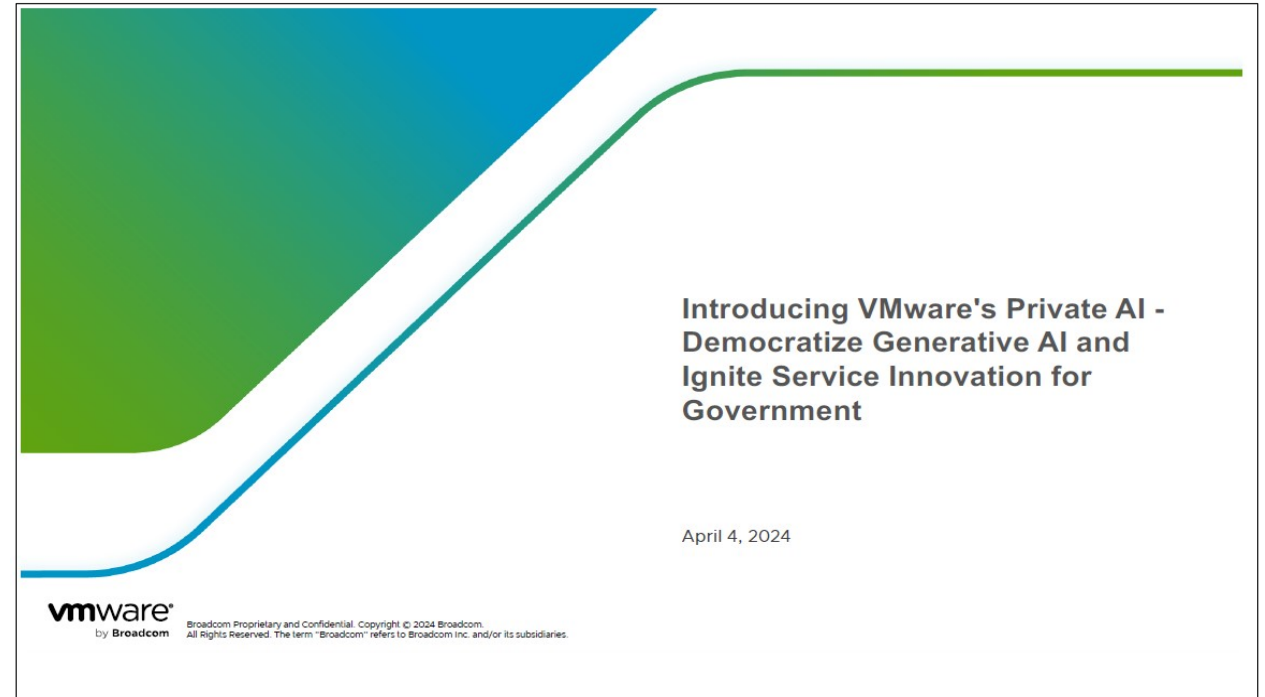




# Introducing VMware's Private AI - Democratize Generative AI and Ignite Service Innovation for Government





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April 4, 2024




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# Welcome - Agenda & Speakers:

## VMware's Private AI



**Andrew Walker**  
Government Relations

 PAA Advisory | Conseils  
<https://paainc.ca>



**Dan Nitta Mackay**  
Ecosystem Acceleration



**Danny Vitale**  
Federal CTO



**Rodney Helal**  
Canada Sales Leader



8:00am-9:30am	Registration and Breakfast
9:30am-9:40am	Introduction NVIDIA and VMware by Broadcom
9:40am-10:00am	PAA Remarks and Overview
10:00am-10:20am	Demystifying Generative AI
10:20am-10:40am	Use Cases and Perspective
10:40am-11:00am	Solution Overview – Private AI
11:00am-11:15am	Q&A and Wrap-up

