural practices incorporating the daily duties of a chicken farmer.	Alberta Chicken Producers	\$61,525
International Agriculture Program	Connecting Alberta industry stakeholders with highly qualified buyers at Farm Fair International to source Alberta cattle, genetics and other agricultural goods and services. The international buyers program consists of a series of programs designed to seek out and attract qualified buyers and facilitate business between domestic and international stakeholders.	Edmonton Northlands	\$40,700

## INDUSTRY & MARKET DEVELOPMENT CONTINUED

Title	Description	Organization	Commitment
Canadian Feedlot Animal Care Assessment Program	Developing and implementing a national feedlot animal care assessment program. The program will be built upon the 2013 Beef Code of Practice. The 2013 Beef Code of Practice contains national guidelines for the care and handling of beef cattle. These guidelines are intended to promote sound management and welfare practices through recommendations and requirements for housing, management, transportation, processing and other animal husbandry practices. Recommended practices strive for continuous improvement and encourage a higher level of care. The program that will be an assessment program designed to demonstrate that the guidelines in the 2013 Canadian Beef Code of Practice are being followed by feedlot producers.	National Cattle Feeders' Association	\$100,000
The Alberta Diet Implementation	Modifying, publishing, printing and marketing a healthy eating guide that highlights the nutritional properties of typical Alberta-grown foods (meat, dairy, eggs, grains, pulses, canola, flax, fruits and vegetables). The menus are based on the serving recommendations for meat and alternatives, dairy and alternatives, vegetables and fruit, and grains in Eating Well with Canada's Food Guide. As such, they provide a balanced approach to the inclusion of foods in the diet by focusing on appropriate portion sizes. The guide, which includes menus, recipes, grocery lists, healthy eating tips and knowledge nuggets from scientific research, will provide consumers and health educators with an easy to use four week healthy eating plan.	University of Alberta	\$80,000
Production Introduction Program (PIP)	Enable Northlands to assist start-up value added food manufacturers ready to leave the AARD Leduc Food Processing Development Centre and the Agri-Food Discovery Place and help convert commercial product potential towards market ready products. This project will develop this process, eventually becoming a self-supporting centre for private sector value-added product development using Alberta-sourced primary production and related food product value chains. An institutional buyers group will also be developed.	Edmonton Northlands	\$103,400
Taste Alberta Gastropost	"Taste Alberta partnered with Save-on-Foods and the Alberta Livestock and ALMA to launch Edmonton and Calgary versions of Gastropost in late 2013. This concept was introduced in Toronto and has also launched in Vancouver. Gastropost consists of weekly missions fulfilled by consumers through a wide variety of social media platforms, including Facebook, Twitter, Instagram and their respective websites. In their words: get a mission, do a mission and Gastropost it. Weekly winners are selected to have their photos published in the Calgary Herald or Edmonton Journal. With hundreds of followers on Twitter and a growing amount of submissions each week for each city's Gastropost, Taste Alberta has found another way to encourage consumer engagement and demand of local foods.	Alberta Chicken Producers	\$500,000

Title	Description	Organization	Commitment
Consumer Website	Redesigning the Alberta Chicken Producers' website to draw consumers into the site with streaming video/audio, a comprehensive cooking and recipe section including video demonstrations, and quick access to information on chicken farming. The site will benefit producer and the public's need for information, educate consumers, and build public understanding of the industry, its societal responsibilities and culinary opportunities.	Alberta Chicken Producers	\$19,500
Anuga 2013	Since access to the duty free market was granted to Canada for high quality, hormone free beef, Alberta companies stand to benefit tremendously from market development in the EU. There also exists opportunities for bison and elk meat as premium game products garnering high prices for premium cuts. Anuga is the worlds biggest meat fair: meat, sausages and poultry each have their own hall. More than 62,000 visitors from the trade and the food service and catering market attend the show and 83 per cent of them are decision-makers. This project is a partnership between Canada Beef Inc., ALMA and Alberta companies to jointly promote Alberta proteins at SIAL. The beef and bison companies that attended include Prairie Heritage Beef, Kobe Classic Beef, Canadian Beef Back Bacon and Carmen Creek Bison.	Canadian Beef Cattle Research, Market Development and Promotion Agency	\$38,500
Food Market Campaign	Based on research, Organic Alberta has developed a 2 -year organic education and marketing plan that will build awareness, understanding, loyalty and increased sales of local organic food. Organic Alberta has also put together a comprehensive program for increasing supply and producer access to those markets. This two pronged approach will allow Alberta organic producers to take advantage of the strong marketplace to increase profitability and grow the local organic sector.	Organic Alberta Council	\$140,370
Milk and Quota Management Process	Completing the implementation of LEAN concepts to the current Milk and Quota Management process to ensure producers and stakeholders receive the right information at the right time in the right format to assist them in making day-to-day management decisions. This will allow for increased productivity both on farm and at Alberta Milk, while improving services and information provided to producers and stakeholders.	Alberta Milk	\$8,535
Developing a Viable Sustainable Lamb Industry	"Enhancing industry collaboration, improve lamb quality, improve access to markets, increased leadership in industry, and improve the competitiveness in production efficiency and advocacy. This will be accomplished through the development of resource modules on predation and marketing, five industry business training sessions, development of flock production models, SheepBytes training, attendance at the American Sheep Industry conference, lamb feeding trial, online nutrition training, and research on carcass assessment.	Alberta Lamb Producers	\$167,500

