



California Department of Education

# MEXT Resources

Delegation Visitation: Monday, January 28, 2013

**Visiting Delegation Informational Resources**  
**Prepared by: California Department of Education**

**I. Technology Infrastructure**

**DESCRIPTION:** E-rate and the California Teleconnect Fund (CTF) are programs that provide discounts on telecommunication costs to eligible schools. Although there are differences in eligible services and discount rates, it is possible for schools to receive significant discounts on telecommunications costs by using both E-rate and CTF discounts together.

**URL:** <http://www.cde.ca.gov/ls/et/ft/eratemain.asp>

**DESCRIPTION:** California Research and Education Network (CalREN) supports connectivity for K-12, community colleges, the UC system, the CSU system, and participating private universities in a robust network dedicated to education and its needs.

**URL:** <http://www.cenic.org/calren/index.html>

**DESCRIPTION:** K-12 High Speed Network is a program that manages the K-12 connections to CalREN. K-12 aggregation points called “node sites” bring program-supported Internet access near the local school districts, which are then responsible for their reasonably priced connections to the node site.

**URLS:**

<http://www.k12hsn.org/network/>

<http://www.k12hsn.org/resources/>

**DESCRIPTION:** Connectivity information, collected from K12 node sites and school districts, is reported in DataLINK. Current reports indicate that 100% of county offices of education, 86% of school districts, and 82% of schools receive their connectivity through the K-12 High Speed Network program. Speeds of connections are also reported in the system.

**URL:** <http://www.k12hsn.org/data/reporting/index.php/state>

**II. ICT Standards and Measures for Improving ICT Literacy**

**DESCRIPTION:** Sweeping updates to California's career technical education (CTE) standards—designed to reflect the changing face of technology and set higher academic goals—received approval from the State Board of Education Wednesday, January 16, 2013. The new standards build on the previous CTE standards. The revised standards were created with input from more than 300 representatives from business and industry, labor, and postsecondary and secondary education, ranging from the U.S. Department of Homeland Security to mental health experts and environmental innovators.

**URL:** <http://www.cde.ca.gov/ci/ct/sf/ctemcstandards.asp>

**DESCRIPTION:** As mentioned above, the California Department of Education recently updated the Career Technical Education standards and renamed the “Information Technology” career sector to the “Information and Communication Technologies (ICT)” career sector to better reflect the nature of ICT.

**URL:** <http://www.edsynergy.org/wp-content/uploads/2013/01/California-ICT-Model-Standards.pdf>

**DESCRIPTION:** The California State Board of Education recognizes digital literacy as critical and approved the Model Library Standards.

**URL:** <http://www.cde.ca.gov/be/st/ss/documents/librystandards.pdf>

**DESCRIPTION:** National Standards for Online Courses includes one standard, A4, about information literacy. The California Learning Resource Network incorporates all of CA’s Model Library Standards within their review of A4 for each course.

**URL:** <http://www.clrn.org>

**DESCRIPTION:** ISTE’s NETS standards for students include strands for Research and Information Fluency and Digital Citizenship.

**URL:** <http://www.iste.org/standards/nets-for-students>

**DESCRIPTION:** ISTE NETS profiles also contain specific ICT standards by grade span: PK-2, Grades 3-5, Grades 6-8, and Grades 9-12.

**URL:** <http://www.iste.org/docs/pdfs/nets-s-2007-student-profiles-en.pdf?sfvrsn=4>

**DESCRIPTION:** CLRN reviews online courses for their alignment to the Common Core State Standards (math and ELA) or for California’s original content standards. In addition, all courses are reviewed for iNACOL’s National Standards for Quality Online Courses. CLRN reviews courses in the following subjects: English-language arts, history-social science, mathematics, science, visual and performing arts, and world languages. They are currently looking for funding to review CTE courses.

**URL:** <http://clrn.org>

**DESCRIPTION:** Instructional Resources in the Common Core State Standards: CLRN reviews both Open Educational Resources (OER) and supplemental online resources (ELR) for their alignment to the Common Core standards. Resources may be found by specific Common Core standard, by keyword search or by browsing.

**URLS:**

By specific Common Core standard, by keyword search or by browsing:

<http://clrn.org/search/bystandard.cfm>, <http://clrn.org/search/>, <http://clrn.org/home/elr.cfm>

OER resources aligned to the Common Core: <http://clrn.org/browse/index.cfm/web-info-links>

**DESCRIPTION:** CDE and the California Community Colleges adopted the 2008-2012 California State Plan For Career Technical Education. The plan provides authority and funding to promote and foster the work of the ICT career sector.

