

Calgary in the New Economy
Grow your Career conference

calgary economic development be part of the energy

Calgary Economic Development



Business attraction, expansion & retention



Tell Calgary's story



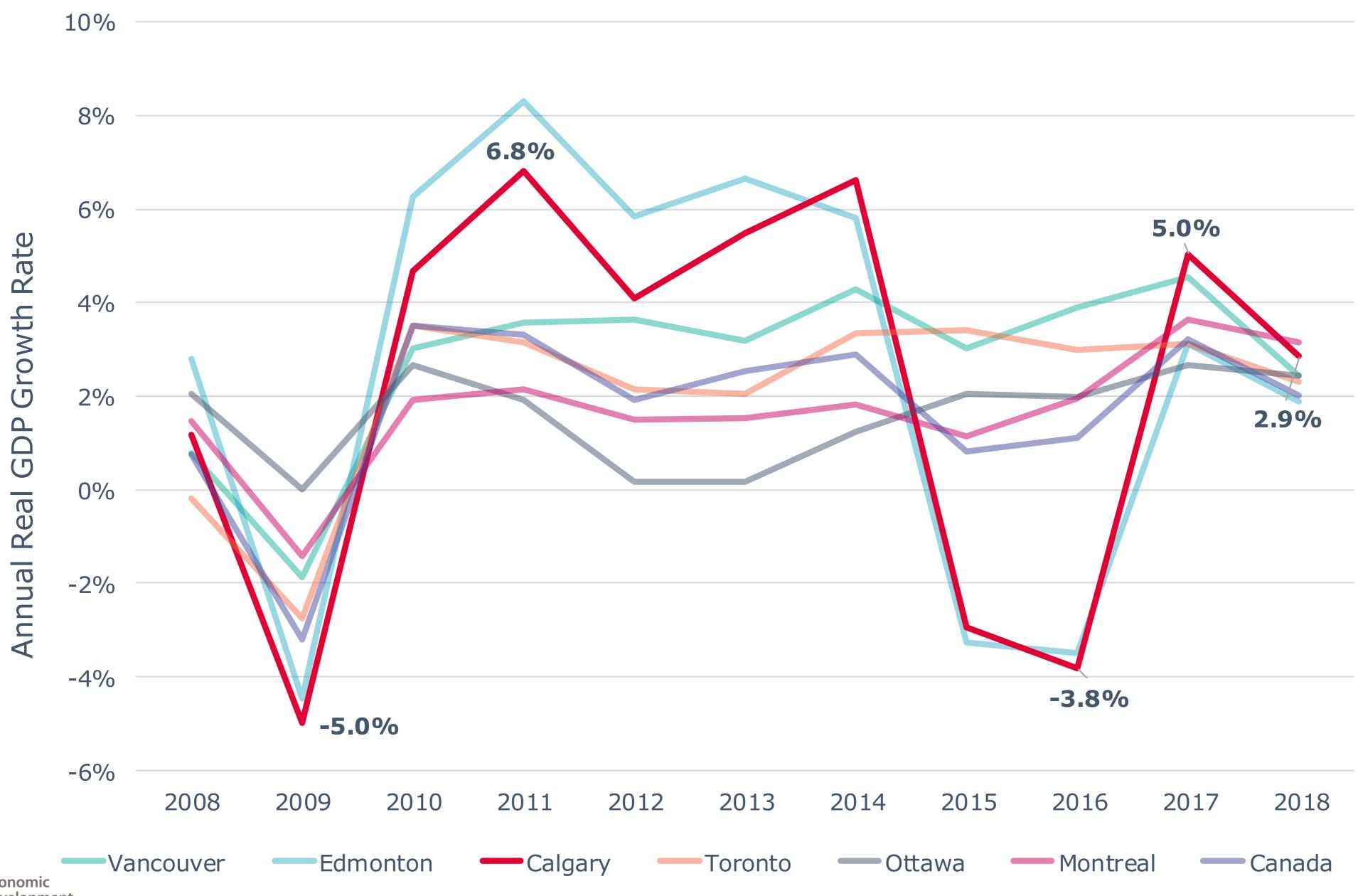
Talent attraction & workforce development



