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Memo

To Board of Education

From Antwan Wilson, Superintendent
Mia Settles-Tidwell, Chief Operations Officer
John Krull, IT Officer, Technology Services

Board Meeting Date August 13, 2014

Subject 2014-2018 Technology Plan Summary

Action Requested Receive presentation of 2014-2018 Technology Plan

Background Leaders from Technology Services, Leadership, Curriculum & Instruction (LCI), Quality Assessment, & Accountability (QAA) and Family School Community Partnership (FSCP) led the engagement for the new technology plan. The plan is built with data from engagements for: a) “Tech Readiness” for Common Core and online testing, b) the Gates Foundation NextGen Systems Personalized Learning planning grant (file# 132788), c) the plan for \$6.9 million in one-time money for Common Core implementation from the California Department of Education (CDE) (file# 14-0031), d) the district plan for the California Organization to Reform Education (CORE) waiver (file# 13-2340), and e) the Local Control Accountability Plan (LCAP) (file# 14-0097). These engagements allowed district leaders to reach out to many stakeholders, while not namely for the “Technology Plan,” to learn about what is needed to create a plan to improve the role and impact of technology on teaching and learning for all students.

The full technology plan must follow a prescribed format as it dictated by the CDE who ultimately reviews and approves the plan. The required plan design is intended for long-term district planning for how technology will improve teaching and learning and does not focus extensively on operational use of technology. The plan is not for financial approval for any projects, but is rather a planning document. An approved plan is required for some funding including Microsoft

Vouchers and E-rate.

While the planning time covered much of 2013 and 2014. Work on upgrading infrastructure and adding devices in the district did not wait for the completion of the plan. Recently, with Board approval, the district purchased and provided approximately 10,000 Dell Chromebooks to improve the availability of equitable, supportable, and standardized computers at all district schools (file# 14-0031), began work on upgrading the network infrastructure for 44 schools (files 14-01643, 14-01644) which includes all West Oakland STEM Corridor schools, and all schools received an upgrade to their Wide Area Network (WAN) and Internet connections (file# 13-0549). The Board also approved a contract that started in summer 2014 to greatly increase Internet connectivity (file# 14-0436) for all sites.

Discussion

The 2014-2018 Technology Plan outlines the plan to improve the technology infrastructure in support of teaching and learning based on feedback from multiple stakeholders. Improving technology infrastructure includes: an increase in wireless access points, access to more computers and devices, instructional technology professional development, and increased support to schools for anywhere, anytime access to resources on the Internet. It outlines how the district will provide an administrative, teaching, and learning platform that ensures safe, appropriate, and ethical access to data, information, and resources for all students, staff, and teachers. The plan outlines the strategy for improved communication between home and school and among stakeholders. The plan details professional development and support objectives and benchmarks. The overall plan was approved by the board in June 2014, staff will continually monitor progress and needs and keep the Board abreast of changes.

Recommendation

The Board of Education receives a summary the 2014-2018 Technology Plan.

Fiscal Impact

The plan itself is for long-term planning has no fiscal impact. This item is not seeking approval for any said projects, but rather approval for the general direction of technology planning in the district. Any projects with fiscal impact received (see last paragraph of Background) or will seek board approval separately.

Attachments

OUSD Tech Plan Summary Slide Deck
OUSD Tech Plan Executive Summary

August 7, 2014

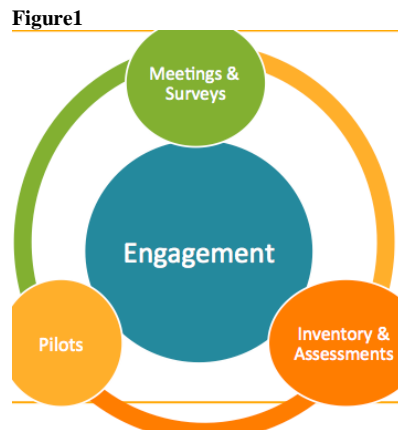
TO: Board of Education

FROM: John Krull, Information Technology Officer;
Mia Settles-Tidwell, Chief Operation Officer

RE: Overview of Technology Plan

The Oakland Unified School District is committed to graduating all of its students, college, career and community ready. In this technological age and as we shift to the Common Core, it is imperative that we provide students a 21st century educational experience which rests on a plan for technology.

The Technology Services team conducted multiple engagements with many stakeholders to assess the infrastructure, devices, wireless access, bandwidth, and professional development needed to bring our schools to the highest standards around technology. Figure 1 illustrates the methods of collecting data that were part of engagements for the Common Core, Online Testing Readiness, a Personalized Learning planning grant, and the Local Control Accountability Plan (LCAP).



It is evident how far we must go to provide students an equitable, supportable, sustainable, and robust technology infrastructure that will support the teaching and learning required under the Common Core.

Technology Services set the mission to build and support the best possible technology systems, tools, and infrastructure to create an equitable and supportable learning environment for all students. The following priorities were set to reach our goals: Student Learning, Equity & Access, Productivity, Data and Assessment, Supporting Teachers & Staff, Infrastructure, and Data Safety, Security, and Ethics.



Student Learning

It is imperative that we implement a platform of learning resources that embrace and maximize the flexibility and power of technology to reach all students with differentiated needs. The platform will help us promote Personalized Learning as an instructional focus and ensure that OUSD has the infrastructure to support it. We have a responsibility to engage the community both locally and globally to develop our students as technology leaders thereby creating college & career pathways (partner with Linked Learning). To achieve equity, we must use technology to enhance instructional initiatives such as Science, Technology, Engineering, and Math (STEM) learning and Digital Media Arts. Hence, this will enable students to use technology to demonstrate authentic learning and 21st century skills, including demonstrating proficiency in meeting existing state-adopted standards and new Common Core State Standards.

