

Advanced Manufacturing

Edmonton Region's advanced manufacturing ecosystem is home to nearly 40 percent of Alberta's manufacturing output, specializing in high-value manufacturing of sophisticated customized products.



- Skilled & diversified pool of talent
- Cluster of manufacturing & technology expertise
- Affordable energy prices
- Access to global markets

EDMONTON REGION: THE FUTURE OF MANUFACTURING

Edmonton Region's growing advanced manufacturing cluster features the evolution of traditional manufacturing as well as the development and implementation of innovative technology, high-tech and automation



INDUSTRY 4.0

- 35% of manufacturers in Alberta have implemented digital technologies
- In September 2019, Telus announced a \$16B investment in Alberta over 5 years which will support increased IoT capabilities



CLEAN TECH

- Research efforts have yielded advances towards broader commercialization of geothermal and waste-to-energy technologies
- NAIT's Alternative Energy Technology Program trains specialized workers for roles in renewable energy and energy efficiency industries



METALS & MACHINERY

- Alberta's industrial manufacturing sector supports industrial production and processing such as oil & gas and petrochemicals on both a local and global scale
- Alberta is the second largest metal manufacturing hub in Canada

ADVANCED MANUFACTURING HIGHLIGHTS



\$13b

Annual exports from Alberta



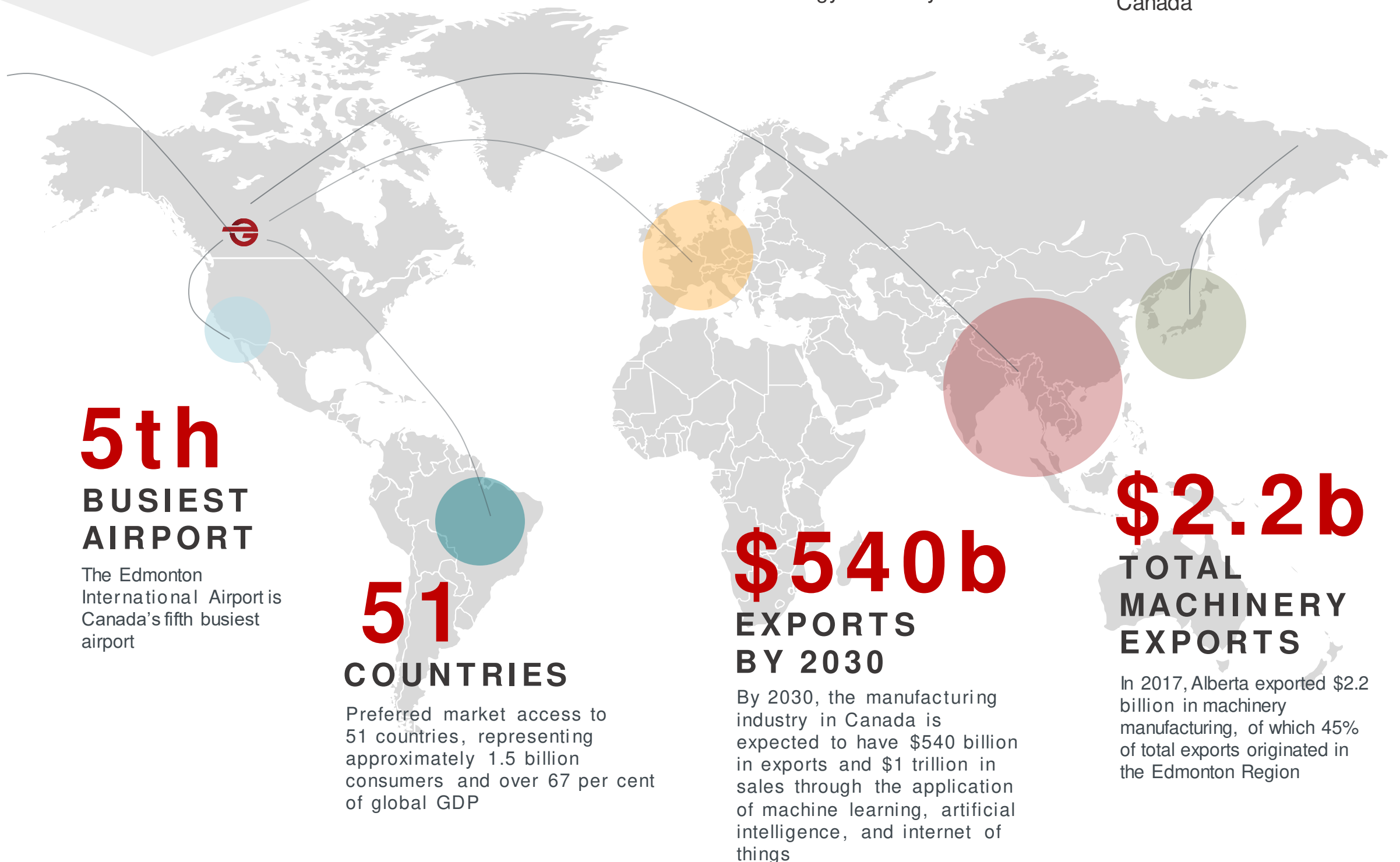
49,865

Workers in Edmonton Region



2,332

Establishments in Alberta





PROGRAMS
388 UNDERGRADUATE
500 GRADUATE

TALENT & EDUCATION

UNIVERSITY OF ALBERTA

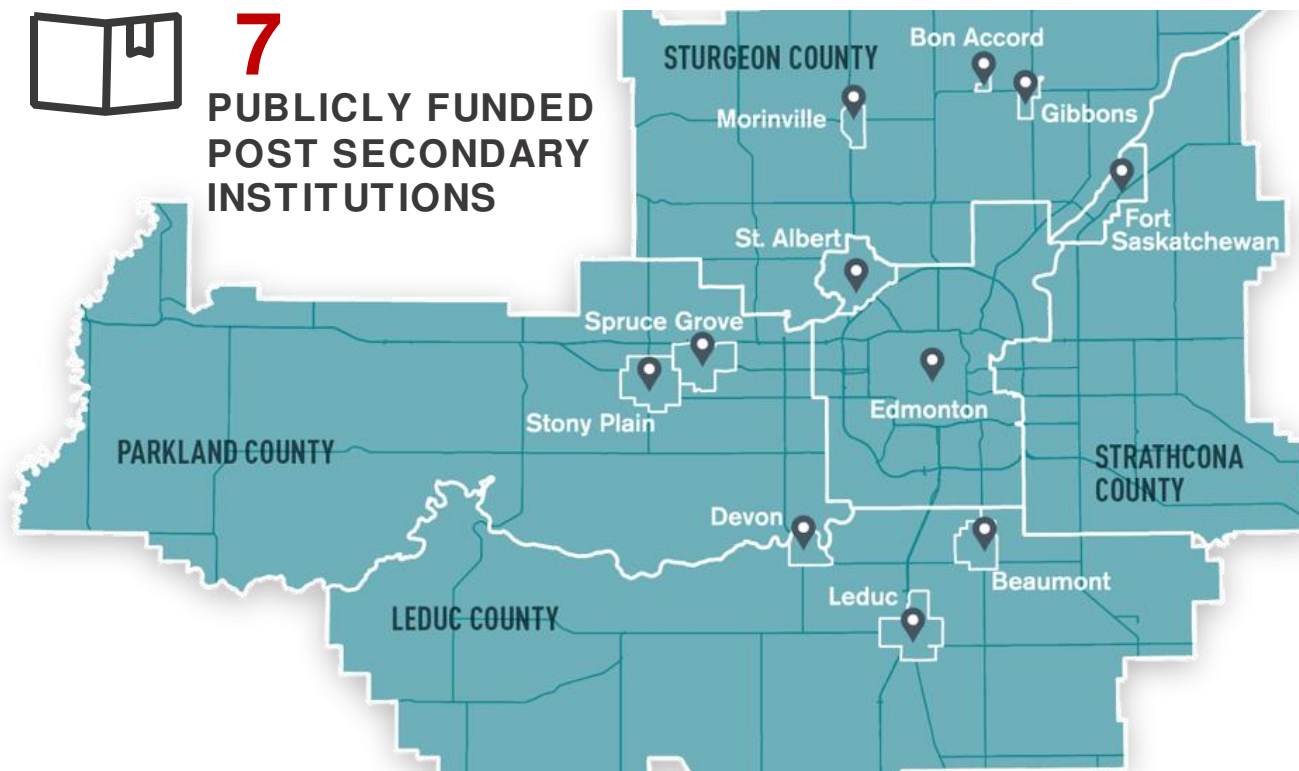
- Alberta's **largest academic and research institution** with 21 engineering programs offered through the Faculty of Engineering, consistently recognized as one of the best in Canada and the world
