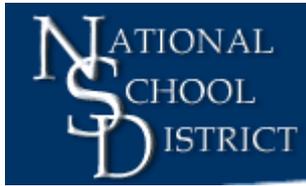




**SAN DIEGO COUNTY**  
**OFFICE OF EDUCATION**

**Project Extended Access**

**EDU 2011 Pilot Grant: WC Docket No. 10-222**



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## **Executive Summary**

In 2008, the National School District (NSD) took the visionary step of implementing a netbook-based pilot program to examine the impact of expanded access to technology on learning outcomes. Two years later, the NSD finds itself in the midst of an even more ambitious undertaking: the implementation of a private cloud portal across an entire elementary school district. Project Extended Access combines these intertwined initiatives to deliver educationally relevant content to students at their convenience, anytime, and anywhere.

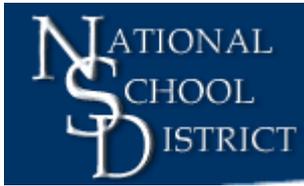
As the NSD looks to the future with plans to expand Project Extended Access, an integral component threatens to undermine the program goals for its most vulnerable participants: Internet access at home. With monetary support provided by the EDU 2011 Pilot Grant, the NSD can afford to provide the underserved students of the District with a broadband device, connection, and content both inside and outside the school walls.

## **CloudConnect**

In June of 2010, the National School District (NSD) and the San Diego County Office of Education (SDCOE) partnered to provide every student in National City with a personal web-based environment, called CloudConnect. CloudConnect allows pupils to extend their learning outside of traditional school hours. Unfortunately, not all students are able to realize the benefits of broadband Internet due to lacking device and/or connectivity access. Therefore, recognizing the critical nature of broadband Internet, the NSD/SDCOE partnership crafted a unique program to dramatically improve access, support, and training to high-achieving, yet underserved students. With the goal of eliminating the achievement gap and expanding the walls of the classroom, NSD and SDCOE see a unique opportunity utilizing Cloud Computing, Internet technologies, and 1 to 1 computing.

CloudConnect is a dynamic project designed to amplify learning opportunities through a customized and private Internet-based cloud-computing infrastructure. CloudConnect is achieved through a series of structured and sustainable methods that position the school at the center of the community, resulting in an innovative design that constructs an environment in which learning is no longer limited by the length of the school day or year.

CloudConnect empowers students, teachers, administrators, parents, and other users to connect to a digital environment complete with the resources they need to thrive in the 21st century global society. This project provides students a virtually infinite list of new opportunities including, but not limited to: virtual learning environments, online curriculum and training, community forums, and technical/career development. Specifically, NSD envisions more flexibility for classroom instructors with web-based curriculum and technology accelerators that can be utilized in the traditional classroom and/or at home. In essence, students will be given additional learning time because of the ability to access CloudConnect and complete teacher assigned activities with web-based applications.



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The CloudConnect project will provide access and support for our underserved, vulnerable, and disconnected populations. Through the program, we anticipate a significant rise in usage and demand for broadband Internet access, support, training, curriculum, and resources among all student populations; but for our most underserved populations, a strategic awareness campaign and comprehensive professional development solutions will be provided.

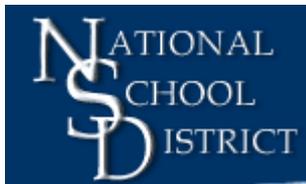
CloudConnect program objectives include: providing relevant online learning applications for learners, supplying a web-based infrastructure to support all learners, offering structured coaching and support for education leaders, developing a robust awareness campaign to support and propagate broadband benefits, providing rich educational content, expanding broadband adoption, and narrowing the achievement gap.

The awareness campaign, specifically targeting these vulnerable populations, is designed to address and inform individuals about the importance of broadband Internet access. The marketing and awareness campaign is designed to empower communities by distributing broadband information through multiple mediums, hosting community events, and personally training stakeholders how to use broadband to improve their lives.