Infrastructure

The technology plan's principle tenant is to ensure all schools have broadband access to the Internet and wireless connectivity. The plan also includes a strategy to ensure every student and educator has at least one Internet access device and appropriate software to use in and out of school. Finally, the plan further requires a secure wire/wireless network environment and endpoint protection district-wide.

Equity and Access

To achieve equity, the plan describes first an equal approach to technology by adopting **standards** for technology across school sites. Then assessing the equity needs of schools by prioritizing areas such as the West Oakland STEM Corridor for increased in broadband access to the Internet and wireless connectivity. Furthermore, engaging in strategic partnerships with organizations like OTX West to refurbish and distribute free computers for home access to students and families in need, providing free and low cost broadband access in homes, and working with the Oakland Recreation Centers and libraries to provide greater access and programming.

Productivity

Technology Services plans to provide technology tools for productivity and efficiency across the District that includes upgrading older technologies and providing new systems for Human Capital, Data, and Content Management.

Data and Assessment

Data and Assessments are key to ensuring every student thrives. The plan includes linking data systems so that we obtain timely student information as we transition to a new assessment and reporting platform for more meaningful data analysis. Data systems are linked, and appropriately available. The implementation of a data warehouse and business intelligence tool will provide longitudinal data analysis and dynamic reports that can pull data from multiple source systems (IFAS, Aeries, SEIS, etc.)

Support Teachers and Staff



All the infrastructure and systems require excellent support, training, and professional development. In collaboration with Technology Services and Leadership, Curriculum, and Instruction (LCI) professional development for our Instructional Technology Teacher Leaders (ITTL) at each site will create a condition of success for online testing and teaching and learning. Educators and students have access to technology-based content, resources, and tools.

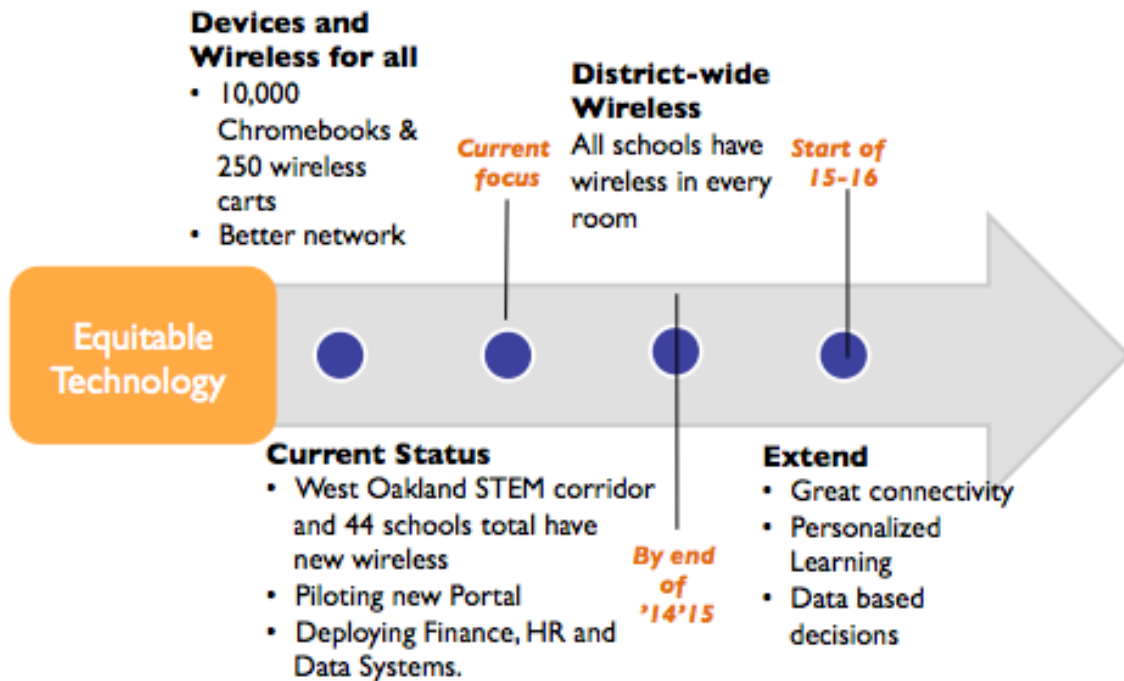
Data Safety, Security and Ethics

All systems are maintained with an eye on Data Safety, Security and Ethics. Part of the plan is to educate teachers and students about appropriate, safe, and ethical use of information technology (e.g. Cyber bullying, risks related to social networking sites and chat rooms, etc.) The district has a plan to protect the security and confidentiality of personal information of its students and staff, including security measures for servers located at school sites.

