



# Technology for the Business Manager

## January 23, 2024

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KEVIN M. HUSTEK, CTO, DIRECTOR OF TECHNOLOGY, WARREN WOODS PUBLIC SCHOOLS

NEIL R. CASSABON, CFO, DEPUTY SUPERINTENDENT, WARREN WOODS PUBLIC SCHOOLS

# Introductions

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Kevin M. Hustek, CTO, Director of Technology, Warren Woods Public Schools

 [@kevinhustek](https://twitter.com/kevinhustek)

Neil R. Cassabon, CFO, Deputy Superintendent, Warren Woods Public Schools

 [@wawncassabon](https://twitter.com/wawncassabon)

# Download Materials

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<https://www.msbo.org/msbo-certification-class-materials/>

# Objectives

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## Technology for the Business Manager

- Technology is everywhere in K12
- Where to start - Tech Assessments/Audits
- Technology purchasing/budgeting
- Leveraging Statewide Activities to Save Money
- Technology planning
- Technology financing
- Contracting/Shared Services
- Policy
- Security/Cyber Security
- Trends



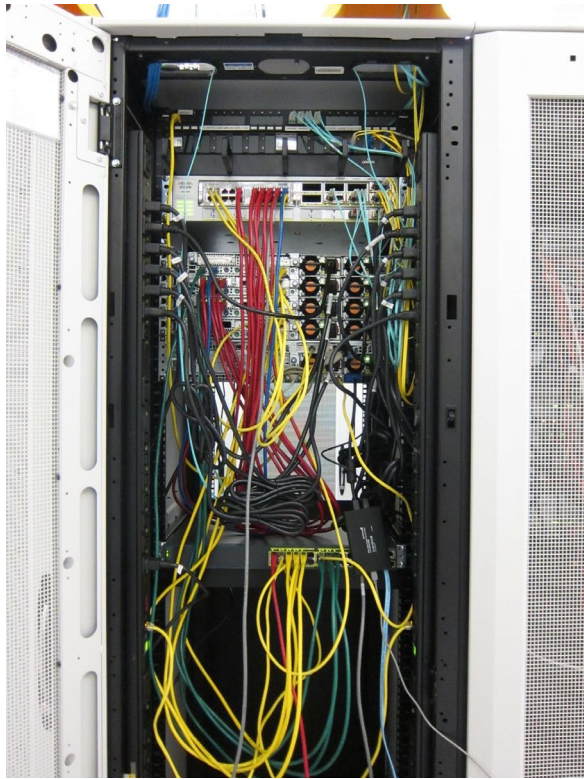


# Why Talk About Tech?

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# Technology is Everywhere in K12

