

# 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.

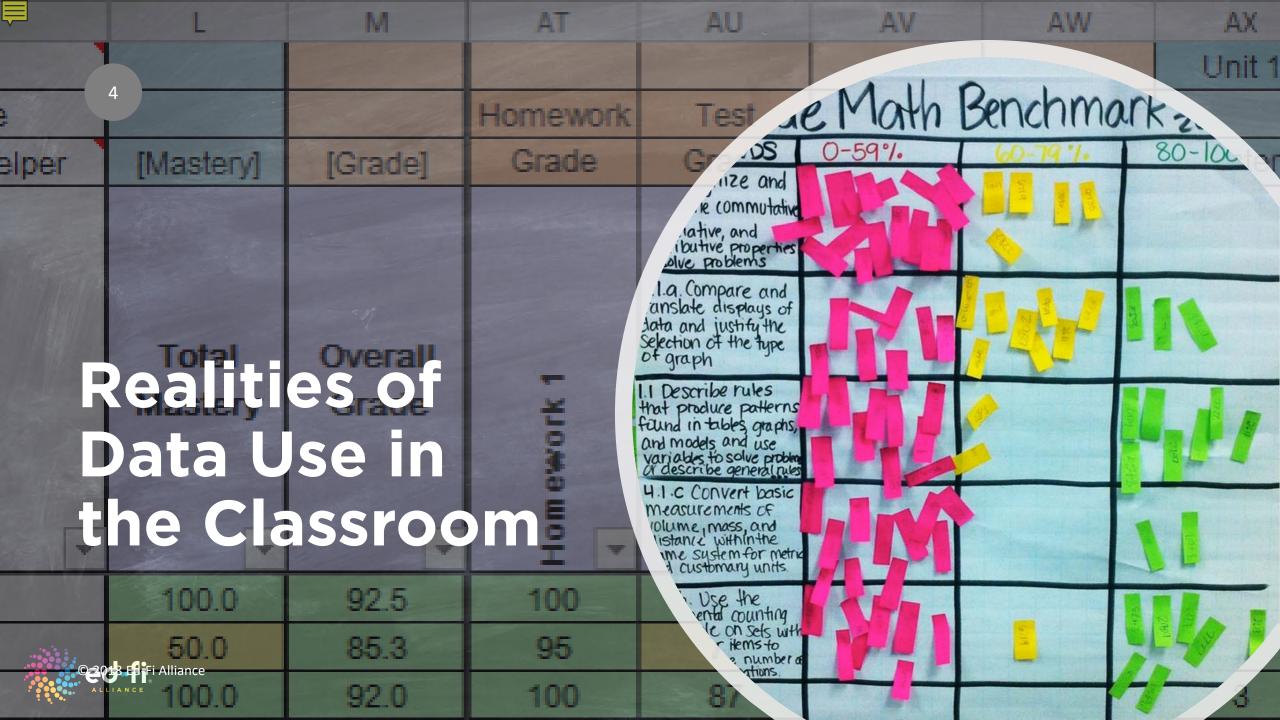
#### Who are you (to your learners)?

- 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?







					Stu	ident Experience							Ø
Enquiring/ 🛱 Visiti Awareness	ing ⇔ Applying ⇔		tegister/ 🛱 Acco	Find S Pi	ay Fees ⇔ Lo	earning 🖘	Socialising/ =>	Assess 🗘 Pro	gr⇔ Offer ≒ Feed	Admin & ⇔ Info	Career ⇔ Gra Options	duate⇔ Work ⇔	Alumnus ⇔ & Ambass
													-
		Re			Ce		The second second			GI	G		
				自能						-18.		8/1	
a family a family		Provisi⇔ Finance⇔	Support) e			cheduling		taff 🗢 Assessin			Graduation⇔ Car	reers 🖘 Employer 🛱	Alumni ⇔ Relationships
Recruitment and Induct		siness	Pastoral Care	×.		e, Teaching & Ma 018 Ed-Fi A	nagement Pipeline		Students			5	

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

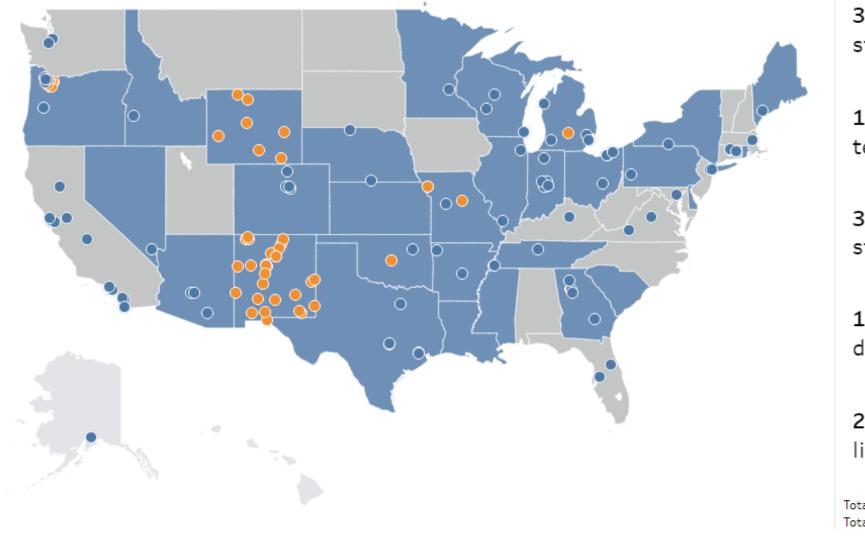


# Who Else Is Working on This?

- 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

Know Everything

Ed-Fi surfaces all of your school's systems, tools, and software onto a single platform. Ed-Fi finally delivers the comprehensive insights teachers need to deliver personalized learning.