Timeline

This technology plan covers four years: July 1, 2014 – June 30, 2018. All major initiatives will be complete in this timeline and each has funding from sources including one-time state funds, federal E-rate funds, Measure J funds, and the general fund. Note that the district will have new state-of-the-art wireless in every classroom before the end of school in 2015 to ensure *Every Student Thrives!*

Figure 2



Technology Plan Executive Summary

July 1, 2014 – June 30, 2018



OAKLAND UNIFIED
SCHOOL DISTRICT

*Community Schools,
Thriving Students*

Oakland Unified School District

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Oakland, CA 94609
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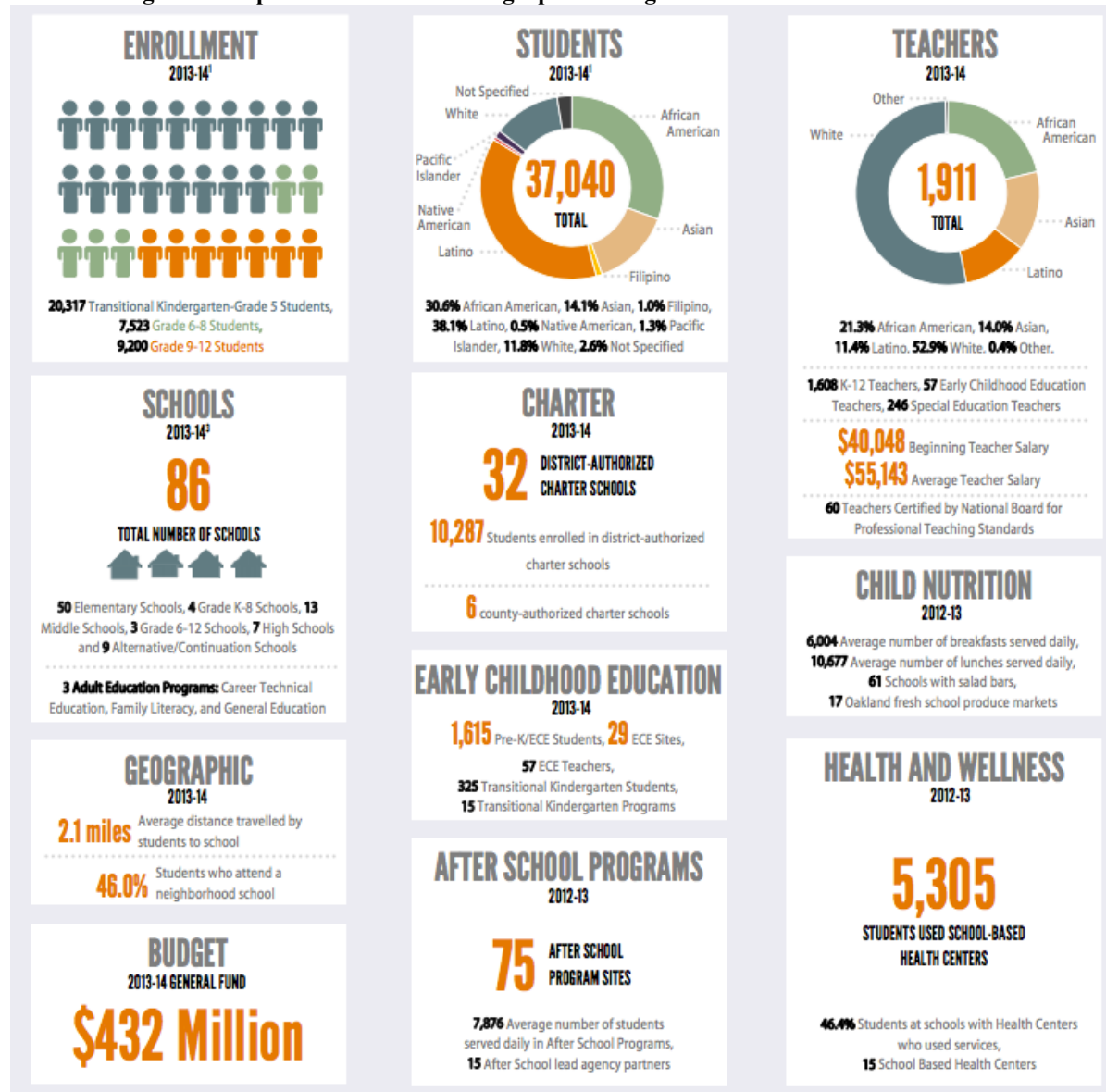
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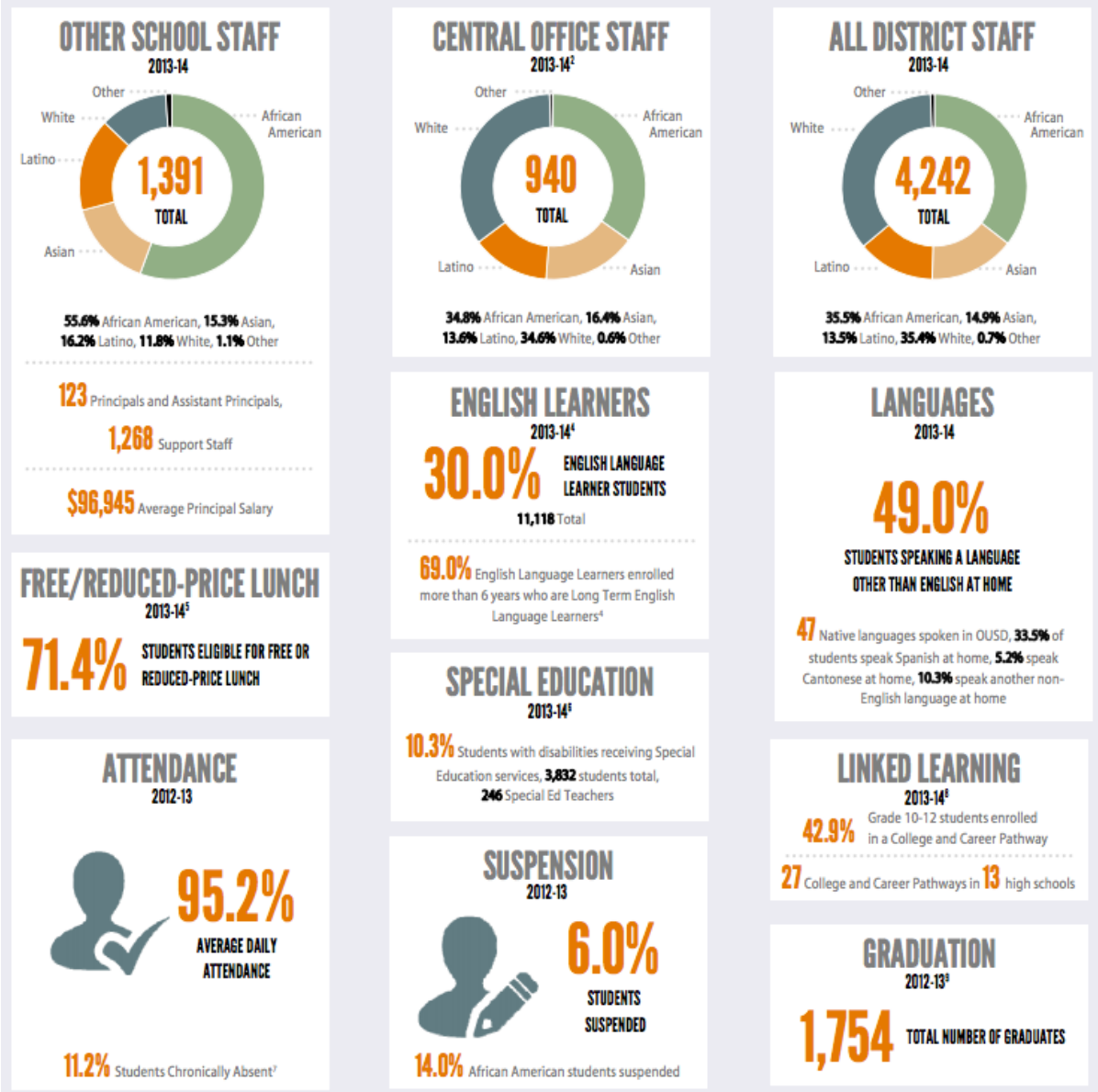
<p>Primary Contact & Technical Contact: John Krull, Information Technology Officer 1011 Union St. Oakland, CA 94609 john.krull@ousd.k12.ca.us (510) 879-8872 www.ousd.k12.ca.us</p>	
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About the District Described in This Plan

