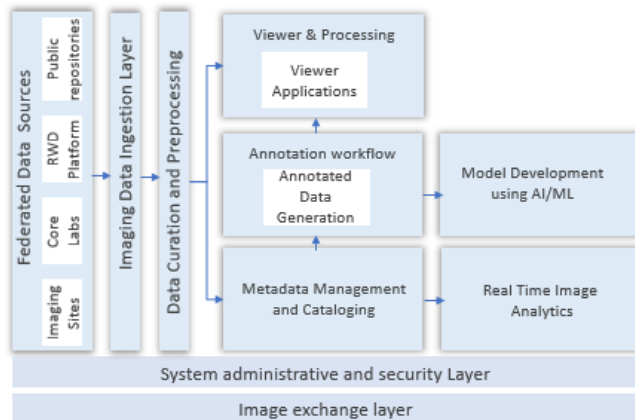


# Case Study: Secondary Analysis for Real World Imaging Data

## Client Requirements

Client is a leading Pharmaceutical company powered by technology leadership in R&D, world-class drug commercialization, global access and data science.

Client wanted CitiusTech to conceptualize and implement an image management solution to support ingestion, storage, data search and image annotation into their RWE data management platform.



Solution Schematic

## CitiusTech Services:

- Helped set up an ingestion pipeline for DICOM and non-DICOM native data formats
- Standardized metadata using sponsor defined taxonomy and structured codes
- Performed extraction of metadata from DICOM and non-DICOM images and mapped it to FHIR resources to create a systematic approach to metadata cataloging and management
- Automated the quality control process and de-identified the images and metadata
- Designed UX/UI to facilitate data browsing and viewing through robust search on the platform
- Orchestrated Radiologist workflow for image access through 3rd party viewer
- Exchanged annotated data internally and externally to build cohort for machine learning

## Value Delivered:

- Reduced time and effort in acquiring medical imaging data from multiple external real world data sources
- Developed an integrated search solution to provide access to relevant imaging information across the enterprise platform
- Developed a curated imaging dataset which was leveraged for training machine learning algorithms