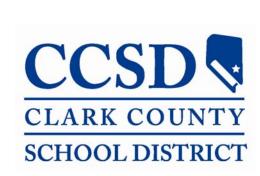
# 2010-2013

Clark County School District K-12 Technology Plan





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# CLARK COUNTY SCHOOL DISTRICT K-12 TECHNOLOGY PLAN

#### **TECHNOLOGY PLAN VISION STATEMENT**

It is the vision of the Clark County School District Technology Planning Committee to integrate technology into instructional and professional practices with the overall mission of improving student achievement and operational efficiency.



#### **ABOUT THIS PLAN**

The Clark County School District (CCSD) Technology Plan represents a forward-looking effort to align information and communication technology infrastructure with the programs and personnel whose primary focus is student achievement. To accomplish this goal, the plan draws upon the District's overall strategic and improvement planning framework.

The document works in tandem with other District plans. The CCSD strategic plan is focused on goals related to climate, achievement, and participation (Appendix F). In turn, the District Improvement Plan (Clark County School District, 2009) makes the framework operational by focusing on student achievement, professional development, and the human capital needs of the District. The Technology Plan acknowledges that technology can and must play a role in connecting these goals, and provides new means by which overall success can be realized. Technology can be a solution to current challenges and a driver of future innovation. This plan is organized to meet the District Improvement Plan goals and provides a road map for ensuring success with additional focus on future planning endeavors.

Guided by an interdisciplinary planning advisory team, this plan lays the foundation for future strategic technology success spanning July 1, 2010, through June 30, 2013. Goal 4 outlines the vision and action steps related to future planning processes. The guiding principles of the District's technology success are:

- Learning in the 21<sup>st</sup> century is inextricably linked to formal and informal uses of the Internet and digital technologies and will play a vital role in strategic planning.
- Students rightly expect technology to be an important part of their everyday lives and learning activities.
- An effective educational system in the 21<sup>st</sup> century requires a robust technology infrastructure and digitally literate workforce.

#### DISTRICT IMPROVEMENT PLAN GOALS

- 1. The District will demonstrate increased student achievement in English language arts, mathematics, and science, reduce the achievement gap between disaggregated populations, decrease the number of high school dropouts, and increase achievement of Limited English Proficient (LEP) and Individualized Education Program (IEP) students by institutionalizing scientifically research-based instructional systems as evidenced in the Quality Assurance Framework (QAF). (A-1, A-3)<sup>1</sup>
- 2. The District will coordinate, design, deliver, and evaluate ongoing professional development aligned to District instructional initiatives. (A-2)
- 3. The District will continue targeted recruitment, support, and retention of qualified staff including teachers, administrators, and support staff. (C-1)

#### **TECHNOLOGY PLAN GOALS**

- 1. All students, teachers, and staff will use appropriate technologies and communication networks identified through needs assessment, research, and/or demonstrated effectiveness to support increased student achievement. (Aligned to District Improvement Goal 1)
- 2. Technology will be used to provide opportunities for high quality professional development via multiple modes of online and traditional instruction for all CCSD employees. (Aligned to District Improvement Goal 2)
- 3. The use of technology will be expanded to enhance communication and improve business processes for CCSD employees, stakeholders, and the community. (Aligned to District Improvement Goal 3)
- 4. The CCSD Technology Plan will be reviewed and evaluated on a continual basis with updates conducted as appropriate.

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<sup>&</sup>lt;sup>1</sup> Improvement Goals are coded to indicate their relationship to the District Strategic Plan's focus on Climate (C-1, C-2, C-3), Achievement (A-1, A-2, A-3), and Participation (P-1, P-2, P-3).

