

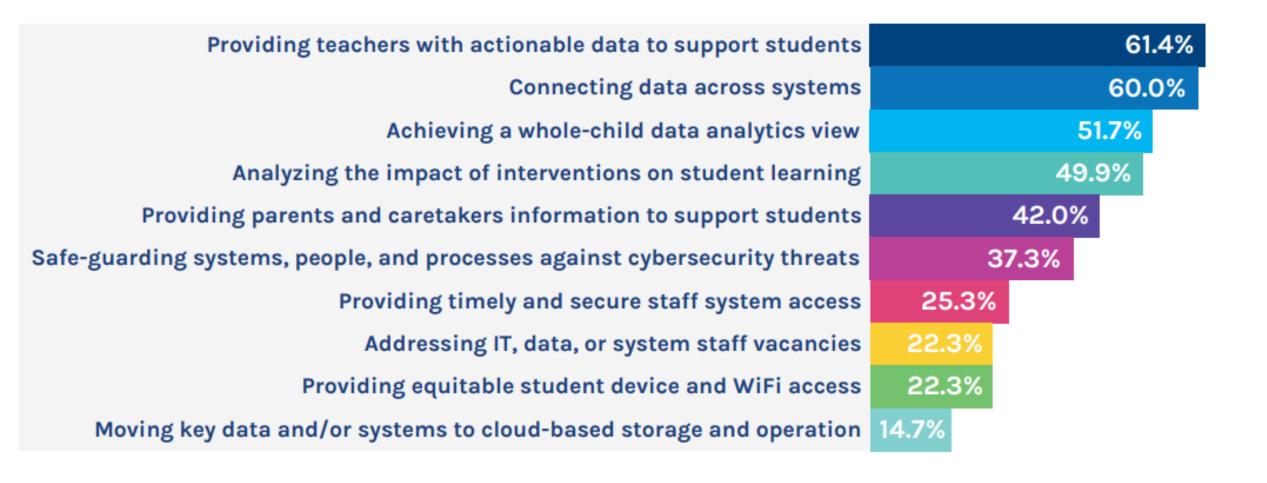


DATA MODERNIZATION PROJECT OVERVIEW

Sarah Singer, PowerSchool Anna Hoerner, OPI



Top 2023 District Education Technology Priorities



How aware are you of the OPI Data Modernization Project?



1. Huh? What data modernization project?



2. I've heard of it...but I don't know too much about it.



3. I'm up-to-date. I have a good sense of the key details.

Data Modernization – The What

- ☐ The 2021 Legislature appropriated funds for OPI to modernize data systems.
- ☐ One part of the project will eventually replace the GEMS dashboarding tools currently being used.
- ☐ OPI purchased interactive dashboards through PowerSchool to be used by district staff.
- ☐ Some dashboards will be available to the public.



Benefits of Data Modernization



Data Insights to Support Student Success

For educators, policy-makers and families to inform decision making, investments and student success



Time Savings

- Data centralization saves time for technical staff.
- Streamlined processes for some districts when submitting required data to the state



Security

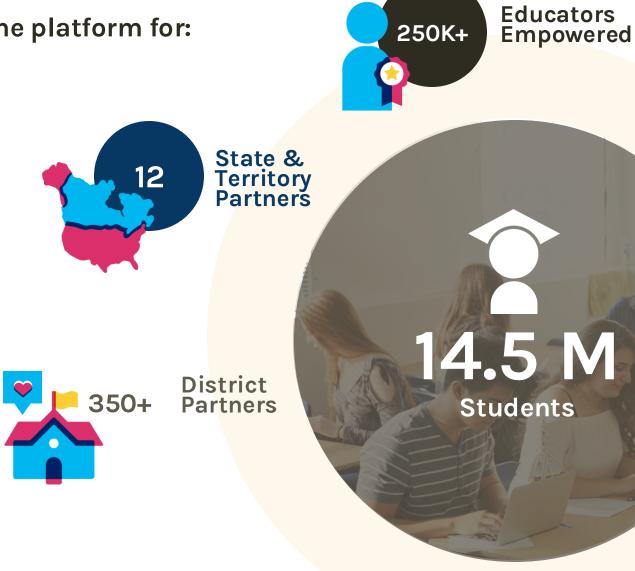
- Modern systems with industry-leading security.
- Sustainable solutions that requires fewer specialized resources to maintain.



