

Enabling Reliable Agentic Al Through Unified Data and Business Context

A Government Perspective



Étienne Pelletier



Flyers would be more impactful if...

They knew that:

I have 3 teenage boys that eat like ogres
They have coeliac disease (gluten allergy)
I live within walking distance of 5 grocery stores
I don't drink Pepsi
I love blueberries

This flyer required

8 Weeks 15 People

But someone's working on it

2 Weeks3 People





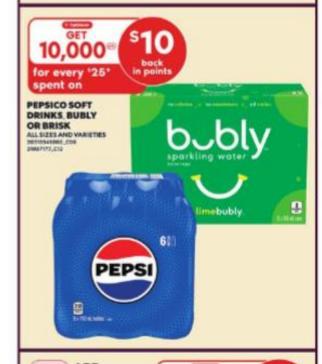












Chatbot or Agentic?

It Depends



For Power BI users, chatbots act as an add-on that lets them generate new queries on the fly, meeting evolving business questions faster than data teams can build new reports.

For non-technical people, Generative AI is what Power BI is for analysts. Ask questions in plain language and get answers, charts, or simple reports







Chatbot	Agentic Al
Effective within predefined work patterns	Adapts to changing expectations and goals
Follows pre-defined processes	Learns and improves in real-time
Manual intervention required for multi-query orchestration	Makes autonomous decisions, understands context
Basic automations for simple tasks	Advanced automations, workflow optimization and cost reduction

Agents are AUTOMATION tools

For a COO, Agentic AI drives operational efficiency by triggering corrective actions across systems without waiting for human intervention."

For any data user, Agentic AI goes beyond Q&A to execute multi-step data workflows autonomously,

What if you worked with this gentleman?

"How will Canada's GDP growth over the next 5 years be impacted if we accelerate clean energy investment, factoring in global commodity demand, domestic employment trends, and fiscal pressures from provincial budgets?"

- "...and what if tariffs increase by another 10%?"
- "...and compare with U.S. economical projections."
- "...and show fiscal stress by province under each case."





Public Sector Agentic Al Use Cases

Just a few examples...

Service Delivery & Citizen Support

- Automated eligibility checks and benefit optimization
- •Guided application support for immigration, visas, or student permits
- •Smart triage for Service Canada inquiries
- Personalized retirement or benefits planning agents for citizens
- •Multilingual (English, French, Indigenous languages) real-time information agents

Compliance, Oversight & Risk Mgt

- Fraud detection and case preparation
- Trade compliance monitoring agents
- Health Canada regulatory scanning
- •Cybersecurity response agents for Shared Services Canada
- •Audit preparation assistants for Office of the Auditor General

Procurement & Financial Management

- Automated vendor qualification checks in procurement
- •Contract monitoring agents that flag risks like delays or cost overruns
- •Grant and subsidy application screening to ensure compliance with Treasury Board rules
- •Spending analysis agents that suggest efficiencies across departments



Al in Federal Government

Responsible use of automated decision systems in the federal government

By: Benoit Deshaies, Treasury Board of Canada Secretariat; Dawn Hall, Treasury Board of Canada Secretariat

Automated decision systems are computer systems that automate part or all of an administrative decision-making process. These technologies have foundations in statistics and computer science, and can include techniques such as predictive analysis and machine learning.



Government of Canada finalizes investment to support Canadian-Born Al leader, Cohere

From: Innovation, Science and Economic Development Canada

News release

Investment will boost domestic compute capacity to strengthen the Canadian AI ecosystem

March 20, 2025 - Ottawa, Ontario

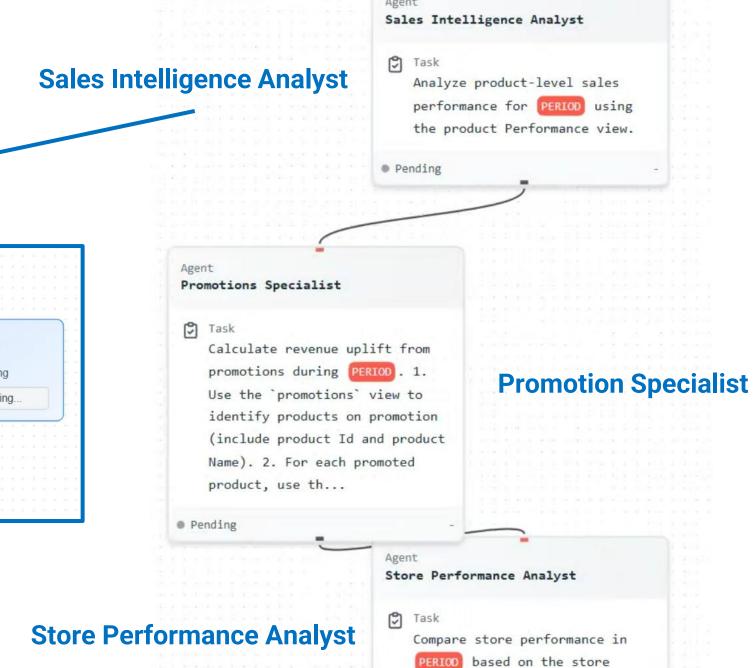
Today, the Honourable Anita Anand, Minister of Innovation, Science and Industry, announced that the Government of Canada has finalized its investment of up to \$240 million in <u>Cohere Inc.</u>'s \$725 million project to bring domestic compute capacity to Canada and support the development and scaling of AI capabilities here at home.





