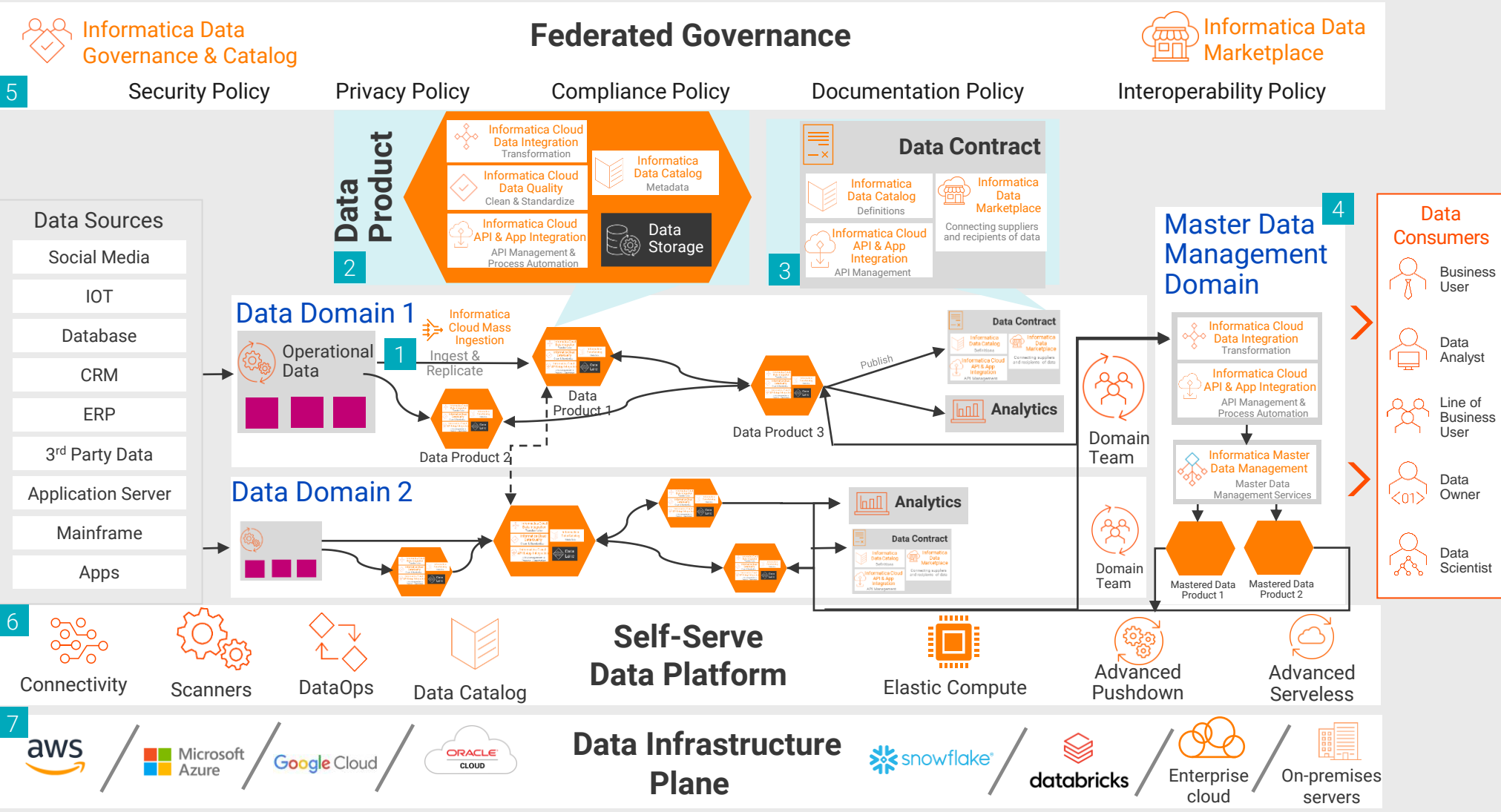


Data Mesh

Data mesh is a modern data architecture framework that emphasizes decentralized data ownership and management. This allows each domain to be responsible for their own data assets and makes it easier to scale and maintain complex data ecosystems. Here is the representation of a data mesh framework using Informatica Intelligent Data Management Cloud.



- 1 Data Ingestion and Replication**—Ingest and replicate operational data at any speed using scalable streaming, file, database and application sources with comprehensive and high-performance connectivity into data products within data domains.
- 2 Data Product: Transformation, Quality, API and Process Management**—Data from ingested operational systems or other data products gets transformed and cleansed using data integration and data quality tools. Data products may use APIs to gather data from external data sets in order to serve the domain team's or other teams' analytical data needs.
- 3 Data Contract**—Provides insights into who owns what data products using terms of service and service level agreements (SLAs). It helps to solve miscommunication over data usage. Data contracts are usually defined in a data catalog, along with further metadata. It may use APIs for automatically provisioning data access policies via an access control list (ACL).
- 4 Domain-oriented Master Data Management**—Helps in achieving data consistency among data domains using centrally managed reference and master data. Mastered data from these MDM data products is expected to find its way back to the domains it came from, or it can be referenced by other data domains.
- 5 Federated Governance**—All domain teams agree with others on global policies, such as interoperability, security and documentation policies.
- 6 Self-Serve Data Platform**—The Informatica domain-agnostic, self-serve data platform enables domain teams to easily build their own data products and do their own analysis effectively.
- 7 Data Infrastructure Plane**—This self-serve data platform is built on top of data infrastructure plane. Informatica supports a multi-cloud/hybrid data infrastructure for data mesh.