Analytics & Insights Platform

Schools, Districts, and States Depend on the platform for:

- Student learning and growth
- Addressing chronic absenteeism
- Providing data to the community
- Early warning and intervention
- College and career readiness
- Talent or HR related analytics
- Supporting reading initiatives



6

TRUE OR FALSE



Schools will be required to use a particular Student Information System?





Why Change Now?



Data Security a Stronger Need than Ever Increasing data breaches nationally; need to replace outdated systems with modern security.

Seek Greater Efficiency

New technology can be leveraged to improve efficiency. Older systems increasingly become costlier to maintain with each passing year.

Legacy Systems Difficult to Sustain Significant number of employees with legacy system knowledge will be eligible for retirement in the next 1-5 years.

Supporting Students

Data access and insights are a key ingredient to supporting student success.

Who Benefits?

Families & Communities



Districts & Schools



Policymakers & Influencers



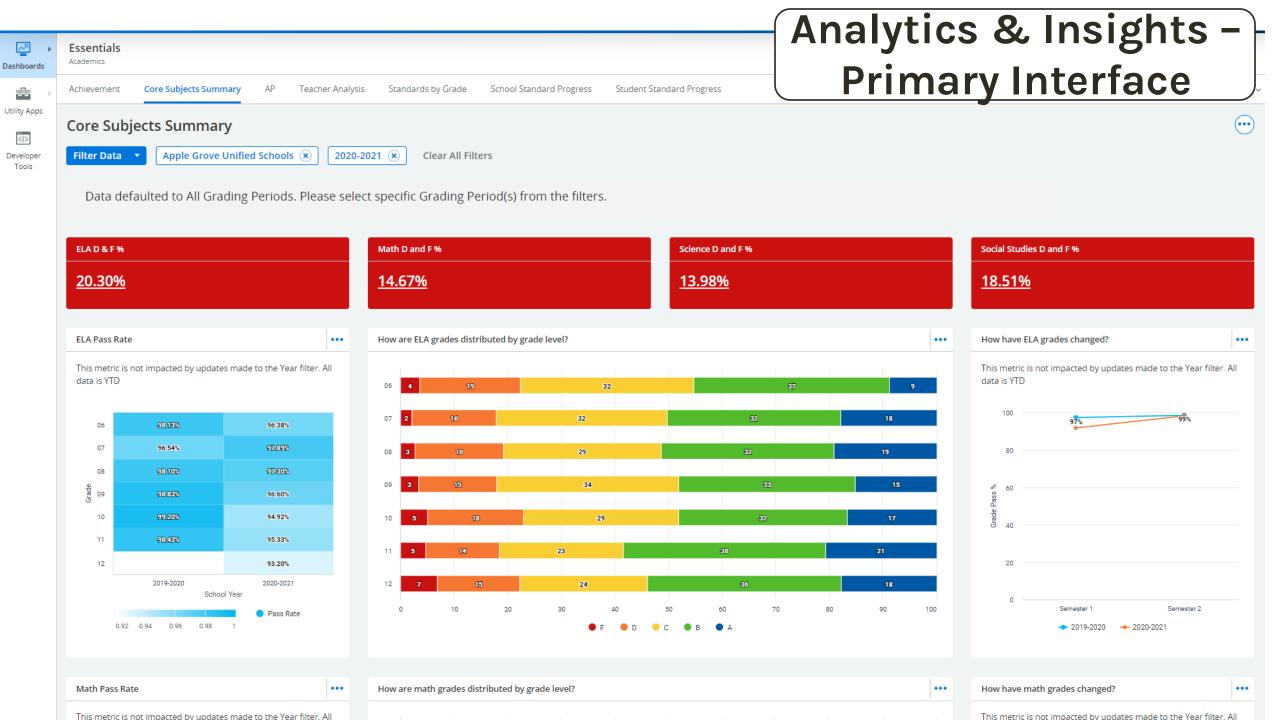
- How can I learn more about my child's school?
- How is my child's classroom, school, district performing?
- What do I need to know to make the best educational decisions for my child?

