



CSD Technology Plan 2020-21 Update Technology Task Force

<http://bit.ly/20On0FG>



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March 23, 2021



Overview

Agenda

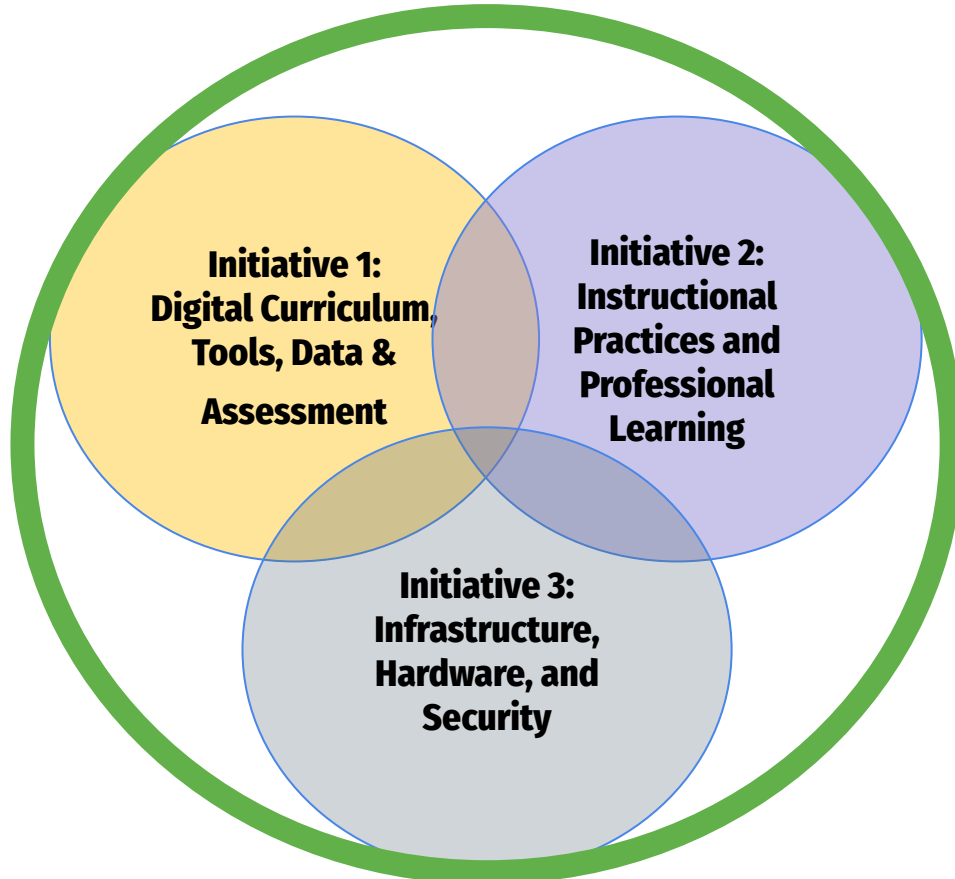
- CSD Technology Plan Overview
- Factors Affecting Progress
- Rating Progress
- Updates
 - **Initiative 1:** Digital Curriculum, Tools, Data and Assessment
 - **Initiative 2:** Instructional Practices and Professional Learning
 - **Initiative 3:** Infrastructure, Hardware and Security
- Funding Technology
- Key Messages
- Resources

Goals

- Update CSD stakeholders
- Discuss feedback and ideas
- Share key messages and directions moving forward



CSD Technology Plan Overview



- [CSD Technology Plan](#) contains three initiatives and spans five years.
- CSD Board approved Tech Plan on May 2019
 - Did not include approval for funding or resources
- CSD Technology Plan stipulates a yearly review of progress in the spring with a Technology Committee



Factors Affecting Progress and Priorities

- COVID 19: Distance Learning
- Competing priorities
- Limited resources (Time, Budget, People)
- Items prioritized based on...
 - Impact on student learning
 - Urgency of need
 - Resource availability
 - Complexity of implementation



Rating Progress

1

2

3

4

5

Exploration/ Research Phase

- exploring/researching possible solutions

Beginning Development

- solution/plan identified
- work is underway to implement plan

Initial Implementation

- 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

Full Implementation

- baseline plan/solution is fully implemented and in use.
- gathering feedback and evaluating effectiveness
- putting procedures in place to ensure sustainable

Full Implementation and Sustainability

- full implementation. Cycle of updates based on feedback/evaluation



Initiative 1: Digital Curriculum, Tools, Data & Assessment



Vision: Empowering Student Learning Through Technology

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



Initiative 1: Digital Curriculum, Tools, Data & Assessment



Successes

- Expanding access to personalize learning tools in Distance Learning



- Support implementation of new digital curriculum, assessments, and tools

Imagine Learning	SeeSaw	Google Classroom	Kami
Mystery Science	Quaver Music	TCI Social Studies	Alludo for Students
Screencastify	Formative Assessment	Digital Citizenship	FastForward EL Program
	1,300 Chromebooks distributed	244 iPads distributed	294 Mobile Hotspots distributed