- Hosts the National Research Council of Canada Nanotechnology Research Centre

NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY (NAIT)

- A prominent polytechnic institution and **Canada's largest provider of apprenticeship training**
- NAIT's Productivity and Improvement Centre offers a 190,000 sq. ft facility for product testing, technology adoption, training, innovation and research, and growth in the manufacturing sector



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PUBLICLY FUNDED POST SECONDARY INSTITUTIONS



INNOVATION ECOSYSTEM

INNOTECH ALBERTA

- Offers the Alberta Metal Fabrication Innovation program to support small and medium sized companies in **implementing advanced manufacturing and fabrication solutions**

ALBERTA AEROSPACE & TECHNOLOGY CENTRE

- Edmonton based **aerospace training and innovation hub**
- Launched to create a **safer and sustainable aviation industry** through investment in simulators and research



\$11.2b

LESS TAXES PAID BY BUSINESSES THAN IN OTHER CANADIAN JURISDICTIONS

BUSINESS ENVIRONMENT

COMPETITIVE TAX REGIME

- At 8%, Alberta currently has the **lowest corporate tax rate in Canada.**
- The value added tax (VAT) in Alberta is 5%, among the lowest rates across all of Canada

“Adding value to our resources gives us global market access with high-value products. We are pleased the Government of Canada recognizes this opportunity and has worked with us to help make investments like this competitive. Moreover, it shows a commitment to the thousands of people employed by this project over the next three years of construction and decades of operation”

David Chappell
 Senior Vice-President, Petrochemical Development, Inter Pipeline



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