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CSD Technology Plan 2022-23 Update



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<u>Agenda</u>

- CSD Technology Plan Overview
- Tech Plan Update: Year 4
 - 1. Then... now
 - 2. Successes
 - 3. Moving Forward
- Funding Technology: 5 Year Plan

CSD Technology Plan Overview

Initiative 1: Digital Curriculum, Tools, Data & Assessment Initiative 2: Instructional Practices and Professional Learning

Initiative 3: Infrastructure, Hardware, and Security

- <u>CSD Technology Plan</u> contains three initiatives and spans five years.
- CSD Board approved Tech Plan on May 2019
 - Did not include approval for funding



<u>2018</u>

- **Student access to tech** varied by site, grade level, and classroom
- **Student data privacy** largely depended on teacher's ability to vet, teach and monitor digital tool usage

 Ability to access student data (academic, social-emotional, behavioral) to establish and monitor interventions was cumbersome and time consuming, spread out among several tools

<u>2023</u>

- Student access to tech is more equitable consistent across sites, grade levels and classrooms
- **Student data privacy** safeguards in place:
 - Process to vet tools
 - Curriculum for teaching DigCit
 - Tool for monitoring safe classroom use
- Ability to access student data (academic, social-emotional, behavioral) to establish and monitor interventions simpler with data available in a single tool: Data Dashboard



<u>2018</u>

• **Technology PD** limited to district/site PD

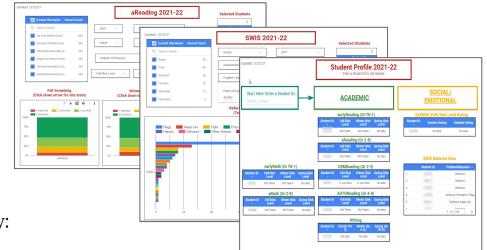
- **Teacher classroom tech** varied by site, grade level and teacher
- **The network infrastructure** was aging, difficult to manage remotely, suffered from security vulnerabilities.

<u>2023</u>

- Technology PD available on-demand and self-paced, and incorporated in district PDs. Bigger focus on effective use of technology. Site-based Technology Integration Mentors (TIMS) team established.
- **Teacher classroom tech** is consistent across sites, grade levels and teachers
- **The network infrastructure** is updated top-to-bottom, built for remote management, robust security and backup

Successes Initiative 1: Digital Curriculum, Tools, Data & Assessment

- Data Dashboard
- Support implementation of digital curriculum, assessments, and tools
- Vetting digital tools for student data privacy: <u>App Responsibly!</u>
- Digital Citizenship Curriculum: <u>Common</u> <u>Sense Media Digital Citizenship Curriculum</u>
- Assessment and progress monitoring support for Professional Learning Communities

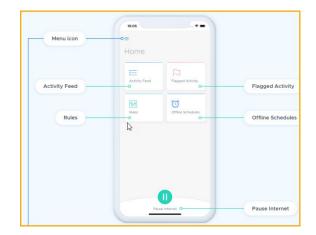






Initiative 2: Instructional Practices and Professional Learning

- Teacher Leadership: TIMS (Technology Integration Mentors) Team
- Digital monitoring tool to facilitate student work in the classroom - Securly
- On-demand, self-paced Digital professional learning platform: Alludo
- Embedded EdTech PD in District PD







Initiative 3: Infrastructure, Hardware, and Security

• Student Devices: equitable access

- 1:1 (student:Chromebook) ratio grades 2-8
- 3:1 (student:iPad) ratio grades TK-1
- Middle School Student Device Take Home Program
- Classroom Standard Equipment: Macbook, Display, Doc Camera, Apple TV

Improved network security infrastructure

- Two-factor authentication
- Cloud Backup
- Endpoint detection and response
- Password management
- VPN for remote access
- Cameras in server rooms



Initiative 3: Infrastructure, Hardware, and Security

• Improved remote support processes and mobile device management (MDM) software

• Replaced end-of-life...

- Servers leveraged virtualization
- Wireless access points all sites
- Network switches all sites
- Backup power supplies
- Fiber cable upgrade all sites
- Ethernet cable upgrade (CAT5 to CAT6a)

Transitioned to 10GB Dark Fiber Ring Internet through SCCOE

_ Looking Forward:

Priorities for Recommended Inclusion in 2022-23 CSD LCAP*

In Progress

- Technology and Innovation Mentors Program (TIMS).
 - Effective use of digital tools in the classroom
- Support PLCs: Data Dashboard and FastBridge Universal Screener
- Transition to FinalSite website platform (content management system)
- Community outreach: Digital literacy, Internet safety
- Site visitor system implementation
- Investigate failover Internet options

• Exploration

- Technology PD:
 - Evolving role of AI in education
- Tech standards (<u>CSD TSS</u>)
 - Revise based on new CA Computer Science standards
- Establish district baseline for MakerSpace support
- Student-led tech: Tech support (e.g. Mouse Squad) and student passion projects

*Local Control and Accountability Plan: The LCAP is the district plan for all programs and services.