How does it work? (1/2)

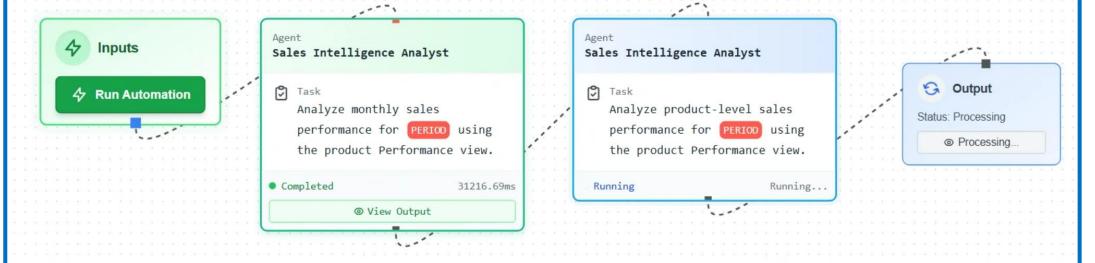
Specialized agents collaborate within a workflow



Performance view.

Store Performance Analyst

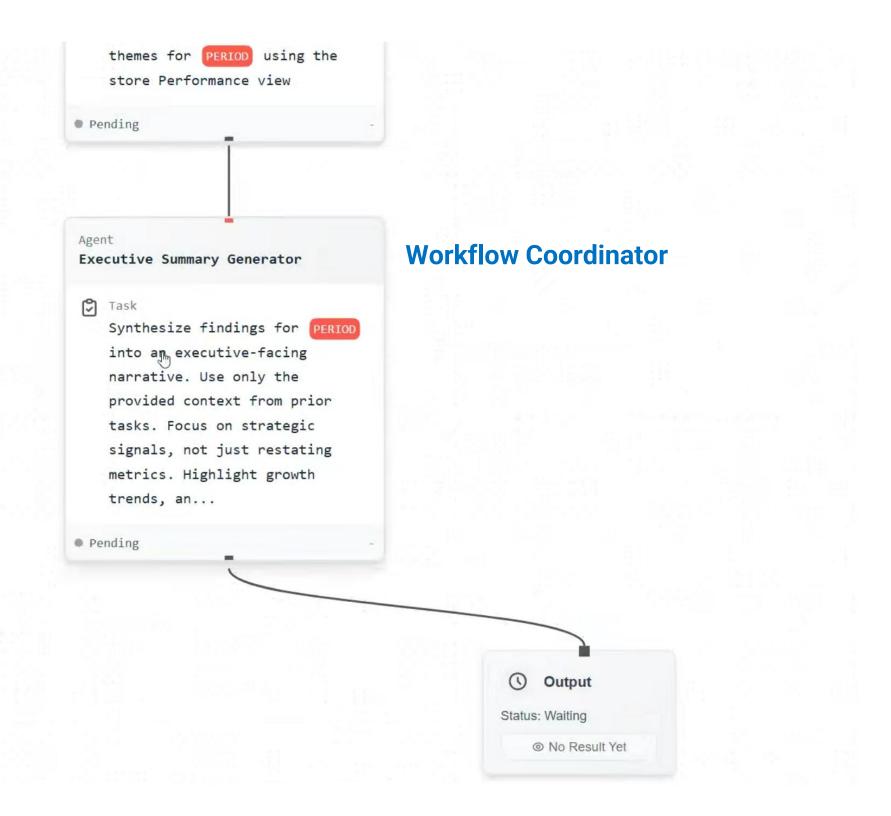
Pending





How does it work? (2/2)

Tasks and results are coordinated by a "Master" agent that delivers the answer to the interface



