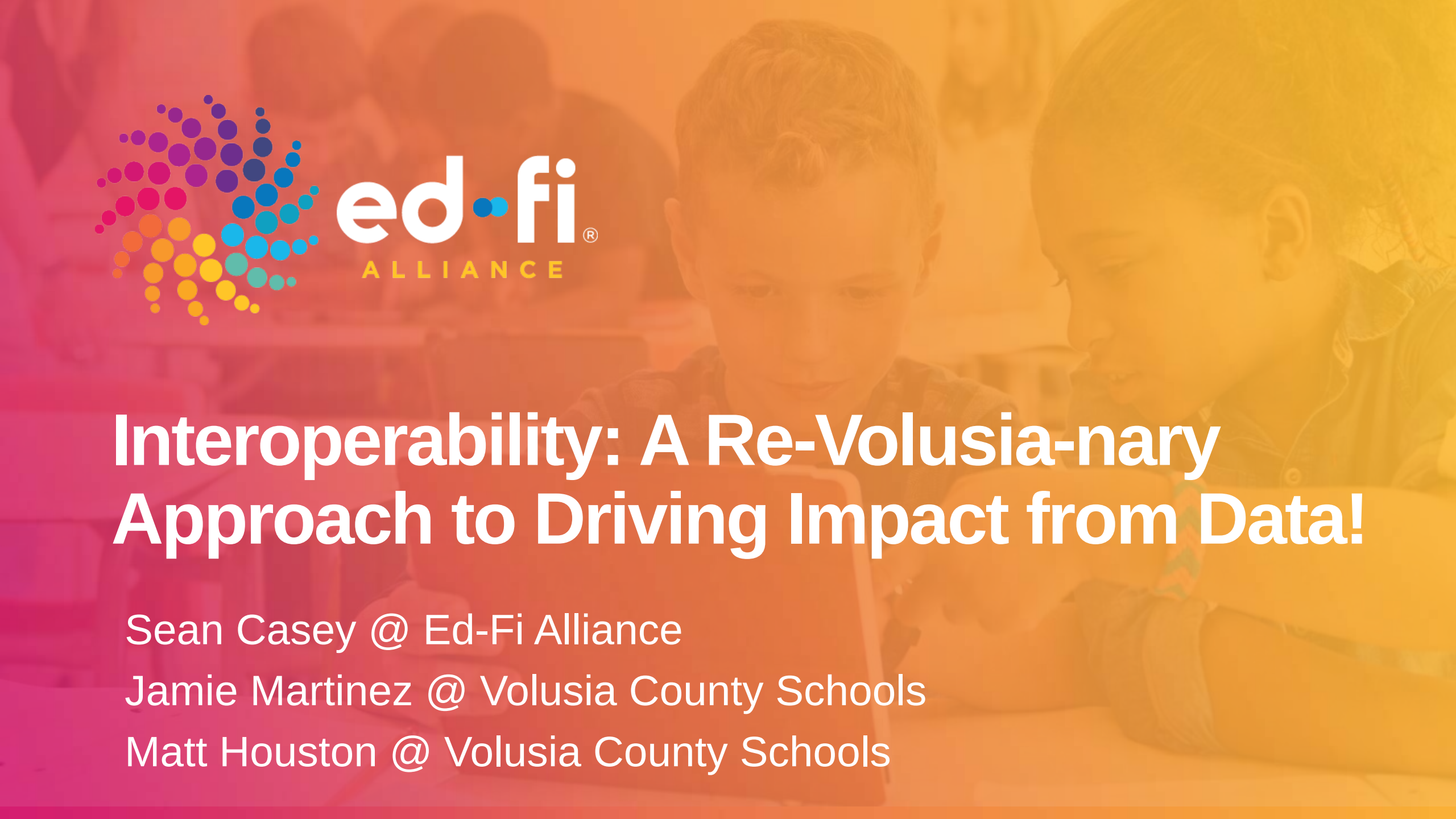

Interoperability: A Re-Volusia-nary Approach to Driving Impact from Data!

Sean Casey @ Ed-Fi Alliance
Jamie Martinez @ Volusia County Schools
Matt Houston @ Volusia County Schools

Welcome! What we'll discuss today…

- Interoperability fosters a healthy tech ecosystem & learning environment
- Connected systems allow data to flow out of all systems, platforms, and applications your district uses
- Access to data in a single, secure platform gives teachers a complete view of student progress
- Combining ed-tech solutions drives evidence-backed learning decisions and student success
- Get Back to Why -why this is a priority for Volusia County Schools

But First, Let's Talk Reality.

Who are you (to your learners)?

- Teachers and those who directly serve specific learners every day
- Campus roles who support entire campuses of learners
- Administrators, over campuses or programs & districts
- Technologists
- Vendors and providers

Challenges serving them?

- What's the hard work in truly personalizing learning?
- How well do you know your learners? How long does it take to really know them?
- How do you know where & how to personalize instruction/paths?
- What kind of insights help you do your job and reach your learners as soon as they need it?