Startup
Calgary & support for the innovation ecosystem

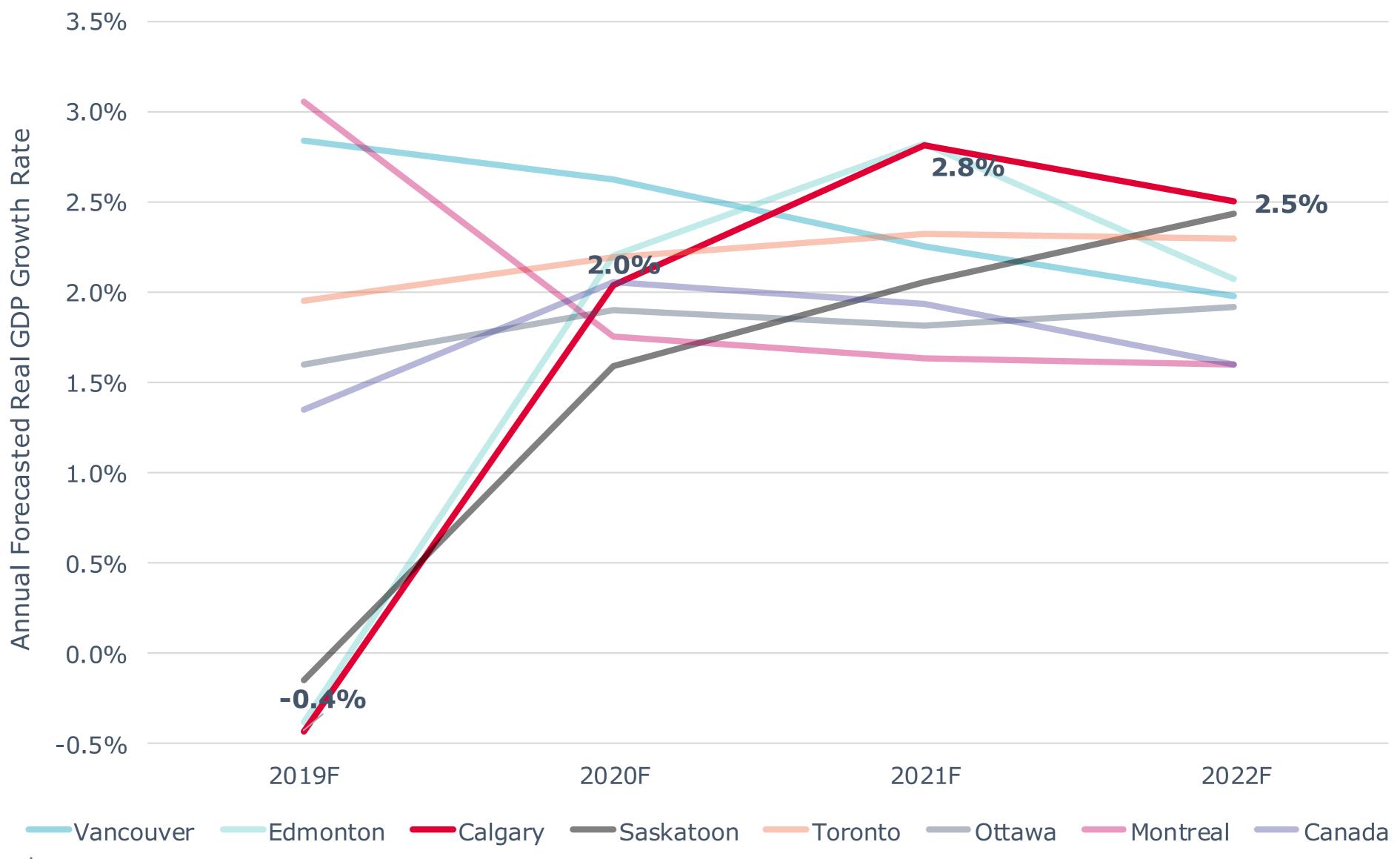


Annual Real GDP Growth Rates Across Canada



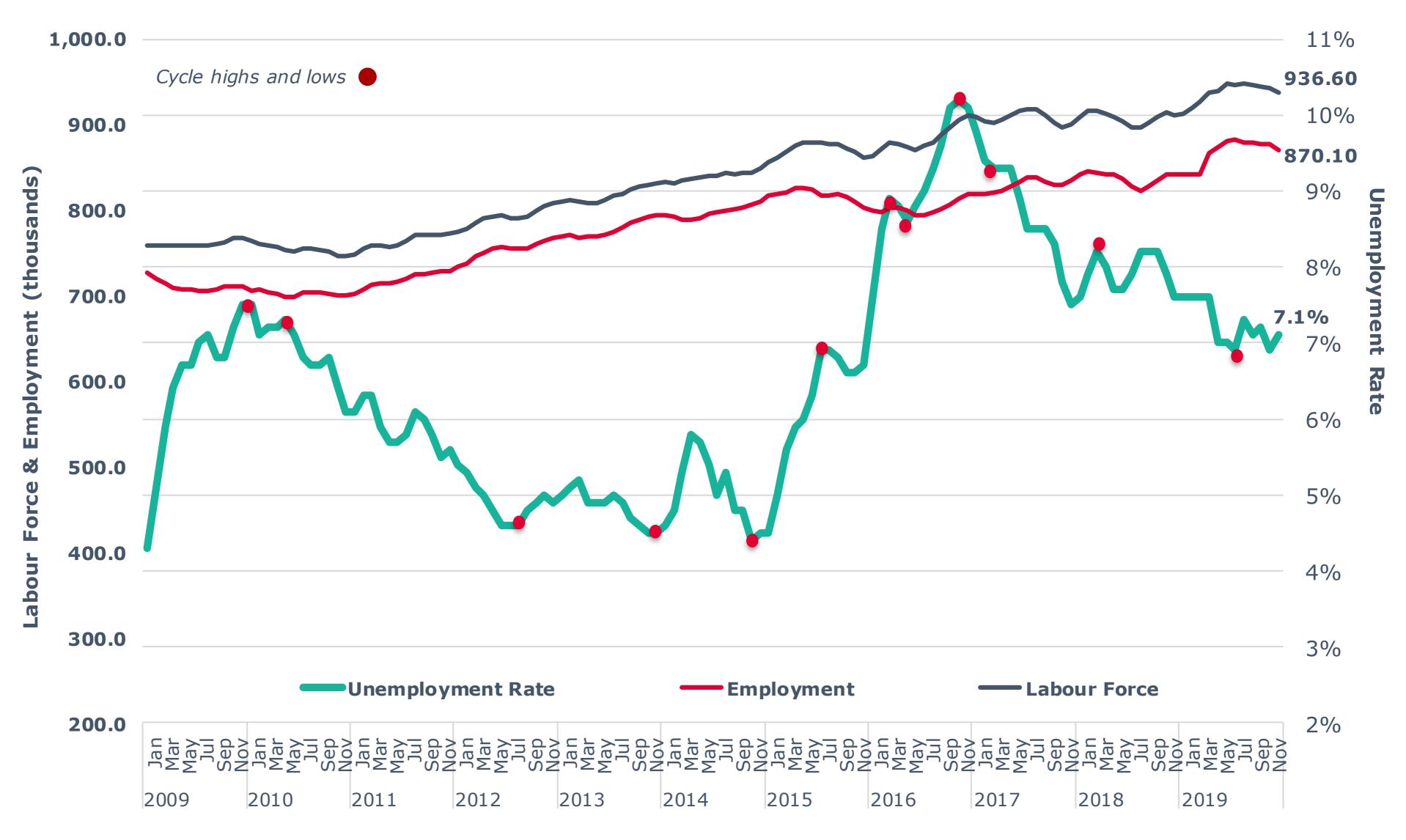


Annual Forecasted Real GDP Growth Rates Across Canada





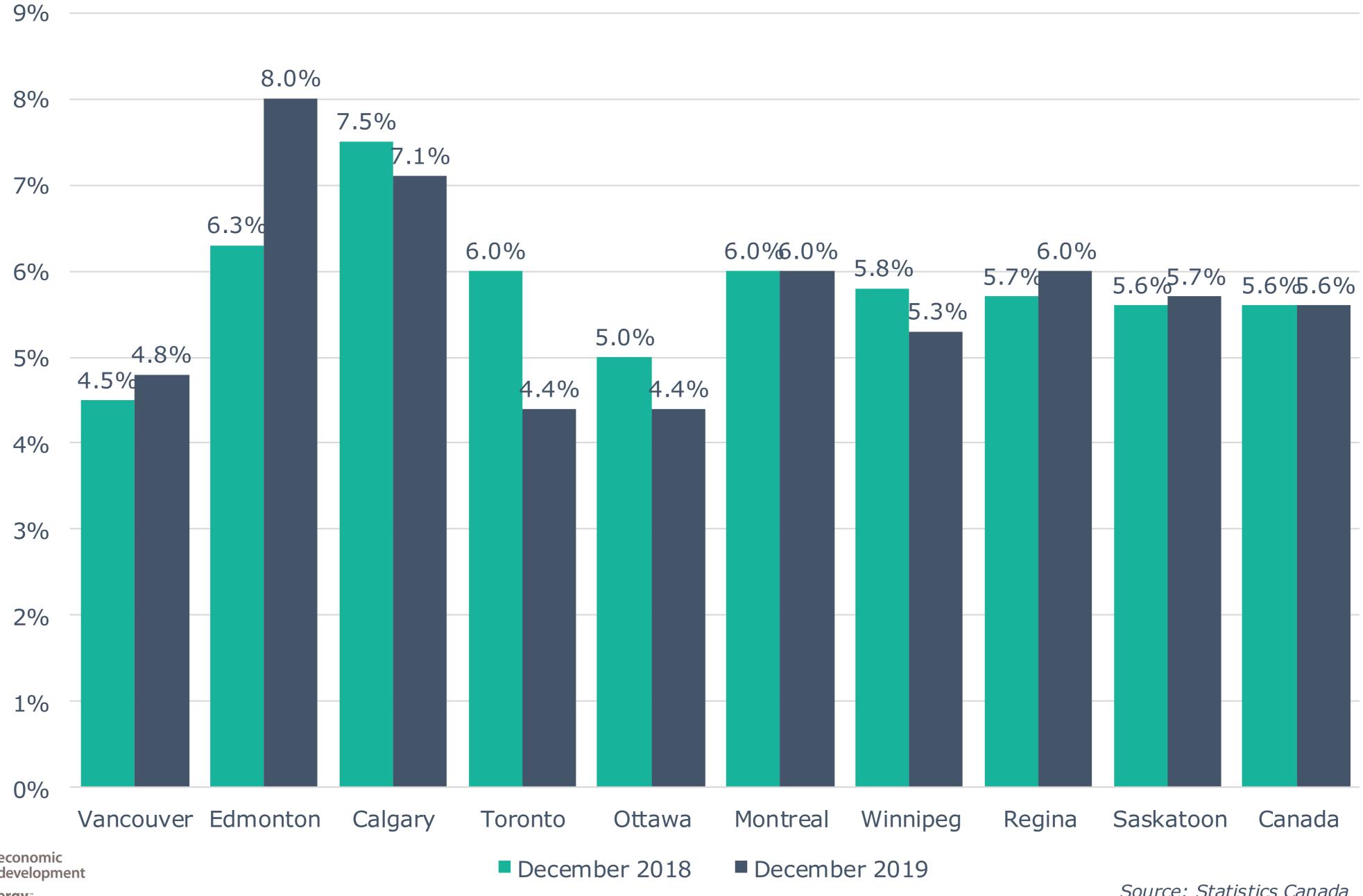
Calgary CMA Historical Unemployment Rate, Labour Force & Employment





Source: Statistics Canada, December 2019

Unemployment Rate Across Canada

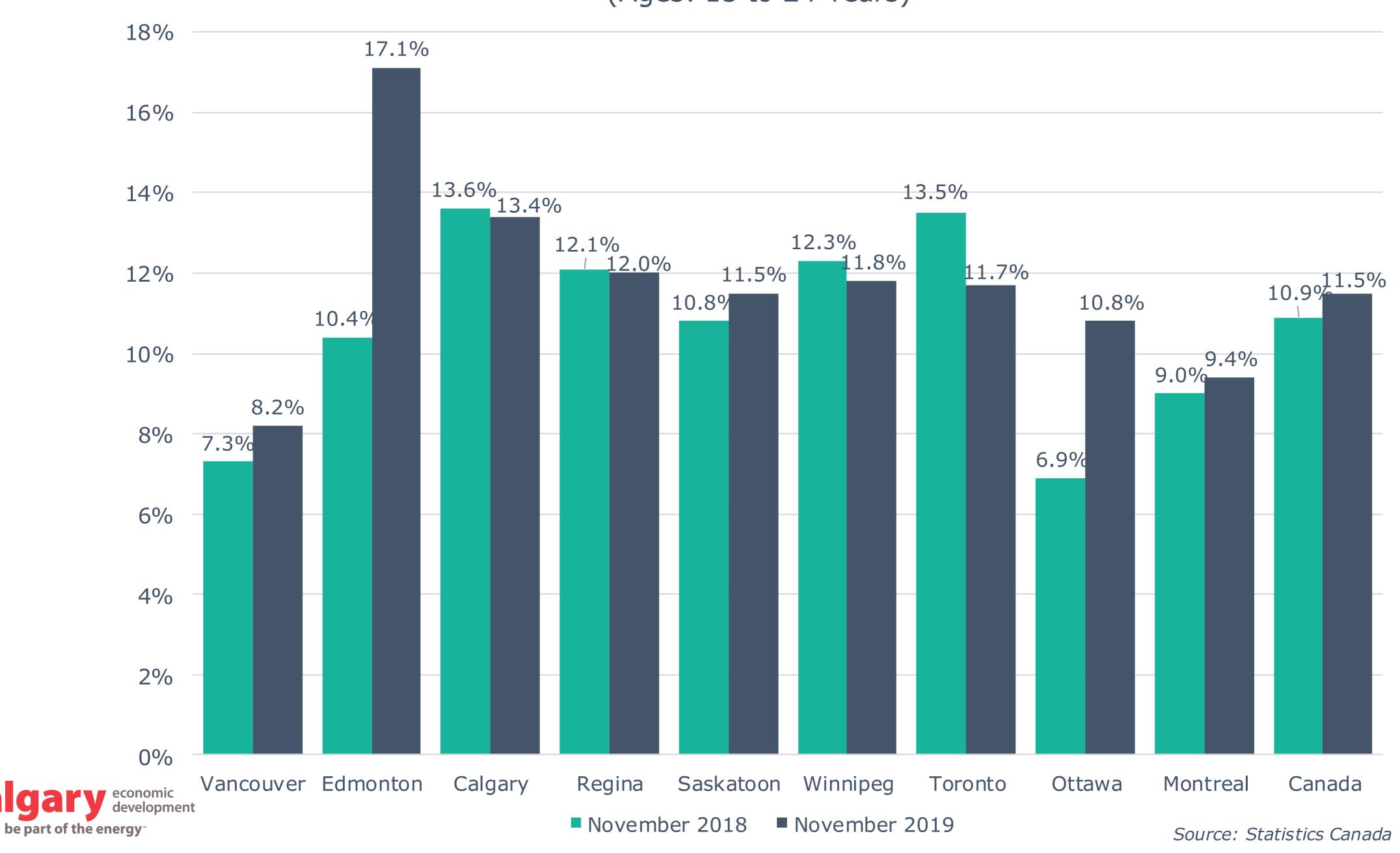




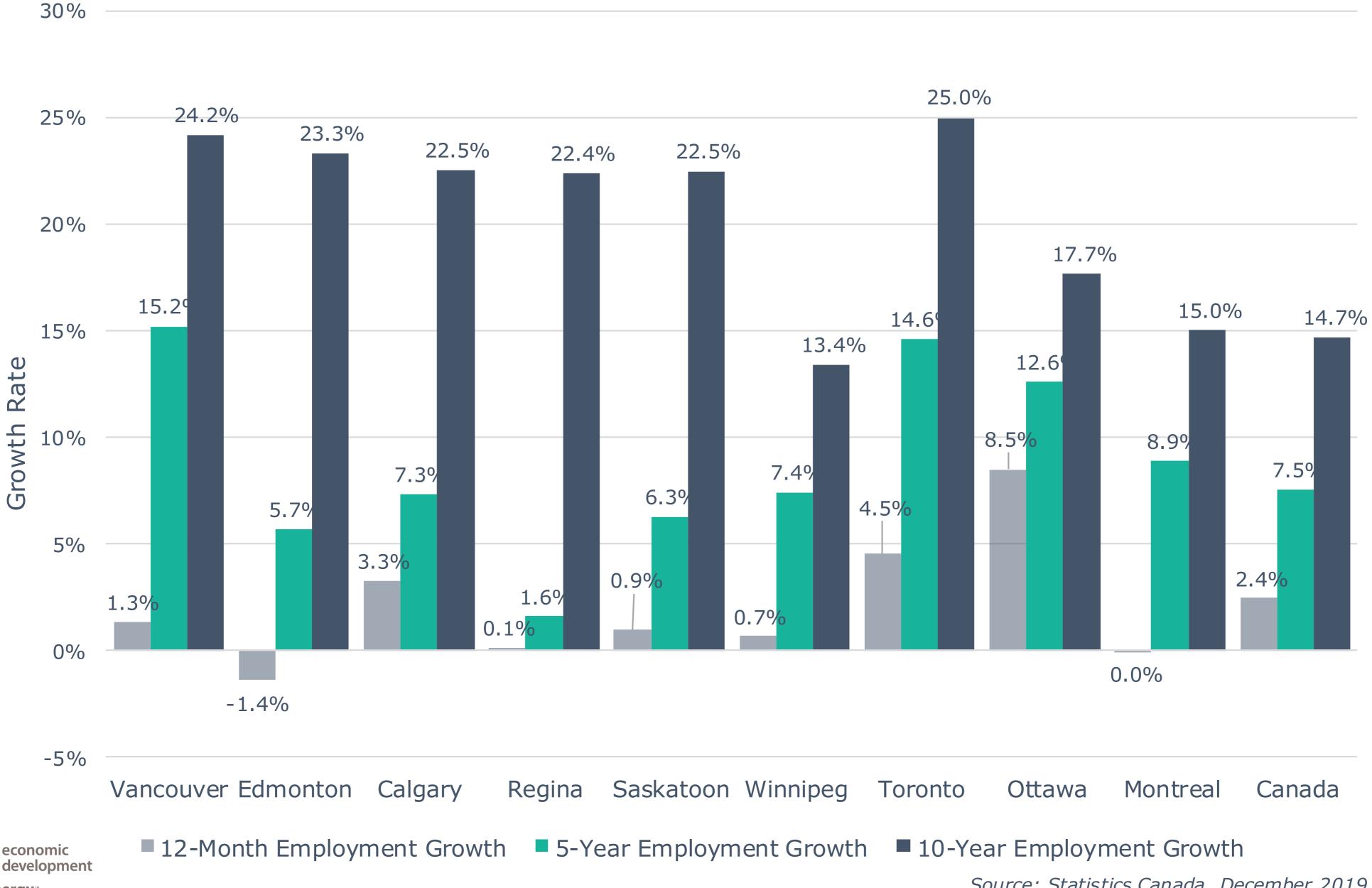
Source: Statistics Canada

Youth Unemployment Rate Across Canada

(Ages: 15 to 24 Years)



