

Project RED: Revolutionizing Education

Intel Visionary Conference

April 16, 2010

Washington, DC



- 2010 -

Education Hits the Perfect Storm

Pressure for Results Increasing

Finances Have Hit the Cliff

Technology to the Rescue!

Project RED -- Who

- Project RED Team
 - One-to-One Institute, a nonprofit focused on professional learning in technology
 - The Greaves Group and The Hayes Connection, authors of the America's Digital Schools series
 - Peterson Public Sector Consulting, systems and organizational school consultant
- Supported by: SETDA, CoSN, ISTE, SIIA, NSBA, AASA, AESA and ASBO
- Sponsored by: Intel, Apple, Pearson, Qwest, and eChalk

Project RED is Unique

- The only national study that:
 - Focuses on the future – Technology rich environments
 - Relates 11 major outcomes to 20 categories of implementation variables
- Answers the question...
 - How to do more with less
 - Caveats – no causality – self reported – as you'll see, tech is one of many contributors

Key Messages

**Ubiquitous Computing (1:1) Beats
Traditional (1:2 or greater)**

**Implementation Practices Trump
Student-Computer Ratios**

Preliminary Findings. ©2009, 2010 Project RED: One-to-One Institute,
The Greaves Group, The Hayes Connection, Peterson Public Sector
Consulting



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Research Underpinnings

- 9 Ph.D.s specializing in education research methodology participated in multiple project reviews
- Focused on reliably-worded questions and responses
- Substantial resources devoted to obtaining a response rate of over 1,000 completed surveys.
- Respondents
 - Building principals (55%)
 - Assistant principals (5%)
 - Building technology or instructional coordinators (25%)
 - District technology coordinators (~10%)
 - Superintendents (~5%)

It Takes More Than Technology...

Project RED success depends on

- New federal and state education policies and legislation
- Implementation of identified success factors
- Strong leadership at all levels – Teachers to Governors to President
- Teachers transforming their classrooms
- Appropriate technology

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Productivity & Project RED

Savings can be realized from non-instructional areas, such as copy machine costs. The typical high school spends more than \$100,000/year. If costs were reduced by 50%, the savings could exceed some states' technology budgets.



In Sync with USDOE

“We are now, however, at an inflection point for a much bolder transformation of education powered by technology.

This revolutionary opportunity for change is driven by the continuing push of emerging technology and the pull of the critical national need to radically improve our education system.”

