



## CASE STUDY

# Healthcare Triangle Facilitated Secure Data Sharing for a Leading Pharmaceutical Company through Neutral Zone™, the Collaborative Data Platform

### The Client

Healthcare Triangle's customer is a global pioneer in pharmaceuticals and diagnostics and a leader in personalized healthcare, drives individualized solutions for patients by leveraging the power of real-world data, artificial intelligence, and technology. They focus on advancing science to improve human life and continue to search for better ways to prevent, diagnose and treat diseases. They also aim to improve patient access to medical innovations through collaboration with suitable stakeholders.

### The Need

Our customer has a vast amount of data and is involved in several collaborative initiatives with other healthcare and pharmaceutical companies to create faster and personalized drug discovery. The pharma giant wanted to share data with a global biopharmaceutical company to develop highly personalized cancer treatments without sacrificing the security of that data or putting their intellectual properties (IP) at risk. They were looking for a solution that will be able to:

- Provide a secured IT architecture and infrastructure to support collaboration and data sharing between different entities adhering to compliance needs
- An interconnecting space that can adhere to every individual organization's jurisdiction and legal requirements
- Get access to insights gathered by pooling individual organizations' data together for analysis by artificial intelligence technology

### Reasons for Choosing Healthcare Triangle

Healthcare Triangle (HCTI) has strong knowledge and exposure to all major products and services in the field of advanced analytics both in open source and enterprise products/solutions.

HCTI's **Neutral Zone™**, the secure, and compliant data collaboration platform managed by **DataEz™** performs collaborative research **without sacrificing security of IP or PHI** and access to a broad range of data for analysis—**in days rather than months.**

DataEz™, the **HIPAA-compliant** and **HITRUST certified AI** engineering and analytics platform ensures robust access control and proactive monitoring of data while collaboration with life sciences and healthcare organizations – even with competitors to revolutionize drug discovery and personalized medicine.

### The Solution

Using HCTI's Neutral Zone™, under the collaboration with a global biopharmaceutical company, our client helped create an AI-based image analysis algorithm to aid pathologists in interpreting an on-market assay approved by the FDA that is used as a companion diagnostic for non-small cell lung cancer patients. Our customer used their recent open-environment collaboration to integrate an AI-powered algorithm for CD8 biomarker analysis.

Once the algorithm was created, it was used by the biopharmaceutical company for clinical trial samples to collect biomarker data which was then used to develop new cancer treatments, highly personalized to a patient's biology and tumor makeup.

## AWS Integrations

### Amazon Redshift:

HCTI's Neutral Zone™ uses Amazon Redshift to securely collaborate data among the clients. Using Amazon Redshift, HCTI reduced operational costs, shortened extract, transform, and load (ETL) times, and scaled operations for the customer.

### Amazon QuickSight:

HCTI fully integrates QuickSight into Neutral Zone™ to support advanced analytics and reporting at an unlimited scale for our customer. QuickSight's deep security & services integration, and ML capabilities enabled HCTI to provide a seamless embedded analytics experience at a fraction of the total cost of ownership of other BI platforms.

The QuickSight dashboard allows secure access to interactive data and provides a 360-degree view of the patient/clinical data, expanding the use of data to improve patient care and accelerate drug discovery.

As a third party, HCTI's Neutral Zone™ gave both leaders, the ability to allow access to specific data only to the algorithm that will analyze the data for their research. It enabled the confidence in data sharing as these data with Neutral Zone™ are essentially "shared but sealed." The raw data are never disclosed, and data owners can control which portions of a data set are used and how they are used.

HCTI's Neutral Zone™ platform facilitated all analytics operations on the data with multiple layers of security without compromising on the agility. The platform provided the capacity for ingesting, processing, and gaining insights from data while ensuring security and compliance, self-cataloguing, and automated data quality checks.

## Business Benefits

HCTI's Neutral Zone™ platform supports access to a broad range of data—from both organizations from clinical trials—as well as data science capabilities in days rather than months. Some other business benefits include:

- Accelerated personalized medicine based on patient's health problems
- Increased ease in establishing a foundation for cloud-based research
- Enhanced compliance with HIPAA, HITRUST, and more. Thus, able to achieve collaborative research without sacrificing security of IP or PHI
- Greater flexibility and agility in establishing short-term and long-term partnership arrangements for healthcare and clinical discovery with fellow organizations



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Reinforcing Healthcare Progress™

Healthcare Triangle, Inc.™ (HCTI), based in Pleasanton, Calif., reinforces healthcare progress through breakthrough technology. HCTI achieves HITRUST Certification for Cloud and Data Platform (CaDP) to manage risks. We support healthcare and life sciences organizations improve health outcomes by enabling the adoption of new technologies, data enlightenment, business agility, and accelerating the value of their IT investments. HC/LS turn to HCTI for expertise in cloud transformation, security and compliance, data lifecycle management, and clinical/business performance optimization.

For more information, please visit [www.healthcaretriangle.com](http://www.healthcaretriangle.com).

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