

# Homegrown AI for Canada's Economy: From Vision to Value

How strategic investment fuels  
the growth of Canadian-made AI  
to build a globally competitive,  
sustainable economy



# Canada is a leader in AI. And we're going to use AI to fuel our economic growth.

Since 2017, Canada has been on a mission to make AI one of our country's greatest assets, transforming AI investment into the AI talent and infrastructure needed to create a thriving, AI-powered economy.

Canada appoints its **first Minister of Artificial Intelligence**, marking a historic milestone in AI governance and innovation leadership.

2025

Budget 2024 announces **historical investment of \$2.4 billion for AI priorities**, including the Canadian Sovereign AI Compute Strategy launched and the AI Compute Access Fund to help SMEs develop made-in-Canada AI products and solutions

2024

**Scale AI** creates ALL IN, now **Canada's largest AI event**, with the support of the entire Canadian AI ecosystem

2023

Government of Canada introduces **Digital Charter Implementation Act**, including Artificial Intelligence and Data Act (Bill C-27)

2022

**Global Partnership on Artificial Intelligence (GPAI)** launched, with Canada as founding member

2020

**Advisory Council on Artificial Intelligence** created to advise the federal government on building Canada's AI strengths and global leadership

2019

**Scale AI founded** with a focus on using AI in supply chains and logistics

2018

**Canada hosts G7 conference**, focused on AI's responsible adoption and business applications

**Pan-Canadian Artificial Intelligence Strategy**, the world's first national AI strategy, launched by Government of Canada in partnership with CIFAR

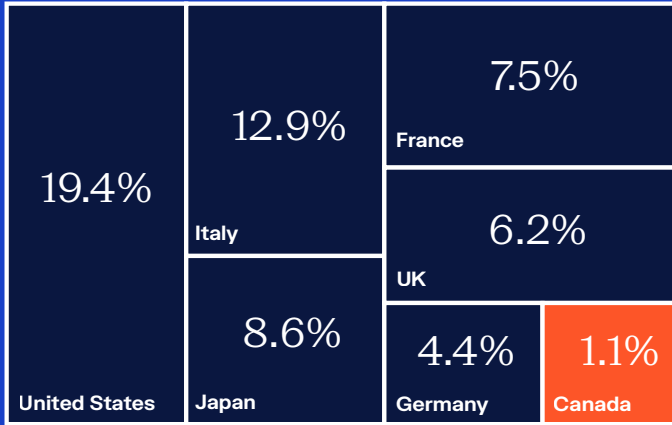
2017



## We're facing serious challenges

Canada's in the midst of a productivity crisis. Our real GDP per capita is lower today than it was in 2014. We're facing unprecedented trade tensions and threats to our economic sovereignty.

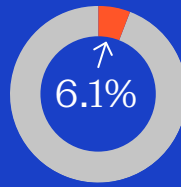
### G7 Productivity Growth



Source: OECD, Real GDP per capita, 2014-2024

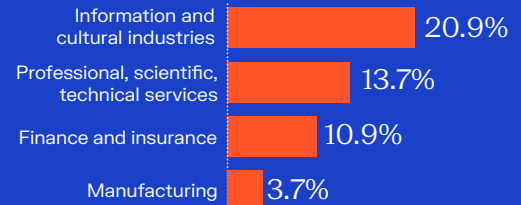
Our **real GDP per capita** is lower today than it was in 2014.

Very few Canadian businesses are using AI to enhance operations.



Canadian businesses (any size) that have used AI to produce goods/services

### Most likely to have used AI



### Least likely to have used AI



Source: Statistics Canada, June 2024. Figures reflect AI use in previous 12 months.



There is a **clear opportunity for all industries** to benefit from greater AI adoption.



