Powering Personalized Learning: From Vision to Implementation

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What are you going to get out of this session?

- Deep knowledge of how data can and should be used to support personalized learning
- Better understanding of how one state is collaborating across levels to integrate data to support their vision for personalized learning
- Background of resources available to you and your colleagues looking to expand your own data-driven support for personalized learning

What is Personalized Learning? -- How are we defining it here?

PACE OF LEARNING

Pace of learning refers to the amount of time students are permitted to tackle a given learning objective before they "move on" to subsequent objectives or explore the current topics at a deeper level.

LEARNING OBJECTIVES

Learning objectives are specific learning goals a student is working towards, which are aligned to established learning standards..

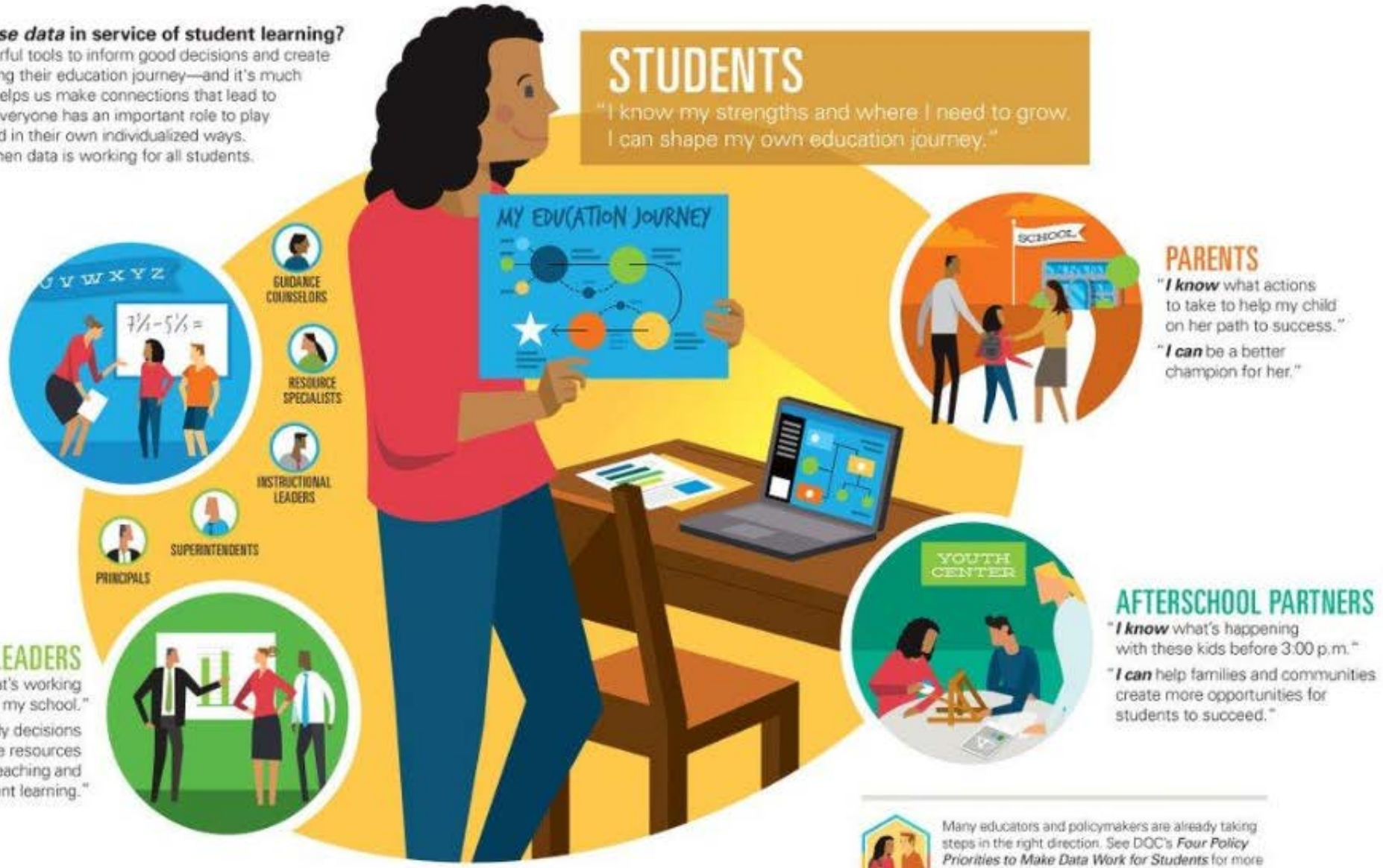
INSTRUCTIONAL APPROACH

Instructional approach refers refers to the learning activities, experiences, instructional groupings and resources used to support student mastery of learning objectives.

THE BIG IDEA: When students, parents, educators, and partners have the right information to make decisions, students excel.

PRODUCED BY DQC DATA QUALITY CAMPAIGN dataqualitycampaign.org

What does it mean to *use data* in service of student learning?
Data is one of the most powerful tools to inform good decisions and create opportunities for students along their education journey—and it's much more than test scores. Data helps us make connections that lead to insights and improvements. Everyone has an important role to play in helping all students succeed in their own individualized ways. Here's what it will look like when data is working for all students.



