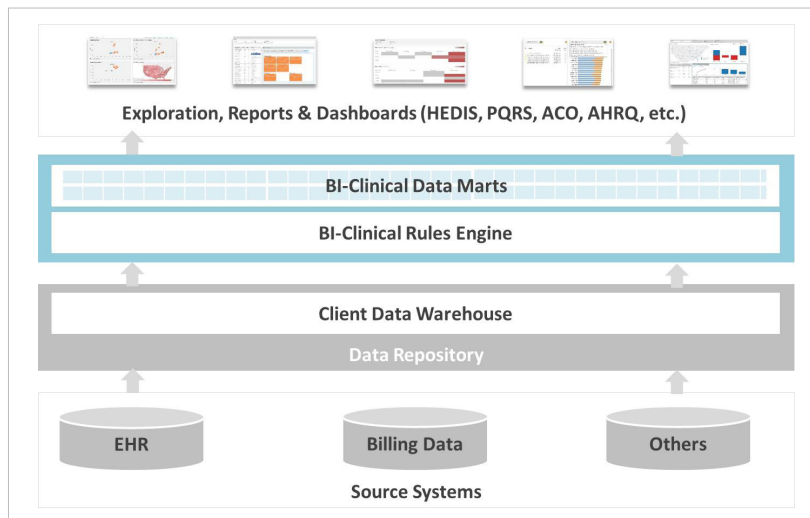# Case Study: Enterprise Clinical Quality Measures Engine

Client Requirements

Client is a leader in providing technology-driven solutions to large health systems, IDNs, ACOs, etc. Client wanted to create a centralized and an integrated quality reporting platform across its product suite, equipped with pre-built standard measure definitions (e.g. HEDIS, PQRS, AHRQ, ACO, etc.) as well as with the ability to create custom measure definitions. Client leveraged CitiusTech's BI-Clinical platform to develop the solution. Client also needed to support the integration activities related to onboarding of new participants on its care management platform.

Solution Design

- Integrated BI-Clinical with client's enterprise data platform via notification engine and ETL
- Computed compliance based on pre-built HEDIS 2016, PQRS 2016 and ACO 2016 measure sets
- Customized most of the measure definitions as per end customer data constraints and custom use cases; provided complete testing and validation support
- Designed and developed automated regression testing utility for validating measure definition updates and data changes

Exploration, Reports & Dashboards (HEDIS, PQRS, ACO, AHRQ, etc.)

BI-Clinical Data Marts

BI-Clinical Rules Engine

Client Data Warehouse

Data Repository

EHR   Billing Data   Others

Source Systems

CitiusTech Solution

Requirement Analysis

CitiusTech BI/ analytics team proposed an architecture that utilized the customized data adapters and out-of-the-box BI-Clinical hub and spoke architeture to create the integration environment, enabling the client team to onboard various members. Multiple BI-Clinical measures from different initiatives were customized as per client's requirements.

Value Delivered

By partnering with CitiusTech, the client was able to:

- Leverage CitiusTech's BI/ analytics capabilties for regulatory compliance for initiatives like PQRS and ACO and calculate gaps in care, alerts etc. for care management
- Implement a solution that covers 200+ quality measures for over 17 million lives

About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to medical technology companies, providers, payers and life sciences organizations, with over 2,700 professionals worldwide. CitiusTech's services and solutions include healthcare software development, healthcare interoperability, regulatory compliance, BI/analytics, consumer engagement, care coordination and population health management. CitiusTech helps customers accelerate innovation in healthcare through a number of solutions and accelerators for clinical quality reporting, healthcare big data, cloud computing, mobile health and predictive analytics. With cutting-edge technology expertise, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare clients worldwide.

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