Show me the Data!
How To Give Your District Members The Data They've Been Asking For.

October 2022
What are your current student data challenges?
data interoperability
— NOUN [/da-tuhˌɪn(t)ərˌäpəˈbilədə/] 

The seamless, secure, and controlled exchange of data between applications.
Leveraging data interoperability will …

Give you a complete view of each student

Allow data to move between systems securely and seamlessly—while protecting data privacy

Empower you to control your data, not a third party. You're not just subject to the baseline offerings vendors offer

Let you choose the best instructional tools available
When your schools achieve data interoperability, you can solve other challenges more effectively.
Data Can Solve Big Challenges in Your Districts

**Ensure Equitable Access for Students**
Understand, analyze and take supportive actions with data to uncover gaps in students’ access and participation in your school's educational offerings.

**Engage Online Learners**
Help instructional staff keep classroom learners engaged in their coursework.

**Address Chronic Absenteeism**
Help students sooner with up-to-date and accurate attendance data.

**Strengthen Family Engagement**
Connect family to the information and insights they need about their students.

**Harness Multiple Measures of Assessment**
Help school staff identify if students are improving over time through multiple assessment measures.
Texas Education Exchange
The Problem
Educators work within fragmented systems, limiting their ability to support instruction

**EdTech Ecosystem**

- Assessment Platforms
- Additional Vendor Applications
- Engagement Platforms
- Learning Management Platforms
- SIS
- Agency-Developed Applications

**Educator Impact**

- Teachers and district staff are **required to enter, compile, and manipulate data manually**. This takes precious time from student instruction and could expose personal information.
- Manual entry and a lack of free movement of data **cause inaccuracies and duplicate records**.
- There is no centralized location for data.
Teachers and district staff are **required to find ways to connect with each student at home**. Teachers enable more technology options to create e-learning. This takes precious time from teachers and students to adjust to the learning curve.

Districts are forced to find ways to get **each student a laptop or tablet to connect at home**, or find the best ways to get those without means internet access. This creates a **costly problem for districts and leaders**.

More options made **further divisions for data connectivity**.
The Solution
The Texas Education Agency is modernizing data connections through its Texas Student Data System.

Student Information Systems

- ASCENDER
- SKYWARD
- frontline education
- PowerSchool

Educator Impact

Education data are included in a **single location** and **automatically transferred** to TEA, limiting time spent on reporting.
The Exchange is developing a solution to facilitate interoperability across EdTech applications

Texas Education Exchange Collaborative

Region 4 (Lead)  Region 10  Region 11  Region 13  Region 20

Funders and Partners

Michael & Susan Dell Foundation  Texas Education Agency  ed-fi Alliance  Bill & Melinda Gates Foundation
The Exchange leverages Ed-Fi and TSDS modernizations to improve data interoperability

EdFi Compatible Application Community

- SIS
- Assessment Platforms
- Agency-Developed Applications
- Engagement Platforms
- Learning Management Platforms
- Additional Vendor Applications

Texas Student Data System (TSDS) Infrastructure

- Ed-Fi ODS District #1
- Ed-Fi ODS District #2
- Ed-Fi ODS District #3
- Ed-Fi ODS District n...
The Exchange cultivates, integrates, and governs applications across vendors

The Texas Education Exchange

- District Implementation Support
- Application Marketplace (For optional district use)
- Vendor Integration
- Exchange Developed Applications (TBD)
The Exchange will help districts better use and make meaning of education data.

- Removes need for manual data entry through secure movement of data across all education data systems.
- Limits data entry errors through free movement of data.
- Allows for timely access to data.
- Creates a single location for data.

EdFi Compatible Application Community

- SIS
- Agency-Developed Applications
- Learning Management Platforms
- Additional Vendor Applications

Texas Student Data System (TSDS) Infrastructure

District Ed-Fi ODS

The Texas Education Exchange
The Exchange allows interoperability among data systems, giving time back to educators

- Allows for **timely access to relevant data**.

- Provides educators a **snapshot of how students are performing** and what their needs may be in the classroom.

