

EBOOK

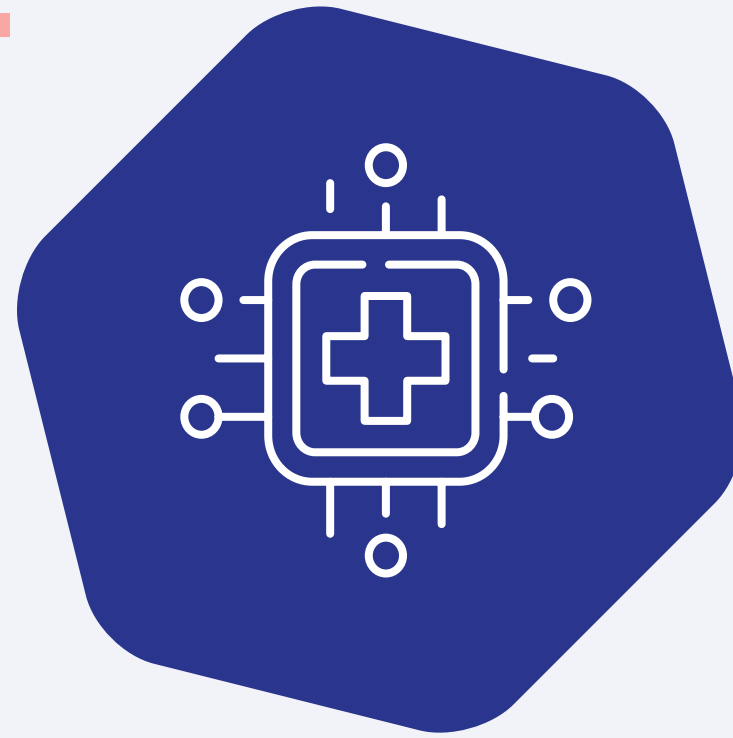
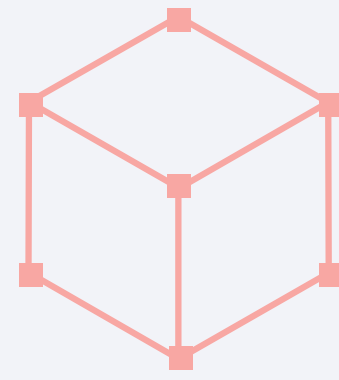


THE RE-INVENTED HEALTHCARE ORGANIZATION

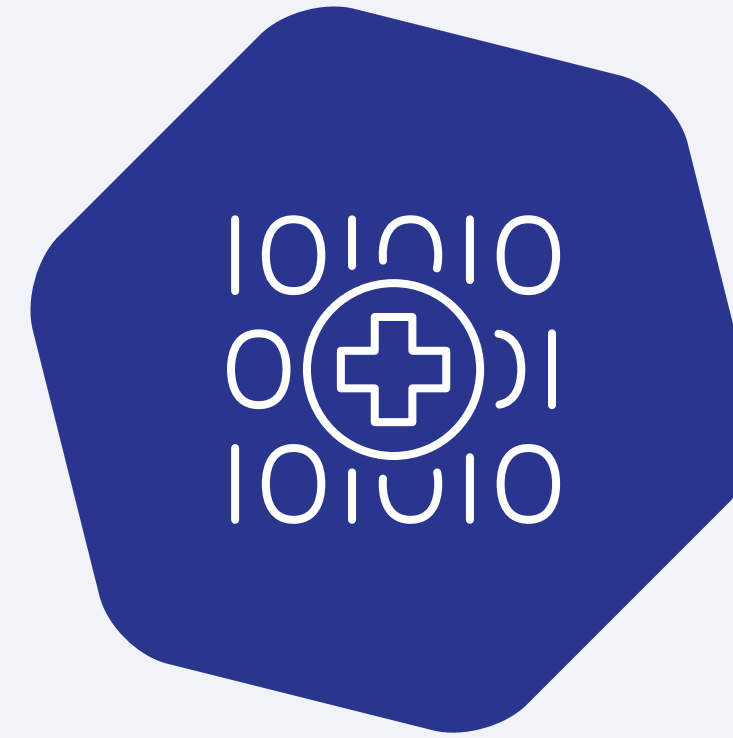
Transforming the Patient
Experience and the Healthcare
Landscape



