datagraphs

Knowledge Graph Platform

Built to support governed, AI-assisted workflows. Engineered for performance. Designed for users.

Data Graphs - Service Definition

Digital Marketplace: G-Cloud 15

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A knowledge graph cloud service by Data Language

Data Graphs - Service Overview

Unified Semantic Layer

Data Graphs is a managed knowledge graph service that connects fragmented data across systems through a shared semantic layer. It transforms data and metadata into a governed semantic backbone using explicit schemas, controlled vocabularies, and managed relationships for consistent discovery, interoperability, and reuse.

Built-in Governance

The service reduces manual metadata effort, significantly improving data quality, ownership, lineage, and auditability. This robust approach supports strong compliance and long-term information governance within the organisation.

No-Code Access

With no-code, natural-language search and secure, standards-based APIs, both business and technical users can access trusted information. This reduces the need for custom development, streamlining data retrieval for a broad range of stakeholders.

AI-Ready Foundation

Data Graphs provides a governed foundation supporting responsible, auditable AI-assisted workflows, particularly in regulated environments. This foundation ensures that AI initiatives leverage trusted, compliant data effectively and ethically.

Why organizations use the Data Graphs service

Data Graphs provides a shared semantic foundation that enables reliable discovery, reuse, and AI-ready information across public-sector systems.

The Challenge

- Fragmented data across multiple systems limits reuse and insight
- Manual metadata and reference data management increases cost and risk
- AI initiatives fail without governed, connected data foundations

The Solution

- The service connects fragmented data across systems into a unified semantic layer
- Reduces manual metadata effort while improving governance and quality
- Enables traceable, explainable, Agentic AI-ready information foundations
- Supports interoperability, auditability, and long-term data stewardship

Organisations currently using this service include

Government, Public Sector & Heritage

Semantic inventory management to support long-term information governance.

Healthcare

Governed evidence datasets supporting clinical analysis.

AgriTech/Agriculture

Reference data, digital labelling, and machine-readable crop protection information.

Media & Publishing

Centralised asset management supporting content discovery, reuse and hyper-personalisation.

Examples include:

- **News Corp** uses the Data Graphs service to provide a centralised reference knowledge graph for their Newspaper products.
- **TV2** uses the Data Graphs service to provide a knowledge graph to interconnect their content, analytics and user experiences for online news and sport.
- **Cochrane** uses the Data Graphs service as a reference data knowledge graph for their evidence-based clinical analysis. Cochrane is used by the WHO and medical practitioners globally.
- **UK Parliament** uses the Data Graphs service as a knowledge graph system for digital heritage inventory management and is exploring its use for the wider House of Commons Library.
- **Syngenta**, **CropLife Europe**, **Corteva** and other **AgriTech companies** use the Data Graphs service to power digital labelling and reference data management, ensuring machine-readable data for the EU-commissioned AgriGuide initiative.

Service features valued by users

Ease of Launch and Management

The service enables organisations to launch and manage a knowledge graph platform efficiently.

Intuitive User Interface

An intuitive user interface for data curation, search, discovery, query and graph navigation.

Comprehensive Integration

A comprehensive set of APIs, Webhooks, and Agentic MCP services to integrate with your apps or business systems.

From initial setup to live knowledge graph in days, not months

Typical setup: hours to days

No infrastructure provisioning required

Works alongside existing systems with no requirement for data or platform replacement.

1

1. Design your schema

The domain model shows your custom schema classes and properties.

2

2. Import Data

Import and map data into your knowledge graph via the UI or the API.

3

3. Integrate and launch

Use our API, webhooks and MCP services to integrate your knowledge graph with your other applications.

Key Features

Intuitive User Interface

An intuitive user interface supporting day-to-day data management tasks.

Powerful Search and Discovery

Powerful data search and discovery capabilities.