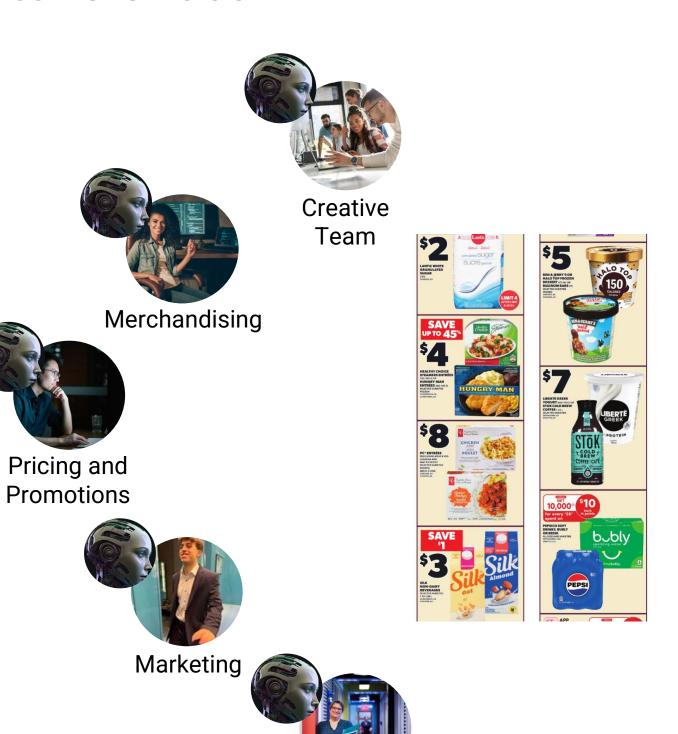


Put Yourself In The Coordinator's Shoes

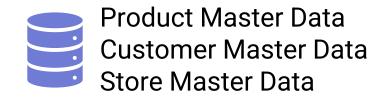
How do I satisfy

this human?

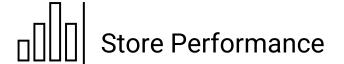
Coordinator

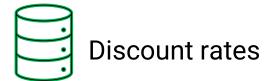


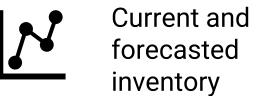
Legal























Étienne



Managing Complex Considerations



Pace of Innovation

- Constant flow of requirements
- Continuous delivery of data
- Dependencies on deliverables



Uncertainty

- Changing data requirements
- Unknown sources and structures
- Potential competing projects



Globalization

- Multiple Time Zones
- Multilingual
- Disparate data



Multimodal

- Model connectivity
- Analyst accessibility
- Business interpretability



Volatility

- Imminent cloud migration
 Imminent ERP migration
- Decommissions/New platforms



IP Protection

- Trade Secrets form 3rd Party
- Safeguard other IP
- Ensure distinction via Data



Transformation

- Enterprise-Wide Transformation
- Project guided transformation
- Dependent transformations



Supportability

- Enterprise-Level support
- Long-term support
- Continuous Delivery

How can we be agile and stable with so much going on!!!

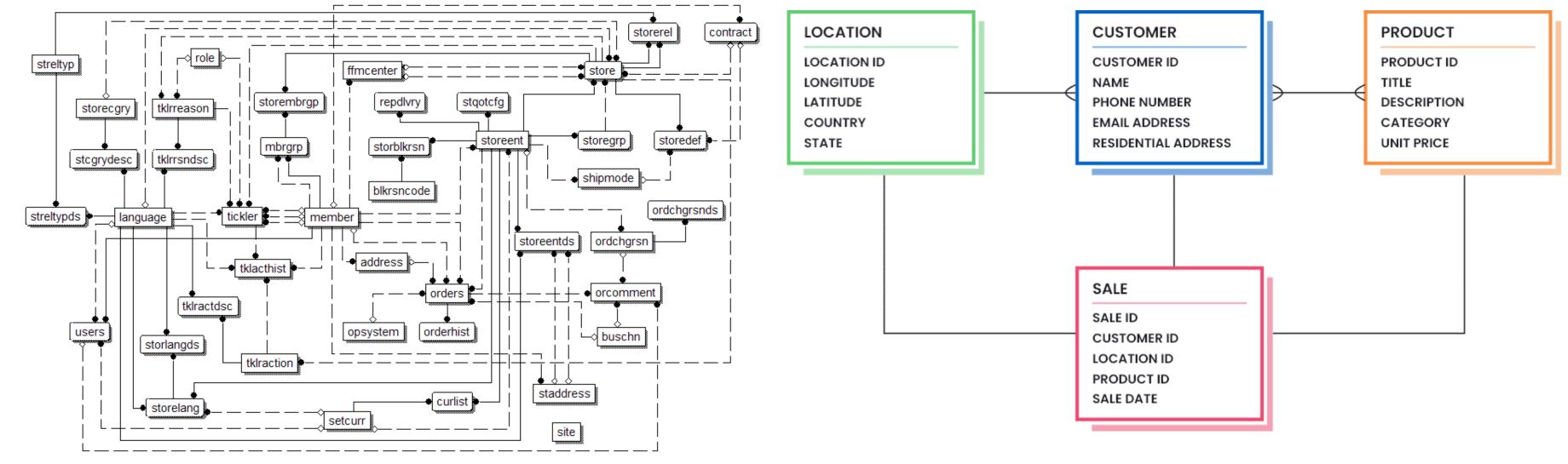
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Data Must Make Sense to Humans... and Agents



