

Deloitte ConvergeHEALTH Miner™

A Real-World Evidence (RWE) Platform for Life Sciences Organizations Running on AWS

Life Sciences organizations are adopting new approaches for sharing and analyzing information to improve results in their research and development (R&D) processes.

- More than 80% of major biopharmaceutical companies either have a program underway, or expected to begin one in 2017, according to a recent Deloitte survey¹.
- However, data are frequently siloed, preventing researchers from gaining insights derived across studies and programs.
- An industry shift toward value-based, personalized health care is moving innovators to think differently about their end-to-end evidence management strategies and operating models.

A solution for pharmaceutical R&D that runs on AWS

The Miner solution offers a modular suite of tools and services to help accelerate evidence generation and management across the pharmaceutical R&D life cycle:



Translational Informatics

Enable big data solutions to optimize collection and utilization of clinical biosamples and enable complex phenotype and genotype analyses.



Real-World Evidence

Empower knowledge management, collaboration management, and analytics to facilitate turning real world data into real world evidence.



Product and Portfolio Management

Facilitate an effective transition to a metrics and data driven operation for all aspects of drug program and product management.

CHALLENGE

The shifts toward value-based care and precision medicine are creating new demands for evidence generation, knowledge management systems, and the need for flexible, scalable data storage and computing.

SOLUTION

These trends are fundamentally changing the way pharmaceutical and other Life Sciences organizations need to do business. Deloitte ConvergeHEALTH Miner™, built on AWS, enables organizations to harness the full potential of their data and insights.

Features of Deloitte ConvergeHEALTH Miner

Success in managing evidence will require increased transparency, advanced analytics, and linkages between disparate data types across the medical product's value chain. ConvergeHEALTH Miner helps Life Sciences organizations with benefits including:

- **Improved time to insights** with collaborators both internally and externally.
- Faster performance in complex cohort definition **up to 50xⁱⁱ**.
- **3x increase in performance** vs. existing environmentⁱⁱⁱ.
- **Greater transparency** in documenting cohort definition.
- **Improved organizational learning opportunities**.

Technical components of Miner include:



Data Asset Explorer (DAE)

Salesforce-based application to enable the processing of information management, exploration, sharing, and governance.



Cohort Insight (CI)

Self-service web-based cohort building through a user-friendly UI, enabling clinical researchers to create cohorts using phenotypic or genotypic data from multiple data sources with no coding required.



Research Trust (RT)

Hadoop-based data platform to hold and integrate research, patient, and operations data; supports downstream analytic and visualization applications in medical and translational research.



Data Science Library

Pre-built tools for data manipulation, model fitting, and visualization in SAS, R, and Python. Additional tools pre-built for multiple focus areas including social media data pulls and analysis, text analysis, adverse event prediction, and causal inference.

Why Deloitte for Biopharma R&D RWE Solutions?

Deloitte brings a holistic approach to driving impact for our ConvergeHEALTH solution clients.



Deloitte uses AWS tools to speed up the deployment of our ConvergeHEALTH solutions to ensure adoption and business impact.



Deloitte clients have received market recognition for their innovative use of analytics and AWS.



About ConvergeHEALTH Miner™ Evidence Lifecycle Management Platform



Deloitte developed their ConvergeHEALTH Miner solution in response to the growing demand for data-driven insights and evidence lifecycle management in pharmaceutical research and development. Built on AWS, ConvergeHEALTH Miner is designed to help Life Sciences clients to rapidly realize the promise of real-world evidence and big data analytics. The integrated cloud-based analytics, knowledge management, and collaboration platform enables clients to have improved visibility into data assets, which enhances and expedites analysis and insights that shorten development times and uncover new opportunities.

Getting Started

Learn more about [ConvergeHEALTH Miner](#).

ⁱ Deloitte Study, *Getting Real with Real World Data*. Published March 2017

ⁱⁱ Deloitte Client reported results 2017

ⁱⁱⁱ Deloitte Client reported results 2017

Deloitte.

About Deloitte

As used in this document, "Deloitte" means Deloitte Consulting LLP, a subsidiary of Deloitte LLP. Please see www.deloitte.com/us/about for a detailed description of the legal structure of Deloitte USA LLP, Deloitte LLP and their respective subsidiaries. Certain services may not be available to attest clients under the rules and regulations of public accounting.

Deloitte is recognized as an AWS Partner Network (APN) Premier Consulting Partner and has achieved the AWS Life Sciences Competency. Learn more about the [Deloitte and AWS relationship](#).