## Adopting Canadian-made AI will power our economy

By adopting homegrown AI, we can tackle today's challenges and drive a prosperous, resilient economic future for all Canadians. We can scale AI adoption into real economic and social gains—fuelling job creation, boosting productivity, strengthening national competitiveness, and providing other unique advantages:

- Powering our world-class research and innovation ecosystem
- Supporting public-private partnerships and a thriving startup landscape
- Keeping data, talent, and IP in Canada, protecting technology sovereignty
- Unlocking new commercial opportunities in high-potential sectors
- Delivering AI solutions custom-built for Canada's unique regulatory, linguistic, and industry need

Now is the time to scale what we've built. Adopting homegrown AI is how we turn innovation into jobs, economic growth, and global leadership.

### How AI can drive Canada's economy forward



Augmenting low-value tasks



Keeping Canadian value creation and data inside our borders



Enhancing business decision-making and efficiency



Reducing our reliance on foreign technology



Enabling Canadian workers to do more, faster



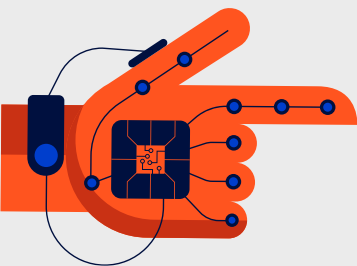
Fueling job growth



Improving Canada's global competitiveness



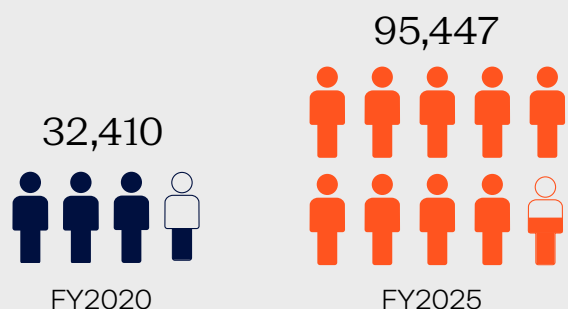
Help us keep top AI talent and IP at home where it belongs



## Canada has a track record of AI success

Canada is a global leader in producing AI talent and publishing high-quality AI research, and the number of Canadian AI-related patents has steadily grown for several years. VC investment in Canada's AI sector has also continued to rise.

↑**3x** increase in AI professionals in Canada



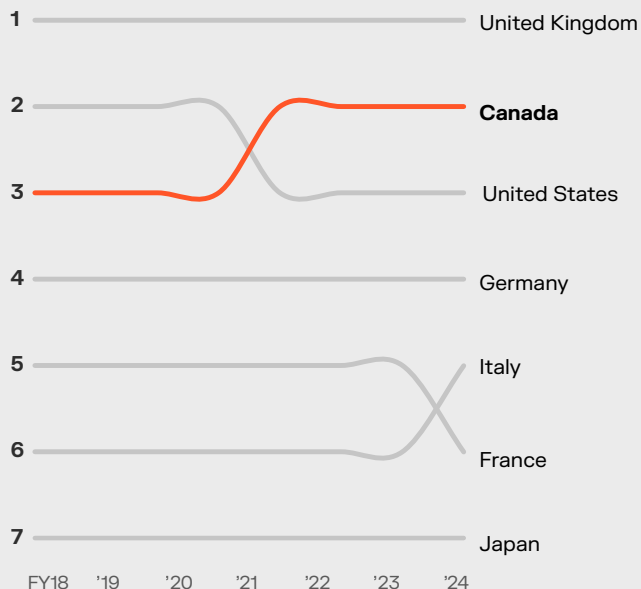
Source: LinkedIn Insights, Deloitte

Since 2018, Canada has consistently **ranked among the top three G7 countries** for high-impact AI publications per capita, surpassing the US since 2021.



