The long trek ahead…

The Gen AI (R)evolution

LLM   **RAG**   **Reasoning**   **Agentic AI**
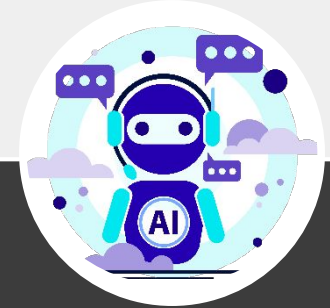
Language ⟩⟩⟩ Context ⟩⟩⟩ Planning ⟩⟩⟩ Action-taking

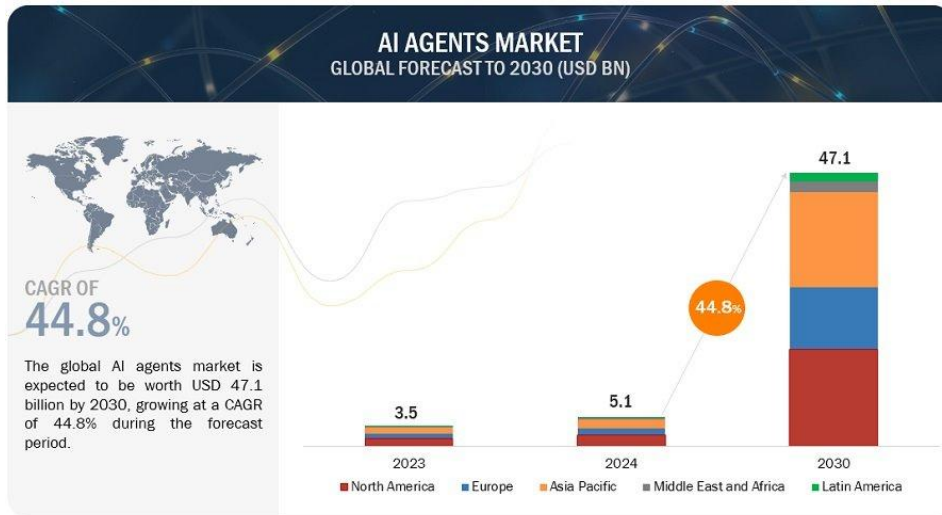|			
Predict the next best word or sentence.	Search for the right data from targeted knowledge anchors.	Decompose the prompt and assemble the best response / solution.	Autonomous agents with access to tools to trigger actions such as re-starting a service or generating a ticket.

AI AGENTS MARKET
GLOBAL FORECAST TO 2030 (USD BN)

CAGR OF **44.8%**

The global AI agents market is expected to be worth USD 47.1 billion by 2030, growing at a CAGR of 44.8% during the forecast period.

47.1

44.8%

3.5   5.1

2023   2024   2030

■ North America ■ Europe ■ Asia Pacific ■ Middle East and Africa ■ Latin America

AI Agents to become the primary user interface and means of process automation.

Source: Gartner

The Enterprise Adoption challenge

Top 3 challenges for enterprise use of Generative AI

1. Variety and volume of data

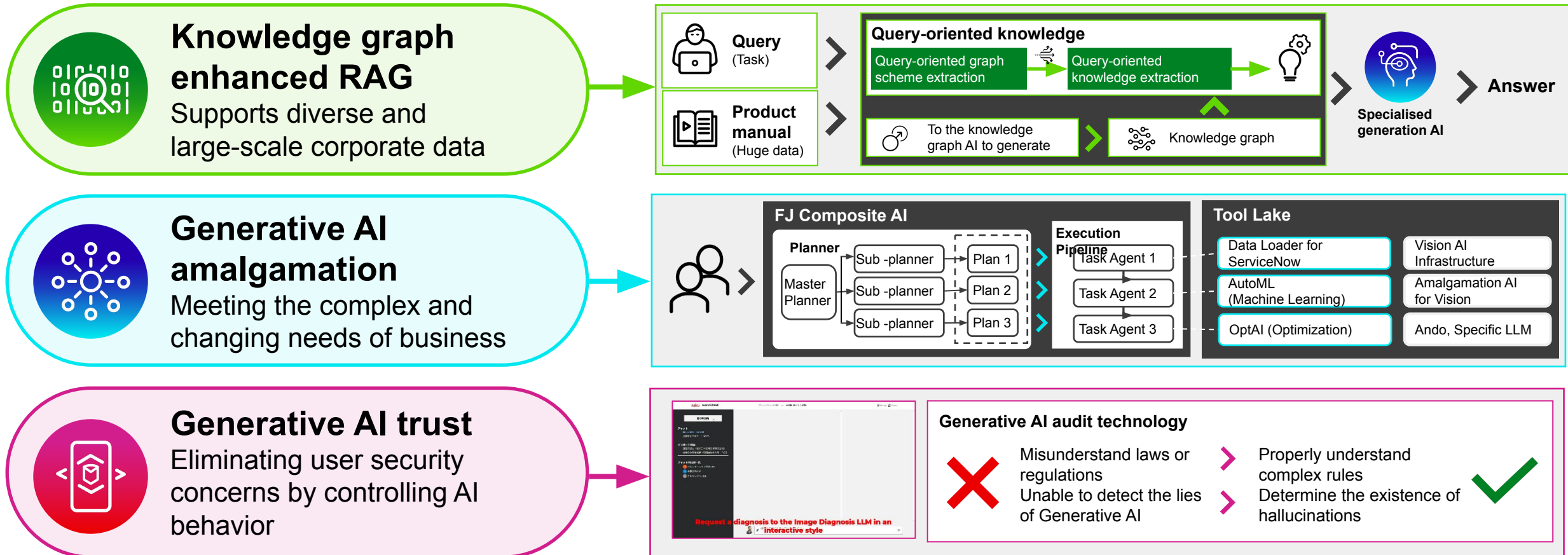2. Capture of business know-how and integration into existing workflows