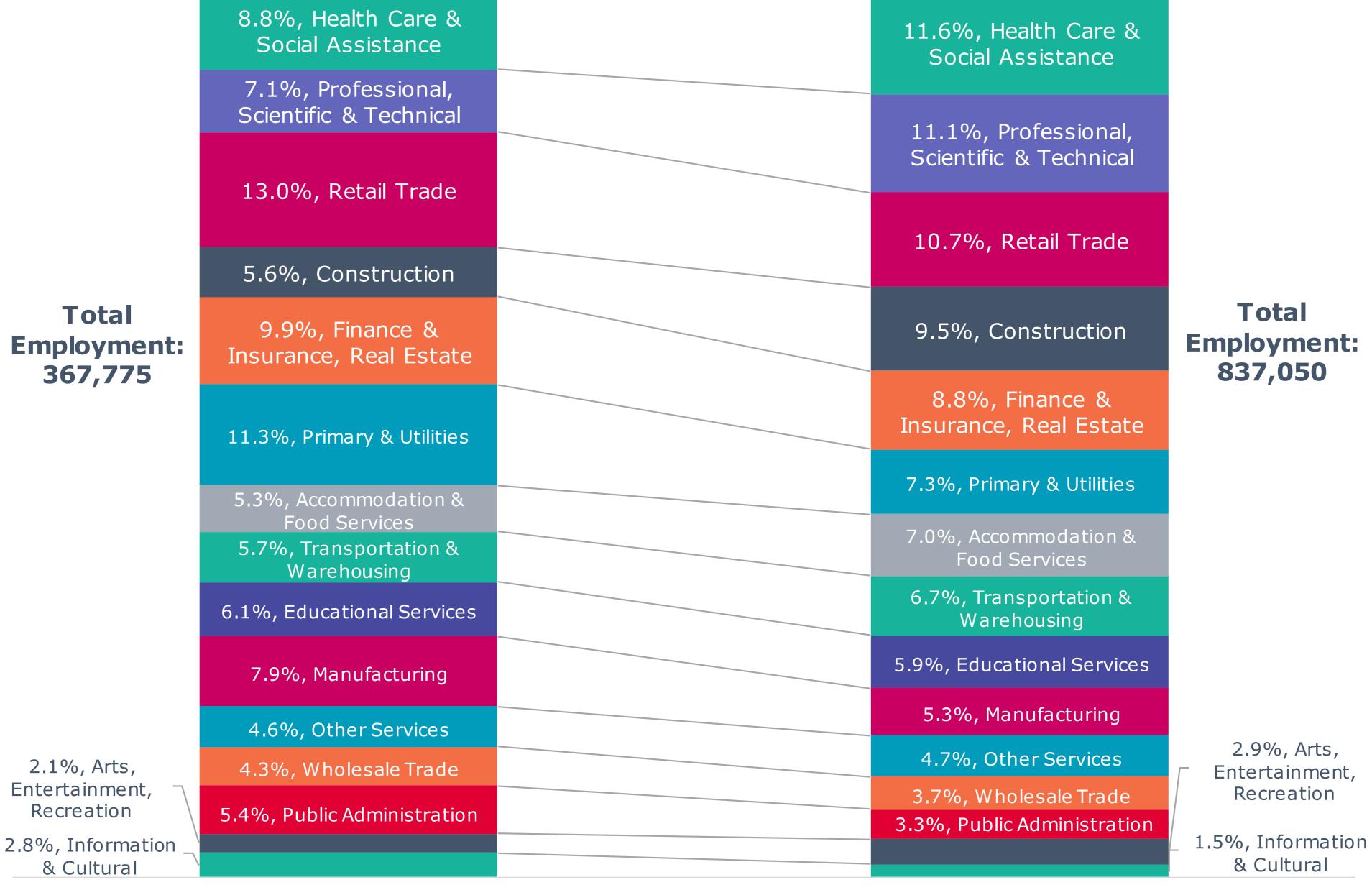
Employment Growth Across Canada





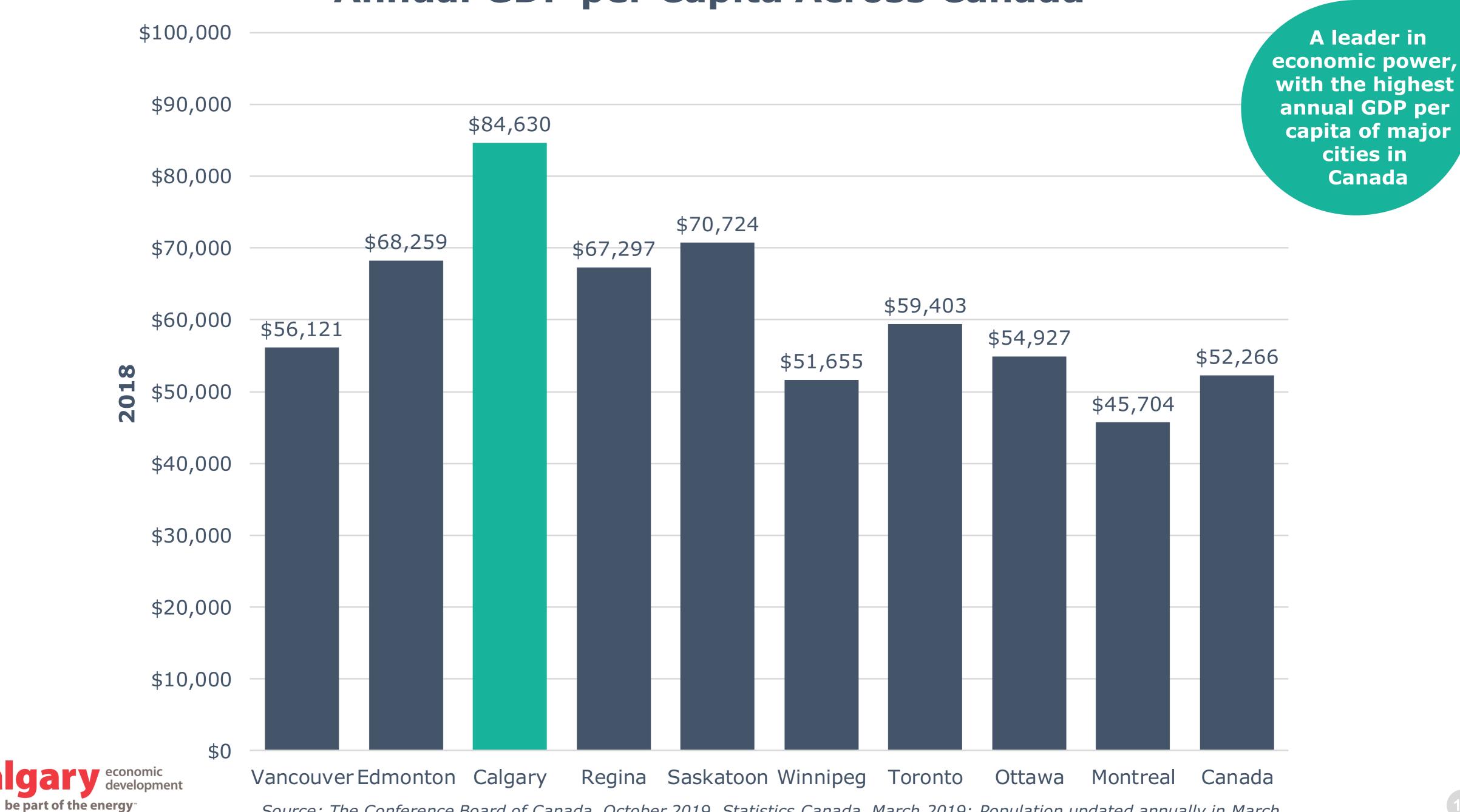
Source: Statistics Canada, December 2019

Calgary Historical Employment by Industry





Annual GDP per Capita Across Canada



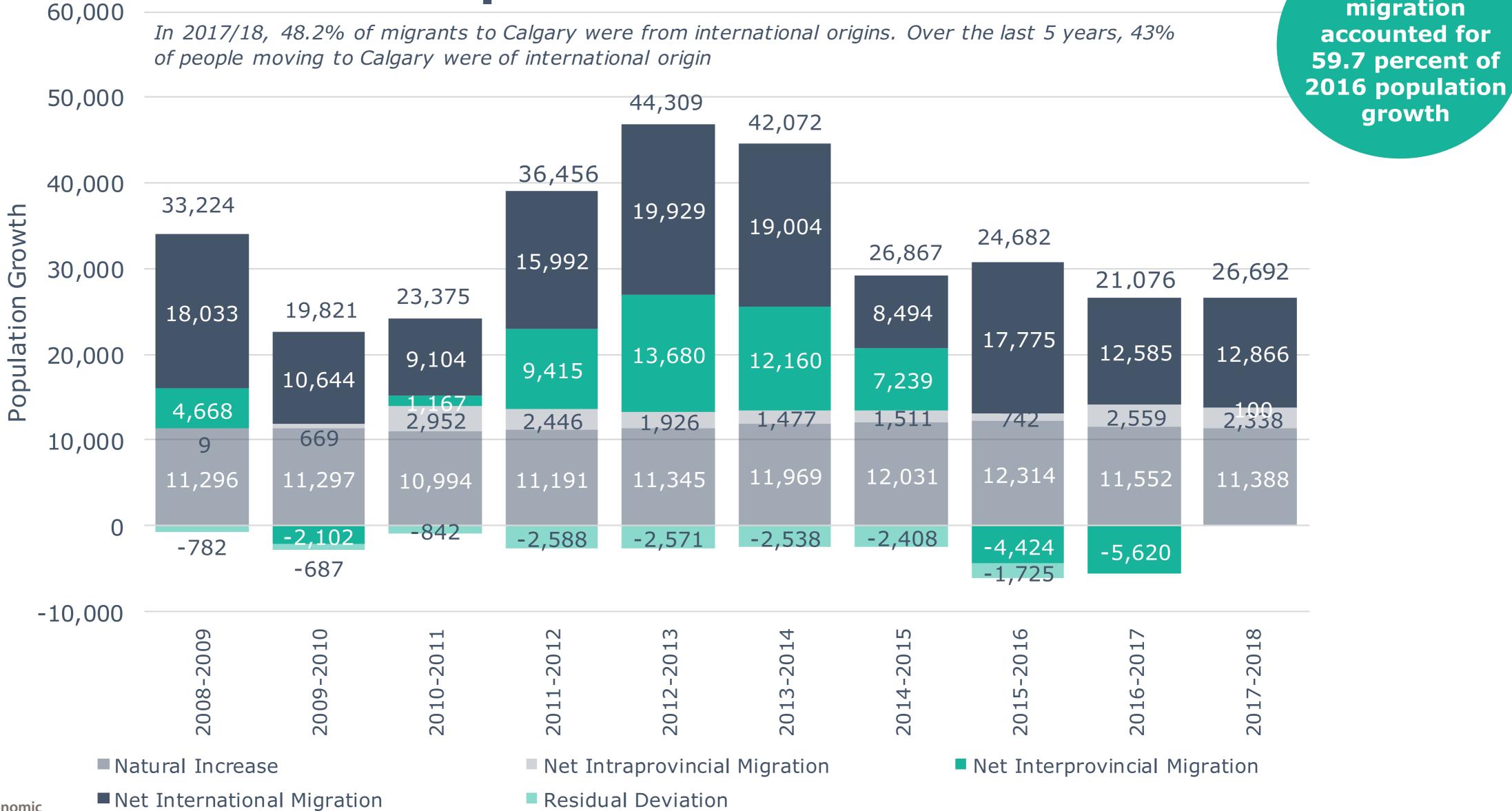
Source: The Conference Board of Canada, October 2019, Statistics Canada, March 2019; Population updated annually in March

