



# FEDERAL AGENCY

## Improving Organizational Visibility with GenAI

### OVERVIEW

A high-profile government research laboratory contracted 11:59 as they began a time-sensitive project to integrate and leverage external technical data to enhance their internal knowledge base. The project's core objective is to provide laboratory personnel, researchers, and partners with streamlined access to a comprehensive repository of information, fostering collaboration and accelerating innovation to strengthen the nation's cybersecurity posture.

### CHALLENGE

The laboratory faced challenges integrating scattered external data, harmonizing diverse formats, ensuring scalability for growing demands, and maintaining strong security to protect sensitive research.

### LLM-POWERED PLATFORM

11:59 developed a comprehensive data integration platform with a strong architecture, security, and scalability. The data is displayed in a semantic knowledge graph to structure research insights. Role-based security controls safeguarded sensitive information, while an advanced search engine with RAG capabilities enabled users to retrieve accurate, context-aware insights seamlessly.

### SOLUTION

#### Approach

11:59 created a GenAI pilot to provide visibility into multiple areas across the agency's operations. The pilot was built using large language models, network and knowledge graphs, complex data engineering, and real-time integrations. All of these together demonstrated the transparency that GenAI can offer complex organizations.

#### Outcome

11:59 met with this agency's Chief Data Officer and other agency leaders in April 2024 to begin planning the deployment of a production version of the pilot across their respective groups.