The Oakland Unified School District (OUSD) is the State of California’s most improved urban school district over the past eight years, as measured by Academic Performance Index (API), California’s primary metric for measuring student achievement. During this time, the District’s students have benefited from 128 points of API growth and a focus on the whole child embodied by OUSD’s “Community Schools, Thriving Students” vision of a full-service community school district. In this model, every school site offers high levels of learning along with physical health, mental health, dental and eye care; nutrition, physical education, recreation, before-school and afterschool programs; housing, employment, parenting and language acquisition courses and a range of other programs. Social and human services are not seen as extra or add-ons in these schools. Instead, collaboration in service of children and families is how they consistently behave.

The following charts capture the District demographics at a glance.





District Mission Statement

Oakland Unified is in the process of transitioning to a new paradigm that is based upon building safe and high quality full service community schools. The intent of this program is to move to a system that supports students in a structure that includes equity of access to resources so that every student will have high quality, effective instruction and be prepared to succeed in college and careers. The support system would be a comprehensive continuous and linked series of programs that include educational, social, and medical services.

The District’s five-year strategic plan, Community Schools, Thriving Students envisions the development of each Oakland public school into a Full Service Community School (FSCS) within a Full Service Community District as an essential goal to carrying out its vision of graduating each student college and career ready. Many elements of the School Quality Improvement System (CORE Waiver) have been initiated in OUSD. The strategic plan is the foundation for the work of the district and the strategic work of the plan is in strong alignment with CORE waiver work areas.



Technology Vision

All Oakland students graduate college, career, and community ready

Technology Mission

Build and support the technology systems, tools, and infrastructure for students, staff, and community to create the best possible equitable and supportable learning environment for all students

Priorities

- Student Learning
- Equity & Access
- Productivity
- Data and Assessment
- Support Teachers & Staff
- Infrastructure
- Data Safety, Security, and Ethics

Student Learning

- Implement a platform of learning resources that embrace and maximize the flexibility and power of technology to reach all students with differentiated needs
- Ensure that students have information access anytime and anywhere
- Promote Personalized Learning as an instructional focus and ensure that OUSD has the infrastructure to support it
- Engage the community both locally and globally to develop our students as technology leaders thereby creating college & career pathways (partner with Linked Learning)
- Use technology to enhance OUSD priority instructional initiatives such as Science, Technology, Engineering, and Math (STEM) learning and Digital Media Arts
- In partnership with LCI, maximize what it means to “Go Google” in every classroom, i.e. all of the instructional uses of Google Apps for Education

Equity and Access

- The District adopts minimum **standards** for technology for each level across school sites.
 - Standardization of hardware with customization as needed
- The District utilizes **private-public partnerships** (including Mayor’s Office, non-profits and community based organizations) to fill gaps of access for students.
 - Refurbished and free computers from OTX West,
 - Solicit computer donations from private industry
 - Provide free and low cost broadband access in homes
 - Work with Oakland Recreation Centers and Libraries to provide access and programming
- The District provides sufficient resources to meet the needs of students.
 - Prioritize funding for technology.
 - Provide staff to support technology.
 - Provide staff development for technology.