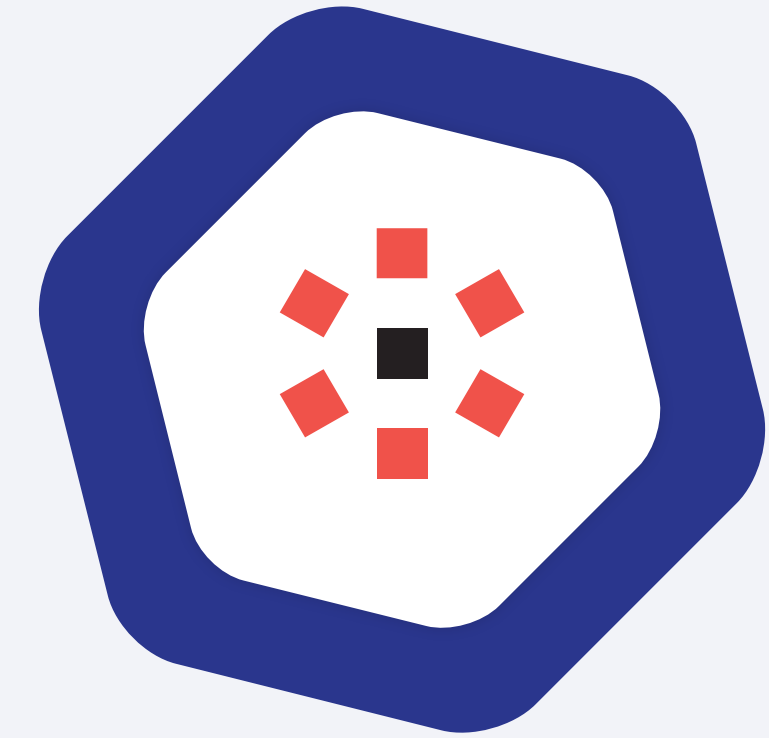
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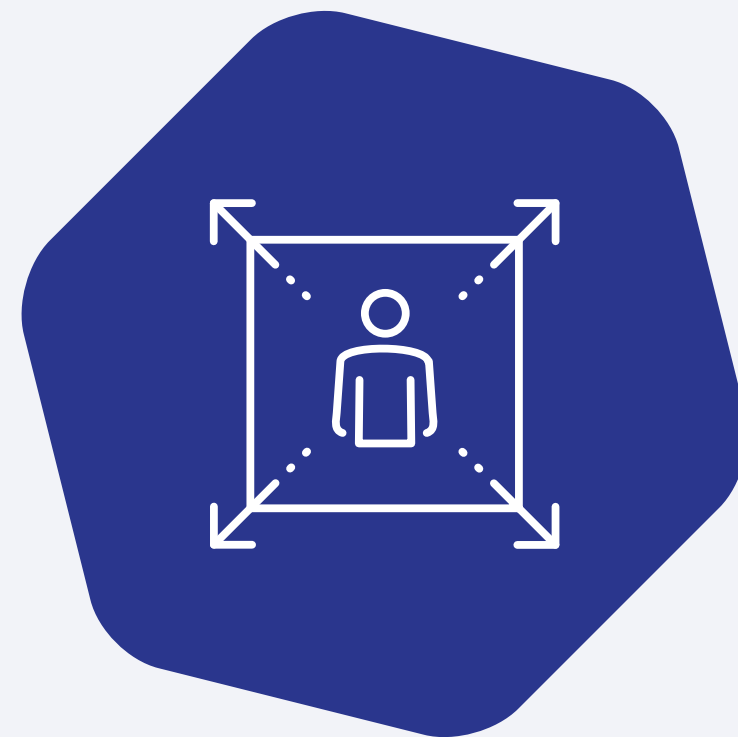
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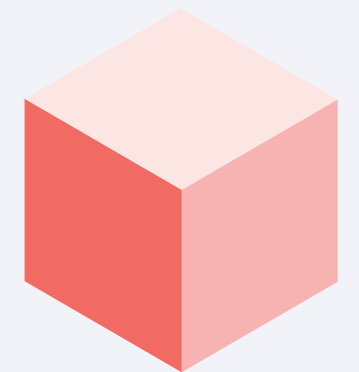
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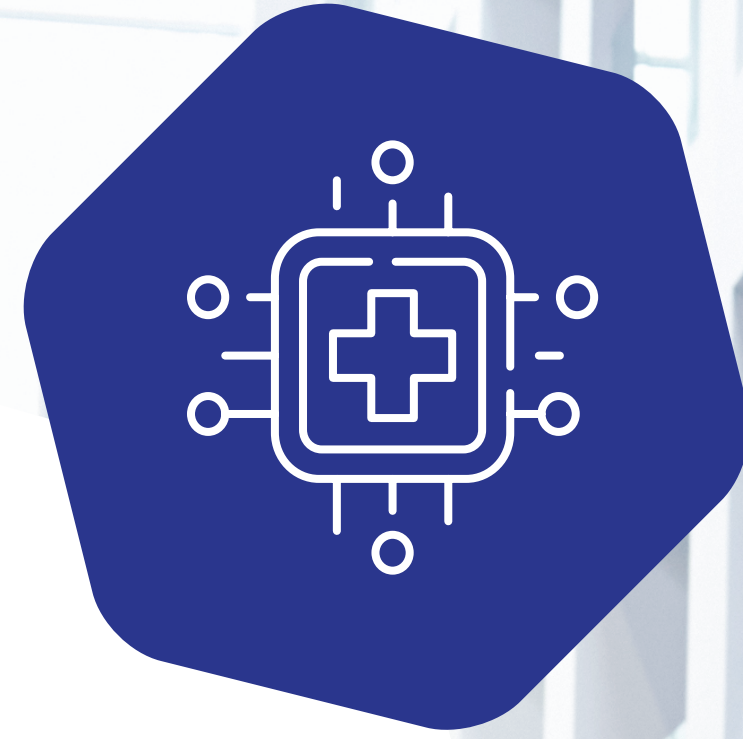


