



IBM Consulting

G-Cloud 15 IBM - Data for AI – Cloud Migration Planning

Service Definition Document

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Introduction

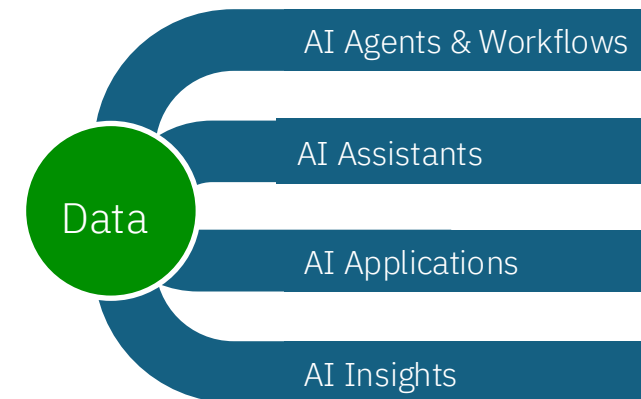
Summary

Accelerated data capabilities for scalable AI by enabling ingestion, governance, and exposition of structured and unstructured data, including embeddings & vectorisation. Ensure high-quality data products are accessible for AI agents, workflows, and applications, leveraging IBM's Modern Data Accelerators for maximum efficiency and impact.

- Organisations are rapidly adopting AI & agentic digital applications, exponentially increasing the variety of systems and technologies that rely on data, and the importance of the trustworthiness & quality of the underlying information itself.
- Most enterprises still rely on traditional data architectures and governance capabilities that manage legacy structured data types & expose information to use cases exclusive to reporting & traditional analytics. However, it's imperative that organisations build a scalable data capability that can ingest, govern & expose
- IBM's Data Transformation services enable clients to unlock the full potential of AI by modernizing data foundations, mobilizing data from existing systems, establishing AI-ready governance, and accelerating delivery using IBM's Modern Data Accelerators.
- This offering provides a clear and pragmatic path for organizations to make their data fit for purpose, reduce cost and complexity, and scale AI confidently and responsibly.

Data-for-AI

Data is fundamental to AI, from building AI models with the right data, tuning AI models with domain specific enterprise data, to using vectorized embeddings to build RAG applications. Without the right data the value is diminished, and risks increase.



Data For AI - Services & Solutions

Initiation – Setting up for success

- **DATA READINESS ASSESSMENT FOR AI** (3–6 weeks)
A rapid, structured assessment of the organization's data, governance, and platform readiness for AI. Produces a gap analysis and an actionable roadmap targeting quick wins and scalable foundations.
- **AGENT-READY INFORMATION ARCHITECTURE** (8–16 weeks)
Design an architecture enabling autonomous agents to safely discover, request, and use enterprise data. Covers access control, semantic layers, API policies, and real-time data pathways.
- **DATA VALUE REALIZATION FOR AI** (4 to 8 Weeks)
Define and measure business value from AI-ready data. Includes KPI definition, value estimation, benefit tracking, and continuous optimization.

Governance – Safety, trust and compliance

- **DATA GOVERNANCE FOR AI AND AGENTIC SYSTEMS** (8–14 weeks)
Define and implement governance tailored to AI and autonomous agents. Includes policies, lineage, trust scoring, risk controls, responsible AI guardrails, and governance automation.
- **DATA QUALITY AND TRUST FOR AI** (6 to 16 Weeks)
Assessment, remediation, and ongoing monitoring of data quality and trust. Includes automated rules, anomaly detection, scoring, and integration with AI.
- **AI AND DATA RISK, COMPLIANCE, AND ETHICS** (6 to 12 Weeks)
Establish frameworks and controls to meet emerging AI regulations and data compliance needs. Covers safety, privacy, consent, auditability, and policy design for enterprise AI operations.

Build – Mobilization of the data

- **DATA PRODUCT DESIGN FOR AI USE CASES** (6–12 weeks)
Design and deliver high-value data products aligned to priority AI and agentic use cases. Includes identification of key datasets, semantic modelling, feature asset creation, quality rules, and operational delivery patterns.
- **LIGHTWEIGHT DATA MOBILIZATION FOR AI** (6 to 16 Weeks)
Quick, low-impact services to expose and connect data trapped in legacy or siloed systems. Includes APIs, data virtualization, eventing, and patterns to make data consumable for AI without major re-platforming.
- **DATA PLATFORM MODERNIZATION FOR AI** (12 to 24 Weeks)
Modernize and re-architect data platforms for AI workloads, including lakehouse enablement, vector-ready storage layers, metadata automation, cloud alignment, and performance optimization.