Comprehensive Integration

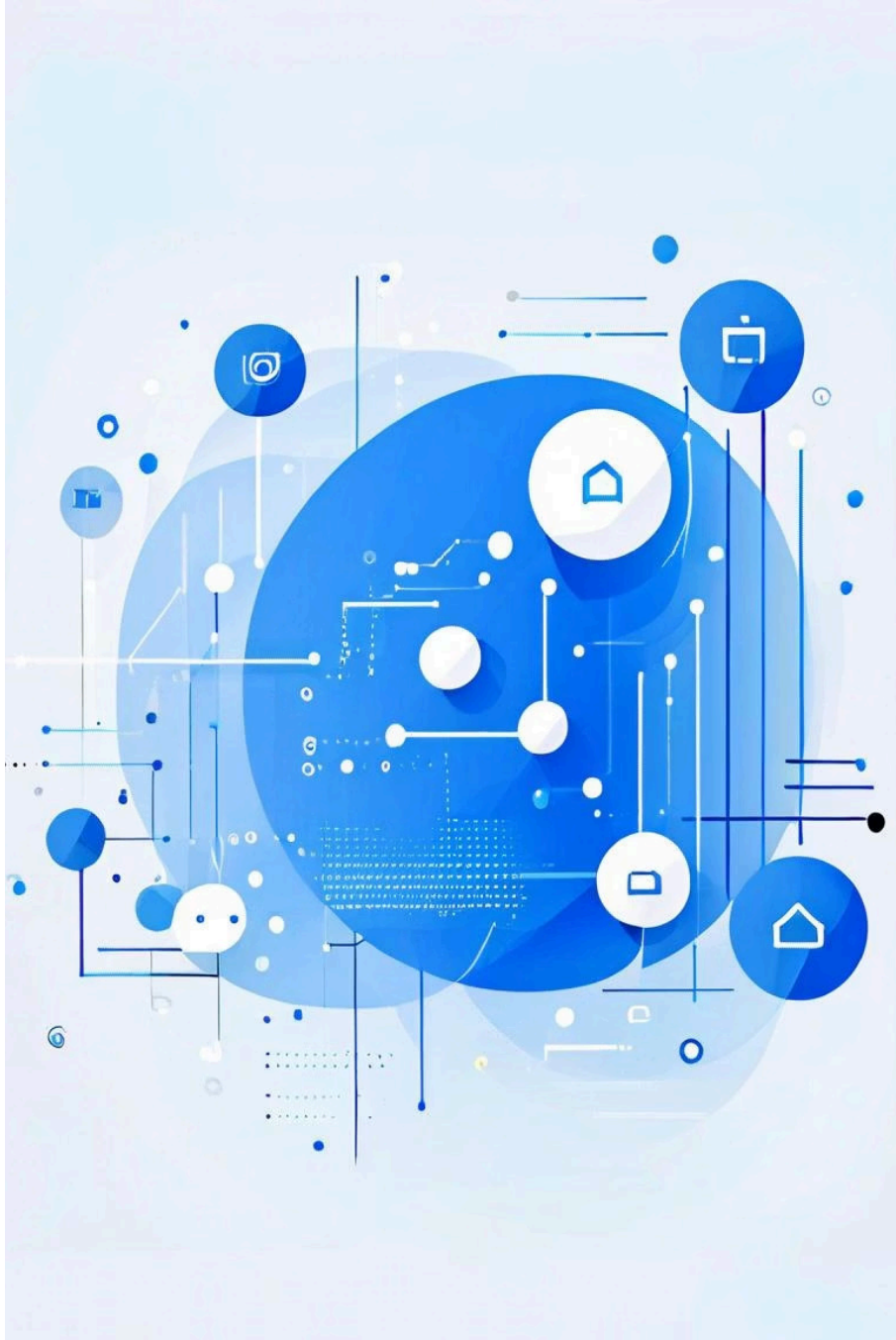
Comprehensive and secure APIs and Webhooks to integrate your systems.

Visual Graph Explorer

An intuitive visual graph explorer for navigating and understanding relationships.

Open Standards

Data Graphs is built upon open web standards. Its APIs and services integrate using JSON and JSON-LD payloads, compatible with W3C RDF standard. Graph query is supported through OpenCypher and ISO GQL.



The Technology

Proprietary Graph

The service uses a high-performance, scalable graph data platform designed to support large, complex datasets.

Graph Search Capabilities

Our graph search is designed to combine the power of graph metadata with enterprise-grade full-text search.

User Experience

The service provides an intuitive user interface for data curation, discovery, querying, and visual exploration of relationships.

GraphRAG

The increased adoption of AI and LLMs has increased the importance of governed contextual data. The Data Graphs service provides true hybrid retrieval-augmented generation (RAG) capabilities to provide structured, governed context to private and controlled AI models, natively or agentically.

Integration

The service provides flexible, scalable APIs and web services designed to integrate efficiently with existing business systems.

Agentic AI systems can integrate via our in-built MCP services.

Content & Media Graphs

Data Graphs provides first-class support for media assets within the knowledge graph.

The Data Graphs differentiators

Traditional graph databases

- Developer-led
- Infrastructure-heavy
- Complex query languages
- Limited governance and UI

Data Graphs Approach

- Business-led, self-service SaaS with role-based access controls
- Built-in governance, workflows, auditability
- Visual exploration + APIs
- AI-ready (GraphRAG, controlled, private LLM context, Agentic capable)

Typical AI Platforms compared to Data Graphs AI

Typical AI Platform Approach

Code-first, developer-led AI integration
AI and search require custom development, query languages, or prompt engineering expertise.

Limited or ungoverned natural-language access
Natural-language search is experimental, layered on top, or inconsistent across datasets.

Schema-light or loosely defined models
Data structures and vocabularies are often implicit, fragmented, or embedded in code.

Partial lineage and change tracking
Limited visibility into how data, metadata, or AI outputs were created or modified over time.

Predominantly machine-generated metadata
AI-generated tags and relationships with minimal human validation or stewardship.

Broad or implicit AI access to data
LLMs often operate with coarse-grained permissions or unclear data exposure boundaries.

Resulting Organisational Risks

- Increased data protection and privacy risk
- Risk of data exposure to external large language models
- Limited auditability of AI-assisted outputs
- Higher governance and compliance overhead
- Greater ethical and procurement risk for regulated organisations

Data Graphs AI-Powered Approach

No-code, business-led AI interaction
Natural-language search and discovery without custom development or query languages.

Consistent natural-language access across data
Search and AI interactions behave predictably across governed datasets.

Explicit, governed schemas and vocabularies
Clearly defined domain models with shared meaning across teams and systems.

End-to-end lineage and version control
Full visibility into how data, metadata, and changes evolve over time.

Human-curated with AI-augmented metadata
AI enhances tagging and relationships under human stewardship and review.

Fine-grained, role-based LLM access
Controlled exposure of information to private, secure AI models based on user permissions.

Resulting Organisational Benefits

- Strong data protection and access control
- Supports private, secure AI models with controlled data access
- Full auditability of data and AI usage
- Supports ethical, compliant AI procurement

What the Data Graphs Service includes

1. Fully managed SaaS platform
2. Secure production environment
3. Standards-based APIs, Webhooks and Graph query
4. Documentation and onboarding
5. Optional professional services and training
6. Defined availability targets with worry-free service credits

The service enables organisations to create, govern, and reuse connected information safely — supporting operational efficiency, interoperability, and AI-ready services.

Contact us to discuss your requirements.

Email

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