- With relevant data flowing between systems and timely information, educators can add time back to their day to **focus on student outcomes**.
Build applications that connect to the districts EdFi ODS and sell to the entire state

Enhance existing agency products by enabling easier use of their data

Provide wraparound services to districts, helping them use connected applications
Example App: CCMR Insights
Forward-looking tool to

- Improve school accountability
- Maximize Texas’ CCMR Outcomes Bonus funding
- Provide real time data to affect current year students
- Use SIS data via Ed-Fi to increase data accuracy
### Sample of Potential Funding Gains

<table>
<thead>
<tr>
<th>Distri</th>
<th>Pilot</th>
<th>District Name</th>
<th>Enrollment 2020 TEA TAPR Report</th>
<th>% EcoDis 2020 TEA TAPR Report</th>
<th>FY 2021 CCMR Outcomes Bonus 2020-2021 TEA Summary of Finances</th>
<th>Max Scenario: Assuming 100% Graduation and 100% College Readiness for Current 8th</th>
</tr>
</thead>
<tbody>
<tr>
<td>'116903</td>
<td>Y</td>
<td>COMMERCE ISD</td>
<td>1,520</td>
<td>69%</td>
<td>$9,000</td>
<td>$468,000</td>
</tr>
<tr>
<td>'129901</td>
<td>Y</td>
<td>CRANDALL ISD</td>
<td>4,573</td>
<td>53%</td>
<td>$97,000</td>
<td>$1,373,000</td>
</tr>
<tr>
<td>'057907</td>
<td>Y</td>
<td>DUNCANVILLE ISD</td>
<td>12,416</td>
<td>80%</td>
<td>$182,000</td>
<td>$4,501,000</td>
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<tr>
<td>'043914</td>
<td>Y</td>
<td>WYLIE ISD</td>
<td>17,162</td>
<td>28%</td>
<td>$850,000</td>
<td>$4,299,000</td>
</tr>
<tr>
<td>'070905</td>
<td>Y</td>
<td>FERRIS ISD</td>
<td>2,675</td>
<td>81%</td>
<td>$19,000</td>
<td>$766,000</td>
</tr>
<tr>
<td>'057909</td>
<td>Y</td>
<td>GARLAND ISD</td>
<td>55,584</td>
<td>66%</td>
<td>$3,094,000</td>
<td>$16,474,000</td>
</tr>
<tr>
<td>'057910</td>
<td>Y</td>
<td>GRAND PRAIRIE ISD</td>
<td>29,196</td>
<td>76%</td>
<td>$912,000</td>
<td>$8,831,000</td>
</tr>
<tr>
<td>'057914</td>
<td>Y</td>
<td>MESQUITE ISD</td>
<td>39,775</td>
<td>78%</td>
<td>$1,058,000</td>
<td>$14,022,000</td>
</tr>
<tr>
<td>'057916</td>
<td>Y</td>
<td>RICHARDSON ISD</td>
<td>39,524</td>
<td>57%</td>
<td>$2,297,000</td>
<td>$11,051,000</td>
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<tr>
<td>'072903</td>
<td>Y</td>
<td>STEPHENVILLE ISD</td>
<td>3,834</td>
<td>50%</td>
<td>$219,000</td>
<td>$1,150,000</td>
</tr>
<tr>
<td>'070912</td>
<td>Y</td>
<td>WAXAHACHIE ISD</td>
<td>9,468</td>
<td>46%</td>
<td>$609,000</td>
<td>$2,687,000</td>
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</table>
Takeaway: Return On Investment ("ROI")

If you can move your District’s % by 1 or 2 points, it pays for the following:

- CCMR Insights Dashboard
- A person to run CCMR
- Extra money for your District “forever”
Exploring CCMR Insights Tool

Let’s walk through it...

Demo link: https://region10-ccmrdemo.region10.org/2020
Showing seniors of 2020 who are near miss in ACT English and ACT Composite

<table>
<thead>
<tr>
<th>Student's Name</th>
<th>TSDS ID</th>
<th>Local Student ID</th>
<th>Counselor</th>
<th>School</th>
<th>Student Level</th>
<th>A-F Points</th>
<th>TSI Met HB3</th>
<th>Math/Composite</th>
<th>English/Composite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verena Chalet</td>
<td>110162</td>
<td>9162</td>
<td></td>
<td>Monarch High School</td>
<td>Senior</td>
<td>0</td>
<td>Not Met</td>
<td>19 (19)</td>
<td>18 (19)</td>
</tr>
<tr>
<td>Cassy Watpaz</td>
<td>110169</td>
<td>9169</td>
<td></td>
<td>Monarch High School</td>
<td>Senior</td>
<td>0</td>
<td>Not Met</td>
<td>19 (19)</td>
<td>18 (19)</td>
</tr>
<tr>
<td>Lorita Bulloch</td>
<td>110198</td>
<td>9190</td>
<td></td>
<td>Monarch High School</td>
<td>Senior</td>
<td>0</td>
<td>Not Met</td>
<td>21 (20)</td>
<td>18 (20)</td>
</tr>
<tr>
<td>Houston Buhler</td>
<td>110137</td>
<td>9137</td>
<td></td>
<td>Monarch High School</td>
<td>Senior</td>
<td>0</td>
<td>Not Met</td>
<td>19 (20)</td>
<td>20 (20)</td>
</tr>
<tr>
<td>Raven Melly</td>
<td>110197</td>
<td>9197</td>
<td></td>
<td>Monarch High School</td>
<td>Senior</td>
<td>0</td>
<td>Not Met</td>
<td>24 (22)</td>
<td>20 (22)</td>
</tr>
<tr>
<td>Brittaney Valez</td>
<td>110170</td>
<td>9170</td>
<td></td>
<td>Monarch High School</td>
<td>Senior</td>
<td>0</td>
<td>Not Met</td>
<td>18 (20)</td>
<td>21 (20)</td>
</tr>
</tbody>
</table>
New features