- How are we doing compared to our goals?
- Are our students showing growth over time?
- How can I adjust & personalize instruction for my students?
- Where can we improve?
- ❖ What can we celebrate?
- Am I allocating resources effectively?

- How do we know if our decisions are making an impact?
- ❖ What should we do next?
- Are we setting the right goals and policies to support our students?
- Are we allocating funding and resources to the right initiatives?

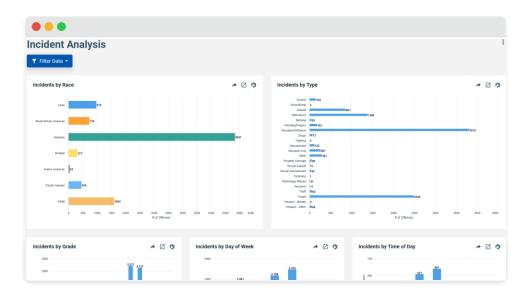


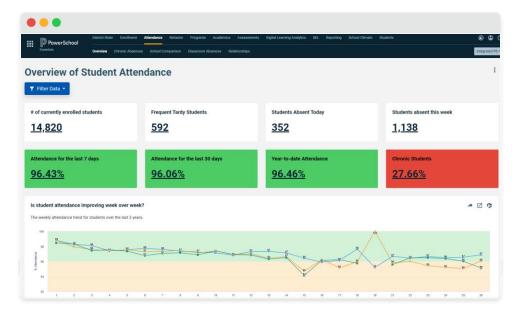


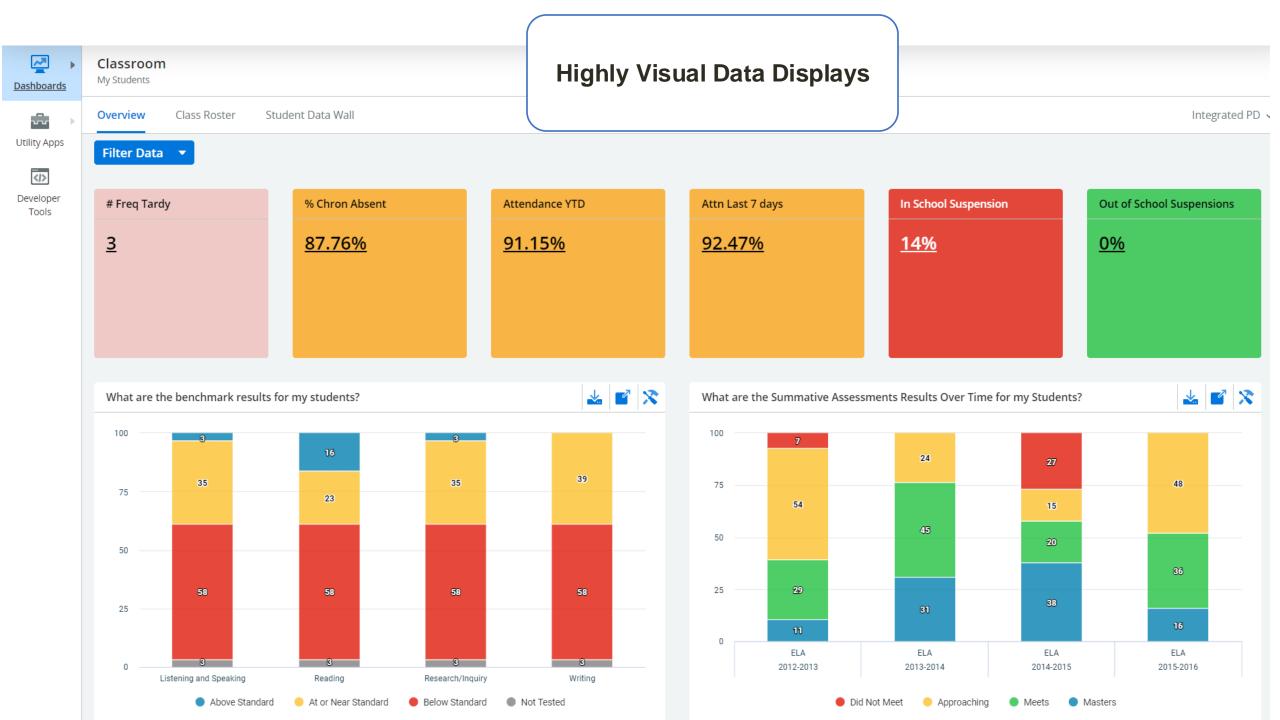


Pre-built Metrics as well as the Ability to Customize

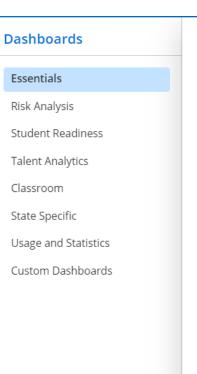
- Large library of pre-built dashboards and metrics are included to get you up and running quickly and efficiently
- From there, districts can create and modify the solution to meet their individualized needs
 - Create your own dashboards/metrics
 - Rearrange navigation