RAW DATA

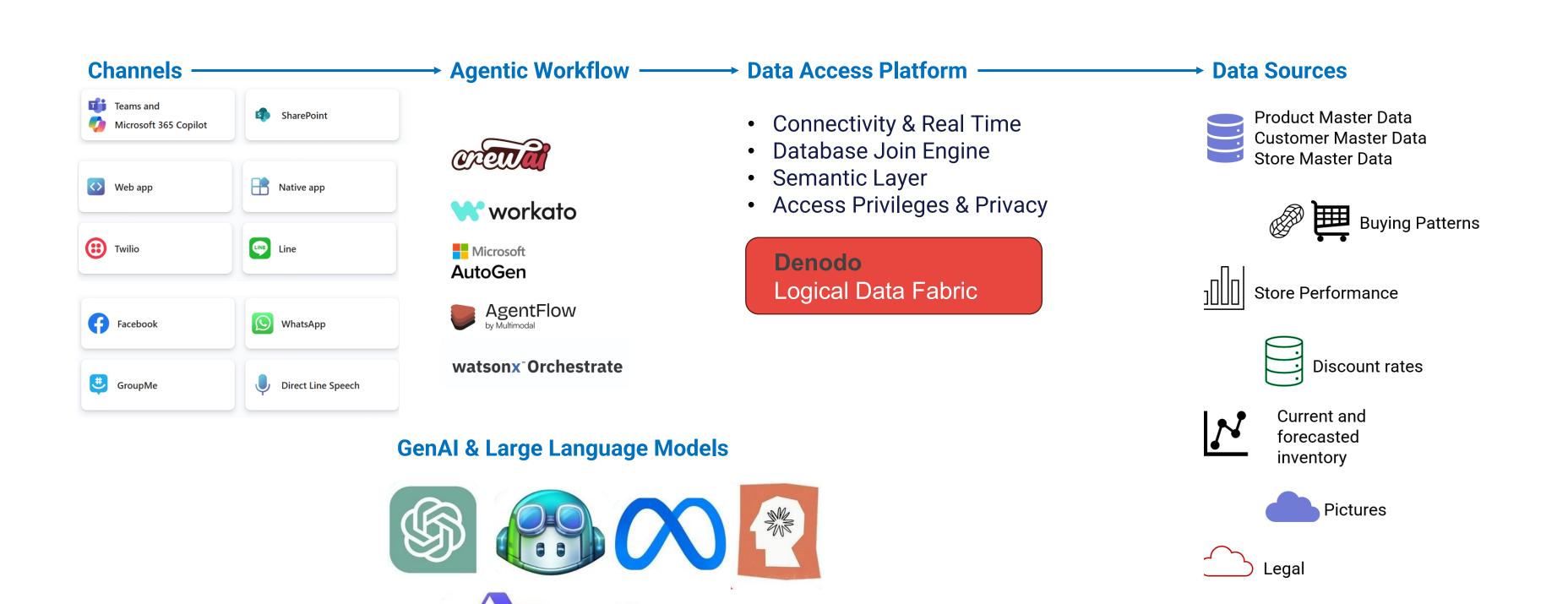
Study: *Increasing the LLM Accuracy for Question Answering: Ontologies to the Rescue!* "...research showed that by using a semantic layer (ontology, knowledge graph) the accuracy improved from 16% to 54%."



denodo

SEMANTIC DATA

The End-to-End Agentic Flow





Competitive Analysis

External Events

13

denodo: Fearless Data

The Denodo Platform delivers data in the language of business, at the speed of business.