Initiative 1: Digital Curriculum, Tools, Data & Assessment



Successes (cont)

- **Formative and summative assessment support:**



- Remote administration
- *English Language Proficiency Assessment for California (ELPAC)* assessment online this year
- Year 2: Quarterly *FastBridge Universal Screener* for ELA, Math, Social/Emotional
- Working on support for more systematic formative assessment → Progress Monitoring

- **Process for vetting classroom digital tools for student data privacy**





- Student app database: [App Responsibly!](#)



Initiative 1: Digital Curriculum, Tools, Data & Assessment



In Progress

- Continue **supporting existing digital tools** and investigating requests for new ones as needed. 
 - Requirement to create process for evaluating new tech and consistently measure progress is an ongoing process
- **Digital Citizenship:** 
 - Integrate [Common Sense Media Digital Citizenship Curriculum](#)
 - Integrated digital citizenship successful learner behavior in 2020-21 report cards.



Initiative 1: Digital Curriculum, Tools, Data & Assessment



Challenges/Areas for Growth/On Hold

- **Maker Learning**
 - On hold - COVID-related
- **Framework for evaluation of digital tool effectiveness**
still preliminary





Initiative 1: Digital Curriculum, Tools, Data & Assessment



Looking Forward:

Priorities for Recommended Inclusion in 2020-21 CSD LCAP*

- **Evaluating Effectiveness of Digital Tools in the Classroom**
 - Create preliminary framework and process for evaluation of digital tools
- **Year 2: Implementation of [Digital Citizenship Curriculum](#) grades TK-8**
- **Progress Monitoring/Student Data Dashboard**

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



Feedback on Initiative 1

1. Breakout rooms - talk with your group about the Initiative 1 priorities and progress
2. Fill out this [feedback form](#) - tell us where you agree and disagree.
 - a. Everyone fills out their own form
 - b. BUT please fill it out collaboratively. Share your thoughts with each other on the questions.
3. 5 minutes



Initiative 2:

Instructional Practices and Professional Learning



Vision: Teaching with Technology and Learning to Teach with Technology



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



Initiative 2: Instructional Practices and Professional Learning



Successes

- **Digital professional learning platform** to share best practices and personalize “just in time” learning for all staff. 
 - **Year 2: Alludo Professional Learning Platform:** *Cambrian Compass*
 - **Content created for distance learning** including
 - Zoom, Seesaw, Formative Assessment, Screencastify, etc.
- **Professional Development: Teacher choice, teacher-led** 
 - **Summer Distance Learning Study Groups:** Volunteer teacher leaders and learners
 - **Digital Citizenship Curriculum PD:** Common Sense Media Digital Citizenship Curriculum, Fall 2020
 - **Teacher-led, Choice PD Day,** Fall 2020



Initiative 2: Instructional Practices and Professional Learning



In Progress

- Provide mechanism to monitor student device and accounts in in class
 - **Impero EdPro**
 - **Remote filtering/monitoring**
 - Investigate long term plan to support device Take Home Program





Initiative 2: Instructional Practices and Professional Learning



Challenges/Areas for Growth/On Hold

- **Technology and Innovation Fellowship Program**
 - Limited funding and time prevented additional progress





Initiative 2:

Instructional Practices and Professional Learning



Looking Forward: Priorities for Recommended Inclusion in 2020-21 CSD LCAP*

- 1. Professional development focus for teachers**
 - Effective use of technology in the classroom (TK-8)
 - Explicit, consistent teaching of digital citizenship (TK-8)
 - Impero EdPro classroom device management (TK-8)
- 2. Technology and Innovation Fellowship Program**
 - Identify funds and one teacher per site as a TIMS
- 3. Provide Choice in PD**
 - Continue Alludo: Cambrian Compass self-paced professional learning
 - Continue leveraging in-house expertise of our teachers

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



Feedback on Initiative 2

1. Breakout rooms - talk with your group about the Initiative 2 priorities and progress
2. Fill out this [feedback form](#) - tell us where you agree and disagree.
 - a. Everyone fills out their own form
 - b. BUT please fill it out collaboratively. Share your thoughts with each other on the questions.
3. 5 minutes