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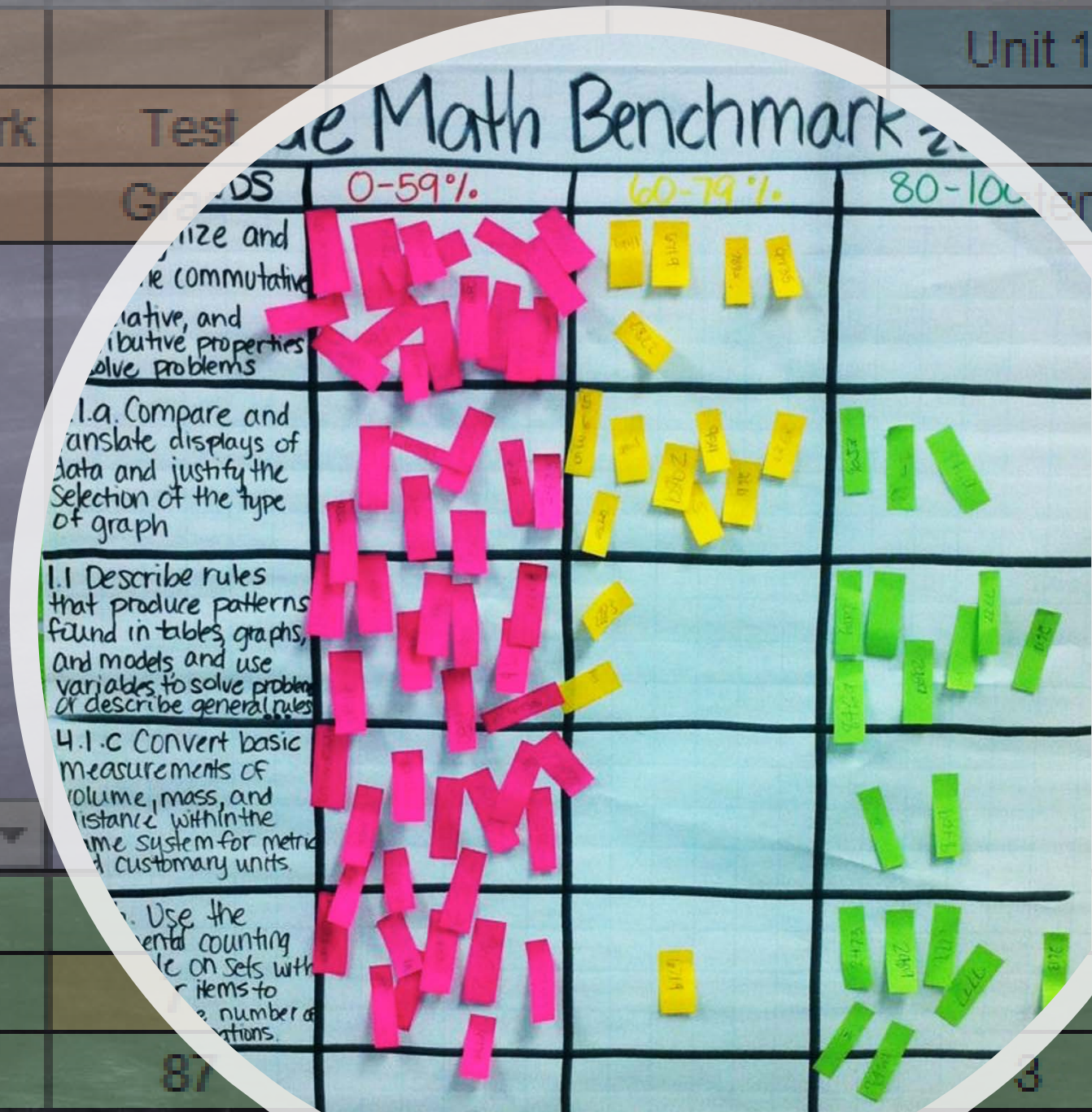
Realities of Data Use in the Classroom



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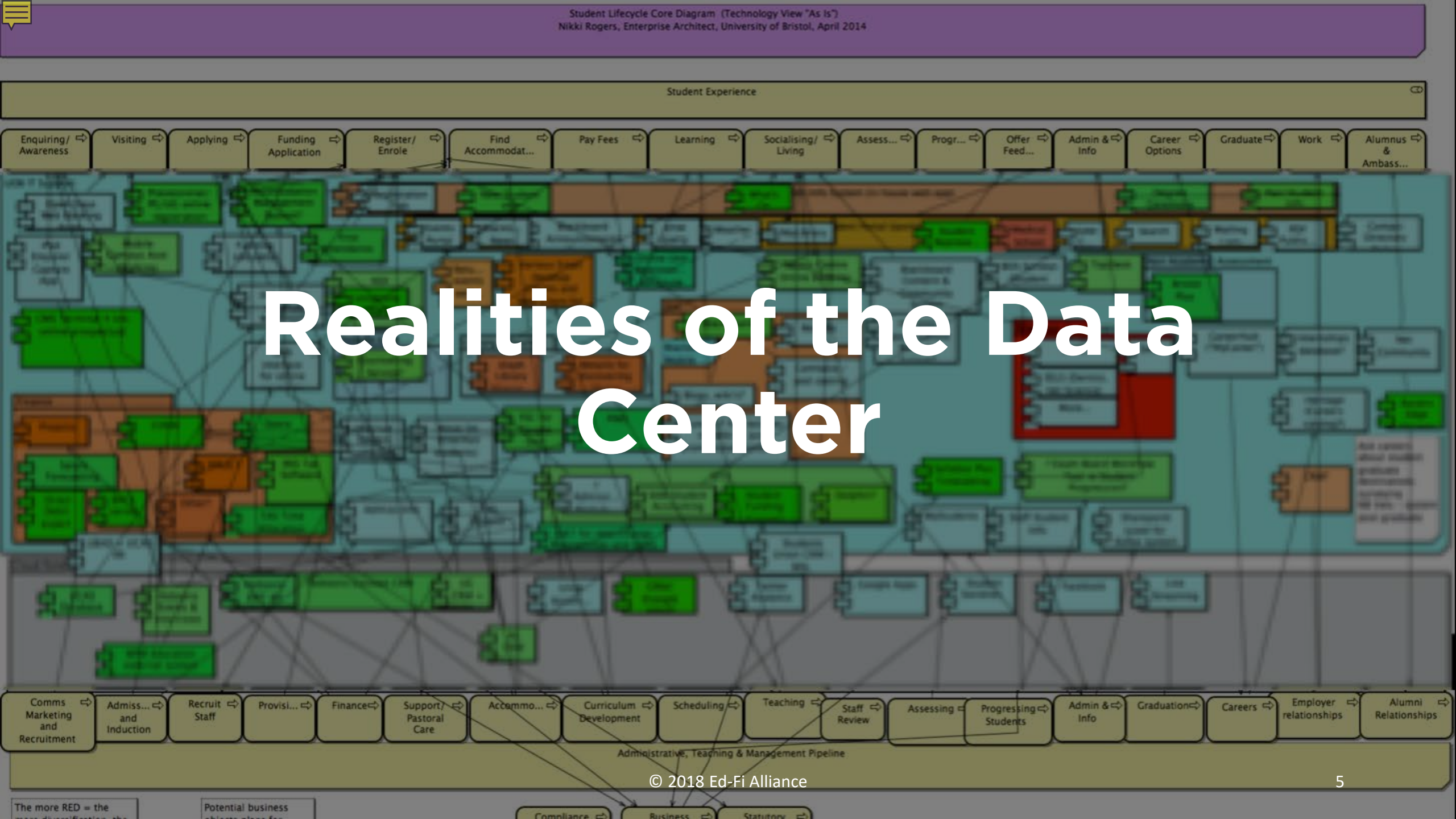