### **Project Extended Access**

The CloudConnect online environment comprises just one half of NSD's Project Extended Access vision for technology integration. The second half deals with getting devices in the hands of all learners which confronts difficult issues related to equity of accessibility throughout the District. Individuals and specific populations where poverty is not as prevalent are able to learn, achieve, and communicate at a much faster rate simply because of their connection and at home support related to online resources. This equity issue is significant and growing at an alarming rate. The NSD is committed to proactively addressing this equity issue and the growing need for broadband resources by leaning on existing partners and forging new relationships with outside entities.

Two years ago the NSD initiated a pilot project utilizing netbooks across the District. The pilot took place in multiple grade levels across 3 classrooms in two schools and numerous valuable lessons about deploying Internet connected devices were learned. Built to allow use in mobile classrooms, specialized education, and instructional enhancement environments, the network was not necessarily intended to support large groups of users simultaneously accessing multimedia materials across the Internet, so 802.11g wireless access points were purchased, allowing increased localized bandwidth to accommodate the increase in wireless technology use and reduce network latency. Among other adjustments, this investment made mobile Internet projects as viable as those traditionally requiring physically connected devices.



The devices used in the pilot project were Hewlett-Packard Model 2133 Mini-Note PCs with 1024 MB RAM and 1.2 GHz processors. These devices were selected based upon their attractive combination of battery life, and durability. They have proven to be popular devices in those classrooms they were employed, but pilot participating teachers mentioned their lack of connectivity options and administrators wished for more comprehensive support availability.

Project Extended Access would utilize netbooks provided by the accepted proposal from SDCOE's Broadband RFP (see attached).

### **Project Extended Access Phases of Implementation**

Phase 1-October 2010 through January 2011:

- In this phase the NSD and SDCOE are working together to install the technical infrastructure and create the web-based interface NSD users will use. This includes registering new domains, creating student, teacher, and administrator accounts, programming Single-sign-on (SSO) for applications, building databases, and connection file services and directory services.

Phase 2-January 2011 through June 2011:

- This phase entails the implementation of Cloud Connect at El Toyon School for students, teachers, and administrators with current equipment. The second part of this phase will see the acquisition of 500 new 3G/WiFi netbook devices through vendor awarded SDCOE's Broadband Anywhere Request for Proposals (RFP).

Phase 3-July 2011 through December 2011:

- Utilizing El Toyon as a model, training for the use of CloudConnect and 1 to 1 netbooks will be rolled out to each of the other 9 schools' learning communities. This training will include the use of netbooks in the classroom to positively affect teacher instruction and the use of netbooks in the home environment. Community awareness will be ensured through presentations to City staff in National City including but not limited to the Mayor's office, City Council members, and community DAC/DELAC meetings.

Phase 4-July 2011 through December 2011:

- District wide teacher training will be rolled out in multiple phases throughout the academic year (initial and follow up) to understand how 1 to 1 computing and the Cloud can and will affect teacher instruction in the classroom and student assignments for completion at home.

Phase 5-December 2011 through January 2012:

- Acquisition of approximately 5,000 (the remaining students within the District minus El Toyon students) new 3G/WiFi netbook devices through vendor awarded SDCOE's Broadband Anywhere Request For Proposals (RFP). Deployment of machines and ongoing training for all staff related to CloudConnect for students at Central, Ira Harbison, Kimball, Las Palmas, Lincoln Acres, Rancho de la Nacion, Olivewood, John A. Otis, and Palmer Way Schools.



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### **Technical Issues Associated with Project Extended Access**

National School District's geographic location makes it a prime candidate for ubiquitous deployment of wireless access to students. Given its urban locale, the NSD has excellent coverage from all major wireless carriers in San Diego. Many carriers such as Verizon, AT&T, Sprint, and T-Mobile have a robust wireless infrastructure built in the area. Also, the District is 9 square miles, and a relatively flat topography which further enhances the wireless connectivity throughout the City.