## INDUSTRY & MARKET DEVELOPMENT CONTINUED

Title	Description	Organization	Commitment
Reefers in Cold Chain Logistics: evidence from import and export-based North American supply chain	Refrigerated ISO containers, also known as reefers, account for a growing share of the refrigerated cargo being transported around the world. This research will look at how cold chain networks are integrated through the reefer in container networks, identify issues of concerns and should lead cold chain participants towards effective solutions.	Van Horne Institute	\$5,000
Keeping a Finger on the Pulse of Livestock Welfare in Alberta	Taking the lead on facilitating communication between different commodity sectors and addressing the needs and concerns facing the Alberta livestock industry on animal welfare. A united front will help to keep the industry strong and sustainable while also fostering ties between sectors and support for animal care practices across commodities.	Alberta Farm Animal Care	\$114,100
Power 2Be Me	Developing a nutrition education program for junior high school students that will meet Alberta curriculum outcomes and be engaging for students. Through the program, students will improve their food choices by acquiring knowledge about how and why to eat well through self-monitoring, self-awareness and understanding that eating well can be challenging. They will identify and implement meaningful strategies to make healthier food choices. They will also learn to critically interpret and analyze nutrition messages in the media.	Alberta Milk	\$101,500
Farm Masters 2.0 Grazing Project	The Farm Masters 2.0 program will introduce managed grazing to a new generation of farmers in a medium that they are accustomed to: online. The project will see the knowledge, wisdom and experience of extraordinary grass managers collected and compiled with the intention of offering this education to young farmers thirsty for such knowledge. To be successful, young farmers know they need to learn skills and understand as quickly as possible, but often face a challenge of translating their learning into practical steps.	International Farm On Foundation	\$50,000
Implementation of a Communications and Knowledge Strategy for Innovation in the Alberta Dairy Industry Exchange Transfer	Leading this project in a joint submission on behalf of all of the DRECA partners. The project will focus on three objectives: promote awareness and facilitate adoption of the proAction initiative, particularly in areas related to biosecurity, animal welfare, environment and traceability; increase knowledge exchange within the dairy industry; and promote communication and collaboration among DRECA partners for better research and communication to assist the Alberta dairy industry.	Alberta Milk	\$90,000
Passion for Pork Partner Relations Program	The Passion for Pork Partner Relations Program will focus on five key strategic areas over the next year to change the fundamental relationship between all the players in the Alberta pork value-chain so they can all profit, while improving the eating experience for our consumers.	Alberta Pork	\$475,000

Title	Description	Organization	Commitment
The Practical Application and Development of Easy to use Genomic Selection Tools for Breed Improvement	Addressing the technology transfer problem, by helping to fund a Breed Improvement Program administered through the Canadian Beef Breeds Council (CBBC) for the purebred industry. Ensuring that industry has access to the knowledge and tools that are required to successfully incorporate new technologies into their breed improvement decisions, which will in turn strengthen the quality, health, and production efficiency of Canadian cattle. This should further our genetics export goals, our domestic profitability goals and the well-being of Albertan cattle producers.	The Canadian Beef Breeds Council	\$215,000
Gulfood Show 2014	The Alberta companies will showcase products and meet with buyers at Gulfood 2014. Additional awareness will be driven by Canada Beef at a Canadian tasting event organized in cooperation with the trade commissioner's office in Dubai. The focus will be to the premium market sectors of food service and retail. The beef and bison companies that will be attending are Prairie Halal (representing Heritage Angus Beef), Kobe Classic Beef and Maple Beef Bacon.	Canadian Beef Cattle Research, Market Development and Promotion Agency	\$51,500
GE3LS Workshop and Roadshow	Addressing the associated ethical, environmental, economic, legal and social ("GE3LS") concerns with livestock genomics. Additionally, there is a growing disconnect between the public's understanding and perception of livestock genomics technologies and what these technologies actually entail. Phase 1 will consist of a workshop to bring together experts from industry, academia and consumer groups to discuss the GE3LS issues most relevant to Alberta's livestock sector and develop concrete ideas for future research projects on these issues. Using the information arising from the workshop, Phase 2 of the project will consist of an interactive travelling roadshow across Alberta to engage with the public on the areas of greatest disconnect.	Genome Alberta	\$50,481
Commercialization of Egg Peptide Technologies - Feasibility Study	Investigating methods to process eggs into value-added functional foods and nutraceuticals. More specifically, his research involves protein/bioactive peptide preparation, purification, characterization and bioactivity evaluation using chemical methods, cell culture and animal models. Dr. Wu has partnered with Afinity Life Sciences (Afinity) on a feasibility study to further develop and commercialize these egg peptides.	University of Alberta	\$18,000
Milk Every Moment Experimental Milk Truck	In 2012 Alberta Milk joined a national collaboration, the Strategic Milk Alliance, seeking to reverse the decline in milk consumption across English speaking Canada. The objective of the Milk Every Moment campaign is to establish an emotional connection with the target audience by bringing back memories of positive moments from childhood that involved milk drinking.	Alberta Milk	\$137,300

