# fluree™

## SUPERIOR SPEED, SIZE, SCALE, AND COMPLEXITY

Fluree's enterprise-grade Knowledge Graph system can answer complex questions that span your business and deliver insight across your organization.

### FAST QUERIES

Thanks to Fluree's horizontally scaling query servers and smart indexing, queries that could typically take minutes or hours are available in milliseconds.

### VS. Labeled Property Graphs

Labeled Property Graphs' need for multi-stage queries and manual synchronization across shards increases query complexity and latency, while systems like Fluree enable single-database querying (even across federated data) for consistent low-latency performance.

### HANDLES LARGE DATA VOLUMES

Fluree can easily scale to any amount and type of data. Using a decentralized architecture with built-in semantic interoperability, data held across multiple domains are Findable, Accessible, Interoperable, and Reusable.

### VS. Labeled Property Graphs

Labeled Property Graphs often struggle with large datasets due to their single-server architecture, which can lead to performance bottlenecks and memory limitations as data grows, unlike Fluree's decentralized design that scales seamlessly.

## FLUREE THRIVES IN COMPLEX ENVIRONMENTS

Analytics across various domains, data, and metadata are typically difficult to accomplish without a major and ongoing data engineering investment. Fluree makes it possible.

### ONBOARD ANY DATA FORMAT, FROM ANY SOURCE

Fluree can ingest and classify any type and amount of data using AI auto classification. Get your knowledge graph up and running faster.

### CROSS-DOMAIN INTEROPERABILITY CONNECT THE DOTS

Fluree uses open world semantic interoperability that enables information from various sources to be combined and connected without ambiguity.

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### SOLUTION LICENSING

→ Cloud-based setup fully managed and secured by Fluree
→ Can be deployed in your own cloud or on-prem
→ Implimentation takes just 6-8 weeks

### Ready To Learn More?
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Contact our sales team sales@flur.ee

# BUILDING A SECURE DISTRIBUTED KNOWLEDGE GRAPH

Fluree is the underlying backbone technology behind US DoD DataHub solution, a highly secure Data Marketplace describing intelligence Data assets.

## CHALLENGE:

### Fragmented Data Across DoD

US Department of Defense was in the process of shifting from a need-to-know to a need-to share data architecture. This involves connecting data from across multiple data domains into a single query interface, with policies built-in.

However, existing data silos posed a challenge to enabling data collaboration and analytics, preventing the DOD from making decisions based on comprehensive information.

## IMPACT OF CHALLENGE

- Limited analytics

- Poor decision-making

- Slow time-to-analytics

## BARRIERS TO SUCCESS

- Fragmented Data Sources

- Complex security protocols

- Varying data formats and schemas

## FLUREE SOLUTION

Fluree was contracted by the US Department of Defense to increase data sharing and secure data analysis across a wide variety of data sets held in different departments and domains.

**ACHIEVING SCALE & COMPLEXITY**

Fluree provided the tooling to register data sets into a distributed knowledge graph, opening up analytical query capability never before possible within the DOD.

**MAINTAINING SECURITY**

Fluree's SmartFunctions enable data to "defend itself" and programmatically enforce complex, and relationship-based data access policies.

💡 **Key Result:** Cutting time-to-analytics from as long as 6+ months to minutes.