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

**Zero Fees** 

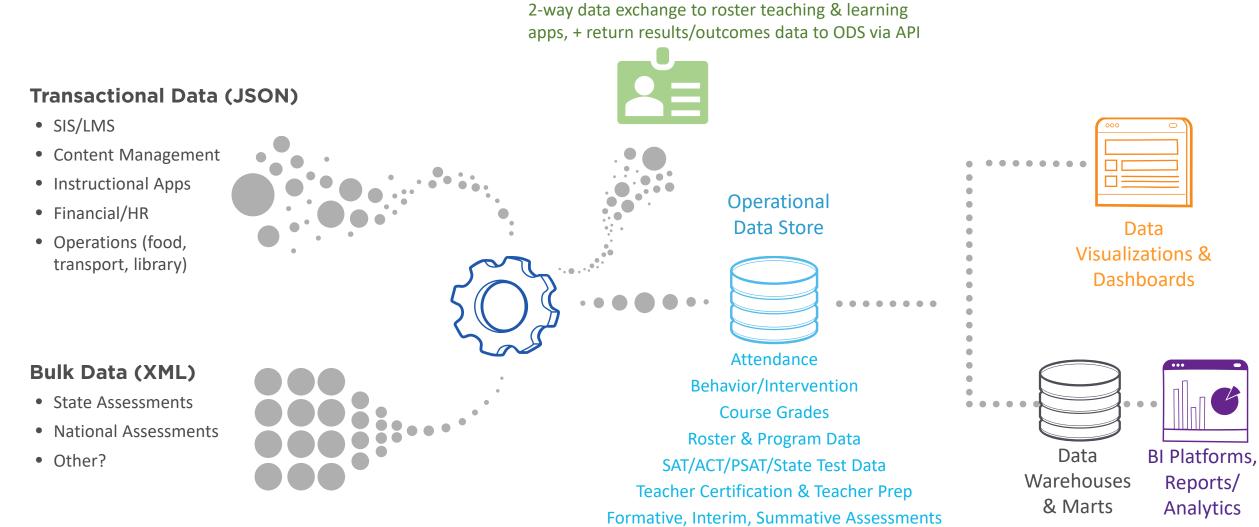
Secure & Protected

Nonstop Improvement

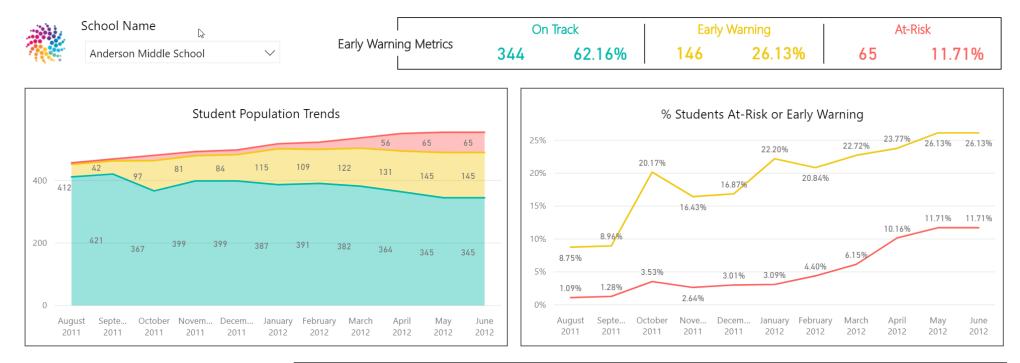
At every step, and at all moments, your data is safe and in your control. An active community of educators and technologists advance Ed-Fi every day. Teacher's Choice

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



Year-To-Da	ate Metrics	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		
Enrollment	Average Overall Grade	At-Risk	Altorriyo Lopez	Seventh grade	66.39 %	89.83	76.00		
555	84.39	At-Risk	Amanda Xiong	Eighth grade	28.57 %	81.78	76.00	85.00	
555	Average English Grade	At-Risk	Amber Mcdaniels	Seventh grade	51.85 %	72.50	70.00		
	83.68	At-Risk	Armando Ridge	Eighth grade	81.14 %	70.17	50.00		
		At-Risk	Arvin Norton	Sixth grade	78.86 %	72.00	64.00		
Average Attendance Rate	Average Math Grade	At-Risk	Ashlie Foster	Seventh grade	36.36 %	74.43	73.00		
89.12%	80.24	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 Dick	Charrod Dillard	Eighth grada	E7 7E 0/	60.10	62.00	52.00	$\sim$