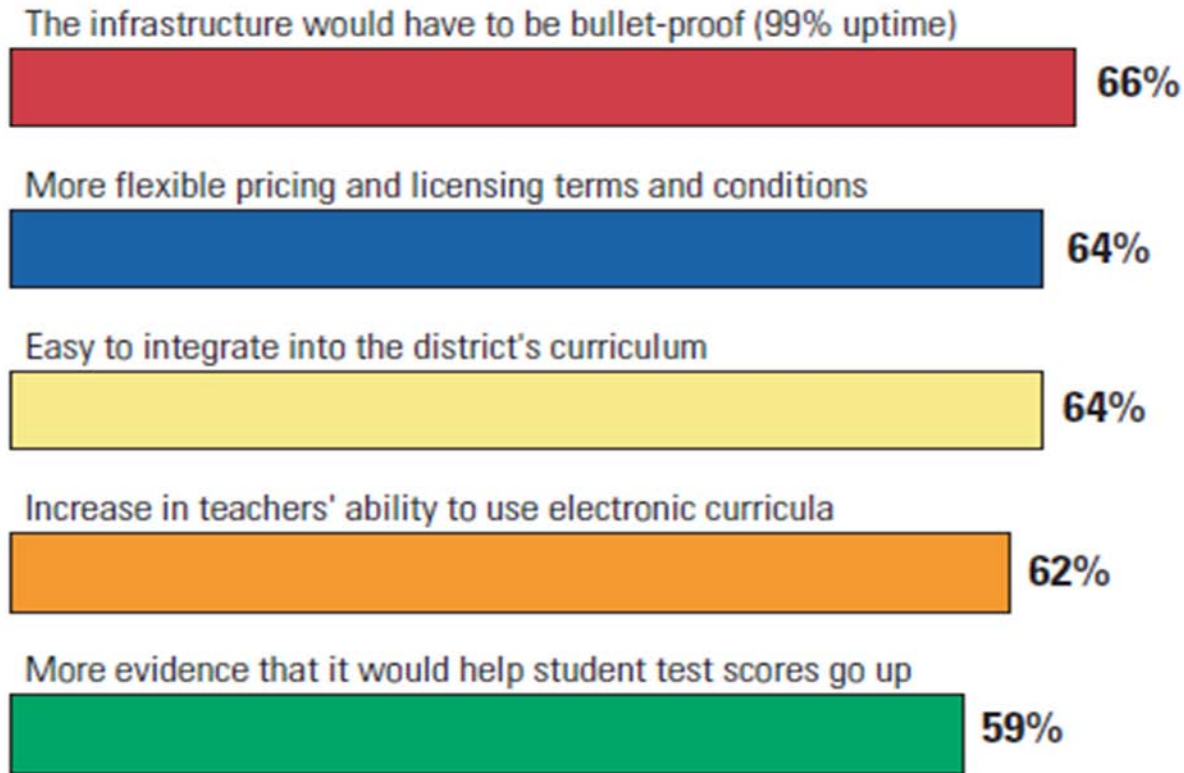
National Ed Tech Plan 2010

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Going Digital-What's Important



Percentage of Curriculum Directors Responding "Extremely Important"

Source: America's Digital Schools 2008
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The Greaves Group,
The Hayes Connection

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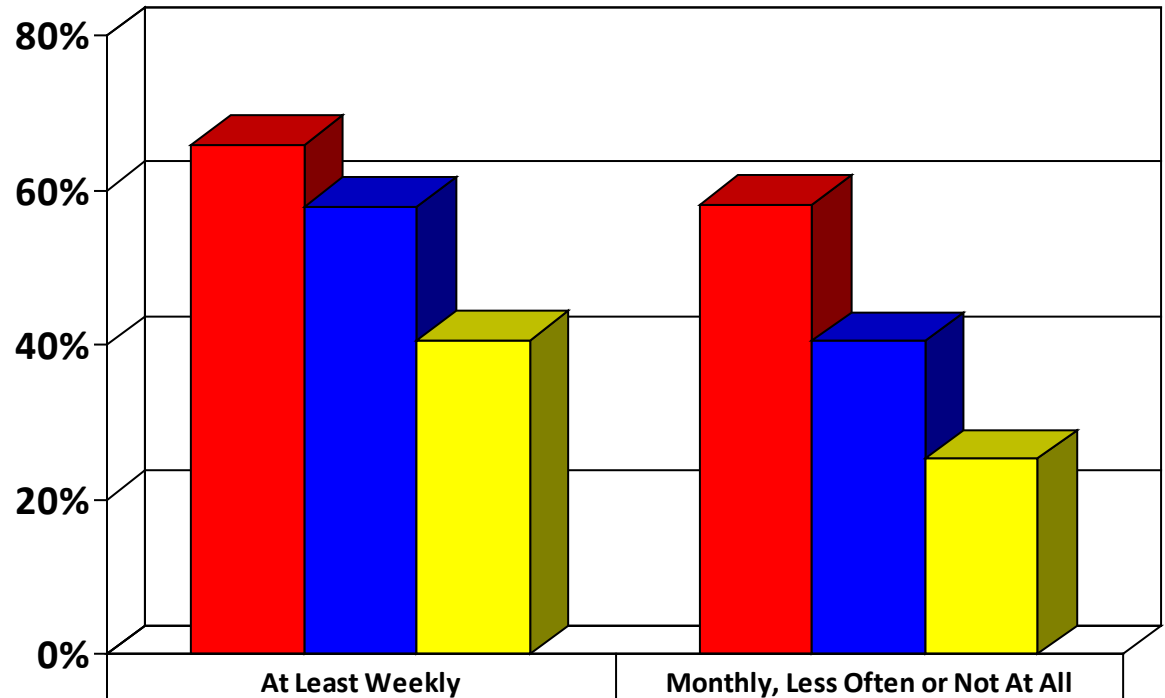
Assessment

- Schools using online formative assessment at least weekly outperform those who do not...
 - 16% delta in discipline reductions
 - 7% delta in high stakes test score increases
 - 14% delta for dropout-rate reduction
 - 12% delta in teacher attendance
 - Substantial gains were also realized in course completion rates and in plans for college attendance



Online Formative Assessment: Improvement in Learner Outcomes

Pct. of Respondents Reporting Improvement In Outcomes by Frequency of Online Formative Assessment



■ High Stakes Test Scores Improvement	66%	58%
■ Discipline Action Reduction	58%	41%
■ Dropout Rate Reduction	41%	25%

How frequently do students actually use technology for Online Formative Assessments?

