

Investment Opportunity – Health AI

The Edmonton Metropolitan Region combines a university ranked 3rd globally in AI research, accessible health datasets from 4.5 million people, world-class medical infrastructure, and thriving R&D.

\$4 BILLION *Global Health AI market in 2018*

41% ANNUAL GROWTH *projected from 2019 to 2025*

AI could add as much as

\$15.7 TRILLION

to the global economy by 2030.

4.5 MILLION HEALTH RECORDS
Canada's largest single dataset.

TOP 3 IN THE WORLD *The University of Alberta is a world-leader in AI research.*

THE EDMONTON REGION HAS OPEN AND MODERN REGULATORY FRAMEWORKS FOR BOTH AI AND DATA, INCLUDING SYNTHETIC DATA.

OPPORTUNITY

The global economic downturn will lead to middle-income countries looking for more efficient health spending solutions.

Wealthy countries will be increasingly focused on managing an aging population.

AI has the capacity to supply solutions for both.

In 2018, global Health AI was valued at \$4 billion with an expected compound annual growth rate of 41.5% from 2019 to 2025.

Technology and innovation in Health AI have the capacity to solve healthcare challenges including:

- Preventative medicine
- Early detection/diagnosis
- Decision making in medically complex scenarios
- Treatment planning

EDMONTON METROPOLITAN REGION VALUE PROPOSITION

1 AI INTEGRATION WITH HEALTHCARE

- Alberta Health Services (AHS) is Canada's largest single healthcare system.
- Integrating AI into its 4.5 million diverse population has the potential to translate into a product that can be exported beyond big metropolitan centres.

3 INCENTIVES & TAX CREDITS

- Companies benefit from the Government of Canada investment tax credit ranging from 15% to 35% for scientific research and experimental development opportunities.
- The \$1.26 billion Government of Canada Strategic Innovation Fund generates incentives for large (+\$10 million) R&D and commercialization projects across all industries.
- Government of Alberta Innovation Employment Grant will support businesses that invest in R&D with a grant worth up to 20% of qualifying expenditures.

2 AI RESEARCH, EXPERTISE AND TALENT

- The Edmonton region is part of the Pan-Canadian AI Strategy and is home to the Alberta Machine Intelligence Institute (Amii).
- Amii has been collaborating with AHS since 2015 – integrating AI and health in a real-world setting.
- The University of Alberta is ranked 3rd globally for AI research.
- Canada's regulatory structure on AI is significantly more permissive than most OECD countries. This means products can be developed and tested in Canada prior to being released globally.

ECOSYSTEM SNAPSHOT

DIGITAL HEALTH CANADA

A national organization supported by Alberta Health Services and Alberta Innovates

HEALTH CITY

Edmonton region based economic development initiative working to integrate AI and synthetic data into the healthcare system

UNIVERSITY OF ALBERTA

Computing science department ranked 3rd globally for AI research

ALBERTA MACHINE INTELLIGENCE INSTITUTE

A global leader in AI including health AI

ALTAML

- An Edmonton based company that partners with industry to apply AI research to their businesses practice
- Notable partnerships in the health sector include:
 - Oliver Primary Care Network – a sub-municipal health authority
 - Boehringer Ingelheim Canada Ltd. - a multinational pharmaceutical company

CASE STUDY - BIONIC LIMBS FOR IMPROVED NATURAL CONTROL (BLINC) LAB

An Edmonton region lab using robotics and machine learning to improve sensory motor control and integration of advanced prosthetics and robotic systems

CASE STUDY - MEDO.AI

Internationally growing diagnostic company using AI for ultrasound applications which has recently received FDA approval for their product

Contact Edmonton Global's Brent Jensen to receive a detailed business case and competitiveness scan for health AI investment opportunities in the Edmonton Metropolitan Region.

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