### The Power of Data: Actionable

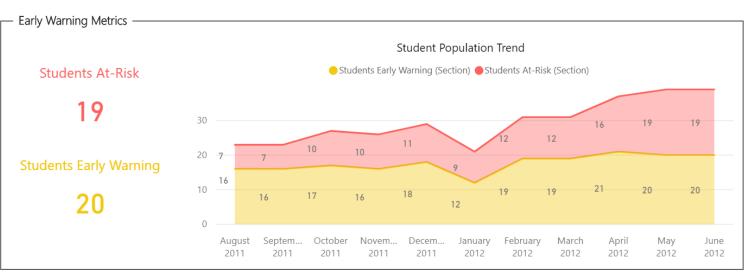
 $\diamond$ 

^

V

AI	
<ul> <li>Sections ——</li> </ul>	
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 li (1 Unit)
MALR31	Algebra li (1 Unit)
MALZ31	Algebra li (1 Unit)
QALR31	Algebra li (1 Unit)

Teacher Name



- F	nnollad Ctudanta				× 51 ····
	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

Ŧ

- 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

## **Build Support, Leverage MOMENTUM**



- Assessment group
- Analytics group
- Program Evaluation
- Accountability
- Instructional leadership
- Campus leadership
- IT
- Counselors
- Special Services



- Who benefits?
- Conferences
- Regional Groups
- State-wide initiatives
- Collaboratives
- Ed-Fi.org Case Studies
- Project Unicorn
- Data Quality Campaign
- Digital Promise
- CoSN

## **Resources to Engage**

Unlock the Power of Ed-Fi in 4 Simple Steps STEP 1 STEP 2 STEP 3 STEP 4 Complete the **Request Your** Make the Case Join the Checklist License Community E defit Ed-Fi Tech Docs Spaces Glossaries Pages 8 Ed-Fi Alliance #general I ☆ | 皂 290 | 垓1 | Company-wide announcements and work-based matters **ED-FI TECH DOCS** SPACE SHORTCUTS Request a Login Welcome All Threads Ed Fi Alliance Website Welcome to the Ed-FI Technical Documentation home page. This site provides links to docu Implementation Suite as well as information and resources for the Ed-R Tech Community. Ed-Fi Data Standard RFC Home # general New Releases 2017 Boot Camp On behalf of the Ed-Fi community, we are pleased to announce the following releases: Ed-FLEvents February 16th, 2018; MetaEd IDE v1.1.1 triage Ed-Fillssue Tracker February 1st, 2018; Ed-FI ODS / API v3.0 - Technical Preview (b) users-implementations December 20th, 2017; Ed-Fr ODS / API v2.3.1 PAGE TREE \* Tech Community **Ed-Fi Data Standard** \* Ed Fi Training The Ed-Fi Data Standard is the widely-adopted, CEDS-aligned, open-source data standard developed by the educational community for the betterment of the community. The Ed-Fi Data Standard serves as the foundation for enabling interoperability among secure data systems and contains a Unifying Data Model designed to capture the carolinek512 (you) meaning and inherent structure in the most important information in the K-12 education enteronise. (Current Version (v2.0) | Latest Version (v3.0b - RFC) | All Versions) skerlick-edfi \* Ed-Fi Dashboards Ed-Fi Implementation Suite Ed Fi Tools Ed-FI ODS / API \* Ed-Fi Technology Version Index

#### ed-fi CONNECT

#### **NEWS + UPDATES FROM THE ED-FI ALLIANCE**

LAST NAM	ИЕ *	
EMAIL *		
COMPAN	/ <b>*</b>	
Subn	nit	
Subn	nit	

#### © 2018 Ed-Fi Alliance

2 replies Last reply 16 days ago

Sireesha Reddy Konyala 11:58 AM

jamie.martinez 7:52 AM

iamie.martinez 7:52 AM

jamie.martinez 8:50 AM

kimikorife 2:46 PM

feedback. -- kimiko

joined #general along with Jesus Flores.

added this Plain Text snippet: Untitled -

4 LEFT OUTER JOIN ResourceClaims parent

2 FROM ResourceClaims rc

3 CROSS JOIN Actions a

perusing tickets to see if anyone else was getting confusing '

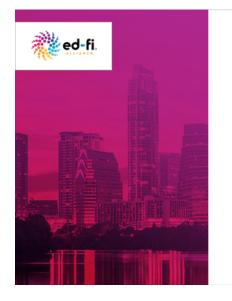
1 SELECT rc.DisplayName, a.ActionName, COALESCE(ast.

5 ON rc.ParentResourceClaimId = parent.ResourceClaim

never mind, it was just the name of one of the tables that cha

Feedback requested. How are various implementations repre-

### Where to find us



SAVE THE DATE

#### Ed-Fi Summit & Bootcamp 2018

October 9-12, 2018 Austin, TX

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 <u>sean.casey@ed-fi.org</u> 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!

