



Funding Opportunities

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Alberta Innovates Background

About Us



11 Locations
1 million+ sq ft
of lab space
600+ acres of
research
farmland



Employees
589 FTEs
Including 73
PhDs



2 Subsidiaries
InnoTech Alberta Inc.
C-FER Technologies
(1999) Inc.



Operating
Budget
\$250 million



Edmonton



Devon



Vegreville



Calgary



100 Years of Driving Innovation



H. M. Tory (1919)



Dr. K. Clark (1920)



**Scientific and Industrial Research
Council of Alberta (1921)**

Foster and accelerate research and innovation to benefit citizens and drive economic growth

Our Role



**CONVENOR &
CONNECTOR**



**PARTNER &
COLLABORATOR**



**FUNDER &
SERVICE
PROVIDER**

Value of our Portfolio



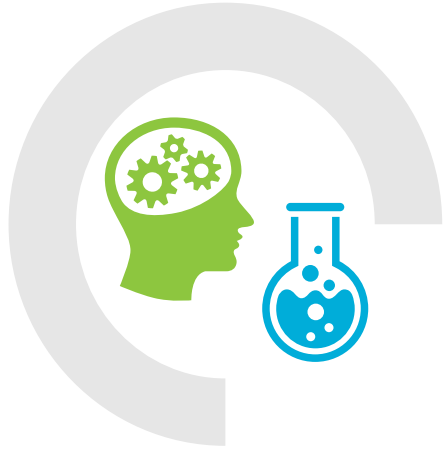
1,320 active projects across
business lines and sectors

Total portfolio value

\$1.2 billion

in 2021-22

Driving Innovation for all Albertans



2,373

*New Innovations
by clients supported directly and
indirectly by Alberta Innovates*



\$58.5 M

*Additional funding raised
by researchers and trainees supported
by Alberta Innovates*



1,415

*Clients supported
by Alberta Innovates
(students/trainees, researchers,
companies, entrepreneurs and others)*

995

*Clients supported by
C-FER Technologies
and InnoTech Alberta*

Organizational Structure



+



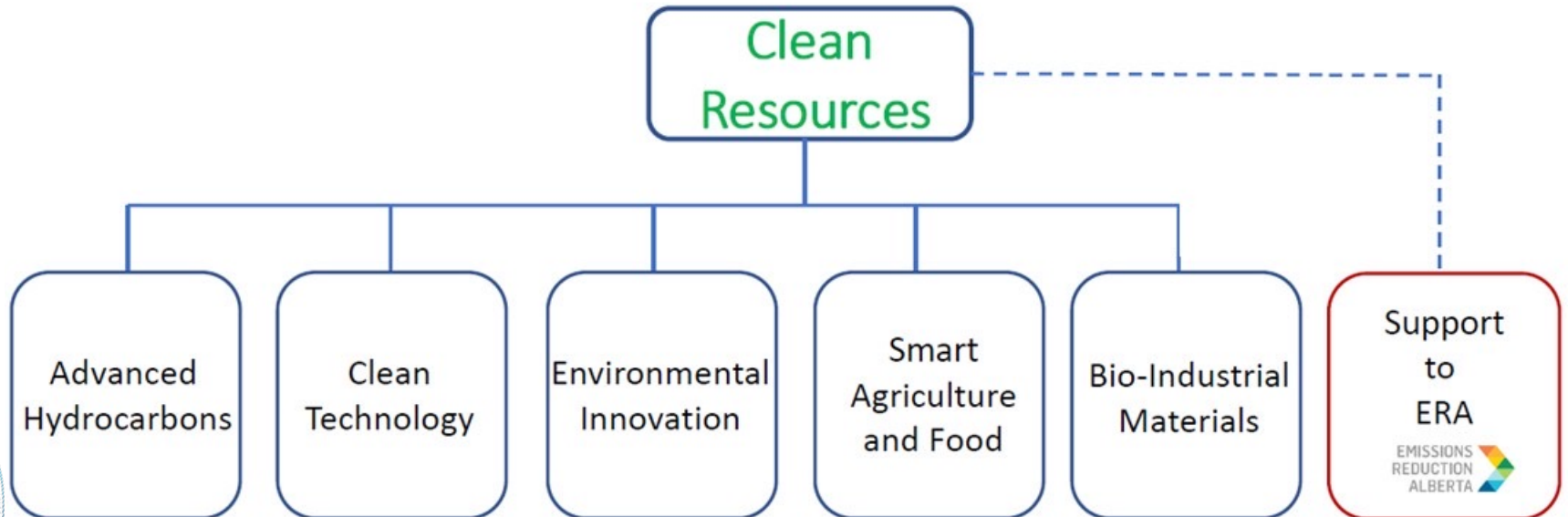
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Clean Resources Programs