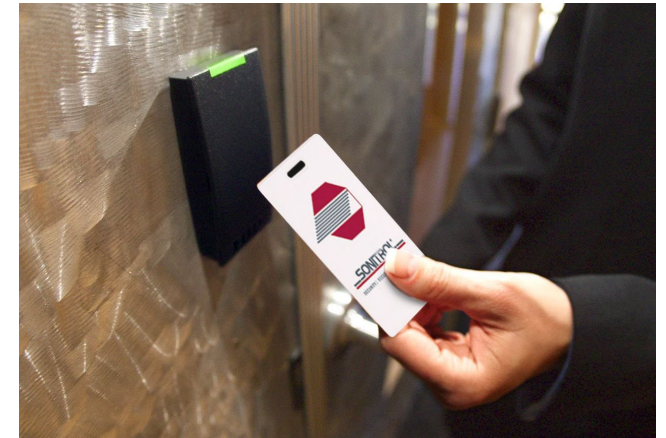


Google  
for Education

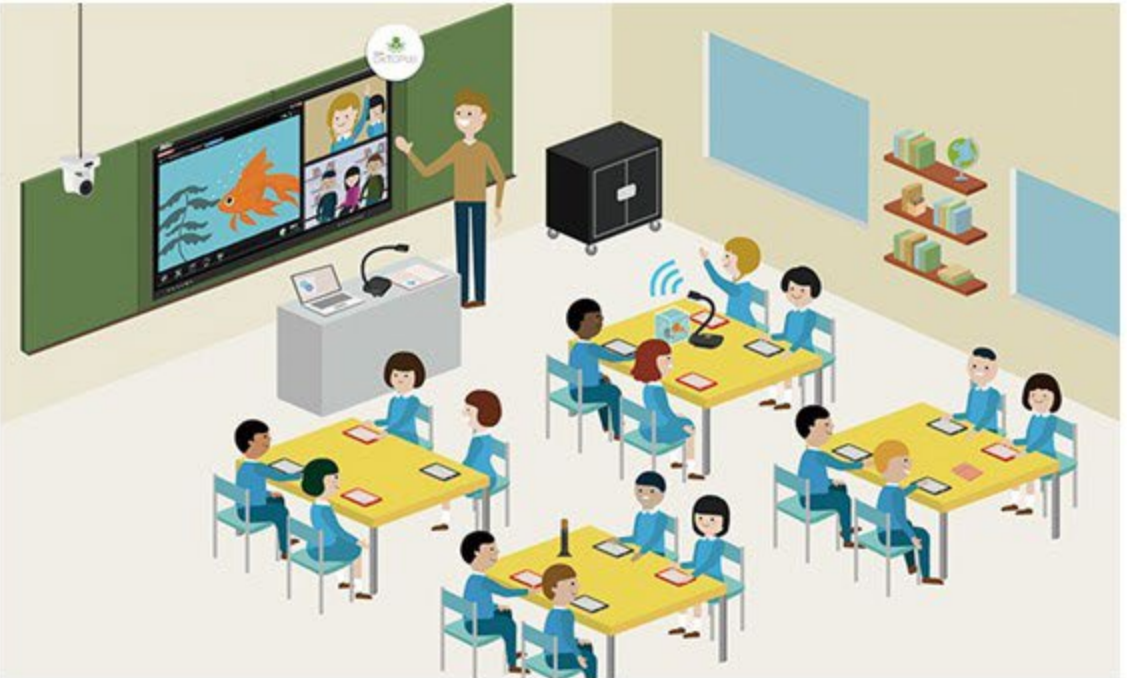


# Technology is Everywhere in K12

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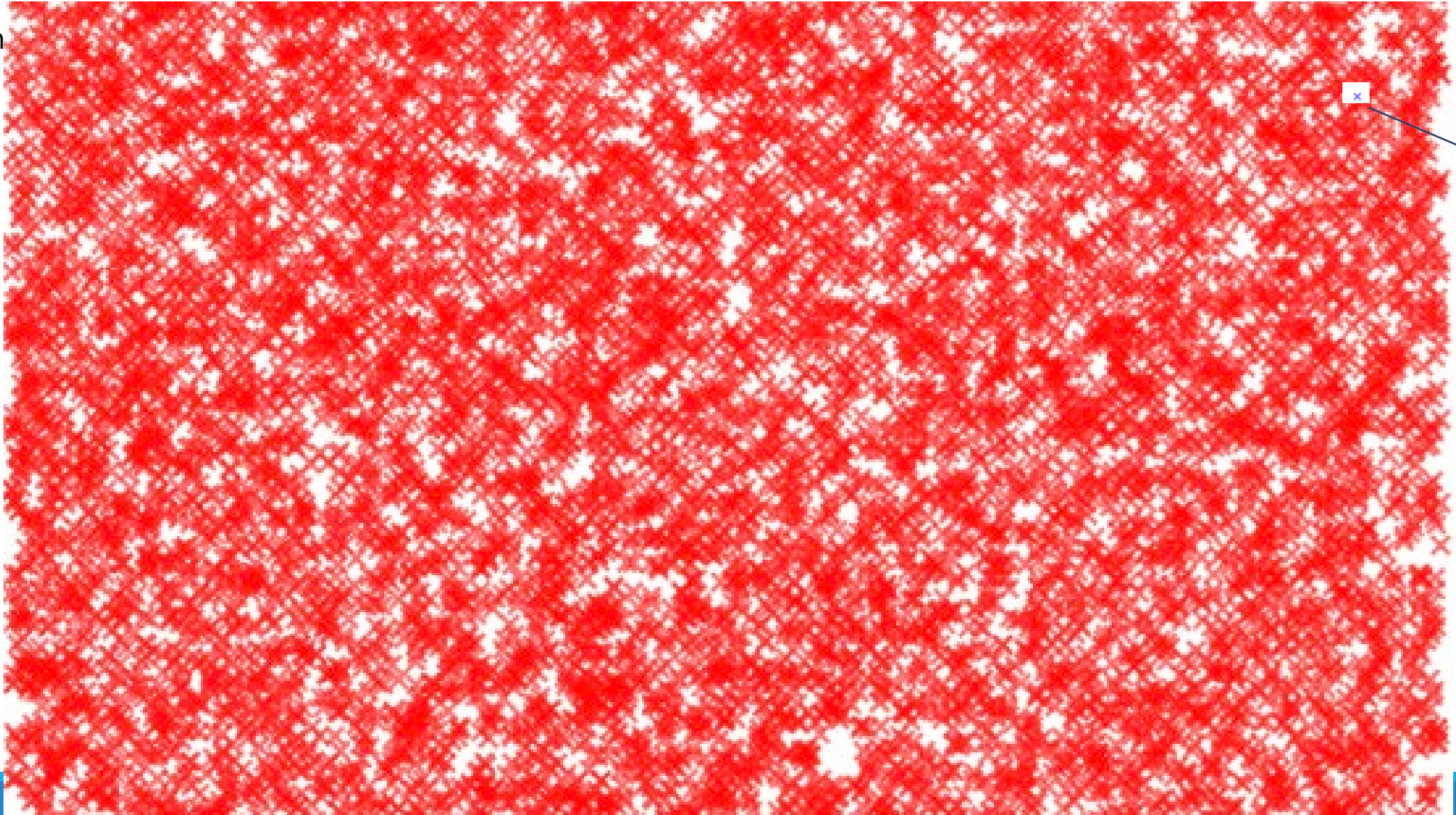




