

11 APRIL 2022



WELCOME

Russell Deneault Director of Technology Creighton School District Vice President, AASBO





Kelly Krusee Program Manager Office of Digital Teaching & Learning Arizona Department of Education

MEETING OBJECTIVES

-First gathering introductions, review of purpose and goals

-Participants will learn about:

-Office of Digital Teaching & Learning strategy

-Potential programs and services available to LEAs

-Gather feedback, input from participants



TECHNOLOGY TOWNHALL GOALS

Monthly townhalls to learn about technology solutions for Arizona LEAs.

Participants provide input, feedback on potential solutions.

Participant feedback used in development of solutions.



TODAY'S AGENDA

Welcome, Introductions and Overview Office of Digital Teaching & Learning Strategy Cybersecurity Enterprise Computer Hardware Program Device as a Service

Closure and next steps





Strategic Plan



ARIZONA DEPARTMENT OF EDUCATION STRATEGIC PLAN: 2022-2026

Priority #1: Student Equity and Achievement

Priority #2: Educator Recruitment and Retention

Priority #3: Safe and Healthy Schools

Priority #4: Strategic Funding

Priority #5: Strategic Data Use



Office of Digital Teaching & Learning

OFFICE OF DIGITAL TEACHING AND LEARNING STRATEGIC PLAN: 2022-2023





- 1. Build **Community** with Local Education Agencies and solution experts
- 2. Gather **Data** / Measure Progress
- 3. Facilitate Technology Solutions and Resources

Student Equity and Achievement Educator Retention Safe Schools Strategic Funding Strategic Data Use 8

STRATEGY

COMMUNITY

- Engaging Local Education Agencies and solution experts in Communities of Practice
- Facilitating knowledge sharing
- Facilitating training opportunities for Local Education Agencies, families and students
- Economies of Scale



Office of Digital Teaching & Learning

DATA COLLECTION AND ANALYSIS

- Identifying and tracking metrics of success: Key Performance Indicators
- Developing evaluation instruments for Local Education Agencies to use for their internal evaluation practices
- Continuous evaluation of opportunities that drive solutions

SOLUTIONS

- Digital Devices
- Connectivity
- Digital Skills
- Data and Security
- Policies and Procedures
- Classroom Innovation
- Digital Transformation

DIGITAL DEVICES

Data Analysis and Findings:

60%

of respondents lack a refresh plan for instructional devices



is the average of student and teacher devices that are no longer covered under manufacturers' warranty



of respondents lack a refresh plan for student devices

89%

is the average of student devices that are not fully protected from losses or theft

66%

of respondents have a one-to-one program



of respondents use Chromebooks for their student allotted devices

Potential Solutions:

Statewide contract negotiation for devices at lower costs. *Device as a Service*.

Proof of Concept of white glove services, refresh plans, support. *Device as a Service*.

Distribution of Standards for "How to Develop a Device Replace Plan"

Shared support services. Device protection from damages, losses or theft

Student Equity and Achievement Strategic Funding



CONNECTIVITY

Data Analysis and Findings:

Potential Solutions:

23%

of Arizona K12 students lack broadband at home (source: Education Superhighways)



respondents do not currently collect student connectivity data and therefore do not have ways of identifying connectivity needs at home



Some Local Education Agencies (in rural areas) estimate that up to 75% of their students lack connectivity at home

Contract negotiations with vendors / economies of scale

Broadband and Final Mile projects



E-rate Optimization

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Alternative connectivity solutions



Student Equity and Achievement Strategic Funding



DIGITAL SKILLS

Data Analysis and Findings:

Potential Solutions:

- **31%** of all respondents indicated that they had little or no training for instructional staff in digital teaching and learning.
- **74%** of respondents need to improve their level of digital support to students with special needs

30% of respondents have not provided training on digital citizenship to their students

How Curriculum Staff assess their Instructors' knowledge of Technology and Computer Science Standards:

	Comp. Science	Education Tech	
	Standards	Standards	
Very	2 000/	0.040/	
familiar	3.88%	2.91%	
Somewhat	40.700/	E4 270/	
familiar	42.12%	54.37%	
Not at all	F2 40%	42.72%	
familiar	53.40%		

Training Sessions and Webinars in:

- o Digital Citizenship
- o Computer Science Standards
- o Education Tech Standards
- o Others

State Support Resources

Communities of Practice

Knowledge Repository

Student Equity and Achievement Educator Retention



DATA AND SECURITY

Data Analysis and Findings:

Potential Solutions:

28%

of respondents have never risk assessed or were unsure when their last assessment was



of respondents have not conducted a recent professional risk assessment

11% of respondents need help to implement allow lists / deny lists

26%

of respondents lack any measures to reinforce CIPA compliance

31%

of respondents lack Data and Security training for their teachers and staff



of respondents that offer data and security training to their teachers and staff do so at a cost. Some of them find the cost to be too high. Security standards. CIPA compliance



Solutions for security at home



Shared security services (risk assessments, protocols)



Contract negotiations for data privacy and

security solutions. Economies of scale

Safe Schools Strategic Funding

POLICIES & PROCEDURES

Data Analysis and Findings:

Potential Solutions:



of respondents have <u>not</u> fully adopted and implemented board-approved policies for digital learning

20%

of respondents have <u>not</u> started the work on drafting or documented policies for digital learning Build a library of policies, procedures and common practices

Monthly Seminars with pertinent topics, presented by guest expert speakers to discuss relevant subjects