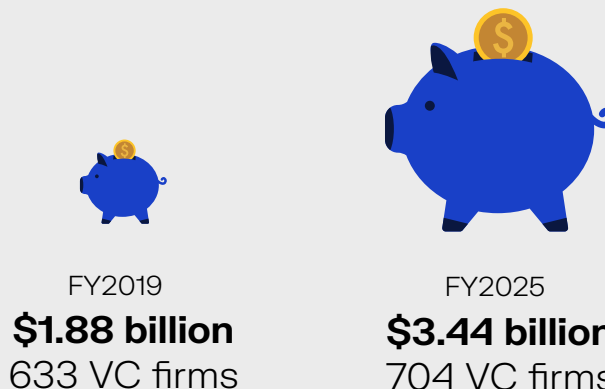
Canada's AI research leadership

G7 member ranking, AI research publications per capita



Source: OECD.ai

↑**83%** increase in VC investment in Canada's AI sector

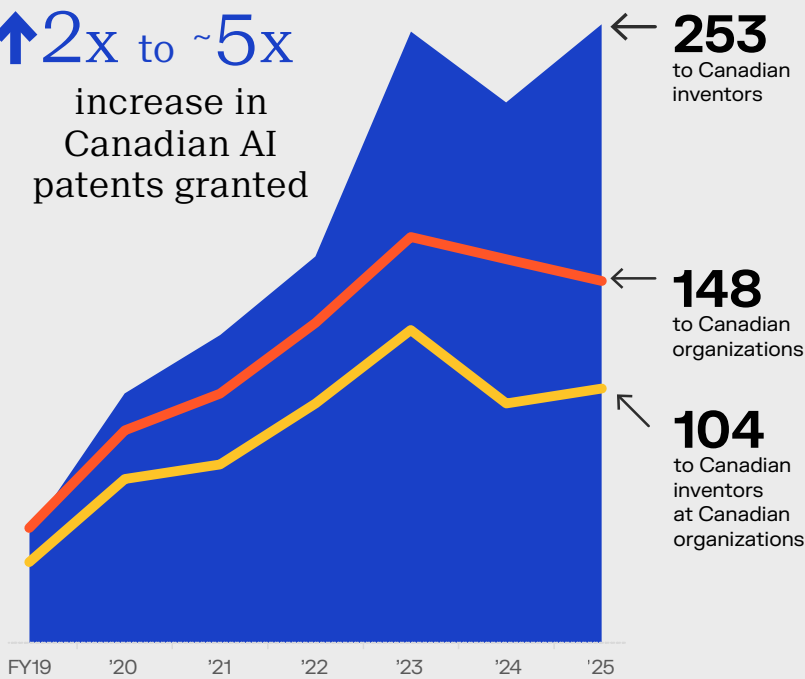


Source: Pitchbook