# Global Indicators - Digital Acceleration

2023

14 billion

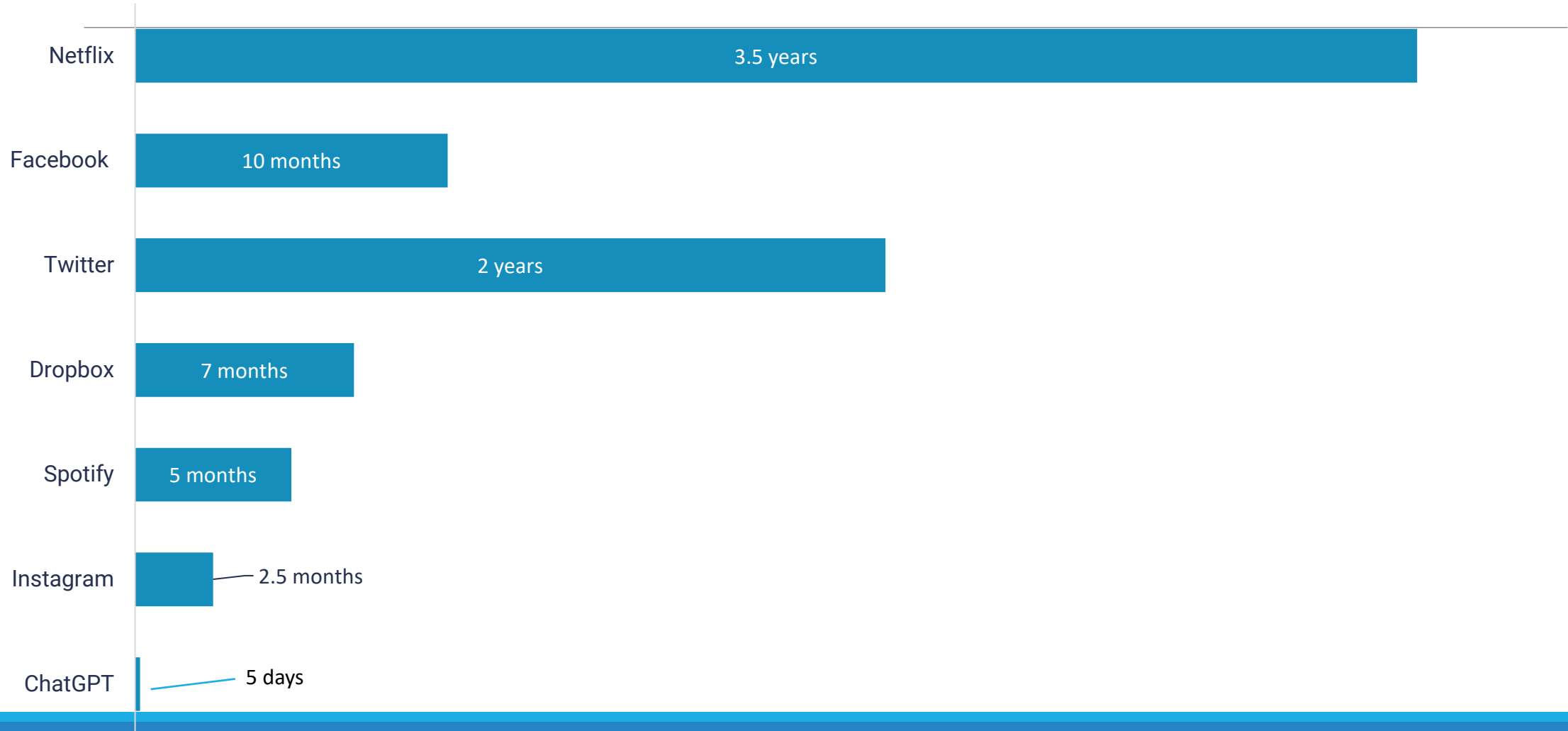


1983

562

# Global Indicators - Digital Acceleration

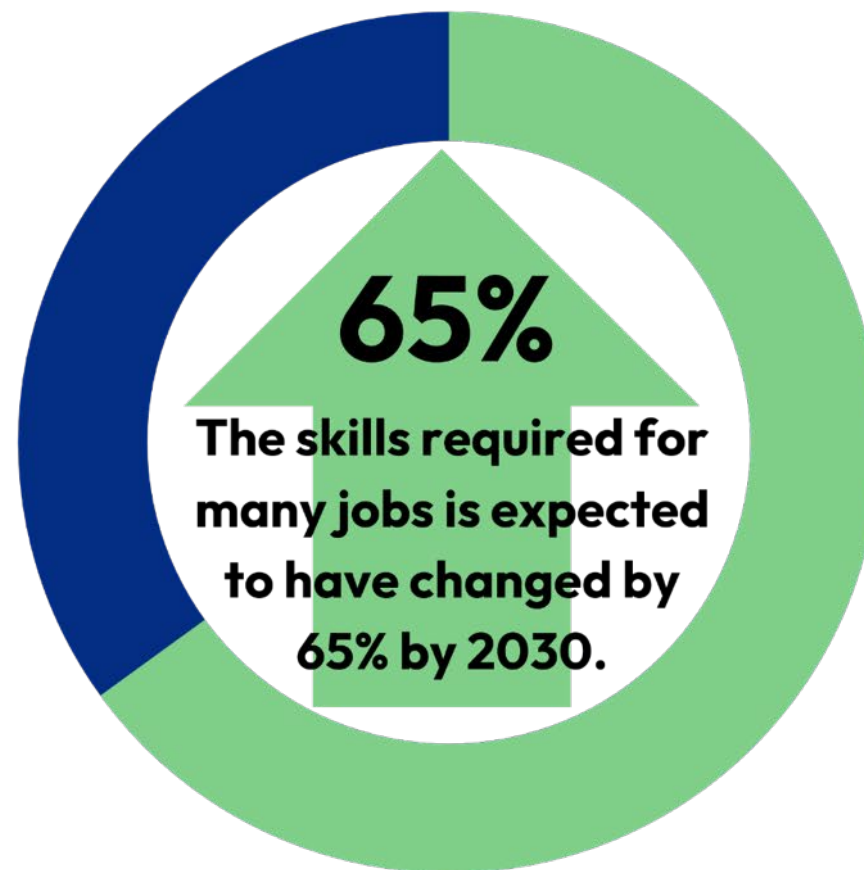
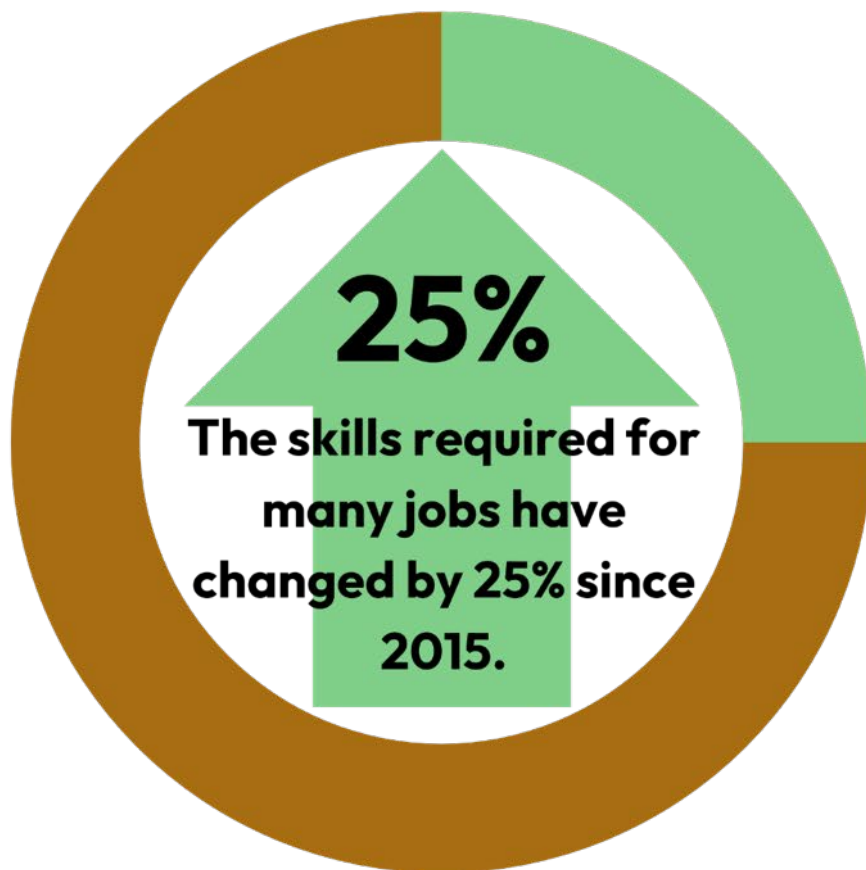
Time to reach one million users from launch







## Global Indicators - Skills Required for Job Success are Changing



# Global Indicators - Skills Required for Job Success are Changing



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Analytical Thinking

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Creative Thinking

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Resilience, flexibility, and agility

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Motivation and self-awareness