Optimisation – Enable data for AI at scale

- **MLOPS AND DATAOPS ALIGNMENT** (8 to 16 Weeks)
Integrate DataOps and MLOps practices to ensure reliable data pipelines, model life-cycle management, observability, lineage, and drift detection across data and models.
- **AI-ENABLED DATA ENGINEERING** (12 to 24 Weeks)
Use IBM's accelerators and LLM-powered tools to automate schema mapping, integration logic, pipeline refactoring, and code generation, reducing delivery effort and data tech debt.

Why choose 'Data for AI' from IBM?

Features

- AI-ready data product design aligned to priority business use cases
- Lightweight data mobilization from existing systems without major re-platforming
- Modern governance frameworks designed for AI and autonomous agents
- Rapid readiness assessments to identify gaps and opportunities
- Vector-enabled, cloud-aligned platform modernization
- AI-assisted data engineering and migration using IBM Modern Data Accelerators
- Automated data quality rules, observability, and trust scoring
- Integrated MLOps and DataOps pipelines
- Compliance, privacy, and responsible AI controls
- Value measurement frameworks linking data initiatives to business outcomes

Benefits

- Accelerates AI deployment and time to value
- Reduces cost through platform efficiency and AI-assisted engineering
- Unlocks data trapped in legacy systems for immediate AI consumption
- Improves trust, quality, and regulatory compliance of data and AI outputs
- Supports safe adoption of agentic systems across business workflows
- Ensures data, models, and governance evolve together
- Provides a measurable, business-aligned case for data investment
- Creates a scalable foundation for enterprise-wide AI transformation

Key IBM Enabler: IBM GenAI Data Accelerators

A suite of AI-powered tools that streamline data architecture and processes, reduce implementation costs by 40%, and rapidly accelerate the transformation of our client's data environment. Our accelerators cover core components of data projects, including data strategy, delivery and maintenance.

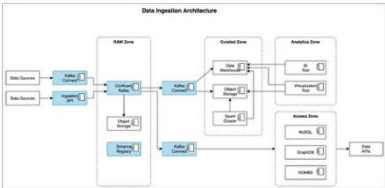
Our Assets and Accelerators

Data Strategy

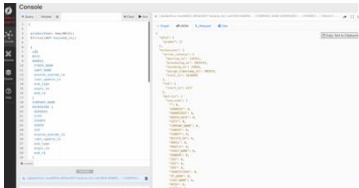


GenAI Data Platform Genius

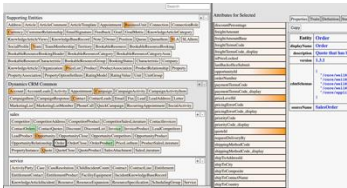
Data Delivery



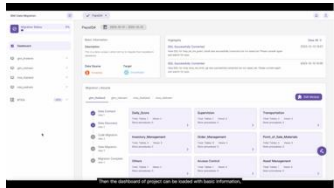
Intelligent Integration Engine



Lightweight MDM Engine

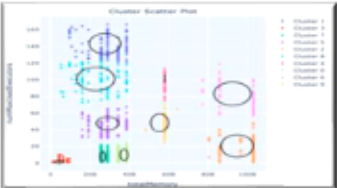


Intelligent Workflows

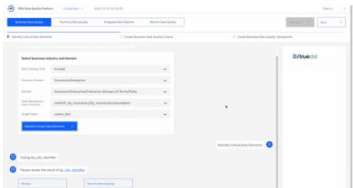


GenAI Data Migration Assistant

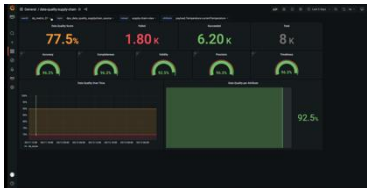
Data Maintenance & Evolution



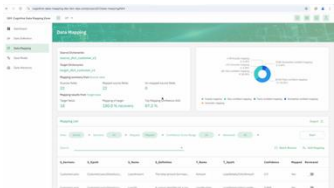
Truedat Data Catalog



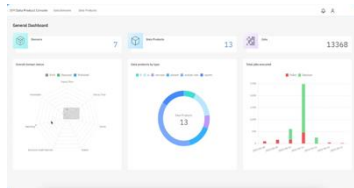
Data Quality Platform



Real-Time Data Quality Component



Cognitive Mapper



GenAI Data Product Console

Key IBM Enabler: Data Product Management Playbook

Provides a structured, clear and standardised process for identifying Data Products. From inception and the activities needed to generate use cases to ideating through the design and creating a standardised Data Product canvas which can be used by the feature teams to build the data product.

What does the Playbook cover:

- Definitions of Data Product - What is a Data Product
- Data Products Operating Model & Delivery Approach - defining our data product operating model, delivery approach, and core principles
- High Level process on Identifying Data Products - Structured approach to designing data products: from use case ideation to canvas-led delivery
- Value Realisation - Defining how we apply portfolio management to prioritise high-impact data products and track value delivered
- Data Product Governance - Defining technical data product governance: standards, ownership, and controls