Communities of Practice: focus on the improvement of practice with members who share expertise and passion for a designated topic

> Safe Schools Educator Retention



CLASSROOM INNOVATION

Data Analysis and Findings:

Potential Solutions:

20% respondents do <u>not</u> have digital content available for classroom and home use

17%

respondents lack board approved policies for the selection of digital content

60%

respondents lack a process in place to ensure digital content aligns to state standards

33%

respondents do use Extended Reality in the classroom

State-wide and localized negotiations for the acquisition of digital content and classroom technology at lower cost

Communities of Practice or Knowledge Groups to connect educators to resources and area experts in digital teaching and learning

Monthly Seminars with pertinent topics, presented by guest expert speakers to discuss relevant subjects

Innovation: Virtual Reality / Extended Reality, Learning Management Systems. Learning Object Repository, Shared Content.

> Student Equity and Achievement Strategic Funding Educator Retention



DIGITAL TRANSFORMATION

Data Analysis and Findings:

Potential Solutions:

It would "be beneficial just to know how other districts manage [their devices and digital learning]."

"We are dealing with [challenges in students'] behavior and learning loss. After we get this under control, we will focus more on technology integration."

"Digital learning is a result of COVID and when COVID goes away we will go back to normal."

Communities of Practice

Digital Transformation

- ADE Cloud Innovation Center to engage local education agencies
- Extended Reality
- Enterprise Solutions including Learning Management Systems and Learning Object Repositories
 - Innovation across all workstreams

Transformational practices

Student Equity and Achievement Strategic Funding Educator Retention





Published Strategy:

https://bit.ly/373tdXb







Public Dashboard:

https://bit.ly/3x69SQb







Full Analysis:

https://bit.ly/3IQVBsv







Cybersecurity

Ryan Murray

Deputy Director/Deputy State Chief Information Security Officer, Arizona Department of Homeland Security



Cyber Resources for Local and Tribal Governments

- Anti-Phishing / Security Awareness Training (SAT) •
- Advanced Endpoint Protection (AEP) ۲
- Multi-Factor Authentication (MFA) Web Application Firewall (WAF) 0
- Coming in FY23
 - Asset Management and Remote Patching ۲
 - Security Assessments •
 - K-12 Education!

https://aset.az.gov/programs/cyber-resources-local-and-tribal-governments

MELAND SECUR



Breakout Group Discussion: Cybersecurity

-Is there potential with this program? Are there benefits to LEAs with this program? -What are the pros and cons?

-What does ADE/Az Department of Homeland Security need to know?





Enterprise Computer Hardware Program ECHP

Lindsey Daberko, Project Coordinator, AZ Strategic Enterprise Tech (ASET) Office, ADOA Eric Bell, LAN Supervisor, AZ Strategic Enterprise Tech (ASET) Office, ADOA Erick Tanchez, LAN Supervisor, AZ Strategic Enterprise Tech (ASET) Office, ADOA



Enterprise Computer Hardware Pilot Program

ADOA-ASET

Goals/Objectives



Ability to reduce lead times 🗸



Reduction in time spent on imaging and tagging



Local Inventory Warehousing based on forecasting

Pilot Success

- Reduction of lead time from 3-6 months to approximately 11 days
- On average, ADOA has seen an 18% improvement in cost savings
- Additional cost savings (resource time)

Chromebook Survey

- What are the current needs of the Local Education Agencies?
- Looking to gather specification requirements to drive Notebook cost down
- Current Notebook cost
- Additional servicing needs (i.e. imaging services, asset tagging, white glove service, warranty, etc.)

Questions & Feedback

Device as a Service DaaS

Karina Jones

IT Strategy & Communication Deputy Associate Superintendent Arizona Department of Education



WHAT THE DATA SAYS

- **68** percent of student devices are Chromebooks.
- Over **70** percent of LEAs lack a refresh plan for student devices.
- Over **70** percent of LEAs lack either extended warranties or accidental damage protection, mechanisms that help maintain the operability of student devices.
- Over **30** percent of respondents have not provided any training on digital citizenship or digital literacy to their students.
- LEAs broadly ask for increased capacity in technology support.



DEVICE AS A SERVICE

- Includes:
 - Device
 - Computer Case
 - White Glove Services: asset tagging and preparation
 - 3yr Accidental Damage Protection
 - 3yr On Site Break Fix: technical support
 - Professional Development (training)
 - Device Data Analytics (device usage reports)



DEVICE AS A SERVICE

Delivery	TOTAL
\$ 7.50	\$ 378.04
\$ 7.50	\$ 420.15
\$ 7.50	\$ 561.45
\$ 7.50	\$ 456.80
\$ 7.50	\$ 403.69
\$ 7.50	\$ 448.75
\$ 7.50	\$ 576.31
\$ 7.50	\$ 432.06
\$ 7.50	\$ 588.70
\$ 7.50	\$ 415.70
\$ 7.50	\$ 569.50
\$ 7.50	\$ 492.16
\$ 7.50	\$ 321.25
\$ 7.50	\$ 430.24
\$ 7.50	\$ 522.64
	\$ 7.50 \$ 7.50



BREAKOUT DISCUSSION

• What benefit do you see in the Device as a Service model for your district / school?

• Which services would you include for student devices? Explain your answer.

• What do you think of the pricing sheet here presented?



Closing

Process Check-in

Next meeting time

Thank you!



Thank you!