A leader in

cities in

Canada

Calgary CMA Components of **Population Growth**





International

migration

accounted for

growth



DIGITAL TRANSFORMATION

ACROSS INDUSTRIES

Artificial Intelligence | Internet of Things | Machine Learning Blockchain AR/VR **AGRIBUSINESS** MANUFACTURING **ENERGY** LOGISTICS LIFE CREATIVE **FINANCIAL SERVICES** SCIENCES **INDUSTRIES** Material optimization Ag tech Digital twin Intelligent transportation Biotechnology Film & TV Fintech Precision agriculture Asset tracking Remote monitoring Fleet optimization Digital animation Cyber security Genomics Next-generation Crop science Clean energy tech customer care Digital supply chain Medical devices Music Digital banking Animal genetics Autonomous and logistics Autonomic operations vehicles automation Calgary Film Centre Identity Imaging Livestock monitoring management Channel management Energy storage Robotics and Health tech Digital media solutions manufacturing Process Connected service Wearable Gaming optimization Electrification Aerospace, defense technology and autonomous systems



FORECASTED DIGITAL TRANSFORMATION SPEND

\$18.4B IN ALBERTA BY 2022

ENERGY

\$4.2 BILLION

Investment in digitization across energy (Power & Utilities, Oil & Gas, etc.) in Canada is forecast to more than \$12 billion through 2022; with \$4.2 billion in Alberta

AGRIBUSINESS

FASTEST GROWING

Agribusiness is forecast to be the fastest adopter of digital, growing by approximately 25% through to 2022 LOGISTICS

\$1.1 BILLION

Forecast to reach \$1.1 billion and growing at a rate of 19% by 2022 LIFE SCIENCES

GROWINGAT 21%

Projected to be \$1.3 billion, growing at an annual rate of over 21% per year

CREATIVE INDUSTRIES

19% OF CANADA

\$2.4 billion will be spent by 2022, approx. 19% of Canada's spend in this sector FINANCIAL SERVICES

\$1.1 BILLION

Forecast to reach \$1.1 billion and growing at a rate of 17% by 2022 MANUFACTURING

GROWING AT24%

\$1.5 billion on digital transformation by 2022, and growing at an annual rate of over 24% per year

Source: IDC Canada, 2019; All percentages are compound annual growth rate (CAGR)

Digital Transformation Spending forecasts were developed in partnership with IDC Canada. They are based on industry classifications provided by Calgary Economic Development and IDC's Digital Transformation Spending Guide (Release Version 1H18).

ECONOMIC STRATEGY

VISION

Calgary is the city of choice in Canada for the world's best entrepreneurs.

We are embracing technology to solve the world's greatest challenges.







CALGARY HAS

DIVERSE EMPLOYERS

AGRIBUSINESS



























LIFE SCIENCES/HEALTH



























FINANCIAL SERVICES









bitcoinbrains



BUILDERS













OTHER & GENERAL









































DEAL FLOW STUDY

TRENDS IN CALGARY



OVERVIEW

- 1,238 Alberta tech companies were identified in the 2018 study
- 62% of all Alberta tech companies and startups are in Calgary
- 52% are scaling



CAPITAL

- 26% of Calgary companies have \$1M+ in annual revenue
- 73% are currently seeking funding
- 76% of the funding has been raised locally (from Calgary based sources); 30% from other parts of Canada; 26% from the US



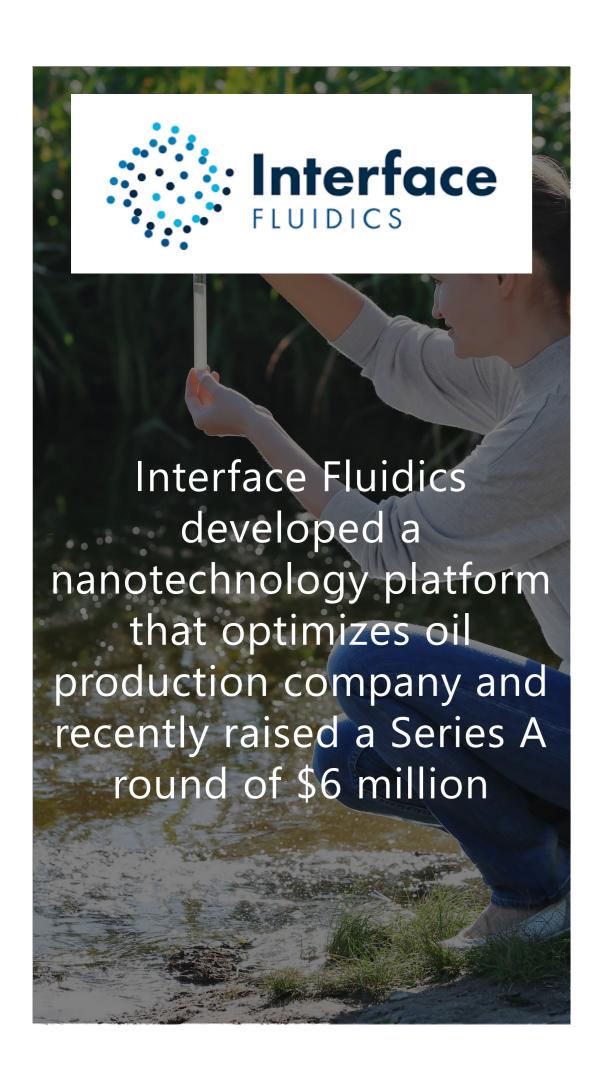
SECTORS

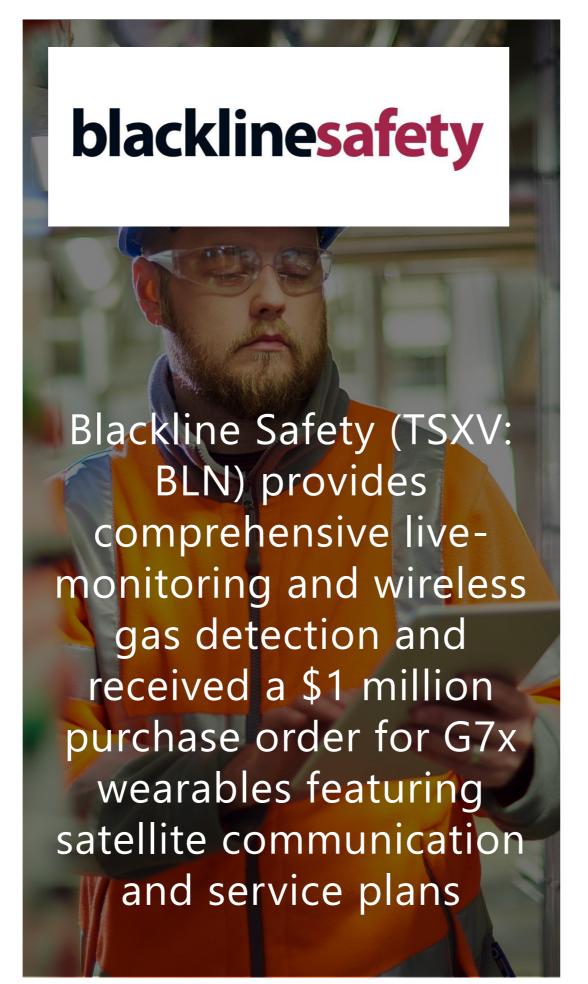
- 92% of Calgary companies sell to private industry and 36% to individual consumers
- 54% have a SaaS offering
- 36% incorporate Al/machine learning in their product
- 30% have participated in an accelerator program

