



TOM TORLAKSON
State Superintendent
of Public Instruction

Transitioning to Smarter Balanced Assessment



Solano County Office of Education

April 16, 2013



Jose Ortega, California State Readiness Coordinator
Rodney Okamoto, Technology/Reporting work group co-chair



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Agenda

1. Statewide Technology Planning
 - SSPI's Education Technology Task Force
 - California Education Technology Blueprint

2. SBAC Technology Update
 - Technology Milestones
 - Technology Strategy Framework and System Requirement Specifications
 - Technology Readiness Tool
 - Technology Implementation Costs
 - Training Test Demo



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1.

Statewide Technology Planning



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The Blueprint Journey

- **1996:** “Connect, Compute, and Compete”
[by CDE]
- **2003:** “Education Technology Master Plan”
[by the California Commission on Technology
and Learning]
- **2006:** NCLB State Technology Plan [by
CDE]



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The Blueprint Development

- **2012:** Education Technology Task Force
- **49 Members:** Broad representation
- **Task:** Learn From Past // Learn From Future Direction
- **Grounded on Learning:** Support personalized and individualized learning
- **2013:** *Empowering Learning: California Education Technology Blueprint 2013–2016* [working title]



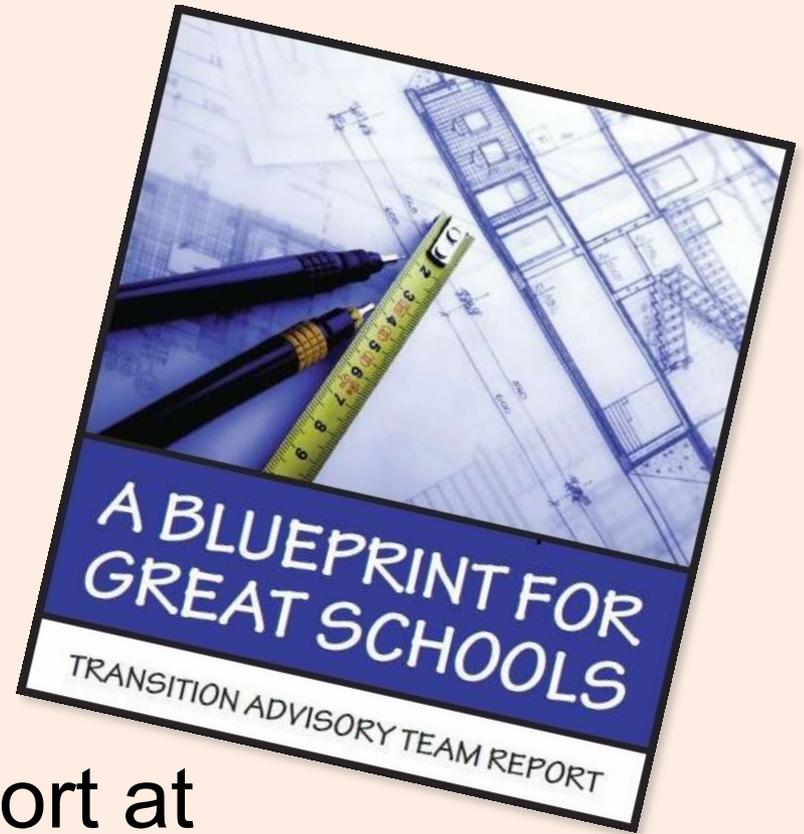
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The Tech Blueprint Journey Begins Here

Superintendent's
Transition Advisory
Team

A Blueprint for Great Schools

Download the report at
www.cde.ca.gov/blueprint





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...And Prepares Us For This

Thus, the new mission of schools is to prepare students to work at jobs that do not yet exist, creating ideas and solutions for products and problems that have not yet been identified, using technologies that have not been invented.

