

# Medical Data Lake for a Global Medical Equipment Manufacturer



for Healthcare & Life Sciences  
for North America

## 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

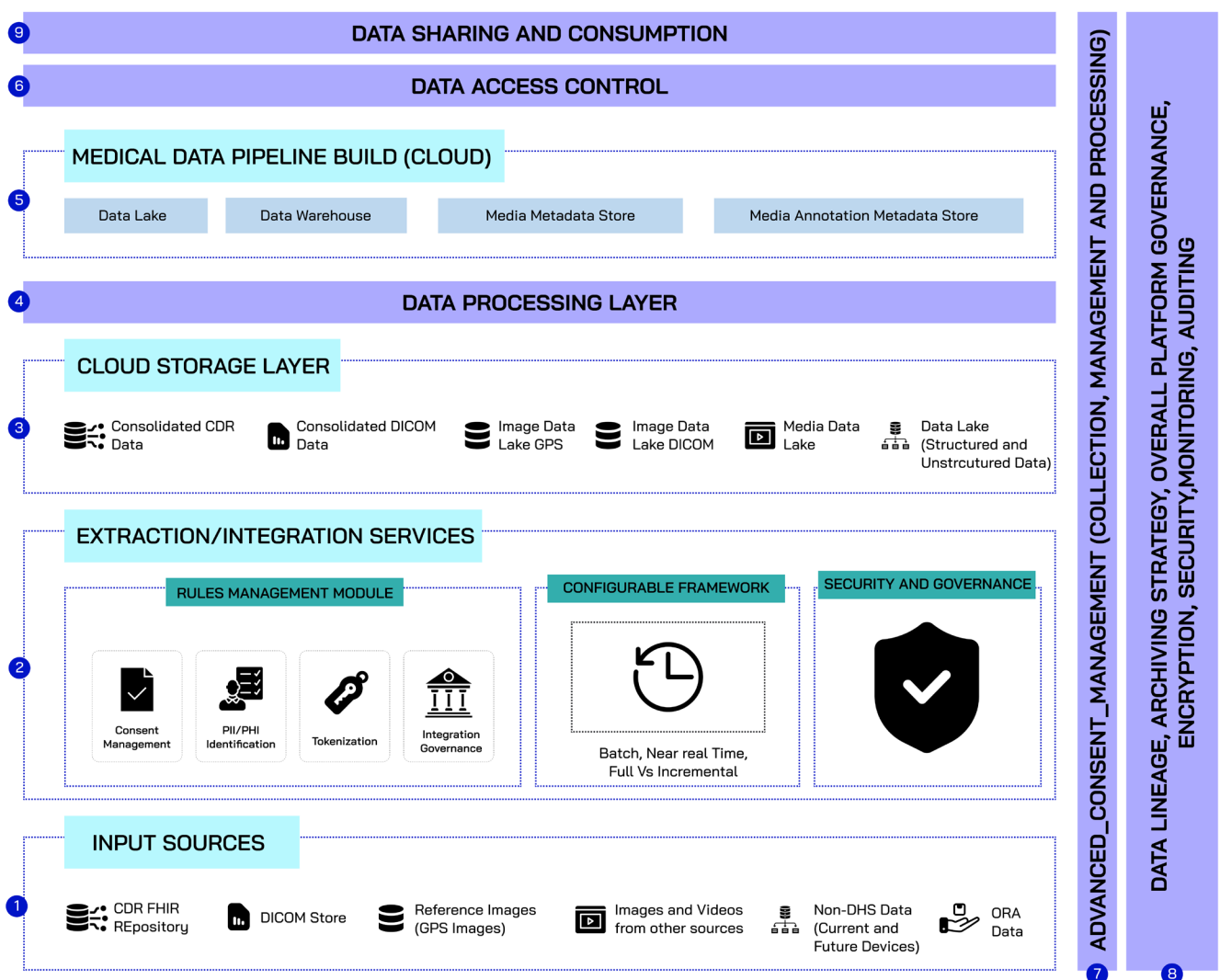


CASE STUDY

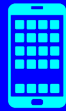
## CITIUSTECH SOLUTIONS

- 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



**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

CitiusTech is a global IT services, consulting, and business solutions enterprise 100% focused on the healthcare and life sciences industry. We enable 140+ enterprises to build a human-first ecosystem that is efficient, effective, and equitable with deep domain expertise and next-gen technology.

With over 8,500 healthcare technology professionals worldwide, CitiusTech powers healthcare digital innovation, business transformation and industry-wide convergence through next-generation technologies, solutions, and products.

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