Advanced Hydrocarbons

- **Cleaner Hydrocarbon Production**

- Recovery Technologies
- Methane Emissions Reduction
- Digital Oilfield

- **Innovative Hydrocarbon Products**

- Partial Upgrading
- Bitumen Beyond Combustion

Clean Technology



CCUS & Hydrogen

- CCUS
- Hydrogen



Bioenergy & Circular Economy

- Renewable Fuels
- Circular Economy
- Waste Conversion



Renewable & Alternative Energy

- Grid Modernization
- Energy Storage
- Electricity Generation



Critical Minerals & Emerging Technology

- Critical Minerals
- Rare Earth Elements
- Mining & Extraction Technologies
- Emerging Technologies

Hydrogen Centre of Excellence

Ecosystem

- Opportunity Analysis



- Public Awareness



- Partnership Building



Technology

- Production



- Transportation/
Distribution



- Carrier/Storage



- End Use/Markets



Service

- Pilot Facilities



- Testing Services



- Codes + Standards



Environmental Innovation

Supporting investments leading to environmental stewardship, conservation of biodiversity and sustainable & safe water supplies

- **Land & Biodiversity Program**

- Site Closure & Reclamation
- Tailings
- Biodiversity
- Environmental monitoring

Environmental
Innovation

- **Water Innovation Program**

- Water Supply & Watershed Management
- Healthy Aquatic Ecosystem
- Water Technologies
- Water Quality Protection



Land Reclamation & Remediation



Biodiversity



Water Supply and Watershed Management

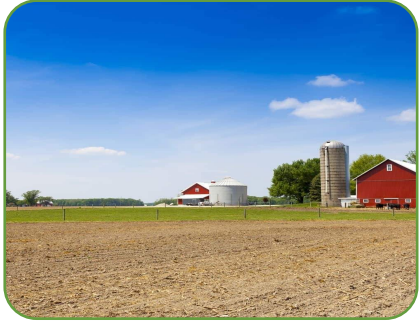


Water Use Conservation, Efficiency, & Productivity

Alberta's Agri-Food Industry



**Over
50.3 million
acres of
farmland**



**Over
40,600 farms**



Over \$30B in sales

\$14.8B in farm
cash receipts
(+9.8%)

\$15.8B in food and
beverage
manufacturing
sales (+2.0%)



\$11.6B in agri-food
exports (-2.1%)

\$5.3B primary (-
9.4%)

\$6.3B value-added
(+4.8%)