**URL:** <http://cte.ed.gov/docs/stateplan/CA5YearStatePlan.pdf>

**DISCUSSION:** CDE provided a Workshop presentation to brief school teachers about how to implement the draft standards.

**URL:** <http://www.youtube.com/watch?v=BoMdATMTGOE>

**DESCRIPTION:** As mentioned above, CDE recently updated the Career Technical Education standards and renamed the “Information Technology” career sector to the “Information and Communication Technologies (ICT)” career sector to better reflect the nature of ICT.

**URL** for the Model ICT Standards: <http://www.edsynergy.org/wp-content/uploads/2013/01/California-ICT-Model-Standards.pdf>

**DESCRIPTION:** The California State Board of Education recognizes digital literacy as critical and approved the Model Library Standards.

**URL:** <http://www.cde.ca.gov/be/st/ss/documents/librarystandards.pdf>

**DESCRIPTION:** CDE provides leadership and advocacy by working with education and industry partners. For example, CDE co-sponsored four IT Summits working with the World Organization of Webmasters, and worked with the Mid-Pacific ICT Project to promote awareness of information about ICT jobs in California.

**URLs:** <http://www.edsynergy.org/innovation-summit-southern-california-the-best-of-times.htm>

<http://whyitnow.org/advocacy>

<http://www.edsynergy.org/workforce-study-to-help-establish-student-learning-outcomes.htm>

<http://www.edsynergy.org/wp-content/uploads/2012/10/2011CallICTPhase3.pdf>

**DESCRIPTION:** CDE provides ICT-focused training for teacher through state conferences.

**URLs:** <https://2013.educatingforcareers.org/>

<http://www.fcoe.org/events/state-migrant-parent-conference>

**DESCRIPTION:** CDE provides information to support student goals for careers and college. For example, videos on careers and colleges that offer degreed programs related to ICT pathways.

**URLs:** <http://www.edsynergy.org/ict-video-resources-for-the-classroom-teacher.htm>

<http://www.edsynergy.org/california-career-center-web-portal.htm>

<http://www.edsynergy.org/college-majors-for-students-interested-in-computer-science.htm>

**DESCRIPTION:** CDE developed a conference workshop and a handout for Migrant Parents to inform them about ICT career opportunities and to enable them to advocate for ICT programs at their local school.

**URL:** <http://www.edsynergy.org/wp-content/uploads/2012/10/Migrant-Parent-Handout-on-ICT.doc>

**DESCRIPTION:** CDE is planning to support teachers who provide instruction in ICT subjects through a professional learning community.

**URL:** <http://www.edsynergy.org/wp-content/uploads/2012/10/The-ICT-Sector-Connected-Teaching-Program.docx>

**DESCRIPTION:** CDE works with school districts, community colleges, state colleges and universities to focus on ways to improve computer science education in California.

**URL:**

<http://www.edsynergy.org/wp-content/uploads/2012/10/CCEAN-InNeedofRepair-Final.pdf>

**DESCRIPTION:** CDE works with local high schools and community colleges to better focus and align ICT pathways and curriculum.

**URLs:**

<http://www.mpict.org/pdf/CCC ICT Programs and Credentials 12-31-12.pdf>

[http://www.mpict.org/newsletters/q211/article\\_building\\_ict\\_pathways\\_symposium.html](http://www.mpict.org/newsletters/q211/article_building_ict_pathways_symposium.html)

**DESCRIPTION:** CDE fosters and promotes ICT instruction by developing regional partnerships with business and industry, community colleges and high schools. For example, see the Orange County ICT Education Collaborative flyer below.:

**URL:**

<http://www.edsynergy.org/wp-content/uploads/2012/10/ocICT-flyer2.pdf>

**DESCRIPTION:** The CDE works with business and industry partners to promote instructor certifications in ICT subjects.

**URL:**

<http://www.edsynergy.org/free-certification-offer-from-certiport.htm>

### III. Local Examples

The SDCOE, in collaboration with Casa Familiar and housing partners of Park Haven and Villa Nueva Apartments, One Economy, and local school districts have bridged the digital divide in San Ysidro by becoming a 21st Century Community. This effort integrated technology to enhance education through the creation of two Wi-Fi bubbles (wireless Internet) in the community free to residents at two low income apartment complexes, totaling nearly 1000 units/homes/families. Efforts included the implementation of the Digital Connectors Program that trains youth in CISCO I.T. essentials certification, while developing leadership and employment skills.