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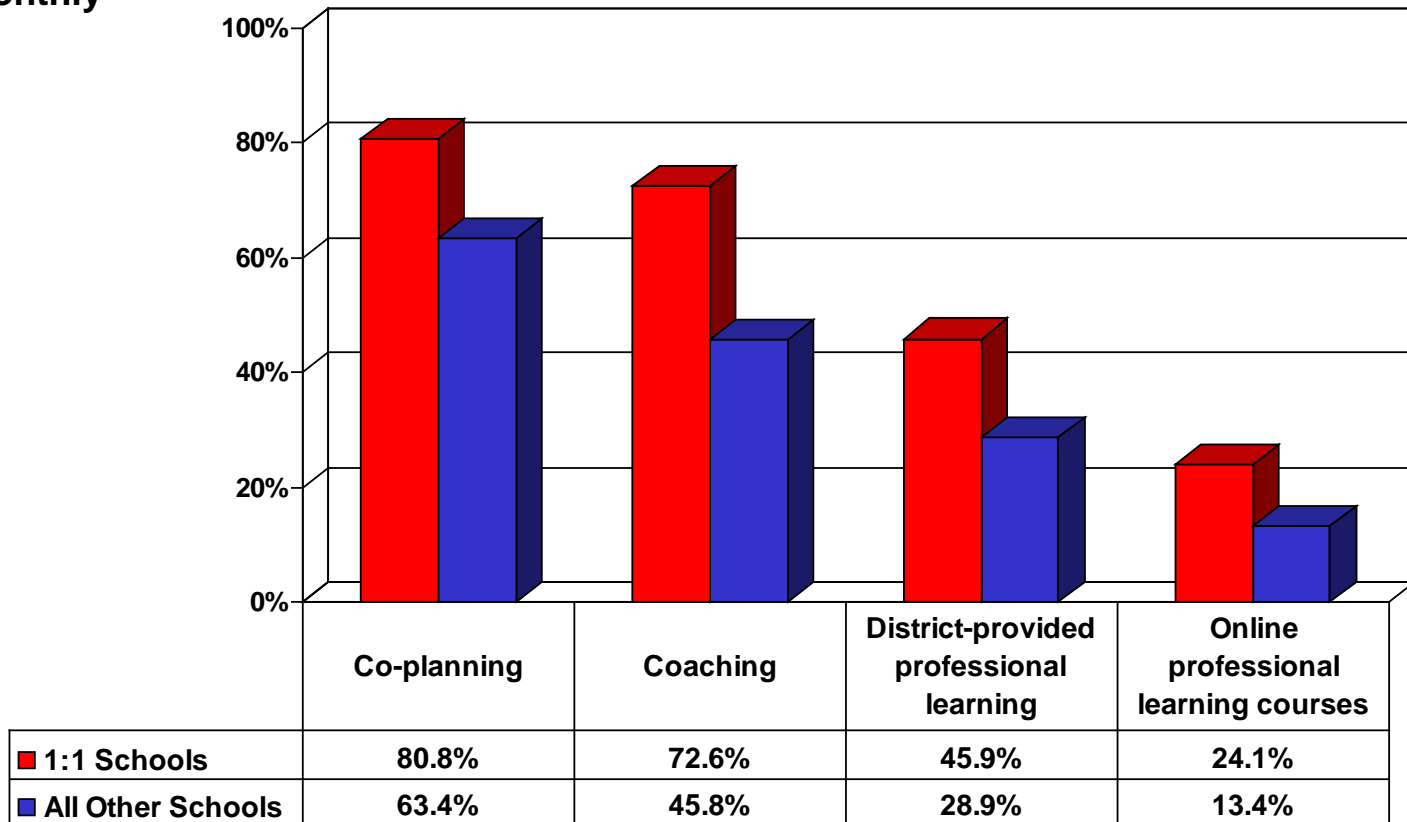
Teaching

- Teachers have more frequently-scheduled Professional Learning in technology-rich schools.
- Principals more frequently act as the instructional team leader in technology-rich schools.



