

BUSINESS BRIEF

Education
Learning and Teaching



Personalized Learning for Student Success

Helping educators personalize learning and engage learners with the optimal use of technology

“Our classrooms are innovative, interactive, learner-centered and relevant”²

Marinathe Williams
Director of Technology
River Dell Regional School District

Industry Strategic Challenges

Schools around the world face the challenge of creating personalized and relevant learning experiences for students, while preparing them with modern skills to meet the demands of the 21st century workforce. In order to address these challenges, schools are designing robust learning environments, enabled with technology for learning and teaching and supported with an IT engine that gives students and educators secure access to the internet, cloud, data, apps, digital content, learning platforms, analytics, and more. Education experts consistently point to a low student to computer ratio - where every student has access to a device and the Internet - as the optimal environment for student success. More broadly, education technology fosters student engagement, helps prepare students for the workforce and extends learning beyond the classroom walls.

The Houston Independent School District (HISD) is about to enter the third phase of its phenomenally successful PowerUp initiative, named for its ability to power up all 282 schools in the district and empower teachers to personalize a rich learning environment filled with project-based learning, 21st-century skills

development and coursework aligned to individual aptitudes and interests.¹ To realize the full potential of education technology, it is essential to select the right devices and build a sustainable infrastructure. This involves addressing several opportunities:

Integration with legacy technology

Most school districts recognize the benefits of learning with technology, but worry that adopting this approach will require scrapping the technology investments they have made to date. They need solutions that are both compatible with their existing technologies and flexible enough to migrate gradually to a robust, personalized approach to learning and teaching.

Total Cost of Ownership (TCO)

Assessing TCO means looking beyond the initial cost of the devices that are being deployed—typically the sole focus. Equally important is building or expanding a robust infrastructure to support the new or expanding edtech program, including software, digital content, digital analytic tools, curriculum, and professional learning. Also important is planning for support and resourcing to make the program sustainable for the future. To determine which solution is the right one, it is essential to take into account TOTAL cost over time. Some solutions may have



lower upfront costs but higher total overall costs in the long run than others.

Device functionality

It is important to match the features of the solution with the desired learning objectives in the classroom and not just pick the latest fad. Can students and teachers get through the day without recharging the battery? Is screen size adequate to support student tasks and digital assessments? Is it enabling collaboration sufficiently? Are touch capabilities needed? Is having a keyboard important? An appropriate mapping of needs in the classroom, requirements and the solution features needs to be done to ensure that the right solution is selected.

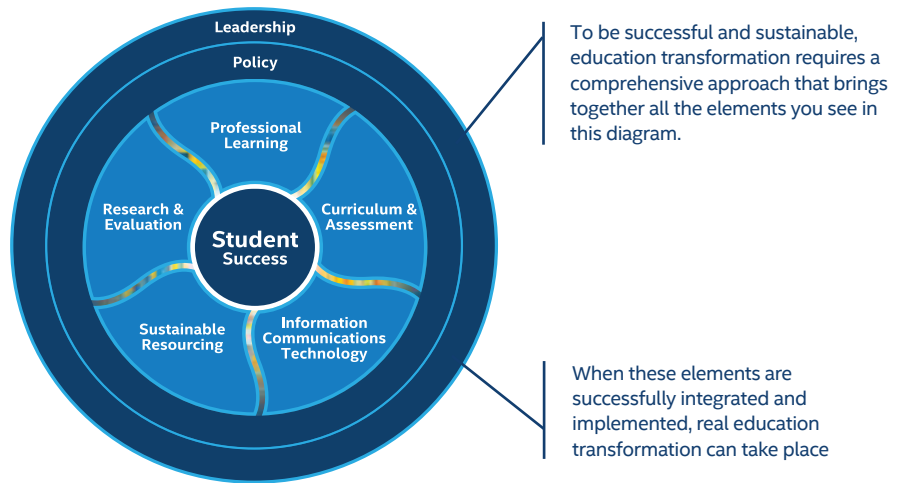
Manageability and security

The ability to protect and manage your investment in devices, as well as securing and protecting data and information, are key components to the success of technology in a school system. Manageability means ensuring that the solution integrates into the school's existing IT infrastructure and that the IT staff has the capacity to protect and secure new devices and data, keeping them up-to-date with new software and security applications.

