



# Enterprise Data Framework for Healthcare Systems

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As healthcare attempts to bridge the gap between traditional and digital IT, organizations need a strategic data management approach to obtain useful business insights. CitiusTech's Enterprise Data Framework manages Big Data cycles, improves performance of critical IT systems, and applies data governance to generate highest possible returns on healthcare data assets.

- Data Governance
- In-memory & Predictive Analytics
- Cloud Ready

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

## About CitiusTech

With over 4,000 professionals worldwide, CitiusTech enables healthcare organizations to drive clinical value chain excellence, across integration & interoperability, data management (EDW, Big Data), performance management (BI / analytics), data science (predictive analytics, Machine Learning, AI) and digital engagement (mobile, IoT).

CitiusTech helps customers accelerate innovation in healthcare through specialized solutions, healthcare technology platforms, proficiencies and accelerators. 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 organizations worldwide.

### Worldwide Offices

- **US:** Princeton, Dallas, Rochester, Boston, New York, Philadelphia
- **India:** Mumbai, Airoli, Bangalore, Chennai
- **Rest of the world:** Dubai, Singapore, London

**\$205 Mn+**  
in revenue



**4,000+**  
healthcare IT professionals

**40 Mn+**  
lives touched

**69**  
NPS - highest in the industry!

**110+**  
healthcare customers

## Introduction

A robust enterprise architecture is crucial for achieving data agility, scalability and cost improvements. Traditional enterprise framework cannot effectively deal with the demands of digital business, and healthcare organizations often face data challenges such as:

- Need for real-time data sharing to improve quality of care and manage operational efficiencies to control costs
- Duplicate systems of records and multiple vendor data management due to merger and acquisitions
- Need for real-time analytics on clinical data due to increased patient participation
- Failure of existing data models in realizing integration of modern data sources with traditional transactional systems
- Evolving clinical quality requirements and payment models
- Lack of autonomous operation and self optimization
- Lack of leadership buy-in for enterprise wide data governance



## Modern Enterprise Data Warehouse: Key Business Goals

**1**

Data need assessment, integration frameworks and tools, and understanding of multiple client data sources

**2**

Data quality management, master data management & data lineage based on data standards & policies defined by data governance