Source: Start Alberta, 2018 Alberta Tech Deal Flow Study

RECENT NOTABLE

ENERGY TECH INVESTMENTS



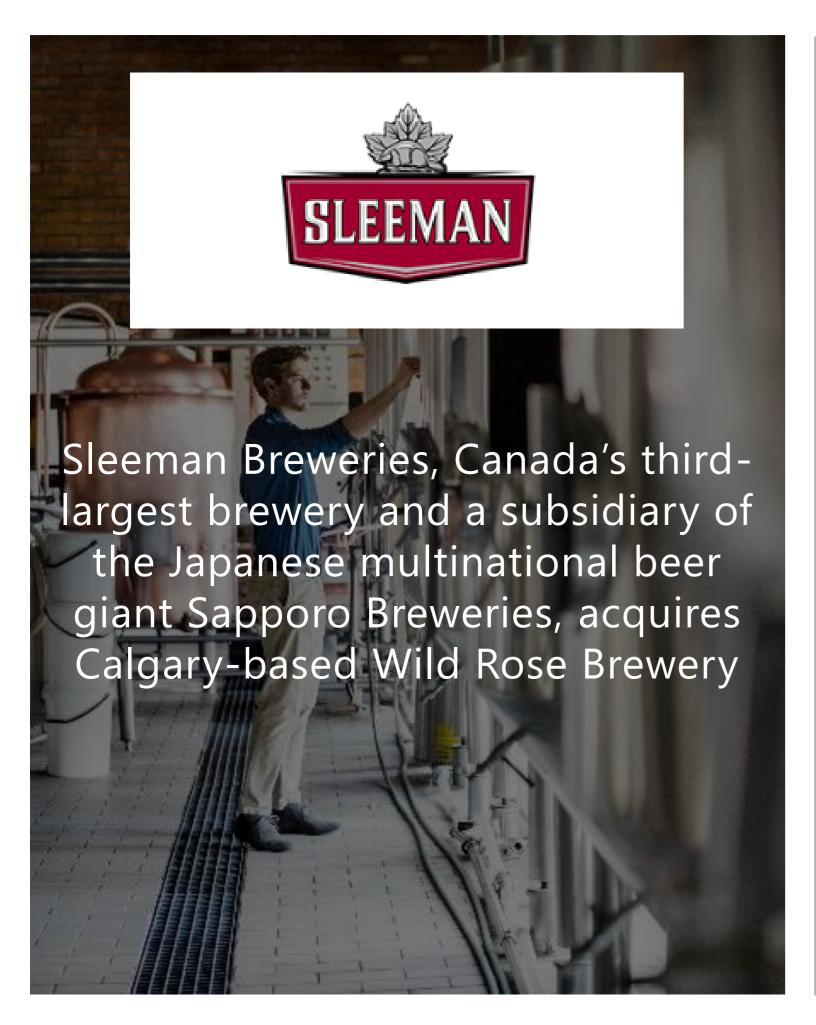




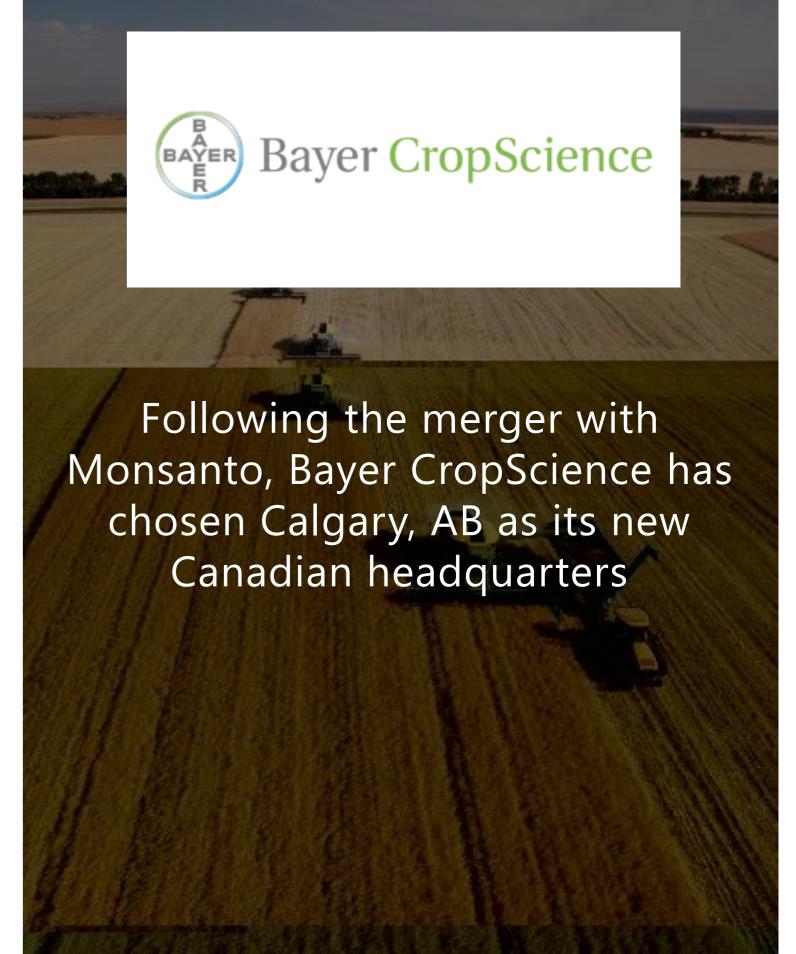


RECENT

AGRIBUSINESS EXPANSIONS

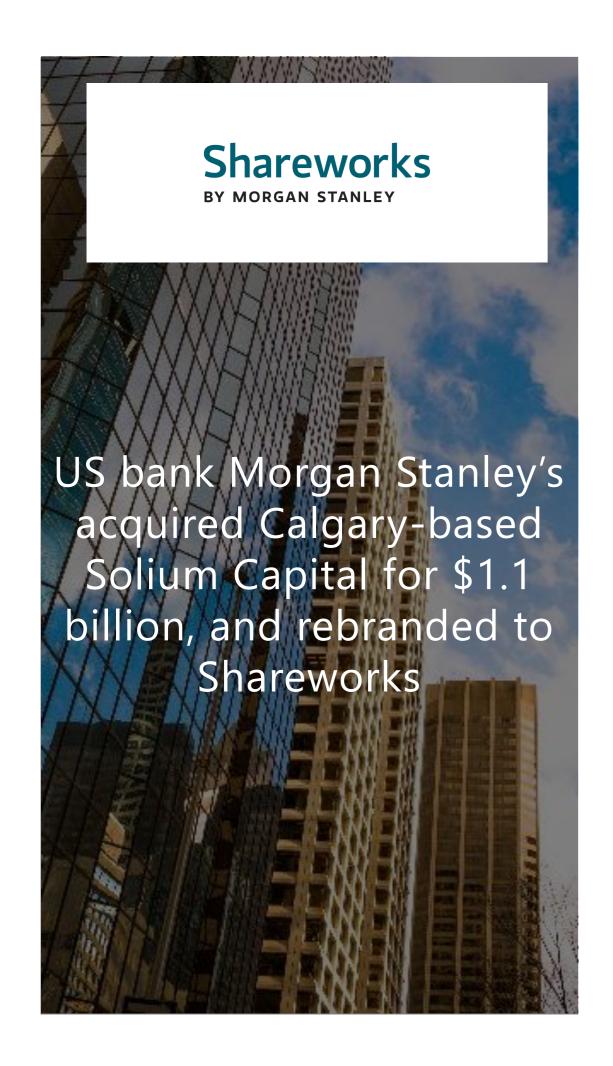


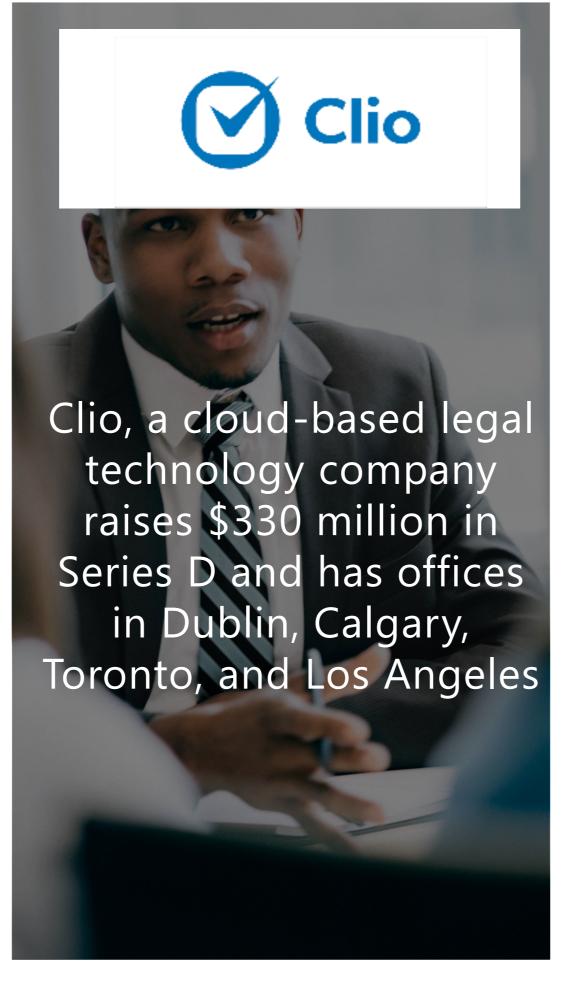


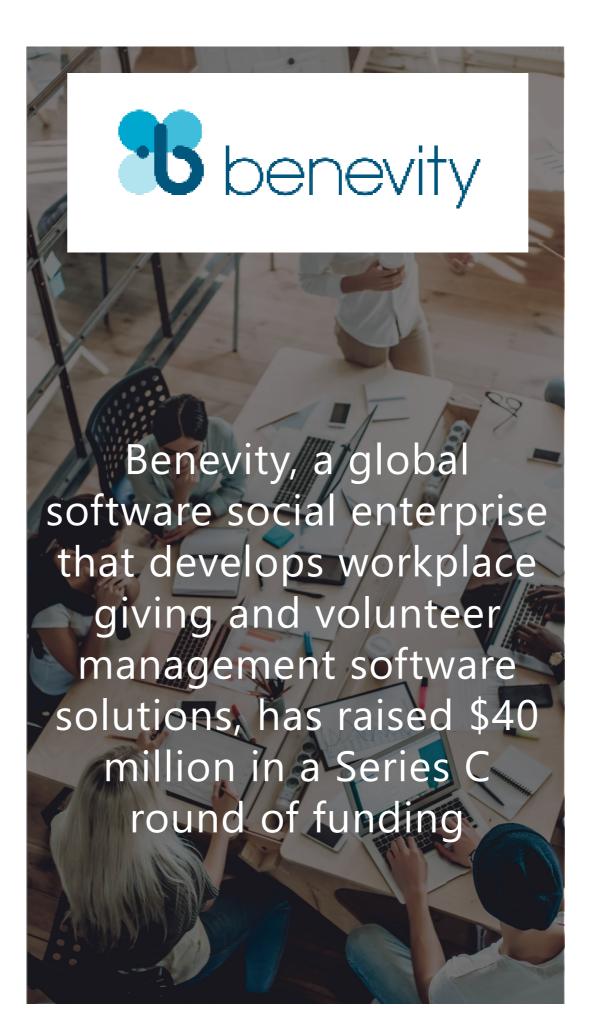


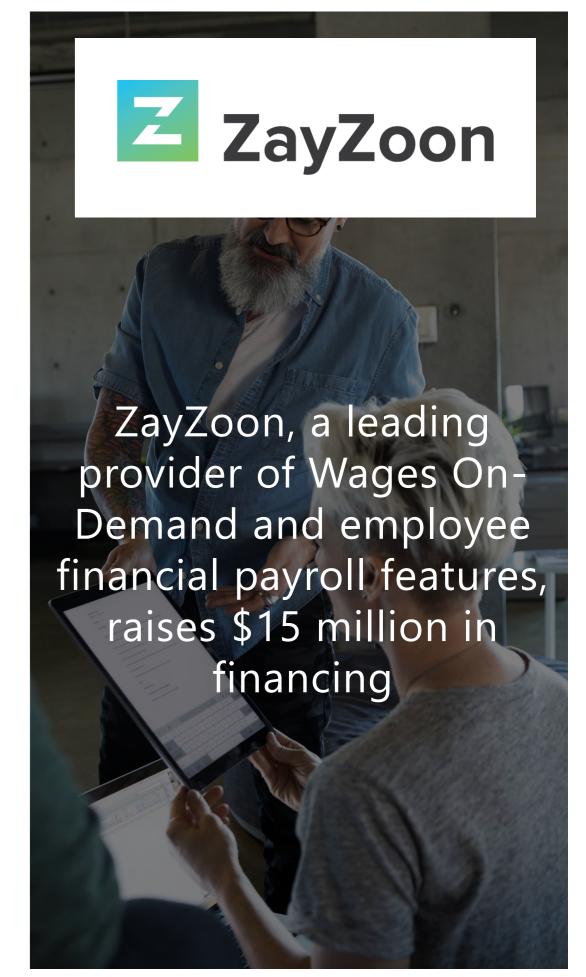
RECENT NOTABLE

FINTECH INVESTMENTS









RECENT

HEALTH INVESTMENTS



Calgary-born Parvus Therapeutics partners with Genentech, a San Francisco-based biotechnology company in a deal with \$1 billion to develop and commercialize drugs for the treatment of inflammatory bowel disease, autoimmune liver diseases, and celiac disease



