Data Sciences and Analytics

DLH looks to build our customers' capacity to collect, analyze, and utilize data, unlocking crucial insights that improve program performance.

Case Study
Our customer was grappling with an enduring health challenge: how to help hospitals in rural areas which struggle with patient access, clinical treatment, staffing, and financial performance. Operators looked to implement a series of interventions – including telehealth, ambulance, and swing bed expansion -- that could improve health outcomes, but the customer lacked the ability to accurately access and monitor the results.

DLH developed a comprehensive data collection and analytics framework, designing tools and training staff on their use. As the data rolled in, we undertook a thorough analysis, comparing trends against state and national benchmarks. Drilling deep into the data, our experts were able to explain our findings to the customer and recommend how best to modify practices and procedures to improve patient outcomes.

Capabilities
From collection and harmonization, continuing through exploration and visualization, and culminating with thorough analysis, communication, and implementation, our analytics, statistical, and data management support capabilities are informed by a deep knowledge of the health and human services realms within which our customer's work is conducted. We apply an iterative, prototype-driven delivery using Agile and DevOps methodology to design and implement all aspects of data analysis. We deliver relevant products that evolve to meet the newest standards, harnessing the power of artificial intelligence (AI) and machine learning (ML) in our solutions.

Statitsical Programing and Data Managment
We provide a full service network for working with data, including the quality control and management of data collected and stored, real-time collection of data, cleaning and evaluation of unusual information, storing of information across multiple IT systems platforms, and imputation of missing information. Dashboard reporting allows DLH and our customers to present relevant data in an understandable and interactive manner. Ease of use, trustworthiness, real-time results, security, and flexibility are our priorities.

Scientiifc Data Analysis
DLH provides statistical and analytical expertise in clinical and nonclinical studies, including the analysis of clinical trials data from preclinical through Phase III studies, analysis of epidemiological and genetics data, mechanistic modeling and analysis of laboratory data, statistical model building and decision-analysis, and development of interactive IT-based software systems. Our statisticians apply their training in biomathematics, demography, and quantitative epidemiology to turn data into knowledge.

Health Informatics
Our data scientists use information science to organize and analyze personal health record data captured through medical research. We acquire data points collected from human interaction with medical devices and systems and analyze that data to better understand how information technology and methods of education improve health outcomes and operational readiness.

DLH at a Glance

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Key Customers

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