edgematics®

Data Engineering & Governance Datasheet

Scalable. Reliable. Analytics-ready

The Challenge | Today's Data Reality

- Fragmented data across OSS/BSS, ERP, CRM, cloud, and legacy platforms
- Inconsistent KPIs and conflicting reports across business units
- Poor data quality impacting analytics, AI/ML, and decision-making
- Lack of clear data ownership, stewardship, and accountability
- Regulatory pressure (privacy, compliance, auditability)
- Slow time-to-insight due to manual processes and siloed platforms

The Opportunity | Why Act Now

Enable faster, data-driven decisions

- Monetize data through analytics, AI, and digital services
- Improve regulatory compliance and reduce operational risk
- Accelerate cloud, AI, and digital transformation initiatives
- Reduce cost and complexity through modern architectures

A strong Data Engineering & Governance foundation is the enabler for AI, automation, and business agility.

Framework Overview — Six Integrated Pillars

1. Data Engineering & Integration
2. Data Quality & Observability
3. Master Data Management (MDM)
4. Data Warehousing & Lakehouse
5. Data Governance & Metadata
6. Advanced Analytics & AI Readiness

edgematics® | Technical Architecture & Implementation

Core Data Platform Architecture

Sources
Social Media | CDR | IoT | ERP | Clickstream | Sales | Geo-Location | Digital Partners

Ingest & Store — Data Lake
Raw → Curated → Semantic Zones

Serve Hub
Customer | Product | Usage | Transactions | Distribution | Location

Modelled Data Warehouse

Data Science Models
Segmentation | Hyper Personalisation | Next Best Action | Churn | Recommendation Engines

Semantic Model
Sales | Pricing | Acquisition | Campaigns | Scorecards

Why Edgematics

End-to-End Ownership
Strategy, architecture, implementation, and run support — one accountable partner

Strong Domain Expertise
Telecom, Banking, Government, Retail, Healthcare, Logistics

Technology-Agnostic Approach
We recommend what fits your business, not what we sell

Governance + Engineering Together
Practical governance embedded into real data pipelines

AI-Ready by Design
Data platforms built with AI, ML, and automation in mind

Implementation Phases

1. **Discover & Assess** — 4–6 weeks
2. **Design & Govern**
3. **Build & Integrate** — 8–12 weeks
4. **Validate & Enable**
5. **Operate & Optimize** — 12+ weeks

Business Impact & Outcomes

- 30–40% improvement in data quality scores
- Single version of truth across enterprise
- Accelerated AI & digital initiatives
- Reduced reconciliation cost & effort

Edgematics Group | All-in-Data Company | Strategy · Architecture · Implementation · Run Support