

AgTech

As a leader in agriculture and home to prominent agricultural research and academic institutions, robust talent pool, growing technology sector, and large-scale agribusiness corporations, Alberta is well poised to be a global leader in agricultural innovation.

With a thriving ecosystem of research facilities, incubators and partners, businesses can accelerate their technologies in the province. A report by THRIVE saw that majority of Albertan farmers are willing to adopt new solutions before or as soon as they reach the market. Alberta is the land of opportunity for the future of technology in agriculture.

The Numbers



41,505
Farms in Alberta



17M
Hectares of farmland in Alberta.



680K
Hectares of irrigated land.



\$16.1B
Alberta's agri-food exports in 2022



22
Research and innovation facilities

The Opportunity

As of 2023, the province has seen over **\$72M venture capital investment** in the **agribusiness sector**.



23%

Alberta's combined federal-provincial business tax rate is lower than that of 44 U.S. states



15 FTA's*

Canada is the only G7 country with preferential market access to over 1.5 billion customers in 51 countries

*free trade agreements



5th

Canada is the fifth-largest agricultural commodities exporter in the world

AgTech Incubators and Accelerators



PLUGANDPLAY



THRIVE
by SVG VENTURES

Company Highlight



abacusbio.

World-leading agri-science consultancy opened its first North American office in Alberta. They specialize in animal and plant genetics, data science, economics, and digital technology applied to agriculture.



WYVERN

They collect high-quality, high-resolution hyperspectral imaging from space. Wyvern's data allows for innovation and breakthroughs in a wide range of domains, including agriculture, environmental monitoring and natural resource management.



AlphaPhenomics



HerdWhistle™

Alpha Phenomics and HerdWhistle Technologies have partnered to revolutionize how the livestock sector leverages cutting-edge technology for enhanced management and productivity



Verge

Farmers use their product, Launch Pad, to build interactive field maps and equipment paths to identify the best in-field routes for their equipment and reduce in-field decision making. Verge is accelerating the transition to autonomous farming. John Deere is one of their featured customers.



UFA is one of Canada's largest and most dynamic co-operatives. With 34 farm and ranch supply stores and an e-commerce platform serving 120,000 members, they support farmers and ranchers by accelerating commercialization of the most innovative AgTech technologies.



A part of the Telus Agriculture family, Decisive Farming is a technology solution that manages farm data and analytics.

Post-Secondary Institutions Supporting AgTech Implementation

Lakeland College

- 3,700-acre Student-Managed Farm
- Dairy Learning Centre with robotic milking and feeding systems
- Bachelor of agriculture technology

OLDS COLLEGE OF AGRICULTURE & TECHNOLOGY

- 3,600-acre Smart Farm
- Olds College Centre of Innovation (OCCI)
- Technology Access Centre for Livestock Production

NORTHWESTERN POLYTECHNIC

- National Bee Diagnostic Centre (NBDC)
- Agriculture and Biosciences Applied Research Centre

Lethbridge College

- Centre for Applied Research, Innovation and Entrepreneurship (CARIE)
- Mueller Irrigation Research Group and 385-acre irrigated research farm
- Integrated Agriculture Technology Centre & 20,000-sq ft controlled-environment agriculture

UNIVERSITY OF ALBERTA

- Dairy, Swine, and Poultry Research and Technology Centres
- Livestock Gentec Centre of Excellence
- Agri-Food Discovery Place
- Institute for Cellular Agriculture

Young & Educated Talent



Research Capacity

Alberta has more than 22 research and innovation facilities specializing in crops and cereals, poultry and swine research, agronomy, biomaterials, food safety, and others.



Young & Highly Skilled Workforce

Alberta has one of the highest proportions of workers under the age of 45. The province is home to a highly educated workforce and several post-secondary institutions that specialize in agriculture, science, and engineering.

Precision Irrigation and Water Management



Provincial Support

- Since 2020, almost \$933 million has been invested in irrigation expansion and modernization.
- 1.8 million irrigated acres (729,000 ha) and another 108,000 acres (44,000 ha) under construction.
- Irrigated land represent 4.4% of the province's total cultivated land base and generated 27.3% of the total primary agricultural sales in Alberta.
- Annually contributes \$5.4 billion to provincial GDP and supports 46,000 full-time equivalent positions.

Innovative Partners



Pan Canadian Smart Farm Network

A network of Smart Farms, led by Olds College, that are building a collaborative framework to help accelerate the development and adoption of agriculture technologies across Canada.



Alberta Innovates

Offers support to companies in the form of funding programs, business advice, and network connections to further innovations that benefit people, protect the environment, and help diversify the economy.



AltaML

A leading developer of AI-powered solutions, AltaML is bringing transformative changes and sustainable practices to the forefront of the forestry and agriculture industry.



Amii

Amii partners with companies across all industries, including agriculture, to help drive innovation strategy and guidance when it comes to AI-solutions.

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