

Welcome to the Webinar!



Great Place To Work。 Certified

USA

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About 314e





Established in 2004 to provide resource staffing and services, with an exclusive focus on healthcare IT



Headquartered in San Francisco, CA with a regional office in Philadelphia, PA and offshore delivery center in Bangalore, India



Being organically grown, with no external funding, has enabled us to focus on customer needs without external pressures



Industry partners/affiliations: CHIME, HIMSS, HFMA, Epic, HL7, Microsoft, AWS, Snowflake, Qlik, Tableau, InterSystems, Citrix



Best in KLAS for Technical Services, consistently high rankings in HIT Implementation & Staffing



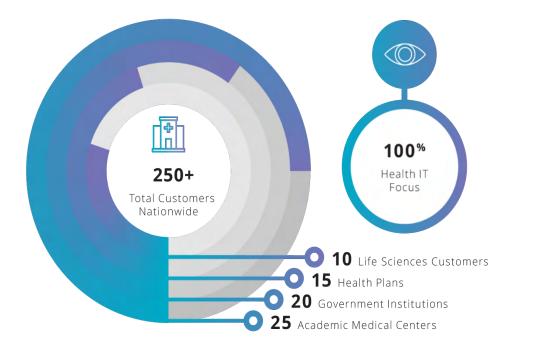
Certified Minority Business Enterprise by National Minority Supplier Development Council



314e Experience and Services



Providers, Payers, and Life Science Customers



Deep and broad experience across the Epic lifecycle with 200+ Epic clients and 20+ years in the Epic space

Collaborative approach and use of best practices to enable client success. improve efficiency and data usage and reduce costs

Full suite of IT services, resources and products for healthcare organizations

EHR, Ancillary, ERP: Advisory, Implementation, Training, Go-Live Support, Digital Learning, System Upgrades and Optimization

Interoperability Services: Interface Development, Data Conversion & Archival, FHIR®

Data/Analytics Services: Business Intelligence, Big Data, Data Warehousing, ETL Processing, Data Quality, Master Data Management, Reporting and Data Visualization

Technology Services: Custom Programming, Robotic Process Automation, Digital Transformation, Cloud Adoption/Migration, Testing

Payer Services: Claims Platform Configuration and Testing (TriZetto, Facets, QNXT, HealthEdge, Tapestry)

Other Services: Managed Services, Staff Augmentation, Offshore Services, Products



