



# Harnessing the Power of Technology 3.0

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*A discussion of the proposed  
framework for building Florida's  
technology plan.*

# Agenda

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## **Purpose**

- To seek broad input from members on a comprehensive education technology plan which will become a major component of the State Board of Education's Strategic Plan:
  - Review research from technology industry leaders, national experts, and international experts
  - Discuss measurable components of the plan
  - Provide preliminary status report on Florida's technology initiatives
  - Address current and potential funding
  - Establish a timeline of implementation

# Mission

## State Board of Education



- Highest student achievement
- Seamless articulation and maximum access
- Skilled workforce and economic development
- Quality efficient services

# Effective use of technology can impact learning environments by:

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- Creating more **dynamic, real-time and multifaceted interaction** among students, teachers, and outside content experts
- Increasing collaboration and team work in problem-solving activities
- Stimulating creativity in both students and teachers
- Helping students to guide and monitor their own learning and
- Extend learning beyond the classroom.

“...a successful use of ICT in schools can help students to develop skills, ....that will be useful for them in their future academic and professional lives.”

*Are students ready for a technology-rich world? - OECD 2006*

# Sources of Research to Build Florida's Technology Plan

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- I. Industry Technology Leaders
- II. National Experts and Researchers
- III. International Technology Plans

# Outreach to Technology Experts

I. Industry Technology Leaders	• Apple	• Microsoft	• Oracle	• Dell
	• Cisco	• Intel	• Pearson	• Promethean
	• Google	• SMART	• Scholastic	• Gartner
II. National Experts & Researchers	• Michael Horn, co-author <i>Disruptive Innovation</i>			
	• Susan Patrick, iNACOL			
	• Linda Roberts, <i>Former USDOE Technology Director</i>			
III. International Technology Plans	<ul style="list-style-type: none"> <li>• <i>Digital education - making change happen - Australia</i></li> <li>• <i>Master Plan III - Singapore</i></li> <li>• <i>Adapting Education to the Information Age - Korea</i></li> </ul>			

# International/National/Florida Educational Technology Plan Components

Country	Technology Skills - Literacy	Digital Content	Teacher Training	Personal Learning Systems	Online – Performance Assessments	Networked Facilities	Enterprise Architecture/ Online Services
Australia	X	X	X	X	X		X
Finland	X		X				
Hong Kong	X	X	X	X	X		
Korea	X	X	X	X		X	X
New Zealand	X	X	X	X	X		
Singapore	X	X	X	X	X		X
United States	X		X				
Florida Framework	X	X	X	X	X	X	X

# Industry Technology Leaders Critical Recommendations

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## Classrooms

- ✓ Mobile devices
  - ✓ Tool-based software
  - ✓ Collaborative workspaces
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## Digital Content

- ✓ Podcasts
  - ✓ E-textbooks
  - ✓ Classroom generated content
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## Emerging

- ✓ Open education resources
- ✓ Viral distribution of content
- ✓ Hybrid/blended learning

# Blueprint for Technology

## *Florida's Technology Planning Framework*

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1. Connected students
2. Connected educators
3. Connected classrooms
4. Connected parents and communities
5. Connected facilities

# 1. Connected Students

*Engage students in their education in ways never before possible*

Component	Evaluation by:		
	District Plan	DOE Survey	Performance Assessment
Develop and implement technology literacy standards.	July - 2010	O	O
Knowledge and ability to use technology applications.	July - 2010	O	√
Utilization of digital content - video, audio, podcasts, learning objects, e-text books to enhance learning.	July - 2010	√	
Manage and access their own learning	July - 2010	O	
Participate in virtual learning - ubiquitous, hybrid, field trips.	July - 2010	O	
Collaborate in various learning environments	July - 2010	√	

## 2. Connected Educators

*Empower educators with the skills necessary to integrate technology to improve students' rates of learning*

Component	Evaluation by:		
	District Plan	DOE Survey	Performance Assessment
Develop technology literacy skills	July - 2010	√	√
Access and manage student information/data through learning management systems.	July - 2010	○	
Personalize and differentiate instruction for students through the use of digital content.	July - 2010	○	
Utilize just-in-time professional development	July - 2010	√	
Integration of technology in the curricula	July - 2010	√	
Technology-based intervention strategies in all curriculum areas to improve student achievement.	July - 2010	√	
Incorporate the use of e-learning options in curricula.	July - 2010	○	
Teacher education preparation programs incorporate effective technology integration in coursework.	**	○	

√ - Developed ○ - Proposed \*\*program approval standards

# 3. Connected Classrooms

*Access to innovative digital technologies for all students*

Component	Evaluation by:	
	District Plan	DOE Survey
Mobile technologies - laptops, handhelds, digital probes	July - 2010	√
High speed network	July - 2010	√
High-quality digital resources from across the globe	July - 2010	○
Tool-based software and simulations	July - 2010	○
Tools for safe and secure online knowledge sharing and collaboration	July - 2010	○
Web-based applications, service, and resources	July - 2010	√
Assistive technology for students with disabilities	July - 2010	√

√ - Developed ○ - Proposed

# 4. Connected Parents and Communities

*Use of technology to ensure parent and community involvement*

Component	Evaluation by:	
	District Plan	DOE Survey
Intercommunication among students, parents, teachers, administrators, and communities	July - 2010	O
Relevant information to parents including just in time data, assignments, approval for field trips, etc...	July - 2010	√
Community members have access to information about schools.	July - 2010	√
Opportunities for parents and community members to participate in training on the use of technology	July - 2010	√