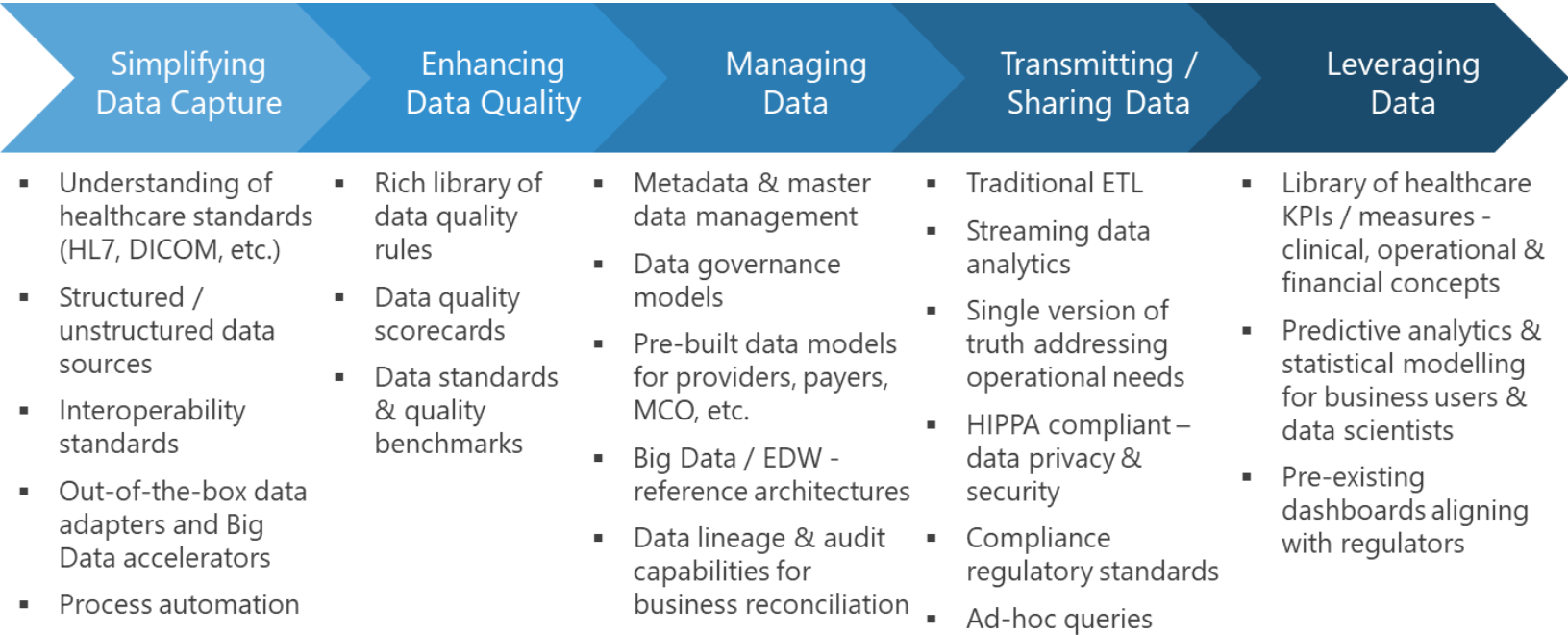
**3**

Shift from capital expenditures model to operating expenses mode with Cloud technology

**4**


Comprehensive coverage of clinical, operational, financial, analytics, human resources, and marketing needs