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CHAPTER 1

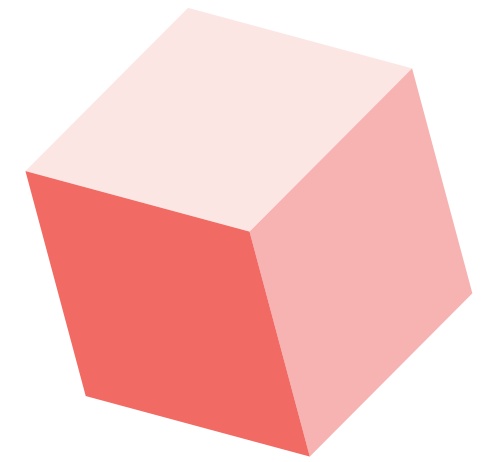
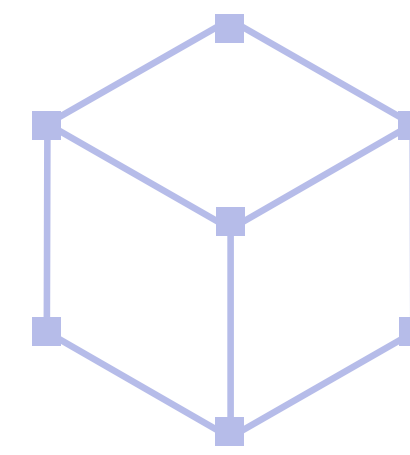
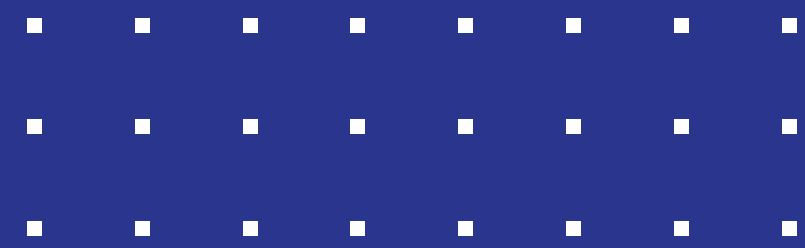
THE HEALTHCARE INDUSTRY

Healthcare organizations need to continue to collaborate with other providers in the industry to deliver innovative, modern, and effective services, but they must do so while also bringing costs under control, complying with increasingly stringent regulations, and mitigating risk.



Key Healthcare Industry Initiatives

Healthcare organizations launch myriad initiatives to remain competitive in this environment, including:



Total Experience Transformation

To streamline the experience of a patient through the healthcare system, including such innovations as personalized medicine, population health management, telehealth, and remote monitoring



Technology Innovation

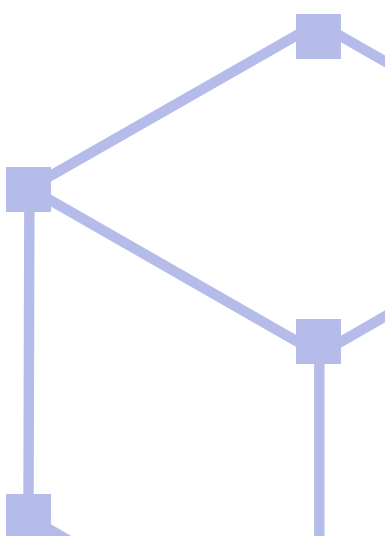
To enhance the infrastructure supporting the entire system, with technologies such as improved electronic health record (EHR) systems and patient-generated health data

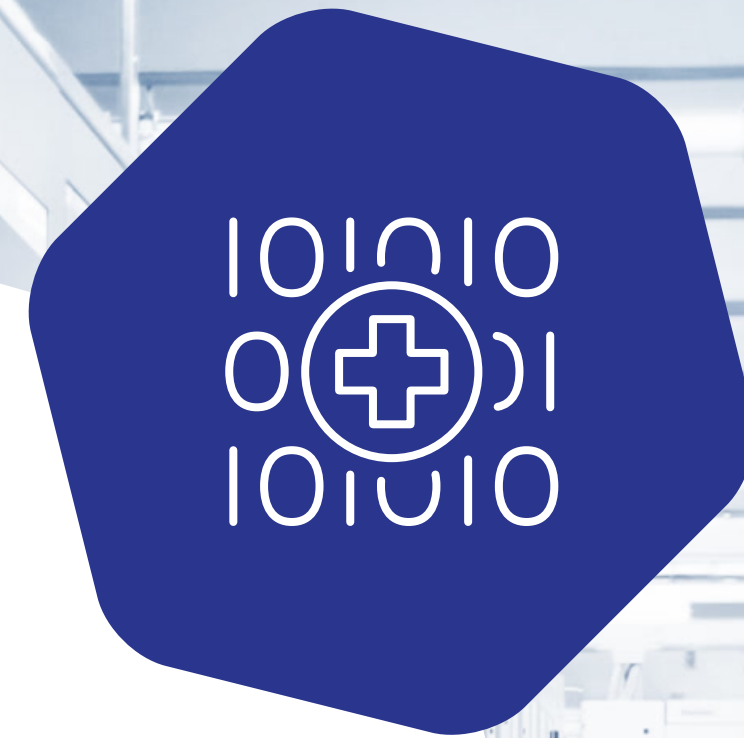


Regulatory Compliance and Risk Mitigation

To facilitate the combined effort of satisfying regulatory demands while avoiding the effects of damaging exposure

Each of these initiatives requires fast, easy access to trusted data. Unfortunately, despite modern advancements, this continues to be a challenge.

