

# Medical Data Lake for a Global Medical Equipment Manufacturer

## Business Challenge

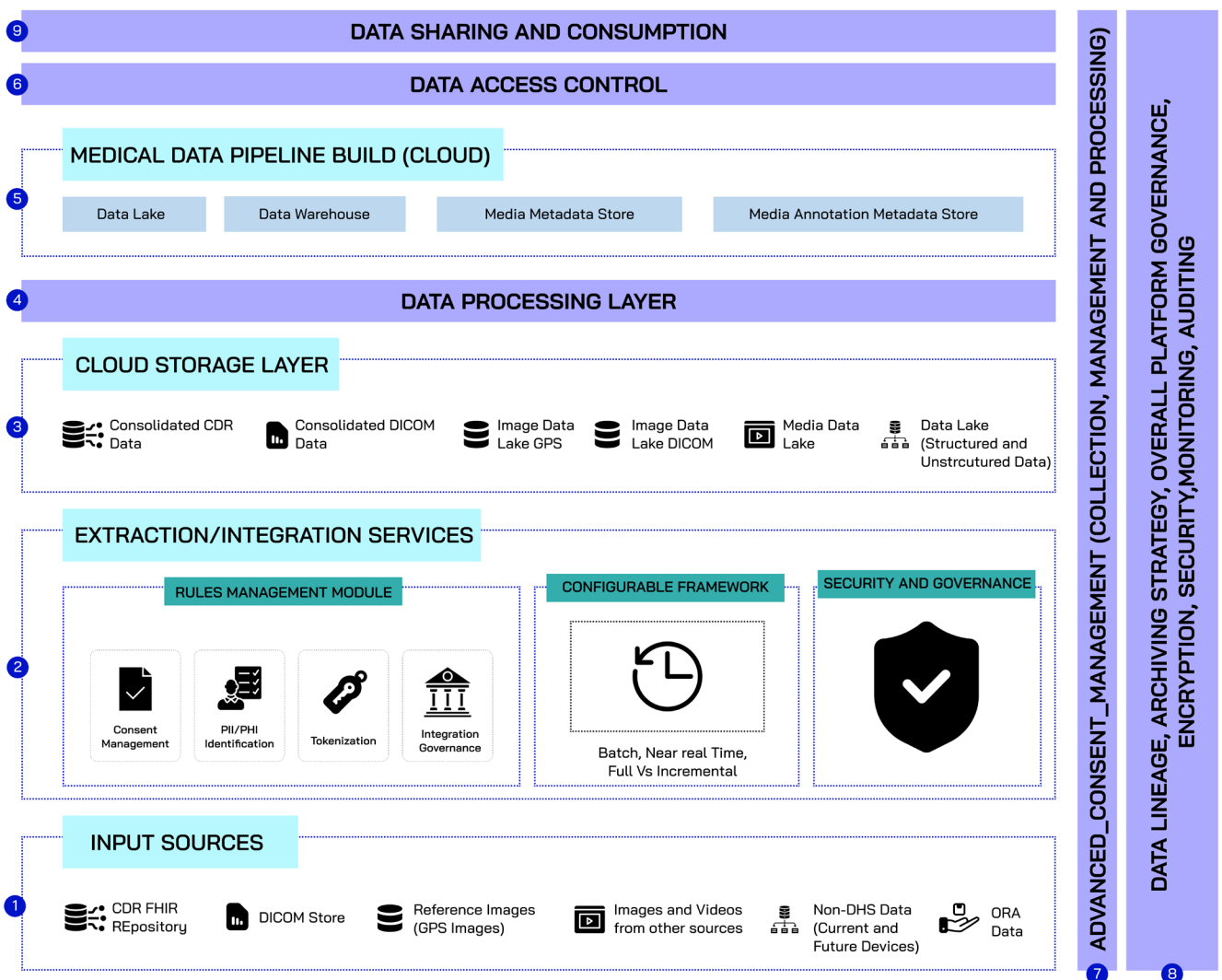
- Client has embarked on a journey to build an advanced analytics platform. CitiusTech was engaged as a recommendation partner to assess the AS-is ecosystem and business requirements of the client's legacy and current infrastructure and recommend a best practice approach to build this Advanced Analytics 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



**CITIUSTECH SOLUTIONS**

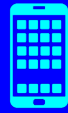
- Cloud based design and architecture on AWS. Consumption and Tool based Security of clinical data.
- Medical Data Lake utilizing AWS flagship data lake service aka AWS Lake Formation.
- Integration with various other third-party tools for authorization , authentication and cataloging viz OKTA, Savyint,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

**SOLUTION SCHEMATIC**



## VALUE DELIVERED

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**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.





Shaping Healthcare Possibilities

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