WE'RE TAKING INTEROPERABILITY STATE-WIDE

SETDA EDUCATION TECHNOLOGIES LEADERSHIP FORUM
JUNE 22, 2019
PROJECT UNICORN STATE COMMITMENT TO PRINCIPLES
SUPPORT YOUR STATE COMMITMENT
If you're interested in being a leader for interoperability in your state, support the principles of the State Commitment.

TALK TO OTHER STATE LEADERS
Ask other state leaders who have implemented interoperability in their state agency to show you how.

REACH OUT AND LEARN MORE
Reach out to the teams at CCSSO, SETDA, and Project Unicorn for resources and information on how you can take next steps.

CONSULT THE CASE STUDIES
Visit our website for two case studies with Michigan and Oklahoma to see how they got started. Check this page for new updates and resources.
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STATES LEADING INTEROPERABILITY:
INTEROPERABILITY WITH MIDATAHUB & KREADY
NO.INC AND JOHNS HOPKINS CTE
AGENDA

- MICHIGAN STATE DEPARTMENT OF EDUCATION SNAPSHOT
- MICHIGAN STATE DEPARTMENT OF EDUCATION: THE PROBLEM
- THE SOLUTION: MIDATAHUB
- MIDATAHUB AND THE KREADY SYSTEM
- COLLABORATION WITH NO.INC AND JOHNS HOPKINS CTE
- ACTIONABLE DATA
- BUILDING TO A DATA SYSTEM
- HIGHLIGHTS FROM THE KREADY SYSTEM
- DATA GRANULARITY AND DATA OBJECTS
MICHIGAN STATE DEPARTMENT OF EDUCATION
SNAPSHOT:

587 School Districts
300 Charter Schools
3,550 Schools
1,555,370 Students
MICHIGAN STATE DEPARTMENT OF EDUCATION

THE PROBLEM:

- SILOED DATA
- INCOMPLETE PICTURES
- LOCKED INSIGHTS
- DISORGANIZED DATA
THE SOLUTION?

MIDATAHUB:
THE SOLUTION?

MIDATA HUB:

FORMED IN 2015, MIDATA HUB WAS DESIGNED TO FIND A SYSTEM FOR CONSOLIDATING, SECURING, AND MAKING ALL STUDENT DATA AVAILABLE TO EDUCATORS AT ONCE.

ORGANIZATION
INSIGHT
ANALYSIS
ACCURACY
ACCESS
STUDENT SUCCESS
EARLY WARNING SYSTEM
THE SOLUTION?

MIDATAHUB:

The Michigan Data Hub is a product of the TRIG Data Integration Activity, and serves two purposes.

1. It serves as a conduit for the exchange of data between data systems (SIS, Special Education, Assessment, Alert, Data Warehouse, Learning Management System, Library, Food Service, Transportation, etc.) based on a standard data format provided by the Ed-Fi Alliance. As such, it works to make sure that the data in all systems is more complete, accurate and up-to-date.

1. It has an operational data store (ODS) database that houses current, up-to-date data merged from multiple systems in a common format. This allows for a number of solutions to be built upon the ODS including dashboards, reports, a single sign-on, and ultimately state reporting.
Because it houses data in an ODS, MiDataHub can seem to have similar traits to Student Information Systems, Data Warehouses and MiSchoolData. However, there are differences as well.

- Similar to a SIS, MiDataHub houses student data and can be reasonably up-to-date and transactional depending upon how data is fed to the ODS. MiDataHub only maintains data for fields that it needs to exchange with other systems.

- Similar to a Data Warehouse, MiDataHub can provide dashboards and reports with actionable information. Dashboards and reports from the data hubs tend to have more real-time time, current-year data rather than aggregated longitudinal data that would be provided by a data warehouse.

- Unlike other systems, solutions built on MiDataHub can be easily shared within the state and even between states that use the Ed-Fi Solution. Otherwise, solutions can only be shared by those using the same system and only when they use the products the same way with similar data standards.