3. Trust and compliance

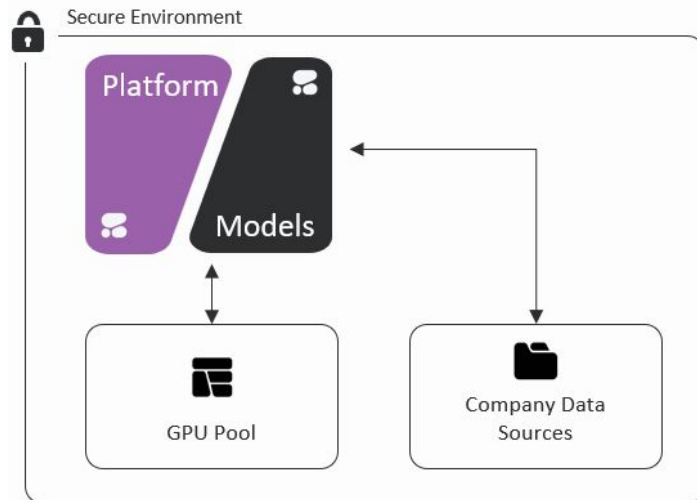# Enterprise Gen AI Framework

Enabling enterprise adoption of GenAI

Knowledge graph enhanced RAG
Supports diverse and large-scale corporate data

Query (Task)

Product manual (Huge data)

Query-oriented knowledge
Query-oriented graph scheme extraction → Query-oriented knowledge extraction

To the knowledge graph AI to generate → Knowledge graph

Specialised generation AI → Answer

Generative AI amalgamation
Meeting the complex and changing needs of business

FJ Composite AI

Planner
Master Planner → Sub-planner → Plan 1
→ Sub-planner → Plan 2
→ Sub-planner → Plan 3

Execution Pipeline
Task Agent 1
Task Agent 2
Task Agent 3

Tool Lake
Data Loader for ServiceNow
AutoML (Machine Learning)
OptAI (Optimization)
Vision AI Infrastructure
Amalgamation AI for Vision
Ando, Specific LLM

Generative AI trust
Eliminating user security concerns by controlling AI behavior

Request a diagnosis to the Image Diagnosis LLM in an interactive style

Generative AI audit technology

❌ Misunderstand laws or regulations
Unable to detect the lies of Generative AI

✅ Properly understand complex rules
Determine the existence of hallucinations

Fujitsu will focus on specialised LLM's for enterprise needs

A security-first approach to AI

Flexible technologies that support customization and private deployment

Secure Environment

Platform

Models

GPU Pool

Company Data Sources

Embedding security into the architecture of thru novel techniques

Strengthening security through collaboration between three agents

Defence scenario

Attack scenario

Cyber Twin*

Defence Agent (Blue)

Attack Agent (Red)

Impact Analysis

Test Agent (Green)

