

# How Data Fabric Elevates Student and Institutional Success

Today's higher-ed institutions have plenty of data stored in customer relationship management systems (CRMs), student information systems (SIS), learning management systems (LMS), housing, facilities, and other data systems. This data can bring new insights into attracting new students, elevating student success, creating financial efficiencies, improving revenue, and even expanding endowments. To unlock these insights, higher-ed institutions are discovering that data fabric, powered by Denodo technology, can help address five primary challenges:

- 1. Integrating Disparate Data Systems** – Create unified data views that break down data silos, ensuring that all student and institutional data is accessible in cohesive views, enhancing data agility and the productivity of all data consumers while also streamlining operational efficiency.
- 2. Providing Real-Time Data Access** – Eliminate the delays associated with traditional data integration methods. Immediate access to student and institutional data facilitates timely decision-making and improves responsiveness.
- 3. Unifying Data Access and Security** – Simplify data access and security rules and management, ensuring that all student and institutional data complies with proper standards and regulations, mitigating risks, and respecting student privacy.
- 4. Reducing Costs and Complexity** – Centralize data access and significantly reduce the costs and complexities of maintaining multiple databases and data integration processes. This streamlined approach enables organizations to allocate resources more effectively to focus on high-value initiatives.
- 5. Elevating Student and Institutional Success** – Leverage integrated data to incrementally stream value, and over time, enhance all aspects of student and institutional success.

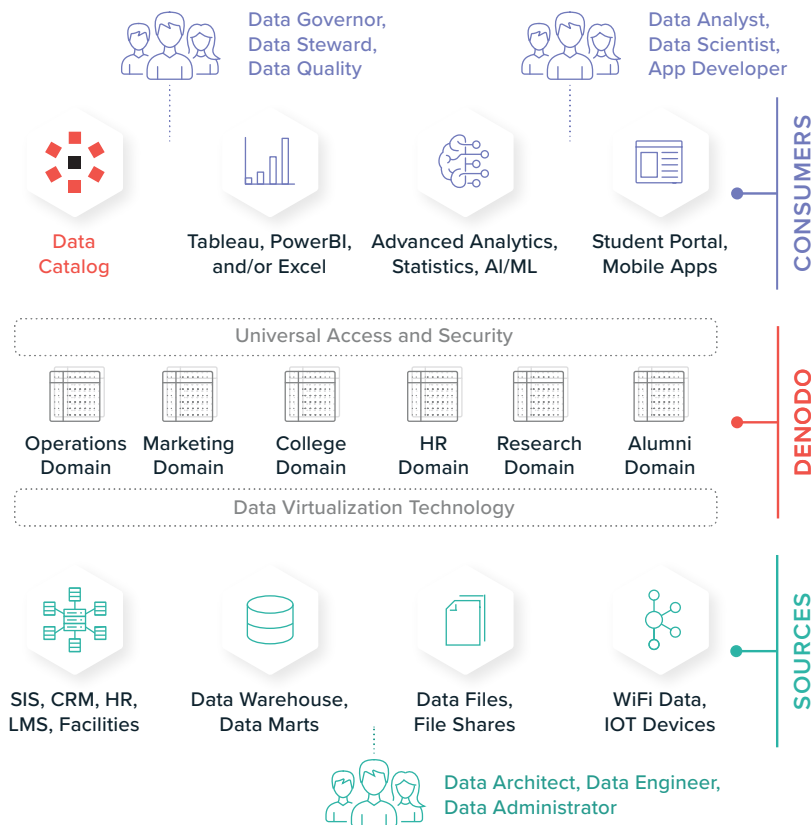
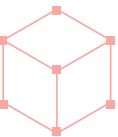