- Unlike district-level SIS and Data Warehouse systems, MiDataHub can serve as the basis for a statewide single sign-on that all systems can leverage if desired.
BY MAXIMIZING GRANULARITY, WE CAN OPEN MORE DOORWAYS.

- DON DAILEY, MIDATAHUB
STANDARDIZED DATA IS
ACTIONABLE DATA -
MEANINGFUL DATA THAT
OUR CLIENTS CAN USE.

- MATTY WOODRUFF, NO.INC
ACTIONABLE DATA

MAINTAIN MEANING

IMPROVE OUTCOMES

OPTIMIZE HANDLING

REAL-TIME INFORMATION
THERE IS A MISCONCEPTION, THAT DESIGNING TO A STANDARD IS A BURDEN.

JULIUS MOORE, DIRECTOR OF TECHNOLOGY

NO. INC
BUILDING TO A DATA STANDARD

MIDATAHUB AND NO.INC SEND DATA THROUGH THE ED-FI ALLIANCE DATA STANDARD.

SECURITY  SPEED  INSIGHT  SEAMLESS
THE KREADY SYSTEM

- Comprehensive assessment system that supports both formative and summative assessments for early childhood students.

- Receives direct data imports from MiDataHub.

- Provides integrated professional development, is implemented across nine cross-platforms, and features decentralized data management to respect school district autonomy.

- Under its umbrella exist several contributing applications, which all directly interact with the primary web application.
THE KREADY SYSTEM

Username:
Password:

Remember me
Login

Forgot password?
Technical support is available, please click here

Download our mobile and desktop apps

KRA App
Web
ELA App
Desktop App for PC
KReady File Watcher
For PC Linux - Debian Linux - RPM Linux - ZIP

REAL TIME TRANSFERS

USER ACCESSIBLE TOOL FROM ANY ED-FI ENABLED SOURCE
WHAT'S NEXT?

- New SSO (Single Sign On) Feature
- Integrate with the KReady System to provide OAuth
- Convert data of varying custom formats using pre-defined interoperability standard connectors
MIDATAHUB & KREADY

HIGHLIGHTS AND FEATURES:

INCREASED EFFICIENCY
REAL-TIME DATA
ACTIONABLE DATA

AUTOMATIC & SCALABLE
SAVED MONEY & TIME
SECURE DATA MANAGEMENT
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ROUND TABLE DISCUSSIONS
YOUR SUCCESS STORIES
Think about a successful project that you've worked on that required using data from multiple sources.

1. What was the project?
2. What different systems/data sources did you need to use for the project?
3. What value did the project provide to the organization?
4. How much time/effort did it take to retrieve all of the data for the project?
YOUR DATA DEFEATS
Think about a time when a project was not successful or think about the previous project.

1. What value was not delivered because the data were not accessible?
2. How does the lack of access to those data impact the work of your team?
3. How would more seamless access to the data affect the work of your
THINK ABOUT THESE PITFALLS
from '5 Pitfalls to Scale in Edu'
https://medium.com/@culatta/5-pitfalls-to-scale-in-education-e24288799c0

1. Ignoring context
2. Boiling the ocean
3. Over focus on tech
4. Under Focus on tech
5. Ownership and buy-in
SO... HOW DID YOUR PROJECT SOLVE FOR OR CONTRIBUTE TO THOSE PITFALLS?
WHAT WAS THE CLASSROOM AND LEARNER/LEARNING IMPACT?
DID IT ENGAGE PROGRAMS OUTSIDE OF IT/DATA? HOW?
HOW WAS DATA PRIVACY AND EFFECTIVE USE OF DATA ACCOMPLISHED (OR NOT)?
WAS IT SUSTAINABLE? HOW, OR WHY NOT? WHERE DOES IT GO NEXT?
QUESTIONS TO CONSIDER:

1. What continues to be the greatest challenge for interoperability/integration efforts moving forward?

2. If an organization could only do a single thing to improve data interoperability and integration, what would you suggest and why?
THANK YOU