Jumpstart your Health Data Strategy

Best Practices for Health Data Platforms

Dr. Siv Raman Chief Product & Analytics Officer

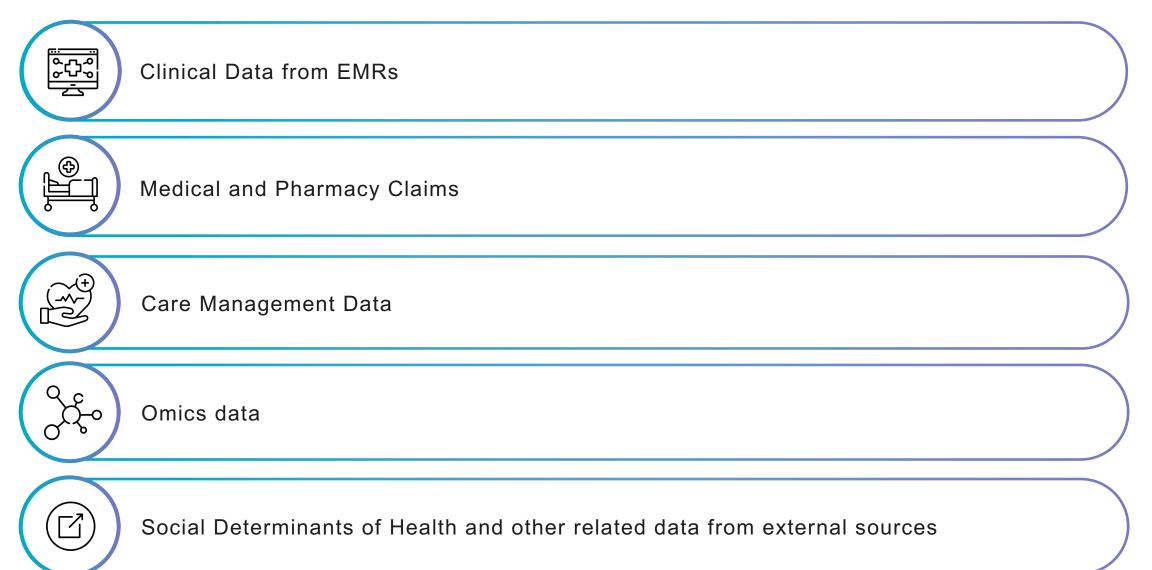


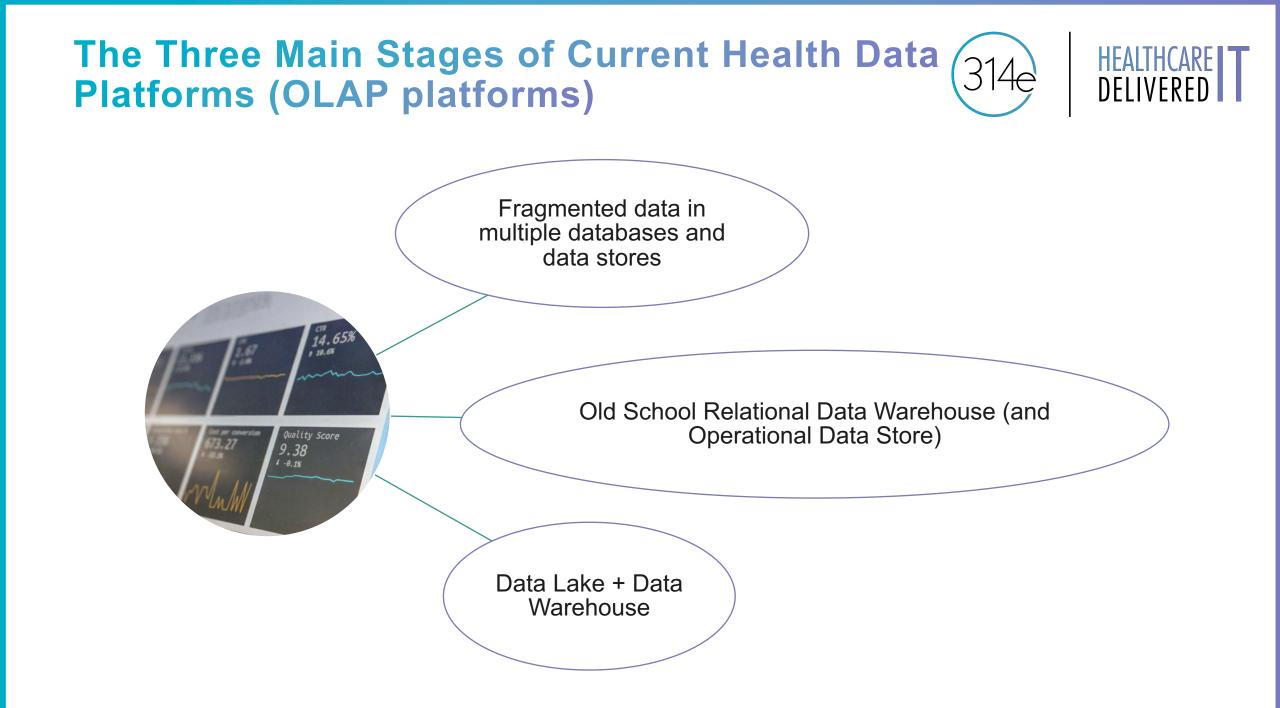


Types of Healthcare Data









Use Cases for Robust Health Data Platforms







Clinical Reporting



Financial Reporting



Business Intelligence and Analytics



Competitive Intelligence and Benchmarking



Visualization and Dashboards



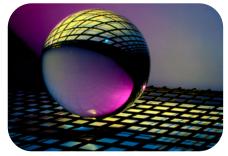
Clinical Measures



Compliance and mandatory reporting and analytics



Population Health Management related analytics and reporting



Artificial Intelligence/Machine Learning and Predictive Models



Applications and APIs built on top of the Data Platform

BEST PRACTICE 1: Industry-Standard Data Models for Clinical and Claims Data







Fast Healthcare Interoperability Resources (FHIR)-based models



Clinical Data -- FHIR Clinical (EMR) Data Resources



Medical and Pharmacy Claims Data

- -- Explanation of Benefits resource in FHIR
- -- All Payer Claims Database (APCD) Data
 - Specifications and the APCD Common Data Layout

