FEDERATED ANALYTICS
REFERENCE ARCHITECTURE

Governance 8

1 Federated Data Sources

Infectious Disease Case & Vaccination Records

Child Support, Welfare, & Care Systems

Public Health Data & IE

DATA WAREHOUSE

Workforce

MIMM

Pre Process

Tagging & Catalogue 2

snowflake

Engineering

Metadata Management

Business Rules Management

Data Lineage

Audit Balancing

Security Management

Data Engineering

Curated Data Sets

3

Warehousing 4

RBAC

Subject Oriented Marts

De-Identified Marts

Data Sharing to Federated Entities 5

Publishing 6

Apps

Dashboards

HHS To Medicaid Federation Data Sharing via Snowflake

9

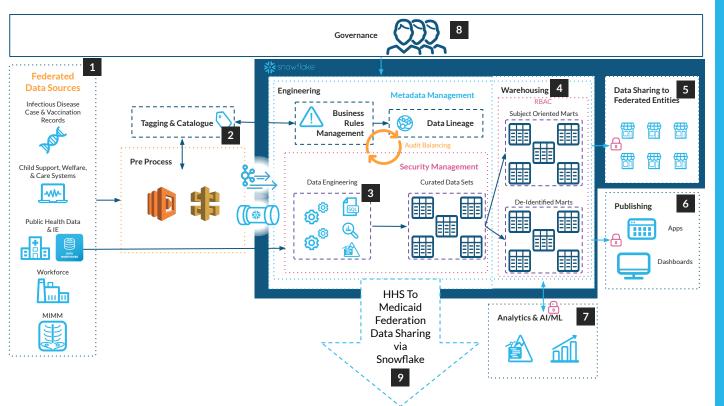**Analytics & AI/ML** 7

OBJECTIVE

Snowflake drives federated data strategy towards operational efficiency with critical platform tools and ecosystem partners. Curating multiple sources of data into a cohesive view is faster, lower cost, and less resource intensive, allowing the mission and governance to be the primary focus. Organizations are able to drive successful data integrations, with holistic data governance, all supported by a single data technology layer.

DESCRIPTION

1 Ingest a Variety of Data Sources in their Local/Native Schema

2 Pre-process for Quality and Enrich Data

3 Data Engineering Process to convert to Federated Schema

4 Organize Curated Data Products set in External Schemas

5 Federated Member Direct Access with Security

6 Published Products with Security and Privacy

7 Analytics Teams Access with Role Based Security

8 Governance Ensures Reliability, Accessibility, and Security for all Constituents

9 Sharing clean data products between federations