 - Set thresholds
 - Change colors
 - And more

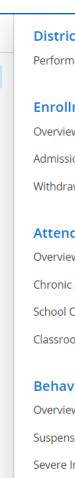










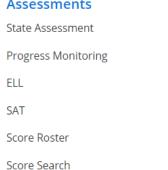


District-State
Performance Indicato
Enrollment
Overview
Admissions
Withdrawals
Attendance
Overview
Chronic Absences
School Comparison
Classroom Absences
Behavior
Overview
Suspension Usage
Severe Incidents

Behavior
Overview
Suspension Usage
Severe Incidents
Analysis
Ethnicity Analysis

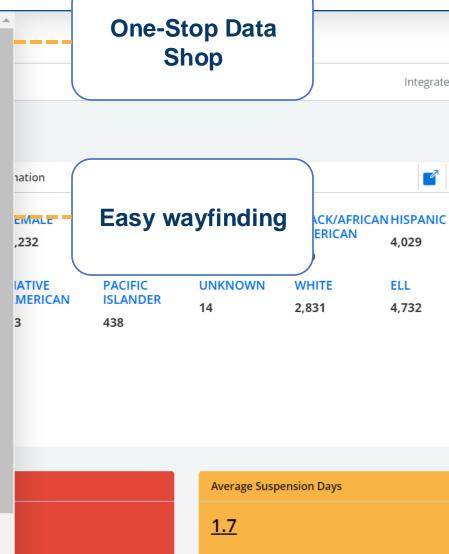
Digital Learning ate **Programs Analytics** Programs Overview Indicators Access Programs Student List Engagement Special Education (Advanced) Outcomes ELL Scheduling **Academics Social Emotional** Learning (add-on) Achievement ce Teacher Analysis

Core Subjects Summary Academic Skills ΑP Assessments



Social Emotional Learning Results Social Emotional Learning School Comparison Focus Students Reporting Attendance and Behavior Absence Reduction (PowerBI Example) Reporting Listing **Students**

