

DRIVE EFFICIENCIES, UNLOCK PROFITS AND CUT COSTS

Strategic Data Application in Life Sciences and Pharmaceuticals



COMPETITIVE REALITY

- 1 Increased regulatory scrutiny on a global basis
- Requirements that increase research and development costs while forcing a shift to an outcomes-based reimbursement model
- More stringent guidelines that make finding successful drugs more difficult
- † Changing global patent regimes increase competition from generic drug makers
- † More risk, less upside



GAINING THE ADVANTAGE

- Analyze and comprehend floods of new data sources, such as connected devices, patient monitoring and digital health records
- Improve the efficiency of clinical trials, bring drugs to market faster, reduce operating inefficiencies and make sales teams more successful



DID YOU KNOW?

- Pharmaceutical organizations carefully model potential drug profitability and optimize clinical trials to combat costs
- To achieve results, sales efforts must be sharper and better focused from understanding physician subscription patterns and purchase renewal schedules to holistic trends leading to changes in demand for specific medications



CORE DATA CHALLENGE

Being a data-driven organization requires mastery of both traditional life sciences data sources and a host of new data feeds

| Key Data Sources | | |
|--|---------------------------------------|--------------------------------------|
| Traditional | Digitization of Everything | |
| Clinical trial outcomes | Census data | Physician databases |
| Clinical trial site performance assessment | Electronic medical records | Prescription databases |
| CRM | Historical clinical trial outcomes | Social media feeds |
| ERP | Medical device feeds | Therapy data |
| | Medical journal publications | Third-party disease outbreak data |

ACCESS MORE DATA WITH SELF-SERVICE DATA PREP

Visual interfaces and machine learning bring together patient and trial data with external feeds to conduct business-relevant analytics



compliance requirements

Regulatory and

Mask personally identifiable information

Organizations must take elevated security precautions for data access, change and extraction. From a competitive perspective, R&D data must be properly encrypted and secured to ensure that investments are protected

Unstructured and semi-structured



formats

sources that were never designed to link together

Join data from

outputs of patient monitoring devices and social streams are often stored in repositories and provide non-standard data formats that stress traditional business intelligence tools designed for structured data

SELF-SERVICE DATA PREP UNITES AND TRANSFORMS DATA

analytics

Empower exploratory

useful without relying on IT

Quickly and easily make data

and technical requirementsof data prepConduct data discovery andanalytic transformation

• Remove legacy inefficiencies

analytic transformation

Increase productivity

cleanse and prepare data across the organization

Reduce time to integrate,

• Spend less time bringing all the data together – and more

Utilize more data in analytic

Provide access to raw source data on demand

Extract data from various

time analyzing it

Focus on testing hypotheses

source data on demand

formats and sources directly into visualization and business intelligence tools

and making business decisions

Reduce demands on IT

Improve organizational data usage

Accelerate the time to clean and manipulate data

Identify and fix data quality anomalies quicker

Consolidate siloed data from

past acquisitions and disparate R&D efforts as well as unite core enterprise data with external feeds

4 Crosby Drive • Bedford, MA 01730 • Tel: 800.445.3311 or 978.441.2200 • www.datawatch.com

Get the blueprint: overcome

data aggregation challenges