Initiative 3: Infrastructure, Hardware, and Security



Vision: Enabling Access and Safe, Effective Use of Technology

- [Goal 3.13](#): Technology resources are ubiquitous in classrooms across the district and all students have access to developmentally appropriate devices to support learning.
- [Goal 3.14](#): Define and document an end to end process around requesting, procuring, receiving donations, inventory control and disposal of technology tools and devices
- [Goal 3.15](#): Improve efficiency of remote support processes and mobile device management (MDM) software running updates, securing devices, troubleshooting and enforcing policies.
- [Goal 3.16](#): Classroom standard technology equipment for teaching is met in all classrooms
- [Goal 3.17](#): Ensure students and staff have access to the necessary internet connectivity
- [Goal 3.18](#): Provide the infrastructure and processes necessary to ensure safe and responsible technology use
- [Goal 3.19](#): Continue to support and improve district-wide communication tools and website to meet the needs of our community



Initiative 3: Infrastructure, Hardware, and Security



Successes

- **Student Device Ratios**



- Met Tech Plan [ratio recommendations for 2020-21](#)
- Board resolution passed 5-year plan to fund 1:1 student:device ratio grades 2-8

- **Classroom standard tech procured** for all classrooms.



- Board approved a [technology infrastructure spending plan](#) for 2021-22 on Jan 21, 2021

- **Ensure students and staff have access to the necessary Internet connectivity**






- **WiFi Updates: Wireless access points and cabling replaced** across all sites
- **Grants Received:** 1500 Chromebooks, 204 iPads, 300 Hotspots
- **Devices Loaned Out:** ~1700 Chromebooks, ~250 iPads, ~300 Hotspots



Initiative 3: Infrastructure, Hardware, and Security



In Progress

- ◉ **Review network security infrastructure** based on current threats and best practices. Make recommendations for updates 
- ◉ **Continue to support and improve district-wide communication tools and website** to meet the needs of our community 
- ◉ **Cloud-based filtering and auditing**
 - ◉ Onsite solution in place (Impero EdPro)
 - ◉ Reevaluating need for a solution that works off-premises given approval of Take Home Program. 



Initiative 3: Infrastructure, Hardware, and Security



Challenges/Areas for Growth/On Hold

- **Improve efficiency/consistency of remote support processes and mobile device management (MDM) software** for running updates, securing devices, troubleshooting and enforcing policies.





Initiative 3: Infrastructure, Hardware, and Security



Looking Forward: Priorities for Recommended Inclusion in 2020-21 CSD LCAP*

1. Implement 1:1 Chromebook Grades 2-8 and Grade 6-8 TakeHome program
2. Implement security audit recommendations
3. Complete needs analysis and update for **cloud-based district mobile device management implementation**
 - Includes auditing and filtering of student activities offsite
4. **Device Take Home Program: Middle School:** Gather stakeholder feedback and move forward with implementation based on feedback.
5. Implement recommendations from **network infrastructure security audit**