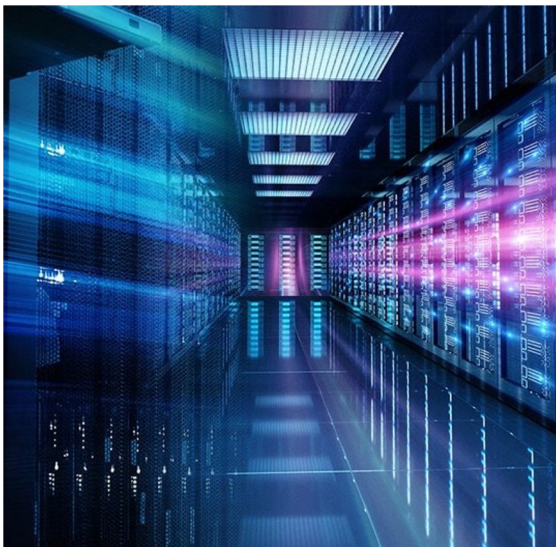
# Broadcom at a Glance (AVGO) – Semiconductors, Software



FY23 net revenue of **\$35.8B**



One of the industry's broadest IP portfolios with **>23,000** patents



**\$5.3B** investment in R&D in FY23



**26 Category-Leading** Semiconductor and Infrastructure Software Divisions



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# ChatGPT



**You**

How can one use AI to assist Government



You

## How can one use AI to assist Government

1. **Policy Analysis and Decision Making:** AI can analyze vast amounts of data to identify patterns, trends, and correlations, which can help policymakers make more informed decisions. Natural language processing (NLP) can be used to analyze public sentiment towards policies and identify emerging issues.
2. **Predictive Analytics for Public Services:** Governments can use AI to predict demand for public services such as transportation, healthcare, and education. For example, predictive analytics can help optimize public transportation routes based on historical data and real-time information.
3. **Fraud Detection and Prevention:** AI algorithms can be used to detect fraudulent activities such as tax evasion, welfare fraud, and procurement fraud. Machine learning models can analyze large datasets to identify suspicious patterns and anomalies.
4. **Public Safety and Security:** AI-powered systems can enhance public safety and security by analyzing data from surveillance cameras, social media, and other sources to detect criminal activities and threats. These systems can also be used for predictive policing to allocate resources more effectively.
5. **Healthcare Management:** AI can assist in managing healthcare systems by analyzing electronic health records to identify disease outbreaks, predict patient admissions, and optimize resource allocation. AI-powered chatbots can also provide citizens with information about healthcare services and assist in scheduling appointments.
6. **Smart Cities:** AI technologies can be used to develop smart city solutions that improve urban planning, transportation, energy management, and environmental sustainability. For example, AI can optimize traffic flow, reduce energy consumption, and manage waste more efficiently.
7. **Disaster Response and Management:** AI can help governments respond to natural disasters and other emergencies more effectively. For instance, AI-powered drones can be used for disaster reconnaissance, while machine learning algorithms can analyze social media data to identify areas in need of assistance.
8. **E-Government Services:** AI-powered chatbots and virtual assistants can automate interactions with citizens, providing them with information and assistance on government services such as tax filing, permit applications, and license renewals.
9. **Data Governance and Privacy:** AI can assist governments in ensuring data governance and privacy compliance by identifying and mitigating potential risks, such as unauthorized access or data breaches.
10. **Ethical AI Regulation:** Governments can use AI to develop regulations and standards for the ethical use of AI technologies, including guidelines for fairness, transparency, and accountability.

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# ChatGPT

Overall, AI has the potential to significantly enhance the efficiency, effectiveness, and responsiveness of government services across various domains. However, it's essential to address potential challenges such as data privacy, bias, and ethical concerns to ensure that AI is used responsibly and ethically in the public sector.

# Core Challenge

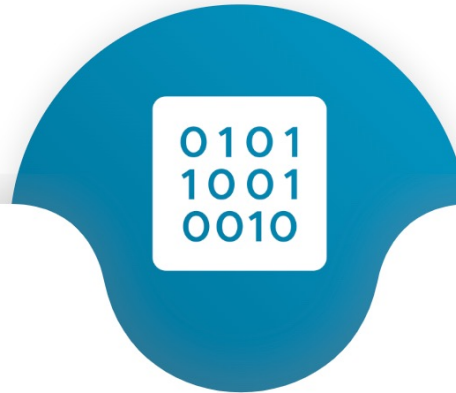
## Privacy

### Private Intellectual Property



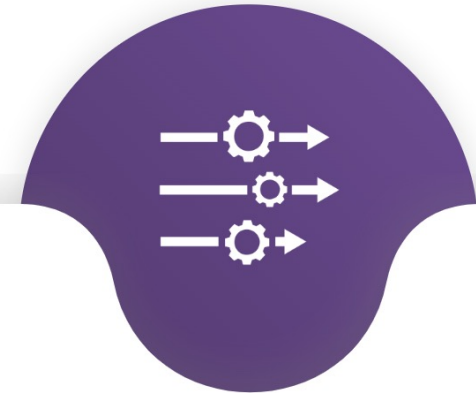
“I need to minimize my intellectual-property risk.”