Digital Data Wall







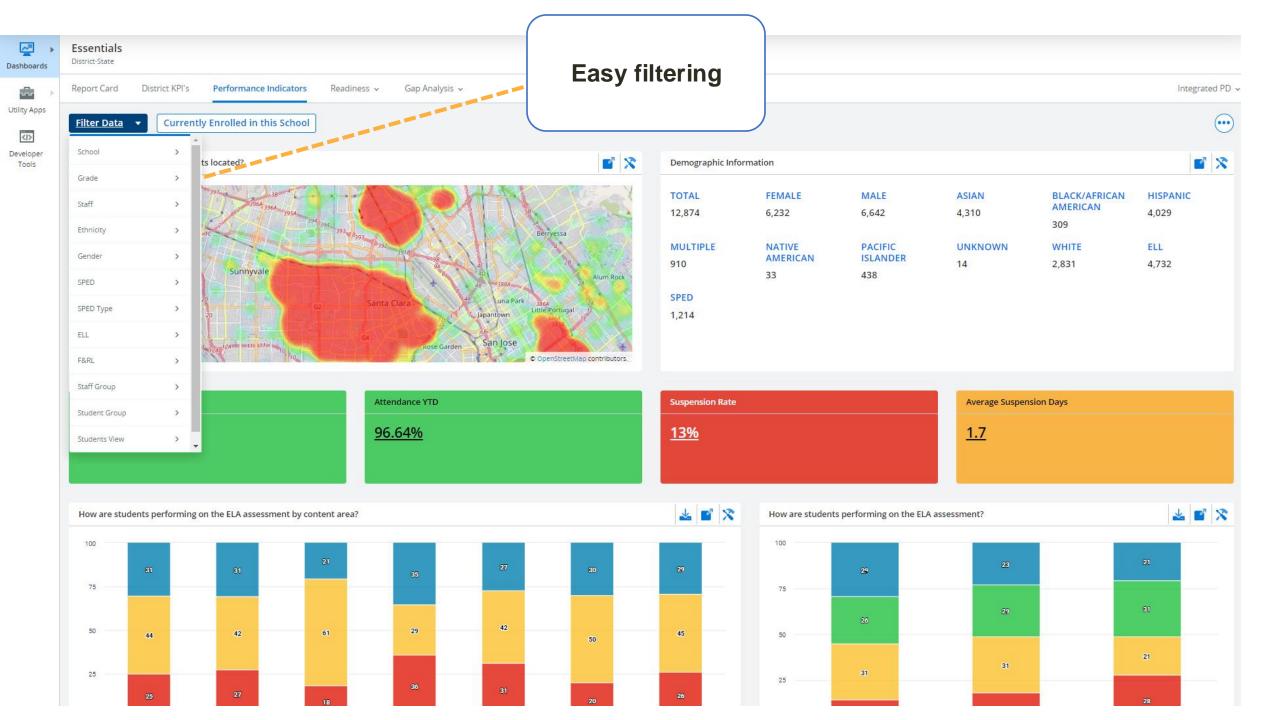
Integrated PD 🗸

4,029

ELL

4,732

(•••



Longitudinal Analysis





Performance Indicators Integrated PD v



Each visualization is drillable to the student or school level (assuming appropriate permissions)

Actions •

Total of 1069 row(s) with a row limit of 5000

РНОТО	≡ STUDI	NT ID	=	NAME ↑	=	GRADE	=	RACE	≡	GENDER	≡	ELL	≡	FRL	=	HOMELESS	≡	504	≡	SPED	=	YEAR	=	TEST PERFORMANCE
	<u>15879</u>	35936		ABELLA, Maurice E.		08		<u>Hispanic</u>		Male		<u>Yes</u>		<u>Paid</u>		No		No		<u>Yes</u>		2015-	2016	Did Not Meet
	20560	<u>81735</u>		Abonce, Kenya S.		03		<u>Hispanic</u>		<u>Female</u>		<u>Yes</u>		Paid		No		No		No		2015-	2016	Did Not Meet
B	91497	989		Abundiz, Tatiana A.		12		<u>White</u>		<u>Female</u>		<u>Yes</u>		<u>Paid</u>		<u>No</u>		No		No		2015-	2016	Did Not Meet
	<u>18816</u>	<u>95885</u>		Acuna, Jenna		<u>02</u>		<u>White</u>		<u>Female</u>		<u>Yes</u>		<u>Paid</u>		<u>No</u>		No		No		2015-	2016	Did Not Meet
	<u>15837</u>	<u>85455</u>		Adan, Rex		<u>07</u>		<u>Hispanic</u>		<u>Male</u>		<u>Yes</u>		<u>Paid</u>		<u>No</u>		No		<u>Yes</u>		2015-	2016	Did Not Meet
	<u>39879</u>	<u>9701</u>		Adkins, Quincy M.		<u>06</u>		<u>Hispanic</u>		<u>Male</u>		<u>Yes</u>		Free		<u>No</u>		<u>No</u>		No		2015-	2016	<u>Did Not Meet</u>
	<u>50858</u>	6109		AGUIAR , Kristina		<u>01</u>		<u>Hispanic</u>		<u>Female</u>		No		<u>Paid</u>		<u>No</u>		<u>No</u>		<u>No</u>		2015-	2016	<u>Did Not Meet</u>
(b)	<u>18819</u>	06183		Aguilar, Germain B.		<u>02</u>		<u>Hispanic</u>		<u>Male</u>		<u>Yes</u>		Free		<u>No</u>		No		No		2015-	2016	<u>Did Not Meet</u>
	<u>10117</u>	76363		Aguilar, MARTHA		<u>02</u>		<u>White</u>		<u>Female</u>		<u>Yes</u>		<u>Paid</u>		<u>No</u>		<u>No</u>		<u>No</u>		2015-	2016	<u>Did Not Meet</u>





