



BOARD OF SCHOOL TRUSTEES

## KELLER INDEPENDENT SCHOOL DISTRICT

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**10B. Report**

**Date: March 10, 2011**

**SUBJECT: 2011-2012 TECHNOLOGY PLAN**

**FUNCTION: Technology**

**DISTRICT KEY STRATEGIC PRIORITY:**

- **Educational Excellence; 1.4**
- **Excellence in Operational Processes and Systems; 3.4**

**FISCAL NOTE: General Operating Funds  
411 Funds  
2008 Bond Funds  
Federal E-Rate Funds**

### **Background Information:**

- The Keller ISD 2011-2012 Technology Plan is aligned to the District Strategic Plan with specific emphasis on goals 1.4, Utilize accessible technologies to transform the teaching/learning process; and 3.4, Automate processes using innovative means.
- The 2011-2012 Technology Plan meets all state and federal guidelines to be eligible for yearly e-Rate funding.
- The 2011-2012 Technology Plan was developed by the Technology Advisory Committee and aligns with the National Education Technology Plan 2010.

### **Administrative Considerations:**

The 2011-2012 Technology Plan acknowledges that technology is at the core of virtually every aspect of our daily lives and work. The plan provides a framework for District stakeholders to leverage technology to provide engaging learning experiences, assessments that measure achievement in more complete and meaningful ways, automation of processes, and scaling innovative best practices in technology use. Five goals are presented in the plan with aligned objectives and strategies; 1) Learning; 2) Assessment; 3) Teaching; 4) Infrastructure; and 5) Productivity.

- **Goal 1: Learning: Engage and Empower**

All learners will have engaging and empowering learning experiences both in and out of school that prepare them to be active, creative, knowledgeable, and ethical participants in our globally networked society.

**Objective 1.1** Revise, create, and implement standards and learning objectives using technology for all content areas that reflect 21st-century expertise and the power of technology to improve learning.

**Objective 1.2** Develop and implement learning resources that use technology to embody design principles from the learning sciences.

**Objective 1.3** Develop and implement learning resources that exploit the flexibility and power of technology to reach all learners anytime and anywhere.

- **Goal 2: Assessment: Measures What Matters**

Our education system at all levels will leverage the power of technology to measure what matters and use assessment data for continuous improvement.

**Objective 2.1** Develop and implement assessments that give students, educators, and other stakeholders timely and actionable feedback about student learning to improve achievement and instructional practices.

**Objective 2.2** Build the capacity of educators, education institutions, and developers to use technology to improve assessment materials and processes for both formative and summative uses.

**Objective 2.3** Conduct research and development that explores how embedded assessment technologies, such as simulations, collaboration environments, virtual worlds, games, and cognitive tutors, can be used to engage and motivate learners while assessing complex skills.

**Objective 2.4** Conduct research and development that explores how Universal Design for Learning can enable the best accommodations for all students to ensure we are assessing what we intend to measure rather than extraneous abilities a student needs to respond to the assessment task.

**Objective 2.5** Revise practices, policies, and regulations to ensure privacy and information protection while enabling a model of assessment that includes ongoing gathering and sharing of data on student learning for continuous improvement.

- **Goal 3: Teaching: Prepare and Connect**

Professional educators will be supported individually and in teams by technology that connects them to data, content, resources, expertise, and learning experiences that enable and inspire more effective teaching for all learners.

**Objective 3.1** Expand opportunities for educators to have access to technology-based content, resources, and tools where and when they need them.

**Objective 3.2** Leverage social networking technologies and platforms to create communities of practice that provide career-long personal learning opportunities for educators within and across schools.

**Objective 3.3** Use technology to provide all learners with online access to effective teaching and better learning opportunities and options especially in places where they are not otherwise available.

**Objective 3.4** Provide educators with professional learning experiences powered by technology to increase their digital literacy and enable them to create compelling assignments for students that improve learning, assessment, and instructional practices.

**Objective 3.5** Develop a teaching force skilled in online instruction.

- **Goal 4: Infrastructure: Access and Enable**

All students and educators will have access to a comprehensive infrastructure for learning when and where they need it.

**Objective 4.1** Ensure students and educators have broadband access to the Internet and adequate wireless connectivity both in and out of school.

**Objective 4.2** Ensure that every student and educator has access to an Internet access device and appropriate software and resources for research, communication, multi-media content creation, and collaboration for use in and out of school.

**Objective 4.3** Support the development and use of open educational resources to promote innovative and creative opportunities for all learners and accelerate the development and adoption of new open technology-based learning tools and courses.

**Objective 4.4** Build district for evolving an infrastructure for learning.

**Objective 4.5** Develop and use interoperability standards for content and student-learning data to enable collecting and sharing resources and collecting, sharing, and analyzing data to improve decision making at all levels of our education system.

**Objective 4.6** Develop and use interoperability standards for financial data to enable data-driven decision making, productivity advances, and continuous improvement at all levels of our education system.

- **Goal 5: Productivity: Redesign and Transform**

Our education system at all levels will redesign processes and structures to take advantage of the power of technology to improve learning outcomes while making more efficient use of time, money, and staff.

**Objective 5.1** Develop and adopt a common definition of productivity in education and more relevant and meaningful measures of outcomes, along with improved policies and technologies for managing costs, including those for procurement.

**Objective 5.2** Develop useful metrics for the educational use of technology.

**Objective 5.3** Design, implement, and evaluate technology-powered programs and interventions to ensure that students progress seamlessly through our PK–12 education system and emerge prepared for college and careers.

The complete draft version of the 2011-2012 Keller ISD Technology Plan is posted on K-Connect. The plan will be submitted to the Texas Education Agency by March 31, 2011 for approval.