**Canada ranked third in AI VC investment** in FY2025 (after US and UK).



↑**2x to ~5x** increase in Canadian AI patents granted



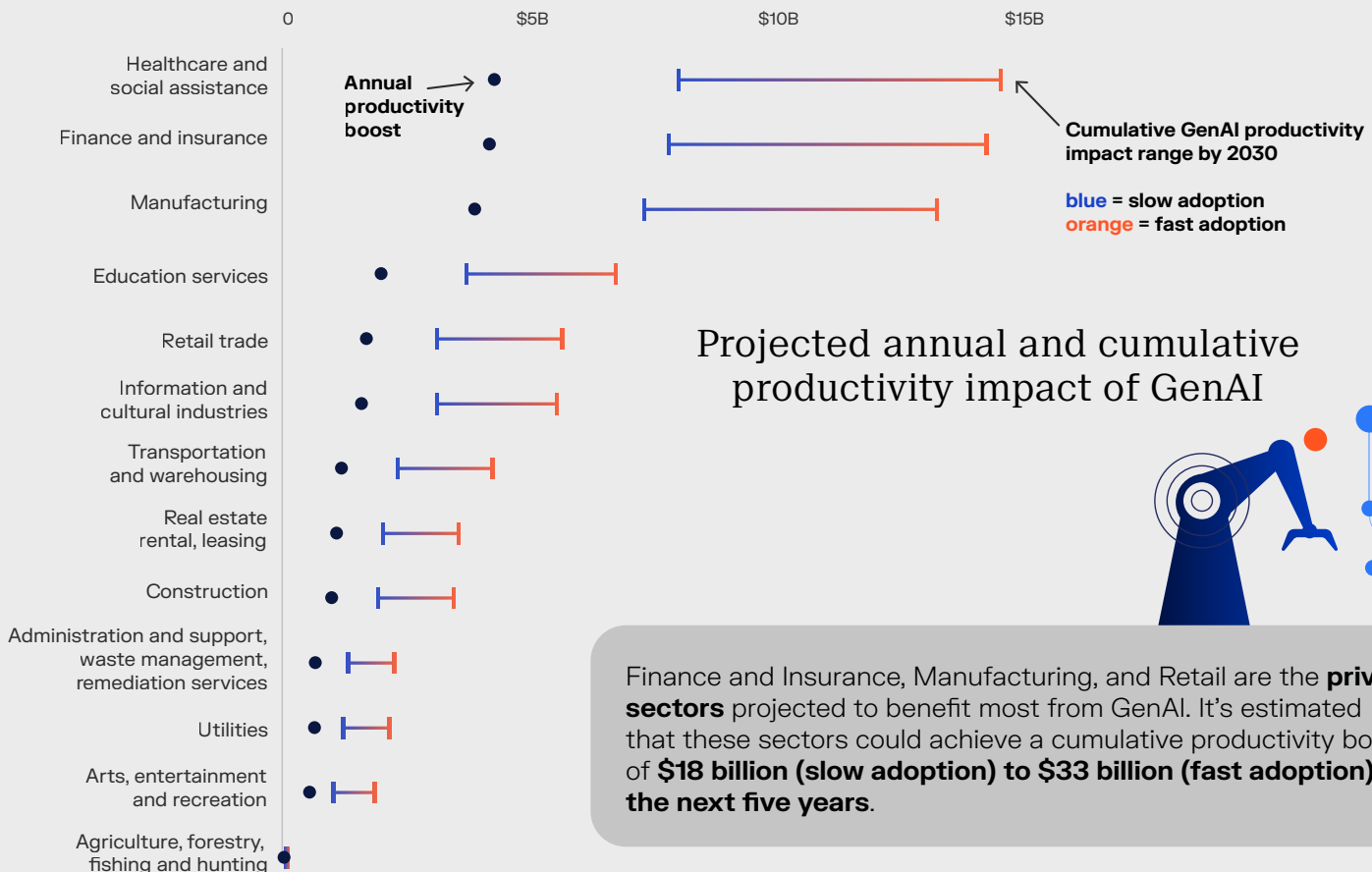
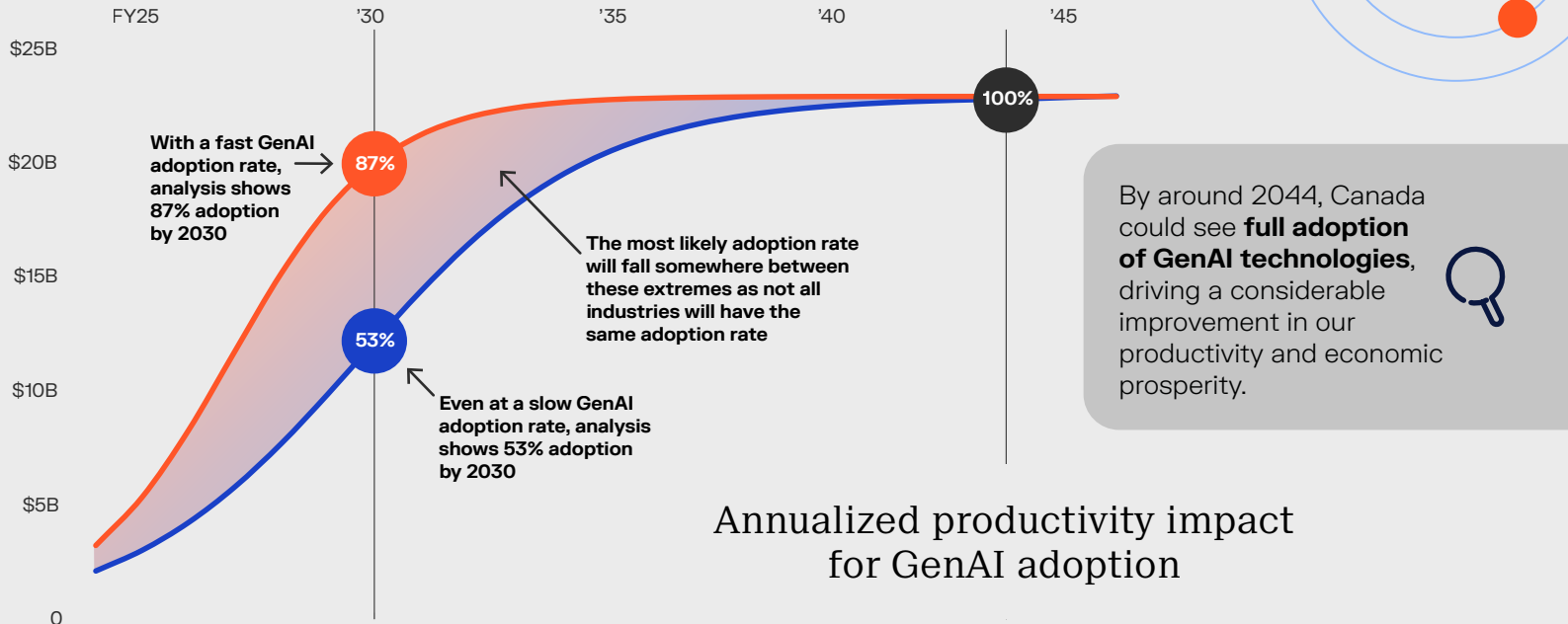
Source: WIPO, Data attributed to each category is not mutually exclusive

