

How to Find and Connect the Right Health Data For Stronger Predictive Analytics

In this short e-book, you'll get:

- High-level overview of how the Datavant Switchboard powers Predictive AI
- Visual map of the Healthcare Data Ecosystem
- Two case study examples



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Connect to the world’s largest RWD ecosystem through the Datavant Switchboard

To build the best predictive models, companies need access to massive amounts of data – ideally longitudinal data about a patient’s journey through the health system. This requires linking patient-level real world data (RWD), which is time consuming to source across fragmented data silos, difficult to connect, and requires strict adherence to patient privacy regulations under HIPAA.

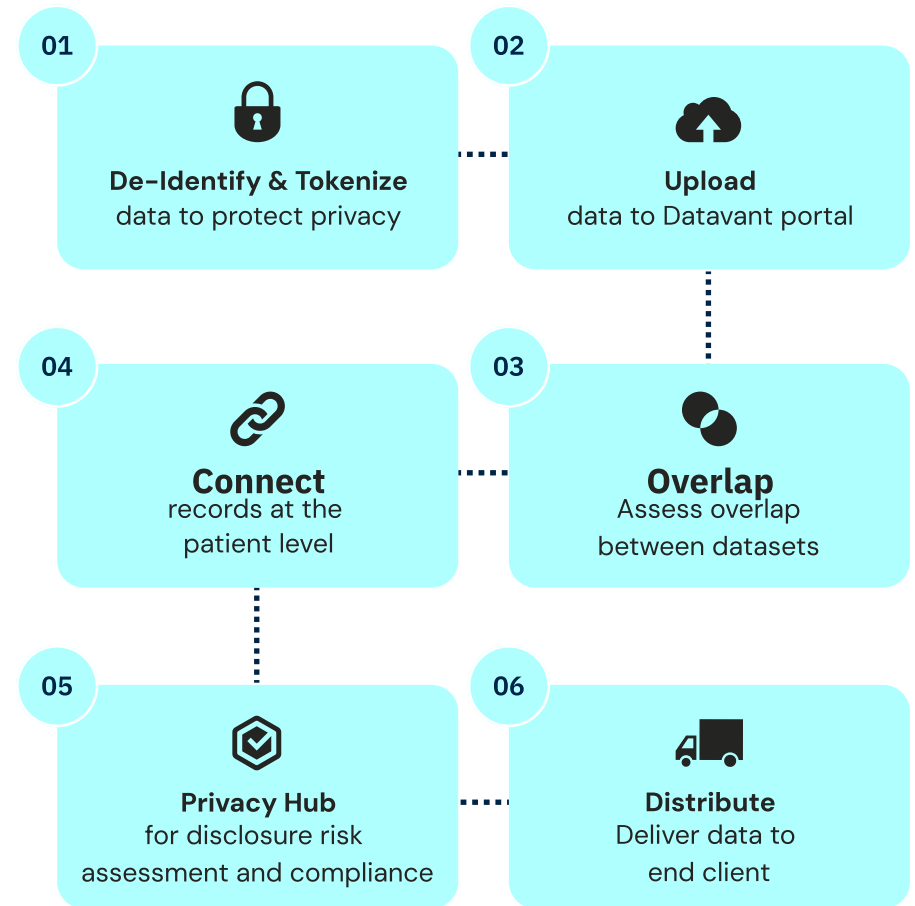
The Datavant Switchboard solves these challenges as the neutral, trusted, and ubiquitous infrastructure for health data connectivity. Organizations building predictive analytics can securely de-identify and link patient-level health data to over 500 RWD sources in our partner ecosystem, all while preserving patient privacy in compliance with HIPAA regulations.

Data sources include:

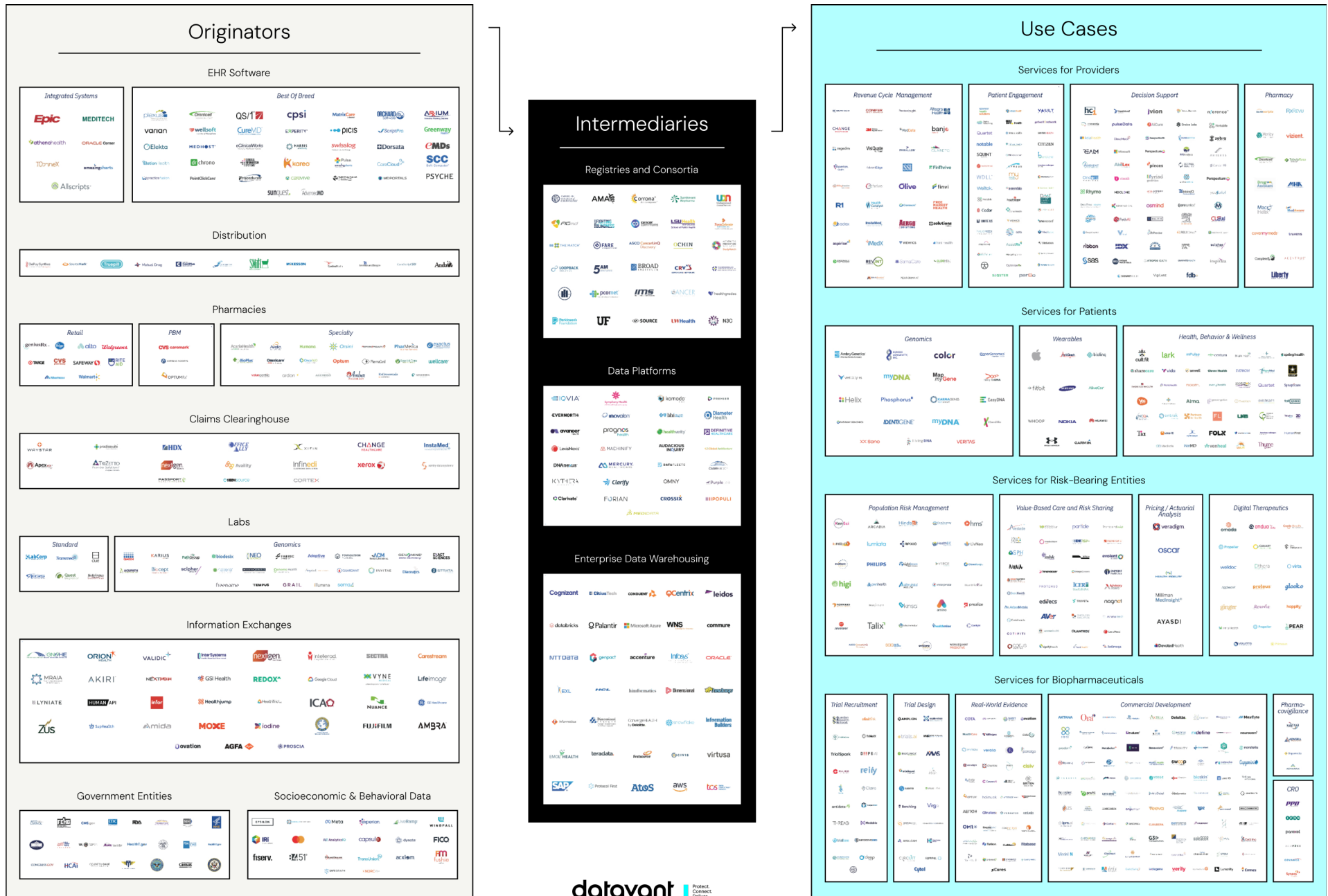
- Top 10 claims data sources
- EHR data across many rare disease areas
- Labs data
- Mortality, specialty pharmacy, genomics, and more

