



Shaping Healthcare Possibilities

## Success Story

# Driving patient safety and outcomes through advanced healthcare analytics

[www.citiustech.com](http://www.citiustech.com)

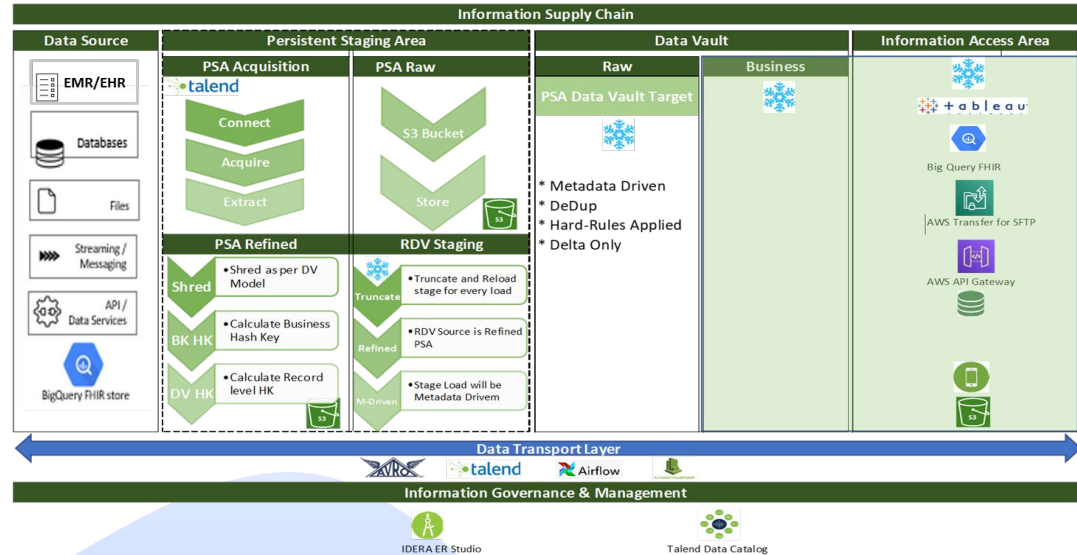
© 2024 CitiusTech | Private & Confidential



## The Challenge

- Client is a healthcare technology organization in US, with their solutions used by over 150 healthcare organizations and serving millions of patients annually.
- CT offered a data-driven technology to predict solutions that identifies Risk Propensity of a particular therapy and enable HC organizations to optimize patient safety & outcomes
- Client has envisioned Cloud based Centralized Data & Analytics-as-a-service to enable sharing and collaboration of analytical models

## Solution Highlights



## The Solution

- CitiusTech Analyzed business requirements, designed and implemented Modern Data Architecture solution using Snowflake Data Vault
- Built Persistent Staging Area using Talend ETL process, python and AWS S3 bucket, implemented Data Vault using Snowflake on AWS cloud platform native services like Airflow, AWS API Management, AWS Lake Formation
- Pattern based ETL design framework to support fixed width, delimited file formats, pull from web portals, ingestion from relational database systems
- Designed a highly efficient incremental file load process to load data in Data Vault
- Pipeline orchestration using Managed Airflow Service of AWS (MWAA)
- Highly intuitive reporting platform using Tableau with white labeling to show critical business insights

## The Outcome

- Improved Development & Time to market
- Audit and Logging framework to track ingestion of various data sets and capture data load statistics
- ~20 minutes of data load using Snowflake S-size warehouse: 40 entities, 1.5M data for provider, 5.5.M data for practitioner, 200K members with >2M diagnosis information



Shaping Healthcare Possibilities

# Thank You

**CitiusTech - 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

[www.citius.tech](http://www.citius.tech)

© 2024 CitiusTech | Private & Confidential