Professional Learning

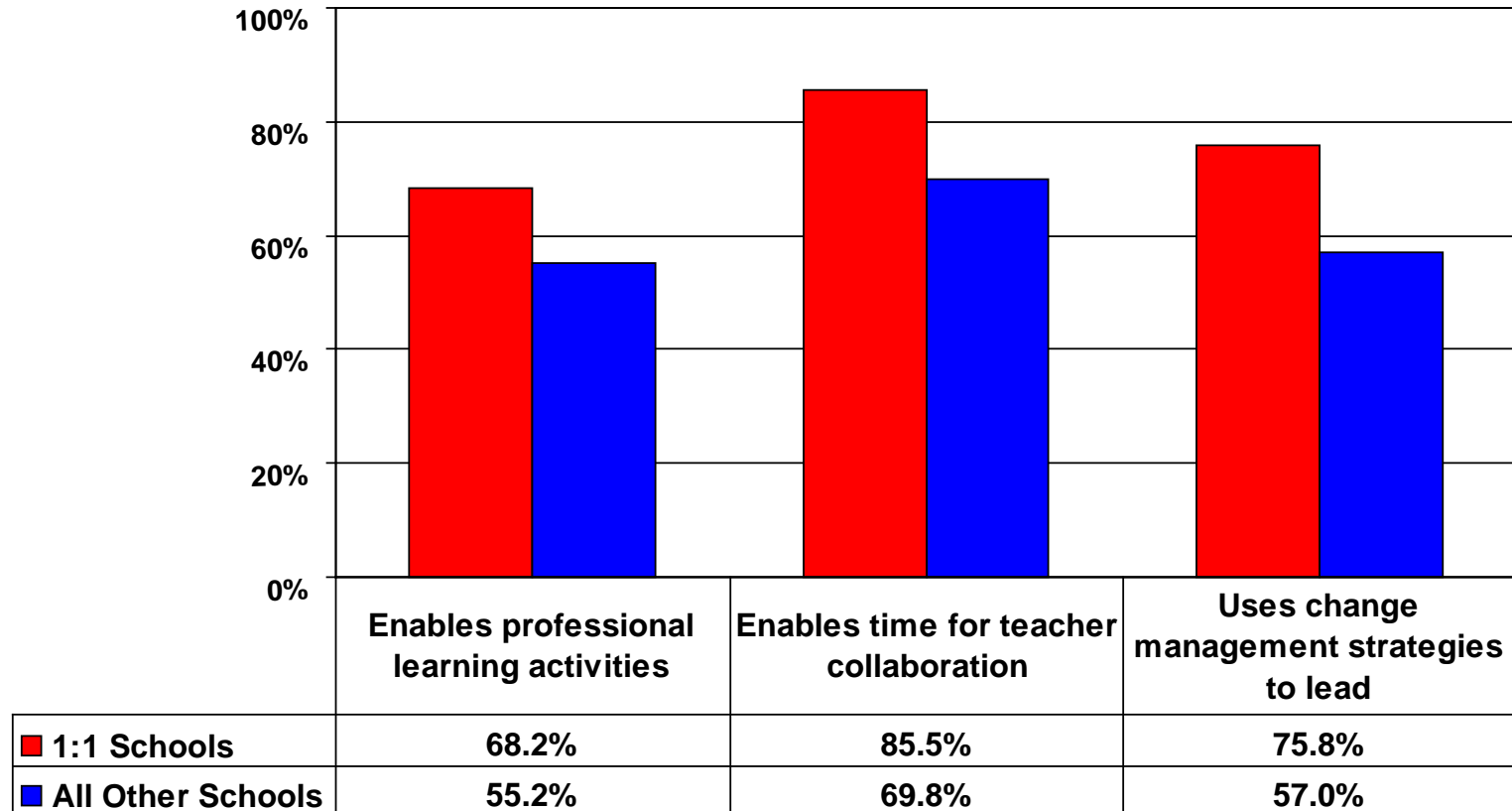
Respondents Reporting
At Least Monthly



In support of your tech program, how frequently does the typical teacher experience the following professional learning activities?