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

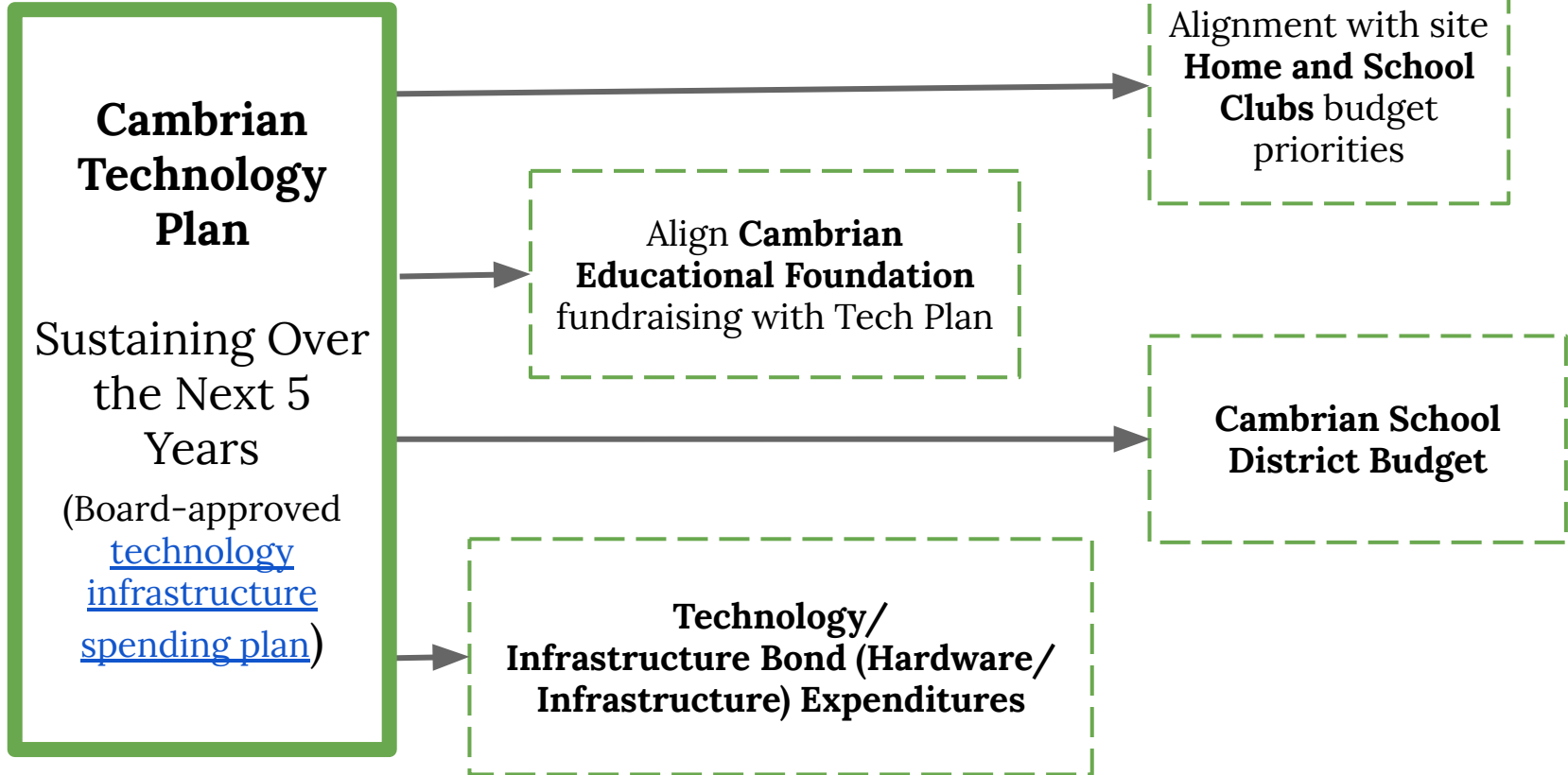


Feedback on Initiative 3

1. Breakout rooms - talk with your group about the Initiative 3 priorities and progress
2. Fill out this [feedback form](#) - tell us where you agree and disagree.
 - a. Everyone fills out their own form
 - b. BUT please fill it out collaboratively. Share your thoughts with each other on the questions.
3. 5 minutes



Funding Technology



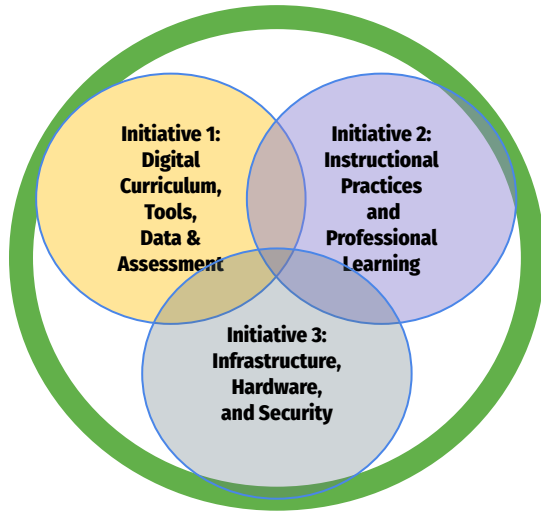


Resources

- ◉ [CSD Technology Plan](#)
- ◉ [Status of CSD Technology Goals 2020-21](#)
- ◉ [CSD Technology Skills Scope and Sequence](#)
- ◉ [Board-approved Technology Infrastructure Spending Plan](#)



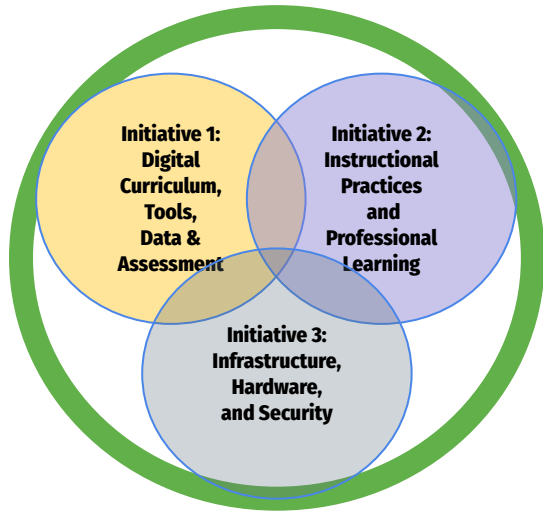
CSD Technology Plan Update



Thank
you!



CSD Technology Plan Update



Appendix

This Appendix provides a detailed status of all initiatives in Technology Plan



Initiative 1: Digital Curriculum, Tools, Data & Assessment



Vision: Empowering Student Learning Through Technology

- ◉ **Goal 1.1:** Access to digital literacy skills per ISTE Standards for Students
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Initiative 1: Digital Curriculum, Tools, Data & Assessment



Successes

- Expanding access to personalize learning tools in Distance Learning (4)
- Support implementation of new digital curriculum, assessments, and tools

Imagine Learning	SeeSaw	Google Classroom	Kami
Mystery Science	Quaver Music	TCI Social Studies	Alludo for Students
Screencastify	Formative Assessment	Digital Citizenship	FastForward EL Program
	1,300 Chromebooks distributed	244 iPads distributed	294 Mobile Hotspots distributed

- Professional development provided on district inservice days and self-paced online through Alludo
- Success criteria goals, aside from usage metrics, still TBD.