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Curiosity and lifelong learning

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Technological literacy

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Dependability and attention to detail

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Empathy and active learning

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Leadership and social influence

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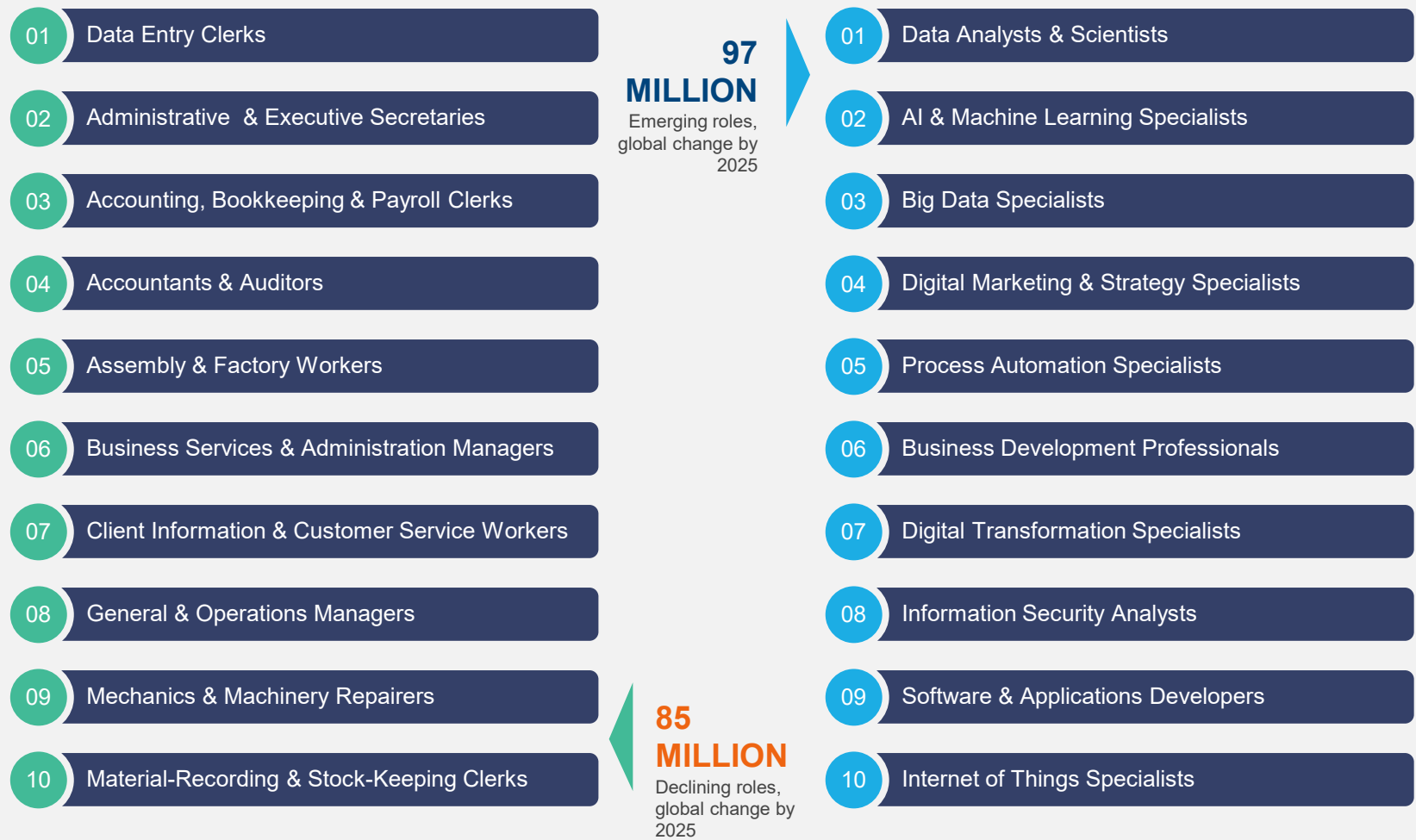
Quality Control

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# Preparing Students for Post-Secondary

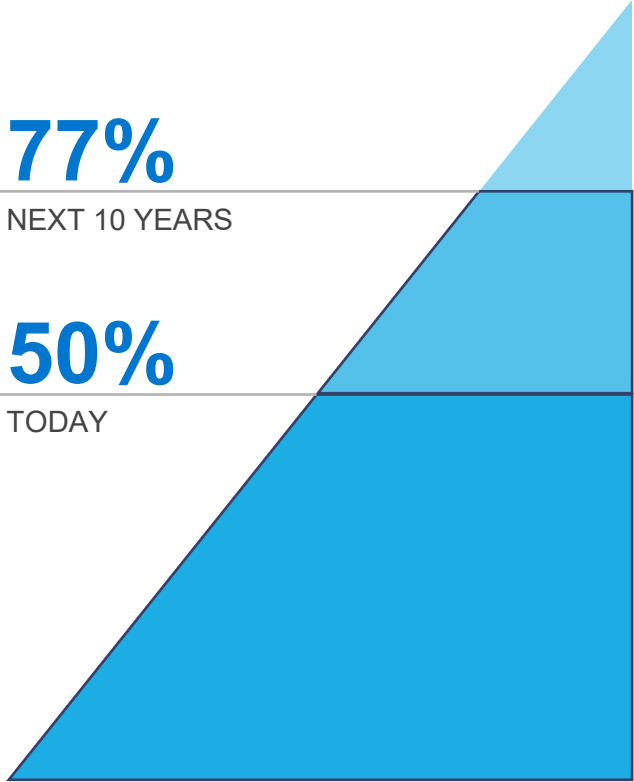
The Job Landscape is also Increasingly Digital

## The Jobs Landscape in 2025



Source: World Economic Forum, 2020

More than **50% of today's jobs** require some degree of technology skills, and experts say that percentage will **increase to 77%** in the next decade.



Source: US Bureau of Labor Statistics

## AI and Machine Learning Jobs are Growing



AI or machine learning jobs  
will grow by 40%.



Over 1 million new jobs are  
expected by 2027.

## Employers are Looking for AI Experience



Globally, English-language job postings mentioning GPT or ChatGPT increased **21x** since November 2022.

# Technology Audits

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- Why do them?