Realities of the Data Center

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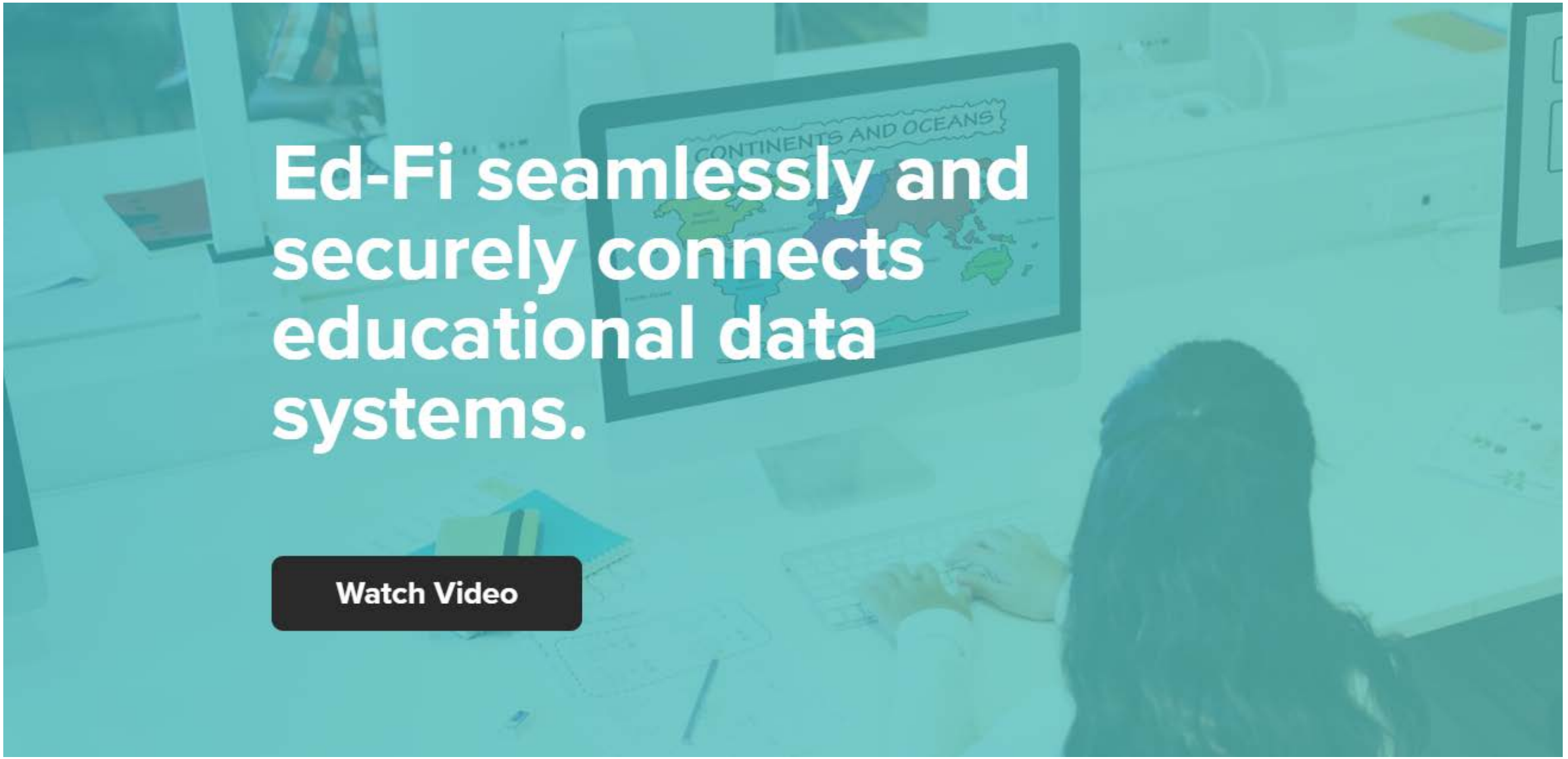


Ed-Fi seamlessly and securely connects educational data systems.