Initiative 1: Digital Curriculum, Tools, Data & Assessment



Successes (cont)

- **Formative and summative assessment support: (5)**
 - Remote administration
 - *English Language Proficiency Assessment for California (ELPAC)* assessment online this year
 - Year 2: *FastBridge Universal Screener* for ELA, Math, Social/Emotional
 - Writing Performance-based Assessments
 - Middle School ELA/Math Benchmarks and Performance Tasks
- **Student app database: [App Responsibly!](#) (5)**
 - Process for vetting classroom digital tools for student data privacy
 - Sustaining mode



Initiative 1: Digital Curriculum, Tools, Data & Assessment



In Progress

- Continue **supporting existing digital tools** and investigating requests for new ones as needed. **(4)**
 - Requirement to create process for evaluating new tech and consistently measure progress is an ongoing process
 - Requirement to formalize usage indicators and analyze success/outcomes still TBD
- **Digital Citizenship: (3)**
 - Integrate [Common Sense Media Digital Citizenship Curriculum](#)
 - Spring 2020: Committee of teachers created plan
 - Fall 2020: District-wide PD
 - Integrated digital citizenship successful learner behavior in 2020-21 report cards.



Initiative 1: Digital Curriculum, Tools, Data & Assessment



In Progress (cont)

- **Alignment of site Local Control and Accountability Plans (LCAPs) and Tech Plan (4)**
 - Technology priorities driven primarily through Distance Learning needs this year
- **MTSS district teams data monitoring needs (3)**
 - All sites continue using common format (2nd year) to record student intervention data.
 - Next step:
 - Formalize repository in Illuminate (district student data repository)
 - Create dashboard that makes data easily accessible.
- **Digital Accessibility Strategies Toolkit:** multiple ways for students to demonstrate their learning (3)
 - Informally, distance learning has provided opportunity for growth.
 - Need to formalize though



Initiative 1: Digital Curriculum, Tools, Data & Assessment



Challenges/Areas for Growth/On Hold

- **Maker Learning (2)**
 - On hold - COVID-related
- **Framework for evaluation of digital tool effectiveness** still preliminary (2)
- **Adopt [CSD Technology Skills Scope and Sequence](#) (CSD TSSS) (1)**
 - On hold - competing priorities with other new curriculum/standards
- **Student Passion Projects (1)**
 - On hold - competing priorities with other new curriculum/standards
- **[GenYes Pilot](#): Empower students to support teachers with tech integration (2)**
 - Limited capacity to implement.



Initiative 1: Digital Curriculum, Tools, Data & Assessment



Looking Forward:

Priorities for Recommended Inclusion in 2020-21 CSD LCAP*

- **Evaluating Effectiveness of Digital Tools in the Classroom**
 - Create preliminary framework and process for evaluation of digital tools
- **Year 2: Implementation of [Digital Citizenship Curriculum](#) grades TK-8**
 - Plan the rollout
- **Data Dashboard - Use internal tool (Illuminate)**
 - Continue consolidation of student data to single portal (Illuminate)
 - Improve ease-of-use and access
- **Stakeholder Technology Survey** to establish baseline of tech proficiency to measure impact of 1:1 student:device ratios and Middle School Take Home Program
- **Progress Monitoring Assessment Tools** (FastBridge) – Pilot implementation

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



Initiative 2:

Instructional Practices and Professional Learning



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- [Goal 2.9](#): All school sites adopt [CSD Technology Skills Scope and Sequence](#) (CSD TSSS) to support equitable access to Next-generation learning for all students.
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Initiative 2:

Instructional Practices and Professional Learning



Successes

- ◉ **Digital professional learning platform** and online forum to share best practices and personalize “just in time” learning for all staff. **(5)**
 - **Year 2: Alludo Professional Learning Platform:** *Cambrian Compass*
 - **Content created for distance learning** including
 - Zoom, Seesaw, Formative Assessment, Screencastify, etc.
- ◉ **Professional Development: Teacher choice, teacher-led (4)**
 - **Summer Distance Learning Study Groups:** Volunteer teacher leaders and learners
 - **Digital Citizenship Curriculum PD:** Common Sense Media Digital Citizenship Curriculum, Fall 2020
 - **Teacher-led, Choice PD Day,** Fall 2020
 - Based on teacher survey feedback