**Communication Deployment:**

- Board Meeting Minutes

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Respectfully submitted,

Joe Griffin  
Chief Technology Officer

# **KISD TECHNOLOGY PLAN**

*March 10, 2011*

**DISTRICT  
STRATEGIC  
PLAN**

- *Alignment with KISD Strategic Plan*
  - *Educational Excellence*
    - *1.4 Use familiar and accessible technologies to transform the teaching/learning process*
  - *Excellence in Operational Processes and Systems*
    - *3.4 Automate processes using innovative means*

## PAST STATE TECHNOLOGY FUNDING (411)

Learning	Technology Integration Facilitators (4)	220,000
Learning	Nettrekker	22,000
Learning	Safari Montage	87,000
Learning	StudyWiz	28,000
Learning	ClassLink	11,000
Learning	Inspiration software	46,000
Learning	Atomic Learning (on-line technology training)	50,000
Technology	Classroom technology replacement and pilots	450,000
<b>TOTAL</b>		<b>914,000</b>

# ALIGNMENT WITH NATIONAL TECHNOLOGY PLAN FOR LEARNING

National Plan - 2010



Learning



Assessment



Teaching



Infrastructure



Productivity

Keller ISD Plan – 2011-2012



Engage and Empower

- Digital Content-Always On Learning
- Instructional delivery framework (VESTED)



Measure What Matters

- Pilot technology based assessments tools
- Explore embedded assessment technologies



Prepare and Connect

- 24/7 access to content, resources, tools
- Leverage social networking for career personal learning opportunities



Access and Enable

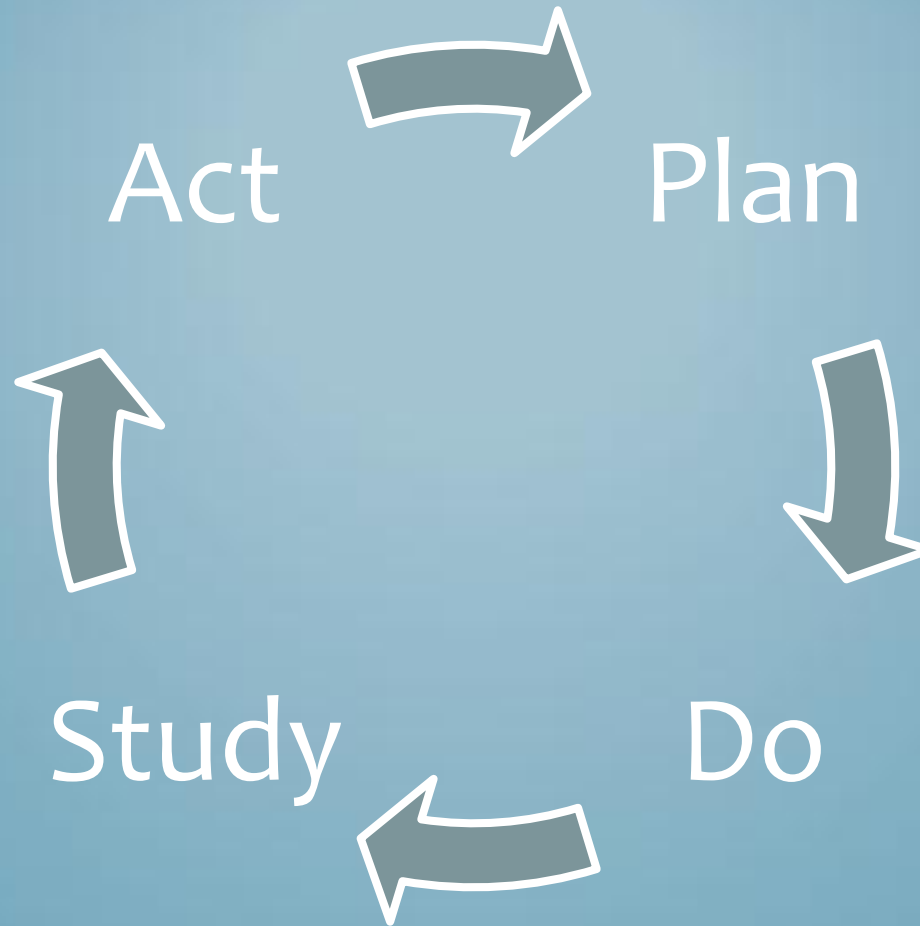
- Wireless connectivity-24/7 access
- Develop open resources



Redesign and Transform

- Develop metrics for technology usage
- Develop definitions of productivity

# CONTINUOUS IMPROVEMENT



“To ensure better alignment in decision making, states and districts should develop process-redesign teams that cut across functions and follow the process rather than looking at work flow only within a given office.” (National Technology Plan 2010)

# NATIONAL TECHNOLOGY PLAN – RESEARCH AND DEVELOPMENT

- 1.0: Design and validate an integrated system that **provides real-time access to learning experiences tuned to the levels of difficulty and assistance that optimize learning for all learners** and that incorporates self-improving features that enable it to become increasingly effective through interaction with learners.
- 2.0: Design and validate an integrated system for **designing and implementing valid, reliable, and cost-effective assessments of complex aspects of 21st-century expertise and competencies across academic disciplines.**
- 3.0: Design and validate an **integrated approach for capturing, aggregating, mining, and sharing content, student-learning, and financial data cost-effectively for multiple purposes** across many learning platforms and data systems in near real time
- 4.0: Identify and validate design principles for efficient and effective **online learning systems and combined online and offline learning systems that produce content expertise and competencies equal to or better than those produced by the best conventional instruction in half the time at half the cost.**