PLATFORMS > H-SCALE

CitiusTech: H-Scale (Healthcare Big Data Platform)

H-Scale enables organziations to manage large structured and unstructured healthcare data sets. Organizations can integrate H-Scale with their existing healthcare apps to rapidly build their customized big data solutions.

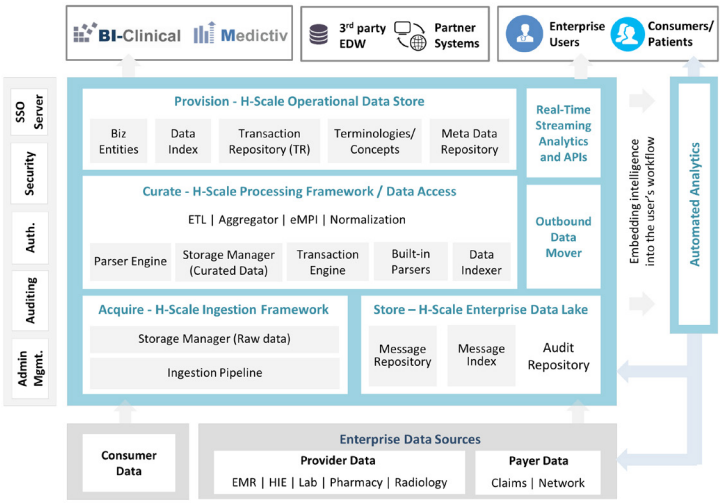
Big data technology is enabling many organizations to leverage massive and diverse data sets to generate business insights and drive performance. The healthcare industry today generates massive volumes of data from EHRs, claims, medical devices, labs, pharmacies, and from new data sources like consumer apps, genomics, etc. However, healthcare organizations need to make significant healthcare-specific customizations and adaptations to standard big data tools like Apache Hadoop before they can effectively use them.

H-Scale: Overview

H-Scale, CitiusTech's big data platform, enables healthcare organizations to leverage Hadoop and other big data technologies, while addressing key healthcare requirements like managing large unstructured data sets, automated and streaming analytics, real-time processing, advanced analytics, data security and privacy and interoperability support (HL7, FHIR). The SaaS delivery model allows organizations to quickly ramp up their big data processing and analytics capabilities. H-Scale provides core capabilities to parse, store, manage and query massive healthcare data sets, enabling organizations to focus their effort on building their custom big data solutions in an accelerated and cost-effective manner.

Key Use Cases

- **Healthcare data lake and data mover:** 'Single source of truth' with a centralized repository to aggregate, store and manage structured and unstructured data and for easy retrieval, analytics or ETL to downstream systems of processed data
- **Automated and streaming analytics:** Real-time alerts, notifications and events based on configurable clinical, utilization and financial rules
- **Low ETL costs:** Use of Hadoop to support scalable and flexible data repository for true “late binding” and “no binding”
- **Real-time processing:** Framework for real-time data processing and distribution of insights generated
- **Advanced analytics:** Machine learning, statistical, predictive and NLP algorithms for mining healthcare data



H-Scale: Healthcare Big Data Platform

H-Scale: Key Focus Areas

Healthcare Data Management:

- Achieve semantic interoperability by standardizing the foundational and structural characteristics of incoming data
- Enable control and monitoring in real time to take action at the root level and ensure person identification to manage data quality

Network Intelligence:

- Monitor organizational KPIs with real-time and automated analytics
- Mange patients, processes and staff in real time, supported by data aggregation across the care continuum