Watch Video

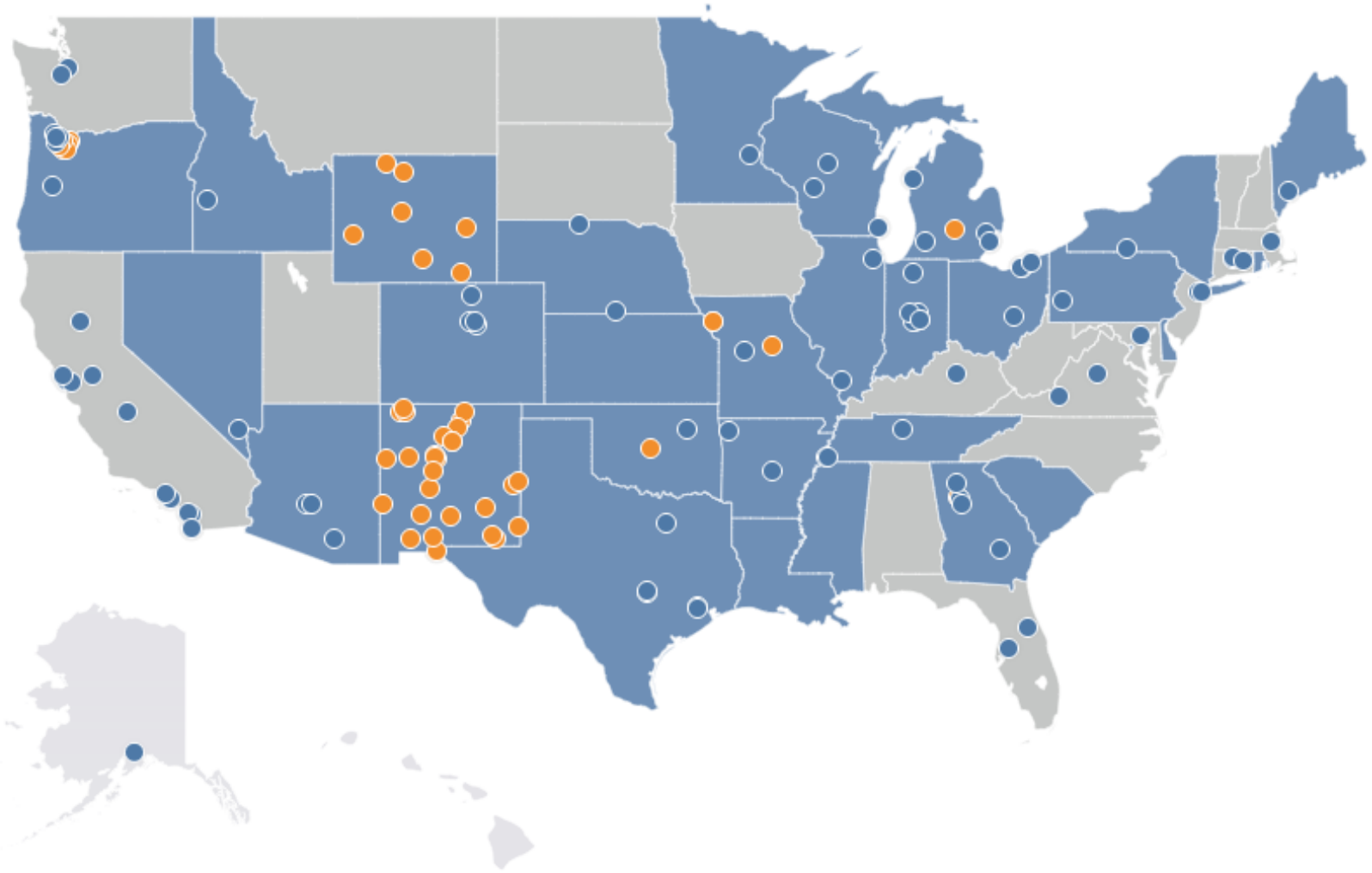
Who Cares About and Is Impacted by This?

1. LEARNERS!
2. Educators
3. Administrators
4. Parents
5. College, Community College, post-graduation
6. Employers, Career Pathways
7. State & National Depts of Ed
8. Vendors and Solution Providers

Who Else Is Working on This?

1. Ed-Fi Alliance (data standards)
2. Common Education Data Standards (common data dictionary)
3. IMS Global (content/tools standards)
4. Project Unicorn (interoperability pledge)
5. Other professional groups (e.g. Teacher Preparation Programs, iNacol, Digital Promise, CoSN)
6. Philanthropic Organizations (e.g. Michael and Susan Dell Foundation)
7. Visionary vendors (e.g. SIS, assessment, analytics vendors)

Where is the Ed-Fi Community Addressing Interoperability?



30.8M (61%)
students

1.9M (62%)
teachers

30 (59%)
states (+DC)

11.5K (69%)
districts

237
licensed vendors

Total students in US: 50.0M
Total teachers in US: 3.0M

Common Language

Ed-Fi surfaces all of your school's systems, tools, and software onto a single platform.

Know Everything

Ed-Fi finally delivers the comprehensive insights teachers need to deliver personalized learning.

Zero Fees

The Ed-Fi data standard is offered with no fees from Ed-Fi —making data integration affordable.

Secure & Protected

At every step, and at all moments, your data is safe and in your control.