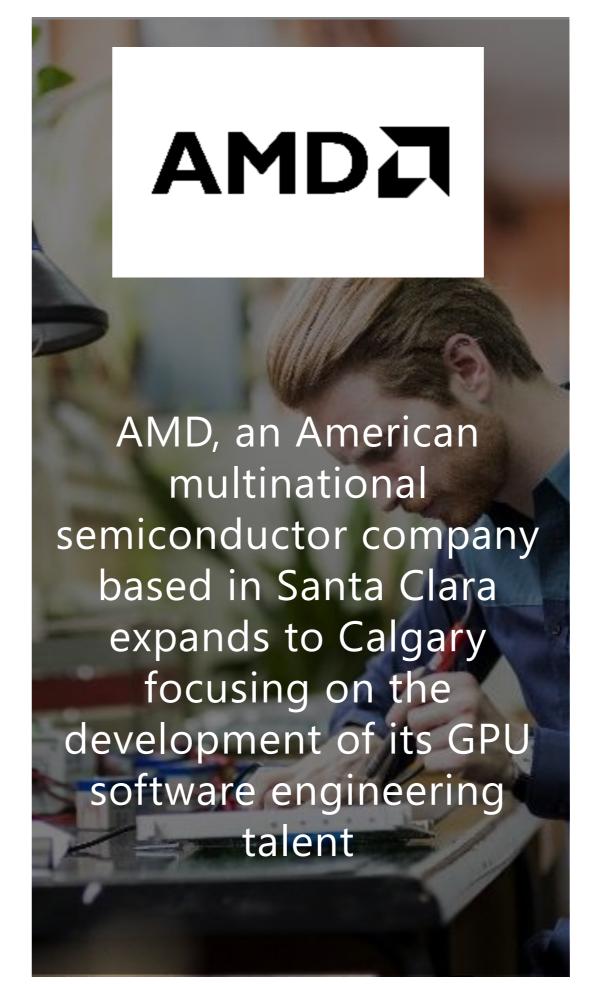


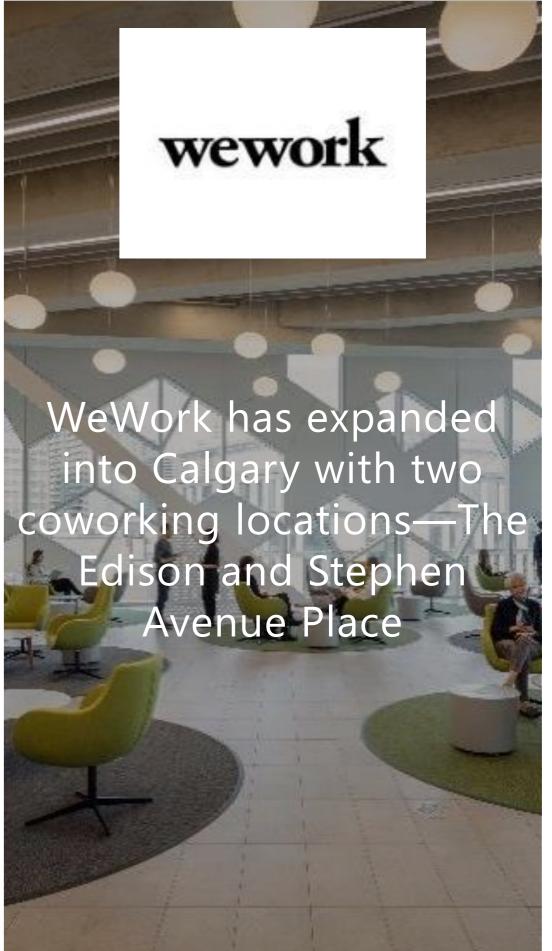
RECENT

OFFICE OPENINGS IN TECH









Labour Demand



ICTC forecasts Alberta will see demand for nearly 9,000 digital jobs by 2023.

- ICTC, A Digital Future for Alberta, June 2019



Finance, Insurance & Real Estate will grow by 1.6% annually, reaching 4.8% of total employment in 2019 and gain 68,100 jobs by 2024.

- Government of Alberta, 2016; Statistics Canada, 2016



Manufacturing accounts for 5.2% of total employment in Alberta and is expected to grow at an average rate of 1.0% from 2017 to 2021.

- industry Profiles 2018, Manufacturing, Government of Alberta, 2018



Agriculture will need to fill 23,300 potential jobs in Alberta by 2025.

- AgriLMI CAHRC, 2016





The **Logistics** sector in Alberta will grow by about 7,470 workers from 2016 to 2025.

- APGC, 2016



Oil and Gas employment in Canada is expect to shrink by 7%, or 12,500 positions, to 173,300 workers in 2019 from 185,800 workers in 2018.

- 2019 Oil and Gas Labour Market Update, PetroLMI, April 2019



Clean Tech and Clean Resources in Canada will see a demand for approximately 25,500 and 10,500

workers respectively, by 2023.

- Canada's Growth Currency: Digital Talent Outlook 2023, ICTC, 2019



Energy Efficiency employed 436,000 permanent workers in Canada in 2018, with expected growth of 8.3% in 2019, creating over 36,000 jobs.

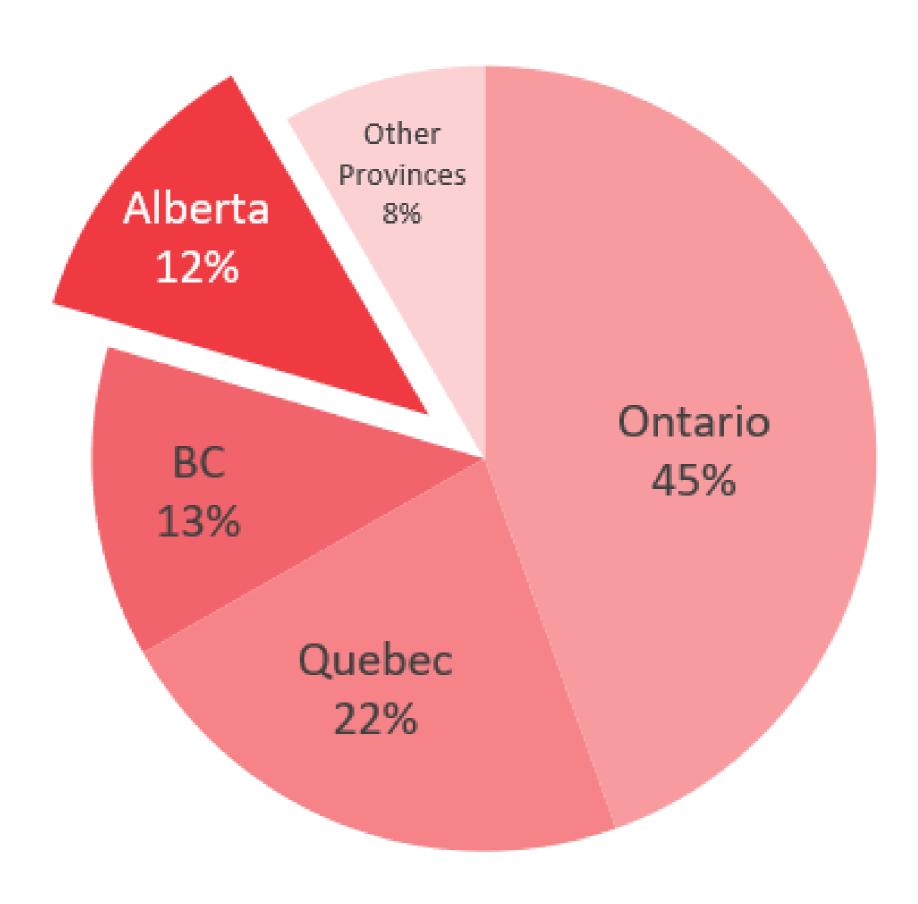
- Energy Efficiency Employment in Canada, ECO Canada, April 2019

Market Demand

- "Canada's digital economy is predicted to continue to grow significantly over the next five years."
- "By 2021, employment in Canada's digital economy will reach 1.63 million jobs, creating approximately 216,000 new vacancies which will need to be filled with qualified talent.
- If AB's share of the Canadian ICT sector stays constant (or grows), that equates to at least
 35,000 new jobs by 2021

The Digital Talent Dividend: Shifting Gears in a Changing Economy. Information and Communications Technology Council (ICTC), Ottawa, Canada. Cutean, A., Ivus, M. (2017).

ICT Sector Segmentation



Calgary Companies Hiring Tech

Software Engineer / Developer		Computer Programm
January 2020		Januar
Glassdoor	Indeed	Glassdoor
Cisco Systems	Attabotics	Arcane
Clio	Boast Capital	Autodata Solutions
Decisive Farming	Circle Cardiovascular Imaging	Brightsquid Secure Communications Corp
Hexagon	Collage.com	Evans Hunt
Nasdaq	H.B. Studios Multimedia Limited	Languages in Motion (LIM)
P2 Energy Solutions	Localintel	Pason Systems Corp
RS Energy Group	LodgeLink	The Professional Petroleum Data Management Association
Sercel	Pangea Global, LLC	Routeique Inc.
Suncor Energy Inc.	Streamsim Technologies, Inc.	Vantix Systems
Sunnyfuture Group	Trimac	Vista Projects Limited

Glassdoor

Indeed



Market Demand

From indeed and Linked in (as of Sept. 15, 2019)