Initiative 2: Instructional Practices and Professional Learning



In Progress

- Student device and account monitoring/management (3)
 - **Impero EdPro**
 - Rolled out to early adopters in 2020
 - PD developed
 - General rollout 2020-21 delayed until in-person instruction returns
 - **Remote filtering/monitoring**
 - Investigate long term plan to support device Take Home Program



Initiative 2: Instructional Practices and Professional Learning



Challenges/Areas for Growth/On Hold

- All school sites **adopt** [CSD Technology Skills Scope and Sequence \(CSD TSSS\)](#) to support equitable access to Next-generation learning for all students → Create and deliver training. **(1)**
 - On hold
- **Technology and Innovation Fellowship Program (1)**
 - Limited funding and time prevented additional progress



Initiative 2:

Instructional Practices and Professional Learning



Looking Forward: Priorities for Recommended Inclusion in 2020-21 CSD LCAP*

- 1. Professional development focus for teachers**
 - Effective use of technology in the classroom (TK-8)
 - Explicit, consistent teaching of digital citizenship (TK-8)
 - Impero EdPro classroom device management (TK-8)
- 2. Technology and Innovation Fellowship Program**
 - Identify funds and one teacher per site as a TIMS
 - Support teachers around item #1 above
- 3. Provide Choice in PD**
 - Continue Alludo: Cambrian Compass self-paced professional learning
 - Continue leveraging in-house expertise of our teachers

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Initiative 3: Infrastructure, Hardware, and Security



Vision: Enabling Access and Safe, Effective Use of Technology

- [Goal 3.13](#): Technology resources are ubiquitous in classrooms across the district and all students have access to developmentally appropriate devices to support learning.
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- [Goal 3.15](#): Improve efficiency of remote support processes and mobile device management (MDM) software running updates, securing devices, troubleshooting and enforcing policies.
- [Goal 3.16](#): Classroom standard technology equipment for teaching is met in all classrooms
- [Goal 3.17](#): Ensure students and staff have access to the necessary internet connectivity
- [Goal 3.18](#): Provide the infrastructure and processes necessary to ensure safe and responsible technology use
- [Goal 3.19](#): Continue to support and improve district-wide communication tools and website to meet the needs of our community



Initiative 3: Infrastructure, Hardware, and Security



Successes

- **Student Device Ratios (4)**
 - Met Tech Plan [ratio recommendations for 2020-21](#)
 - Board resolution passed 5-year plan to fund 1:1 student:device ratio grades 2-8 (Tech Plan recommends 1:1 for grades 4-8) w/ possible Take Home Program for Grades 2-8
- **[Classroom standard tech](#) procured for all classrooms. (5)**
 - New doc cameras and Apple TVs purchased for classrooms to replace end-of-life devices
- **Board approved a [technology infrastructure spending plan](#) for 2021-22 on Jan 21, 2021**
- **Inventory system purchased and configured (3)**
 - **Next step:** End to end process around requesting, procuring, receiving donations, inventory control and disposal of technology tools and devices in development.



Initiative 3: Infrastructure, Hardware, and Security



Successes

- **Ensure students and staff have access to the necessary internet connectivity (5)**
 - **WiFi Updates: Wireless access points and cabling replaced** across all sites
 - Distance learning support was a focal area
 - **Grants Received:**
 - 1500 Chromebooks
 - 204 iPads
 - 42 Windows Laptops
 - 300 Hotspots
 - **Devices Loaned Out:**
 - ~1700 Chromebooks
 - ~250 iPads
 - ~300 Hotspots



Initiative 3: Infrastructure, Hardware, and Security



In Progress

- **Review network security infrastructure** based on current threats and best practices. Make recommendations for updates **(3)**
- **Continue to support and improve district-wide communication tools and website** to meet the needs of our community **(5)**
 - Review feedback from CSD Communications and LCAP surveys in Spring 2021
- **Cloud-based filtering and auditing (3)**
 - Onsite solution in place (Impero EdPro)
 - Reevaluating need for a solution that works off-premises given approval of Take Home Program.



Initiative 3: Infrastructure, Hardware, and Security



Challenges/Areas for Growth/On Hold

- **Improve efficiency/consistency of remote support processes and mobile device management (MDM) software** for running updates, securing devices, troubleshooting and enforcing policies. **(3)**



Initiative 3: Infrastructure, Hardware, and Security



Looking Forward: Priorities for Recommended Inclusion in 2020-21 CSD LCAP*

1. Execute Board-approved [technology infrastructure spending plan](#)
2. Complete needs analysis and update for **cloud-based district mobile device management implementation**
 - Includes auditing and filtering of student activities offsite
3. **Device Take Home Program: Middle School:** Gather stakeholder feedback and move forward with implementation based on feedback.
4. Implement recommendations from **network infrastructure security audit**
5. **Evaluate/review current district web and communication tools**