AI and other technology patents have **significant, positive, long-term impacts** on economic growth. Canadian AI patents have been on the rise for several years.



# GenAI can supercharge Canadian productivity

ChatGPT's launch has driven interest in GenAI and AI more generally. The impact could be significant: an analysis of 13 select sectors of the Canadian economy indicates a cumulative, GenAI-driven productivity boost of up to \$78 billion by 2030. As most GenAI tools are currently US-based, this presents a big opportunity to build homegrown GenAI solutions that meet Canadian business needs.



Source: Canadian Chamber of Commerce, Deloitte analysis. Assumes productivity impact of \$23 billion, no AI-driven wage changes or decay in AI solution efficiency.

# Scale AI: Bringing Canada's AI-powered future to life

Scale AI is an AI cluster dedicated to leveraging AI technologies to improve and optimize Canadian value chains and industry performance. We support the commercialization and export of Canadian-made AI products and services and champion their adoption by Canadian businesses over general purpose or “off-the-shelf” AI products, especially by small and medium enterprises.

480+  
organizations  
supported



150+  
AI projects  
supported



100%

Canadian IP conversion rate  
for Scale AI-funded projects

All AI-related intellectual property developed during Scale AI-sponsored projects—models, data, products, software, or code—is owned by Canadian organizations.

~1,200 jobs

created by  
Scale AI-sponsored projects



8,617 jobs

forecasted to be created by  
Scale AI-sponsored projects

\*Includes realized/actual jobs created and forecasted job creation over 5 years after project completion



Scale AI achieved unprecedented milestones with significant investments that have propelled our total funding since inception beyond expectations. These strategic investments have accelerated AI commercialization and reinforced Canada's standing as a global leader in this rapidly evolving field.

**Julien Billot**  
CEO  
Scale AI





When you have to build something customized, you need to invest first, and so you have to lower the risk of investment. And that's what we do at Scale AI: we subsidize AI adoption and allow the creation of Canadian-owned IP by third-party AI service and product providers.