Many educators and policymakers are already taking steps in the right direction. See DQC's ***Four Policy Priorities to Make Data Work for Students*** for more on making this vision a reality for all students.

You Need Data to Personalize Learning

For all students to be college and career ready, they need a learning experience that is tailored to their unique needs, skills, and interests. Data is a critical tool that makes this personalized learning possible. When students, parents, and teachers are empowered with access to timely, useful, safeguarded data, there are so many ways to support students on their path to success.

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DATA ACCESS

Students, parents, and teachers have timely access to appropriate data in a format that makes sense to them.

DATA PRIVACY

Policies and practices protect the privacy and confidentiality of student data in secure systems.

TIME & TRAINING TO USE DATA

Teachers have the time, tools, and training to collect, analyze, and use student data in an ethical way to make instructional decisions.

WITH DATA, LEARNING IS INDIVIDUALIZED

Teachers, parents, and students know where students are, and which instructional strategies and supports will best serve their unique needs, skills, and interests to get them where they need to go.

WITH DATA, LEARNING CONTINUES OUTSIDE OF THE CLASSROOM

Teachers, parents, and students understand how students can benefit from learning opportunities beyond the classroom.

COLLEGE & CAREER READY

However you personalize learning, data is a necessary tool for supporting every student on their path to success.

WITH DATA, STUDENTS ARE PARTNERS IN THEIR OWN LEARNING

Students understand their performance and their progress towards learning goals over time. They use this information to ask questions, make decisions, and have more ownership of their learning.

WITH DATA, LEARNING IS ABOUT MASTERY, NOT TIME SPENT IN CLASS

Teachers can support each student's path to success with a detailed understanding of where they are and what skills and concepts they still need to master.

However you personalize learning, data is necessary for supporting every student on their path to success.

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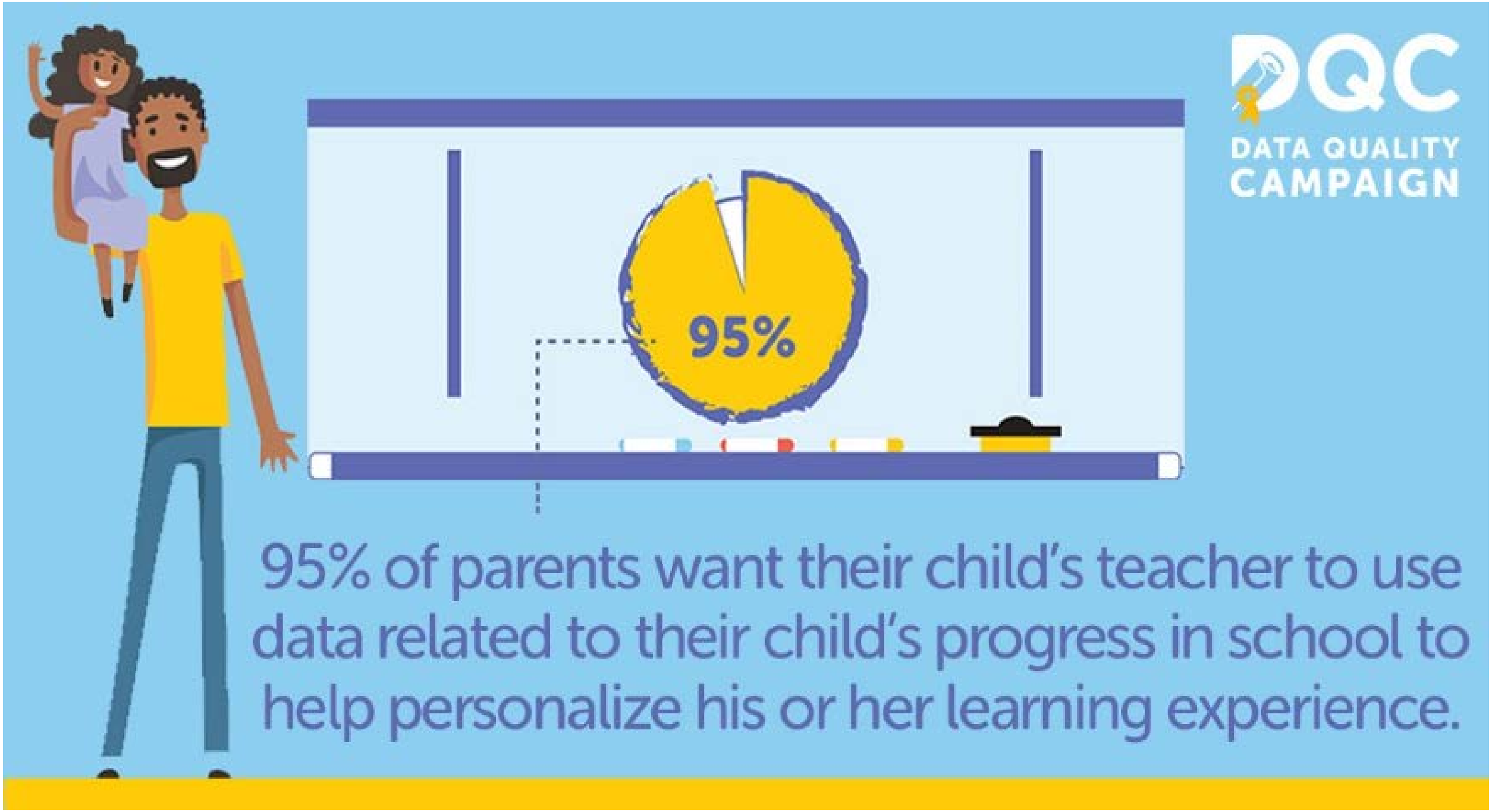
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95%
95% of parents want their child's teacher to use data related to their child's progress in school to help personalize his or her learning experience.