Productivity

- Provide technology tools for productivity and efficiency across the District
 - Upgrade older technologies to current versions (IFAS, Edusoft, etc.)
 - Deploy new technologies for Human Capital, Data Warehouse, etc.
 - Integrate technologies to streamline processes and facilitate reporting
 - Continue smoothly running key operations (Payroll, CALPADS, etc.)
 - Deliver on minor projects as they arise - CSSSP updates, etc.
 - Provide timely and efficient support on issues escalated to Applications
 - Maintain and expand tools for students and families (Aeries AIR, etc.)
- Enable students to use technology to demonstrate authentic learning and 21st century skills, including demonstrating proficiency in meeting existing state-adopted standards and new Common Core State Standards
 - Provide integrations between EdTech/Productivity tools and Aeries, etc.
 - Support data needs as related to EdTech tools
 - Support integration between Aeries and assessments (SBAC/TIDE, etc.)

Data and Assessment

- Transition to a new assessment and reporting platform that gives timely and actionable feedback for formative and summative assessments with meaningful data analysis.
- Support LCI and QAA in using assessment data to engage and motivate students
- Data systems are linked, and appropriately available.
- Implement Google Drive back up and monitoring tools.
- Implement data warehouse and business intelligence tool to provide longitudinal data analysis and dynamic reports that can pull data from multiple source systems (IFAS, Aeries, Special Ed, etc.)
- Implement data sharing, storage and usage best practices and policies.
- Increase usage of collaboration and communication tools.

Support Teachers and Staff

- Educators and students have access to technology-based content, resources, and tools
- Operations acceptance of Chromebooks support
- Coordination of systems roll-outs for instruction
- Use collaboration technologies to develop communities of practice
- Help Desk system where all parties are engaged for incidents, service & project needs.
- Dashboard or summary of site & program information
- Pilot systems support for district wide compliance
- Provide professional learning experiences powered by technology
- Partner with LCI and Operations on training
- Use video resources and technology to connect and share
- On-Boarding efficient and complete

Infrastructure

- Ensure students and educators have broadband access to the Internet and wireless connectivity both in and out of school

- Every student and educator has at least one Internet access device and appropriate software to use in and out of school
- Facilities have appropriate electrical capacity, wiring, and cooling to support technology
- Ensure a secure wire/wireless network environment and endpoint protection for district-wide

Data Safety, Security and Ethics

- The district will educate teachers and students about appropriate and ethical use of information technology. Topics include cyber bullying, potential risks related to social networking sites and chat rooms, and strategies for dealing with these issues.
- All students, staff, and parents understand the District policies for technology, communication, and data.
 - The district has a CIPA-compliant Acceptable Use Policy (AUP) regarding Internet and network use. The policy is updated as needed to help ensure safe and ethical use of resources by teachers and students
- All students and staff have safe and appropriate access to the Internet
- District data is secure yet available.
- The district has a plan to protect the security and confidentiality of personal information of its students and staff, including security measures for servers located at school sites.

1. PLAN DURATION

This technology plan covers four years: July 1, 2014 – June 30, 2018.

2. STAKEHOLDERS

Oakland Unified School District's IT Officer has led the development of this technology plan with the EdTech Committee which includes members from Technology Services, Leadership, Curriculum & Instruction, and Assessment. This current plan extends the concepts from the previously approved plan (2011-2014) and adds data from work in Fall 2013 including the NextGen Systems Personalized Learning planning grant, response to the award of \$6.9 million in one-time money from the California Department of Education for Common Core implementation (Common Core), and the OUSD plan for the California Organization to Reform Education (CORE) waiver. Engagement and work from the 2013 initiatives, NextGen Systems, Common Core, and CORE waiver allowed the Education Technology Team, with members from across the district to reach out to many stake holders, while not namely for the "Technology Plan" to learn about what is needed to improve technology's role in curriculum and student success.

Input for this Technology Plan was most recently combined with gathering input for "Tech Readiness" for the Common Core and Smarter Balanced Assessment Consortium's (SBAC) online testing and the subsequent Chromebook Deployment engagements and the Gates Foundation Next Gen Systems planning grant for Personalized Learning. The feedback from these particular initiatives were fitting for developing and up-to-date Technology Plan.

Meetings about Tech Readiness and the Next Gen Systems personalized learning initiative included formal presentations to and feedback from the cabinet (top district leadership), the PAC, the Board of Education, all principals, district staff invited to Chabot Elementary school, edtech advisory group, and parents and community members at a Family School Community Program (FSCP) engagements.

Likewise feedback was drawn from input for the CORE waiver implementation as well as the Local Control Accountability Plans prepared for the Local Control Funding Formula instituted in 2013-2014.

In 2013-2014, the Ed Tech committee with members from Technology, LCI (Leadership, Curriculum & Instruction) and QAA (Quality, Accountability, & Assessment) worked together combining work for the NextGen Systems Personalized Learning planning grant, Common Core, SBAC readiness, CORE Waiver, LCAP, and the Technology Plan.