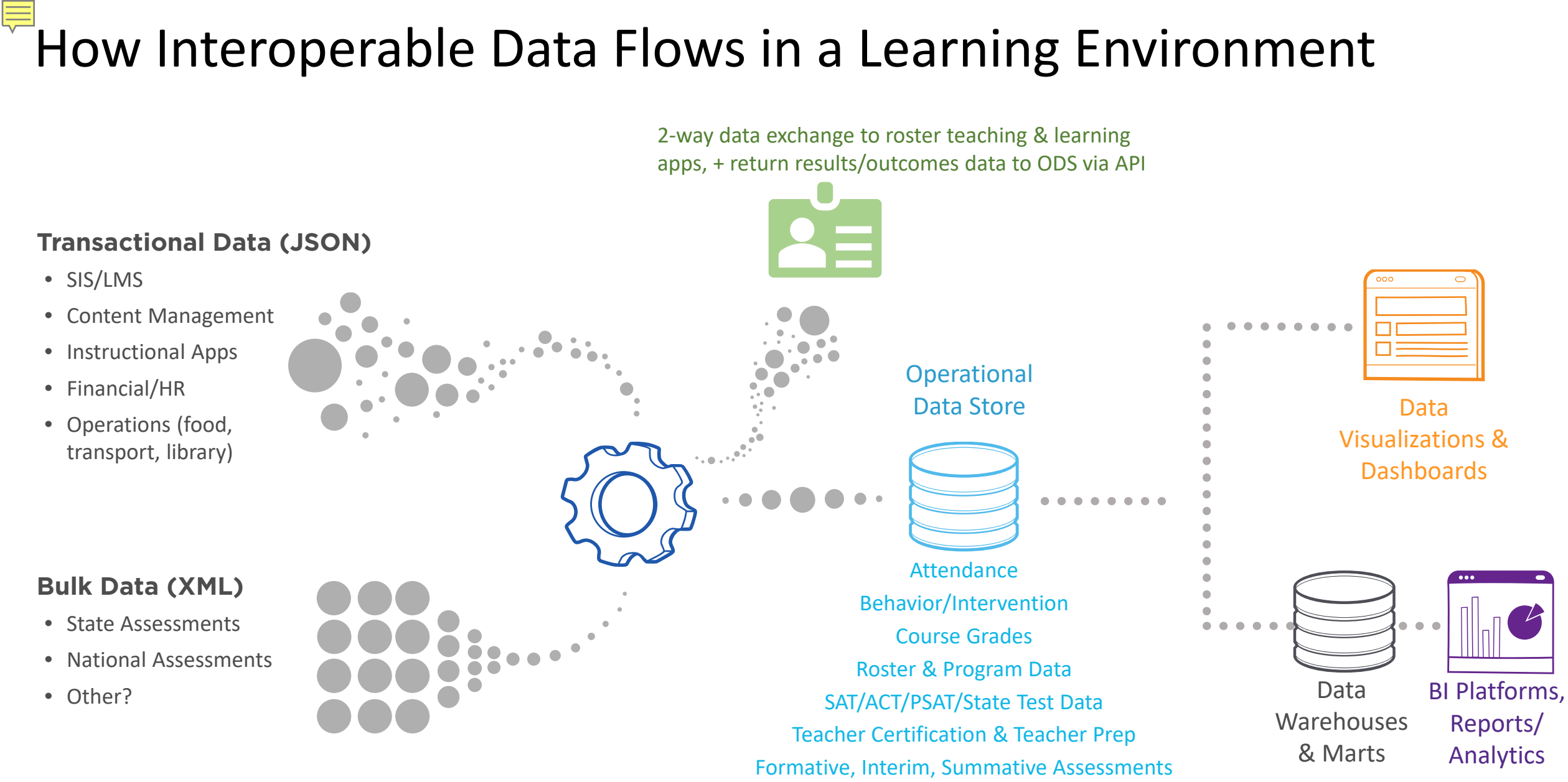
Nonstop Improvement

An active community of educators and technologists advance Ed-Fi every day.

Teacher's Choice

Ed-Fi powers the finest technology on the market. Choose your favorite tools.

