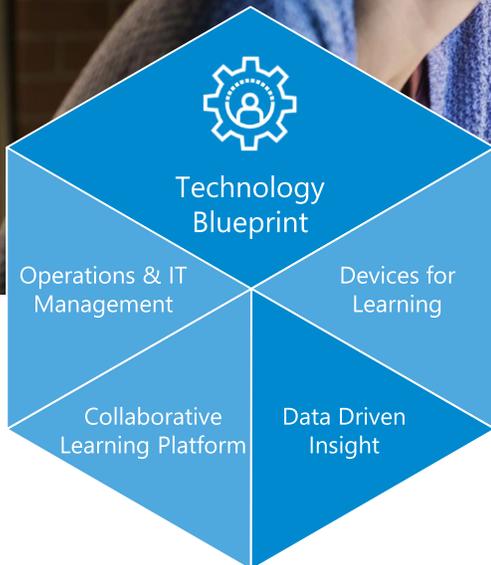


# Data Driven Insight



Data Driven Insight is about using evidence-based decision making to transform student learning and your education system. There's no need to turn everyone into data scientists—simply offer easy-to-use tools so they can gauge progress and improve.

The [Microsoft K – 12 Education Transformation Framework](#) is an effective, flexible platform for education transformation. To develop it, we combed the latest research and consulted hundreds of academics, experts and policy makers. We distilled the key insights into a single powerful framework.

[Technology Blueprint](#) provides a strong foundation: a reliable, responsive and data-driven technology environment. It empowers teachers, learners and administrators to achieve more every day with intuitive devices. And it gives everyone easy access to the data they need to gauge and improve academic and administrative performance.



## What is Data Driven Insight?

Education data is the key to the question: how do we know? Answering this question holistically for each individual and group in a school can be a challenge when data comes from a multitude of sources that are often not connected. The goal of data driven insights is to accelerate action based on current trends and indicators that will improve outcomes, increase success, and drive smart choices. This insight can inform capacity-building decisions, technology and other investments, including a focus on the extent to which interventions are working and how they can be more effective. Integrated data plus advanced learning analytics empower educators to personalize learning experiences and focus on supporting each student based on individual strengths and needs.

Effective solutions integrate disparate data on teaching, learning and the organization into a coherent model. This model can provide flexible visualizations of data through a single application which can be secured by data access control, so each stakeholder sees just the data they should see.

*"With Azure Machine Learning, we proved that we have the right tool to get us where we want to go in terms of predicting student success."<sup>1</sup>*

**Shaun Taylor**  
Tacoma Public Schools

## Guiding Questions:

- How can whole child growth improve with data driven insights?
- How can data driven insights transform the role of an educator?
- How can data driven insights empower leaders to guide an agile learning organization?

## Expected Outcomes

A high performing education system closely tracks the progress of students over time in ways that directly inform teaching, and identifies the most effective approaches so they can be scaled. Adapting and scaling effectiveness requires continuous access to current data and analytics that enable decisions. ([Grattan](#), 2017)

Data driven insights include:

- Targeted intervention and educational materials by tailoring teaching and resources to each student
- Student performance visibility provides immediate visibility into which students could learn faster or need specific support
- Completion tracking by monitoring student progress toward goals

*"We've armed our teachers with a tool that's going to allow them to make the most informed decisions for their students each and every day, based upon all the information that's available. Our teachers and principals are seeing what real-time data can do to prepare our students."*<sup>2</sup>

**Dr. Jamie Wilson**

Superintendent, Denton ISD

## Technology as an Enabler

Microsoft's secure and stable Azure cloud data solutions and services are designed for education systems to consolidate, analyze and visualize relevant data from their databases, data files and 3<sup>rd</sup> party applications. Flexible data and analytics reports are made beautiful and actionable using Power BI. Staff members can access these reports on any device.

Our global ecosystem of data and analytics partners have the deepest expertise in data architecture, data science and the education industry. They are experienced in designing advanced analytic solutions from proof-of-concept through to operationalization.

## Further Reading

**Tacoma Public Schools increase graduation rates with analytics.**

Read full story: <https://aka.ms/Ekbj63>.

**Fresno Unified, the Futures Challenge, and 21C Learning Design.**

Read full story: <https://aka.ms/fresno>.