**Employs over
77,000 Albertans
(+2.1%)**

49,200 primary

28,000 food and
beverage
manufacturing

Agri-Food Innovation

Program	When	What	Who & Terms
Agri-Food and Bioindustrial Innovation Program (ABIP)	Continuous Intake Opened in Q2, 2022	Supports the development and advancement of technologies that increase productivity, enhance competitiveness, boost the value of agriculture and forestry commodities, and lower greenhouse gas emissions.	PSI: Non-PSI: SMEs and MNEs Up to \$500,000 Requires 25% cash or in-kind match Term up to Three Years
Chronic Wasting Disease (CWD) Research Program	Scheduled intake Annual Call Q2	Develop innovative approaches that contribute to the diagnosis, prevention and cure of CWD disease, and explore opportunities for new tests to be developed in Alberta. The Program supports collaborative research directly related to understanding and managing CWD, a prion disease that affects deer, elk and other cervids.	PSI: 100% Up to \$250,000 Requires 25% cash matching Term up to Two Years
Agriculture Funding Consortium (AFC)	Scheduled Annual intake	Discover – Use Spectrum: Projects range from early-stage research to technology transfer and allows AI to leverage funding are partake in promising, yet higher risk projects	PSI: Non-PSI: SMEs and MNEs Variable term and funding
Ecosystem Development Partnerships (EDPP) Program	Scheduled Annual intake	Supports entities to enhance the research and innovation ecosystem across multiple business units at Alberta Innovates. Bridge gaps between technology development and commercialization and adoption in the agri-food sector.	PSI & SME's No dollar limit Term up to Three Years

Bio-Industrial Materials

Sustainable Biomass



Underutilized Hardwood



Agricultural Residues



Waste Streams of Industrial Crops

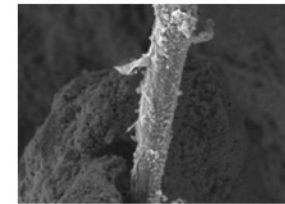
Low Carbon Material



Biofibre Composite

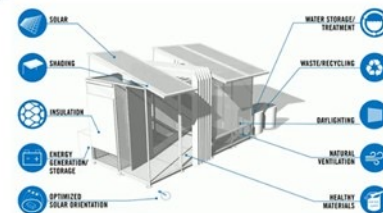


Biobased Polymer

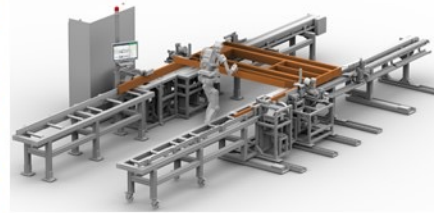


Biobased Concrete

Green Construction



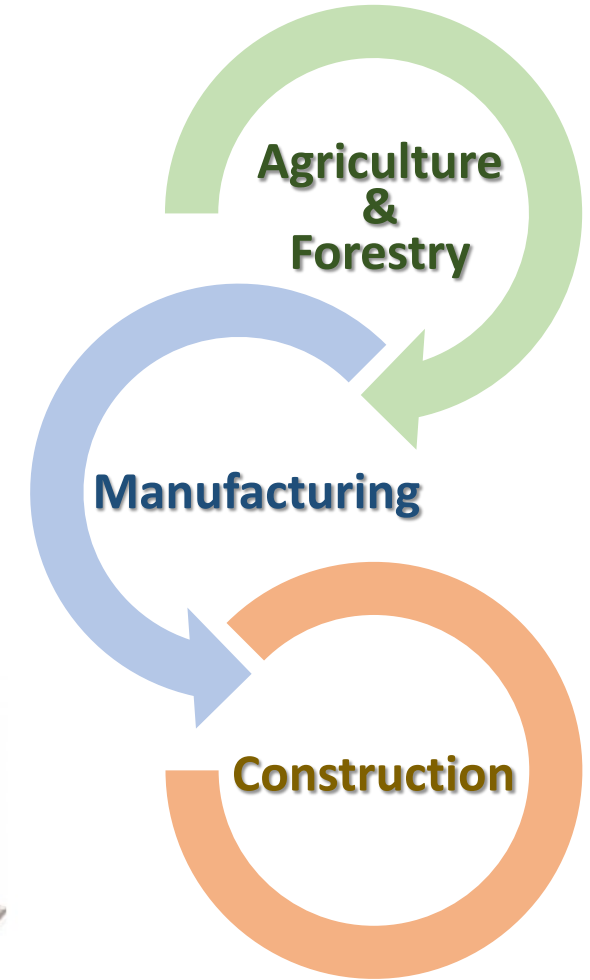
Sustainable Building



Construction Industrialization



Mass Timber System



Biofibre Utilization

Value-Added Biomass

Green Construction

How We Fund

Funding Requirements

- Must Have

- Alignment with AI Clean Resources program(s)
- TRL 3-7 (at start of project)
- Grants up to 50% of project cost, typically \$100k to \$1M
- Evidence of market pull
- Commercial potential in Alberta