**Condition:** Student surveys indicate that 79% of the students do not have access to a computer at home. Due to the low socioeconomic status of the majority of the homes in National City, most parents can either not afford to purchase a computer or cannot afford to upgrade their outdated systems to keep up with the constant sophistication of newer computer systems.

**Proposed Remedy:** With 85% of students qualifying for free and reduced lunches, paying for the available Broadband access is a challenge for the families. This initiative and proposal will address these challenges by allowing the NSD to apply their E-Rate discount (90%) to school purchased devices that are used by students at home and at school.

**Condition:** Current access for students in classroom limited to no more than 8 wired computers per classroom, limiting independent student access to network and internet services/curriculum in each classroom.

**Proposed Remedy:** Purchase wireless netbooks that have wireless broadband and wireless broadband modem capabilities to allow all-student independent network and internet access via both wired and wireless connectivity.

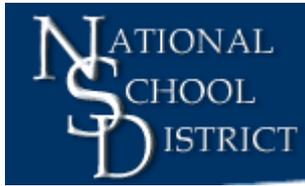
**Condition:** Current wireless access point density at each school site is inadequate to accommodate wireless student access at school and at present there is no wireless access for students at home to District resources for student.

**Proposed Remedy:** Increase wireless access point density at each school allowing for adequate speed and bandwidth for classroom connectivity. This will be accomplished via a combination of wireless broadband modem service from a national provider for home and school service as well an infrastructure augmentation of existing wireless broadband networking at each school site.

**Condition:** Potential violation of CIPA compliance with increased off-premise access

**Proposed Remedy:** In school student connections will run through District's Internet filtering appliance which conforms to CIPA regulations. Off-premise access will be routed through broadband service's CIPA-compliant Internet filtering.

District will initiate a uniform portal for students to access educational curriculum and internet links conforming to CIPA regulations. Using tools provided by a broadband service provider, the District will manage time allotted on the Internet for each student and "lockdown" all computers at specific times in evening, preventing non- educational child or



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adult access. Pre-lockdown web surfing will be tightly controlled by non-changeable device policies stored in device operating system.

**Condition:** Potential violation of student privacy for student records, grades etc.

**Proposed Remedy:** Students will have unique user IDs and passwords as well as secure individual "lock-boxes" to store assignments, files, reports etc. These lock boxes will be stored on encrypted high-security storage areas/cyber vaults.

## **Training**

Project Extended Access includes a professional development plan that leverages the abilities of CloudConnect to provide teachers with flexibility in lesson planning, digital literacy infusion, and professional growth. Our model of professional development and instruction accommodates the individual strengths and interests of teachers as well as meeting the needs of administrators, students, and parents. Teachers will utilize the CloudConnect environment to access an array of web-based instructional materials and collaborative capabilities. This environment, combined with a strong technology coaching program will provide the synergy to develop teacher proficiency in technology literacy and curriculum integration.

The technology coaching program, a component of the professional development plan, trains current classroom teachers as highly versatile facilitators of technology integration using a variety of effective and collaborative strategies. Examples include working with teachers individually and in small groups to assess and address their needs and concerns, co-teaching and modelling employing effective technology integration practices, planning and preparing materials for instruction, and observing classroom technology activities and providing feedback. Current research on teacher professional development indicates that given the right conditions, teacher coaching leads to higher and more sustained rates of implementation by teachers.

The professional training plan (PTP) of CloudConnect is a more traditional approach to professional development. Training sessions will be provided by SDCOE and NSD staff, focusing on the technical training aspects of the CloudConnect environment. During these sessions teachers, administrators, students, and parents will learn how to utilize the system for file storage, application access, student achievement information, home-school communication, etc. This model of technical training builds a foundation for further instructional technology coaching to work with teachers on curriculum integration and student achievement rather than the technical aspects of the system.

## **Impact of Technology on Instruction and Student Achievement**

We looked at the potential impact of technology on student achievement as we developed our CloudConnect/1 to 1 computing plan. Certainly, with the cost of most computers and other technological learning tools, impact on student achievement is an important consideration for a District as it looks for funds to invest in this effort.

