

Vivanti UK AI Services

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Overview

Vivanti observes three broad approaches to delivering data platform and engineering solutions in the market along with three broad approaches to delivering professional services. This creates a mould for nine high-level go-to-markets upon which to tag prospective deliverables, which constitute the core of a broader data services offering.

Our data platform and engineering services help public sector organisations build secure, scalable, and governed data infrastructure that transforms raw data into actionable insights, enabling evidence-based decision making and operational excellence.

Data Core Services - Strategic Data Advisory

Vivanti helps public sector organisations develop and execute comprehensive data strategies that align with organisational objectives and digital transformation goals. Our professional services include **Data Maturity Assessments** to evaluate your current data capabilities and identify improvement opportunities, and **Strategic Data Roadmapping** to design multi-year transformation programmes that deliver measurable value.

We provide **Data Governance Framework Design** to establish policies, standards, and accountabilities for data management across your organisation. Our **Data Architecture Consulting** ensures your technical solutions align with business requirements and industry best practices. Vivanti is a technology-agnostic partner that can provide advisory services spanning cloud platforms including AWS, Azure, Google Cloud, Snowflake, and Databricks.

Data Core Services - Data Platform Engineering

Vivanti provides expert advisory and delivery services through senior Data Engineering consultants and Data Architects to help customers build and deploy modern data platforms that support analytics, reporting, and operational intelligence. Leveraging our **Accelerator Frameworks**, Vivanti works with you to design and implement bespoke data solutions from initial architecture design, to Proof of Concept (PoC), to Minimum Viable Product (MVP) to full production deployment.

We focus on addressing your most critical data challenges through the implementation of **Modern Data Warehouses and Lakehouses** (Snowflake, Databricks, BigQuery, Redshift, Synapse), **Cloud Data Lakes** with efficient storage and query capabilities, **Data Mesh Architectures** for decentralised data ownership, and **Hybrid and Multi-Cloud Data Platforms** that provide flexibility and avoid vendor lock-in.

Our services extend to **Legacy Data Platform Modernisation**, helping you migrate from on-premises systems to cloud-native architectures whilst ensuring data integrity and business continuity.

Data Core Services - Data Integration & Pipelines

Vivanti offers comprehensive data integration and pipeline engineering services to help your organisation reliably move, transform, and orchestrate data across systems. We deliver **ETL/ELT Pipeline Development** using industry-leading tools such as Apache Airflow, dbt, Fivetran, Matillion, and custom Python frameworks.

Our engineers build **Real-Time Streaming Data Pipelines** using Apache Flink, Kafka, AWS Kinesis, Azure Event Hubs, and Google Pub/Sub to enable timely decision making. We implement **Data Quality Frameworks** with automated validation, monitoring, and alerting to ensure data reliability and trustworthiness.

We provide **API Integration Services** to connect disparate systems and enable seamless data flow, alongside **Change Data Capture (CDC)** implementations for efficient incremental data loading. Our **DataOps Engineering** approach incorporates infrastructure as code, automated testing, and CI/CD practices to ensure reliable and repeatable data pipeline deployments.

Data Experimental Services - Advanced Data Architecture

Vivanti helps public sector organisations explore and prototype cutting-edge data architecture patterns. Our Experimental Services for Advanced Data Architecture include **Data Mesh Proof of Concepts** to evaluate decentralised, domain-oriented data ownership models, and **Data Lake Architecture Prototyping** combining the best of data lakes and data warehouses.

We provide expertise in **Event-Driven Architecture Design** for real-time data processing and microservices integration, alongside **Data Virtualisation** strategies that provide unified access to distributed data sources without physical movement. Our consultants can prototype **Multi-Cloud Data Fabric** architectures that enable seamless data access across cloud providers.

Data Experimental Services - Real-Time & Streaming Data

Vivanti provides expert advisory and delivery services through senior Data Engineering consultants to help customers experiment with advanced real-time data processing capabilities. We design and prototype **Complex Event Processing (CEP)** systems for pattern detection and real-time analytics, alongside **Stream Processing Frameworks** using Apache Flink, Spark Streaming, and Kafka Streams.

Our services include implementing **Real-Time Data Quality Monitoring** to ensure streaming data meets quality standards before reaching downstream systems. We can prototype **Lambda and Kappa Architectures** that balance batch and real-time processing requirements, alongside **IoT Data Ingestion Pipelines** for sensor data and edge computing scenarios.

Data Experimental Services - Data Innovation Labs

Vivanti offers strategic advisory and deep technical delivery services to help your organisation explore emerging data technologies and methodologies. Our expert consultants provide advisory and technical expertise to experiment with **Graph Database Architectures** for complex relationship analysis, **Time-Series Data Platforms** for IoT and monitoring use cases, and **Geospatial Data Engineering** for location-based analytics.

Data Managed Services (MS) - Data Platform Operations

To ensure the continued success of your data initiatives, Vivanti offers expert Managed Services for Data Platform Operations. Our team of consultant engineers provides **24/7 Platform Monitoring and Support** with proactive issue detection and resolution, alongside **Performance Optimisation Services** to ensure your data platform scales efficiently and cost-effectively.

We deliver **Platform Health Reporting** with detailed metrics on availability, performance, and utilisation, plus **Capacity Planning and Scaling** to anticipate growth and prevent bottlenecks.

Our professional services ensure your data platforms remain secure, performant, and aligned with business needs through continuous improvement and expert oversight.

Data Managed Services (MS) - Data Pipeline Management

Vivanti's Managed Services provide ongoing Site Reliability Engineering (SRE) expertise for your data pipelines and integration workflows. As your professional services partner, we provide expert oversight to ensure the resilience and performance of data pipelines built on platforms like Apache Airflow, dbt Cloud, Fivetran, AWS Glue, Azure Data Factory, or Google Cloud Dataflow.

Our services include **Pipeline Monitoring and Incident Response** with rapid troubleshooting and resolution, **Data Quality Monitoring** to catch and remediate data issues before they impact downstream systems, and **Pipeline Performance Optimisation** to improve processing speed and reduce costs. We provide **Change Management and Deployment** support to safely roll out pipeline updates with minimal disruption.

Data Managed Services (MS) - Data Governance & Quality

Vivanti's Managed Services provide ongoing Data Governance and Data Quality management expertise for your organisation. As your professional services partner, we deliver **Data Catalogue Management** to maintain up-to-date metadata and documentation, alongside **Data Lineage Tracking** to understand data flow and transformations across your estate.

We provide **Continuous Data Quality Monitoring** with automated profiling, validation, and anomaly detection across your data pipelines. Our services include **Metadata Management** to ensure consistency and discoverability, **Master Data Management (MDM)** oversight to maintain golden records, and **Data Access Governance** to ensure appropriate data access controls and compliance with regulatory requirements.

This service gives you access to our deep technical knowledge to maintain trustworthy data assets that drive confident decision making across your organisation.