Data Makes Personalized Learning Possible.

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Data Systems and Access

If personalized learning is a state priority, set goals and clarify how you will measure progress. Support districts' capacity to use data to identify and share best practices.

Time and Training

Create policies that ensure that teachers and administrators have preservice and career-long training on how to use data ethically and effectively.

Data Privacy

Ensure that data privacy policies are in place and that they follow best practices and allow role-based access for those who use data to support student learning.

Policymakers have a critical role in making personalized learning successful

So…
How Do We Plan & Implement This?

What's The Foundation for This Vision?

We Believe Interoperable Data is Essential

- Data that flows seamlessly, securely, and in real-time
- Populating and being populated by current data (multiple sources)
- Supporting best of breed tool choice
- Surfacing insights from data at the right time
- Supporting student agency and ownership of their learning
- Providing holistic, comprehensive understanding of learners' needs

Where Do I Start? At a High Level…

- Adopt standards (they exist for data, content, tools, etc.)
- Make the request of your vendors to support those standards
- Use/select tools that are certified to support your adopted standards
- Join communities focused on Interoperability: Ed-Fi & Project Unicorn
- Consider platform partners and system integrators that build upon interoperability standards

How to Implement and Operationalize

Ed-Fi provides you with

- Interoperability data standards

  AND

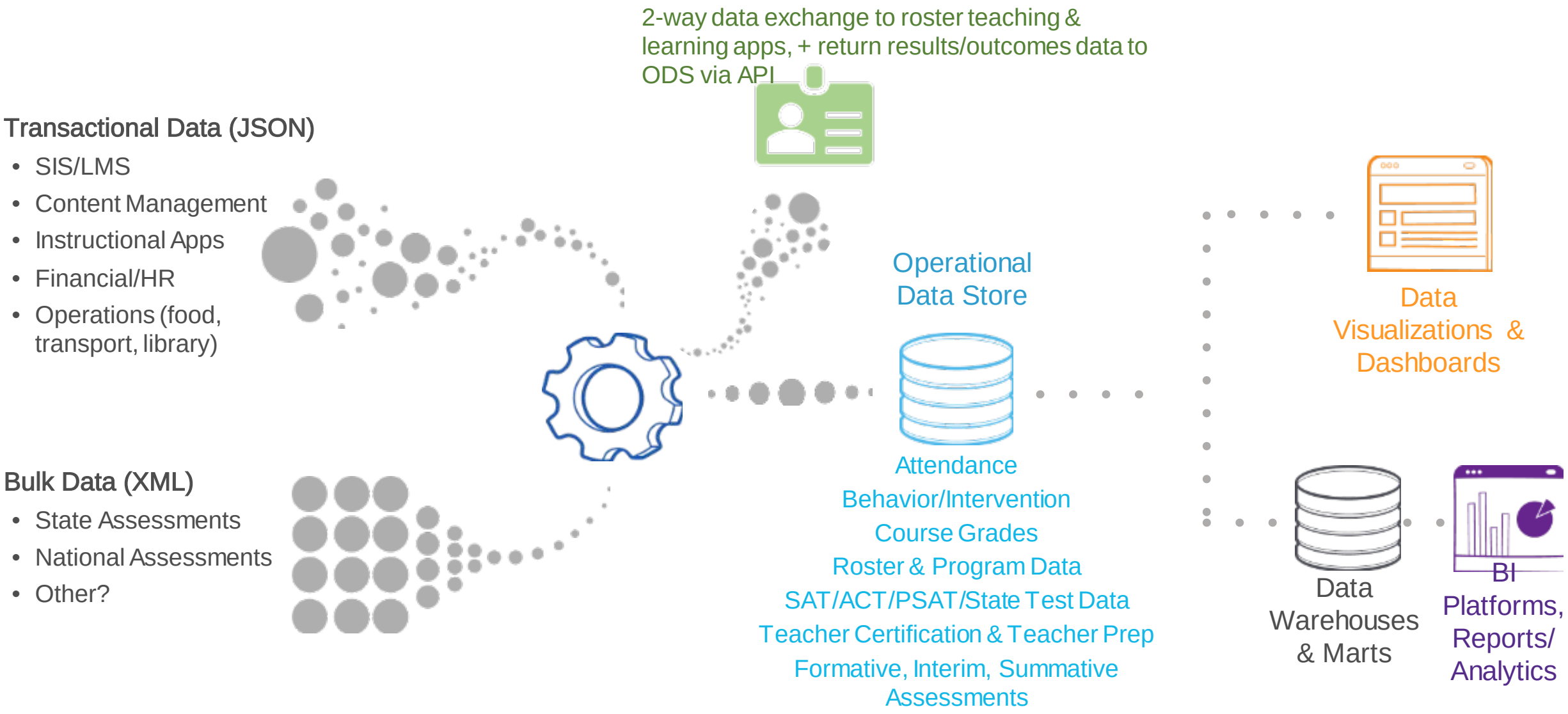
- Tools, starter kits, and accelerators for you to use and build upon