CURRENT PROJECT STATUS



OPI DATA MODERNIZATION PROJECT OVERVIEW

OPI Data Modernization Status and Overview Report

Activities

- Ongoing data replication from Infinite Campus State Edition to PowerSchool's Connected Intelligence.
- OPI staff continue to meet with the steering committee of key district staff and receive valuable feedback on the project and data collections.
- OPI staff presented to the PowerSchool User Group on June 18 to provide updates on the project.
- Identified another data source (GEMS) for replication into Connected Intelligence through a VPN. GEMS replication is being completed.
- OPI is an active participant in the Education and Workforce Data Governing Committee and has been attending the ongoing meetings of the three working groups.
- Analysis is in progress for the additional modules of Analytics & Insights (Student Readiness, Risk Analysis, and Community Engagement).
- OPI provided a demo of the GEMS system to PowerSchool to assess current functionality and how Community Engagement will proceed. OPI also sent out a <u>survey on GEMS</u> to schools on June 28.
- Identifying and testing possible security solutions for school user access to the Analytics & Insights system.





Data Modernization Timeline

Phase I

Phase II

Phase III

Phase IV

Phase V

Aug '23-Sep '23

Systems Assessment Consulting Target: Nov '24

Connected

Intelligence,
Analytics &
Insights
Implementation,
Training, Rollout

Target: TBD

Connected
Intelligence GEMS
Replication and
Community
Engagement
Implementation

Target: TBD

Analytics &
Insights Additional
Module
Implementation
and Customization

Target: TBD

Connected
Intelligence
Replication and
State Reporting
Enhancement

PHASE I COMPLETE

Category (Milestone)	Task	Progress Update			
	Delivery of Draft Assessment Output	Completed			
Systems Assessment Consulting (1-3)	Montana Review and Feedback	Completed			
	Deliverable Updates and Final Approval	Completed			

Phase I was completed by September 22, 2023. It encompassed elements from project milestones 1-3.

PHASE II & III PROGRESS

Category (Milestone)	Task	Progress Update
	OPI CI Onboarding, including Platform Setup and Configuration	Completed
Connected Intelligence (4a)	OPI CI Security and Governance Implementation	Completed
	OPI CI Technical Training	Completed
	Finalize and share Data Dictionary/list of approved data elements	Completed
Connected Intelligence: Infinite Campus (IC) State Edition	ODBC Setup for IC State Edition	Completed
Integration (4a)	Initial replication of AIM and AIM Datamart Data	Completed
	Ongoing Replication of AIM and AIM Datamart Data	Completed
	Complete Custom Connector Analysis	Completed
Analysian and Incidate (Ea)	Build Custom Connector	In Progress
Analytics and Insights (5a)	Complete Analytics and Insights Implementation	In Progress
	Complete Analytics and Insights Technical Training	Not Started
	Create Training Plan	In Progress
Customer Education (AIE)	State-level Analytics and Insights End User Training	Not Started
Customer Education (4/5)	District-level Analytics and Insights End User Training	Not Started
	Building-level Analytics and Insights End User Training	Not Started
Phone III (4.5)	Connected Intelligence: Replication of GEMS	In Progress
Phase III (4-5)	Analytics and Insights: Community Engagement	In Progress