GOAL 1: ALL STUDENTS, TEACHERS, AND STAFF WILL USE APPROPRIATE TECHNOLOGIES AND COMMUNICATION NETWORKS IDENTIFIED THROUGH NEEDS ASSESSMENT, RESEARCH, AND/OR DEMONSTRATED EFFECTIVENESS TO SUPPORT INCREASED STUDENT ACHIEVEMENT. (ALIGNED TO DISTRICT IMPROVEMENT GOAL 1)

#### Background 1.1: Acquisition and Support of Network, Telephony, Hardware, and Software

The Clark County School District has an active commitment to educational technology in both acquiring, deploying, and supporting technology and Internet access in classrooms, labs, libraries, and other instructional areas. Some major characteristics include:

- Standards for new schools include a multimedia computer, projector, classroom voice amplification systems, digital media network, phone, and multi-media ready instructional wall for each classroom, at least one computer lab per school, and student computers in each library.
- A repurpose and replacement program has provided updated computers for school labs and libraries where the computers are at least five years old. As bond funding is available, schools are eligible to participate in the repurpose and replacement program. Elementary schools receive an average of 107 computers, middle schools receive 190, and high schools receive 334.
- A profile document that outlines District levels of support for hardware is updated annually by the User Support Services Department. (Appendix D)
- The District strives to be at least at the national average for the ratio of students to computers. The current national ratio is 3.8, Nevada's statewide ratio is 4.7, and the ratio for CCSD is 4.9. (Education Week, 2010)
- A unified help desk is in place to provide service to schools for technology-related problems. Schools make one call to request the appropriate service or assistance.
- Every school has filtered access to the Internet and an Acceptable Use Policy is in place. The District is compliant with the requirements of the Children's Internet Protection Act (CIPA). (Appendix C)
- A gigabit wide area network (WAN) connects metropolitan-area schools in the District. This WAN provides video streaming, voice, and video conferencing services. The WAN provides sufficient bandwidth to allow the use of new and emerging applications.
- Schools outside the metropolitan Las Vegas area are provided enhanced bandwidth via the local telephone company.
- More than 32,000 telephones are supported via the WAN. All classrooms have a phone, and all classroom teachers have a
  voice mailbox. Eighty-five percent of teachers surveyed agreed that "having a phone in the classroom enhances
  communication with parents/guardians."
- Enhanced 911 services are enabled for metropolitan-area schools.

- Over 300 schools currently have access to video streaming/video on demand (VOD) programs and services, which provides over 450,000 instructional resources annually to CCSD students, teachers, and staff.
- Since 2001, more than 4,000 graduate-level, online Vegas PBS TeacherLine courses have been completed by teachers for college credit and NCLB certification.
- There are over 9,500 WiFi access points installed in districtwide, and 222 schools have some wireless connectivity in their buildings.
- During the last legislative session in 2009, CCSD was awarded \$2,658,000 of competitive grant funding for replacement of 18 servers and a number of workstations in 24 elementary schools.

#### OBJECTIVES AND ACTION STEPS

1.1.1 Maintain support for E-Rate initiatives, which provides data and voice services. (Appendices A and B)

Action Step	Maintenance	Implementation and Reporting Timeline	Staff Responsible
Support and maintain the data communications networks to all District schools and offices.	Х		Technology and Information Systems: Networking Services
Ensure sufficient Internet bandwidth so that average school day utilization does not exceed 90%.	х		Technology and Information Systems: Technical Resources
Provide proven filtering software and firewall solutions to protect students from objectionable web content in accordance with the Children's Internet Protection Act.	Х		Technology and Information Systems: Technical Resources
Operate and maintain a districtwide telephone system, including voicemail and E911 services.	Х		Technology and Information Systems: Networking Services
Deploy wireless access points to 15 additional schools and maintain a wireless local area network infrastructure.		June 2011	Technology and Information Systems: Networking Services; Facilities Division
Provide basic maintenance of internal connections for school networks.		July 1, 2010 – June 30, 2011	Technology and Information Systems: Networking Services

1.1.2 Implement and monitor the District Technology Plan for the purchase, upgrade, and replacement of infrastructure, hardware, and software.

Action Step	Maintenance	Implementation and Reporting Timeline	Staff Responsible
Provide repurpose and replacement of outdated technology, including, but not limited to, desktop computers, servers, routers, switches, and related equipment.		Bond-funded Project	Technology and Information Systems: Networking Services, School Technology Deployment
Upgrade infrastructure to improve classroom connectivity in schools that need a major facility upgrade.		Bond-funded Project	Technology and Information Systems: School Technology Deployment Services; Facilities Division
Maintain a network operations center (NOC) to monitor health of network and infrastructure devices.	Х		Technology and Information Systems: Networking Services
Annually review repair/response timeframe matrix that corresponds to the level of priority.		September 2010	Technology and Information Systems Services
Provide video-on-demand programming, services, and software to distribute video and other instructional resources; review annual Vegas PBS report.		September 2010	Vegas PBS
Develop a process to examine technology currently in use against CCSD support profiles for activities such as proper handling of obsolete technology.		June 2011	Technology Research and Development Committee; Chief Technology Officer