## INDUSTRY & MARKET DEVELOPMENT CONTINUED

Title	Description	Organization	Commitment
Mapping Pork Lymph Nodes	Identification and removal of lymph nodes in specific pork primal and sub-primal cuts and source specific trimmings has become an important issue and a requirement for access into some emerging value-based exports markets for Canadian processors. Failure to meet specs in one part of a delivery results in rejection of the whole delivery and may result in loss of a contract. Current lymph node reference material available to the meat processing industry tends to be non-specific with primary reference points and orientation based on a live animal point of view. Developing a standardized primal cut based reference tools that provide detailed information about lymph node identification, location and systematic removal procedures from a meat processing point of view.	Olds College	\$25,073
Animal Care in Alberta: Telling Our Story	There have been a number of negative, inaccurate and falsified blows to animal agriculture. The industry is standing strong but needs to do a better job of telling its story. Producers are ready to step up and show the world what they do, how their animals are treated and the activities involved in running a farm. This project will strengthen and maintain the social license through awareness and transparency of the industry, resulting in a more positive image of agriculture and a supportive consumer audience.	Alberta Farm Animal Care	\$178,500
Food Nutrition and A Balanced Diet - An Educational Digital Asset for Youth	Alberta Beef Producers in partnership with MindFuel, and with support from ALMA, will develop a learning asset that would function as a digital, alternate reality game focused on food nutrition and balanced diets and also talk about beef as a part of a balanced diet. The digital game will support pre-consumers' understanding of the science behind food nutrition and help them to make positive decisions about food and ultimately improve the overall food literacy of Canadians.	Alberta Beef Producers	\$90,000
2013 Canadian Nutrition Society Annual Meeting and Food and Health Workshop	Educating and disseminating current perspectives on nutrition to health professionals and trainees.	Canadian Nutrition Society	\$10,000
Beef Innovations 2013	Beef Innovations 2013 is focused on bringing beef industry stakeholders together to educate the industry on current DNA technologies and how these innovative technologies can be incorporated into the Canadian beef production system to assist in more accurately identifying traits of economic importance. Targeted to all sectors of the beef production chain with a focus on applying these technologies in order to improve the competitiveness of the Canadian beef industry.	Canadian Simmental Association	\$10,000



Title	Description	Organization	Commitment
2013 Beef Festival	"The Beef Festival will help connect consumers with producers, retailers and suppliers to educating them with respect to the standards and the high quality beef products available in Alberta.	Alberta Cattle Feeders' Association	\$10,000
Financial Support of the 2013 Western Nutrition Conference	This year's theme "Processing, Performance and Profit". Canadian and international speakers will discuss the latest advances in new ingredients and new diet formulations for monogastric and ruminant livestock industries. The "Processing" stream will address new research in feed manufacturing, as well as a plenary session involving a debate between a nutritionist and a feed plant manager.	Animal Nutrition Association of Canada	\$15,000
Canadian Roundtable for Sustainable Beef (CRSB) Inaugural Meeting	Advancing continuous improvement in sustainability of the global beef value chain through leadership, science, multi-stakeholder engagement and collaboration.	Canadian Cattlemen's Association	\$7,500
Canadian Bison Association National Convention	Theme: "Honouring our Past- Creating Our Future". Events and activities of the global marketplace, climatic change, industry consolidation and youth in agriculture have an impact on how the industry grows to meet the strong demand for bison products. This convention creates an opportunity to share and discuss these issues, which have an impact on the future growth of the industry.	Canadian Bison Association Corp.	\$15,000
Banff Pork Seminar 2014	Addressing the major issues facing the pork industry. These include increasing exports, domestic processing and domestic consumption, reducing feed costs and disease risks, improving production efficiency, animal nutrition and industry communication and management, retrofitting existing farm facilities to meet new animal welfare guidelines, supporting research and technology transfer, and training of highly qualified personnel.	University of Alberta	\$30,000
LGC 2013 Turning Information Into Application	The event contains a half-day extension session to provide producers with the tools to benefit from existing technologies and programs. Allowing Livestock Gentec to continue educating and engaging stakeholders in the economic benefits of genomics technology adoption in Alberta's livestock industry. Extending the Livestock Gentec brand as a trusted and reliable industry resource in the exploration, education, and integration of new technologies.	University of Alberta	\$6,000
Canada Beef Annual Forum	Theme: 'Building Brand Loyalty- A Commitment to the Brand' and the discussions revolve around the importance of a Canadian beef brand, the value that our partners see in incorporating the brand into their business and the role all the players in the industry - from producer to packer and retailer - have in upholding the Canadian beef brand promise.	Canada Beef Inc.	\$4,000

## INDUSTRY & MARKET DEVELOPMENT CONTINUED

Title	Description	Organization	Commitment
2013 Alberta Goat Breeders (AGBA) 2nd Annual Convention & Breeders Support Project	Theme: "AGBA on the Move -- New Vision -- New Focus -- New Mission" is the foundation slogan of an important industry initiative to begin the development of the Alberta Goat Breeders Association into a professional, forward-thinking and dynamic organization at the forefront of leading the goat industry into the greatest period of expansion and development to-date. Producers will be provided with a chance to learn, network and ask questions. The presentation topics are diverse but the overall theme this year centers on learning and motivation.	Alberta Goat Breeders Association	\$7,000
Taking Forages Mainstream-Challenges, Pitfalls, Opportunities	Promoting the growth of the forage and grassland sector by advocating a sustainable and environmentally-friendly industry, which includes research and development, market development and innovation thereby enhancing the industry's ability to profitably produce and supply forage and grassland products that offer superior value to producers and consumers in Canada and internationally. This project will bring together industry stakeholders from across Canada to discuss the impact of previous activities and develop a strategy for the upcoming year.	Canadian Forage and Grassland Association	\$10,000
Alberta Milk Dairy Conference	Theme: "Translating Sustainability: Economic. Environmental. Social." Alberta Milk defines sustainability as meeting the needs of the future without compromising the needs of the present, and building a foundation for the future to meet its own needs.	Alberta Milk	\$5,958
Ranching Opportunities 2014	The one day symposium is made up of several sessions all relating to advancing the overall productivity and strength of the beef industry. Including a tradeshow providing an ideal networking opportunity for participants and industry experts. The primary objective of this project is to bring together individuals in the beef industry with industry experts.	Kneehill County	\$5,650
Ag for Life Harvest Gala	The Ag for Life Harvest Gala celebrates the harvest and showcases foods grown and raised in Alberta; provides networking opportunities for agricultural producers groups, corporate Alberta, government and primary producers; and informs guests of the programs in which Ag for Life invests.	Agriculture for Life Inc.	\$10,000
2013 Symposium "Creating Connections"	Theme: "Creating Connections." Speaks to the very core value of our Symposium: knowledge transfer. The symposium creates opportunities for people throughout the industry chain - from primary production, through herd health professionals to researchers - to meet and exchange information. This exchange of ideas will help researchers learn what primary producers need or are observing day-to-day.	Alberta Sheep Breeders' Association	\$10,000