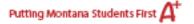


UPCOMING PHASES

Category (Milestone)		Progress Update
	Analytics and Insights Risk Analysis Implementation	Not Started
Phase IV (5)	Analytics and Insights Student Readiness Implementation	Not Started
	Analytics and Insights Customizations	Not Started
	Replicate up to 5 additional data sources	In Progress
	Connected Intelligence: PS SIS Integration Analysis	Completed
	Connected Intelligence: PS SIS Custom Connector Build	Not Started/On Hold
Phase V (4)	Connected Intelligence: PS SIS Integration Hosted Districts/Replicate Data into CI	Not Started
	Connected Intelligence: Set up VPNs for On-Prem Districts	In Progress
	Connected Intelligence: State Reporting Enhancement	Not Started
Final Sign Off (6-7)	Complete Post-Deployment and Final Sign Off	Not Started

The Data Modernization project has a total of seven milestones. To get a more detailed look at the particular steps in each of the milestones, these were further broken down and organized into phases, recognizing that steps from different milestones may be co-occurring in the same phase. These phase items reflect what has been completed and items that are currently in progress or upcoming.







QUESTIONS



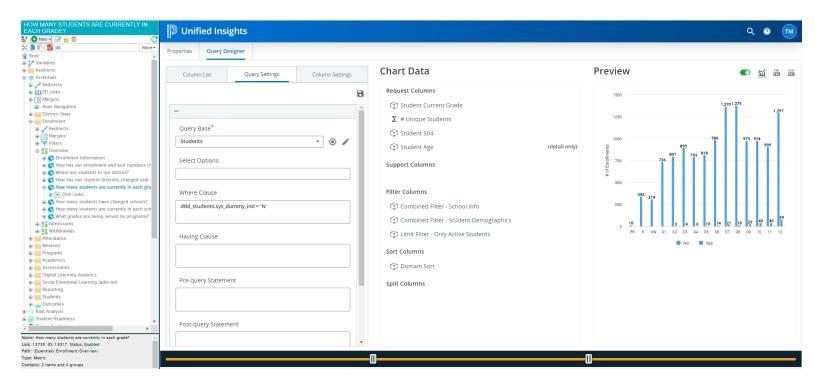


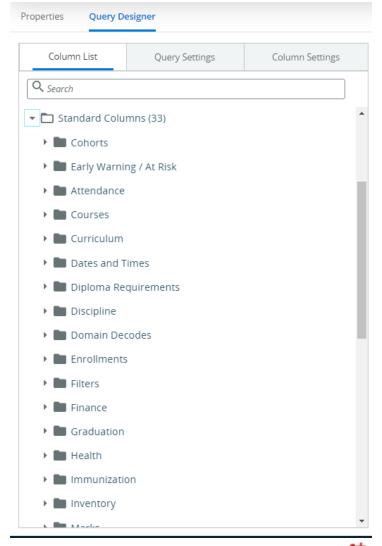






Developer Tools to Configure Dashboards to Your Local Needs







About the Data Modernization Solution

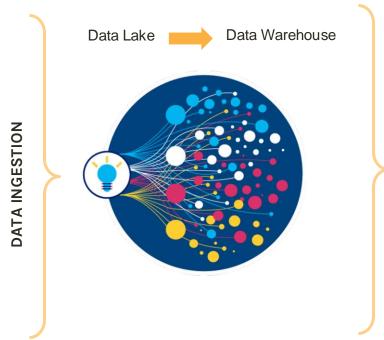
OPI Data Systems

Infinite Campus SIS

PowerSchool SIS

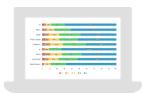
National and State
Assessments

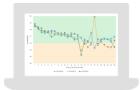
Other data sources as defined



Secure and public facing dashboards







Benefits

- Ready-made for education and government agencies (i.e. commercially off the shelf solution by PowerSchool)
- Built to be configurable and adaptable to meet the needs of Montana
- Robust security
- Continuous investment and product innovation to meet evolving needs

Note: Connected Intelligence K-12 and Analytics and Insights will enable districts to continue using their current Student Information System, even if it is not provided through PowerSchool.