### Private Data



“I need to ensure my private data will never be shared externally.”

### Private Access

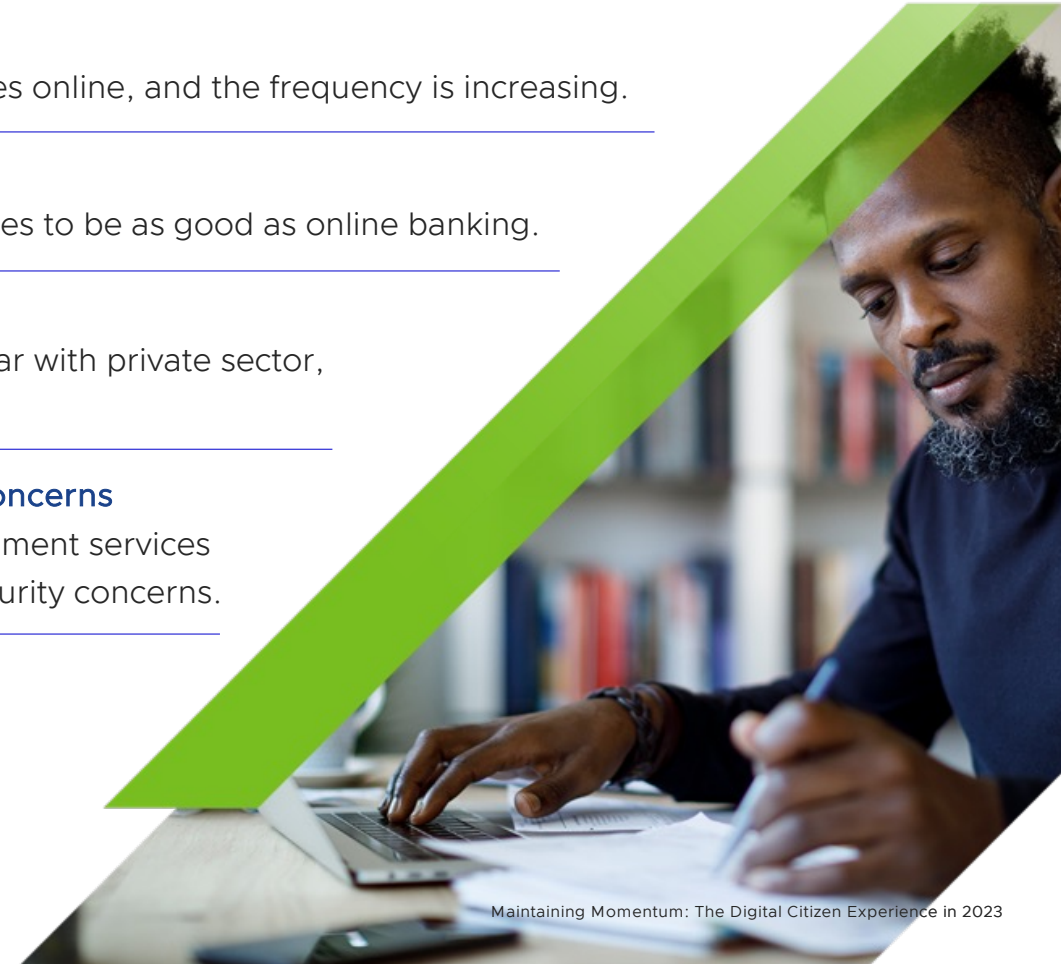


“I need complete control over access to my AI models.”



# The Digital Citizen Experience in 2023

- 01 Momentum is Growing**  
Most Canadians have accessed government services online, and the frequency is increasing.
- 02 Expectations Remain High**  
85% of Canadians expect digital government services to be as good as online banking.
- 03 Government is improving but has more to do**  
Only 42% feel government digital services are on par with private sector, but that is a 17% improvement over last year.
- 04 Customer Service and Security are the biggest concerns**  
The top reasons that people want to access government services in person are to have questions answered, and security concerns.
- 05 Better is Possible**  
We have worked with governments across the country around the world and know what it takes to deliver for citizens.