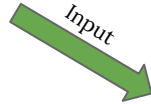
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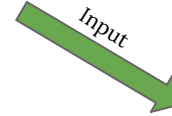
Funding Technology

Yearly Budget Process

**Cambrian Technology
Plan**
Recommendations



**Local Control and
Accountability Plan
(LCAP)**, the district/site
plans for programs and
services

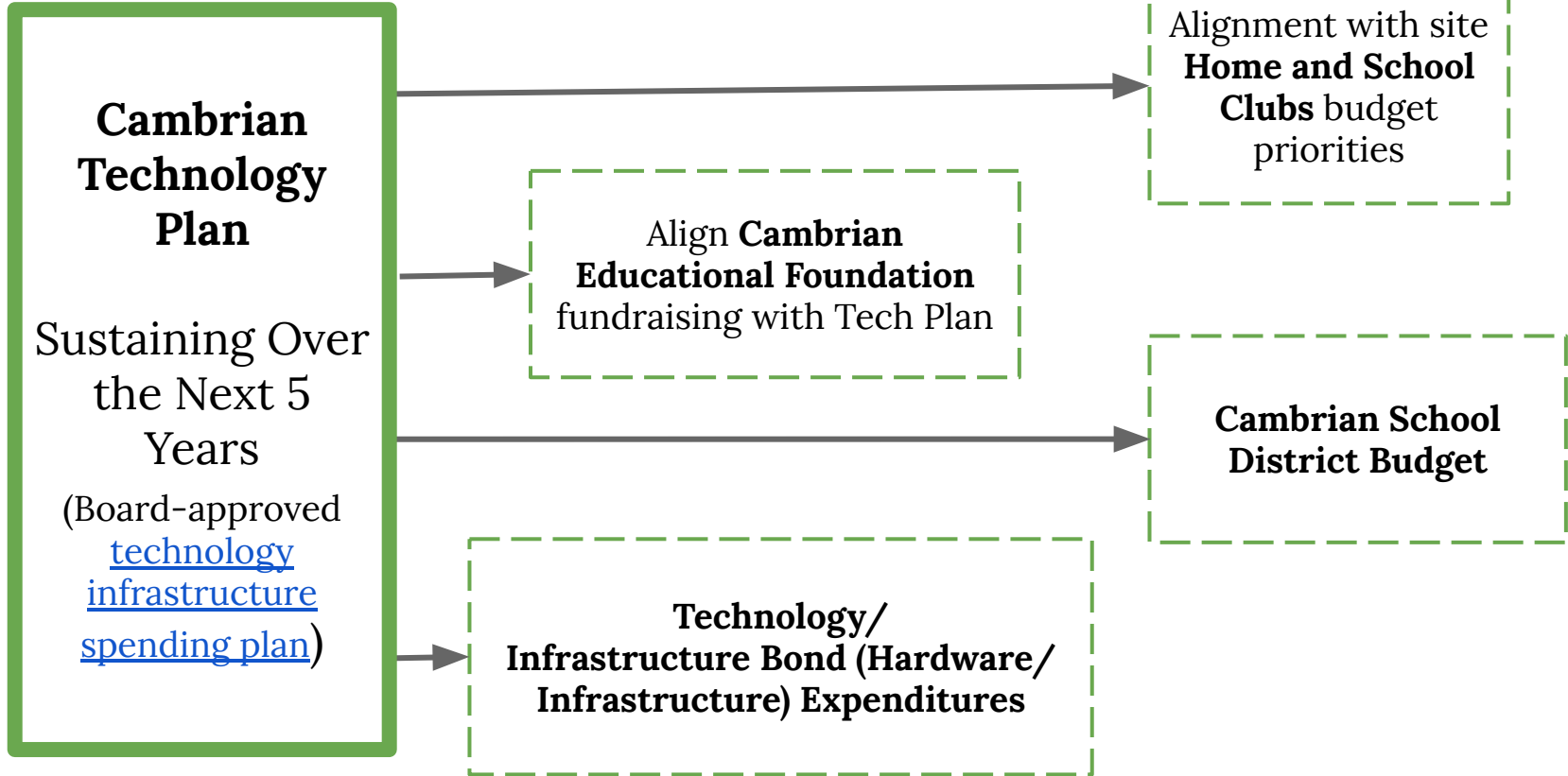


**Cambrian School
District Budget**

(XXX [Budget
At-A-Glance](#))



Funding Technology





Key Messages Moving Forward



- **Initiative 1 Priorities**

- Evaluating Effectiveness of Digital Tools in the Classroom
- Implementation of Year 2 [Digital Citizenship Curriculum](#) grades TK-8
- Data Dashboard
- Stakeholder Technology Survey
- Progress Monitoring Assessment Tools

- **Initiative 2 Priorities**

- Teacher PD: Effective use of technology, digital citizenship, classroom device management
- Technology and Innovation Fellowship Program
- Continue Alludo (self-paced professional learning platform) and leveraging in-house expertise