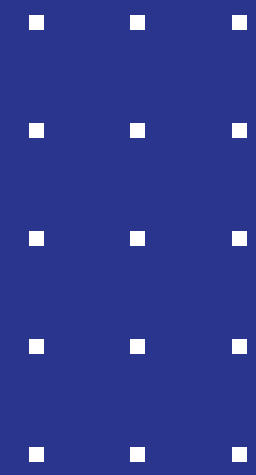




CHAPTER 2

THE DATA CONSUMPTION CHALLENGE

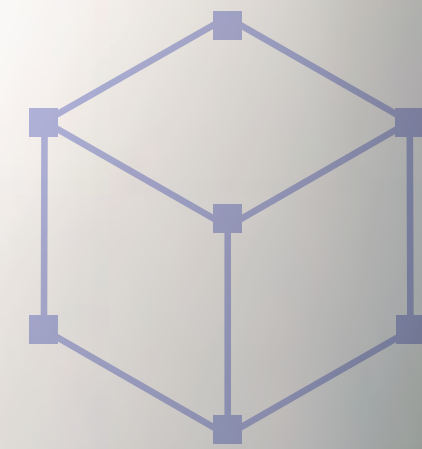
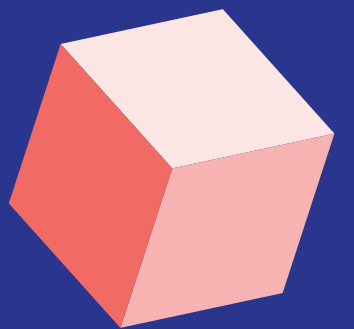
Many healthcare organizations are leveraging data lakes, cloud data warehouses, and other data platforms to store all of the necessary data from across the organization.



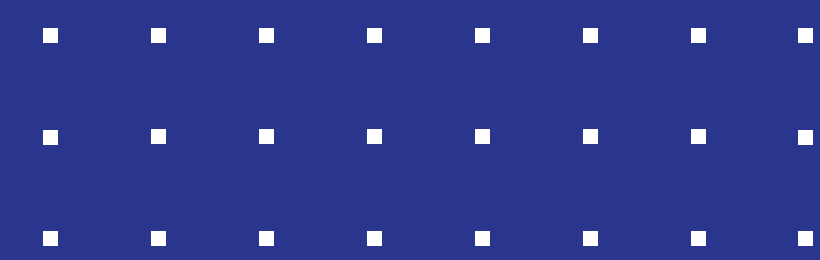
However, the challenge remains: getting the data out of these systems and ***into the hands*** of business users, when they need it, in a usable format, and in their own language.

Healthcare organizations need to either

- Provision the data for these different users, or
- Establish self-service data access



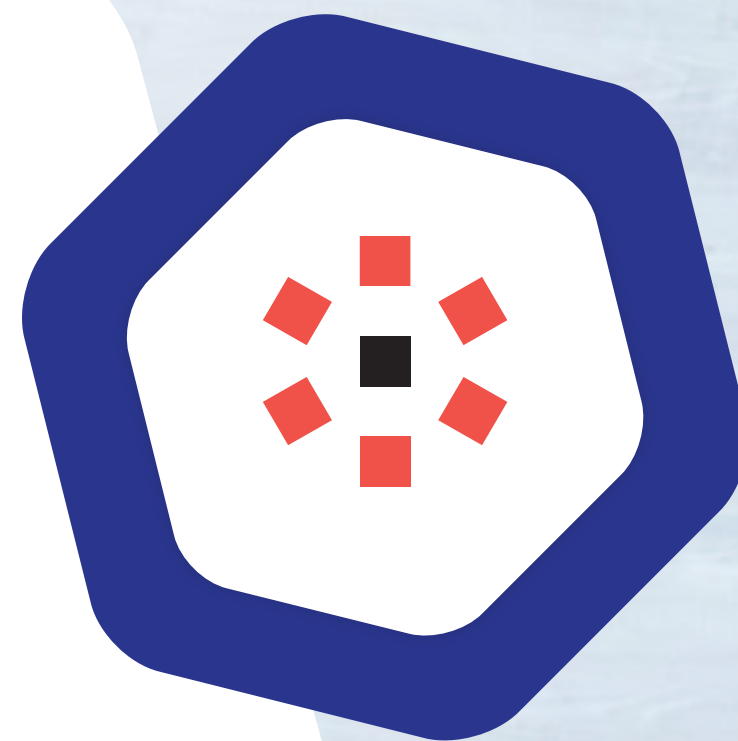
But implementing either or both of these capabilities is far easier said than done. Numerous individual reporting tools draw data from the central platform and deliver it to individual consumers, but healthcare organizations lack a single, overarching method for delivering all data to multiple users, intelligently prepared to meet their different needs.