3. Curriculum

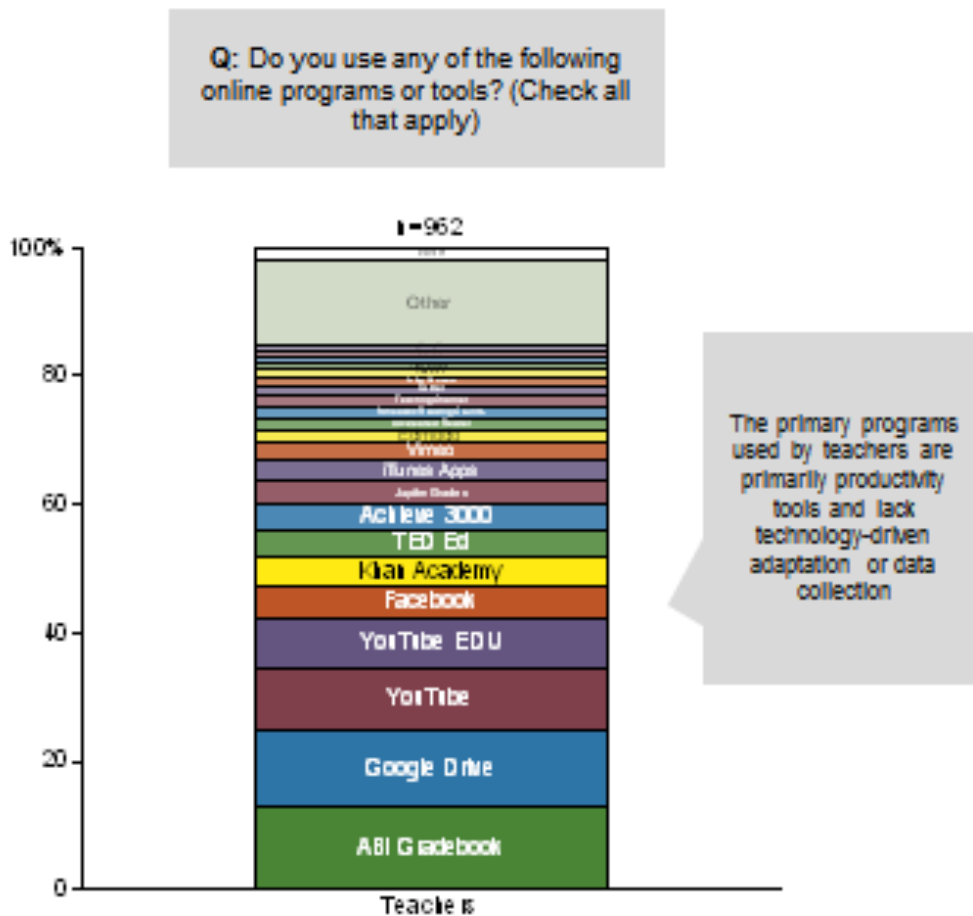
All schools are committed to all students attaining the academic and non-academic skills and knowledge necessary to be an educated person in the 21st century.

The District is committed to helping all students meet grade level expectations. Schools have intervention programs in place to assist students in need of extra help (and their families). Examples of interventions include after school programs, specialized assistance during the school day, summer school, grouping practices within the classroom, and many more. We count on parent support and student commitment to make sure all students meet these higher expectations.

Oakland Unified School District's Local Education Agency (LEA) Plan 2008-2014

Goal: Students regularly access online resources and applications that improve and personalize learning.

The following chart shows the use of Electronic Learning resources as reported in Fall 2013.



Source: OUSD SBAC Readiness Survey, 2013

Goal: All teachers will use software and technology to support the Common Core State Standards and personalized learning.

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Collaborate with Rogers Foundation's Next Generation Learning Collaborative personalized learning grant	July 2014 – June 2016	Participation	Director of Technology
Offer workshops on applications to support personalized learning	July 2014 – June 2018	Workshop surveys	Education Technology Specialist
Launch OUSD1 for Learning Management System, grade book, and parent portal	July 2014 – June 2018	Surveys	Principals
Launch Professional Learning Communities (PLC's) on personalized learning	July 2014 – June 2018	PLC surveys	Education Technology Specialist

Goal: The Oakland Unified School District staff and students will have the electronic learning resources needed to meet its curricular needs

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Roll out staff and student Office 2012/ MS 365 and Google Apps	July 2014 – December 2015	Report to Principals	IT Officer
Purchase base software necessary for Common Core Standards	July 2014 – June 2016	Report to Principals	Principals
Evaluate applications and services for Common Core Standards and purchase as necessary	July 2014 – June 2018	Report to Principals	Education Technology Specialist
Purchase additional Chromebooks for Personalized Learning and SBAC testing as needed	July 2014 – June 2018	Report to Principals	IT Officer

Goal: Students will acquire technological and information literacy skills, including cybersafety

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Adopt ISTE NETS*S	2015-2016	Standards adopted	Education Technologist

Goal: Appropriate and Ethical Use of Technology

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Offer all students and staff cyber ethics, copyright, Fair Use, and FIRPA training. (Available on the District’s Risk Management training site and approved student curriculum and materials)	2014-2015	Report on workshop evaluations	Education Technologist
Offer all students and staff cyber ethics copyright, Fair Use, and FIRPA training. (Available on the District’s Risk Management training site and approved student curriculum and materials)	2015-2016	Report on workshop evaluations	Education Technologist
Distribute appropriate and ethical use of information technology materials to all students	2015-2016	Report on delivery	Education Technologist
Mandate acceptance of the Acceptable Use Policy for all	2014-2017	Report	
Update web resources for ethical use, copyright and Fair Use	2012-2016	Report	