- Should have

- Partnerships
- Jobs and HQP training in Alberta
- **Agnostic to applicant type (Academia, SME, MNE, NFP, etc.)**
- **Fund Projects, not Companies or Program**

Evaluation Criteria

Innovation	Execution	Benefits
Capital Project Problem and Project Scope	Work Plan, Tasks, and Deliverables	Economic Benefits to Alberta
Market Opportunity and Competitive Analysis	Budget and Funding Commitment	Environmental Benefits
Commercialization Pathway	Project Team	Social Benefits
	Risk Assessment and Mitigation	

Funding Approach

- Open Competition
 - GoA initiatives via restricted grants
 - E.g. TIER Economic Recovery, Hydrogen Centre of Excellence
 - AI-led strategic initiatives
 - E.g. Carbon Fibre Grand Challenge (CFGC), Digital Innovation in Clean Energy (DICE)
- Continuous Intake
 - Our typical approach for Base funding
 - We're ready to review when you're ready to submit
 - Best to start with a phone call / email

Funding Process – Open Competitions

Step	Applicant	AI	Avg Duration
EOI Form	X		8 weeks
EOI Form Evaluation		X	5 weeks
Full Proposal	X		6 weeks
Full Proposal Evaluation		X	6 weeks
Contracting	X	X	6 weeks
TOTAL			31 weeks

- Typically larger funding opportunities
- Smaller funding may skip EOI stage

Funding Process – Continuous Intake

Step	Applicant	AI	Avg Duration
Initial Meeting	X	X	1 hour
Intake Form	X		1 – 3 days
Intake Form Evaluation		X	1 week
Full Proposal	X		2 – 3 weeks
Full Proposal Evaluation		X	4 – 8 weeks
Contracting	X	X	2 – 8 weeks
TOTAL			9 – 20 weeks