  ALL FREELY AVAILABLE FOR YOUR USE

The overall components are:

- A data standard (CEDS-aligned) with underlying logical data model
- Operational Data Store (ODS) and API that implement the standard
- Tooling and ongoing enhancements for + by the Ed-Fi community
- *Plus an ecosystem of partners and ever-growing range of solutions

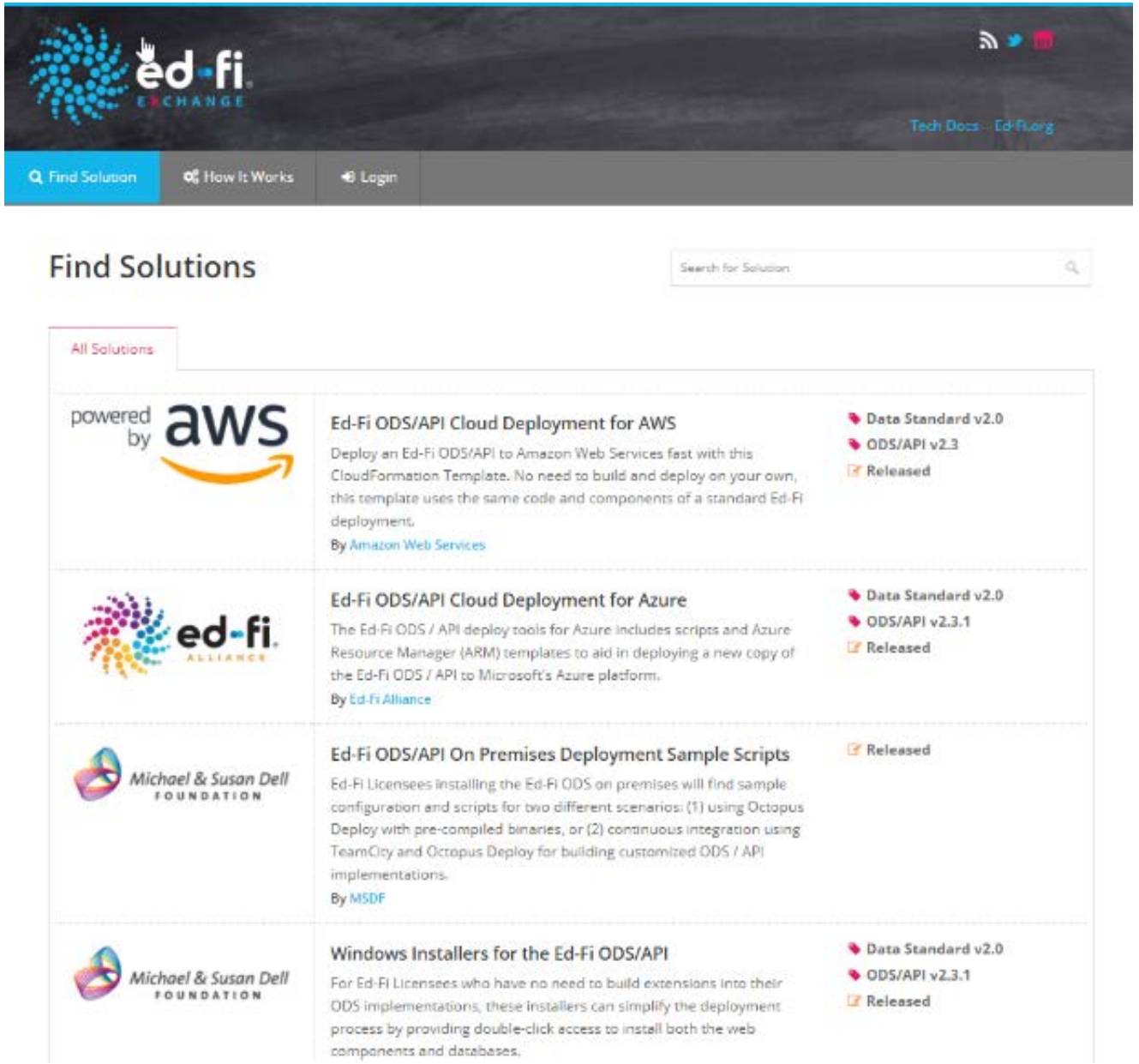
How Would This Look & Work in My Environment?