CHAPTER 3

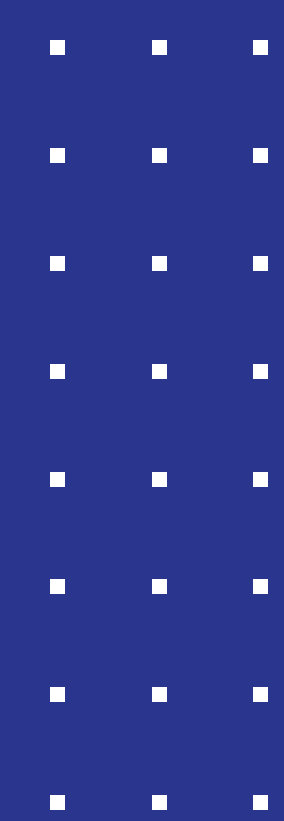
LOGICAL DATA MANAGEMENT AND THE DENODO PLATFORM

Logical data management solutions solve the data challenge. “Logical” means that it’s not tied to the restrictions of any one system or reporting tool.

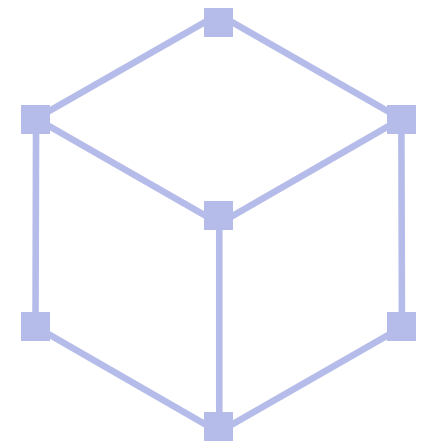


The Denodo Platform is the leading solution for logical data management. Regardless of how and where the data is stored, the Denodo Platform delivers data to business users at the speed of business, in the language of business.

It establishes an enterprise-wide logical layer that abstracts data consumers from the source data, enabling them to access and manipulate abstracted data views without affecting the underlying data.



BECAUSE THIS LAYER IS ENTERPRISE-WIDE, IT PROVIDES



Universal semantics, automatically transforming data into the language required by different user groups



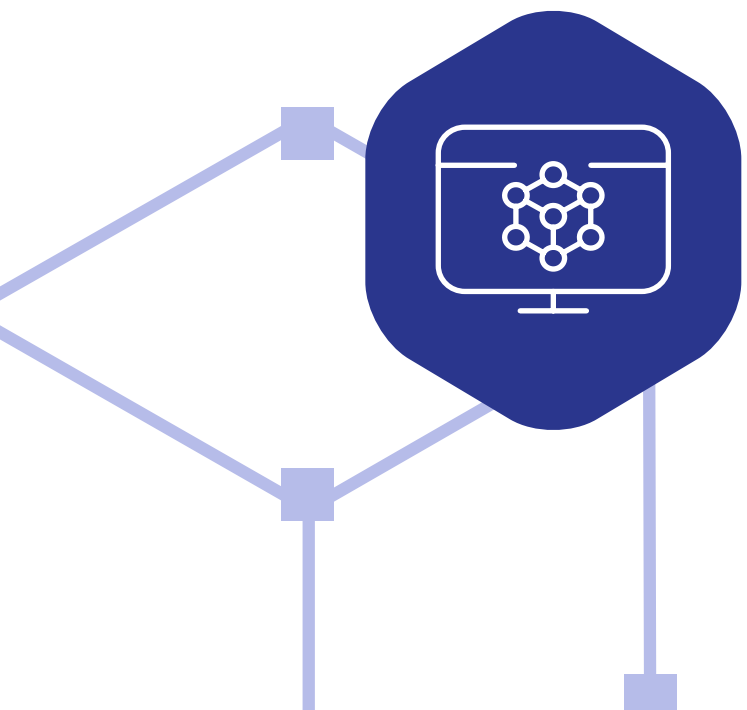
Data governance for “guard rails” and data security for protection, risk mitigation, and compliance



The ability to develop data products in an iterative, creative manner, to meet myriad use cases, without affecting the data that feeds them



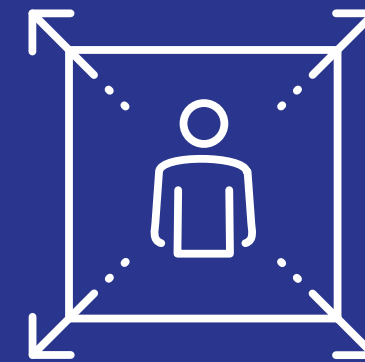
Full-featured data catalogs that list all data in a user-friendly, searchable interface and provide access right from the catalog