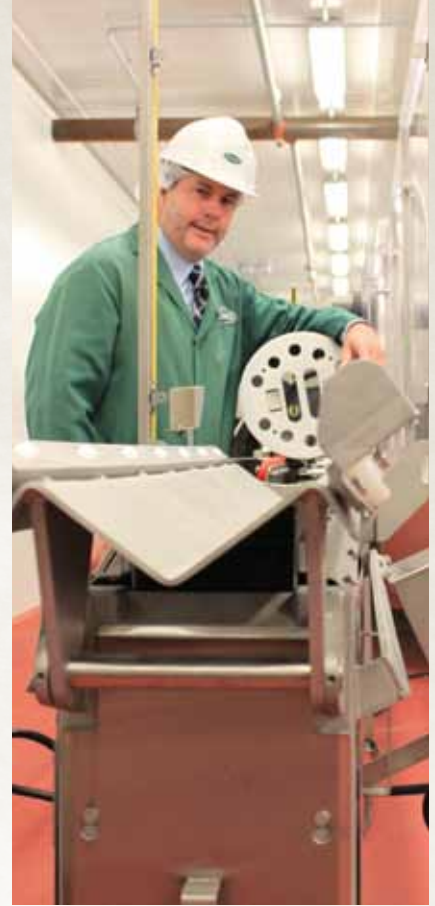
Title	Description	Organization	Commitment
Support for students for ASTech Awards	The ASTech Gala is a black-tie event with more than 600 attendees, including Alberta leaders in science and technology from industry, research, development, start-ups, not-for-profits and government. Promoting the importance of science and technology in Alberta and is measured by a post-event survey and subscriptions to our e-newsletter, Twitter and LinkedIn channels.	Alberta Science and Technology Foundation	\$2,000
WCABP 23rd annual Conference	The annual conference is dedicated solely to continuing education focused entirely on beef and dairy cattle health and production. Because of this relatively narrow focus, we provide a premium continuing education opportunity that veterinary practitioners cannot access anywhere else, especially within Western Canada.	Western Canadian Association of Bovine Practitioners	\$10,000
Livestock Care Conference (LCC)	The Alberta Veterinary Medicine Association (ABVMA) is a partner in this conference, which will enable researchers, industry, students, government and the public to address challenges and trends in animal care. Focusing upon the relationship between producers, retailers and consumers, looking at animal rights activist pressures, consumer perceptions and staying on top using social media and innovative farming practices.	Alberta Farm Animal Care	\$12,500
Tiffen Conference	Theme: "Beyond the Barn Doors: the Globe is Your Marketplace." Aimed at progressive primary producers, agri-business, agricultural entrepreneurs and post-secondary agriculture students.	Lethbridge College	\$5,300
Support of the audio visual equipment and services for conducting two "meeting place" sessions	Providing assistance through support of audio visual equipment and services for conducting two 'Meeting Places' to be hosted (Eastern and Western Canada). It will bring together senior-level executives to further dialogue toward collectively building a stronger, more viable, competitive and profitable beef industry. This activity will see the development of viable industry strategic plans and further dialogue on key issues and opportunities that have the capacity to positively impact profitability.	Kolk Farms Conrich Ltd.	\$10,000
4-H Alberta Provincial Leaders Conference	The Leaders' Conference brings three days of intense learning and invaluable networking to approximately 300 4-H leaders, staff and workshop facilitators from Alberta and across Canada. There are more than 30 session topics to choose from, ranging from how to deal with conflict to effective communication.	4-H Foundation of Alberta	\$20,000
Meat Industry Convention and Trade Show 2014	The meat industry convention is focused on knowledge transfer from networking with fellow industry members and suppliers, as well as from the educational workshops. ALMA is partnering with AFPA on the student education component. Students from NAIT, SAIT, U of A, U of C and Olds College will attend the event to learn from industry experts.	The Alberta Food Processors Association	\$10,330