How Interoperable Data Flows in a Learning Environment



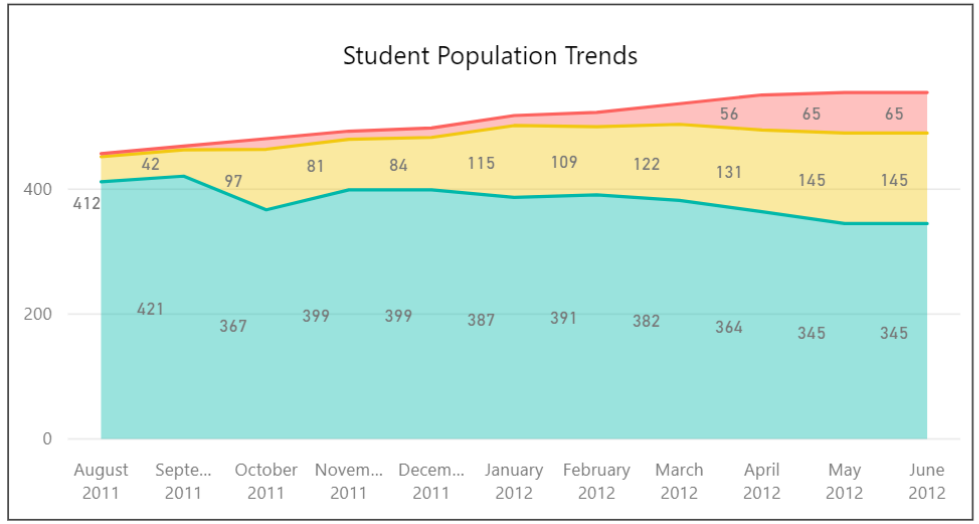
The Power of Data: Insights, Patterns

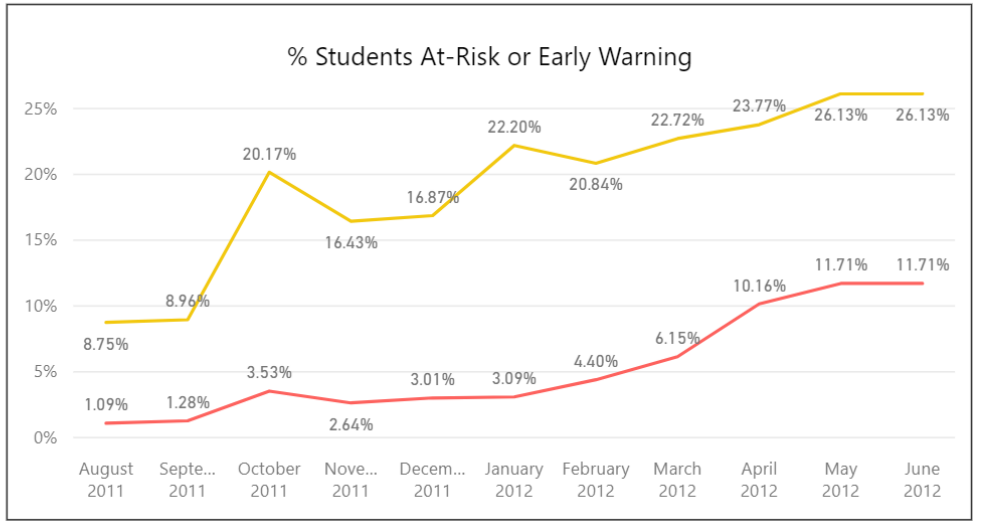
School Name

Anderson Middle School

Early Warning Metrics

On Track		Early Warning		At-Risk	
344	62.16%	146	26.13%	65	11.71%





Year-To-Date Metrics

Enrollment	Average Overall Grade
555	84.39
	Average English Grade 83.68
Average Attendance Rate 89.12%	Average Math Grade 80.24

Overall Indicator ...	Student Name	Grade Level	Attendance ...	Overall Grade ...	Math Grade ...	English Grade ...
At-Risk	Alicia Mcdaniels	Sixth grade	81.61 %	71.00	61.50	
At-Risk	Altorriyo Lopez	Seventh grade	66.39 %	89.83	76.00	
At-Risk	Amanda Xiong	Eighth grade	28.57 %	81.78	76.00	85.00
At-Risk	Amber Mcdaniels	Seventh grade	51.85 %	72.50	70.00	
At-Risk	Armando Ridge	Eighth grade	81.14 %	70.17	50.00	
At-Risk	Arvin Norton	Sixth grade	78.86 %	72.00	64.00	
At-Risk	Ashlie Foster	Seventh grade	36.36 %	74.43	73.00	
At-Risk	Brandy Keefe	Eighth grade	76.92 %	68.73	75.00	83.00
At-Risk	Brett Garay	Sixth grade	84.71 %	81.50	64.00	
At-Risk	Charrod Dillard	Eighth grade	57.75 %	69.13	63.00	52.00

District Averages | School | School (Dynamic) | Student | Teacher & Sections

The Power of Data: Actionable

Teacher Name

All

Sections

LocalCourse...	Course Title
GYMR31	Aerobic Activities
GYMR32	Aerobic Activities
PEDR50	Aerobic Activities
PEDR60	Aerobic Activities
YRMR11	Agribusiness Management and Ma...
YRBR11	Agricultural Facilities Design and F...
YRRR11	Agricultural Mechanics and Metal ...
MALR11	Algebra I (1 Unit)
MALZ11	Algebra I (1 Unit)
MAPH8A	Algebra I (1 Unit)
OALR11	Algebra I (1 Unit)
QALR11	Algebra I (1 Unit)
XMCT11	Algebra I (1 Unit)
XMSF11	Algebra I (1 Unit)
XLTM11	Algebra I Alternate
XSMP11	Algebra I Alternate
XAAL11	Algebra I Modified
XVMP11	Algebra I Modified
MALH31	Algebra Ii (1 Unit)
MALR31	Algebra Ii (1 Unit)
MALZ31	Algebra Ii (1 Unit)
QALR31	Algebra Ii (1 Unit)

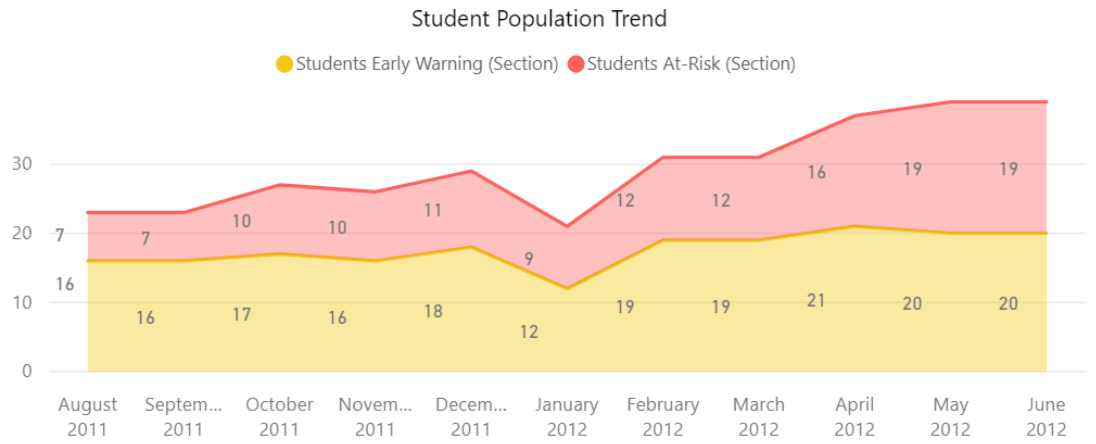
Early Warning Metrics

Students At-Risk

19

Students Early Warning

20



Enrolled Students

Overall Indicator ...	Student Name	LocalCourseCode	Course Title	Last Section Gra...
At-Risk	Victor Trevino	XAAL11	Algebra I Modified	73.00
On Track	Rex Loper	XAAL11	Algebra I Modified	84.00
Early Warning	Curtis Aysien	XAAL11	Algebra I Modified	85.00
At-Risk	Alejandro Mayfield	XAAL11	Algebra I Modified	86.00
On Track	Landon Guerrero	XAAL11	Algebra I Modified	87.00
At-Risk	Kathryn Kerns	XAAL11	Algebra I Modified	90.00
Early Warning	Michael Moore	XAAL11	Algebra I Modified	90.00
Early Warning	Tracey Lamar	XAAL11	Algebra I Modified	90.00
On Track	Kelley Hostetler	XAAL11	Algebra I Modified	91.00
On Track	Kirk Alban	XAAL11	Algebra I Modified	91.00
Early Warning	Jonathan Cotton	XAAL11	Algebra I Modified	93.00
On Track	Michael Brickey	XAAL11	Algebra I Modified	93.00
On Track	Marcos Ochoa	XAAL11	Algebra I Modified	94.00