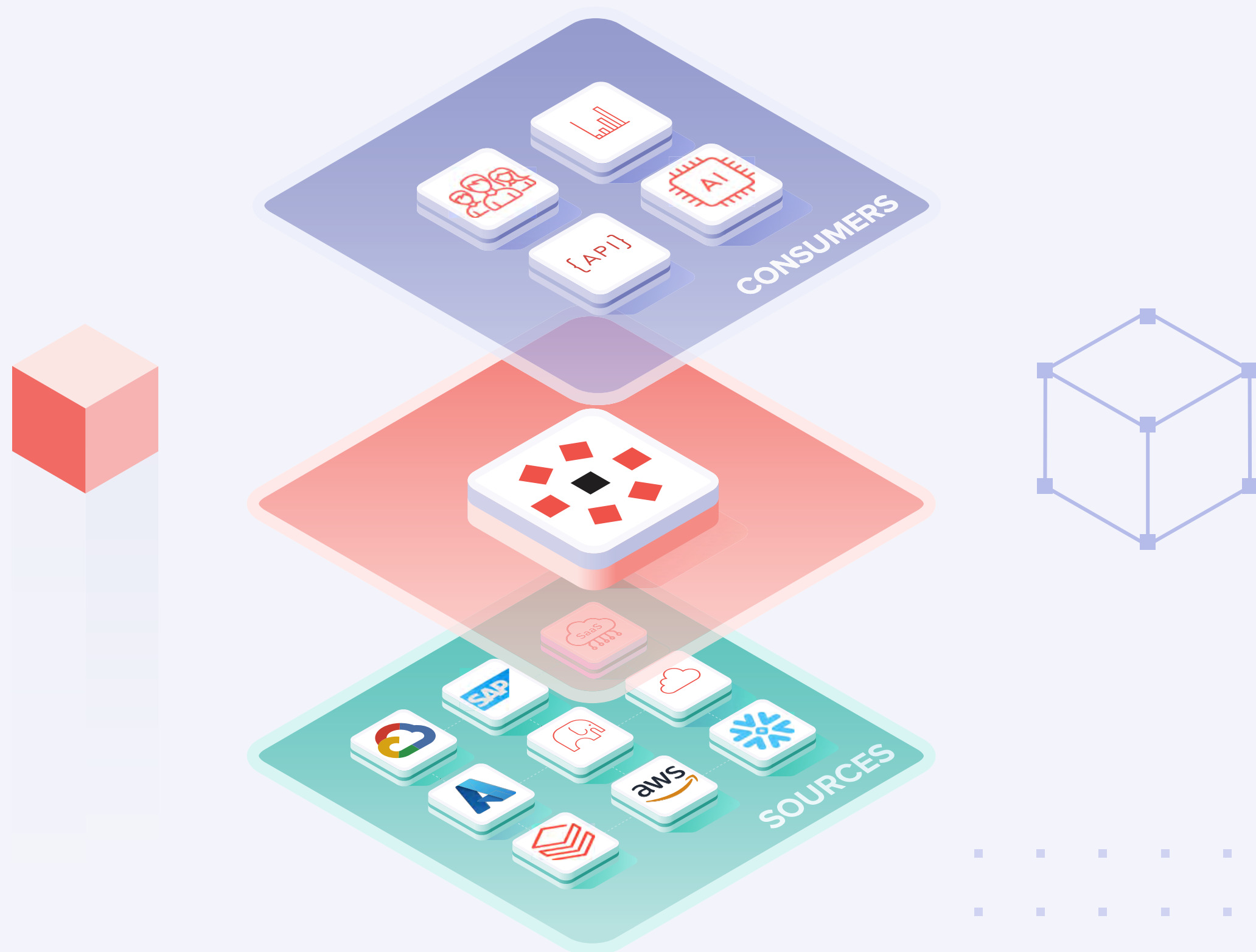
CHAPTER 4

TOTAL EXPERIENCE TRANSFORMATION

Patients speak with multiple parties on a single visit, from nurses, to specialists, to phlebotomists, to schedulers, and they may communicate over multiple channels such as phone, text, in-person, or over a dedicated portal. Ideally all parties would have the full, up-to-date information about where the patient is coming from, where they are going next, and when they are going home. However, this requires data to be quickly integrated and delivered over multiple channels, which is not easy.



The Denodo Platform facilitates the transformation of patients' total experience by first being able to access up-to-date views of patient information drawn from all applicable sources, and then delivering it over myriad channels in myriad ways, such as web services and APIs.



How One Large U.S. Health Plan Leveraged the Denodo Platform to Transform the Total Experience for Insureds

This major U.S. health insurance provider wanted to improve the insureds' total experience as they progressed through the process of submitting claims for new service, understanding the cost, and making decisions. But the relevant data was stored across a variety of different databases, NOSQL systems, and even flat files, so it could not be quickly leveraged, transformed, and delivered to the relevant representative(s) to affect the insured's experience.

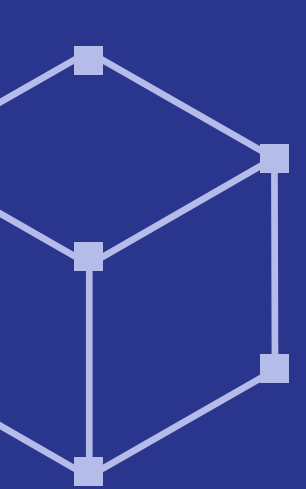
This provider leveraged the Denodo Platform to combine the data from the relevant systems into a single logical view, in real time, so it can be quickly delivered to multiple business users in dashboards and mobile web applications. With the Denodo Platform, all relevant representatives knew the full story of every individual passing through the system, dramatically improving the insureds' total experience.