#### **Background 1.2: Support for Student Learning**

Technology tools and environments support student learning when they are integrated within curricula. Clark County School District uses a variety of technologies to support teaching and learning including:

- Standards-based curriculum documents outline the technology objectives students must reach and include suggestions for classroom activities. Teachers are held accountable for using the documents in planning, teaching, and assessing. These documents are maintained to reflect changes to Nevada State Standards. (Appendix E)
- Online proficiency practice tests and remediation modules allow students to become familiar with the content and question
  format utilized in state-wide proficiency exams as well as providing immediate feedback to the students. Practice proficiency
  tests are offered online for high school mathematics and science. In addition, podcasts have been created for questions on
  the Pre-Algebra and Algebra I common semester assessments.
- Planning differentiated instruction is facilitated by the use of an Integrated Data Management System (IDMS). Teachers track student progress and provide instruction based on student needs.
- An increasing number of schools and areas are using mobile devices and web-based data systems to track student assessment results.
- Vegas PBS offers analog and digital content to teachers in multiple ways: video streaming, media delivered via school mail, and dedicated educational broadband channels.
- Vegas PBS Educational Media Center (EMC) encodes and duplicates analog and digital instructional and professional development programs throughout the District. Collaborative tools are available to allow teachers to use technologies such as online work spaces and conferences to share teaching strategies, resources, and ideas.
- Streaming video and video on demand from Vegas PBS provides over 150,000 segments of instructional video along with other instructional resources such as maps, charts, still images, supplemental resources, and tests. These materials and web sites align to Nevada State Standards and educationally appropriate websites on many topics. (Vegas PBS, 2010)
- Graphing calculators are included in the equipment list for new secondary schools and are widely used in the District.
- A wide variety of course offerings are available via the Virtual High School to students who wish to increase their credits, take courses not offered at their local school, or who need a flexible learning environment. (Virtual High School, 2010)
- Several schools are now providing online resources through Learning Management Systems (LMS) such as Moodle, available 24 X 7 to students.
- CCSD schools use a variety of technology tools, such as wireless laptop carts, classroom response systems, interactive whiteboards, and mobile learning devices (such as iPods). Baseline data was gathered by the Nevada Department of Education in the spring of 2010 and will be released in the summer of 2010.

- Teacher websites (my.ccsd.net) provide resources for students, such as blogs, videos, podcasts, identified websites, and practice problems and tests.
- Searching of library materials and websites that align to Nevada State standards and educationally appropriate websites on any topic, including materials in any library in CCSD (excluding Edison schools), can be found using the Destiny™ software. Destiny™ manages student/staff library circulation and is tied into our student information system, SASI. Schools also have the ability to use Textbook Manager to track and circulate textbooks if they choose.
- The District's parent communication system, ParentLink®, links parents and students to teachers' web pages and email addresses to help facilitate communication and provide quick access to online classroom resources.
- The District has implemented online course and credit retrieval opportunities for middle and high school students.

#### OBJECTIVES AND ACTION STEPS

1.2.1 Increase the integration of technology into core subject areas.

Action Step	Maintenance	Implementation and Reporting Timeline	Staff Responsible
Identify effective technology tools which have increased student achievement in the core content areas.		Ongoing-revise based on new standards	Curriculum and Professional Development
Survey level of technology use in line with Nevada State Survey via the Nevada Technology Equipment Survey.		March 2011	Curriculum and Professional Development: Math and Instructional Technology; Schools
Educational Computing Strategists (ECSs) will provide site-based professional development.		Ongoing	Curriculum and Professional Development: Math and Instructional Technology; Schools

# 1.2.2 Increase the use of technology in support of District initiatives.

Action Step	Maintenance	Implementation and Reporting Timeline	Staff Responsible
Develop an action plan based on current research to implement technology-based strategies to retain students in school.  • Graduate profile  • Schools Profile Database (SPD)		Ongoing	Curriculum and Professional Development
Provide training for elementary, middle, and high school teachers to use IDMS and other data systems to access student data for planning instruction in the core content areas and increase percentage of usage by 5% annually.		Ongoing implementation with reporting each January and June	Assessment, Accountability, Research and School Improvement: Instructional Data Systems
Provide training for teachers and other District staff for use of the Response to Instruction (RTI) Intervention Data Management System to facilitate data-based instructional decision making in the schools.		Initiate Spring 2011	Student Support Services Division

