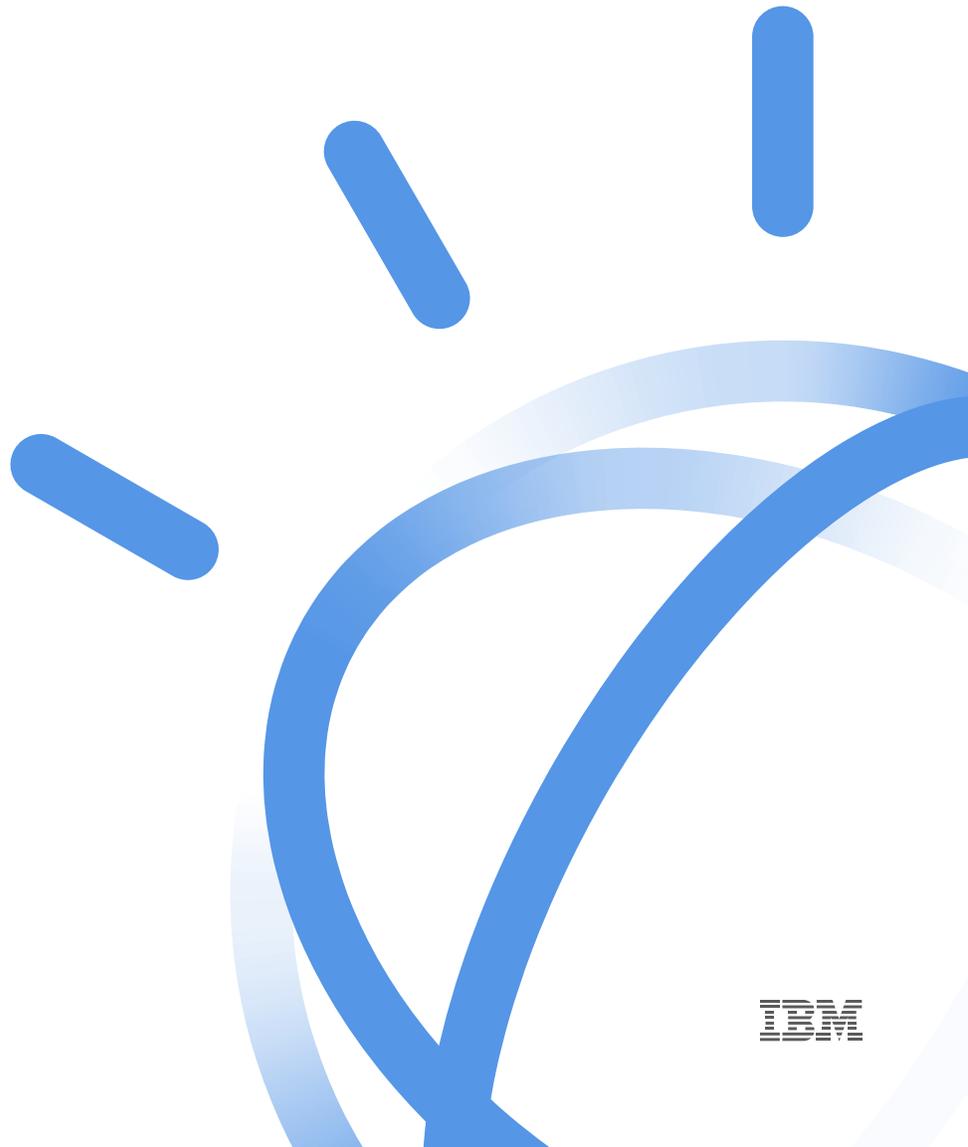


IBM Data Management

Unifying data for better health
insights



Highlights

- Unifies data from disparate sources both inside and outside your organization
- The superstructure is scalable, with engines for curation, data matching, risk stratification, and more
- Open framework structure acts as a repository for billions of searchable data points
- Flexible attribution models, with sorting and filtering customized to help you meet your organizational needs

IBM Data Management Solutions

- IBM® Explorys Platform

IBM Data Management solutions empower healthcare IT teams to rapidly harvest and analyze big data from clinical, financial, and operational systems. These solutions provide a secure, cloud-based superstructure that goes beyond traditional data warehouse capacity, speed, throughput, and cost efficiency, enabling healthcare and life science leaders to improve their business processes.

Problem

Traditional approaches to data management are typically limited to what is available within your organization and often only offer discrete and inflexible schemas. The challenge is how to harness clinical, financial, and other data and translate the big data into actionable insight.

