

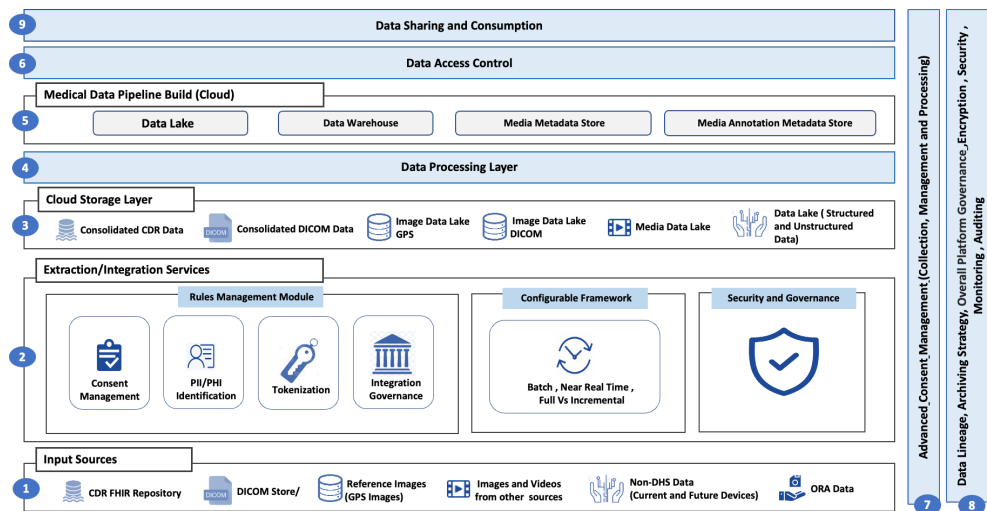
Medical Data Lake for a Global Medical Equipment Manufacturer



Client Requirements

- Client has embarked on a journey to build an Advanced Analytics platform. CitiusTech was engaged as a recommendation partner to assess the AS-is ecosystem and business requirements of the client's legacy and current infrastructure and recommend a best practice approach to build this Advanced Analytics platform.
- The vision for the platform is to provide best in class secure and scalable medical data lake to enable role based secure data consumption by multiple users and services.**

Solution Schematic



CitiusTech Solution

- Cloud based design and architecture on AWS.
- Consumption and Tool based Security of clinical data.
- Medical Data Lake utilizing AWS flagship data lake service aka AWS Lake Formation.
- Integration with various other third-party tools for authorization, authentication and cataloging viz OKTA, Savyint, TIBCO EBX5.
- Phased implementation aimed to align with Client roadmap and best recommended practices.

Value Delivered

- Multiple applications and users** are now utilizing the platform for advanced analytics, reporting and data science.
- Secure and Scalable Medical Data Lake** serving secure PII/PHI data for analytics and use cases.
- Data De-Identification Tool based security of the sensitive PII/PHI data.**
- Setup matured DevOps processes** enabling end-to-end pipeline execution with a single click deployment.
- Modular Framework aimed towards easier scalability and expansion for data sources and use cases.
- 2x gains in Data Quality and Data anonymization using Glue and Protegrity.
- 50% decrease in data processing time.