Plante Moran Audit (internal controls)





Warren Woods Public Schools  
Information Technology General Controls and General Ledger Controls  
Self-Assessment Questionnaire  
06/30/2020

Please complete the questionnaire below by indicating which of the listed controls are in place at your organization. **For each control that is in place (as indicated with a check next to "Yes"), please describe the procedures and controls in sufficient detail so that the reviewer has a clear understanding of how the procedures and controls work in your environment.** Please also attach the requested documents that relate to those procedures and controls.

What Could Go Wrong - E-1 Transaction information in the IT system could be inappropriately created, modified or manipulated		
		Supporting Documentation Requests
<b>Logical Access Controls:</b> Controls over granting, changing and removing access to network, core financial applications and related data restrict users to authorize functions and applications and prevent assignment of incompatible duties		
<b>New User Access</b> – Does the organization have procedures and controls in place for granting access to the network and core financial applications? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Describe how IT is notified of new hires by HR or supervisor.	IT receives a work order through the online ticket system School Dude	Provide a <b>completed</b> new user access form or workflow printout from the period under audit  Provide a list of employees and vendors with system access privileges to add, modify or delete General Ledger accounts in the financial reporting system(s)
Describe how HR or supervisor initiates and documents new user name, department, access required (network and applications), hire date, etc.	The Deputy Superintendent receives a copy of the Add/Drop form from HR and creates a work order for IT to process	
Describe how HR or supervisor approves access requested	By attaching the Add/Drop form to a new work order and including a description	
Describe how IT administers access as described in user access forms or workflows and documents the access granted.	One of the fields within the Add/Drop form stipulate the access needed (i.e. Teacher, Office Staff, etc)	
Describe how the documentation for new user access is retained by either the IT or HR department.	Work orders that contain the Add/Drop forms are retained in the School Dude system	
<b>Access Termination</b> – Does the organization have procedures and controls in place to remove access rights for terminated employees? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Describe how is IT notified of terminations by HR or supervisor and how soon after termination IT is notified.	Same process as new user access	Provide a <b>completed</b> user termination form or
Describe how the company documents the terminated user's name and termination date.	In the Add/Drop form which is attached to the work order	

Staff Password Policy

TASKS

SECTIONS

Password Settings

Directly Applies To

Extensions

Password Settings

Name: \* Staff Password Policy

Precedence: \* 1

☒ Enforce minimum password length

Minimum password length (characters): \* 8

☒ Enforce password history

Number of passwords remembered: \* 24

☒ Password must meet complexity requirements

☐ Store password using reversible encryption

☒ Protect from accidental deletion

Description:

Password age options:

☒ Enforce minimum password age

User cannot change the password withi... \* 1

☒ Enforce maximum password age

User must change the password after (... \* 90

☒ Enforce account lockout policy:

Number of failed logon attempts allowed: \* 5

Reset failed logon attempts count after (m... \* 15

Account will be locked out

☒ For a duration of (mins): \* 30

☐ Until an administrator manually unlocks the account

Directly Applies To

Name	Mail
SG All Staff	

Add...  
Remove

More Information

OKCancel



Dashboard

Asset Management

Policy

Backup Policy

Advanced Policy

Replication Policy

Cloud Tier Policy

Administration

Setting

Proxy Management

System

Monitor

Activity

Event

Domain

▼ /

> clients

> wwidpavcenter.w

> wwwcenter.wvps

Policy

Include Sub-domain ☐

+ ADD

EDIT

DELETE

RUN

REFRESH

MORE ACTIONS

	Name	Domain	Type	Enabled	Members
<input type="radio"/>	Default Virtual Machine Group	/wwwcenter.wvps.k12.mi.us	REGULAR	false	48
<input checked="" type="radio"/>	WW_8pm_Policy	/wwwcenter.wvps.k12.mi.us	REGULAR	true	Dynamic

Policy details

### Dataset

FQDN /Image\_Dataset

Plugins Linux VMware Image  
Windows VMware Image

### Schedule

FQDN /8pm-12hours

Recurrence type Daily

Next run time 2021-06-28 20:00:00 GMT-4

### Retention

FQDN /30d-8w-6m

Keep dailies for 30 DAYS

Keep weeklies for 8 WEEKS

Keep monthlies for 6 MONTHS

Keep yearlies for 1 YEARS

### Cloud DR

DR enabled false

1 - 2 of 2 Policies

SOPHOS

CENTRAL

Admin

Overview

Dashboard

Alerts

Threat Analysis Center

Logs & Reports

People

Devices

Global Settings

Protect Devices

MY PRODUCTS

Endpoint Protection

Server Protection

Firewall Management

Cloud Optix

MORE PRODUCTS

Free Trials

Computers

View and manage your computers

Computers

Servers

Unmanaged devices

Manage Endpoint Software

Delete

Export to CSV

All Computers

Show all computers

All Products

Search

	Name	IP	OS	Protection	Last user	Last active	Group
<input type="checkbox"/>	mslab202_s34	10.39.20.217	Windows 10 Education	Intercept X Advanced	kheacock9866	Jun 28, 2021 8:36 AM	Student Computers
<input type="checkbox"/>	WWPS_16467	10.22.50.125	Windows 10 Education	Intercept X Advanced	jray	Jun 28, 2021 8:36 AM	
<input type="checkbox"/>	jferlito_it	192.168.0.5	Windows 10 Education	Intercept X Advanced	jferlito	Jun 28, 2021 8:35 AM	
<input type="checkbox"/>	mslab304_s13	10.39.20.195	Windows 10 Education	Intercept X Advanced	estarr8866	Jun 28, 2021 8:35 AM	Student Computers
<input type="checkbox"/>	mslab202_s16	10.39.20.170	Windows 10 Education	Intercept X Advanced	lhammond9020	Jun 28, 2021 8:34 AM	Student Computers
<input type="checkbox"/>	mslab304_s05	10.39.21.5	Windows 10 Education	Intercept X Advanced	awyrembelski9136	Jun 28, 2021 8:34 AM	Student Computers
<input type="checkbox"/>	mslab304_s32	10.39.21.8	Windows 10 Education	Intercept X Advanced	aboyd2485	Jun 28, 2021 8:34 AM	Student Computers
<input type="checkbox"/>	mslab304_s36	10.39.20.27	Windows 10 Education	Intercept X Advanced	nalznbori8704	Jun 28, 2021 8:34 AM	Student Computers
<input type="checkbox"/>	MAINT_DIRECT_DT	10.91.10.4	Windows 10 Education	Intercept X Advanced	mdishman	Jun 28, 2021 8:33 AM	
<input type="checkbox"/>	mslab202_s02	10.39.20.201	Windows 10 Education	Intercept X Advanced	agladden6327	Jun 28, 2021 8:33 AM	Student Computers
<input type="checkbox"/>	mslab202_s07	10.39.20.93	Windows 10 Education	Intercept X Advanced	lmitchell4528	Jun 28, 2021 8:33 AM	Student Computers
<input type="checkbox"/>	mslab304_s30	10.39.21.10	Windows 10 Education	Intercept X Advanced	Jsavi9742	Jun 28, 2021 8:33 AM	Student Computers
<input type="checkbox"/>	1TECHSUPPORT_DT	10.22.20.12	Windows 10 Education	Intercept X Advanced	jray-da	Jun 28, 2021 8:32 AM	
<input type="checkbox"/>	BRILIB_S02	10.36.20.83	Windows 10 Education	Intercept X Advanced	brstudent	Jun 28, 2021 8:32 AM	Student Computers
<input type="checkbox"/>	BRISBEAR_S06	10.36.20.51	Windows 10 Education	Intercept X Advanced	nkherkher	Jun 28, 2021 8:32 AM	Student Computers
<input type="checkbox"/>	mslab304_s04	10.39.20.185	Windows 10 Education	Intercept X Advanced	ischram4552	Jun 28, 2021 8:32 AM	Student Computers

