

Scientific Leadership

Rich Sutton (amii) is one of the fathers of the field of reinforcement learning and a pioneer of Canada's deep research capacity in data analytics and the foundation for Al

Yoshua Bengio (MILA) and Geoff Hinton (Vector Institute), 'fathers of deep learning', were awarded the 2019 Turing award for their contributions to AI

1994	The Chinook program challenges world checkers champion Marion Tinsley; checkers game is "solved" in 2007.	Chinook program was developed by Dr. Jonathan Schaeffer; currently Dean of Science, UAlberta
1997	IBM's Deep Blue Computer defeats world champion Gary Kasparov.	A key member of that team created Deep Blue was Murray Campbell who received his Bachelor's and Master's degrees from UAlberta.
2016	DeepMind's AlphaGo program beats Go World champion Lee Sedol.	The Lead Programmers of the AlphaGo program were Drs David Silver and Aja Huang who were both students at UAlberta.
2017	The DeepStack Program defeats professional poker players in heads-up no limit Texas Hold'em poker.	The achievement was featured on the cover of the Journal of Science in May, 2017, and was led by UAlberta professor Dr. Michael Bowling.

How the university of Alberta has contributed to Al



Building an Ecosystem

Some Facts About Canada



CANADA IS THE EASIEST
PLACE TO START A
BUSINESS IN THE
G20. (WORLD BANK,
DOING BUSINESS 2019)



CANADA IS A GLOBAL LEADER IN AI RESEARCH, WITH 650 AI COMPANIES, LARGELY START-UPS



MONTRÉAL HAS THE
HIGHEST
CONCENTRATION OF
RESEARCHERS AND
STUDENTS OF
DEEP LEARNING IN THE
WORLD.



TORONTO HAS THE
HIGHEST
CONCENTRATION OF AI
START-UPS IN THE
WORLD.

The AI super-cluster for supply chains



A super-cluster with \$290 million of federal and provincial funding



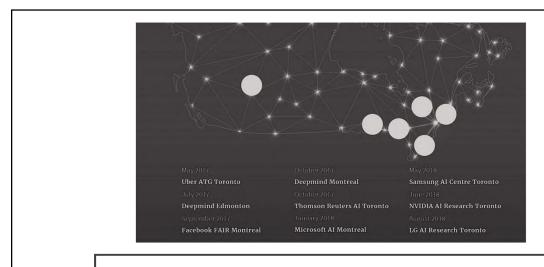
SMEs: mentorship and access to intellectual property to develop products and services



Al researchers:
participate in
projects to fast
track
commercialization
of technology



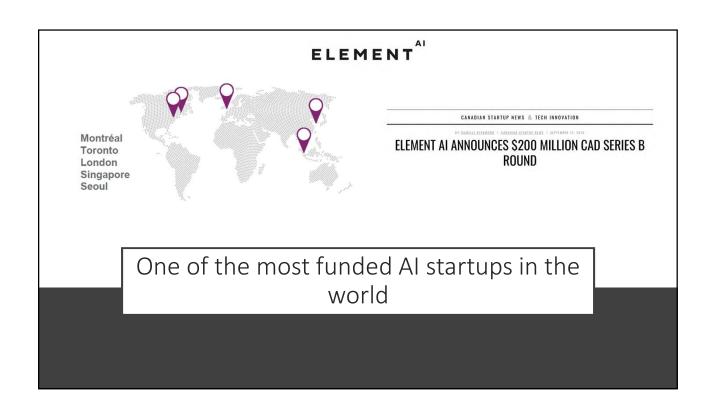
Students and professionals: get trained on using Al and intelligent supply chains.



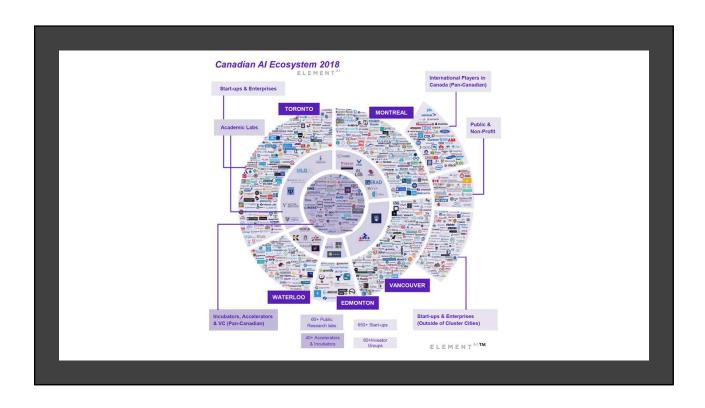
International investments in Al

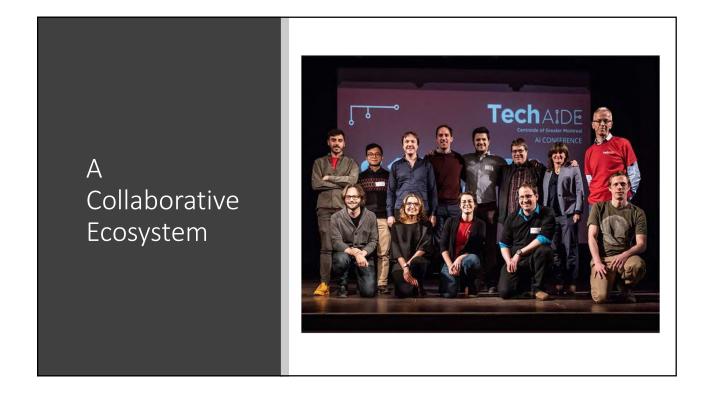


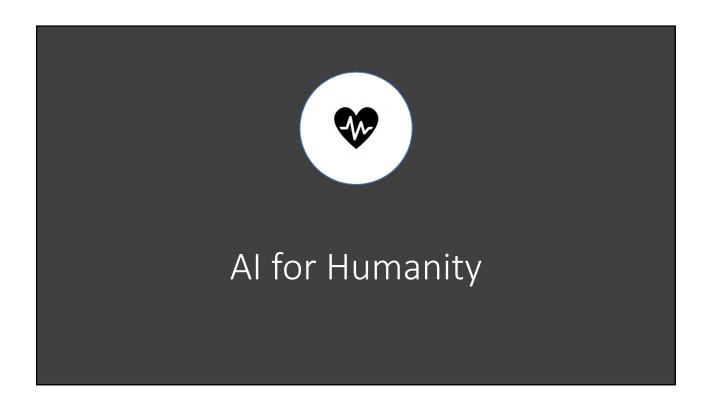
Borealis AI: a long-term investment from RBC, the largest bank in Canada











Ethical and Fair Al

"PROTECTING THE RIGHTS TO EQUALITY AND NON-DISCRIMINATION IN ML SYSTEMS" THE TORONTO DECLARATION

"AI TO MAKE OUR SOCIETIES BETTER, IN THE BEST INTEREST OF, AND WITH RESPECT FOR EVERYONE"

THE MONTREAL DECLARATION OF RESPONSIBLE AI