To survive and thrive, healthcare organizations will need to move to flexible and integrated solutions that support their entire enterprise, including data that resides both inside and outside of the organization. The urgency to deploy unifying platforms has never been greater

Solution

IBM Data Management solutions turn big data into information that can be appropriately shared and acted upon by providers, payers, clinically integrated networks, and life sciences organizations. IBM Data Management aggregates nearly all major data sources, including electronic medical record systems, practice management systems, billing, lab, scheduling, and claims sources.

The superstructure provides speed and scalability. A collection of specific engines for data curation, patient data matching, risk stratification, and data governance produces meaningful insights from big data.

Clinically rich statistical data

IBM Data Management solutions process immense amounts of complex clinical, financial, and operational healthcare data at a rate that is faster than traditional technologies.

The data management infrastructure uses an open source framework comprised of big data technologies that ingest data into the flexible IBM® Explorys Data Lake model. The benefit of this structure is that it acts as a staging and storage repository to hold a vast amount of raw data in its native format until it is needed. Each data element is assigned a unique identifier and a set of metadata tags. When a clinical or business question arises, the repository can be queried for relevant data that can be later added to combined data sets.

High speed insights

By using the IBM Explorys Platform, care and quality program designers are able to quickly search and browse populations and billions of data elements surrounding diagnoses, treatment, outcomes, costs, and demographics. In addition, it illuminates over-utilization of expensive venues, procedures, or medications that can contribute to higher costs and put reimbursement at risk.

Extendable

IBM Data Management solutions use a cloud-based open platform and operate in an environment built for future growth, with third-party SQL tool support, strong data management tools, and many options for extensibility. This environment allows for rapid scaling efficiency with options to support premise-based configurations.

No matter of the current size of your organization, IBM Data Management solutions help you quickly identify your target population, view data, and empower decision-making. Its flexible attribution models, business rules engines, and sorting and filtering functions allow registries to be defined as broadly or narrowly as necessary to fit your operational needs.

Data Management: Features and potential benefits

- Aggregates both internal and external data for a more extensive view across the continuum of care.
- Empowers self-service and high-speed data usage across various levels, without requiring additional staff.
- Uses specific engines for data curation, patient data matching, risk stratification, data governance, and other critical tasks.
- Runs in a high-availability, private, and secure cloud, providing rapid scaling efficiency with options to support premise-based configurations.
- Provides virtually unlimited scale to harvest bigger and more diverse data sets that can be transformed and reviewed multiple times.
- Enables IT, analysts, and partners to develop solutions that run on top of the platform, helping eliminate costly and time consuming data integration processes.
- Enables the creation of data marts and application program interfaces (APIs) that can be integrated with third-party commercial applications, population health solutions, business intelligence tools, portals, EMRs, and other internal solutions.

Unifying data for better health insights

IBM Data Management solutions support population health initiatives by analyzing data from all the typical care settings, including ambulatory, acute, long-term care, rehabilitation, home, and specialty care. The platform applies a broad approach to data collection within these venues, while supporting a wide range of data sources. It combines a powerful healthcare computing platform with turnkey solutions for clinical integration, at-risk population management, cost of care measurement, and pay-for-performance solutions.

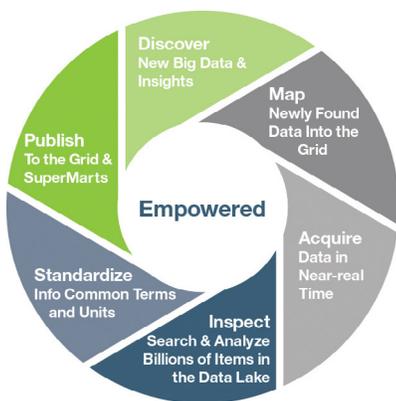


Figure 1: Various stages of unifying data to gain insights; products cited: IBM® Explorys Data Grid (the Grid), IBM® Explorys SuperMart (SuperMarts) and IBM Explorys Data Lake (the Data Lake)

About IBM Watson Health

In April 2015, IBM launched IBM Watson Health and the Watson Health Cloud platform. The new unit will work with doctors, researchers and insurers to help them innovate by surfacing insights from the massive amount of personal health data being created and shared daily. The Watson Health Cloud can mask patient identities and allow for information to be shared and combined with a dynamic and constantly growing aggregated view of clinical, research and social health data.

For more information on IBM Watson Health, visit:
ibm.com/watsonhealth.

Footnotes

1 IBM press release, "Akron General Health System to Leverage Big Data to Improve Care with Explorys", <https://www.explorys.com/press-releases/akron-general-health-system-to-leverage-big-data-to-improve-care-with-explorys>

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