Learning Environment

Every school has a unique approach to teaching and how they approach personalized learning. Therefore, it is critical to ensure the solution and device chosen support the teaching models and goals for the program. With the ultimate goal to improve student learning outcomes, the solution needs to have the right features and components to support these goals. Using technology to support student-centered learning requires that stakeholders collaborate and define a goal that reflects a common set of learning objectives that are personalized and project-based. The solution should be adaptable to the learning environment rather than the learning environment having to change to adapt to the device and solution.

Intel's Education Transformation Model



Teacher Professional Learning

Professional learning is the key to any edtech programs success. Educators need time and support to understand how to transform their approach to teaching with technology and integrate effectively into the curriculum.

It is important to give educators devices before the students receive them, time to plan, professional learning resources, mentors or a support network to help them keep growing in their integration of technology for learning.

Intel is committed to helping education institutions work through these challenges to determine which solution will fit their learning goals and objectives, making it possible for educators to prepare students with modern skills for success.

Business Drivers and Desired Outcomes

For students, technology for learning expands their access to resources, peers, global perspective, collaboration opportunities and a world beyond the classroom walls.

For educators, personalizing learning with the help of technology, gives them access to data for real-time assessment of student progress. Teachers can use data to deliver personalized instruction, increase student engagement and help them digitally manage their classroom.

For School Leaders, edtech helps transform the school system, empower educators, and prepare students with modern skills they will need in the workplace or higher education. It protects student data, enables online learning, and digital assessments, all driven by a smart connected IT infrastructure.

Digital Transformation and Business Innovation

Education technology initiatives will vary by school, district, school system, state, and even country, but all deployments have three key elements:

Infrastructure – A successful edtech deployment starts with secure back-end servers or for bigger deployments, a data center and networking. Intel offers many solutions to provide IT decision makers with the help and support they need to establish a secure server environment and IT backbone, including cloud services when it makes sense.

Software and content – Supporting the best learning outcomes means providing the right educational resources in the classroom. To maximize the learning benefits, students need devices that not only run seamlessly in the infrastructure with software and peripherals, but also gives them mobility and flexibility to learn anytime, anywhere.

Device – To make learning meaningful and relevant, students need the right devices, software, and apps to give them flexibility and mobility to learn in the school and beyond. Intel® powered notebooks, Chromebooks, 2 in 1s, tablets and laptops provide students with the tools to take ownership of their own learning process and collaborate with educators, peers and global resources.

Enabling Transformation

Transformed personalized learning environments increase student engagement and teacher productivity. Intel is supporting this transformation, with technologies to create an end-to-end solution that is compatible with existing infrastructures and flexible enough to support new learning models, such as online learning/blended learning, project-based learning and personalized learning. Together with partners such as Microsoft* and Google*, and through our expanded education ecosystem, Intel offers a wide variety of Intel® processors and an array of apps, devices, peripherals and form factors that give educators the ability to select tools that best fit their classrooms.

Solution Summary

The way students learn is fundamentally changing. A personalized model is replacing the one-size-fits-all classroom approach that was confined to set hours and locations. Students are collaborating, consuming and producing innovative content and gaining 21st century skills and competencies. Teachers are using digital technologies to engage students and parents with more personalized learning experiences. Intel offers its expertise and experience, with complete educational technology solutions that support personalized learning for student success.

Where to Get More Information

For more information about Intel's comprehensive edtech solutions and programs, please visit: www.intel.com/education

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¹ K-12 Blueprint. Available at: <https://www.k12blueprint.com/success-stories/going-big-texas-style-one-one-laptops>

² K-12 Blueprint. Available at: <https://www.k12blueprint.com/success-stories/lessons-learned-decade-one-one>

³ Intel® Education. *Transforming Education for the Next Generation Guide*. June 2015. <https://www-ssl.intel.com/content/www/us/en/education/solutions/transforming-education-next-generation-guide.html>

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