Faster if $\leq$ \$200,000 Ask, quicker Legal turnaround

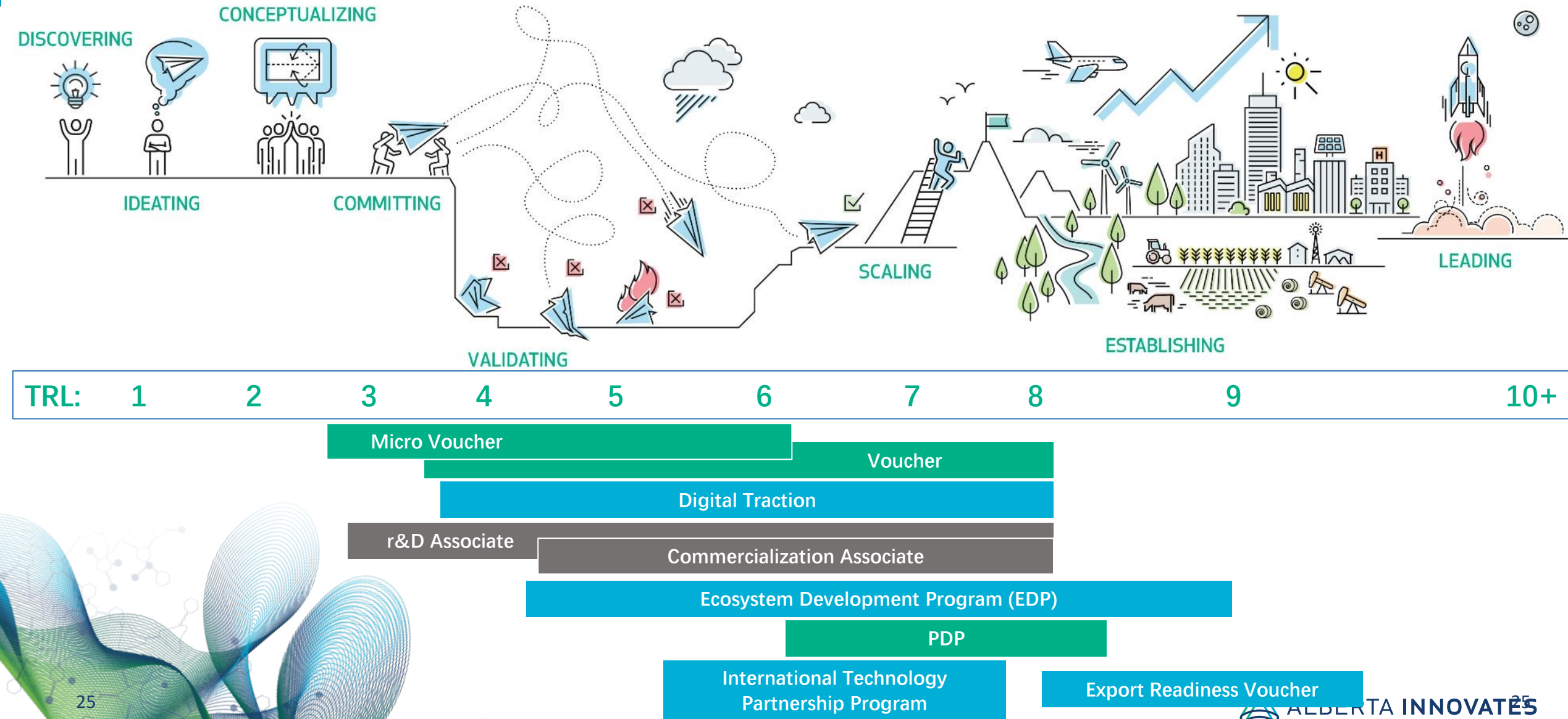
Contact Information

Portfolio	Contact
Advanced Hydrocarbons & Hydrogen Centre of Excellence	Bryan Helfenbaum
Clean Technology	Heather Campbell
Environmental Innovation	Brett Purdy
Agri-Food Innovation & CWD	Ron Clarkson
BioIndustrial Materials	Liheng Chen

Email: Firstname.Lastname@AlbertaInnovates.ca

Entrepreneurial Investments

El Programs Along the AI Client Journey



EI Programs

Funding & Terms

From a maximum of **\$10,000** to **\$250,000**, depending on the program,
(Applicant contribution 25% - 50%)

Term: **6 – 18 months**
(Depending on the program)

Eligibility

- Alberta-based SME
- Novel technology with an opportunity for intellectual property and commercialization
- TRL 3-9

Objectives

- De-risk and accelerate the development and commercialization of innovative solutions
- Validate product/Market fit
- Support talent acquisition of technical as well as business professionals

Best to connect with a Technology Development Advisor (TDA) to guide you to the right program and review your application before submission

ALBERTA SCALEUP & GROWTH ACCELERATOR PROGRAM

Helping small-medium Alberta companies grow into majors

- Attracting global firms, technologies and investments to Alberta
- Three levels of government investing \$35M through Alberta Innovates

500



TELUS Community Safety
& Wellness Accelerator



THRIVE
by SVG VENTURES

PLUGANDPLAY ALBERTA

SMEs BY THE NUMBERS – 2021-22

Small and medium enterprises supported by Alberta Innovates
(post-investment)



Revenue

\$1 > \$6.⁵⁸

\$1 from Alberta Innovates > \$6.58 in
SME net revenue growth

Investment

86% Private
14% Public

\$ 1.00



Alberta Innovates
Funding to SMEs



\$25.⁶⁴



Follow-on
Investment

Entrepreneurial Ecosystem is an enabler

- **Technology Development Advisors (TDAs)** are connectors.
- TDAs work alongside **Regional Innovation Networks (RINs)** to create a community-based network of programs and services.



Contact Us



SELF-REGISTRATION PORTAL

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