# 5. Connected Facilities

*Ensure safe and secure environments through digital platform*

Component	Evaluation by:	
	District Plan	DOE Survey
Enhance school safety with networked services for effective methods for responding to incidents and improving response time.	July - 2010	○
Improve operational efficiencies of systems and resources	July - 2010	○
Reduce financial and legal liability to assess the value that technology adds to teaching and learning environments.	July - 2010	○
Alert parents to physical and content safety issues at the school	July - 2010	○
School districts use Web-based applications for state testing, data collection, warehousing, and reporting.	July - 2010	○

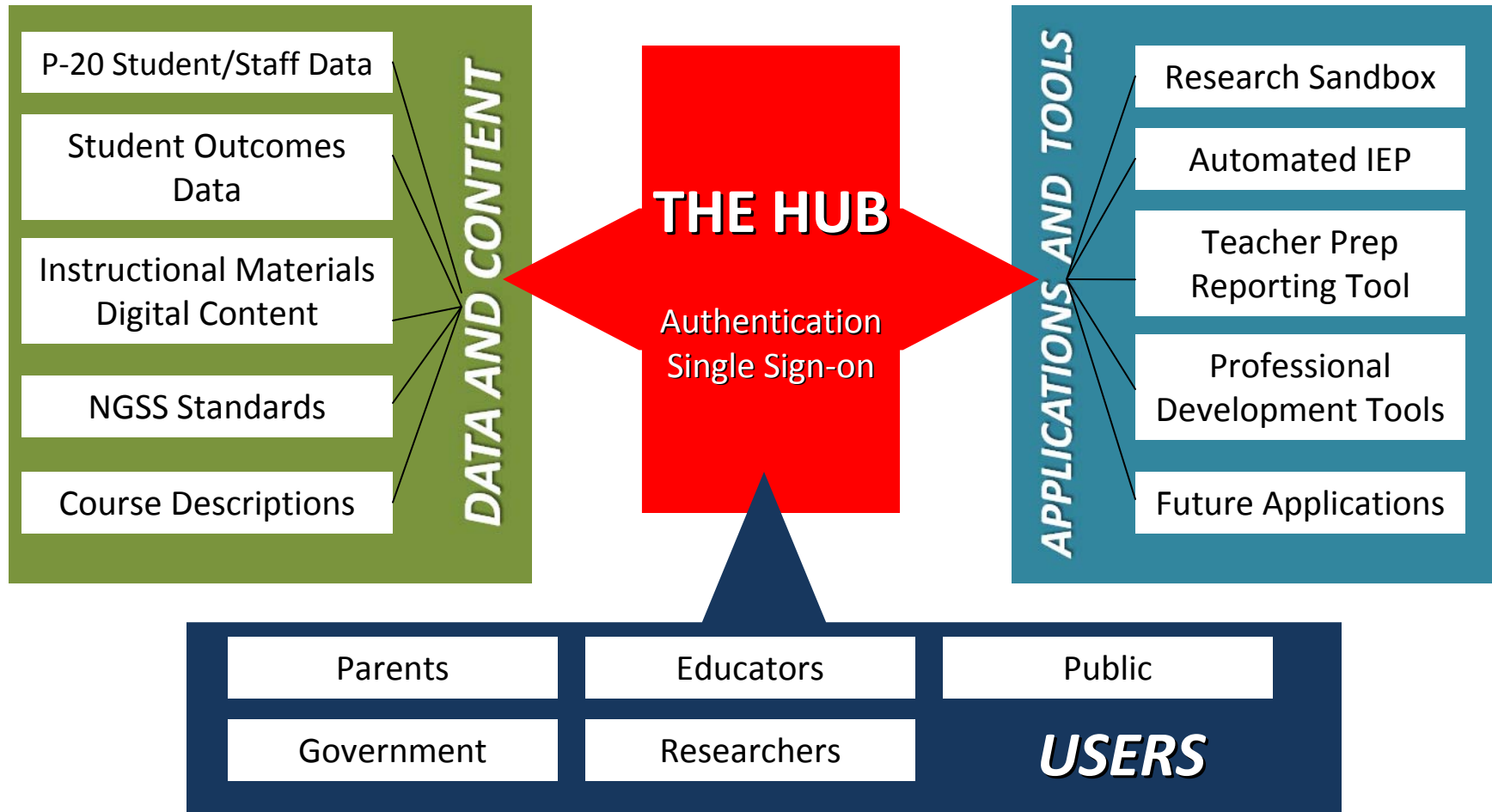
# Implementation

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## ■ State

- Two year ARRA Ed Tech District Entitlement funds with approved application and updated technology plan
- Implementation of surveys and assessments for quarterly reporting on progress of plan.
- Professional development of district trainers
- Development of school technology profile system

# DOE Service-Oriented Architecture



# Funding Sources

<b>I. Current Funding Source</b>	<b>Amount</b>	<b>Comments</b>
Title II, D	\$12 million	50% Formula / 50% Competitive
Ed Tech ARRA	\$30 million	(Two years) 50% Formula / 50% Competitive
Title I	\$22 million	District submitted budgets for technology
IDEA	\$65 million	District submitted budgets for technology
State Fiscal Stabilization Fund	\$3.3 Million	District submitted budgets for technology
<b>II. Potential Funding Source</b>		
Race to the Top		
Innovation Grants		

# Wrapping Up

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- Reviewed international plans, our national plan, and technology industry leaders' input
- Discussed components of proposed plan
- Provided preliminary status report on Florida's technology initiatives (background material)
- Addressed current and potential funding
- Received input
- Next steps for Board approval of technology plan