The outcomes of the research into this area done by our technology committee concluded that for technology to make a lasting impact, educators must use a variety of teaching and learning approaches when utilizing technology in their classrooms. Time and again, the



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research comes back to the teacher as the most influential component of a successful technology program. Teachers must be given the time and resources to attend professional development opportunities on utilizing technology in the classroom. Schools should make the most of teachers who are "resident experts" that can offer on-site development opportunities and be used as one-on-one tutors for other faculty members.

## **Demographics**

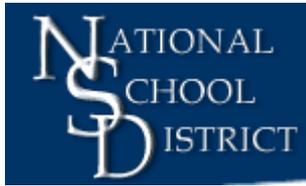
The proposed project will take place in National City, which is situated in San Diego county's South Bay, between the cities of San Diego and Chula Vista. The City is home to over 56,000 residents and covers approximately 9.2 square miles. National City is the most ethnically diverse jurisdiction in the county, and the only one with a majority Hispanic population (60%).

Located near the world's busiest international border crossing (San Diego, USA ~ Tijuana, Mexico), National City is characterized by problems typical of border communities, such as transience, low socioeconomic expectancy, high crime rates, intense gang activity, and substance abuse. According to Census 2000, more than a third of the population is foreign born, with 60% bilingual and/or multi-lingual. Membership in an identified ethnic group does not in itself constitute a risk factor. However, in an area so close to the Mexican border, many first generation immigrant parents have limited resources and minimal English skills, making it difficult to find employment, access resources, and maintain connections with their youth who have their feet in both cultures.

Children of immigrants often grow up straddling two cultures, not feeling truly rooted in either. Some youth say they feel ashamed of their parents' lack of English, low education levels, poverty, and perceived powerlessness and "un-American-ness". National City has the County's highest unemployment rate at 20.7%, compared to the County rate of 11.0% (CA EDD, March 2010). It is also the poorest City in San Diego County, with an average household income of \$43,098, compared to \$65,443 for the region (SANDAG 2009). 22% of National City families live below the poverty level. The City has the largest average household size in the County (3.53 persons per household), with 27% of the population aged 0 – 17. It also has the highest adult illiteracy rate in the state.

Youth in National City face many serious challenges. A survey conducted by the Chamber of Commerce ranked youth problems as one of the top issues in the area. The 2003 Workforce Partnership School-to-Career Youth Council's 'Regional Youth Mapping Project' singled out youth in this region as particularly disadvantaged in terms of future options due to basic skills deficiencies and having the County's lowest labor force participation. Proximity to the Mexican border means there is a ready supply of cheap drugs and alcohol available to minors, and substance abuse is a significant problem. The region's birth rate, 31 births/1,000 females, tops the county-wide rate of 24/1,000, with the Hispanic teen birth rate significantly higher (52/1,000). Approximately 20% of the families in the South Bay are single parent (15% women, 5% men), compared to 15% countywide. These combined factors result in high levels of delinquency, juvenile crime, gang activity, and substance abuse among teenagers.

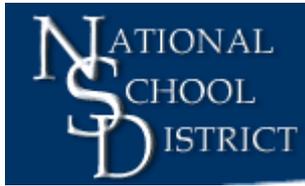
More than eighty percent of the families in our community are Hispanic, and our K-6 grade school population is 79% Hispanic. Limited English Proficient students (LEP) make up 66% of the total school population. All of our ten schools have been designated as Title I, and the



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percentage of students receiving free/reduced meals is the highest in the South San Diego County at 85%. It is estimated that more than 25% of the children in our District are living in poverty, and that number approaches 50% when you consider children living in single parent (female) households (Catholic Healthcare West, San Francisco).