**DESCRIPTION:** CDE promotes transformation of high schools through implementation of academy programs.

**URLs:** College and Career Academy Programs: <http://casn.berkeley.edu/>

Report, Comparing Academy vs. Non-Academy Students:

[http://casn.berkeley.edu/resource\\_files/ComparingAcad\\_%20Non-AcadStudents\\_2012.pdf](http://casn.berkeley.edu/resource_files/ComparingAcad_%20Non-AcadStudents_2012.pdf)

**DESCRIPTION:** One way CDE supports ICT is by funding schools like Hoover High School Academy of IT through the California Partnership Academy grant program. Below is a report about grant funded activities to CDE from Hoover High School Academy staff.

**URL:** <http://www.edsynergy.org/wp-content/uploads/2012/10/HooverAOIT20111.pdf>

**DESCRIPTION:** Some ICT academies provide paid summer work experience for academy students by gaining local business advisor support.

**URL:**

<http://www.edsynergy.org/paid-summer-internships-work-for-it-academy-students.htm>

**DESCRIPTION:** CDE provides financial support to academy programs that promote college and career. "Linked Learning" programs use coursework, technical training, work-based learning and related support mechanisms to forge real connections between high school and college and career.

**URL:** <http://www.cde.ca.gov/nr/ne/yr13/yr13rel2.asp>

**DESCRIPTION:** CDE provides information and support to schools to promote student engagement in "Outside the Classroom" activities that promote ICT skill development:

**URLs:** Think Quest <http://www.edsynergy.org/california-wins-big-in-international-thinkquest-competition.htm>

US Cyber Challenge: <http://www.edsynergy.org/big-win-for-mission-san-jose-high-school.htm>

US Cyber Challenge: <http://www.edsynergy.org/californias-cyber-security-champions.htm>

California Girls in Stem: <http://www.edsynergy.org/california-girls-in-stem-collaborative-project-mini-grants.htm>

Doodle for Google: <http://www.edsynergy.org/2013-doodle-for-google-contest-announced.htm>

URL:StRut: <http://www.svstrut.org/index.php/about-us>

**DESCRIPTION:** CDE provides financial and leadership support for student organizations that promote development of technology skills through organizations like SkillsUSA and Future Business Leaders of America.

**URLs:**

<http://www.cafbla.org/>

<http://www.cde.ca.gov/ci/ct/so/vica.asp>

#### IV. State and Institutional Actions

**DESCRIPTION:** ICT literacy is seen as a critical. California Governor's Executive Order.

**URL:** <http://gov.ca.gov/news.php?id=12393>

**DESCRIPTION:** Governor's Executive Order results in a statewide policy framework.  
**URL:** <http://www.ictliteracy.info/rf.pdf/California%20%20ICTPolicy%20Framework.pdf>

**DESCRIPTION:** Cybersafety is the safe and responsible use of the Internet and all information and communication technology devices, including mobile phones, digital cameras, and webcams. The State CTAP Website has provided an excellent assembly of Internet safety resources for use by schools and districts throughout California.  
**URL:** <http://myctap.org/index.php/teaching-and-learning/cybersafety-resources>

**DESCRIPTION:** Digital Citizenship has been defined by The International Society for Teaching and Learning in Education (ISTE) as the norms of behavior with regard to technology use. As a way of understanding the complexity of digital citizenship and the issues of technology use, abuse, and misuse, here are nine general areas that make up digital citizenship.

- 1 *Etiquette:* electronic standards of conduct or procedure
- 2 *Communication:* electronic exchange of information
- 3 *Education:* the process of teaching and learning about technology and the use of technology
- 4 *Access:* full electronic participation in society
- 5 *Commerce:* electronic buying and selling of goods.
- 6 *Responsibility:* electronic responsibility for actions and deeds
- 7 *Rights:* those freedoms extended to everyone in a digital world
- 8 *Safety:* physical well-being in a digital technology world
- 9 *Security (self-protection):* electronic precautions to guarantee safety

**URL:** <http://myctap.org/index.php/teaching-and-learning/digital-citizenship>

**DESCRIPTION:** Web 2.0 tools and resources are more critical than ever as students strive to acquire 21<sup>st</sup> Century skills and their teachers seek tools to help them enhance 21<sup>st</sup> Century classroom instruction.

**URL:** <http://myctap.org/index.php/teaching-and-learning/web-20-tools-and-resources>

**DESCRIPTION:** Mobile Device Initiatives in Schools: Schools around the country are moving forward with allowing teachers and students to "bring their own devices or technology." While most schools still do not permit the use of personal mobile devices in class, more schools are allowing students to use their own laptops, iPads, and cell phones during the school day. There are a number of reasons for this paradigm shift.