Top 10 Considerations for How to Begin

General Considerations

1. Not just IT
2. Define/align your strategic priorities
3. Take a Thin Slice approach
4. Rapid return on value
5. Think agile
   - Analytics
   - Data visualization

Practical Steps

1. Use standards-based, certified solutions
2. Use cloud-based options
3. Join industry communities (like Project Unicorn)
4. Join district collaboratives
5. Communicate interoperability requirements early with key vendors

Working with Ed-Tech Vendors

Help vendors justify the work and make the business case.

What can you (as an agency – the demand side) do?

- You hold the cards
- Community: power in numbers
- Make your needs and requirements known through:
  - your vendor support channel
  - your vendor account leadership channels
- Customer requests become roadmap priorities.

How it Benefits Vendors (the supply side)…

- Aggregated demand = common requirements across agencies (reduced risk)
- Portable, replicable, reusable code (reduced costs)
- A standard way to implement a solution
- Secure, real time data exchange improves user experience & data value
- Opens markets for vendors (increased revenue)
- More standard/structured data improves analytics (product) insights + customer offerings
- Unlocks innovation through specialization and complementary solutions

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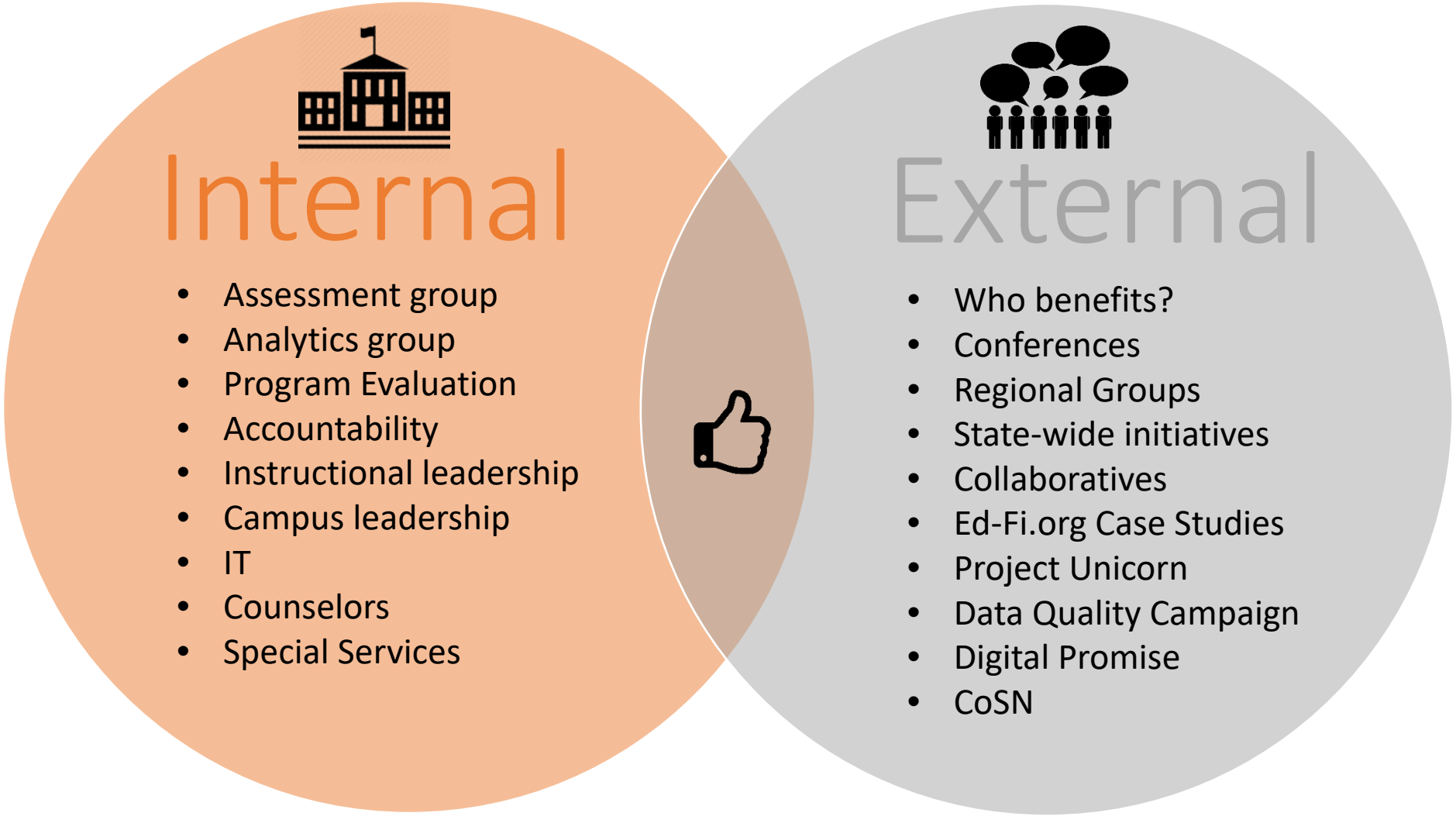
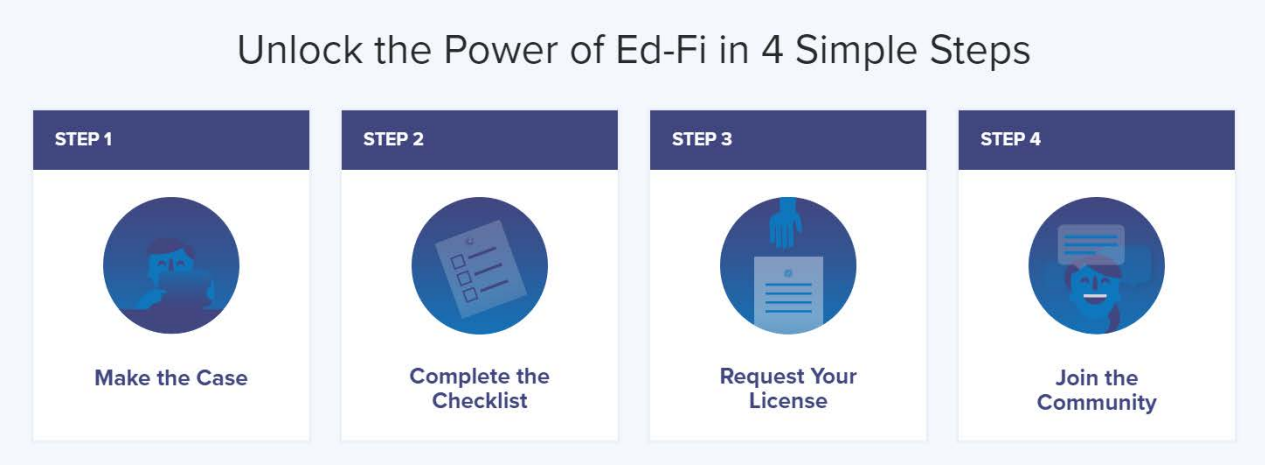
Build Support, Leverage MOMENTUM