Looking Forward: Device Ratio: iPads

- ★ Current iPad ratio for grades TK-1 \rightarrow 3:1 students:iPad
 - Original intent to allow small group work

\star Issues with current ratio - feedback from teachers

- \circ Online assessments take longer \rightarrow instructional time sacrificed
- Group projects, project based learning, etc. require 3 students to share a single device → productive collaboration more difficult
- Limits flexibility for grouping no option for larger groups \rightarrow limits access to tech
- Digital portfolio management more difficult with multiple users on the same device → more time spent by teacher and student managing portfolios

★ Proposal: Move to 2:1 students:iPad

- Improves <u>instructional</u> access to tech
- Improves productive time on tech without necessarily increasing overall time
- \$60K investment over 5 year period

S Year Budget Plan for Technology -Details <u>Tools/Platforms Annual Cost</u>

| Tools/Platforms Categories | Annual Cost |
|----------------------------|----------------|
| Communication | \$39,500 |
| Network Infrastructure | \$330,882 |
| Staff Support | \$123,263 |
| Student Information | \$115,316 |
| Grand Total | \$608,961/year |

Hardware Updates

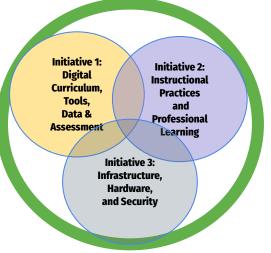
| Hardware Category | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2023-2028 | Grand Total |
|---------------------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-------------|
| Classroom Equipment | | | \$100,000 | \$168,000 | | | \$100,000 | \$368,000 |
| Network Infrastructure | | \$530,000 | | \$440,000 | | | | \$970,000 |
| Student Devices | \$155,075 | \$13,600 | \$254,550 | \$958,250 | \$243,525 | \$254,150 | \$15,000 | \$1,894,150 |
| Grand Total | \$155,075 | \$543,600 | \$354,550 | \$1,566,250 | \$243,525 | \$254,150 | \$115,000 | \$3,232,150 |

Summary 5 Year Budget Plan for Technology Summary

2023 2024 2025 2026 2027 2028 2023-2029 **Grand Total** Hardware \$155,075 \$543,600 \$354,550 \$1,566,250 \$243,525 \$254,150 \$115,000 \$3,232,150 Tools/ \$608,961 \$608,961 \$608,961 \$608,961 \$608,961 \$608,961 0 \$3,653,766 Platforms Grand Total \$764,036 \$1,152,561 \$963,511 \$2,175,211 \$852,486 \$863,111 \$115,000 \$6,885,916

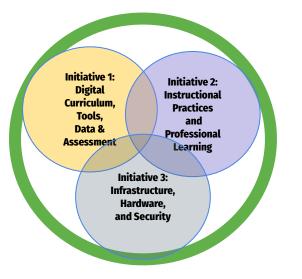
Total

CSD Technology Plan Update



Resources • CSD Technology Plan Thank you!

CSD Technology Plan Update



Appendix Goal-by-goal status assessment



| 1 | 2 | 3 | 4 | 5 |
|--|---|--|---|---|
| Exploration/ Research | Beginning Development | Initial Implementation | Full Implementation | Full Implementation |
| Phase - exploring/researching possible solutions | - solution/plan identified - work is underway to implement plan | significant/primary portion of plan or solution is implemented. being used in a limited way or by a limited set of users e.g. pilot | baseline plan/solution is fully implemented and in use. gathering feedback and evaluating effectiveness putting procedures in place to ensure sustainable | and Sustainability - full implementation. Cycle of updates based on feedback/evaluation |

Initiative 1: Digital Curriculum, Tools, Data & Assessment

| Goal 1.1: Access to digital literacy skills per ISTE Standards for Students | 1 2 3 4 5 |
|--|-----------|
| <u>Goal 1.2</u> : Utilize technology to meet diverse needs of all learners | 1 2 3 4 5 |
| Goal 1.3: Support implementation of digital curriculum, assessments, and tools | 1 2 3 4 5 |
| <u>Goal 1.4</u> : Integrate technology with the intention to create a culture of innovation that fosters student growth | 1 2 3 4 5 |
| <u>Goal 1.5</u> : Use data to identify and inform program needs, personalize learning and support MTSS achievement teams | 1 2 3 4 5 |
| Goal 1.6: Create process for effective evaluation of supplemental digital curriculum | 1 2 3 4 5 |
| <u>Goal 1.7</u> : Empower students by building capacity to support teachers with technology integration in the classroom | 1 2 3 4 5 |
| <u>Goal 1.8</u> : Educate students in making responsible digital choices through integration of Digital Citizenship lessons into PBIS. | 1 2 3 4 5 |

Initiative 2:



-Instructional Practices and Professional Learning

| ۲ | <u>Goal 2.9</u> : All school sites adopt <u>CSD Technology Skills Scope</u> <u>and Sequence</u> (CSD TSSS) to support equitable access to Next-generation learning for all students. | 1 | 2 | 3 | 4 | 5 | • |
|---|---|---|---|---|---|---|---|
| ۲ | <u>Goal 2.10</u> : Provide a digital professional learning platform and online forum to share best practices and personalize "just in time" learning for all staff. | 1 | 2 | 3 | 4 | 5 | • |
| ۲ | <u>Goal 2.11</u> : Build staff collaborative capacity and empower teachers to provide or facilitate professional learning opportunities around integration of educational technology and innovation. | 1 | 2 | 3 | 4 | 5 | |
| ۲ | <u>Goal 2.12</u> : Provide teachers with digital monitoring tools to facilitate, guide, and manage student online work to ensure digital learning opportunities meet intended objectives. | 1 | 2 | 3 | 4 | 5 | • |

Initiative 3: Infrastructure, Hardware, and Security

