

Creating Data Exchange from Scratch

95% of school districts voluntarily connected

20+ Production-ready third-party integrations

30%+ Savings in the data management cost

Business Case

The State of Michigan sought to build a standards-based solution/technology framework to enable the integration and interoperability of educational data systems between schools.

As a state with approximately 3000 schools in 540 districts— with most schools having disparate technology and processes in place— it was imperative for Michigan to have superior information sharing and networking between schools to make better student learning decisions.

The state needed a new system in place that improved data quality and consistency, simplified data sharing, and enhanced data analysis to enable this. However, having a system like that takes time and effort and requires deep knowledge and expertise in data processing, technology, and education

What Were Some of The Client Challenges?

The quality of education in Michigan schools varies depending on the school districts; some schools are very advanced while others are struggling; however, one thing was/is common to most of them: the proliferation of disconnected data systems.



Disconnected data systems in educational institutes pose significant challenges that hinder efficient operations and decision-making. The lack of integration between various data sources, such as student records, enrollment information, academic progress, and administrative processes, leads to data supplication, inconsistencies, and errors. This fragmentation complicates tracking student performance and devising targeted interventions. Disconnected data systems also impede the automation of routine tasks, making administrative processes time-consuming.

Inaccurate or outdated data affects timely reports and impedes the ability to provide personalized learning experiences. Moreover, disconnected data systems limit the capacity to analyze trends and patterns, hindering strategic planning and policy formulation.

- ☑ The state of Michigan needed to address the proliferation of disconnected data systems and appointed an advisory committee to formulate recommendations.
- ☑ The advisory committee recommended leveraging a standards-based approach.
- ☑ Michigan turned to Straive for a mandate to plan and build a standards-based solution.

Straive Solution

Straive initiated/created the first Ed-Fi Data Exchange with the Michigan Data Hub (MiDataHub), which provides instructional support applications to Michigan districts – including Early Learning and K-12 educator dashboards, an Early Warning System, and Intervention Catalog. The Michigan DataHub became a model for other state implementations.

01

Our solution was sustainable for Michigan and included an advanced configuration module that automates operational tasks and reduces deployment effort.

02

Leveraging the Data Hub, we developed the Michigan Data Exchange to aggregate district-collected data into a single, state-level data store that powers MiRead, Michigan's new Early Literacy portal to support its "Read by Grade 3 (RBG3)" law, and other statewide applications.

03

The Michigan Data Hub continues to expand; in recent years, the Michigan Integrated Continuous Improvement Process (MICIP) was added to the Data Exchange.

Our Ed-Fi solution seamlessly blends AI, data, and analytics and brings an array of benefits to elevate the educational outcomes and decision-making abilities of MiDataHub. By harnessing the power of AI algorithms, it empowers stakeholders with predictive insights into learners' performance. Through the analysis of historical data, stakeholders can anticipate learning challenges and intervene to support struggling learners, effectively reducing dropout rates and enhancing overall academic achievements.



Improved Data Quality:

EdFi is a rigorous data standard, and our solution helped Michigan to compare data across schools and districts easily and to identify trends over time



Reduced Data Silos:

With our solution's help, Michigan broke down data silos. It became easier for Michigan and state schools to share data. This allowed for a more holistic view of learning and helped them to identify struggling learners.



Enhanced Decision Making:

Our solution provided them with data-driven insights that can be used to improve educational outcomes.



Increased Efficiency:

Michigan was able to automate tasks such as data integration and reporting.

Why Did The Client Choose Straive?

- 1. Our proven track record in Data, AI and Analytics, and allied services
- 2. Deep understanding of the educational landscape, thanks to our presence in the edtech and educational content business for over 40 years
- 3. Our reputation as a trusted and reliable partner.
- 4. Our cost-effective solution.

Impact on Michigan DataHub

Besides creating the first EdFi solution, Straive took a consultative approach talking and meeting with stakeholders to understand their needs for DataHub. Straive's transparent model, SMEs, and technological backing ensured that Michigan state was always informed and up to date. As a result of Straive's work, Michigan also realized several key benefits. Straive's EdFi solution was advanced yet easy to use and became a template for other states to emulate/implement a similar solution. Straive's EdFi solution significantly impacted the state's academic outcomes, which helped them improve attendance and grades, reduce dropout rates, and plan for the future.

About Straive

Straive is a market leading content technology partner that provides data services, subject matter expertise (SME) and technology solutions to multiple domains, such as research content, e-Learning / EdTech and data/information providers. With a client-base scoping 30 countries worldwide, Straive's multi-geographical resource pool is strategically located in eight countries - Philippines, India, USA, China, Nicaragua, Vietnam, United Kingdom, and the company headquarters in Singapore.



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