—Dr. Linda Darling-Hammond,
The Flat World and Education



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Task Force Memo To SSPI

California Department of Education Web site:
<http://www.cde.ca.gov/eo/in/edtechbi.asp>

The screenshot shows the California Department of Education website. The header includes the state seal and the text "California Department of EDUCATION". A navigation menu contains links for "Curriculum & Instruction", "Testing & Accountability", "Finance & Grants", "Data & Statistics", and "Learning Support". The breadcrumb trail reads "Home » Executive Office » Initiatives & Programs » California Education Technology Blueprint". The main heading is "California Education Technology Blueprint" with the subtext "The latest information about planning for education technology use in schools." The body text states: "A *Blueprint for Great Schools*, a plan presented to State Superintendent Tom Torlakson provides vision and direction for our education system, including a focus on 21st Century child, and rebuilding the ranks of California's teachers with resources and respect. Several [A Blueprint for Great Schools \(PDF\)](#) prompted the Superintendent to initiate a process to strategic plan to reflect new trends and research." It continues: "The process includes the appointment of an Education Technology Task Force composed of representatives from across the state; a public website to gather opinions and views; a listening tour with the Superintendent's top advisors; a review of the research and literature; and an extensive review of the Education Technology Blueprint will be presented in early 2013." A section titled "Electronic Mailing List" follows, with the text: "To receive notices of briefings and other news as the CDE moves forward to craft a new



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Tech Blueprint Structure

Learning
Teaching
Assessment
Infrastructure
Productivity



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So, How Do We Get There?

- CDE and the SSPI support:
 - Increased state and federal visibility
 - Local school construction & modernization bonds
 - Statewide school construction bond
 - E-Rate & H.R. 521 Transforming Education Through Technology Act
 - Workforce training and development
 - Connectivity and network access
 - Outreach and support for equitable state benefit



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2.