## Questions around AI remain

Canadians are generally comfortable with government using AI; however, they do not feel there are currently sufficient guidelines or regulation in place.

- Canadians are comfortable with government using AI to



**53%**

Prevent cyber security attacks



**49%**

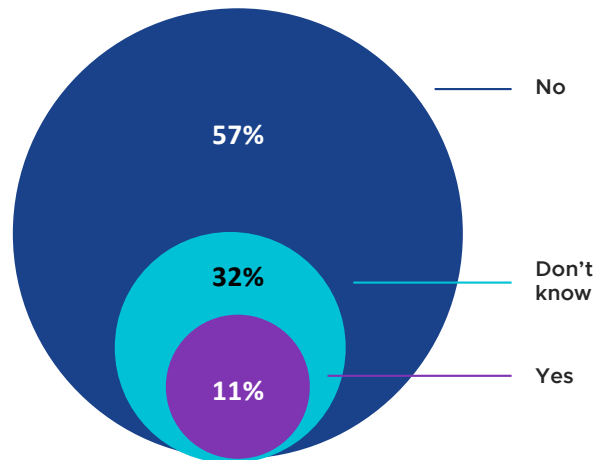
Automate routines tasks



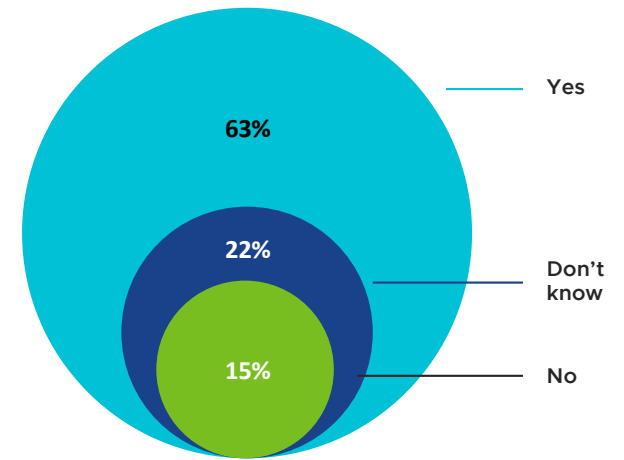
**47%**

Provide 24/7 customer service

- Are sufficient guidelines in place for government to use AI



- Should government regulate AI in the private sector



# VMware Private AI Foundation with NVIDIA

## Unlock GenAI and unleash productivity

### VALUE PROPOSITION

VMware Private AI Foundation with NVIDIA is a joint GenAI platform by Broadcom and NVIDIA, which helps enterprises unlock GenAI & unleash productivity. With this platform, enterprises can deploy AI workloads faster, fine-tune and customize LLM models, deploy retrieval augmented generation (RAG) workflows, and run inference workloads in their data centers, addressing privacy, choice, cost, performance, and compliance concerns.

### ARCHITECTURE



VMware Cloud Foundation™



NVIDIA AI Enterprise

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### VALUE



**Enable** Privacy, Security & Compliance for AI Models



**Simplify** GenAI Deployment and Optimize Costs



**Accelerate** performance regardless of the selected LLM

 NVIDIA



Thank You

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## And support investments to improve them

Canadians are supportive of further investments in digital infrastructure, with three quarters believing they should already be able to access all government services online, and the majority expecting a digital-only government within 10 years.

- The importance
- of digital government



**75%**

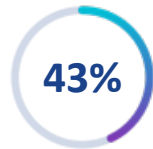
say they should be able to access all government services online today.



**62%**

agree improving digital services is an important use of taxpayer dollars.

- Government should
- be digital only



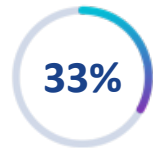
In the next **5 years**



In the next **10 years**



In the next **15 years**



**Never**

- Committed to accessibility



**76%**

agree digital government should be inclusive of those with accessibility challenges.



**75%**

agree digital services should be accessible for those who cannot afford the latest technology.



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