# 1.2.3 Develop and maintain systems to provide instructional content.

Action Step	Maintenance	Implementation and Reporting Timeline	Staff Responsible
Maintain districtwide web-based library management system.	х		Curriculum and Professional Development: Library Services; Technology and Information Systems: Networking Services
Maintain video distribution system and curriculum materials for schools to deliver broadcast and digital content.	х		Vegas PBS
Maintain single sign-on server, Vegas PBS' One Place, for easy access to online educational content.	x		Vegas PBS
Develop and maintain curriculum enrichment materials offered through InterAct™ and other online systems such as my.ccsd.net and ccsdtv.net.		Ongoing	Technology and Information Systems: Technical Resources; Curriculum and Professional Development
Deliver online high school credit-bearing course work for students.		Each Semester	Virtual High School

#### **Background 1.3: Support of Instructional and Administrative Processes**

The Clark County School District seeks best practices in the delivery of curriculum and supporting instructional and administrative processes. Some activities in this area include:

- Curriculum and Professional Development and Vegas PBS have developed a collection of video and other instructional resources for best practices in classroom teaching.
- A centralized database of school profile information, School Profile Database (SPD), related to programs, classes, and textbooks has been developed to provide comparative usage and performance statistics.
- Software and hardware selections have been made based on research showing positive results. Example technologies include applications such as *Read 180*, *Lexia*, *Compass Learning*, *Route 44*, and *Study Island*.
- Software, such as Microsoft Office and Easy Grade Pro, is provided to all schools for productivity and instructional support.
- The Wiki Teacher project has been developed for teachers to share their collective intelligence through lesson plans, unit plans, demonstration videos, and unwrapped standards.
- All CCSD curriculum documents are posted electronically in InterAct™, allowing for ease of revision and ease of access for teachers and administrators.
- Support documents for parents/guardians are available 24/7 on the CCSD website, such as: current scholarship information, Private Tutors, National ACT/SAT Test Schedule Dates, and Summer Enrichment Guide. (Curriculum and Professional Development Division, 2010)
- CCSD's parent communication system, ParentLink®, is available at all schools and provides grade, attendance, and other important school information online or via the telephone. A districtwide gradebook application, Easy Grade Pro, is offered to all CCSD schools.
- Vegas PBS TeacherLine allows teachers to share best practices, network and access high quality, post-graduate courses allowing them to expand and improve professional, subject area, and instructional knowledge.

## **OBJECTIVES AND ACTION STEPS**

1.3.1 Develop a list of recommended technology-based instructional tools, data or assessment tools and curriculum programs which support classroom instruction.

Action Step	Implementation and Reporting Timeline	Staff Responsible
Create a districtwide list of effective software to guide school- and department-based purchasing decisions.	2010-11 Mathematics 2011-12 Language Arts 2012-13 Science	Curriculum and Professional Development: Math and Instructional Technology
Research documentation that supports the use of recommended software and hardware and publish list via ECS Forum.	Updated December 2010, March and June 2011	Curriculum and Professional Development: Math and Instructional Technology, Literacy

1.3.2 New technologies will be sought, evaluated for effectiveness, and incorporated where appropriate.

Action Step	Implementation and Reporting Timeline	Staff Responsible
Pursue additional grant opportunities.	Ongoing	Student Support Services: Grants Development and Administration; Vegas PBS
Increase use of wireless handheld technologies for assessment such as iPods.	Ongoing	Curriculum and Professional Development: Literacy
Evaluate Pathway project currently at 27 schools; develop and distribute a best practices document from findings.	Through August 2011	Curriculum and Professional Development: Math and Instructional Technology
Research a comprehensive online leadership support software system for school-based administrators.	January 2011	Human Resources Division; Instruction Unit; Technology and Information Systems Services; Purchasing