Software Developer jobs

- Indeed –302
- LinkedIn –432

Data Analyst jobs

- Indeed 244
- LinkedIn 102

IT Project Manager

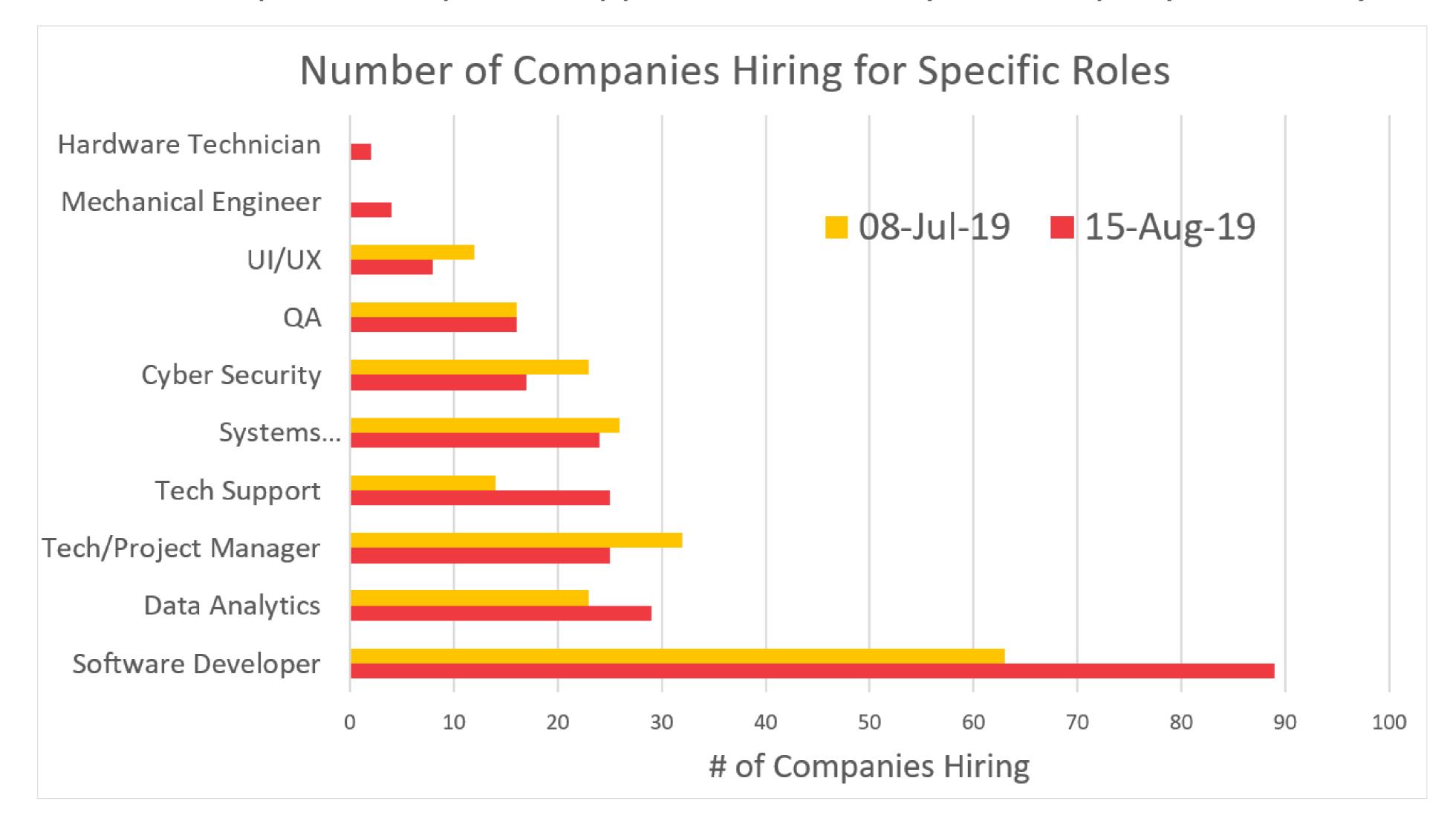
LinkedIn – 548 9though

Information Technology jobs

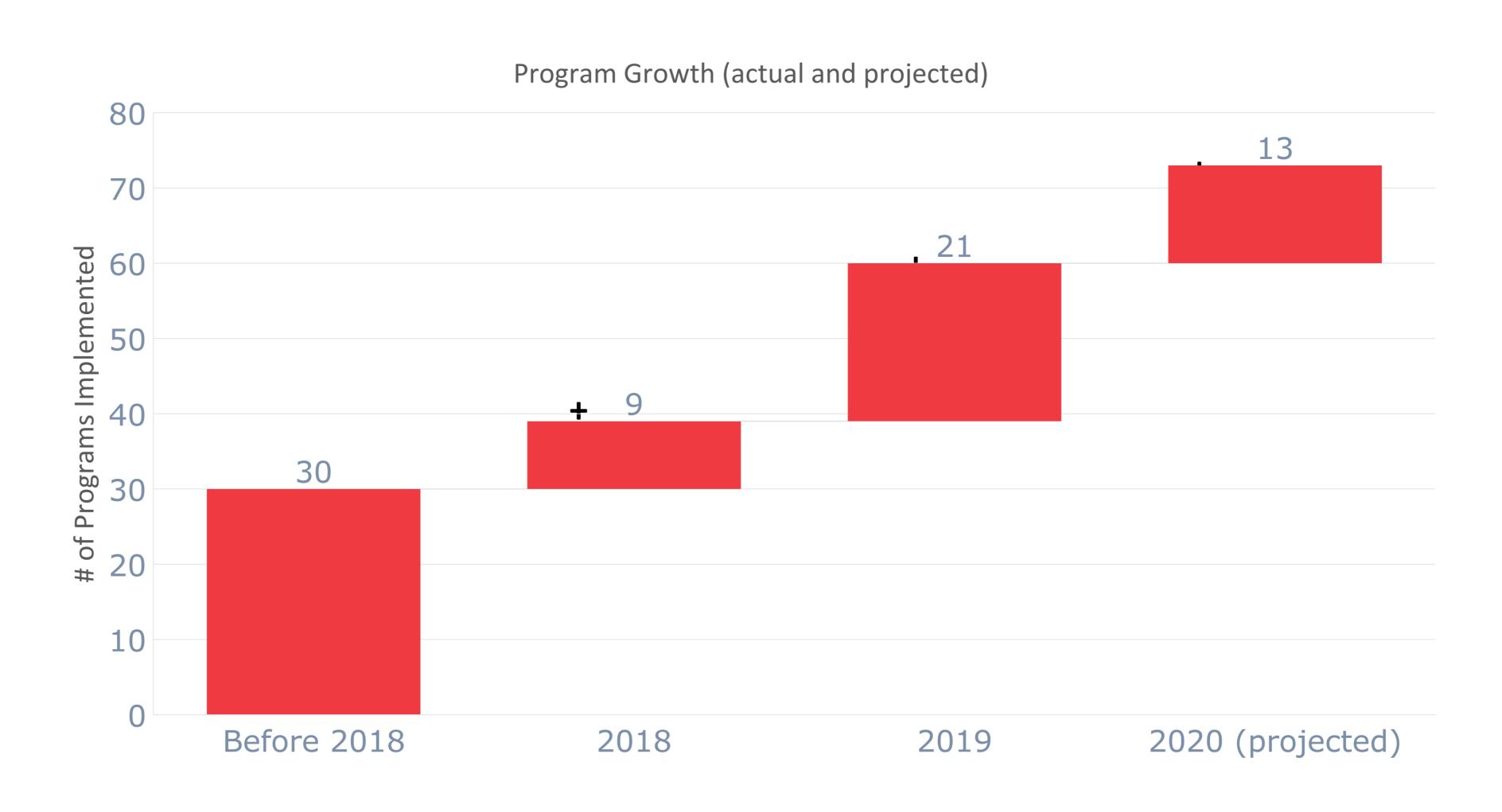
- Indeed 858
- LinkedIn 427

Market Demand

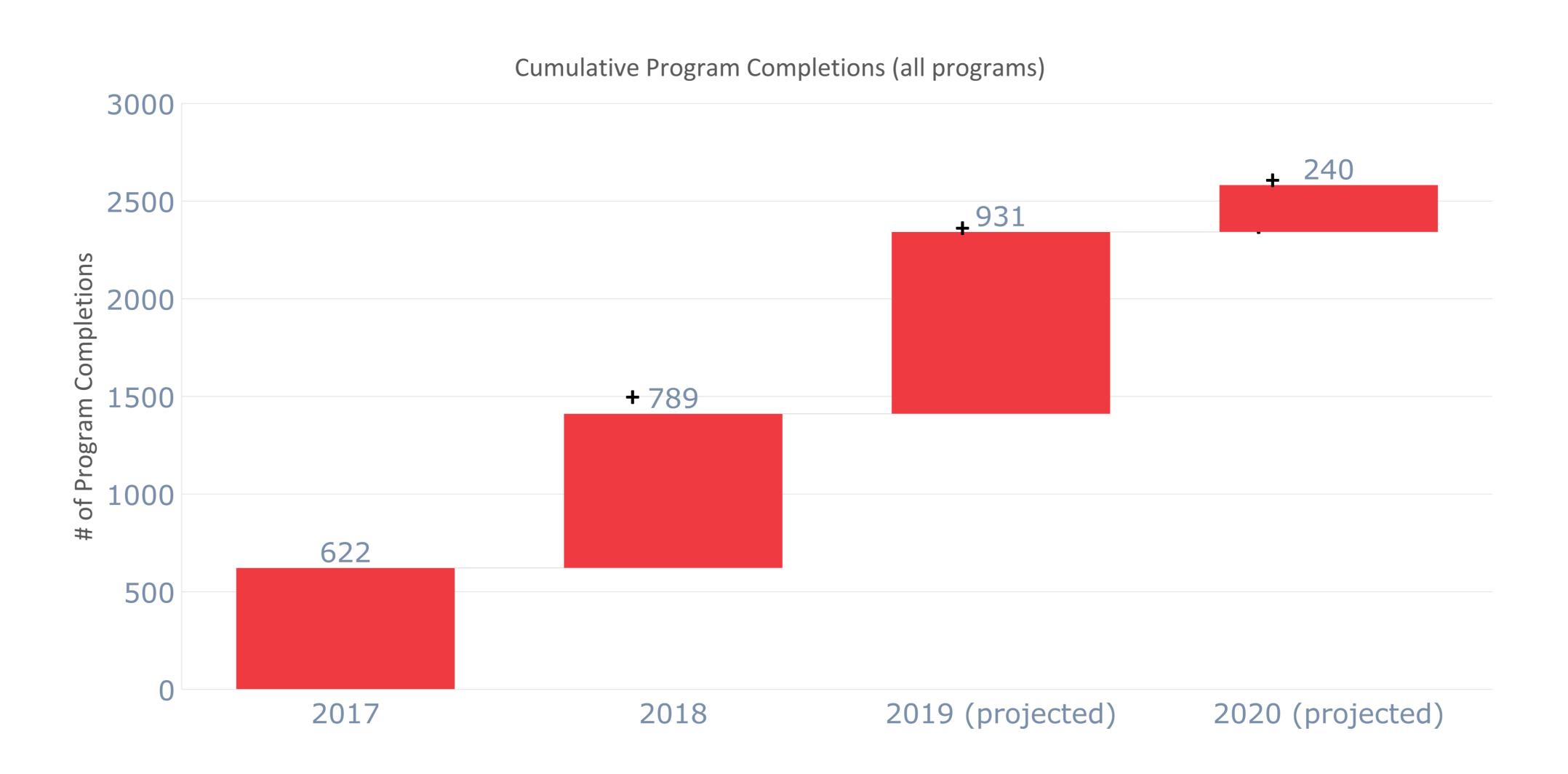
Summer 2019 career portal snapshot supports this trend (125 company websites)