**Julien Billot**

CEO  
Scale AI



# \$1.03 billion

in direct benefits\* YTD  
generated by Scale AI-sponsored  
projects

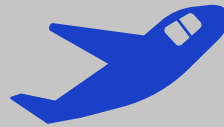
\*Realized/actual cost reductions and  
revenue growth



# \$7.29 billion

in forecasted benefits\* generated  
by Scale AI-sponsored projects

\* Includes realized/actual and forecasted cost reductions  
and revenue growth over 5 years after project completion



# \$680 million

in total project costs



including

# \$250+ million

from Scale AI





## Case study: AlayaCare

# Improving homecare through Canadian-made AI

Founded in 2014, Montreal's **AlayaCare** has developed an end-to-end, AI-powered SaaS platform that enables homecare agencies to manage their entire client lifecycle—from needs assessments, care plans, and scheduling to visit and route optimization, visit verification, and billing and payment. The homecare sector faces many challenges, including labor shortages and an aging population. AlayaCare's solutions help homecare agencies lower the cost of care while achieving better outcomes for clients.

With support and funding from Scale AI, AlayaCare has built and integrated a number of AI-based innovations to better meet the needs of homecare agencies and to differentiate the company in a highly competitive market. Visit Optimizer, AlayaCare's homecare visit scheduling optimization tool, is one such AI-based innovations.

AlayaCare built Visit Optimizer to augment homecare agency coordinators' roles and help them optimize homecare workers' schedules by automatically matching workers to open visits based on configurable objectives. Now fully integrated into the AlayaCare platform, the solution has reduced hours of scheduling work to 10 minutes or less, achieving a 30% cost reduction and maximizing homecare workers' time delivering care. The company is now collecting data to establish how AI-optimized scheduling reduces carbon emissions from workers' travel.

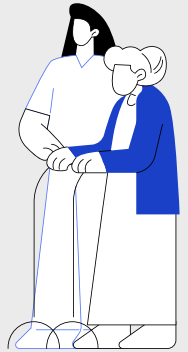
AI-powered innovations like this have enabled AlayaCare customers across North America and Australia to achieve business efficiencies and improve care delivery. They're also contributing to AlayaCare's revenues, and have enabled the company to successfully penetrate the lucrative US market and position itself as a credible, progressive alternative to the solutions currently available to large US homecare providers.



Scale AI has allowed us to accelerate our innovation roadmap and grow our revenues in partnership with our customers and academia.

**Naomi Goldapple**

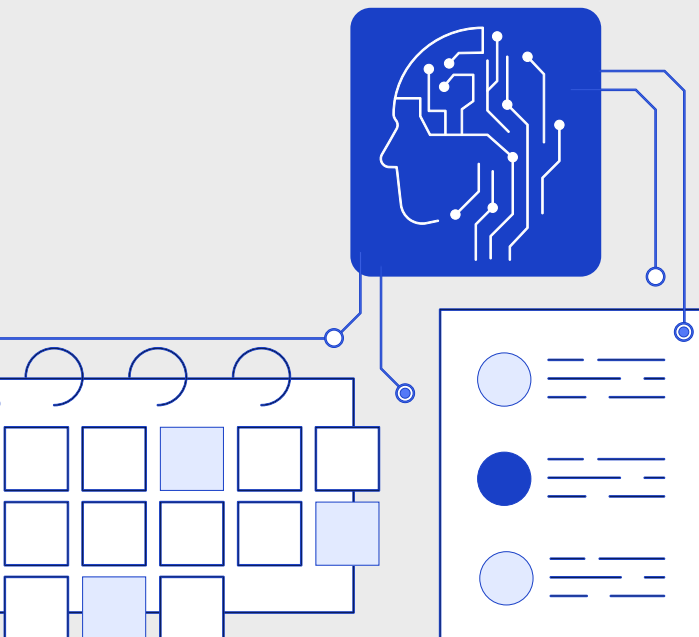
Senior Vice-President of Data and Intelligence,  
AlayaCare



Visit Optimizer has become an indispensable part of our operations, empowering us to navigate the complexities of home care with clarity and efficiency. By leveraging data-driven insights, we make informed decisions that truly serve our clients.... This technology not only streamlines what once required multiple people but also frees our compassionate team from tedious tasks – allowing them to show up fully present, radiant, and ready to provide the human support our community truly needs.

