

Knowledge Services Solution Offerings

5
SERVICE
OFFERINGS

Transforming fragmented clinical, regulatory, and scientific data into a governed knowledge ecosystem powered by semantic intelligence and Kwalify™-enabled validation.

CARE2DATA enables life sciences organizations to move beyond fragmented data systems by engineering **interlinked knowledge-driven platforms** that bring structure, context, and intelligence to clinical data workflows. By combining ontology frameworks, knowledge graphs, and explainable AI, we connect entities, relationships, and regulatory context—enabling **intelligent validation, verification, and discovery** across the clinical data lifecycle.

OFFERING 01

Knowledge Modelling

Engineering structured semantic representations of clinical entities, regulatory dependencies, workflows, and scientific relationships — the foundation for context-aware validation and reasoning. Delivered through ontology & taxonomy design, semantic model engineering, and CDISC standards alignment.

OFFERING 02

Knowledge Repository Creation & Setup

Operationalise knowledge models within scalable knowledge graph infrastructure, creating a unified semantic source of truth across clinical datasets and systems. Covers graph database setup, data ingestion pipelines, and API integration.

OFFERING 03

Knowledge Discovery & Reasoning

Enable contextual discovery, relationship analysis, anomaly detection, and knowledge-driven clinical data validation and verification through reasoning-enabled systems. Leverages SPARQL querying, explainable AI, and automated anomaly detection.

OFFERING 04

Governance & Lifecycle Management

Implement governance frameworks, traceability mechanisms, and regulatory compliance controls — ensuring long-term reliability, audit readiness, and alignment with evolving standards. Includes version control, access management, and regulatory mapping.

OFFERING 05

Training & Capability Transfer (BOT Model)

Equip sponsor and partner teams with the knowledge and capabilities to manage, operate, and extend these systems independently — following a **Build, Operate, and Transfer (BOT)** model. Includes hands-on workshops, documentation, and ongoing support during transition. Each service offering layer reinforces the next — transforming fragmented datasets into interlinked, reasoning-enabled clinical intelligence.

Key Capabilities per Offering

OFFERING	CORE CAPABILITIES	KEY OUTCOME
● Knowledge Modelling	Ontology design · Taxonomy frameworks · RDF/linked data · CDISC alignment	Context-aware validation foundation
● Knowledge Repository	Graph DB setup · Data ingestion pipelines · API & system integration · Semantic querying	Unified semantic source of truth
● Discovery & Reasoning	SPARQL querying · Explainable AI · Anomaly detection · Cross-study reasoning	Reasoning-driven clinical intelligence
● Governance & Lifecycle	Version control · Audit trails · Access management · Regulatory mapping	Audit-ready compliance posture
● Training & BOT	Workshops · Documentation · Capability transfer · Ongoing advisory support	Self-sufficient in-house capability

End-to-End Knowledge Transformation



Transforms Fragmented Data Into

- ✓ Structured semantic knowledge systems
- ✓ Governed, reasoning-enabled intelligence
- ✓ Submission-ready validation & verification frameworks
- ✓ Sustainable competitive advantage in R&D

Measurable Outcomes

- ✓ Reduced time to insight
- ✓ Improved research productivity
- ✓ Stronger regulatory compliance posture
- ✓ Data-driven decision systems across clinical programs

This integrated approach — powered by **Kwalify™** — establishes a new operating model for clinical data validation, verification, and knowledge-driven research systems, enabling life sciences organizations to move beyond fragmented datasets toward **connected, context-aware, and submission-ready knowledge systems**.

Ready to Lead with Clinical Intelligence?

Talk to our team about your clinical data challenges and how Knowledge Services can help.

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