The Datavant Switchboard: An end-to-end solution

In addition to de-identifying and linking data, the Datavant Switchboard includes tools to help you find and assess data partners. Explore datasets on demand, and run reports to understand overlap between datasets before entering into a formal partnership.



A map illustrating stakeholders across the healthcare data ecosystem, compiled by Datavant in 2022. [Download the map here.](#)



Predictive analytics company builds rare disease diagnostic model



Problem

A pharmaceutical company developed an FDA-approved therapy for an ultra-rare, life-threatening disease. The company wanted to reduce the time to correctly diagnose patients and identify appropriate candidates for therapy, and needed a predictive analytics company to build a model that could combine fragmented datasets to provide a complete, longitudinal view of the patient. But under HIPAA, the data sources were not able to share identified data with either the pharma company or the predictive analytics company.



Solution

Datavant worked with the predictive analytics company and the pharma company to find several different data sources that offered claims, genomic, or EHR data. The Datavant Switchboard allowed the partners to 1) assess the data sources for maximum coverage for the population of interest, 2) de-identify each record using privacy-preserving record linkage (PPRL), and 3) distribute the de-identified data to the predictive analytics company, who built an aggregated, longitudinal dataset to power its models.



Result

As a result of the predictive model, the pharmaceutical company implemented targeted education, outreach, and training of specialist care providers. This led to an increase in diagnostic testing for the ultra-rare disease, and an additional 66 patients were diagnosed and therefore more likely to receive the care they need.



Claims Data



Genomics Data



EHR Data

AI solutions provider for insurance industry links data to newly acquired business unit

Problem

An AI solutions provider, known for innovation in assessing group health risks, acquired a health analytics business' medical underwriting unit in order to expand its medical database.

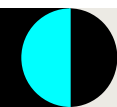
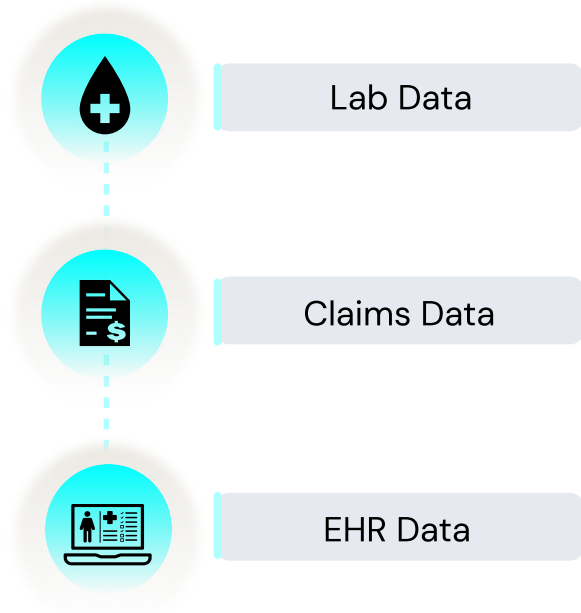
The AI company needed to create a single point of access to multiple data sources, covering medical, prescription, and lab data.

Solution

Datavant powered the compliant exchange of data between the two parties by tokenizing the data (converting patient identifiers to the Datavant token) and transforming the tokenized data prior to sending or upon receipt from data sources.

Result

With the linkage, the AI company became the only company in the group medical insurance market to provide medical, prescription, and lab data from a single source. Insurers benefit by having further insight into group members' health for more informed risk assessment across the population.



Power your AI and predictive analytics with the nation's largest RWD ecosystem.



About Datavant

Datavant protects, connects, and delivers the world's health data to power better decisions and advance human health.

Datavant is a data logistics company for healthcare whose products and solutions enable organizations to move and connect data securely. Datavant has a network of networks consisting of thousands of organizations, more than 70,000 hospitals and clinics, 70% of the 100 largest health systems, and an ecosystem of 600+ real-world data partners.

Learn more

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