Do Standards Allow Flexibility?

YES!

- In computing environment choice
- In enumerations & local/state specific values
- In tool choice & system adoptions
- In sharing solutions among agencies



Fast Forward… What Will This Ultimately Mean for My Org & My End Users?

- “Invisible and visible” benefits
- Flexible and responsive data architecture
- Sustainable design
- Manageability of privacy, security, AND support of best of breed tool choice
- 360 view/understanding of learners and learning
- Transparency into impact and learning outcomes

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

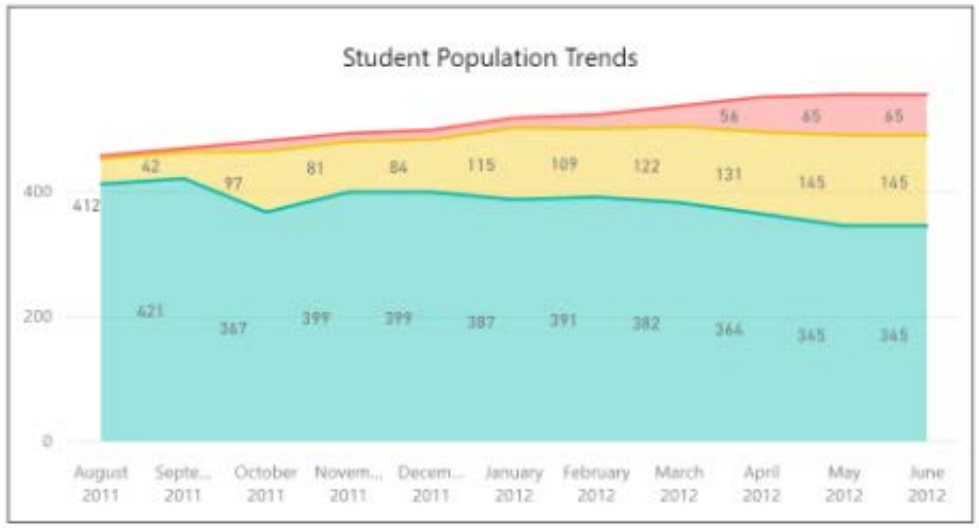
Ed-Fi powers the finest technology on the market. Choose your favorite tools.

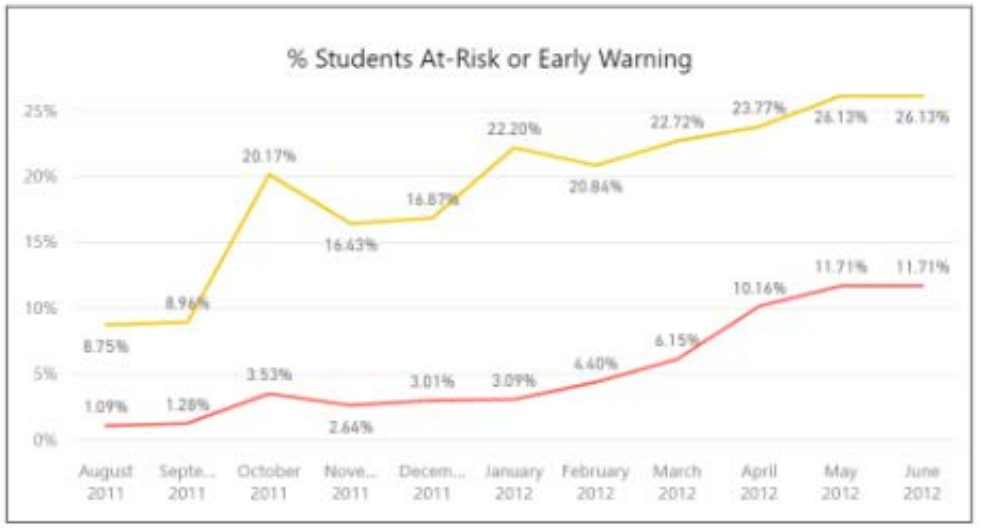
The Power of Data: Insights, Patterns

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 Attendance Rate	Average English Grade
89.12%	83.68
	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	

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)
MAPHBA	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)