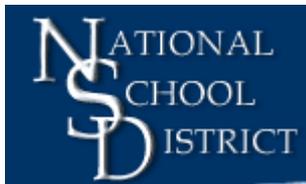
In spite of the economic and language challenges, District students continue to make strong academic gains. All ten elementary schools ranked a '10' in the state's similar school ranking. A history of incremental growth in all academic areas over the last ten years has allowed six of our ten schools to be identified as California Distinguished Schools and an additional two schools have been earmarked as Title I Academic Achievement award sites. The District's mantra, "Assuring academic success for every child by name" has set the tone for this on-going academic success.



**Projected Budget**

National School District					
Projected Technology/Erate expenditures					
Internal Connections- Hardware					
Yr 2011-2012					
12/1/2010					
			Erate	Erate	
<b>Project</b>	<b>Scope</b>	<b>Erate</b>	<b>Non-discounted cost</b>	<b>Discounted cost</b>	<b>Cost to District</b>
Wireless LAN upgrade for 1 to 1 computing	All schools				
Hardware		Yes	\$1,000,000.00	\$100,000.00	\$100,000.00
Labor for installation and configuration	All schools	Yes			
@ 2400/day; 20 days			\$48,000.00	\$4,800.00	\$4,800.00
Basic Maintenance of internal connections	All schools	Yes	\$267,000.00	\$26,700.00	\$26,700.00
Enterprise switch replacement	Kimball	Yes	\$50,000.00	\$5,000.00	\$5,000.00
Blade server expansion	District NOC	Yes	\$1,425,000.00	\$142,500.00	\$142,500.00
Wireless broadband	All schools				
450 students/site; \$35/mo,\$420/yr ea.					
\$189,000/site, 10 sites		Yes	\$1,890,000.00	\$189,000.00	\$189,000.00
Netbooks	All schools	No	N/A	N/A	\$375,000.00
approx. 500/site;10 sites @ 75.00/ea.					
		<b>TOTALS</b>	<b>\$4,680,000.00</b>	<b>\$468,000.00</b>	<b>\$843,000.00</b>

less  
netbooks: \$468,000.00



The Technology Planning Committee has identified a set of projects that will allow the District to meet the goals and objectives of this plan. The budget estimates in this section are based on experience with similar efforts. More detailed estimates, based on clearly defined requirements, are necessary to create requests for services. This information is presented to reflect the scale of the financial commitment required over a period of 2 years to implement the projects described.

Wireless LAN upgrade for 1 to 1 computing will increase the transfer speed of communications from the individual school sites out to the Internet. Cost of this project should be reduced by discounts from the Federal E-Rate Funding Program, and is contingent upon the District receiving this 90% discount.

Non-discounted rate: \$1,048,000.00

Discounted rate: \$104,800.00

Support services are critical for the successful implementation of our 1 to 1/CloudConnect initiative. The District will continue to develop the capacity of our site technology specialists to provide on-site technical support. This project will continue to require support services throughout the District. The District will budget about \$120,000 a year, beyond the salaries of an information technology department, toward support services for school-level technology. This computes to \$1,000 dollars per month, per school. This figure should remain constant over the next three years.

The software to ensure successful implementation of the web-based applications should be grade-level appropriate and support standards-based instruction. This project will identify, procure, and administer Internet-based applications such as SuccessMaker, Accelerated Reader, and Imagine Learning English. The District will budget approximately \$25,000 per year for software costs related to providing access through CloudConnect.

Develop Standards-based Technology Lessons \$25,000

Developing lessons for teachers to implement will further the buy in that staff members have with the CloudConnect/1 to 1 initiative. This money will be used for stipends and release time for District teachers as well as outside consultants.

Data Management System – BubbleSoft and Data Warehouse

Training staff in the use of assessment data and item bank use, through the web is critical for its successful integration into the curriculum. CloudConnect supports the staff development needs stated in this plan. This includes funding for substitutes and release time for teachers.

Professional Development cost per school year: \$140,000.00

Cost to be sustained for three academic years to ensure the successful implementation of Cloud computing and 1 to 1.

Establishing model classrooms in the District where there is a 1:1 student to computer ratio will require money to implement. The table below summarizes the anticipated costs tied to this effort.