Goal: At all times, all students will have safe access to Internet sites they need for instruction and learning

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Review with students the Acceptable Use Policy	September 2014 – June 2018	Report completion of reviews to Principals	Teacher / Principal
Conduct classroom lessons about Internet safety, including cyber bullying, social networking, chat rooms, how to protect online privacy, and avoiding online predators using District approved materials	September 2014 – June 2018	Survey students after presentations	Teacher / Principal
Principals visit classrooms and monitor usage to monitor compliance	July 2014 – June 2018	Monthly reports	Principals
Certification of completion will be completed by each teacher, reported to the principal, and verified by the IT Officer	June 2015 – June 2018	Review certifications	IT Officer

Goal: Record Keeping, Assessments, and Data-based Decision Making

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Build and implement data governance and culture	Summer 2014 - 2015	Survey staff	Assistant Superintendent QAA
Purchase and set up data warehouse	September 2014 – June 2015	Report	Assistant Superintendent QAA
Deliver reports via data warehouse	Summer 2015	Survey stakeholders	Assistant Superintendent QAA
Launch Data warehouse	July 2015 – June 2017	Survey participants	Assistant Superintendent QAA

Goal: Personalize learning with active use of data

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Study EDUSOFT replacement	Summer 2014	Schedule review	Director of QAA
Evaluate new Data tools	July 2015 – June 2017	Review panel	Director of QAA
Implement new Learning Management and Student Information System	July 2015 – June 2017	Survey staff	IT Officer
Implement online testing for Common Core – SBAC (CAASP)	January 2015 – June 2017	Principals report	Principals

Two-way Communication between Home and School

Goal: All Schools, sites, and departments have a web presence to facilitate two-way communication between home and school

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Train staff on website options School Wires	Summer 2014, 2015, 2016	Survey participants	Communications Department
Offer staff workshops in website use and blogging	July 2014 – June 2016	Survey participants	Communications Department
Monitor website development Monitor website usage	July 2014 – June 2016	Post website dashboard at each site of active websites	Communications Department
Continue training via online screen casts	July 2014 – June 2016	Survey participants	Communications Department

Goal: All schools will use District email for teacher, parent, and student communication

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Offer Train the Trainer workshops on effective use of email in schools, including handling spam	Summer 2014, 2015, 2016	Survey participants	IT Officer
Offer staff workshops on effective use of email in schools, including handling spam	July 2014 – June 2016	Survey participants	Principals
Pilot OUSD1- New Learning Management System, grade book, and Parent Portal	July 2014 – June 2016	Survey participants	IT Officer
Investigate new SIS, assessment system, learning management system	July 2014 – June 2016	Survey participants	Technology staff

4. PROFESSIONAL DEVELOPMENT

Goal: Each teacher and administrator uses technology to enhance his/her success, as demonstrated by the self-assessment survey.

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Complete self-assessment survey	July 2014 – June 2016	review of survey	Education Technologist
Offer training modules that address the needs found in the survey	July 2014 – June 2016	review of survey	Education Technologist
Compare survey results with the baseline data	July 2014 – June 2016	review of survey	Education Technologist
Report results to all stakeholders	July 2014 – June 2016	Annual report	IT Officer

Goal: All education staff will receive training on how to access and interpret student data to inform instruction

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Implement Data Warehouse for principals and District Office	July 2014 – June 2015	Survey	Assistant Superintendent of QAA
Continuous Assessment System and SIS training	July 2014 – June 2017	Survey	Assistant Superintendent of QAA
Implement Data Warehouse for principals and District Office	July 2015 – June 2016	Survey	Assistant Superintendent of QAA
Data modeling training	July 2015 – June 2017	Survey	Assistant Superintendent of QAA

5. INFRASTRUCTURE, HARDWARE, TECHNICAL SUPPORT, AND SOFTWARE

Infrastructure-Hardware-Technical Support and Software

Driven by curriculum-centered objectives, OUSD specifies a core set of technical capabilities and network services to be provided. We implement an infrastructure that enables students and to easily use technology and online resources to achieve their academic goals.

Networking and Telecommunications Infrastructure

Internet Access

Internet access is through dual fiber optic connections at 10 Gb each. All schools are networked to the Technology data centers by a Wide-Area Network (WAN) connections described in the table below.

Table 5.1. WAN Data Connectivity upgrade plans

School Type	WAN speed 2013	WAN speed 2014	WAN speed 7/2015
Elementary	20 Mb/sec	100 Mb/sec	1 Gb/sec
Middle Schools	50 Mb/sec	200 Mb/sec	1-5 Gb/sec
High Schools	100 Mb/sec	500 Mb/sec	1-5 Gb/sec

Internal Connections

All sites have internal wiring capable of 1 Gb./sec. All sites have wireless, but at varying levels. The following sites have state of the art wireless in every classroom and workspace as of the end of August 2014.