Resources to Engage



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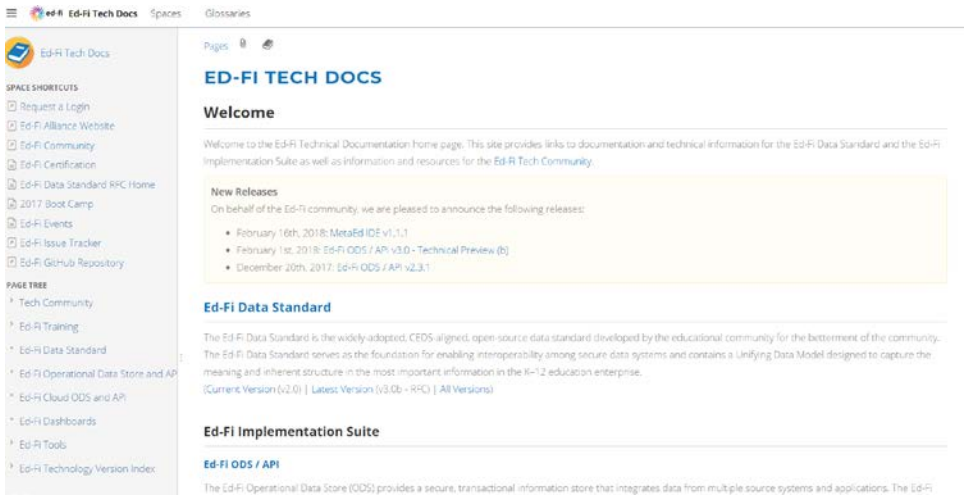
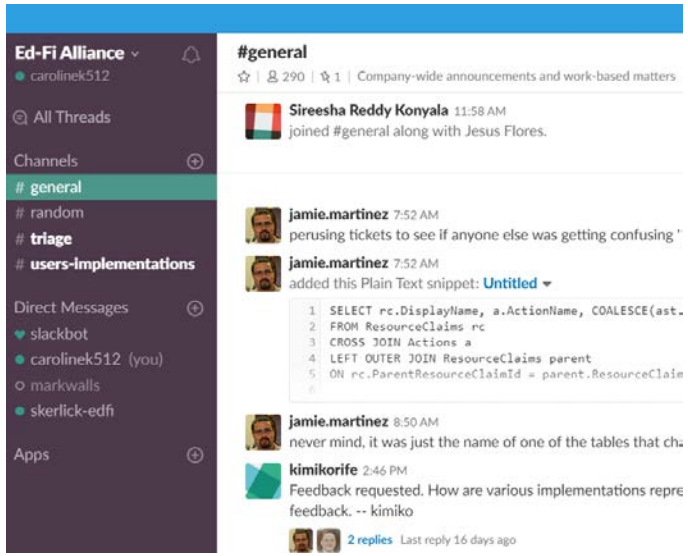
LAST NAME *

EMAIL *

COMPANY *

Submit





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Where to find us

And… many national & regional conferences and convenings
Do you know of an event that would help support your district & your peers?

Questions and Next Steps

Thank you to Jamie & Matt for their vision & leadership @ Volusia!

Contact Sean Casey sean.casey@ed-fi.org to learn more…

Next steps and calls to action

1. Talk with your teams/leadership & share your learnings
2. Join Project Unicorn (district pledge) and Ed-Fi (license & join the Community)
3. Just start – there are ways to start small and deliver for your learners - now!

Remember… there is power in numbers, and many of your peers are a part of this community and this movement. Your learners and educators need this to get the most of their learning and opportunities!

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