**Ashley McLellan**

Vice President, Operations  
Bien Chez Soi (an AlayaCare partner)





## Case study: Pratt & Whitney Canada



# Building a better supply chain with AI

Pratt & Whitney Canada is a global aerospace leader based in Longueuil, Québec, providing next-generation engines that power the largest fleet of business, general and regional aircraft and helicopters worldwide.



'The 'AI tsunami' is coming. Scale AI can help you be ready for it. They de-risk your AI projects and help you undertake them in a managed way—so when the tsunami arrives, you're positioned to thrive.

### Reza Kameshki

Senior Technical Program Manager  
Artificial Intelligence Transformation  
Pratt & Whitney Canada



More than 69,000 engines are in service in more than 195 countries and territories, servicing over 42,000 aircraft for 16,000 customers that transport goods and equipment, put out forest fires or carry passengers.

Pratt & Whitney Canada serves its customers with a network of more than 40 maintenance, repair and overhaul (MRO) facilities and seven global parts distribution centres. This network relies on more than 430 suppliers (more than 100 of which are small and medium Canadian enterprises) to maintain inventories of over 40,000 active part numbers for 175 engine models.

The aircraft Pratt & Whitney Canada support typically fly unscheduled routes, which results in unpredictable parts demand, impacting inventory levels and supply chain constraints.

Pratt & Whitney Canada teamed up with Scale AI, Canada's Global AI Innovation Cluster based in Montréal, and other companies to build an AI-driven solution to support decision-making across its entire spare parts organization, comprising four modules:

- Intelligent forecast for new/used parts – AI algorithms leverage an array of data signals to forecast demand.
- New/used part recommender – AI monitors open and upcoming work orders and provides a recommendation taking into account inventory levels, work order details, and customer preferences.
- Integrated inventory control system – AI leverages diverse data to optimize stock levels of new and used parts across the P&WC supply chain.
- Intelligent forecast of maintenance events – AI is used to identify patterns and signals to predict maintenance, enabling sales teams to proactively contact customers.

These models are underpinned by a suite of custom-built data products. The initiative aims to reduce engine overhaul turnaround times, lower forecasting error, and increase analyst productivity and planning agility in aftermarket operations.



Our business is growing, and that means more complexity. AI can help us navigate greater complexity and increase productivity without increasing overhead—enabling our people to focus on more satisfying work.

### Reza Kameshki

Senior Technical Program Manager  
Artificial Intelligence Transformation  
Pratt & Whitney Canada





# The Successful Bet of Scale AI: A Robust AI Ecosystem Contributing to Canada's Economy

As Canada's only pan-national platform entirely dedicated to advancing the country's AI leadership, **Scale AI acts as a strategic engine of investment and innovation.** We accelerate the deployment of cutting-edge AI technologies across sectors, empower Canadian AI solution providers to scale globally, and solidify Canada's position as a global leader in AI.

Our ambition is bold: to **build a world-class AI ecosystem** anchored in Canadian strengths, driving productivity, competitiveness, and prosperity across the entire economy.

We truly believe that AI developed in Canada is not merely a scientific or technological asset—it is a **strategic lever for economic performance, job creation, and national sovereignty.** By anchoring innovation in real-world applications, Scale AI helps transform artificial intelligence into a **driver of long-term prosperity, resilience, and leadership.** This is how we ensure that Canadian AI doesn't just keep pace—it defines the pace.

The coming years will be decisive in shaping Canada's role in the global AI landscape. To succeed, Canada must move from being an early leader in research to becoming a **builder of industrial strength.** This means creating the conditions to scale homegrown innovations, nurture mission-driven companies, and deploy AI across the economy—at speed and at scale.