**URL:** <http://myctap.org/index.php/techplan/mobile-device-initiatives>

**DESCRIPTION:** For participation in K12 Voucher and/or E-Rate (Priority 2 funding) in California, a school district or direct-funded charter school must have a state-approved technology plan. To assist districts in crafting and submitting technology plans for CDE approval, a Tech Plan Builder is available to all California school districts and schools.

**URL:** <http://myctap.org/index.php/techplan/tpb>

**DESCRIPTION:** Technology Information Center for Administrative Leadership



(TICAL) is a statewide project funded to provide school and district leadership information and training on ICT Literacy as well as preparing our students for 21<sup>st</sup> Century careers. The project consists of three parts; a portal with over a nine-hundred resources to help leaders in learning more about technology and aligned to ISTE's National Educational Technology Standards for Administrators (NETS-A) and California Professional Standards for Educational Leaders (CPSELs); the cadre, a group of practicing administrators who help find resources for the portal and assist with professional development; and the Conference, LEAD 3.0, presented in collaboration with Computer Using Educators (CUE) and Association of California School Administrators.

TICAL is also putting on an Online School Leadership Summit that will enable school leaders to attend conference sessions online all aligned to the National Education Technology Standards for Administrators (NETS-A).

**URL:** <http://www.portical.org>

**DESCRIPTION:** The California Technology Agency recently established the Office of Broadband and Digital Literacy to foster and promote digital literacy and broadband access throughout California.

**URL:** <http://www.cta.ca.gov/digitalliteracy/index.html>

**DESCRIPTION:** CDE issued the Multiple Pathways Report to promote the college and career approach to education.

**URL:**

[http://www.schoolsmovingup.net/mpstudy/downloads/AB2648\\_MP\\_Report\\_Executive\\_Summary\\_051210\\_FINAL.pdf](http://www.schoolsmovingup.net/mpstudy/downloads/AB2648_MP_Report_Executive_Summary_051210_FINAL.pdf)

**DESCRIPTION:** The California Digital Literacy Initiative is a collaborative effort of the Digital Literacy Pathways Advisory Committee, the California Technology Agency, the LINK AMERICAS Foundation, the California Emerging Technology Fund and the private sector. This purpose of the initiative is to foster and promote digital literacy to all Californians. The initiative is working with libraries in California to promote digital literacy through a "Job Scout" application.

**URLS:**

<http://www.linkamericas.org/icalifornia.about.html>

<http://myjobscout.org/>

**DESCRIPTION:** Riverside Unified District's Free Digital Text Initiative

**URL:**

<http://www.youtube.com/watch?v=O5ZGUI8MYb0>

**DESCRIPTION:** Senate Bills signed by California Governor Gerry Brown to provide California College Students with access to free online textbooks for 50 undergraduate classes

**URLS:**

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201120120SB1052](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201120120SB1052)



[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201120120SB1053](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201120120SB1053)

**DESCRIPTION:** Annual online surveys for students, teachers and parents to share their views on important K-12 education topics with local and national education leaders

**URL:**

<http://www.speakup4schools.org/speakup2012/>

### PowerPoint Presentations:

1. Overview of California educational infrastructure by Jose Ortega



Adobe Acrobat  
Document

2. Overview of TechSETS and ICT by Emil Ahangharzadeh



Adobe Acrobat  
Document

3. Overview of E-rate for California by Russ Selken



Adobe Acrobat  
Document

4. Overview of the California Learning Resource Network by Brian Bridges



Adobe Acrobat  
Document

5. TICAL Information flyer



Adobe Acrobat  
Document

6. School Leadership Summit



Adobe Acrobat  
Document

7. A report by California State Superintendent of Public Instruction Tom Torlakson's Task Force on Educator Excellence.



Adobe Acrobat  
Document

8. A report by California State Superintendent of Public Instruction Tom Torlakson on Recommendations for Transitioning California to a Future Assessment System.



Adobe Acrobat  
Document

9. A report by California Superintendent of Public Instruction Tom Torlakson's Transition Advisory Report for a Blueprint for Great Schools.



Adobe Acrobat  
Document

10. Full Time and Part Time School Employees for 2010-11

Full Time Certificated Staff: 308,657

Part Certificated Staff: 23,983

Full Time Classified Staff: 147,194

Part Time Classified Staff: 288,755