## INDUSTRY & MARKET DEVELOPMENT CONTINUED

Title	Description	Organization	Commitment
Strategies to Optimize Performance	The Western Canadian Dairy Seminar is a forum for the exchange of ideas of benefit to the industry; to inform and challenge the dairy industry to take a leading role in the development of the industry through the adoption of the latest technologies and available information; and, to discuss current issues challenging the dairy industry.	University of Alberta	\$20,000
2014 Nutrition File Seminar	The seminar educates and informs health professionals and educators about current nutrition topics and issues that are important to the dairy industry. Alberta Milk's goal is to ensure that dairy nutrition is top of mind and to provide these key influencers and multipliers with relevant and credible nutrition information.	Alberta Milk	\$17,500
Alberta Beef Industry Conference	The Alberta Beef Industry Conference remains a cornerstone for the beef industry to network with peers and access information regarding industry best practices, trends in services and technology and current industry initiatives.	Alberta Cattle Feeders' Association	\$15,000
FEASTival of Fine Chefs-26th Annual	Chefs from participating establishments prepare a four-course feast for 1,500 attending consumers. These establishments don't know what they were preparing until they receive their ingredients (black box hampers) just 24 hours in advance. All food items featured are Alberta grown and/or processed in Alberta and the establishments must utilize the meats in their hampers for their appetizers and main course.	Alberta Food Processors Association	\$12,000
Alberta Chicken Producers Symposium	The symposium will focus on farm management and antimicrobial stewardship. Expert keynote speaker topics include brooding strategies, nutritional strategies, diagnostics, and alternatives to antimicrobials.	Alberta Chicken Producers	\$12,500
International Livestock Congress Beef	The International Livestock Congress is a gathering of national and international cattle industry members, students and related agricultural industry stakeholders to learn, discuss, and debate the issues that impact the beef industry locally and globally. This year's conference will focus on the opportunities of marketing the whole carcass.	Canadian Cattlemen's Association	\$59,000
Alberta Institute of Agrologists Tenth Annual AGM and Conference	The 2014 conference on climate and food will address challenges that the agriculture industry is currently facing. The conference will focus on how the change in climate will affect agriculture both locally and globally and, alternatively, how agriculture is affecting climate change.	Alberta Institute of Agrologists	\$6,000

Title	Description	Organization	Commitment
2014 Canada pork International (CPI) Conference	"Canada Pork International's annual International Conference provides CPI members with a unique opportunity to listen to international speakers on market access and global pork trade issues, challenges and opportunity.	Canada Pork International	\$5,000
Alberta Chicken Producers Annual General Meeting	"Focusing on Farm Security, Animal Activism in Canada, Restaurant Industry Trends and the U.S. based Animal Agriculture Alliance.	Alberta Chicken Producers	\$10,000
Olds College Gala Dinner	Olds College Gala brings together key industry stakeholders and showcases Alberta products. This year, with the completion of the National Meat Training Center, the students and instructors will be showcasing the Training Center, the program and the specialty meat items they create.	Olds College	\$10,000
2014 Alberta Elk Commission 29th Annual Convention Support Project	The Alberta Elk industry is on the cusp of some very important and paradigm-shifting changes. Treating our producers like "regular farmers" is something that they have dreamed about. Our producers longed for the day when they were no longer "different" from their neighbour who farmed bison or cattle or turkeys ....and today is that day. The regulatory foundation of this industry is changing so significantly this year that it will effect how this industry fundamentally functions from here on. This convention is, in many ways, the foundational gathering for this industry as we move into the next 25 years.	Alberta Elk Commission	\$8,500
Annual Bison Producers of Alberta Conference	This annual conference, AGM and Show and Sale for members is held in central Alberta. The conference will have technical workshops provided by presenters with expertise in bison production, nutrition, health and welfare and marketing.	Bison Producers of Alberta	\$7,522
The Contribution of Genomics to Improve Meat Production and Food Security	Ensuring that targeted audiences get the most from the public meetings with four background documents written in a manner that translates complex subject matter into concise and clearly written language for the target audiences.	Genome Alberta	\$40,000

# Research & Development Kitchen



## COMMERCIALIZATION



## COMMERCIALIZATION

Title	Description	Organization	Commitment
Prosperity Initiative	Diversifying and capitalizing on emerging market opportunities in both Canada and the US.	Select Ready Foods Inc.	\$213,071
Revenue Growth - Phase 1	Expanding volume throughput with new product development and employment. To grow existing volume base by adding to customer base.	Reddi Food Group Inc.	\$82,455
Ewe-Niversal Lamb	Ewe-niversal Farm is gearing up to put its naturally raised lamb and lamb sausage into local grocery stores.	Stretch Farms Ltd.	\$12,375
Entering Into Retail Market	Introducing product in retail size to grocery chains across Alberta, B.C. and Saskatchewan.	1163458 Alberta Ltd. o/a Crystal Springs Cheese	\$8,583
RTE Business & Operations Planning	Business and operational evaluation of current operations and products with plans to develop a new processing facility.	Pioneer Meats o/a Valbella Gourmet Foods	\$23,700
Growing and Expanding the Market	Performing market studies to grow the Traditional Hutterite brand and build customer demand for the "New Natural Ingredient" formulation of the sausage products.	Clear Lake Colony Farming Co. Ltd.	\$66,749
Market Development for "Bacon by Brad"	Increasing the market penetration and manufacture more cost effectively a new Alberta-based condiment containing bacon.	Tag Along Culinary Ltd. o/a Kitchen by Brad	\$16,675
Rock Ridge Dairy Product Development	Developing the recipes and processes for value added cow cream processing to ensure the proper production of quality organic cultured butter, chevre, whipping cream, coffee creamer, cream cheese, and feta.	Rock Ridge Dairy Ltd.	\$61,975
Marketing Sales and Implementation Plan	Implementation of new branded marketing and sales plan.	Trochu Meat Processors	\$29,500
Launch of New Healthy Dried Meat (Jerky) Snacks	Launching a new healthy dried meat (jerky) snacks. These dried meat products are high in protein, low in sodium, contain no artificial additives and are very flavorful.	Northern Mountain Foods Inc.	\$8,763
Pet Food Product and Market Development	Lamb based pet food product development and market planning for a launch into the Canadian pet food market.	SunGold Specialty Meats Ltd.	\$84,650