Scale AI is contributing to this transformation by investing in the foundations of a **sovereign and productive AI economy:** infrastructure that we control, technologies that we own, and talent that we empower. Our vision is to make Canada not only a trusted AI partner on the world stage—but a country that **builds its future with its own tools.**




## About Scale AI

Scale AI is Canada's Global Innovation Cluster for artificial intelligence, dedicated to accelerating AI adoption, fostering commercialization, and building a resilient, innovation-driven economy. Headquartered in Montréal and operating nationally, we fund industry-led projects that integrate AI into core business operations, with a focus on value chain optimization, productivity, and sustainable growth. We work at the intersection of business, academia, and government—building the connective tissue of Canada's AI ecosystem. By co-investing in high-impact projects and nurturing a dynamic network of startups, service providers, and researchers, Scale AI transforms potential into performance.

From its inception, Scale AI has pursued two mutually reinforcing objectives:

1. Accelerate the adoption of AI technologies in Canadian businesses—particularly in operationally intensive sectors like supply chains, transportation, healthcare, manufacturing, agriculture, and logistics.
2. Build a robust, competitive ecosystem of Canadian AI product and service providers—supporting the commercialization of IP, fostering domestic scale-ups, and ensuring Canadian leadership in global AI markets.





## Appendix: Commons terms

**Artificial Intelligence or AI (for business):** Involves the use of artificial intelligence technologies to enhance and optimize business operations, such as supply chain and operations, marketing and sales, corporate IT, etc.

**AI Adopters:** Companies that leverage AI-driven solutions to enhance their primary business services/operations.

**AI Providers:** Companies whose core business is around development or enablement of AI-based services and solutions.

**Custom-Built AI:** Refers to tailored artificial intelligence solutions specifically designed to augment or substitute existing jobs functions. These AI systems are crafted to align with the unique needs and goals of an organization, either by supporting employees with intricate tasks or automating straightforward tasks to boost efficiency. By integrating smoothly into current workflows, tailored AI solutions deliver specialized insights and functionalities that generic, off-the-shelf products may not offer.

**Forecasts** focus on the near-term future and employ data to illustrate expected results.

**General Purpose or “Off the shelf” AI products:** Pre-built AI tools designed for quick deployment to address common business needs, such as data analysis, automation, and customer interaction. Examples include AI-powered chatbots, image recognition software, and predictive analytics tools.

**GenAI:** Generative AI, a type of artificial intelligence that can generate new content and ideas, including conversations, stories, images, videos, and music. It uses large language models (LLMs) and other advances models trained on massive datasets to identify patterns and produce human-like outputs.

**“Made in Canada AI”:** Refers to AI systems, solutions, products, and services that have been designed and developed by Canadian companies for anyone in the world to use.

**Projections** examine the future over a longer timeframe, considering various hypothetical scenarios to evaluate potential outcomes in those situations.



## About this report

Scale AI, a Canadian artificial intelligence (AI) cluster, has collaborated with Deloitte to analyze the impact of AI on the Canadian economy. The findings, contained in this report, highlight AI’s role in addressing **Canada’s productivity crisis** and the strategic importance of **Canadian-made AI amidst US trade tensions**. Our goal is for this report to inform government policy and support initiatives that position Canada as **a G7 leader in AI-driven economic growth**.

This report explores the **transformative impact of AI** on Canada’s economy, identifies **key Canadian industries poised to benefit from AI**, and showcases Canadian companies at the **forefront of AI innovation**, whether as AI providers or AI adopters. The report was developed using a diverse set of data sources, including Scale AI, PitchBook, LinkedIn Insights, Stats Canada, Quid, WIPO, Deloitte Global and McKinsey Global.

Multiple key performance indicators were reviewed as part of the research to comprehensively evaluate AI’s impact to Canada’s economy, including:

- AI talent
- intellectual property
- government funding
- venture capital investment.

Both quantitative and qualitative methods were used to extract insights on how AI adoption and Scale AI sponsored projects impact job augmentation across sectors to promote investment in high-impact industries.



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