1 - 250 of 2,148 computers / 0 selected

<<

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1

2

3

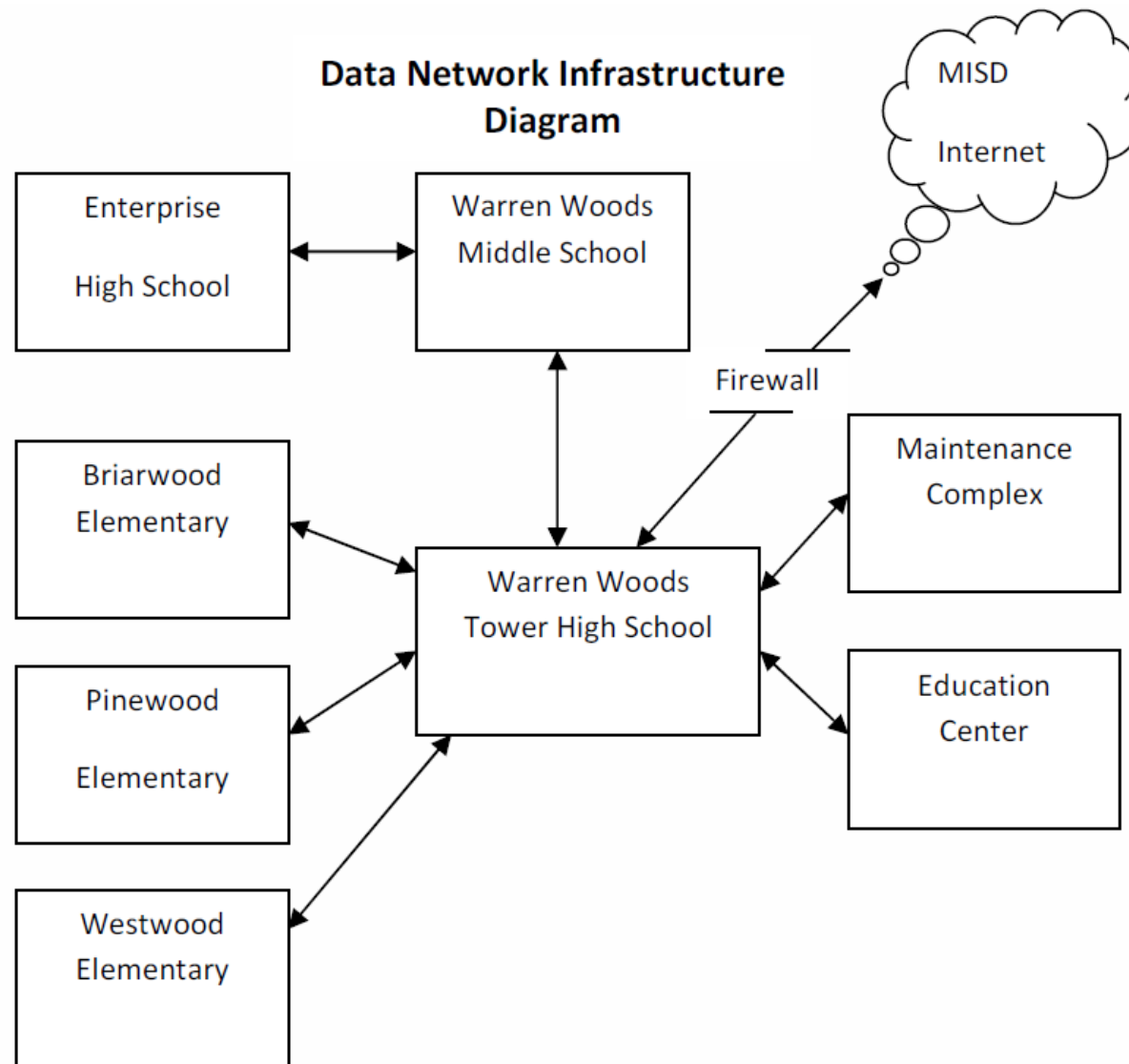
4

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Last updated: Jun 28, 2021, 8:40 AM



# Technology Planning

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New – Tech Planning is now Integrated with the School/District Improvement Plan (SIP/DIP)