## COMMERCIALIZATION CONTINUED

Title	Description	Organization	Commitment
Safeway Deli	Developing new packaging unique to retail store chain.	710769 Alberta Limited o/a Royal Food Products	\$32,838
Mountain Top Market Expansion	Developing and launching two new products and to grow market share and presence through tradeshow.	Mountain Top Foods Ltd.	\$35,975
Business Expansion Brant Lake Wagyu	Expanding markets across Canada, launch new products and complete a feasibility study for the retail channel and value-added processing.	Brant Lake Cattle Company Inc. o/a Brant Lake Wagyu	\$44,984
Diamond Willow Website - Redesign of Existing Labels	Launching branded beef program and associated website to reflect the company and it's products.	Diamond Willow Organics (2012) Ltd.	\$4,250
Automated Processing Capacity for Value Added Poultry	Targeting value added processing market opportunities for cut up chicken, boneless cuts, and fresh chicken sausage.	High River Colony Farming Company Ltd.	\$20,595
Japan Export Beef Products	Traveling to Japan to develop a new line of products for some Japanese customers.	XL Foods Inc.	\$3,947
Whole Animal Products	Develop and launch several whole, raw frozen animal products into the Canadian pet food retail market.	Mountain Dog Enterprises Inc.	\$40,556
2014 SunGold Product and Market Development	New market development for the domestic retail market, food service and international presence in Dubai and USA.	SunGold Specialty Meats Ltd.	\$69,125
Prosperity Initiative	Strengthen Select Ready Foods competitive edge and improve security using new technology and enhanced productivity, and diversify and capitalize on emerging market opportunities.	Select Ready Foods Inc.	\$570,800
Centennial Calgary Grinding Equipment Expansion	Purchase new equipment to create two separate production lines required to improve productivity, efficiency and traceability.	Centennial General Partner Inc.	\$218,100
New and Replacement Racking	Install additional racking to provide the necessary storage and flow management capacity to achieve the annual growth goal.	Intercity Packers Ltd.	\$14,563



Title	Description	Organization	Commitment
Increase Capacity to 125 ML/Y	Increase productivity through efficient transportation and processing of milk in the plant. This long term strategy will offer the capacity needed to attract new customers.	Agropur Cooperative	\$1,000,000
Refrigerated Cooling Equipment and Packaging Equipment	Purchase and install new equipment to automate processing operations for production capacity, enhance food safety and workplace safety.	Hutterian Brethren Church of Ridge Valley	\$21,900
Cost Reduction-Phase 1	Purchase key pieces of equipment to add volume and increase production efficiency.	Reddi Food Group Inc.	\$106,395
Plant / Process Integration	Purchase and relocate equipment into one new facility to increase efficiencies and reduce overhead costs.	Siwin Foods Ltd.	\$252,320
Production Improvements	Improve the production process to provide the service platform needed to access and comply with the necessary requirements of specific markets.	Canadian Premium Meats Inc.	\$172,521
Pie Efficiency Extension	Incorporate new equipment to increase efficiency and move people off the production line into the packaging line offering more labour versatility.	710769 Alberta Ltd. o/a Royal Food Products	\$12,220
Automated Productivity Advancement of Poultry Processing Facility	Add Equipment to provide optimal processing capacity and efficiency.	High River Colony Farming Company Ltd.	\$9,078
Automated Poultry Processing Development Project	Implement extensive project management and acquire construction, civil, electrical and mechanical engineering design for a state of the art facility.	Sunworks Farm (2013) Ltd.	\$110,000
H & M Equipment Modernization	Upgrade processing equipment to increase efficiency and output.	H & M Meats Inc.	\$52,511
Capacity Expansion	New equipment for a commercial sous-vide manufacturing facility.	Etuve Food Inc.	\$211,730
Automated Pet Food Processing	Automate the pet food processing operations through the acquisition of appropriate equipment to ensure its line of cooked and raw products are efficiently and economically produced for Alberta markets.	Dog's Choice Food Ltd.	\$98,600
Hide Processing Plant Development	Process engineering to develop a new hide processing plant to improve quality, efficiency and storage capacity with improved containment structure for environmental standards.	Bouvry Exports Calgary Ltd.	\$62,500

## COMMERCIALIZATION CONTINUED

Title	Description	Organization	Commitment
Beef Plasma Processing Facility	Install blood collection equipment in a slaughterhouse to process blood plasma.	APC Nutrition Ltd.	\$258,500
Poultry Processing Facility	Processing equipment for a government-inspected poultry processing facility to produce value-added products	Hutterian Brethren Church of Camrose	\$81,689
Barcode Scanning System	Install an automated barcode scanning system to enhance in the traceability of both raw material and finished goods.	Cargill Limited	\$25,190
Cooler Freezer Addition	Purchase new equipment that will increase the production and storage capacity of the facility.	AW Quality Meat Processing	\$33,170
Calgary Phase III	Increase plant capacity with new equipment and automating processes.	Cargill Limited	\$500,000
Automation and Efficiency Upgraded Box Labelling System and Warehouse Management System	New boxing and labeling system along with training personnel on the new system. System for tracking production movement digitally throughout processing.	Nossack Fine Meats Ltd.	\$29,307
Bashaw Meats and Sausage	Purchase and install a reverse osmosis system and packaging equipment.	Bashaw Meats & Sausage Ltd.	\$5,888
Shrink Tunnel for Chickens	Install a new shrink tunnel equipment for labour and energy cost savings and increase the food safety of the packaging operation.	Warburg Colony Farming Co. Ltd.	\$2,800
Rock Ridge Dairy Product Development Equipment Portion	Increase the automated value added cow cream processing capacity to ensure the efficient production of quality organic cultured butter, chevre, whipping cream, coffee creamer, cream cheese and feta.	Rock Ridge Dairy Ltd.	\$30,102
Emergency Water Treatment System	Secure engineering knowledge, design and identify equipment to minimize impact of water shortages on cattle processing.	Cargill Limited	\$160,000
New Slaughter Floor and Line	Construct new lamb harvest with new equipment, capabilities, efficiencies, food safety enhancements and ergonomics.	SunGold Specialty Meats Ltd.	\$794,008
New Tallow Tank and Cry-O-Vac Machine	Install a new tallow storage tank system to address environmental, safety and efficiency issues. Install a new packaging system to handle increased order volume and improve efficiency.	Maple Leaf Foods Inc.	\$239,925