GOAL 2: TECHNOLOGY WILL BE USED TO PROVIDE OPPORTUNTIES FOR HIGH QUALITY PROFESSIONAL DEVELOPMENT VIA MULTIPLE MODES OF ONLINE AND TRADITIONAL INSTRUCTION FOR ALL CCSD EMPLOYEES. (ALIGNED TO DISTRICT IMPROVEMENT GOAL 2)

#### **Background:**

The Clark County School District believes that all staff should have the requisite skills to be efficient and productive in their efforts to promote student achievement. To reach over 38,000 employees, CCSD uses various technologies and delivery methods to provide rich content and technology-related training. Some examples include:

- CCSD encompasses a geographic area of approximately 8,000 square miles; the District leverages technology to reach staff no matter their physical location. Online collaboration tools have been used to provide content classes for students, via distance learning and Virtual High School, and for teachers and staff through on-line and collaborative tools such as Video Conferencing, *Centra*, *Blackboard*, *Moodle*, and *Pathlore*.
- The Curriculum and Professional Development Division staff provides ongoing staff development focusing on the infusion of technology into the content areas. These trainings are offered in a variety of ways: face-to-face, through collaborative tools such as Centra, and online courses. A major effort has been made to move courses into an online environment to reduce the need for face-to-face time.
- The combined training areas of the Technology and Information Systems Services Division offer over 595 classes per year to District employees. These classes include business productivity software, student information systems, and technical applications.
- Technology-related professional development courses are available for salary advancement or recertification through Professional Development Education (PDE). Annually, approximately 1,257 teachers and administrators take advantage of these classes.
- Vegas PBS offers online graduate-level courses through TeacherLine along with other professional development opportunities, and site-based training and school-level training to teachers on how to incorporate digital instructional content.
- One-on-one support is provided to teachers at the school level by 228 Educational Computing Strategists (ECSs).
- An annual technology conference involves approximately 300 teachers and administrators.
- A districtwide Professional Development Consortium exists to share highlights, initiatives, and to keep one another informed.
- The Human Resources Division provides ongoing professional development incorporating multiple technology programs including Focus on Student Learning (FOSL), a classroom observation tool for school-based administrators, Centra online

training for support staff, Sub Hub for substitute teachers, Teachscape for teacher induction and mentoring, and support for TeacherLine through Vegas PBS.

## OBJECTIVES AND ACTION STEPS

2.1 Increase the quality of, accessibility to, and participation in professional learning for school-based staff, through the effective uses of technology in both online and face-to-face environments.

Action Step	Implementation and Reporting Timeline	Staff Responsible
Research and develop a survey to assess teachers', support staff, and administrators' technology skills.	Develop Survey Winter 2010 Survey Spring 2011	Curriculum and Professional Development: Math and Instructional Technology; Technology and Information Systems Services: Information Systems Training, Employee Business Training
Offer focused site-based professional development at school sites by Educational Computing Specialists (ECSs) to meet the identified needs.	Reported June 2011	Curriculum and Professional Development: Math and Instructional Technology
Use online resources to provide professional development activities for teachers and administrators.	Ongoing	Curriculum and Professional Development: Math and Instructional Technology; Vegas PBS; Human Resources Division
Provide training on incorporating technologies, such as digital video, in classroom instruction.	Ongoing	Vegas PBS; Curriculum and Professional Development
Continue professional development for ECSs focused on classroom integration.	Ongoing; bimonthly	Curriculum and Professional Development: Math, and Instructional Technology

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2.2 Increase the quality of, accessibility to, and participation in professional learning for non-classroom populations, through effective uses of technology in both on-line and face-to-face environments.

Action Step	Implementation and Reporting Timeline	Staff Responsible
Provide a technology course for administrators as part of administrator training.	Ongoing	Human Resources Division: Administrative Leadership Development; Technology and Information Systems Services: Information Systems Training, Employee Business Training; Vegas PBS
Coordinate an annual technology conference with administrator, teacher, and ECS strands.	Fall; annually	Curriculum and Professional Development: Math and Instructional Technology
Set expectations that provide training in technology skills for all professional development instructors.	Ongoing; monthly	Technology and Information Systems Services: Information Systems Training, Employee Business Training; Curriculum and Professional Development: Math and Instructional Technology; Vegas PBS; Human Resources Division
Expand online training and development courses for licensed, administrative, and support staff personnel. Develop eight (8) online courses.	Spring 2011	Technology and Information Systems Services: Information Systems Training, Employee Business Training; Human Resources Division: Licensed Personnel, Teacher Induction and Mentoring, Administrative Leadership Development, and Support Staff Training and Development; Curriculum and Professional Development