BEST PRACTICE 2: Enterprise Master Patient/Entity Index





There is a need to link individuals if

- the same patient/member is represented in multiple streams and types of data with no linking identifier

-- Enterprise Master Patient Index (EMPI) within the data management platform

OpenEMPI (Open source EMPI)Commercial EMPI offerings

BEST PRACTICE 3: Managing ETL and ELT effectively





ETL: Extract-Transform-Load (Traditional processes to load the Enterprise Data Warehouse)

ELT: Extract-Load-Transform (When a Data Lake is being used)

Lambda Architecture: Batch, Speed, and Serving Layers

Processing tools: Spark, Kafka, etc.

Consider a Lakehouse instead of a traditional Data Lake + Relational Data Warehouse

BEST PRACTICE 4: Enable the use of **Multiple Tools**





- Standard Business Intelligence (BI) Tools like Tableau as well as SQL and NoSQL querying.

- Reporting and analytics using tools and programming languages like Python, R, SAS and SPSS, as well as advanced BI tools.

- Visualization using libraries and programming languages.

- Artificial intelligence and machine learning algorithms and predictive (Python, Spark, Scala, R, ...)

BEST PRACTICE 5: Enable Additional Processes





A process to reconcile clinical, claims, and other types of data on the same member/patient

De-duplication algorithms

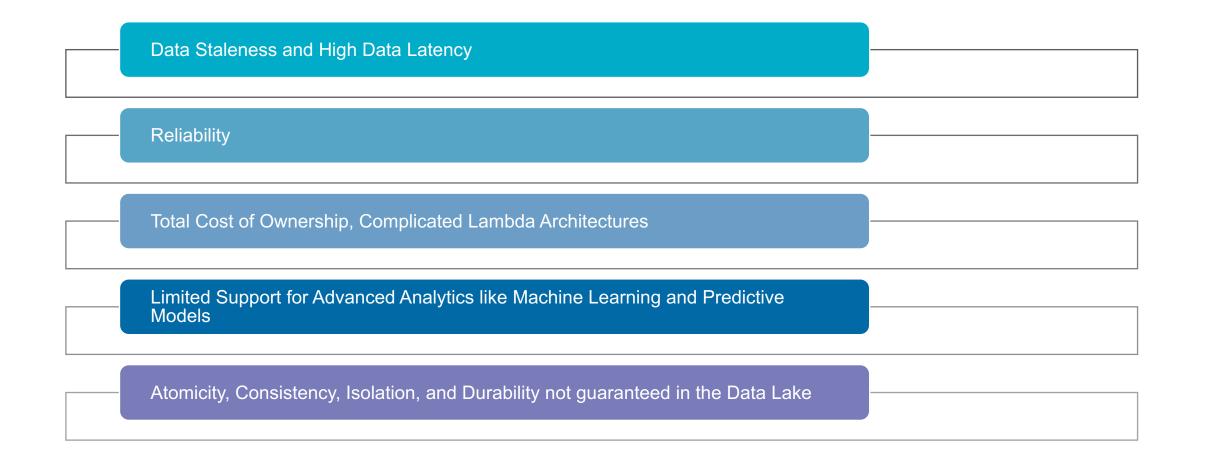
Master Data Management, including an understanding of the "source of truth" and a "single version of the truth"

Quality Control

Problems with Current Data Warehouses and Data Lakes







The Muspell Health Data Management and Analytics Platform by 314e





314e Health Data Services

Data Strategy and Advisory Services

Data Platform Implementation

Industry-standard data models like FHIR for healthcare data.

Excellent SQL compliance, fully

ACID transaction support.

Incorporates Master Data Management, Quality Control, robust ETL and ELT processes, and an Enterprise Master Patient Index.

Full support for advanced

analytics like machine learning

and Al.

ETL, ELT services

Business Intelligence, Visualization, and Reporting Services

Easy access through multiple Business Intelligence and Visualization tools.

Support for applications and APIs.

Application and API development



Questions & Answers



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Certified JUN 2021-JUN 2022 USA



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