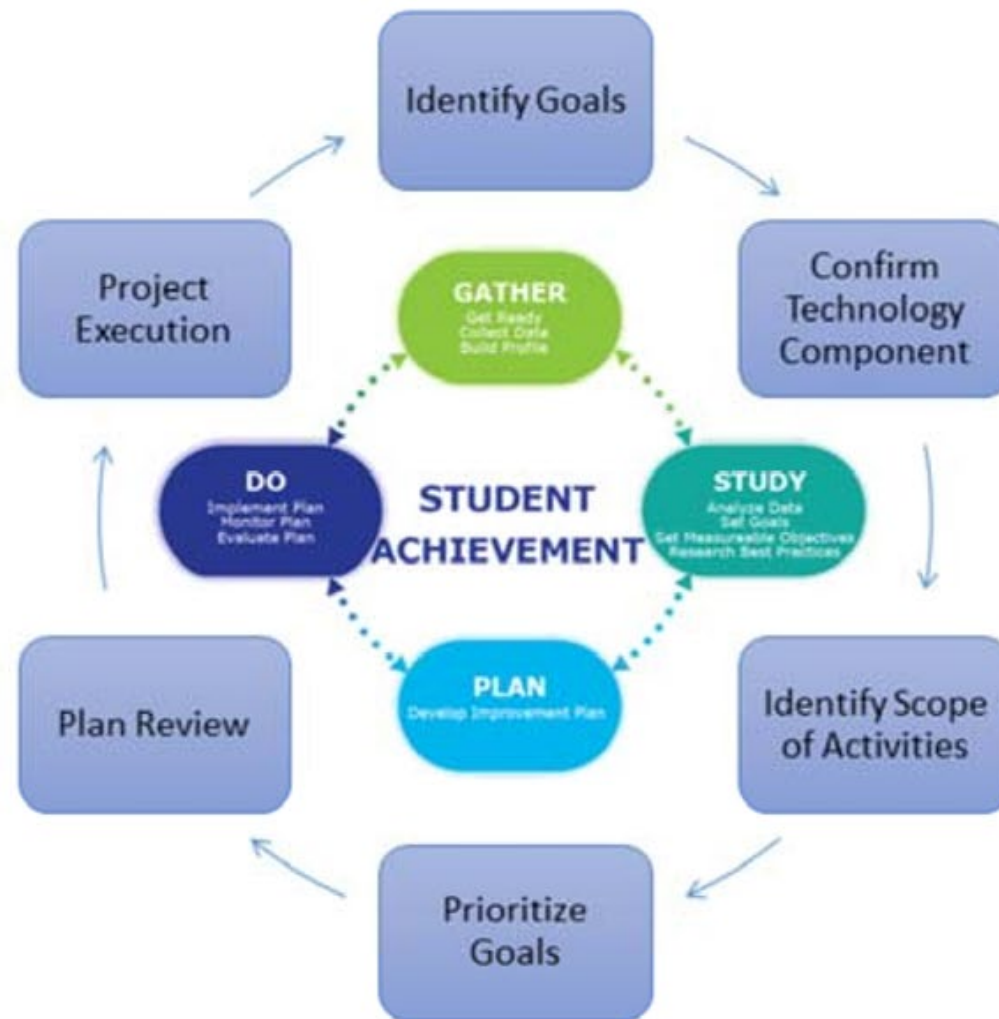
Technology Director/Coordinator should join SIP/DIP team

Must tag technology related items in SIP/DIP

MICIP - [MDE - Michigan Integrated Continuous Improvement Process \(MICIP\)](#)



New Model



How?



# Our Technology Planning Process

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Weekly touch point between Curriculum and Technology

Quarterly meeting with Instructional Technology Team

**Short and long term planning process with Business Manager (Superintendent)**

**Goal Setting**

## 2020-2021 State of the Technology Department

### **Managed Devices (total increase of 1232 devices since FY1920):**

833 Laptops (Increase of 100 CTE Laptops-5 carts, Increase of 18-new science cart)  
1045 COVID-19 Student Laptops (234 Lenovo, 811 HP)  
1200 Desktops  
227 iOS Devices-iPad, iPod Touch, Apple TV (increase of 20 iPads)  
63 Bluetooth Wireless Headsets (Apple AirPods and Blue Parrot)  
200 Projectors  
123 Interactive Boards/Projectors  
125 Document Cameras (increase of 1)  
304 Wireless Access Points  
455 Surveillance Cameras (increase of 3)  
59 Network Printers-excludes copiers  
65 FrontRow Audio Enhancement Systems

### **Potential additional device purchases:**

Additional WWT Science Laptop Cart (18)  
WWT will need a Read 180 laptop cart and possible cart(s) at WWMS depending on desire to switch to Read 180 and number of classes. Would need Device CALs.

### **Budget Detail:**

21/22 SchoolDude Helpdesk (\$3,305) and Insight Renewal (\$6,915) prepay (\$10,216 total)  
21/22 One Year of SMART Learning Suite (WWT/HS/EC Only) qty-40 @ \$31.49 each (\$1,259.60)  
21/22 Sophos (three year @ \$9,902.00/yr or two year @ \$11,275.00/yr)  
21/22 Renewal of Microsoft EES using new required licensing model \$23,989.50  
21/22 Renewal of Lightspeed filter subscription qty-1400 @ co-term rate (\$9,500.00)  
21/22 Renew Adobe Creative Cloud (convert to user) \$2,380.00 (CTE funded)  
21/22 GoDaddy SSL Certificate \$500 (Hybrid Exchange 21/22, Firewall 22/23)  
21/22 KnowBe4 Year 2 \$7,800  
21/22 Palo Alto \$32,646.00 (for three years, prepay year 2&3)  
21/22 Migrate Surpass to Cloud (Current 5 @ \$530 each to 5 @ \$900 each - \$1,850 increase overall)  
21/22 Cyber Assessment Program for 12-months (\$14,000)



# Goal Setting

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## ADMINISTRATIVE GOAL SETTING

**Administrator and evaluator will jointly develop at least two (2) goals related to their job duties for self-improvement. Upon approval of goals the administrator will develop strategies and time-lines to successfully accomplish these goals and submit copy to evaluator.**

Administrator: **Kevin Hustek**

Evaluator(s): Neil Cassabon

- 1.
- 2.

## ADMINISTRATIVE GOAL SETTING

### Kevin Hustek Goal #1

**Administrator and evaluator will jointly develop at least two (2) goals related to their job duties for self-improvement. Upon approval of goals the administrator will develop strategies and time-lines to successfully accomplish these goals and submit copy to evaluator.**

**Goal:**

**Relevance:**

**Steps/Strategies:**

**Time Frame for each Step:**

**Documentation for each Step:**



# Goal Example

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Show example of Director of Technology Goals

Show example of Technology Technician Goals

# Technology Purchasing

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Technology Planning

Total Cost of Ownership

Technology Budgeting

# Total Cost of Ownership

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Consider what tech needs to be in place to simply check email on a computer



