TRACE3

DATA INTELLIGENCE

At Trace3, we believe all roads lead to the cloud. Everything we do aims to enable customers to grow faster and operate their businesses efficiently and securely.

Trace3 consulted with a leading Healthcare provider to develop a framework for identification and prioritization of enterprise analytics capabilities.   Business drivers for the client included the need for robust reporting, predictive analytics, improved patient outcomes, an enhanced patient experience, and lower service delivery costs related to patients in and out of the client's facilities.

The solution designed and delivered by Trace3 provided a reference architecture, roadmap, and implementation strategy for a secure Enterprise Data Warehouse (EDW) capable of integrating data from multiple internal and external sources. The solution enables the client to scale growth efficiently and securely while speeding solution deployment, supporting expanding data complexity and volume, and lowering operational data and reporting costs.

THE CHALLENGE

Client needed a framework to identify and prioritize analytics capabilities, to assess their own competency levels, and to compare those levels against industry peers.

Client lacked working knowledge of solution technologies, where the technologies' capabilities intersect and complement each other, and their comparative advantageous/ disadvantageous.

Client required strategy to plan and implement analytics and EDW work streams, to identify supporting skill sets, and to integrate the design and build activities.

Client needed assistance to communicate to executive management the value of enhanced analytics and an EDW to support strategic initiatives.

THE SOLUTION

Identified analytics capabilities and client's gaps through Trace3-enhanced HIMSS-oriented analytics capability maturity model.

Defined nearly 200 metrics covering 5 major capabilities: data content, infrastructure and tooling, data governance, analytical competency, and people & culture.

Benchmarked current state against other healthcare providers and industry trends.

Developed 3-year roadmap, implementation and resourcing plan, and cost estimates to achieve targeted capabilities maturity levels.

Recommended new technologies for EDW, reporting, data virtualization, Hadoop, self-service data preparation, data cataloging/ tagging, and AI/ML/DL including **Paxata**, **Denodo**, **Tibco Composite**, **Cloudera**, **Waterline**, and **Dataiku**.

THE BENEFITS

Achieved faster business outcomes leveraging improved and refined data analytics tools, processes, and strategy.

Reduced time to data access via data virtualization, and improved time to insight for all stakeholders through self-service data prep and visualization, and EDW accelerators.

Accelerated productivity of business and data analysts and business leaders by infusing the meta data with business context through data cataloging.

Enabled the analysis of unstructured data, including physician notes, via Hadoop and NLP to improve patient outcomes and decision times.

Established near real-time visibility of events via data stream processing.

Enabled predictive and prescriptive analytics positively impacting the patient experience.

Aligned analytics capabilities to strategic initiatives by quantitatively measuring capabilities maturity levels and setting realistic maturity level targets.

Please visit www.trace3.com for more information and to learn how Trace3 can help you with your Data and Analytics needs.

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