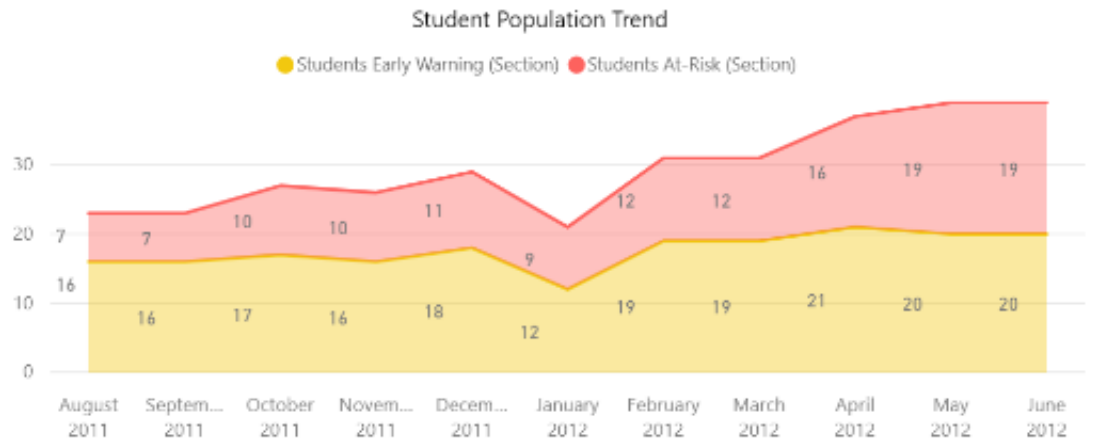
Early Warning Metrics

Students At-Risk

19

Students Early Warning

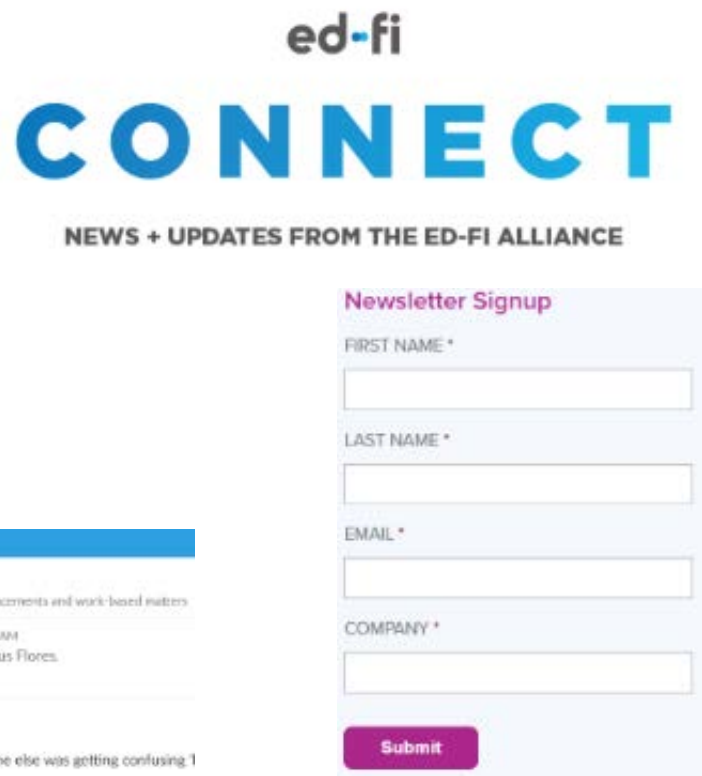
20

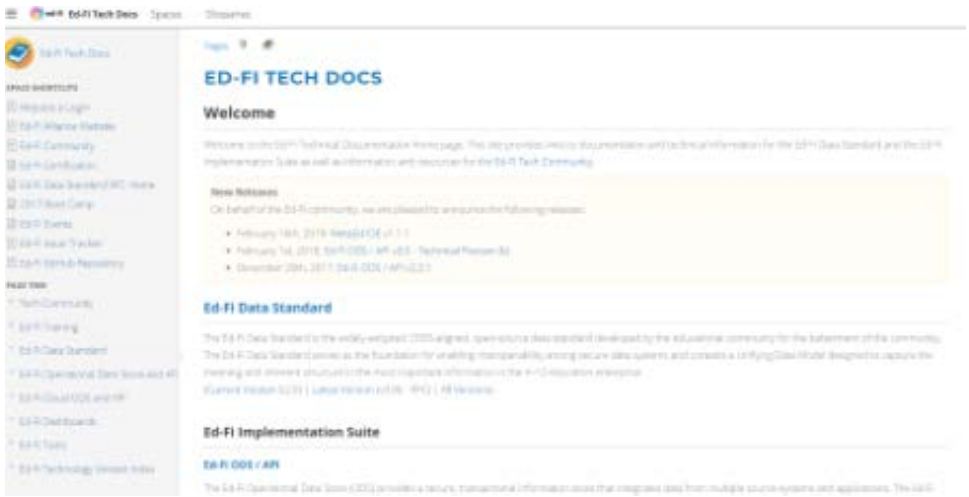


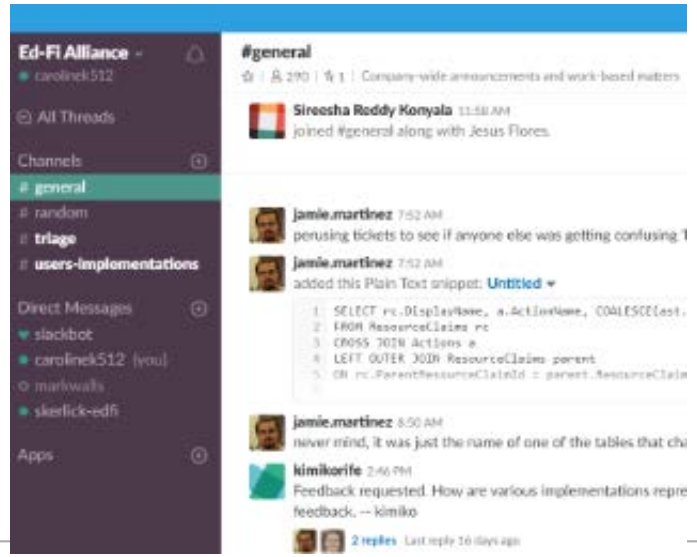