Principal's Leadership Role

Respondents Reporting
Activity At Least Monthly
By the Principal



Describe the principal's role as the leader of the technology initiative.

Learning

Respondents report major improvements due to deployment of technology.

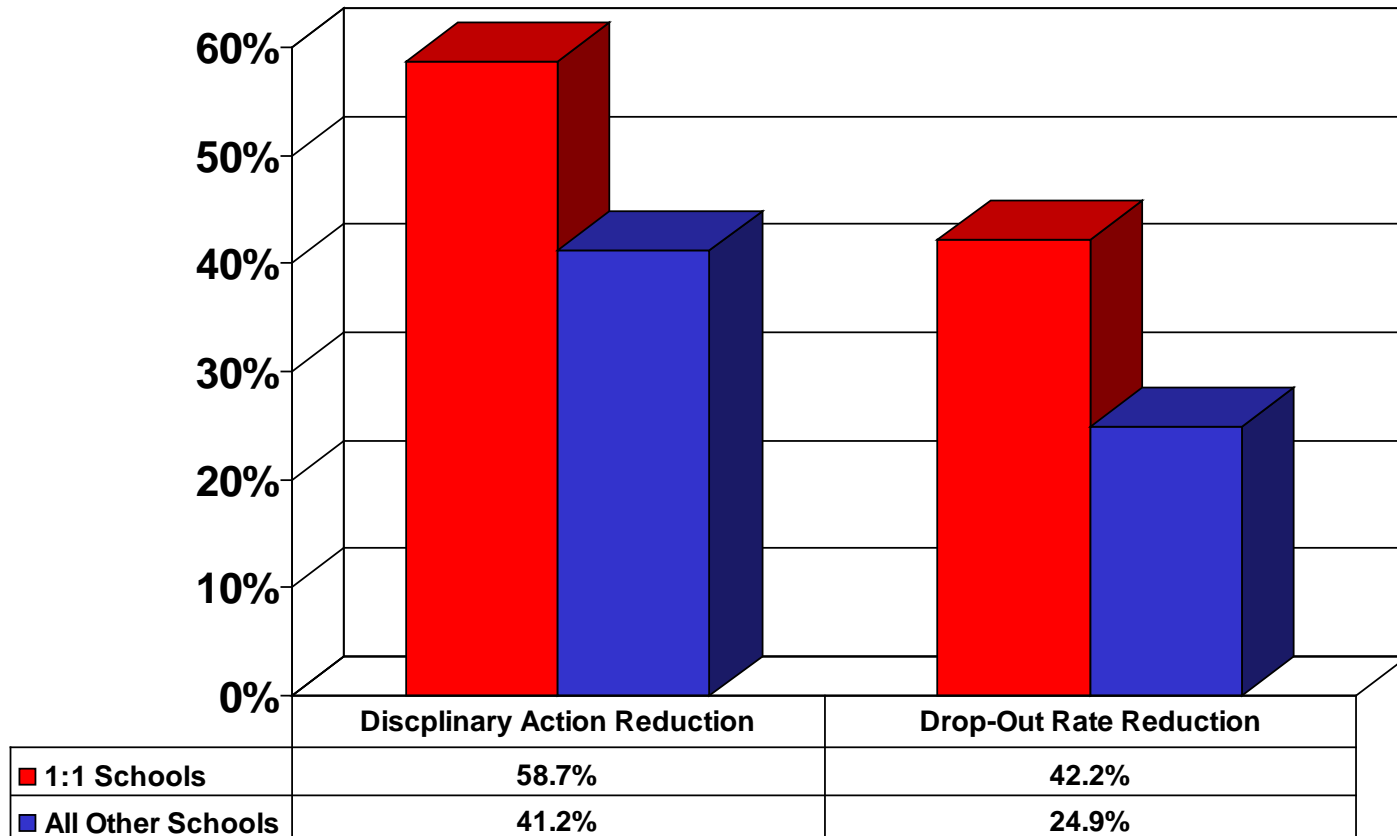
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Learner Outcomes