Uptick in New Tech Training

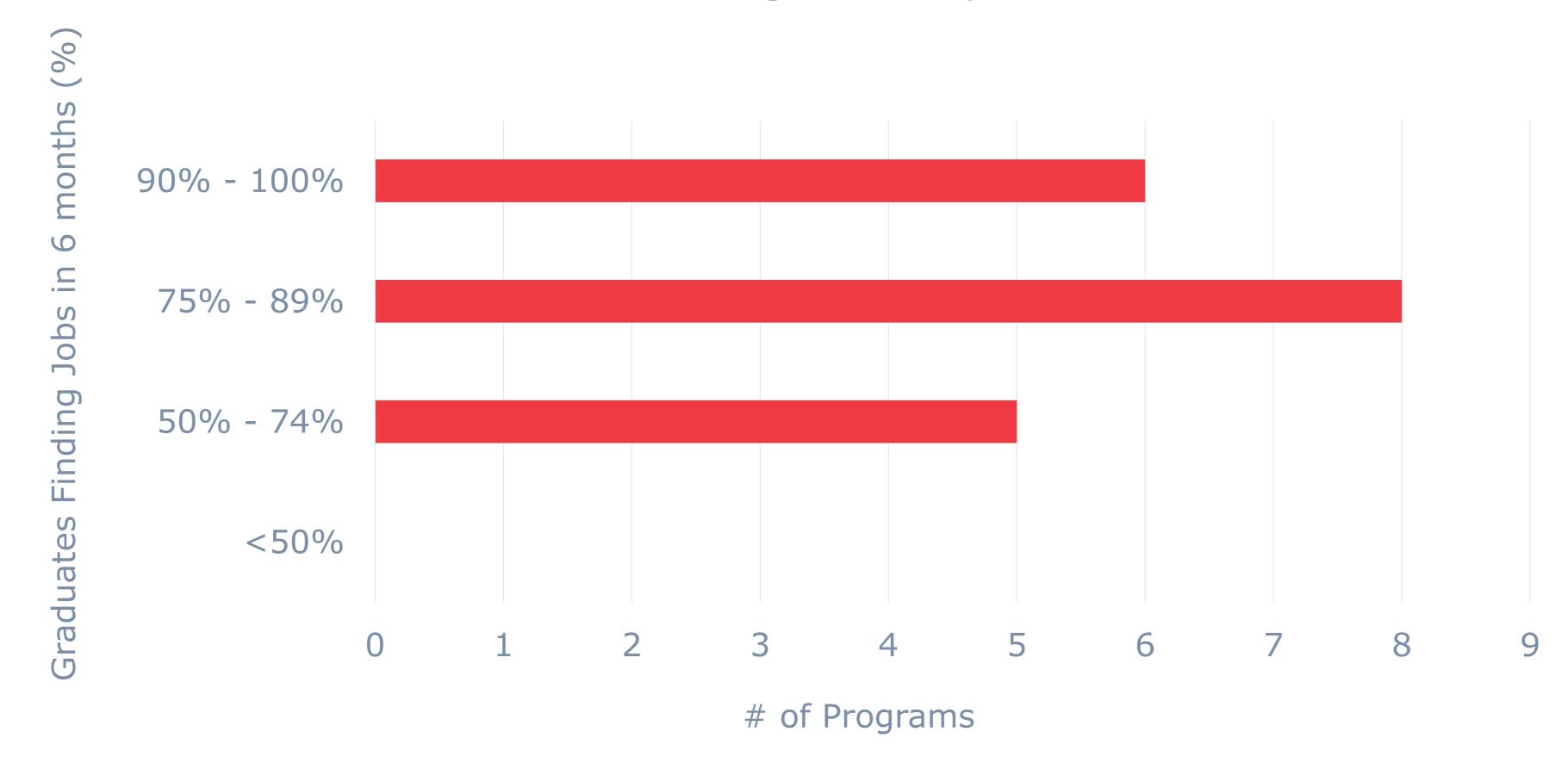


Technical Workforce is Growing

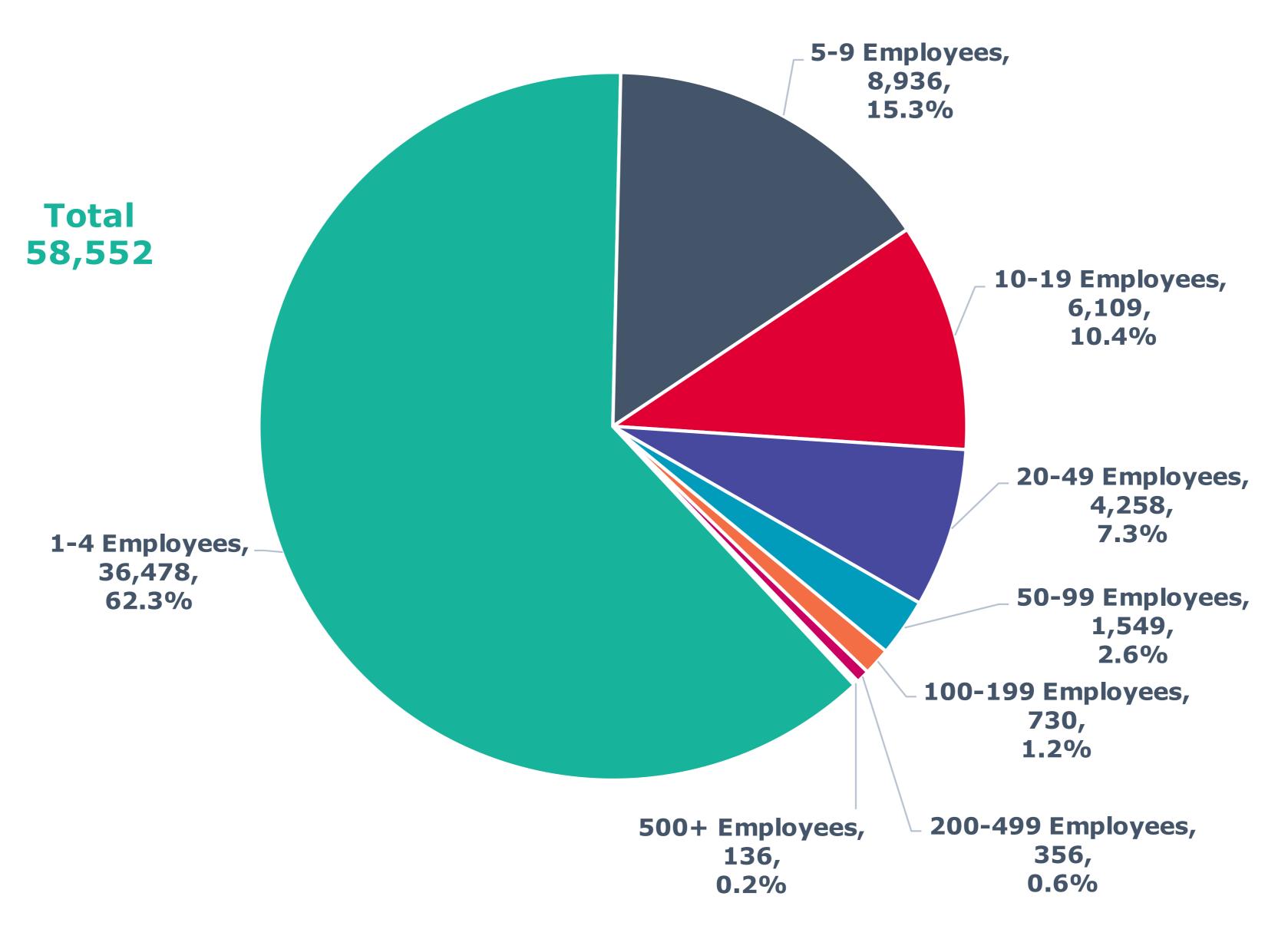


Employment Outcomes

of Programs Resulting in Graduates Finding Jobs within 6 months of Program Completion



Calgary CMA Business Establishments by Number of Employees

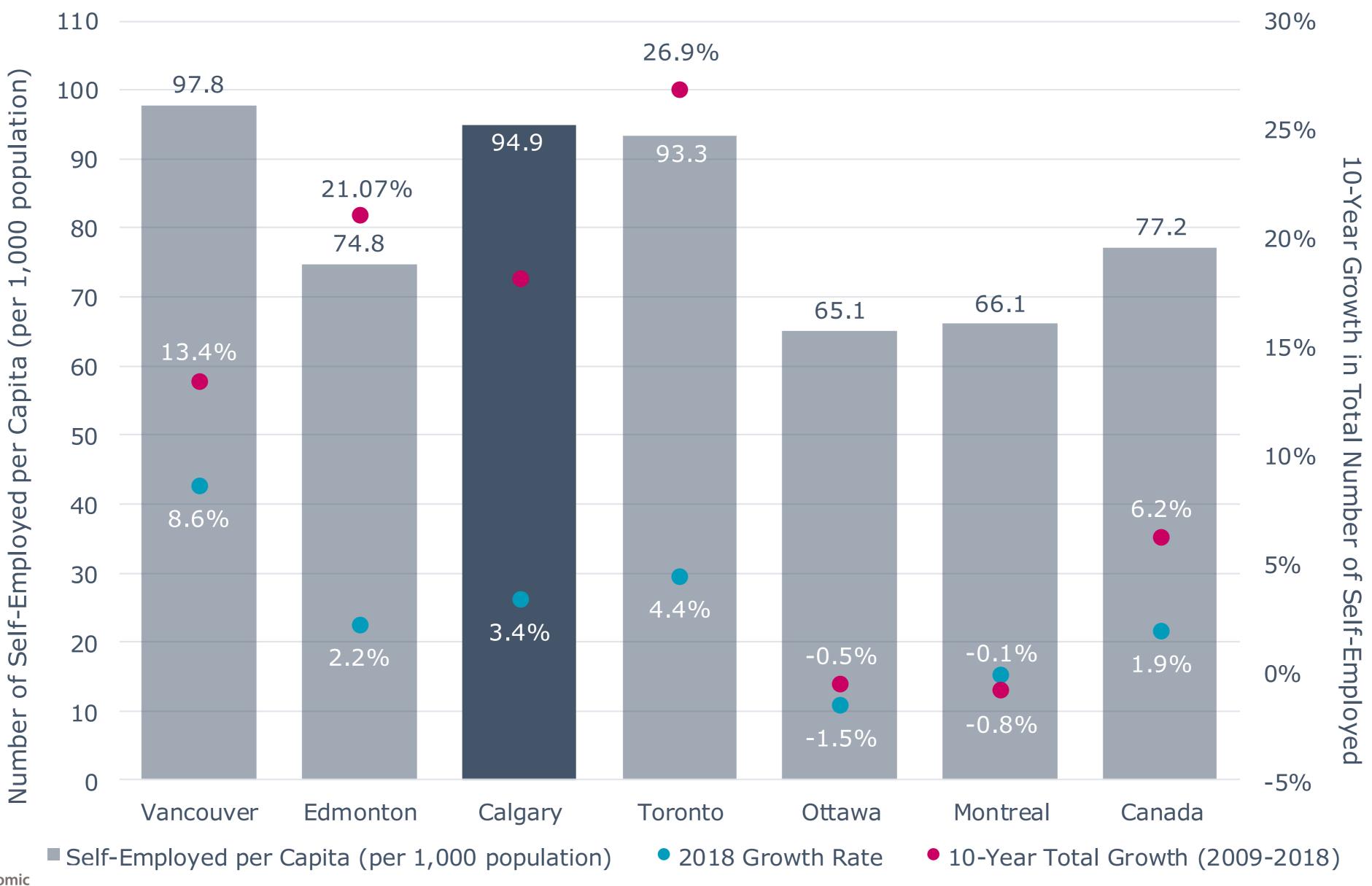


All Industries
58,552

Small Business (1-49)
55,781



Self-Employed per Capita and 10-Year Growth





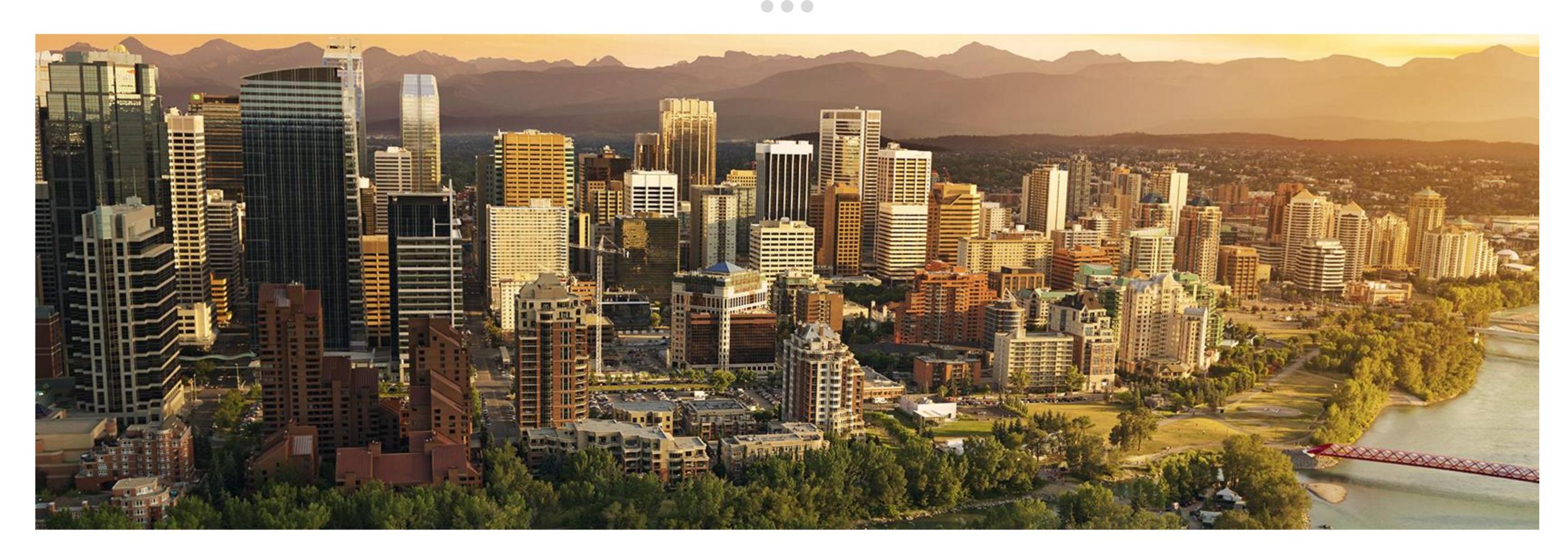
The Economist







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