Enrolled Students

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

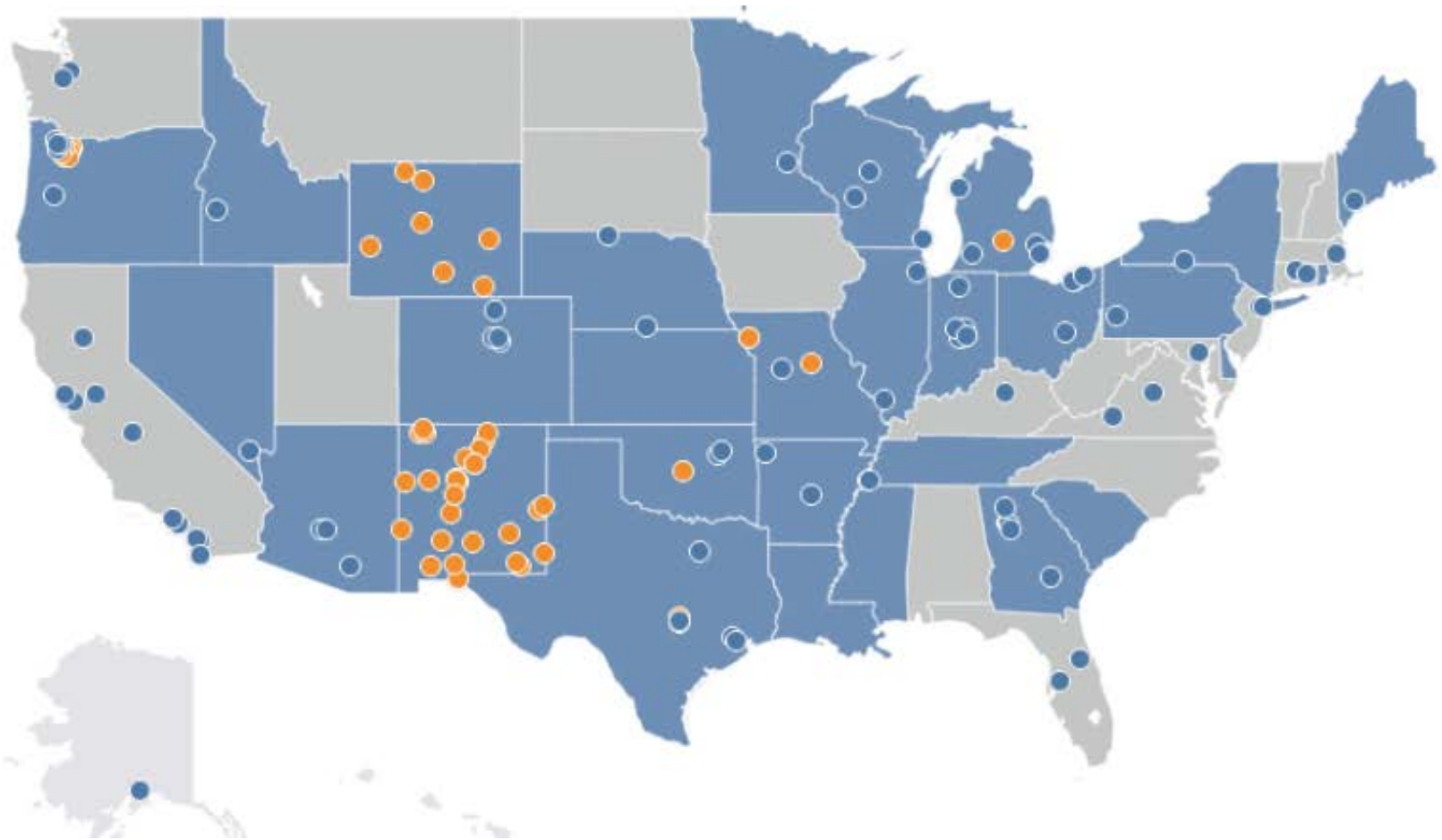
How Do I Join This Movement & Community?







Are There Others Who Have Done This? YES!