- | | |
|--------------------------------|----------------------------|
| Markham | Bella Vista |
| Parker | Greenleaf Elementary |
| Community United Elementary | Emerson |
| Sobrante Park | Lafayette |
| ACORN Woodland | Manzanita Seed |
| Hillside Academy | Manzanita Community School |
| Encompass | Martin Luther King Jr. |
| ASCEND | PLACE @ Prescott |
| International Community School | Sankofa |
| Think College Now | West Oakland Middle School |
| Frick | Roosevelt |
| Madison | ROOTS |
| Elmhurst Community Prep | United for Success |
| Alliance Academy | Coliseum Prep |
| Brewer | Urban Promise |
| Hoover | Dewey |
| Arroyo Viejo CDC | Life Academy |
| Lockwood Pre K | Oakland International High |
| Lockwood CDC | Howard CDC |
| Brookfield | Lakeview CDC |
| Webster Academy | |
| Futures Elementary | |
| Horace Mann Elementary | |

The following sites have state of the art wireless in every classroom and workspace as of the Spring 2015. Before that, they have some wireless and roaming carts with state of the art wireless.

Allendale Elementary	Fred T. Korematsu Discovery Academy	Community Day HS
Burckhalter Elementary	Esperanza Elementary	Rudsdale Continuation
Chabot Elementary	Bridges Academy	Burbank Preschool Center
East Oakland Pride Elementary	Rise Community	Bella Vista CDC
Cleveland Elementary	Reach Academy	Brookfield CDC CDC
Crocker Highlands Elementary	Claremont Middle	Reach/Cox CDC
Global Family	Bret Harte Middle	Garfield CDC
Franklin Elementary	Community Day Middle School	International CDC
Fruitvale Elementary	Montera Middle	Emerson CDC
Garfield Elementary	Westlake Middle	Jefferson CDC
Glenview Elementary	Melrose Leadership Academy	Centro Infantil CDC
Grass Valley Elementary	Castlemont High	Laurel CDC
New Highland Academy	Fremont High	Martin Luther King Jr CDC
Hillcrest Elementary	McClymonds High	Yuk Yau CDC
Laurel Elementary	Oakland High	HR Tubman CDC
Lincoln Elementary	Oakland Technical High	Manzanita CDC
Joaquin Miller Elementary	Skyline High	PLACE @ Prescott CDC
Montclair Elementary	Ralph J. Bunche High	Hintil Kuu Ca CDC
Peralta Elementary	Street Academy (Alternative)	Sequoia CDC
Redwood Heights Elementary	Arts School - Oakland Technical	Stonehurst @ Korematsu CDC
Sequoia Elementary	Fashion Academy	United Nation @ La Escuelita CDC
Thornhill Elementary	Independent Study, Sojourner Truth	Allendale CDC
Carl B. Munck Elementary	Tilden ES (admin currently)	Acorn Woodland/Encompass CDC
Hoover Elementary	Lakeview (admin currently)	Bridges CDC
Kaiser Elementary	Cole MS (admin curently)	Sankofa CDC

Devices

The District has over 10,000 Windows and Apple computers distributed all school sites. All schools have at least one computer in the classroom and access to a computer lab.

The District set a minimum and recommended standard in 2014 for computers. The minimum standard is what is supported while the recommended standard is what should be purchased. Both are adequate for the Common Core testing requirements. The minimum standard is an Intel Dual Core or Core 2 Duo processor, 1 GB Ram, 80 GB hard drive and either at least Windows 7 or Macintosh OS 10.8. The recommended standard is an Intel i3 processor, 160 GB hard drive, Windows 8 or Macintosh OS 10.9. Computers that do not meet the minimum standard are either removed from inventory or receive a sticker that they are not supported.

The District purchased 9000 Chromebooks to help schools replace current outdated computers and to prepare for Common Core testing. The rate of replacement is planned on a five-year cycle.

Since 2011 the District has moved to a virtualized server environment as much as possible. Additionally, new antivirus and filtering equipment was purchased in order to comply with the Children's Internet Protection Act.

Additional Infrastructure Needed

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Implement cloud file storage	2015-2016	Check user lists and report	IT Officer
Implement Google Apps and Microsoft 365	2015-2016	Check user lists and report	IT Officer
Implement web sign-on with Google ID	2015-2016	Check User lists	IT Officer

Goal: Ensure Equitable Technology Access for All Students

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Implement 10,000 Chromebooks across all schools	July 2014 – June 2015	Report usage	IT Officer
Train teachers in using Chromebooks and mobile technology for personalization	July 2013 – June 2016	Report training schedule	Education Technologist
Teach students to use Google Apps as a foundation platform learning	September 2015- June 2018	Measure student usage	Education Technologist
Teach students to use a variety of online applications for personalized learning	September 2015- June 2018	Measure student usage	Education Technologist

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Hire Education Pioneer Fellow to lead the effort	July 2014 – December 2014	Create Plan	IT Officer
Implement plan to measure technology and Internet access	January 2015 – March 2015	Report of access	IT Officer
Implement protocols for offering students and parents devices and Internet access for the home	January 2015 – June 2015	Report by Principals	IT Officer
Pilot 1-1 initiatives	July 2015 – June 2017	Report by Principals	IT Officer

Implementation Plan Activities	Timeline	Monitoring/ Evaluation	Responsible Party
Evaluate SBAC field test experience from survey data	Summer 2014	Report to Principals	IT Officer
Complete infrastructure upgrades so every classroom has 802.11 n and ac capability and every site has minimum 1GB connectivity	July 2014 – July 2015	Report to Principals	IT Officer
Create menu of educational applications that schools can utilized	July 2014 - June 2015	Report to Principals	Educational Technologist
Create a platform and professional development for Personalized Learning	July 2014 – June 2018	Report to Principals	Educational Technologist