

Clinical Data Interoperability and OMOP Transformation

Service definition



Answer

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Company overview

We're driven by technology and innovation, and by their ability to create meaningful change for organisations and the communities they serve. As a proudly independent and employee-owned consultancy, we bring together a diverse, highly skilled team who thrive on tackling complex challenges, working closely with our clients to deliver solutions that make a real difference.

We partner with organisations across multiple sectors, using data, AI and digital to help turn ambition into outcomes. Our work is recognised by leading industry bodies, reflecting our consistent focus on delivering clear, customer-centred results that stand up in the real world.

How we do it

With over 25 years of experience delivering digital transformation, Answer Digital supports organisations through complex change, with deep expertise in cloud-led delivery. We work in close partnership with our clients to innovate responsibly, embed best practice, and deliver outcomes that last.

Every engagement is different, so we build teams around the challenge, not a fixed model. We start by understanding the vision, the users, and the outcome that really matters. From there, we design solutions that fit your technology landscape, tools, roadmap and people.

Collaboration sits at the heart of how we work. We establish ways of working that are sustainable for teams, processes and practice, then iteratively design, build and test together. We continuously learn, refine and evolve, keeping a clear focus on delivering the right outcome, not just shipping technology.

Clinical Data Interoperability and OMOP Transformation

Service description

We design and deliver clinical data interoperability and transformation services using FHIR, HL7 and the OMOP Common Data Model. Supporting Federated Data Platforms, Trusted Research Environments and NHS analytics through secure cloud-native data engineering, governance and quality assurance across AWS, Azure and GCP. Delivered using Answer Digital's agile, product-led engineering approach.

Features

- Automated ETL pipelines converting legacy data to FHIR standards.
- OMOP CDM transformation using OHDSI toolset for data profiling.
- Interoperability via HL7, SNOMED CT, LOINC, and RxNorm mapping.
- Data lineage and provenance documentation using Mauro Data Mapper.
- Cloud-native containerised deployment on AWS, Azure, and GCP.
- API-first connectivity between clinical systems and research platforms.
- Automated data quality assurance and drift detection dashboard integration.
- Scalable vector database support for predictive analytics and modelling.
- Secure legacy system data extraction and document digitisation services.
- Transparent code enabling clinical safety and governance auditing.

Benefits

- Accelerate research with high-quality analysis-ready standardised clinical data.
- Enhance semantic interoperability creating a single source of truth.
- Support Federated Data Platform (FDP) and Secure Data Environments.
- Ensure regulatory compliance with NHS and GDS Digital Standards.
- Reduce manual effort via automated data ingestion and transformation.
- Enable rapid collaboration between researchers, clinicians, and data architects.
- Scalable architecture supporting national and regional metadata repositories.
- Secure identity access management and ISO 27001 data protection.
- Actionable insights for population health and predictive modelling analytics.
- Optimise budget control through efficient cloud infrastructure management.

Pricing

Answer Digital services are available for procurement through either Fixed Price or Time & Materials arrangements. Please refer to our Pricing Document and Rate Card for further details.

Contact details

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