FIGURE 1

## What is a data fabric?

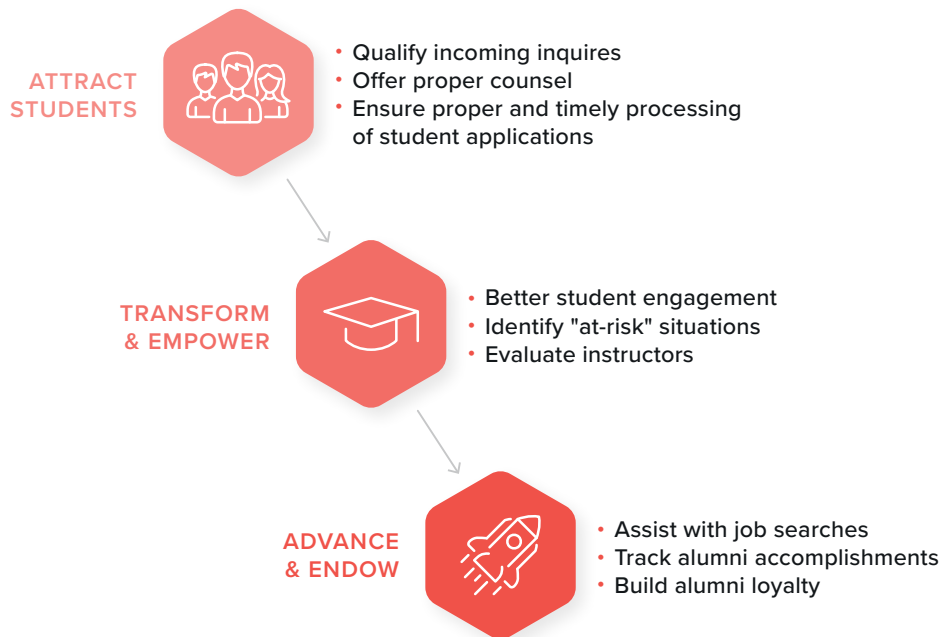
A data fabric is logical data management architecture that enables real-time connections to disparate data sources without physically moving data from where it lives.

As shown in **FIGURE 1**, data fabric acts as a unified data access and security layer between data consumers and data sources. A data catalog creates a “shopping cart” like experience for data consumers, in which they can discover new data views in the language of the business, request access, and connect with their tools of choice. This approach is quickly becoming a pivotal solution in higher-ed, harmonizing disparate student and institutional data into a unified, secure framework, enabling new levels of insight and efficiency.



Rather than displacing existing data investments, data fabric leverages those investments and delivers compounded value by “stitching” together data sets that the business could otherwise not access. And as highlighted in the bottom layer above, the key is to start with a single data subject, including a small group of business and data subject-matter experts (SMEs), and iteratively develop a set of data views that rapidly stream value to that business function. In the process, higher-ed institutions will learn how to repeatedly replicate that formula to meet new situations.

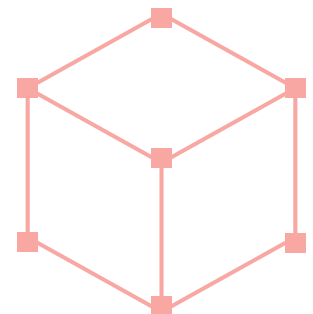
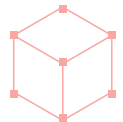
The use cases in **FIGURE 2** exemplify the Denodo Platform capabilities used in higher-ed institutions today, illustrating the platform’s versatility and impact.



**FIGURE 2**

These examples represent a fraction of the potential use cases for the Denodo Platform. It enables higher-ed institutions to tackle a wide variety of challenges, leveraging data to improve agility, productivity, efficiency, and financial performance. Integrating artificial intelligence (AI) and advanced analytics further amplifies the Denodo Platform’s impact, promising a future in which higher-ed is more integrated, efficient, and effective.

The **Denodo Platform** streamlines the entire student lifecycle for higher education institutions, from initial recruitment to alumni engagement, by integrating and analyzing data from diverse sources for informed, real-time decision-making. This advanced data management approach enhances operational efficiency and enables tailored student experiences and interventions, significantly improving student retention, success rates, and overall student and institutional performance.



Denodo is a leader in data management. The award-winning Denodo Platform is the leading logical data management platform for delivering data in the language of business, at the speed of business, for all data-related initiatives across the organization. Realizing more than 400% ROI and millions of dollars in benefits, Denodo’s customers across enterprises in 30+ industries all over the world have received payback in less than six months.