1:1 Computing: \$30,000.00

Cost to be sustained for three academic years to ensure the successful implementation of Cloud computing and 1 to 1.



### **Off-Premise Connectivity**

Support for off-premise connectivity will create a substantially increased need for off-hours support staff, which could adversely affect District budgeting. The District will need to hire and train at least ten to fifteen support employees to accommodate a projected 10% of the proposed 5000 potential users that may call in at any given time for technical support on any given day. The District does not presently have the resources in staffing or budget to accommodate this increase. A solution to provide the level of technical support the District will require would include contracting for said support services to a third-party service provider that has trained staff to handle the expected types of technical support and is facile in providing multi-language support services. This solution is far superior to a student-based help system, where training and customer service skills would have to be imbued with the students to provide an effective support service and would take many hours of training to do so which is not practical in our K-6 educational environment.

To achieve the District's goal of a true one-to-one technology device density supporting educational initiatives at the District, a number of factors must be considered:

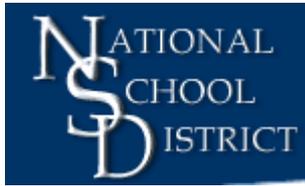
- ability to connect all users to the District intranet and the "cloud" internet
- current infrastructure to do so
- hardware/software required to achieve connectivity goals
- cost to connect
- management of devices for CIPA compliance and asset management

In consideration, traditional desktop deployments to achieve District connectivity goals are impractical due to the physical space, cost and infrastructure requirements to do so. Netbooks are more practical from a physical space and infrastructure management standpoint, as they are a self-contained unit with video, network and keystroke/mousing capabilities. Other solutions such as thin-client require separate components which are more costly and impractical from an infrastructure standpoint to set up. A combination of wireless broadband services for off-site, after-hours connectivity, coupled with an augmented District wireless WAN with greater bandwidth and throughput capabilities provides a cheaper, more mobile and easily scalable solution that recent approaches to increased connectivity such as thin-client deployments cannot match.

In order to ensure compliance with the Children's Internet Protection Act (CIPA), student connections will run through the District's Internet filtering appliance which conforms to CIPA regulations. Off-premise access will be routed through broadband service's CIPA-compliant internet filtering.

National School District will also initiate a uniform portal for students to access educational curriculum and internet links conforming to CIPA regulations. The District, using tools provided by the broadband service provider, will manage time allotted on the internet for each student and "lockdown" all computers at a specific time every evening, preventing non-educational child or adult access. Any pre-lockdown web surfing will be tightly controlled by non-changeable device policies stored in the device operating system.

The National School District is offering Internet access for District employees, students, and parents of NSD students who qualify as a result of participation in an orientation or training



course, or can demonstrate knowledgeable use. National School District strongly believes in the educational and administrative value of such electronic services and recognizes the potential of such to support our curriculum and student learning as well as administrative uses both at school and at home. Our goal in providing this service is to promote educational and administrative excellence by facilitating resource sharing, innovation, communication, and extended learning experiences. National School District will make every effort to protect employees, students, and parents from any misuses or abuses as a result of their experiences with an information service. All users must be continuously on guard to avoid inappropriate and illegal interaction with the information service.

**District Schools**

Preschool Center  
2401 East 24th Street  
National City, CA 91950  
Phone: (619) 336-8670  
FAX: (619) 336-8673

District Offices  
1500 N Avenue  
National City, CA 91950  
Phone: (619) 336-7500  
FAX: (619) 336-7550

Central School  
933 E Avenue  
National City, CA 91950  
Phone: (619) 336-7400  
FAX: (619) 336-7455

Lincoln Acres School  
2200 Lanoitan Avenue  
National City, CA 91950  
Phone: (619) 336-8600  
FAX: (619) 336-8655

El Toyon School  
2000 E. Division Street  
National City, CA 91950  
Phone: (619) 336-8000  
FAX: (619) 336-8055

Rancho de la Nación School  
1830 E. Division Street  
National City, CA 91950  
Phone: (619) 336-8100  
FAX: (619) 336-8155