CHAPTER 5

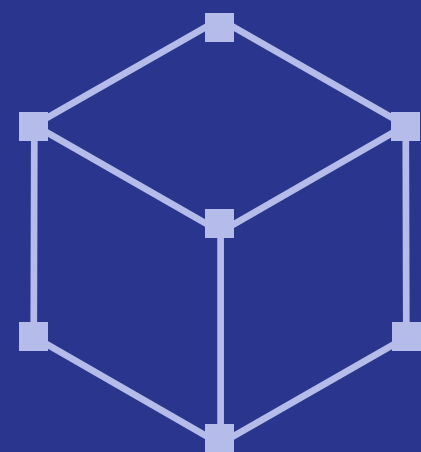
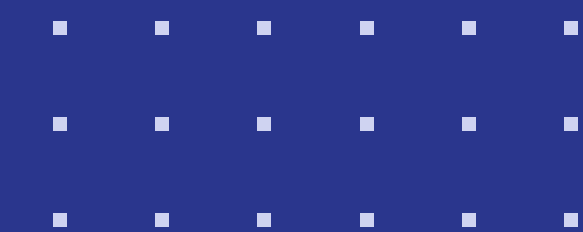
TECHNOLOGY INNOVATION

Healthcare organizations need to be able to continuously modernize their infrastructures to support new innovations as they emerge. However, many get locked into maintaining legacy systems that would be too complex, disruptive, and/or costly to replace.

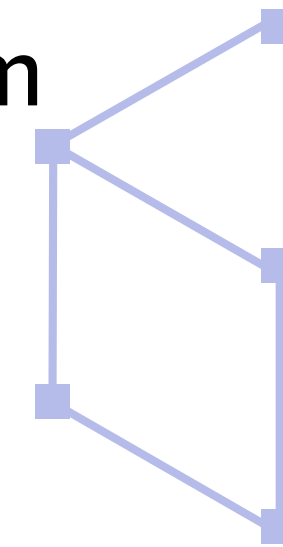


The Denodo Platform provides healthcare organizations with a future-proof data infrastructure, in the sense that it can support virtually any data type, including static and streaming, or structured, unstructured, or anywhere in between, and virtually any legacy system.

By establishing a unified data-access layer above legacy and new data sources, the Denodo Platform also enables organizations to access both legacy and new systems simultaneously, and to migrate at their own pace, without interrupting data consumers with downtime, and without them even noticing that a migration is taking place.

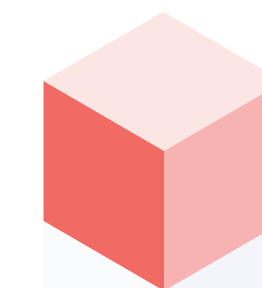


How Fresenius Leveraged the Denodo Platform to Unify Disparate Data Sources, Improving Service Quality



Fresenius Medical Care, based in Germany, is the world's leading provider of products and services for people with chronic kidney failure. Fresenius saw an opportunity to improve service quality by accelerating the speed with which data can be leveraged. Fresenius was managing a data infrastructure built around SAP, but the company also needed to combine data with a variety of non-SAP sources, and this took both time and effort.

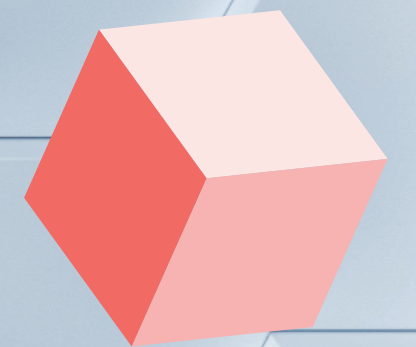
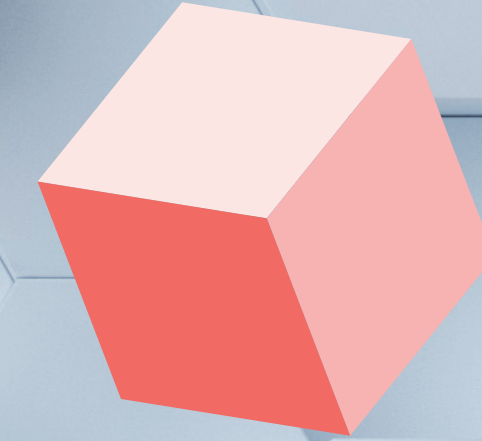
Fresenius implemented the Denodo Platform as an enterprise-wide logical layer above all of the SAP and non-SAP data sources, which simplified and accelerated the delivery of trusted, actionable data to business analysts. Analysts could immediately start leveraging the data from both sources simultaneously, without having to know where the data came from.