GOAL 3: THE USE OF TECHNOLOGY WILL BE EXPANDED TO ENHANCE COMMUNICATION AND IMPROVE BUSINESS PROCESSES FOR CCSD EMPLOYEES, STAKEHOLDERS, AND THE COMMUNITY. (ALIGNED TO DISTRICT IMPROVEMENT GOAL 3)

#### Background:

Keeping all stakeholders informed and involved is critical to the mission of the Clark County School District. In addition, improving business processes increases efficiency and reduces costs to CCSD. CCSD uses a variety of technologies to promote communication and improve business processes among stakeholders. Some examples include:

#### Communication

- Web sites have become a key source of information for the CCSD stakeholder community. District, department, school, and teacher websites provide a wealth of information including, but not limited to, activities, calendars, data, meetings, assignments, and news.
- A parent communication system implemented districtwide allows parents to follow student assignments, attendance, and grades and allows schools and central office the ability to send important messages to parents and students.
- A single districtwide standards-based report card is used throughout all elementary schools.
- A centralized management system for student and testing data provides accountability and progress information.
- A registration and tracking system, *Pathlore*, for professional development, permits all staff to register for professional development and monitor transcripts showing what they have completed.
- An intranet collaborative system provides email capabilities for all CCSD employees. This system also features conferences for site-specific or districtwide communications.
- Research is being done on new and emerging Web 2.0 technologies for improved communication and collaboration including, but not limited to, Open Text Social Media (OTSM) and Google tools.
- The multi-media digital production and technology resources of Vegas PBS resources provides broadcast, non-broadcast, digital and online programs to foster enhanced communications, professional development, and instruction.
- SmartFind is a human resources system used for the assignment and deployment of substitute teaching personnel within the CCSD.

#### **Business Processes**

- The Central Information Services (CIS) Web Portal enhances manual processes by creating web-based applications in the CIS Portal.
- CLASSxp reduces paperwork, data entry, and error through increased use in schools.

- Expanded use of the service desk tool for central IT departments enhances communication with business partners, provides visibility into service-related work, and improves efficiency.
- The purchasing process for non-standard equipment has been clarified and streamlined.
- Collaborations have been built with groups that purchase technology such as Title I, Student Support Services Division, Facilities Division, and Instruction Unit. Continued efforts are needed.
- The Human Resources Division has collaborated with Technology and Information Systems Services (TISS) and Assessment, Accountability, Research, and School Improvement (AARSI) to develop and enhance human resources technology programs to include licensure, staff, surplus/reassignment, and reduction-in-force processes.
- The TISS Division is working with various divisions to automate paper processes.

#### OBJECTIVES AND ACTION STEPS

3.1 Improve communication with parents/guardians through expanded use of technology.

Action Step	Implementation and Reporting Timeline	Staff Responsible
Increase the number of parent/guardian ParentLink® logins by 5% and add Transportation components to the system.	October 2010	Technology and Information Systems Services; Instruction Unit; Transportation
Expand teacher use of my.ccsd.net by 20% through training of ECS and Administrative School Staff. Teacher and school training will be offered by Employee Business Training and Technical Resource's Project Facilitators.	Summer 2011	Technology and Information Systems Services: Technical Resources; Employee Business Training
Research the use of Web 2.0+ technologies and their application to government-to-citizen communication.	June 2011	Community and Government Relations
Expand use of Vegas PBS technologies and capabilities in the following areas: production of all types of programming, public service announcements, use of online and video streaming resources.	June 2011	Vegas PBS; Curriculum and Professional Development

3.2 The CCSD Technology Division will enable interactive communications about technology initiatives, needs, and roadmaps throughout all CCSD divisions.