Title	Description	Organization	Commitment
Meat Handling System-High Intensity Preconditioner (HIP)	Implement a world-class lean manufacturing program with a new meat handling system and a new high intensity preconditioner.	Champion Petfoods LP	\$218,834
Sparks Cooler Racking and Dry Storage	Install a custom-designed racking to improve storage and distribution efficiency.	Gilani Investments Of Alberta Ltd.	\$40,468
Hide Processing Plant Development - Phase 2 - Equipment & Process	Upgrade facility with equipment to ensure, proper salination of hide, adequate hair recovery (filtration) and adequate aeration for a better quality hide and customer appeal.	Bouvry Exports Canada Ltd.	\$177,389
Calgary Fresh Slurry Processing Line 2013 Expansion	Provide added equipment to increase processing capacity, ensure continuous supply and to create customized blended products.	BHJ Canada Meat Products Inc.	\$159,780
OTM Cattle Efficiency Improvement	Change the process for the removal of the head and cheek meat to improve ability to harvest more meat from cattle with a safer process for employees.	JBS Food Canada Inc.	\$135,618
Continuous Chicken Cook line	Increase efficiency, shelf life and employee safety.	Lilydale Inc.	\$182,881
Functional Plan and Process Development Planning	Review and develop a functional plan for the expansion of the facility, and develop a process that increases the overall capacity and productivity.	Mountain Top Foods Ltd.	\$17,000
Southern Alberta Processing Co. Hide Press Project	Install a hide press to remove excess water from the brined and cured hides, improving the processing efficiency of hide operations and reducing shipping / export costs.	West Coast Reduction Ltd.	\$19,200
Traceability Initiative for Improved Food Safety and Production Efficiency	Modernize information management structure using a barcode scanning system for increased inventory accuracy, product identification and traceability.	Capital Packers Inc.	\$42,463
Hide Fleshing and Salting	Purchase and install equipment to flesh and salt hides.	Trochu Meat Processors Ltd.	\$30,032
Communications Wireless Interconnect Towers and Clusters	Install communication towers and servers to allow communications of data between head office and the production facility.	Nossack Fine Meats Ltd.	\$13,511
Metal Detector	Purchase and install a metal detector to ensure products are free of any metal prior to shipment to customers.	Rollover Premium Pet Food Ltd.	\$2,375

## COMMERCIALIZATION CONTINUED

Title	Description	Organization	Commitment
Plant C.I.P	Clean in Process (CIP) system to automate cleaning of production piping, tanks and vessels to improve food safety and efficiency.	Foothills Creamery Ltd.	\$43,465
Patty Project	Upgrade beef patty machine to increase production for identified opportunities.	Spoletini Palumbo Inc.	\$3,087
Beef N Cheese	Purchase equipment to allow for a new and innovative line of co-extruded ready-to-eat products.	Big Chief Meat Snacks Inc.	\$210,060
Puppy Love Pet Products - Cooker Five	Add a new cooker to the production facility to increase production capacity.	Puppy Love Pet Products Inc.	\$16,197
Automation of Packaging and Splitting of Carcasses	Update splitting saw to increase efficiency, and new packaging equipment to produce a better product for custom meat processing clients.	1066055 Alberta Limited o/a YB Quality Meats	\$36,750
Alberta Cheese Company	New cheese making equipment to match current capacity and remove any bottlenecks.	Alberta Cheese Company Ltd.	\$139,550
Swiss Cheese Capacity Increase	Increase swiss cheese line capacity.	Agropur Cooperative	\$267,500
Engineering for Plant Mechanical Services Capacity Increase	Conduct a feasibility study on utility requirements and plant requirement to set up a whey plant.	Agropur Cooperative	\$150,000
Meat Grinder	New meat grinder with increased capacity to provide more volume of products to the market.	Delizias Pasta Ltd.	\$820
Boning and Packoff Automation - Equipment and Process	Three part project to address boning yield improvement, increase pack-off capacity, and palletizing automation.	Bouvry Exports Calgary Ltd.	\$46,662
Process Improvement Project	Implement process improvement projects at five locations within the facility to improve efficiencies and increase yields.	Cargill Limited	\$889,923
Nanton Production Plant	Review and develop a function plan for the expansion of the facility and develop a process that increases the overall capacity and productivity.	Mountain Top Foods Ltd.	\$16,800
Dry Storage Expansion and New Air Compressor	Purchase and install a new air compressor and associated equipment to handle increase production requirements.	Maple Leaf Foods Inc.	\$94,963
Sambusa Machine Model SAM 25HT	Purchase automated machine for Sambusa line.	Hooyas Foods Ltd.	\$75,824