- Student Profile view
But what will become of Excel?

Typically LEAs use Microsoft Excel for this, but do you want your CCMR people to be programmers...

.. Or helping students?
Help students faster with CCMR Insights

Learn more

bit.ly/CCMR-Insights
### Comments from Pilot LEAs:

**How is CCMR Insights improving your staff’s ability to help students be CCMR ready?**

<table>
<thead>
<tr>
<th>ISD</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesquite ISD</td>
<td>Staff is able to see exactly where students are on their journey and where they might be missing in other areas.</td>
</tr>
<tr>
<td>Grand Prairie ISD</td>
<td>It provides the insight to know where our students are being successful and not and allowing us to see the gaps our students are experiencing to fill.</td>
</tr>
<tr>
<td>Richardson ISD</td>
<td>Having the data available in one place makes it much easier for our staff to track student’s progress.</td>
</tr>
<tr>
<td>Waxahachie ISD</td>
<td>Easy access so data can be pulled quickly to help support making sure all our students have met CCMR criteria.</td>
</tr>
<tr>
<td>Commerce ISD</td>
<td>I am able to see individual progress and what checkmarks they have accomplished.</td>
</tr>
<tr>
<td>Crowley ISD</td>
<td>It is easy access and at-a-glance</td>
</tr>
<tr>
<td>Weatherford ISD</td>
<td>We have rolled out the dashboard and trained our counselors how to look at students within their alpha. Counselors are able to meet with students who have no points and counsel them appropriately.</td>
</tr>
</tbody>
</table>
What you get

*Not just the software!*

- Friendly Region 10 ESC support! 😊
- Model rollout plans & training materials for your staff based on pilot experience
- Expert technical support for SIS data mapping & assessment upload
- Experience for next gen PEIMS (23-24)
Compatible Student Information Systems

Districts that use the following student information systems (SIS) can implement more quickly:

With TEA/Exchange Next-Gen ODS3.x all systems will be compatible by 24-25
High-Level Architecture - Today

Ed-Fi® Data Collaboration

SIS Data
Schools
Students
Enrollment
Transcripts
Indicators

Operational
Data
Store
Up to 5 years
of history

CCMR
Calculation
Engine
Region 10
Hosting

Assessments & Other Data

CCMR / HB3
Dashboards
The Future: Statewide Data Infrastructure

- HQIM Platforms
  - App Store
  - Developer Tools
  - Access Management
  - Consulting and Technical Support
  - Centralized, Integrated Data
  - Assessments
  - Integrated Analytics
  - Student Information Systems
  - Learning Management Systems
  - CARNEGIE LEARNING
  - Learning Apps
  - Assessments
  - Integrated Analytics

- teds
- Access Management
- Insights
- Apps
- Developer Tools
- Consulting and Technical Support
Next Steps To Data Interoperability

1. Decide that data interoperability is important for your educators and students. Start with a specific problem you are trying to solve. Get a buddy.
2. Connect with us Ed-Fi at www.ed-fi.org and create an account.
3. Start with the Ed-Fi Academy 101 course
4. Determine your implementation path – DIY, do it in a group (collaborative), or do it with a technical partner
5. Log into Ed-Fi Tech Docs and explore the resources
6. Check out the Starter Kits and go thru the step-by-step instructions.
7. Connect with us on Slack
8. Join us at the Ed-Fi Summit & AESA Conference
9. Schedule time with me to discuss your support needs! Lyria.Zeh@dell.org
Next Steps To Data Interoperability

Join us at AESA Annual Conference in Atlanta!
Friday, December 2 at 8:00am ET
SAVE the DATE

Summit 2022

WHEN:
November 6th - 9th, 2022

WHERE:
Hyatt Regency Austin
Austin, Texas