Action Step	Implementation and Reporting Timeline	Staff Responsible
A District technology committee will meet at least quarterly to envision, prioritize, plan, and recommend departmental initiatives, needs, and roadmaps for review by Executive Cabinet and approval by the Superintendent.	Ongoing	Technology and Information Systems Services
Annually review and publish supported District technology profiles.	Annually	Technology Research and Development Committee; Chief Technology Officer
Envision and plan a governance structure for technology acquisitions, policies, and implementation frameworks.	Ongoing	CCSD Technology Planning Committee; Executive Cabinet

3.3 Improve internal communication and collaboration using network-based technologies.

Action Step	Implementation and Reporting Timeline	Staff Responsible
Assess current uses of digital video and video conferencing systems and develop a plan to provide training and support to schools.	October 2010	Technology and Information Systems Services; Vegas PBS
Increase intra-District collaboration on best practices for using podcasts and student collaboration and online learning activities through advertisements, training webinars for teachers and administrators, and teacher showcases.	June 2011	Curriculum and Professional Development: Math and Instructional Technology; Technology and Information Systems Services; Vegas PBS
Research the use of Web 2.0+ technologies and their application for internal communication.	June 2011	Community and Government Relations
Research expanded employee professional development tracking, registration, and self-service systems that include integration with employee licensure, qualifications, professional development, and student achievement.	January 2011	Human Resources Division

3.4 Continue to automate business processes through data-driven decision processes, enhanced enterprise applications, and an increased number of web-based applications.

Action Step	Implementation and Reporting Timeline	Staff Responsible
Implement an Employee-Self-Service (ESS) application for payroll advice and W2 information.	December 2010	Technology and Information Systems Services; Operations Support Unit, Payroll
Implement a rostering system to reduce manual extracts of student data at the school level.	July 2011	Technology and Information Systems Services; Curriculum and Professional Development
Increase the use of CLASSxp for automated attendance recording at the elementary schools by at least 10 schools per year.	Annual Review	Technology and Information Systems Services; Instruction Unit
Replace the elementary Optical Mark Recognition (OMR) grading process.	April 2011	Technology and Information Systems Services
Pilot a virtualized desktop environment for classroom and lab computers.	January 2011	Technology and Information Systems Services
Pilot a consolidated/virtualized school server environment.	January 2011	Technology and Information Systems Services
Research and develop identity access management solutions.	Summer 2011	Technology and Information Systems Services
Research and develop automated teacher licensure reporting.	Summer 2011	Technology and Information Systems Services; Human Resources Division
Continue to convert paper reports and forms to electronic format by at least 3 per year.	Annually	Technology and Information Systems Services
Acquire and deploy an online Response to Instruction (RTI) Intervention Data Management System; finalize contract and develop business implementation plan.	Fall 2010	Student Support Services Division

Conduct a RFI process and review responses for a comprehensive, single web-based human capital management technology system, human resources management system (HRMS), that would encapsulate the timely tracking of applicants and employees to include the application process, background checks, onboarding, employee data management, etc., for all CCSD employees.	Fall 2010 and Ongoing	Human Resources Division; Operations Support Unit
Enhance the use of technology to facilitate the staffing process.	Ongoing	Human Resources Division; Assessment, Accountability, Research and School Improvement; Technology and Information Systems Services
Develop an online application and data collection system for support staff personnel.	Fall 2010	Human Resources Division; Technology and Information Systems Services
Develop and implement automated employee compensation processes in the contract file to enhance efficiency and accuracy and reduce labor costs.	Spring 2011	Human Resources Division; Technology and Information Systems Services
Conduct a RFP process and review responses for a human resources system for assignment and deployment of substitute personnel.	April 2012	Human Resources Division; Operations Support Unit
Collaborate with CIS to enhance the use of technology for licensed employee recruitment to determine recruitment needs.	Ongoing	Human Resources Division; Technology and Information Systems Services: Central Information Services
Continue the collaboration with CIS in developing a replacement database for the current Licensure Services Database with the ability to connect and share information with HRMS.	Ongoing	Human Resources Division; Technology and Information Systems Services: Central Information Services
Continue the collaboration with AARSI to complete the electronic Licensed Salary Report for the Nevada Department of Education.	Ongoing	Human Resources Division; Assessment, Accountability, Research and School Improvement; Technology and Information Systems Services: Central Information Services
Revise the licensed and administrative personnel applications so that technology is uniformly utilized to simplify and streamline the application process.	Ongoing	Human Resources Division; Technology and Information Systems Services
Refine and implement employee background check tracking system.	Summer 2010	Human Resources Division; Police Services; Technology and Information Systems Services

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# GOAL 4: THE CCSD TECHNOLOGY PLAN WILL BE REVIEWED AND EVALUATED ON A CONTINUAL BASIS WITH UPDATES CONDUCTED AS APPROPRIATE.