Title	Description	Organization	Commitment
Expansion Efficiency	Purchase equipment and expand current facility to add capacity for production, storage and processing to meet demands for increased product in Eastern Canada.	1163458 Alberta Ltd. (t/n Crystal Springs Cheese)	\$37,944
Centennial Edmonton Equipment and Expansion	Purchase new portion cutter (steak machine) and new packaging machine to improve productivity.	Centennial General Partner Inc.	\$69,500
Automated Processing Capacity for Value Added Poultry Products	Target value added processing market opportunities for cut up chicken, boneless cuts and fresh chicken sausage. Purchase sausage and value added processing equipment to address market demand for wholesale food service and retail ready distribution.	High River Colony Farming Company Ltd.	\$10,555
Construction of a Biological Wastewater Treatment Plant at a Beef Cattle Packing Plant	Create a sustainable way to use water in the Harmony Beef plant.	Harmony Beef Company Ltd.	\$997,234
Red Deer Facility Dairy Products Processing	Expansion and modernization to increase efficiency of the manufacturing plant.	Saputo Dairy Products G.P.	\$120,000
Cooler & Freezer Expansion Feasibility & Master Plan	Investigating and designing equipment required for cooling (carcass) and freezing (finished boxed product) that will fit into the current plant design.	Bouvry Exports Calgary Ltd.	\$24,000

# OUR PARTNERS

4-H Foundation of Alberta	Bouvry Exports Calgary Ltd.	Etuve Food Inc.	Nitric Solutions Inc.
Agriculture & Agri-Food Canada	Brant Lake Company Inc.	F.T. Marshall Veterinary Services Ltd.	Northern Alberta Institute of Technology
Agriculture for Life Inc.	Burrage Veterinary Services	Feeder Associations of Alberta Limited	Northern Mountain Foods Inc.
Agropur Cooperative	Calgary Exhibition and Stampede Limited	Food Processors Logistics Research Council	Nossack Fine Meats Ltd.
Alberta Animal Genetics Consulting Group Ltd.	Canada Pork International	Genome Alberta	Northern Mountain Foods
Alberta Agriculture and Rural Development	Canadian Aberdeen Angus Association	Gilani Investments of Alberta Ltd.	Olds College
Alberta Beef Producers	Canadian Beef Breeds Council	Goldfinch Canada Ltd.	Ontario Farm Animal Council Inc.
Alberta Biodiversity Monitoring Institute	Canadian Beef Cattle Research, Market Development and Promotion Agency	Government of Alberta- Agriculture & Rural Development	Organic Alberta Council
Alberta Cattle Feeders Association	Canadian Beef Grading Agency	Gowans Feed Consulting	Pioneer Meats Ltd.
Alberta Centre for Advanced MNT Products	Canadian Bison Association Corp.	H & M Meats Inc.	Poultry Health Services Ltd.
Alberta Chicken Producers	Canadian Cattlemen's Association	Harmony Beef Company	Prairie Diagnostic Services Inc.
Alberta Culinary Arts Foundation	Canadian Culinary Federation - Edmonton Association	High River Colony Farming Co. Ltd.	Prairie Swine Centre Inc.
Alberta Egg Producers Board	Canadian Food Inspection Agency	Highmark Renewables Research Limited	Prairie Swine Health Services
Alberta Elk Commission	Canadian Forage and Grassland Association / Association Canadienne pour les Plantes Fourrageres	Hooyas Foods Inc.	Quantum Genetics Canada Inc.
Alberta Farm Animal Care Association	Canadian Meat Science Association	Horse Industry Association of Alberta	Reddi Food Group Inc.
Alberta Food Processors Association	Canadian Nutrition Society	Hutterian Brethren Church of Camrose	Rock Ridge Dairy Ltd.
Alberta Goat Breeders Association	Canadian Premium Meats Inc.	Hutterian Brethren Church of Ridge Valley	Royal Food Products
Alberta Innovates - Bio Solutions	Canadian Simmental Association	Integrated Traceability Solutions Ltd.	Saputo Dairy Products
Alberta Institute of Agrologists	Canadian Society of Animal Science	Intercity Packers Ltd.	Select Ready Foods Inc.
Alberta Lamb Producers	Capital Packers Inc.	International Farm On Foundation	Siwin Foods Ltd.
Alberta Milk	Cargill Limited	JBS Food Canada Inc.	Southern Alberta Institute of Technology
Alberta Pork Producers Development Corporation	Centennial General Partner Inc.	Kitchen, trade name of Tag Along Culinary Ltd.	Spoletini/Palumbo Inc.
Alberta Science and Technology Leadership Foundation	Champion Petfoods (GP) Ltd.	Kneehill County	Stretch Farms Ltd.
Alberta Sheep Breeders' Association	Clear Lake Colony Farming Co. Ltd.	Kolk Farms Conrich Ltd.	SunGold Speciality Meats
Alberta Turkey Producers	Crystal Springs Cheese	Lethbridge College	Sunworks Farm (2013) Ltd.
Animal Nutrition Association of Canada	Delizia's Pasta Ltd.	Lilydale Inc.	Trochu Meat Processors Ltd.
APC Nutrition Ltd.	Delta Genomics Centre	Linus Ag Services Inc.	University of Alberta
AW Quality Meat Processing Inc.	Dog's Choice Food Ltd.	Lombard Brothers Incorporated	University of Calgary
Bashaw Meats and Sausage Ltd.	Economic Development Alliance of Southeast Alberta	Maple Leaf Foods Inc.	University Of Guelph
BHJ Canada	Edmonton Northlands	Mountain Top Foods Ltd.	University of Saskatchewan
Big Chief Meat Snacks Inc.		Nagel & Co. Veterinary Services Ltd.	Veterinary Agri-health Services Ltd.
Bison Producers of Alberta		National Cattle Feeders' Association	Warburg Colony Farming Co. Ltd.
		Natura Biologics Inc.	West Coast Reduction Ltd.



# ALMA

Alberta Livestock  
and Meat Agency Ltd.

**A Provincial Government Agency**

---

**ALMA.ALBERTA.CA**

1003 Ellwood Road SW  
Edmonton, Alberta T6X 0B3

**P** 780.638.1699

**F** 780.638.6495

info@almaltd.ca