Pct. of Respondents reporting Improvement



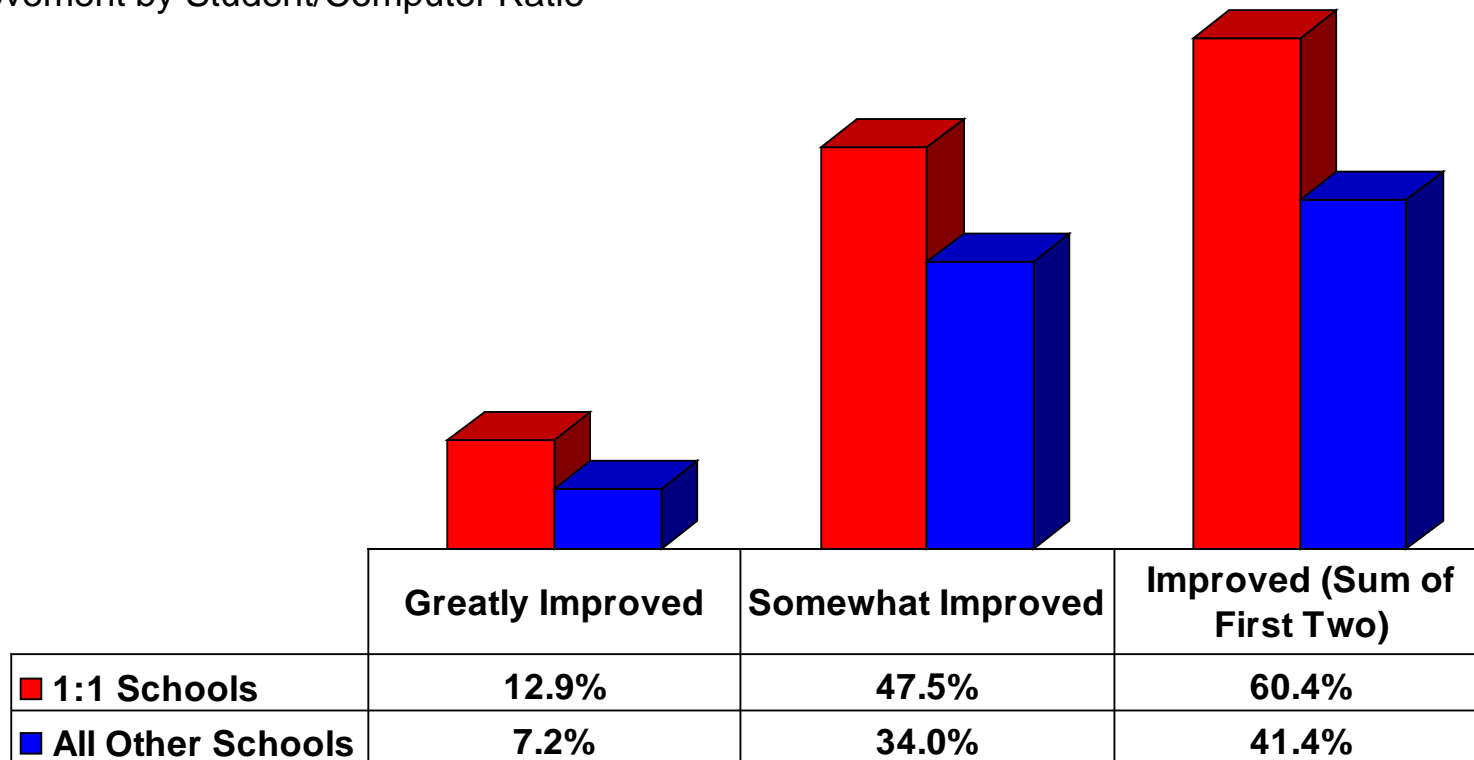
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High Stakes Test Score Improvement Attributed to Technology

Pct. of Respondents reporting
Improvement by Student/Computer Ratio



How has deployment of ubiquitous technology changed the following?

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Institute, The Greaves Group, The Hayes Connection, Peterson
Public Sector Consulting

Crucial for Success

- Leadership – at all levels
 - Planning is crucial
- Professional Learning
 - Sufficient in scope and duration to be effective
 - Preceding implementation
 - Continuous, mentoring and coaching
 - Student focus
- Comprehensive technology implementation plan
- Integrated into the classroom – (Meaningful use!)
- Wide variety of causal uses
 - LMS, formative assessment, search tools, collaboration, curriculum, tools, simulations, etc



Project RED Team

Contact us!

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