#### **Background:**

Part of the Clark County School District's active commitment to expanding technology is the understanding that goals and objectives must be regularly reviewed and evaluated to be effective. The Technology Division, in concert with District divisions, is developing a long-term technology vision to address current and emerging initiatives affecting technology use districtwide. Developing the vision will require regular input and review from stakeholders. As stated in the action steps under Objective 3.2, "A District technology committee will meet at least quarterly to envision, prioritize, plan, and recommend departmental initiatives, needs, and roadmaps for review by Executive Cabinet and approval by the Superintendent." These efforts will include:

- Reviewing school technology plans on an annual basis. (Appendix G)
- Building a stronger connection between the CCSD Technology Plan and the School Improvement Plans (SIP).
- Extending the CCSD Technology Plan to encompass current and emerging initiatives.

#### OBJECTIVES AND ACTION STEPS

4.1 Evaluate the alignment of various CCSD plans on a regular basis.

Action Step	Implementation and Reporting Timeline	Staff Responsible
Evaluate the alignment of the CCSD Technology Plan to the District Strategic Plan.	August 2011	CCSD Technology Planning Committee
Evaluate the alignment of the District Improvement Plan with the CCSD Technology Plan.	August 2011	CCSD Technology Planning Committee
Committee reviews the CCSD Technology Plan to produce revisions and corrections.	Annually, May	CCSD Technology Planning Committee
Evaluate alignment of site technology plans to their school improvement plans and to the CCSD Technology Plan.	Annually, February	Curriculum and Professional Development: Math and Instructional Technology

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# 4.2 Extend the CCSD Technology Plan.

Action Step	Implementation and Reporting Timeline	Staff Responsible
Review current data related to the CCSD Technology Plan to establish a baseline.	September 2010	CCSD Technology Planning Committee
Request input from prospective departments/divisions.	October 2010	CCSD Technology Planning Committee
Identify and prioritize current and emerging initiatives.	October 2010	CCSD Technology Planning Committee
Identify gaps through needs assessment.	February 2011	CCSD Technology Planning Committee
Develop a process for extending the CCSD Technology Plan.	March 2011	CCSD Technology Planning Committee
Update the CCSD Technology Plan.	May 2011	CCSD Technology Planning Committee
Formulate a process to engage new committee members.	May 2011	CCSD Technology Planning Committee

TECHNOLOGY PLANNING COMM	TECHNOLOGY PLANNING COMMITTEE	
Robert Alfaro	Instruction Unit Area 2	
Jennifer Andricopulos	Technology and Information Systems Services Division	
Loretta Asay	Curriculum and Professional Development	
Kim Boyle	Curriculum and Professional Development	
Carl Bunce	Technology and Information Systems Services Division	
Rene Cazier	Human Resources Division	
Jessica Cherry	Technology and Information Systems Services Division	
Robb Clough	Technology and Information Systems Services Division	
Loren Dale	Technology and Information Systems Services Division	
Jhone Ebert	Technology and Information Systems Services Division	
Dale Erquiaga	Community and Government Relations	
Kevin Fitzgerald	Office of the General Counsel	
Greg Halopoff	Technology and Information Systems Services Division	
Lenore Hemphill	Technology and Information Systems Services Division	
Bill Hoffman	Office of the General Counsel	
Dr. Lauren Kohut-Rost	Instruction Unit	
Stephanie Landeros	Human Resources Division	
Wes Lockhart	Technology and Information Systems Services Division	
Rory Lorenzo	Facilities Division	
Aaron Markovic	Assessment, Accountability, Research, and School Improvement	
Kimberly Mauk	Assessment, Accountability, Research, and School Improvement	
Jennifer Mayon	Human Resources Division	
Charles Sinicki	Vegas PBS	
Lee Solonche	Vegas PBS	
Karen Stanley	Curriculum and Professional Development	

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Randy Thomas	Technology and Information Systems Services Division
Kim Wooden	Student Support Services Division
Dan Wray	Technology and Information Systems Services Division
Andre Yates	Human Resources Division

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