# CitiusTech Data Management Approach



**CitiusTech offers modular, scalable and self-managed framework for managing healthcare data**





**600+**  
pre-built KPIs  
with dashboards

**15+**  
EDW projects

**100+**  
BI / Analytics  
implementations

**~35%**  
lower cost of  
implementation

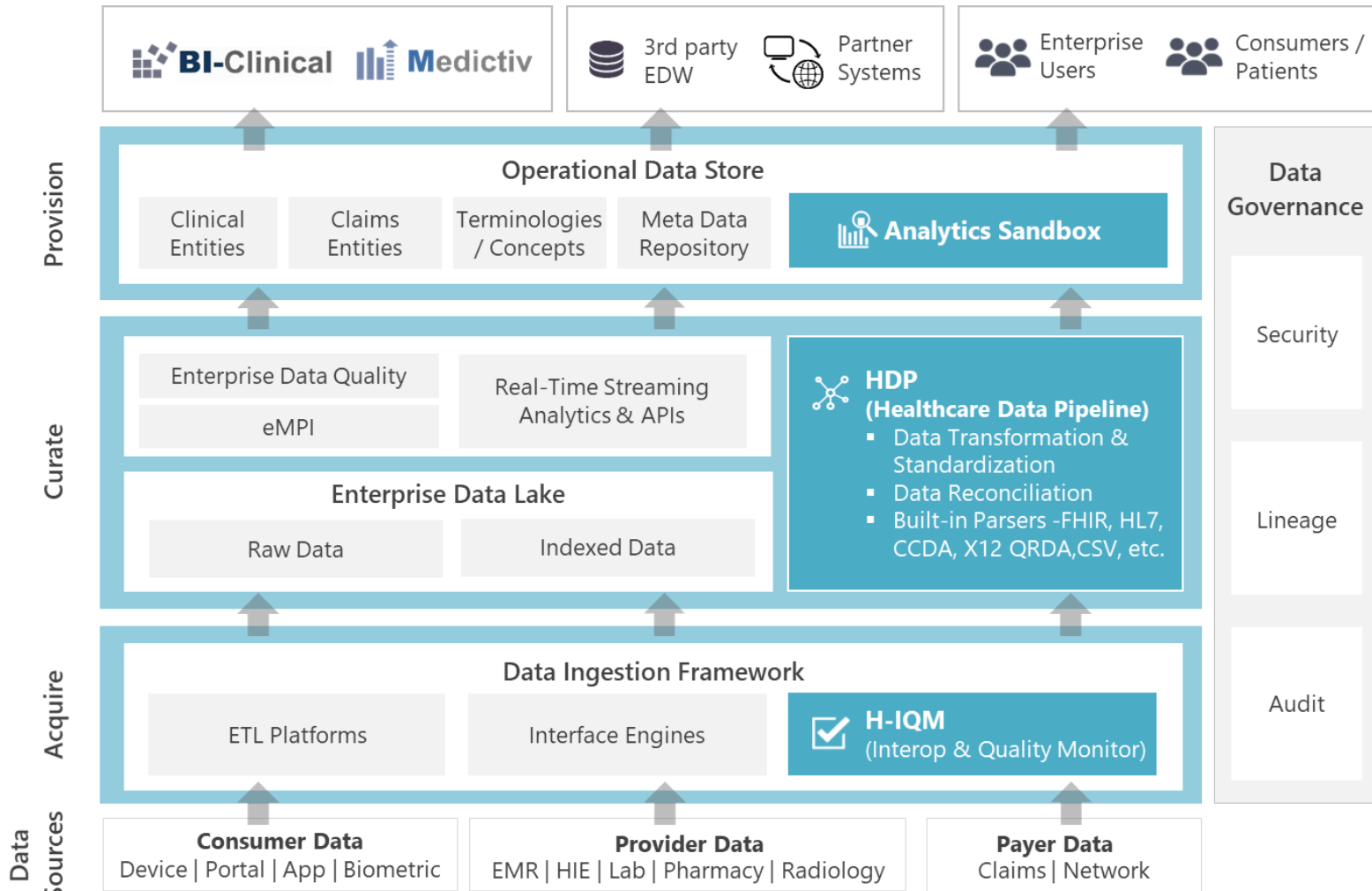
## The CitiusTech Advantage

CitiusTech's EDF helps in data modernization by unlocking the full potential of data and driving actionable insights by evaluating BI maturity level, charting the overall EIM strategy and designing solutions for enterprise level analytics (descriptive and predictive). CitiusTech helps healthcare organizations accelerate their enterprise data strategy through:

- An extensive set of **pre-built frameworks and accelerators** backed by deep understanding of leading tools and technologies
- **Rich experience** across 20+ projects around data governance for leading healthcare organizations
- Strong experience in designing and developing **master data management solutions** using Informatica MDM, IBM Infosphere MDM, and Microsoft Data Services platforms
- Expertise in **Cloud** to design scalable, Cloud-based solutions on industry leading Cloud platforms
- CitiusTech **healthcare data models and enterprise architectures** like FHIM, OMOP, RIM, QDM, etc. are leveraged for EDW to provide a unified view of the enterprise



# The CitiusTech Enterprise Data Framework (EDF)



# CitiusTech Data Management Proficiency

The CitiusTech Data Management Proficiency designs and supports architectures, policies, practices and roadmaps, to address the information needs of healthcare enterprises.

## CitiusTech Data Management Highlights

- Strong consulting capabilities to address lifecycle needs – data capture, quality, management, transmission and streaming analytics
- Industry standard data adapters (HL7, FHIR®, CCD, QRDA, etc.), utilities, best practice, and KPIs
- A comprehensive suite of managed services, including certified teams, technology expertise and best-in-class frameworks / methodologies

**250+**  
EDW Professionals

**700+**  
QA / Test Automation Professionals

**300+**  
Data Models Developed

**25+**  
EDW Projects



## CitiusTech Key Contacts



**Swanand Prabhutendolkar**  
Sr. Vice President  
Data Management

Swanand has 20+ years of experience in Information Technology across companies such as EPIC, Polaris and 3i Infotech. He leads CitiusTech's Data Management proficiency. He has also been a key architect of CitiusTech BI-Clinical platform.

Swanand has strong experience in regulatory reporting requirements such as MU, and healthcare standards and frameworks including HL7.

Swanand holds a Masters Degree in Information Technology.

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**Rahul Mehta**  
Sr. Vice President  
Delivery Management

23+ years of experience in IT industry, with 18+ years in healthcare product and program management, implementation and service delivery. In CitiusTech He Leads the Data Management proficiency and is the proficiency delivery lead for Bigdata, BIDW and Analytics and Interoperability practices

Prior to CitiusTech, – Rahul has spent large part of career in GE Healthcare, Abbott Labs and Motorola focusing on US healthcare, Medical Devices & interoperability technologies

Rahul holds a Bachelors degree in Electronics Engineering and Masters degree in Computer Science from University of Texas.

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**Ketan Mamtora**  
Principle Architect  
BIDW Practice

Ketan has 16+ years of experience in managing large Enterprise Data Warehouse and Business Intelligence projects that include ETL, Warehousing and Cloud Technologies.

Ketan leads CitiusTech's BIDW Practice responsible for Solutioning and Architecting Data strategy for HealthCare organizations. He has strong experience in MU implementations, HL7, CCD, coding standards, expertise in data integration and mapping, healthcare data model design and custom data mart design.

Ketan holds a Masters Degree in Computer Application.

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