* Replica of IT environment

Responsible AI tools and best practices to measure adherence
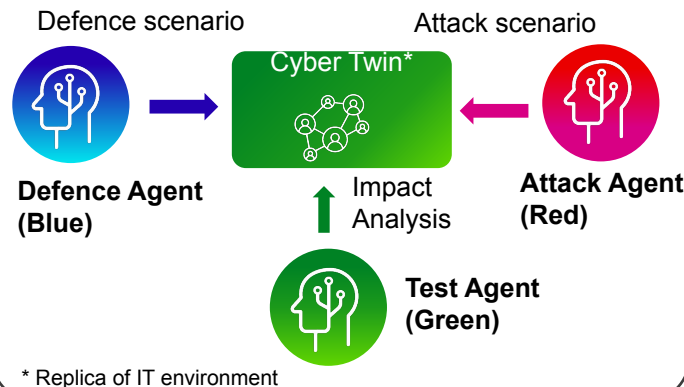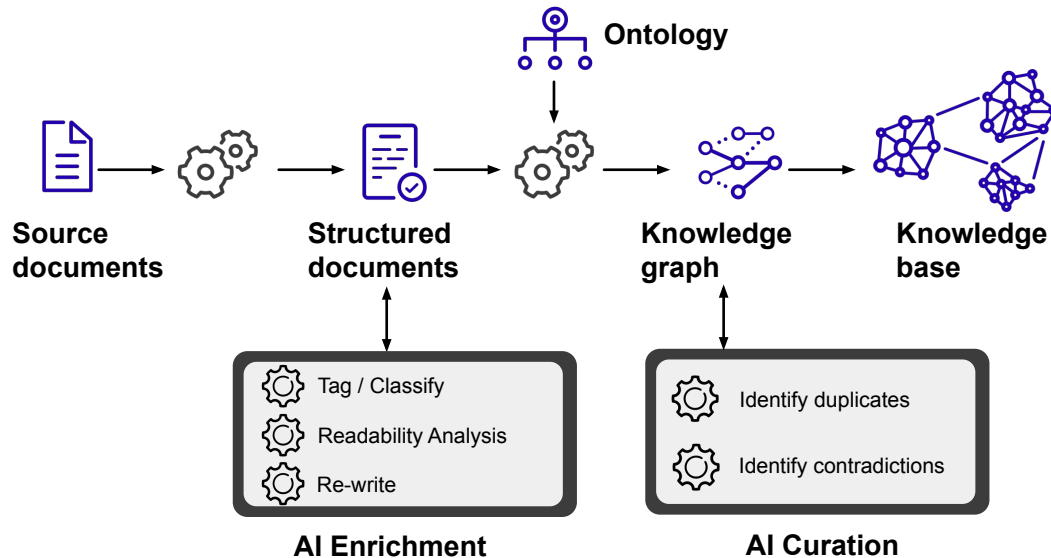
Technologies and Tools

- AI ethics impact assessment
- Bias detection
- Data and model security
- Model maintenance
- GenAI hallucination detection

Focus on outcomes and value

FUJITSU

Large Canadian Federal Department

Enhanced service delivery by standardizing and unifying knowledge bases and making knowledge AI-consumable

Source documents → **Structured documents** → Ontology → **Knowledge graph** → **Knowledge base**

AI Enrichment
- Tag / Classify
- Readability Analysis
- Re-write

AI Curation
- Identify duplicates
- Identify contradictions

Outcomes

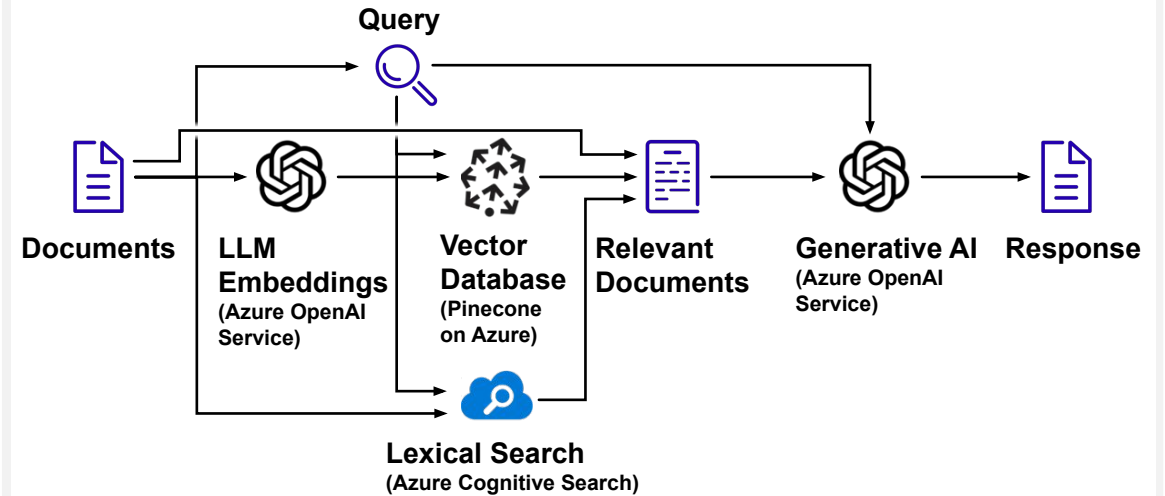Shorter responses **67%** of the time

About **2x** more faithful answers

Significant reduction in manual effort leading to **lower costs**

Canadian Hydroelectric Company

Search and summarization of knowledge across the organization to accelerate response to regulatory information requests

Documents → **LLM Embeddings** (Azure OpenAI Service) → Query → **Vector Database** (Pinecone on Azure) → **Relevant Documents** → **Generative AI** (Azure OpenAI Service) → **Response**

Lexical Search (Azure Cognitive Search)

Outcomes

Reduced time for response preparation **by over 50%**

Significant cost savings

Thank you

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