30.9M (61%)
students

1.9M (62%)
teachers

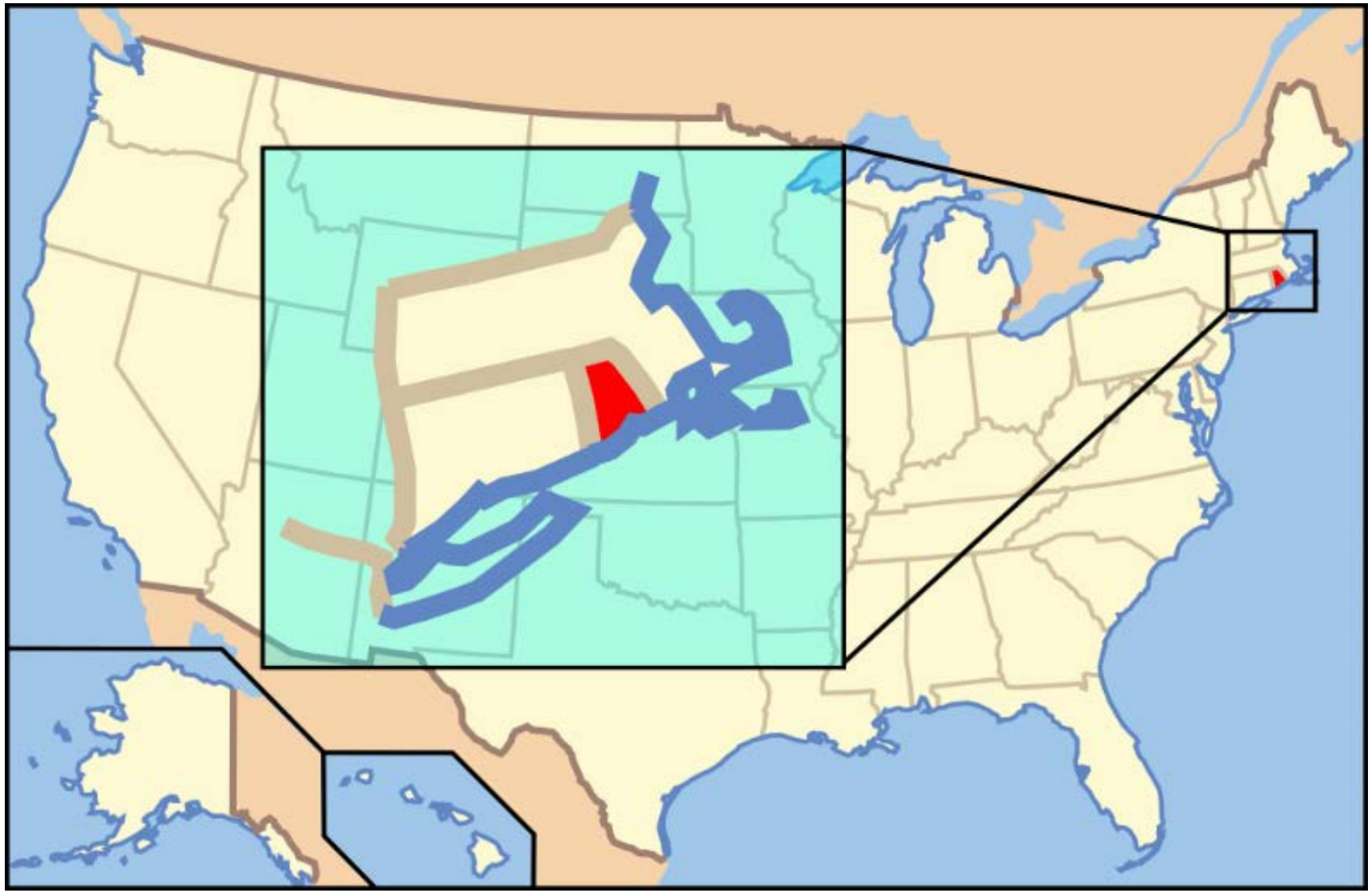
30 (59%)
states (+DC)

11.5K (69%)
districts

241
licensed vendors

ed-fi ALLIANCE

Spoiler: Rhode Island is one of them



State of Rhode Island
Office of Innovation

Rhode Island Ed-Fi Consortium

Providence Schools

InnovateEDU

CENTRAL FALLS SCHOOL DISTRICT

State of Rhode Island Office of Innovation

RIDE Rhode Island Department of Education

Education Innovation Research Network

The **Education Innovation Research Network** launched in March 2017, provides Rhode Island scholars and practitioners with opportunities to collaborate on meaningful, rapid-cycle action research. The network acts as a resource to address pressing education challenges locally in RI, while serving as a model for national efforts toward innovation. Research projects can span the gamut of education innovation but they always:

1. Create deep partnerships between practitioners and researchers;
2. Connect RI research efforts with other local and national stakeholders to better leverage the wealth of knowledge here in RI;
3. Connect scholars from across disciplines and campuses;
4. Are done in quick-cycle, allowing researchers to showcase findings to practitioners and others within six months of project launch.

The Education Innovation Research Network is a partnership between EduvateRI, The College & University Research Collaborative and the Rhode Island Office of Innovation.

- Questions?
- What can you share from your own work, experience, or plans?
- What haven’t we thought of or covered?

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