

# AVEHEALTH DATA CLOUD - HEALTH SYSTEM USE CASE

## WITHIN THE HEALTH SYSTEM'S ENVIRONMENT

**Health System Information Systems**

- EMR
- Pharmacy
- General Lab
- PACS, RIS
- Financial/Accounting
- CRM
- Bed Management

### Staging Area

- Data Integration Framework
- Master Patient Indexing
- De-Identification

## INGEST

Event Streaming Platform

## PERSIST & ENRICH

**Analytics Services**

- Azure Machine Learning
- Azure Synapse Analytics
- PowerBI
- Azure DataBricks

**Data Stores**

- Bronze:** Raw De-identified Data
- Silver:** Cleansed, Normalized, Terminology Mapping
- Gold:** Unified Healthcare Data Model

HL7 FHIR FHIR Server

**Data Processing Services**

- Azure Data Factory
- Azure DataBricks
- Azure Synapse Stored Procedure

**Corporate Consumption**

Azure Synapse SQL Pool

**Analytics Sandbox**

Data Discovery & Analytics

Dynamic Attribute and Purpose Based Controls

## CONSUME

- Business Intelligence Reporting
- 3rd Party Healthcare Applications
- Artificial Intelligence/Machine Learning
- Payor Collaborations
- Life Sciences and MedTech Collaborations
- Research with Academic Institutions

**AVEHEALTH DATA CLOUD COMPONENTS**

- Within the health system's managed environment
- Within the AveHealth Data Cloud environment deployed in a region based on data residency requirements

**DATA GOVERNANCE TOOL, DATA QUALTY MONITORING**

- Data Quality Reports
- Data Catalog
- Dynamic Data Masking
- Privacy Enhancing Technologies

**CLOUD OPS SERVICES**

- Monitoring
- Alerts
- Activity Logs
- DevOps

**DATA SECURITY SERVICES**

- Key Vaults
- Active Directory
- VPN
- Firewall