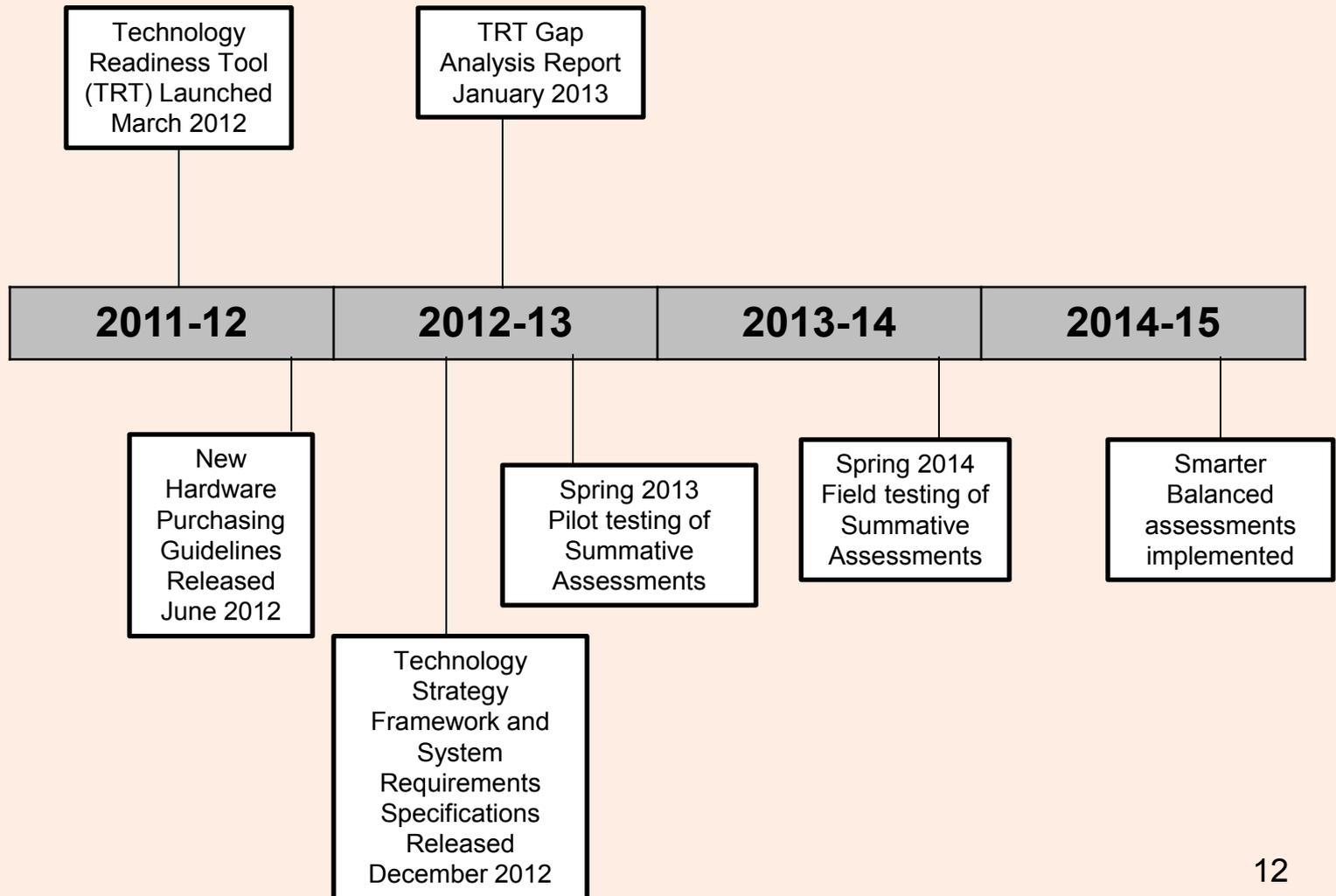
SBAC

Technology Update



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Smarter Balanced Technology Milestones





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Technology Strategy Framework and System Requirement Specifications

- Key Findings

- States implementing online, computer-adaptive assessments similar to the proposed Smarter Balanced Assessment System have ***done so effectively while adhering to tight budgetary provisions and implementation timelines.***
- Districts and educators within states that have made the transition to online, computer-adaptive tests find considerable value in the increased amount and specificity of performance data available, the expediency in which the data is accessible, and the ***cost-savings associated with online distribution and management of the assessment and the related data.***
- ***Much of the existing hardware devices currently deployed across school sites will effectively support the Smarter Balanced Assessment System;*** however, districts must focus on ensuring ample bandwidth provisions to support larger populations of students participating in testing through strategic scheduling and rotations throughout administration windows.



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Technology Strategy Framework and System Requirement Specifications

- **Minimum System Requirements**
 - Windows XP, Mac OS X 10.4.4 (with phase out plan)
 - iPads (iOS 6.x), Android tablets, Chromebooks
 - Minimum screen size: 10” class or larger
 - Headphones
 - Keyboards
 - Printers (for accommodations)
 - Estimated network bandwidth: 10K – 20K bps per student testing concurrently



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Technology Readiness Tool (TRT)

- Online Web application that collects information on the current Information Technology at the school-level
- Areas: devices, network infrastructure, and staff and personnel readiness
- Gap analysis reports indicate level of “readiness”
- 17% of CA schools have completed TRT
- 60% of CA schools have entered data



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TRT Gap Analysis Report

How many computers meet minimum specs?

SBAC > California > Test District



California

Device Indicators

As of February 13, 2013 at 03:09 AM CT

Test District (99999990000000) - 76% of Devices Meet the Minimum Requirements

Requirements

Minimum / Recommended Requirements

Print to .pdf

Meeting Requirements

- TBD
- 0%-25%
- 26%-50%
- 51%-75%
- 76%-100%

Export to .csv

Results 1 - 3 of 3 | Display 10

Organization	Total Devices	# Devices Meeting All Minimum Requirements	% Devices Meeting All Minimum Requirements
Test School 1 (99999999999999)	80	50	63%
Test School 2 (99999999999990)	45	45	100%
Test School 3 (99999999999991)	0	0	0%

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TRT Gap Analysis Report

Does the school have enough computers?