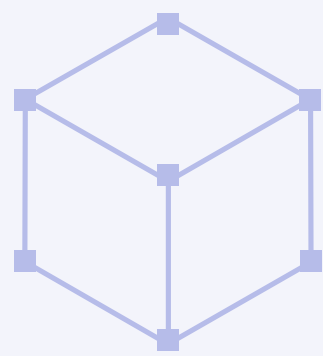


CHAPTER 6

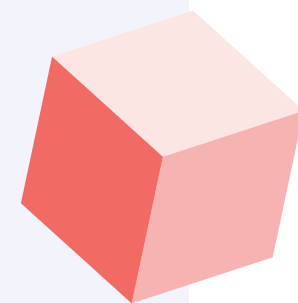
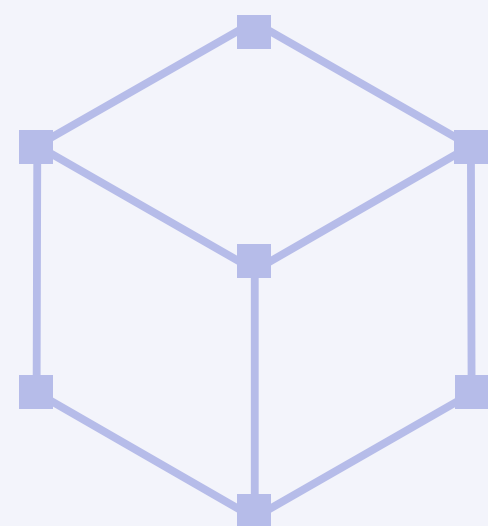
REGULATORY COMPLIANCE AND RISK MITIGATION

Regulatory compliance and risk mitigation are two sides of the same coin. The former, though it is centered on the risks of incurring fees, is ultimately also concerned with the mitigation of risk, such as what might follow the mismanagement of patient data, the subject of many regulations. Likewise, in mitigating risk, organizations are already facilitating compliance with numerous regulations. Both initiatives require the ability to quickly produce integrated reports that draw data from multiple different tools or systems.





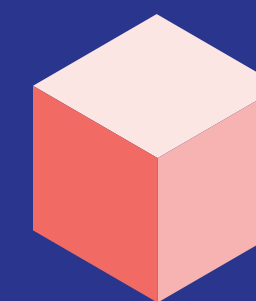
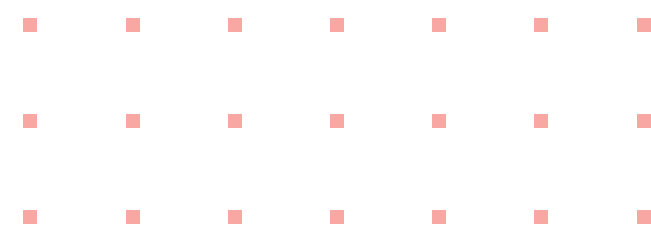
The Denodo Platform unifies and simplifies access to the required data within a central data repository or across multiple siloed systems and tools, in advance of regulatory deadlines, and it enables healthcare organizations to deliver this data in myriad ways, such as to reporting tools or real-time dashboards, to report on risks that have exceeded specified thresholds. The Denodo Platform also facilitates the development of compliance/risk management data products that draw on authoritative data sources to deliver exactly what is needed in its expected format.



How Allergan Leveraged the Denodo Platform to Streamline Regulatory Compliance and Mitigate the Risk of IP theft

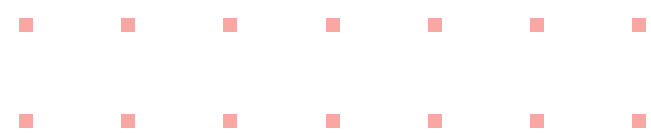
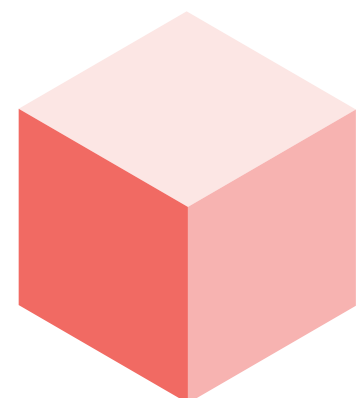
Allergan focuses on a diverse set of services, including eye care, neuroscience, medical dermatology, and medical aesthetics. Recently, a near-constant stream of mergers and acquisitions prevented the company from keeping an accurate, up-to-the-minute list of all current employees, to enable compliance with the Sarbanes–Oxley Act (SOX), so Allergan implemented the Denodo Platform.

The Denodo Platform enabled the real-time integration of myriad heterogeneous, distributed, structured, and semi-structured data sources across Allergan’s holdings, regardless of where they were in the M&A process. This enabled Allergan not only to keep better track of current employees for SOX compliance, but also to reduce the risk of intellectual property theft, since before the implementation of the Denodo Platform, some terminated employees still had access to proprietary company data.



Learn More about the Denodo Platform

In addition to the companies mentioned in this ebook, Denodo has empowered many other healthcare organizations to meet their diverse business goals, including Johnson&Johnson, Fastaff Travel Nursing, and National Services Scotland (NSS).



Denodo.
Data at
the speed
of business.

Visit denodo.com to access hundreds of other case studies and learn more about logical data management and the Denodo Platform.