- **Initiative 3 Priorities**

- Execute Board-approved [technology infrastructure spending plan](#)
- Cloud-based district mobile device management implementation (off premises support)
- Implement 1:1 Chromebook Grades 2-8
- Implement security audit recommendations
- Implement Device Take Home Program Gr 6-8
- Evaluate/review current district web and communication tools

- **COVID 19 will continue to impact timeline and budget**

UPDATED: Technology Plan: Appendix E: Existing Information & Data Systems (Technology Infrastructure)

System	Purpose/Use	Access	Annual Cost*
PowerSchool School Information System (SIS)	Track all student and staff data; Grade PK-8 attendance; Grade 6-8 Gradebook and Grade Reporting	District, Site, management, administrators, teachers & specialists. Parent & Student Portal.	\$32K
PowerSchool Online Enrollment	Enrollment of students online		\$14K
Illuminate	Assessment Data Tracking & reporting; Online assessment administration; K-5 Report Cards	District, Site, management, administrators, teachers & specialists. Student assessment portal.	\$20K
California Longitudinal Pupil Achievement Data System (CALPADS)	Required State student data tracking system	District Access Only: Data Coordinator, IT Director, HR	No annual cost. Access required and provided by state.
CAASPP Systems: Test Operation Management System (TOMS); Test Administration & Reporting and Digital Library	Required State testing system (CAASPP, ELPAC) for formative and summative assessments and English Learner initial and summative assessments	Tech Team, Test Site Coordinators, Principals, Management Team, Teachers	No annual cost. Access required for all state for testing
SIRAS	Special education data for IEPs	Student Services, Special Ed	TBD ???
QSS	Work orders	Required by county	\$58K
*Projected costs based upon Dec 2020 estimated costs.			



UPDATED: Technology Plan: Appendix E: Existing Information & Data Systems (Technology Infrastructure) (cont)

System	Purpose/Use	Access	Annual Cost*
Mobile device management	Meraki, JAMF	IT Director and Help Desk Technicians	\$12K
SWIS	Behavioral data	Student Services, Special Ed Staff, Principals	\$3K
FastBridge Universal Screener and Progress Monitoring	Assessment	District and Site Admin, Teachers, Students	\$22K
Benchmark Advance Digital Component	ELA Instruction PK-5	District and Site Admin, Teachers, Students	
Follet Destiny	Price Middle School	Library inventory and check out system	\$1K
Library World	All 4 elementary Schools and Steindorf K-8 STEAM School	Library inventory and check out system	\$2K
Absence reporting - Frontline	Absence Reporting		\$11K
Raptor Visitor Management System	Online automated system for registering and confirming site visitor identity/school safety	Site offices	\$4K
*Projected costs based upon Dec 2020 estimated costs.			

(Updated from [CSD 2019-24 Technology Plan Appendix E.](#))

**UPDATED: Technology Plan: Appendix F:
Existing Other Centrally Managed Technological Resources (Technology Infrastructure)**



Service	Purpose	Vendor	Annual Cost*
Google for Education (email, G-Suite applications, Chromebook device management)	Productivity, communication, teaching & learning....	Google	No annual cost (currently)
District Website (including Ally accessibility tool), Notifications, and Mobile App	Communication, public interface/access to information, Emergency notifications, community outreach	Blackboard	\$22K
Firewall/Spam & internet Filtering	Block inappropriate and/or harmful content	Palo Alto Network	\$9K
Inventory Tracking and Helpdesk	Asset management and tracking. Helpdesk ticket management.	School Dude	\$6K
Online internal forms/workflow (e.g field trip request...)	Automate approval cycle an data tracking/flow for routine requests	Informed K-12	\$22K
Back up service		Nimble, Veeam	\$8K
Self-Pace Online Professional Development Platform		Alludo	\$5K
Online Student Safety and Network Management		Impero	\$15K
*Projected costs based upon Dec 2020 estimated costs.			

UPDATED: Technology Plan: Appendix F: (cont)

Existing Other Centrally Managed Technological Resources (Technology Infrastructure)

Service	Purpose	Vendor	Annual Cost*
Virus/Malware	Protect district devices and systems from malware, spyware, ransom where	E.g. Sophos	\$8K
Microsoft Suite licensing (Office, Active Directory, Servers...)	Productivity, teaching, device/account management		\$15K
Electronic School Board (ESB) - Intercom Networks	Board meeting software	Interco Networks	\$5K
Phone cellular	Admin cell phone access	T-Mobile	\$5K
Server virtualization - VMware		VMware	\$8K
Internet access		Sunesys Line, SCCOE	\$102K
Phones		Maverick	\$54K
ETriton	Food Service	Harris School Solutions	\$12K

*Projected costs based upon Dec 2020 estimated costs.