- Access and join data from anywhere
- Using the language of business
- ✓ Secure interface to data
- Governance and security
- Simplified interoperability





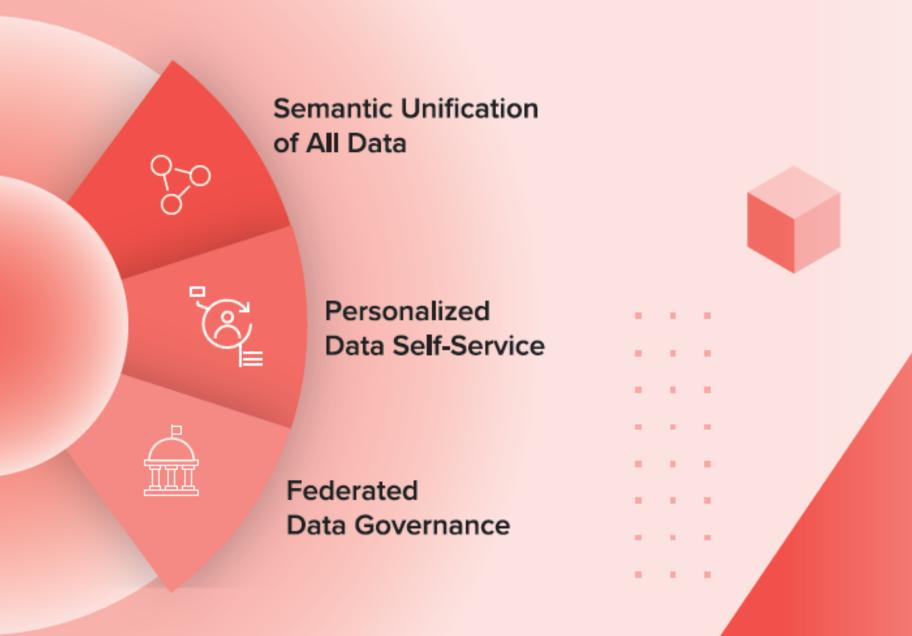
Key Takeaways

- Agentic AI is accelerating faster than your roadmap.
- Future-proof your data for autonomous intelligence.
- Redefine your expertise before the technology does it for you.



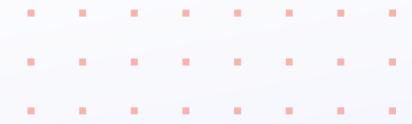
Transform Your Data Ecosystem for AI and Self-Service





Learn More

Visit the Denodo Booth
or contact
Carlisle Gomes cgomes@denodo.com

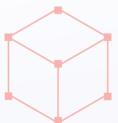




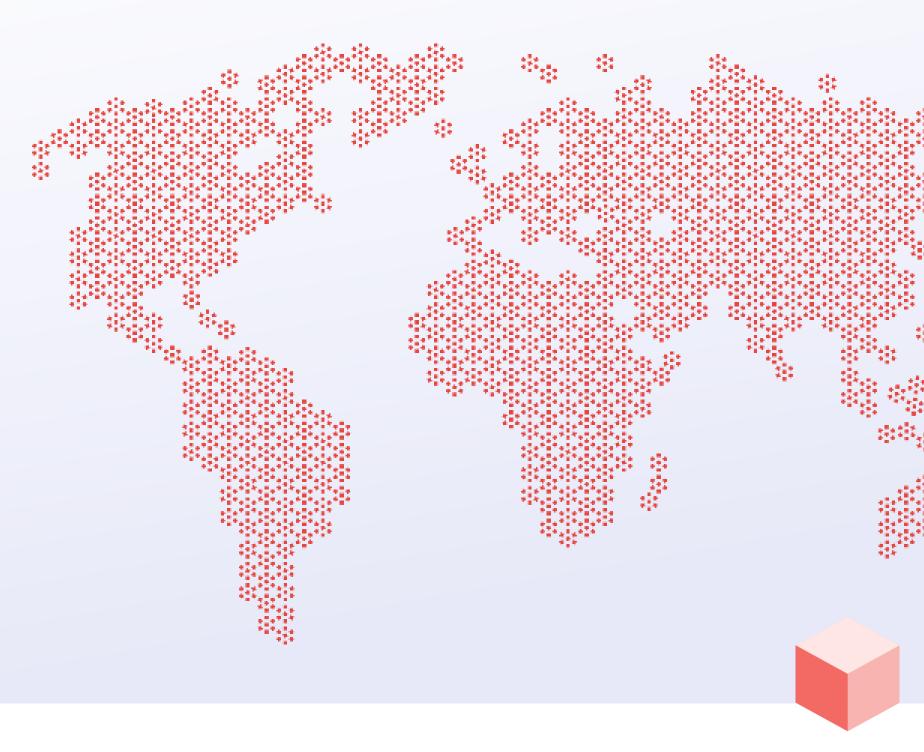








Thanks!





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