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ConvergeHEALTH™

AWS Data Exchange

The future of health: unlocking the value of digital health data

The industry need

The lifeblood of biomedical research and innovation is rich health care data. Today, despite the increasing amounts of health care data generated, most health care data is inaccessible to other organizations for collaboration for a myriad of reasons ranging from security concerns to technology constraints to business model challenges. These challenges mean that the health care system is not fully benefiting from the insights of the secondary use of all this digital health data. This slows the pace of healthcare innovation and limits the potential to improve the lives of patients and our medical system.

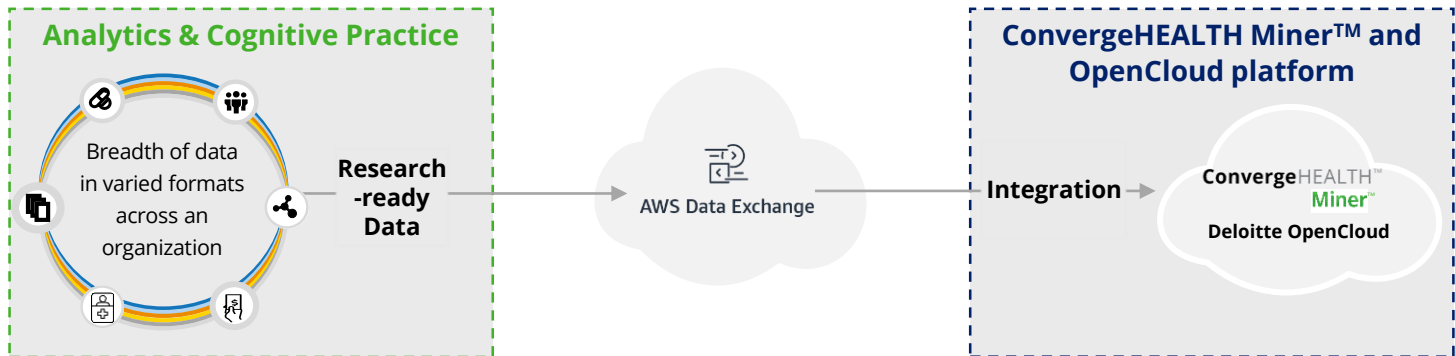## Working to create new health ecosystems through data

Amazon Web Services (AWS) Data Exchange is unlocking a number of data sources that have traditionally been locked in siloes across multiple organizations, and gives health care stakeholders a scalable and secure service to create new collaborative business models to reimagine how they approach research, clinical trials, pharmacovigilance, population health, and reimbursement. Building on its existing relationship with AWS, Deloitte is addressing unique health care data challenges by offering a suite of services based on AWS Data Exchange that can help create an efficient, robust, and secure health care data ecosystem.

AWS Data Exchange enables innovative business models between health care stakeholders by creating a secure, scalable infrastructure for data exchange. ConvergeHEALTH Miner's integration with AWS Data Exchange will help organizations derive insights to redefine the way they approach existing processes and research by giving organizations access to a variety of new digital data sources, in addition to their own data.

"The explosion of digital health care data and advances in artificial intelligence and machine learning hold the promise to answer some of health care's most important questions - what's working for whom, why, and at what cost. However, this data is locked in siloes across many organizations within the health ecosystem. The industry needs new business models that break down these silos to connect health care stakeholders, reduce inefficiencies, accelerate the translation of research to practice and improve patient outcomes. AWS Data Exchange provides the technology platform and infrastructure that supports these new business models." – Brett Davis, principal, Deloitte Consulting LLP and general manager, ConvergeHEALTH by Deloitte

Deloitte and AWS Data Exchange health ecosystem

Together, Deloitte and AWS Data Exchange can help organizations realize the value of their health care data. Deloitte's suite of services can help organizations curate real-world data sources and then enable you to share that data in a secure and responsible way through AWS Data Exchange.

Deloitte's Analytics and Cognitive practice helps health care organizations extract, cleanse, abstract, de-identify, and transform their EMR, lab, registry, and other data. New formats will allow these organizations to draw insights for their own use as well as for new collaborative models using AWS Data Exchange as a cloud native platform for exchange.

AWS Data Exchange is a new cloud-based service that helps organizations quickly and easily find, share, provision and consume data between organizations. It enables new collaborative business models between health care stakeholders by creating a secure, scalable infrastructure for data exchange under terms and conditions data owners can control.

Deloitte's ConvergeHEALTH Miner™ and OpenCloud platforms create a powerful and secure Managed Cloud Service that enables health care organizations to share data in an auditable and secure environment. With its integrated cloud-based analytics, knowledge management, and real-world data tools, this service can support multi-organization collaborations across research, clinical trial design, and outcomes-based contracting.

"Deloitte's ConvergeHEALTH Miner platform empowers life sciences and health care organizations to drive transformation toward value-based, personalized medicine by applying integrated cloud-based analytics, knowledge management, and collaboration tools. By integrating the AWS Data Exchange API into ConvergeHEALTH Miner, we're giving our customers a quick and easy way to find, subscribe to, and use data from third parties alongside the data they're already generating and analyzing in the cloud." – Brett Davis, principal, Deloitte Consulting LLP and general manager, ConvergeHEALTH by Deloitte

"AWS Data Exchange provides a secure and cloud-native channel to exchange data at scale, with cloud-based solutions like ConvergeHEALTH Miner supporting the analytical needs for data analysts, academic researchers, and data scientists in the medical community. We're delighted to be working with Deloitte on AWS Data Exchange to help life sciences and health care organizations establish their strategies around the new data-driven collaborations and business models, while also helping data publishers with the engineering tasks needed to package, aggregate, and anonymize their data for collaboration." – Stephen Orban, general manager, AWS Data Exchange, AWS

Empowering life sciences and health care organizations with real-world data and insights

Health care providers - Understand patient health risks, improve clinical trial strategy, and enable research connections to drive better patient care and precision health

Biopharmaceutical companies - Real-world data gathering can help discover new medicines, understand patient journeys, improve clinical trial design, and accelerate clinical development

Health plans - Access new consumer, product, outcomes, and social determinants data to generate insights and empower health plan leaders to make more informed decisions

Innovators - Leverage insights from real-world data sources to bring new consumer health products to market and continue to improve patient access to daily well-being and quality care

Academic researchers - Increase the scale and impact of organizations research by collaborating with others in new and innovative ways

Case Study: AWS Data Exchange & ConvergeHEALTH Miner™ in Action

A global biopharmaceutical company saw AWS Data Exchange as an opportunity to capture process efficiencies, access new sources of data and reduce time to insights. By requesting current data vendors to fulfill and deliver data through the new AWS service, they have also been able to identify new data products in a 'one stop shop', easy-to-use platform where researchers and data scientists can search for, discover, and request access to data.

In addition to improved data access, the integration of ConvergeHEALTH Miner™ with AWS Data Exchange creates a connected ecosystem that allows users to access data from a single place. It also supports analysis across disparate data sources with a suite of self-service applications and advanced analytics tools.

These benefits together reduce time to identify relevant data, establish access agreements, and provision data from months to minutes. Ultimately, this means less time to insights – which in the healthcare space can mean shorter time to new therapies and treatments.

Start the conversation

Visit **www.deloitte.com/us/aws-data-exchange** for more information.

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