More than ever, information is the currency for transforming education. A longitudinal data warehouse to combine, organize, and present actionable information provides the means to educational transformation. A data warehouse is an early warning system or opportunity indicator for educators, helping them identify potential issues, and make appropriate and timely data-driven instructional decisions. It helps keep students on track for graduation and prepare them for success in an increasingly competitive world.

Northrop Grumman is a global information technology leader with deep experience in all aspects of developing and deploying effective data warehouse solutions. This expertise extends to longitudinal education data warehousing (EDW) where Northrop Grumman works with school districts to integrate data from multiple sources, including student assessment data from the Horizon Assessment System and other systems, and produce actionable data for teachers and leaders improving overall student achievement and closing the achievement gap.

Technical Challenges for EDW
- Connect with existing educational systems to bring together data – from student and teacher information, student assessment, instructional programs, disciplinary actions, etc.
- Support data integration for timely, accurate and actionable information
- Integrate existing databases to consolidate data for reporting
- Provide a flexible and open architecture that balances today's demands by meeting data requirements for deep data analysis, ad hoc queries, and pre-defined reports while providing the scalability to meet tomorrow's needs.

Cultural Challenges
- Change management
- Iterative approach

Developing a performance-based culture Solution
Technology is a catalyst to organizing student and other data into useful information. There is an overwhelming amount of data available to track, be it absenteeism, discipline issues, participation in extracurricular
activities, etc. Northrop Grumman has the technology expertise to automate the collection of data and present it in a clear and relevant way. An Education Data Warehouse from Northrop Grumman provides the dashboard metrics needed for timely, deep visibility into student and teacher performance.

Northrop Grumman is known for its technology know-how, but with that comes experience and dedication to providing first-class solutions for K-12 and a culture of teaming with our customers. We work with districts around the country to understand and deliver solutions to their toughest challenges. For example, we began a partnership in 2006 with one of the nation’s largest school districts to deliver an assessment tool they could integrate into a comprehensive and fully integrated instructional system. The integrated solution, coupled with the hard work and commitment from teachers, has helped many of its schools close the achievement gap, improve student learning, and build teacher capacity. The solution was also referenced in the U.S. Department of Education’s National Educational Technology Plan 2010, Transforming American Education: Learning Powered by Technology as an example of innovative technology.

The Horizon Series

The Horizon Series from Northrop Grumman is boosting student and teacher performance around the country. Use the Horizon Assessment System, complete with cutting-edge technology and a highly flexible, content-neutral platform, for delivering assessments of any kind – including project-based. And gain immediate feedback in the classroom to boost student learning and build teacher capacity. Use the Horizon Teacher Evaluation system to attract, retain, and develop great teachers based on current reform standards. Use the Horizon Data Warehouse to track longitudinal metrics for better data-driven decision making. Use these applications together for an integrated solution that empowers schools and districts with the data they need to drive effective instruction and student achievement.

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