Ira Harbison School  
3235 E. 8th Street  
National City, CA 91950  
Phone: (619) 336-8200  
FAX: (619) 336-8255

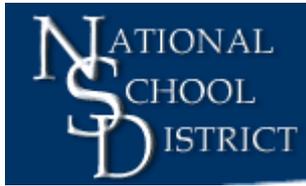
Olivewood School  
2505 F Avenue  
National City, CA 91950  
Phone: (619) 336-8700  
FAX: (619) 336-8755

Kimball School  
302 W. 18th Street  
National City, CA 91950  
Phone: (619) 336-8300  
FAX: (619) 336-8355

John A. Otis School  
621 E. 18th Street  
National City, CA 91950  
Phone: (619) 336-8800  
FAX: (619) 336-8855

Las Palmas School  
1900 E. 18th Street  
National City, CA 91950  
Phone: (619) 336-8500  
FAX: (619) 336-8555

Palmer Way School  
2900 Palmer Street  
National City, CA 91950  
Phone: (619) 336-8900  
FAX: (619) 336-8955



District/School Applicant	Entity Number
National School District	143626
Central School	103749
El Toyon School	103745
Ira Harbison School	103748
John A. Otis School	103753
Kimball School	103756
Las Palmas School,	103754
Lincoln Acres School	103758
Olivewood School	103759
Palmer Way School	103755
Rancho de la Nación School	103746

### **Concluding Summary**

National School District (NSD) is a public school District with ten elementary schools serving preschool through sixth grades, with a student population of approximately 5,800. Our District has a rich history, reaching back 125 years, making it one of the oldest school Districts in the County.

We know that simply adding technology to a learning environment does not ensure that it will be integrated effectively. We believe that the use of technology in the curriculum should support higher level learning, problem solving and critical thinking skills and directly support the student’s mastery of State content standards across all content areas.

We will continue to raise the level of technology integration in the learning experience for all students. Using educational technology tools will become a regular part of how students and teachers work on core curriculum learning. We want to see a measurable impact of technology on student achievement. Students should become better readers, writers and mathematicians because of their interaction with classroom technology and this learning will extend beyond the classroom walls. Teachers will use technology tools to assist them in making good instructional decisions for their students. The evaluation that we did as part of our technology planning effort has assisted us in identifying several areas of focus that will serve as the cornerstone of the Technology Plan for the District. This plan will address how the District’s technology effort will continue to support the curricular needs of students over the next three years – encompassing the 2011-2012 school year through the 2013-2014 school year.

Planning for high performance learning begins by focusing on student learning. California State curriculum standards must be aligned with student technology standards. Once this alignment has taken place, the District will be better prepared to plan for staff development and infrastructure management.

Our curriculum goals are divided into four areas:

1. Integrate technology tools/equipment to support student learning and to aid teachers in the delivery of the core curriculum



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2. Use assessment data to guide student learning activities and lesson plan development for all classrooms
3. Identify appropriate software and courseware to support the instructional program of the entire District
4. Continue to increase student achievement in Language Arts and Mathematics as a primary focus, and as the plan progresses, in other curricular areas such as Science, Social Studies and the Arts as well

State and local accountability requires that all students meet NCLB performance targets in Language Arts and Mathematics content standards. To this end, the District has adopted high quality standards-based instructional materials and pacing guides to assist teachers to meet these benchmarks.

The CloudConnect initiative allows for a unique level of data reporting that goes beyond what other Districts and institutions are able to track, measure, and report. CloudConnect reports are specifically designed to help educators make informed decisions regarding specific program usage and effectiveness. Example reports available to NSD include, but are not limited to: Application tracking by school, user group, school site, or grade level; metrics detailing specific time of day students are accessing applications; whether the students are logging in from school or away from school, and calculating the return on investment (ROI) for any specific application based on the price paid per month or year.

With these measures in place, and paired with the committed faculty and staff of National School District, we are optimistic about the future of technology and learning in National City.