SBAC > California > Test District



Device to Test-Taker Indicators

Print to .pdf

As of February 13, 2013 at 03:09 AM CT

Test District (99999990000000) - 100% of Eligible Test-Takers can be Tested on Existing Devices based on Minimum Requirements

Requirements

Minimum / Recommended Requirements

Percent Coverage

- TBD
- 0%-25%
- 26%-50%
- 51%-75%
- 76%-100%

Export to .csv

Results 1 - 3 of 3 | Display 10

Organization	# Devices Meeting Minimum Requirements	# of Test-Takers	Testing Window (Days)	# Sessions per Day	% of Students that can be Tested
Test School 1 (99999999999999)	50	138	10	1	100%
Test School 2 (99999999999990)	45	70	60 (Consortium)	2	100%
Test School 3 (99999999999991)	0	(missing)	(missing)	(missing)	0%

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TRT Gap Analysis Report

Does the school have enough network bandwidth?

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SBAC > California > Test District



California

Network Indicators

As of February 13, 2013 at 03:09 AM CT

Test District (99999990000000) -
33% of Schools have Sufficient
Infrastructure to Carry the Data Traffic
for this Assessment based on Minimum
Requirements ⁱ

Requirements ▾

Minimum / Recommended Requirements 🔍

Print to .pdf

Test Data Capacity

- TBD 🔍
- 0%-25%
- 26%-50%
- 51%-75%
- 76%-100%

Export to .csv

Results 1 - 3 of 3 | Display ▾

Organization	Est Internet Bandwidth	Est Internet Bandwidth Utilization (%)	Est Internal Network Bandwidth	Est Network Bandwidth Utilization (%)	Total # Test Starts Needed per School ⁱ	Testing Window (Days)	Max # Possible Test Starts in Window ⁱ	% of Students that can be Tested in the window ⁱ
Test School 1 (99999999999999)	<2 Mbps - ADSL/T1/DS1	70	100 Mbps - Fast Ethernet	25	552	10	300	54%
Test School 2 (99999999999999)	10 Mbps - Ethernet	50	100 Mbps - Fast Ethernet	40	280	60 (Consortium)	15000	>100%
Test School 3 (99999999999991)	(missing)	(missing)	(missing)	(missing)	(missing)	(missing)	(missing)	(missing)

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TRT Gap Analysis Report

What is the level of concern about staff and personnel readiness? (six questions)

SBAC > California > Test District



Staff & Personnel Indicator Report

As of February 12, 2013 at 03:07 AM CT

SELECT A QUESTION:

- Having a sufficient number of test administrators to support online testing.
- Having a sufficient number of test administrators to support online testing.**
- Test administrators having sufficient technical understanding to support online testing.
- Providing all appropriate training needed for test administrators.
- Having a sufficient number of technology support staff to support online testing.
- Technology support staff having sufficient technical understanding to support online testing.
- Providing all appropriate training needed for technology support staff.

Print to .pdf

Level of Concern

- 8-10
- 6-7
- 4-5
- 0-3

Export to .csv

Organization	Level of Concern ■ 0-3	Level of Concern ■ 4-5	Level of Concern ■ 6-7	Level of Concern ■ 8-10	Other
Test School 1 (9999999999999999)	1	0	0	0	
Test School 2 (9999999999999999)	0	0	1	0	
Test School 3 (9999999999999999)	(missing)	(missing)	(missing)	(missing)	(missing)

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Tech Implementation Costs

- LEA-level technology responsibilities
 - Computers for test takers and test administrators
 - Headphones, keyboards, printers
 - Data network bandwidth (internal and Internet)
 - Technical support staff and training



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Training Test Demo

- Training Test created for schools in the Scientific Pilot
- Look and feel similar to the Practice Test (May 29 availability)
- Provides “student testing experience”
- Available on public Internet, but requires Firefox, Chrome, or Safari Web browser (Internet Explorer not supported)
- <https://sbacpt.tds.airast.org/student/> (use GUEST User/Session)