# Budget Planning with your Tech Director



Initial cost of hardware



Staff to support



Professional Services/Consultant



Maintenance contracts



Training



Sustainability plan – short/long term costs

# Year 1 Cost – 1 Grade Level Example

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**200 Students**

iPad \$599

Case \$30

MDM \$14

Apps/Books \$20

Ed Tech - 2 days per week \$28,000

# \$160,600



# Year 1 Cost – 1 Grade Level Example

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**200 Students**

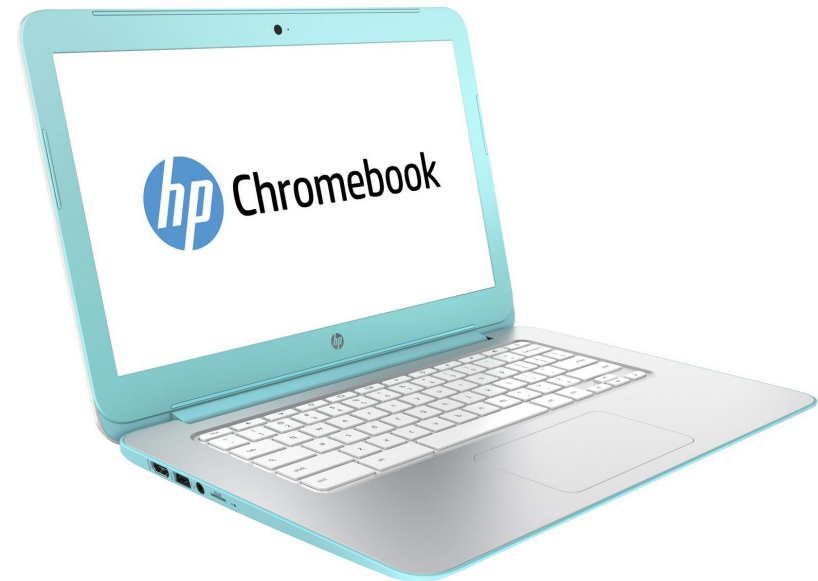
Chromebook \$260

Case \$30

Apps/Books \$20

Ed Tech - 2 days per week \$28,000

# \$90,000





# TCO/Sustainability Concerns

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Additional technology support staffing

Additional instructional tech staffing

Applications

Additional wireless

Additional insurance

Additional bandwidth costs

# Budgeting – Factors Increasing Costs

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## Increasing use/dependence on technology

- Business Office (paperless, workflows)
- Classroom (1:1, AV, Online Assessments)
- SAS – Subscription Model for Software
- 0% Technology staff unemployment rate
- Cyber Security Costs (SIEM Solutions, AV, UTP Firewalls, Encrypted eMail)

## Need for better connectivity

- WAN
- Internet Bandwidth
- Wireless Density





# Budgeting - Low Risk Cost Reduction

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- Leveraging the cloud
- BYOD
- Standardization (Hardware, software, etc.)
- Moving to SIP trunks for VOIP (phones)
- Quality used network equipment
- E-rate
- Local/Regional Collaborations: Shared services
- Statewide Collaborations SPOT, REMC Bid, Open eBooks, EduPaths, SEN (470), MiSuite
- Automation – User accounts, imaging, MiDataHub integrations



# Budgeting - High Risk Cost Reduction

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Non-renewal of maintenance contracts

Reduce staffing levels

Off brand network hardware/software

No Business Continuity Plan (Disaster Recovery)



# Statewide Activities Can Save \$\$\$

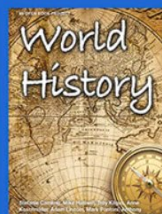
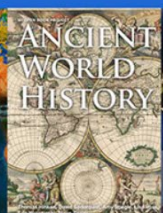
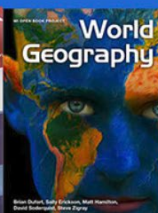
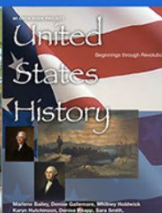
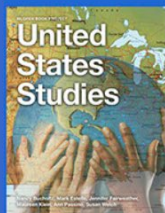
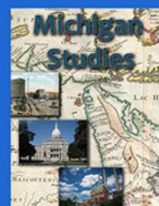




## MICHIGAN OPEN BOOK PROJECT

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Grab your 2018-19 Editions Now!



# MICHIGAN OPEN BOOK PROJECT







**\$30  
MILLION**

**Direct Savings to Schools**

**140,000  
Devices Purchased**

***This year alone!***

**REMC Association**



# MICHIGAN DataHub

*What can it do for your  
district?*

Integrate data systems – SIS, Food Services, Emergency Notification, etc.

Improving access to educational data/dashboards – MiLearn, MiRead, EWS

Free to Michigan LEA's and PSA's!!!

[Home \(midatahub.org\)](http://midatahub.org)

## MiDataHub Participation



June 5, 2023

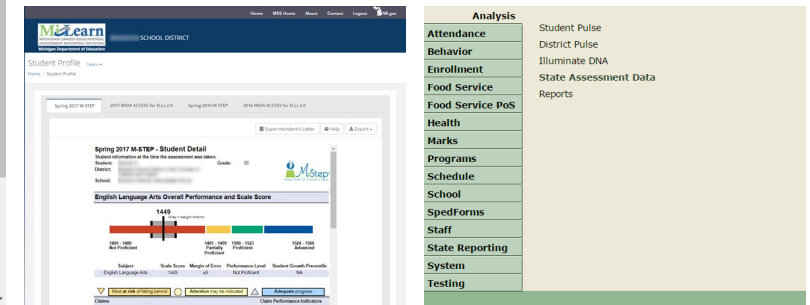
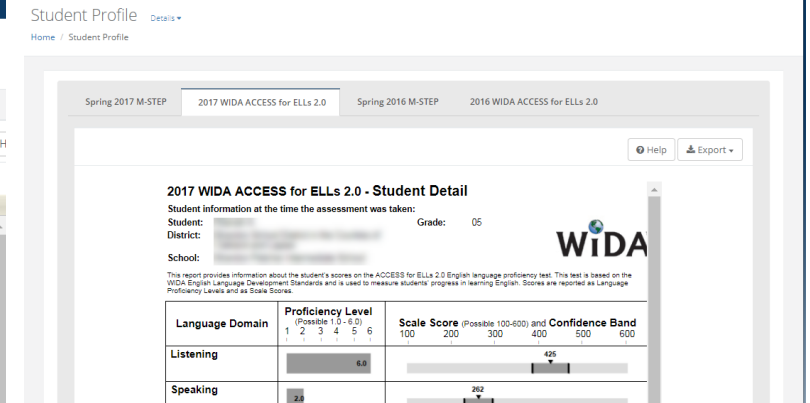
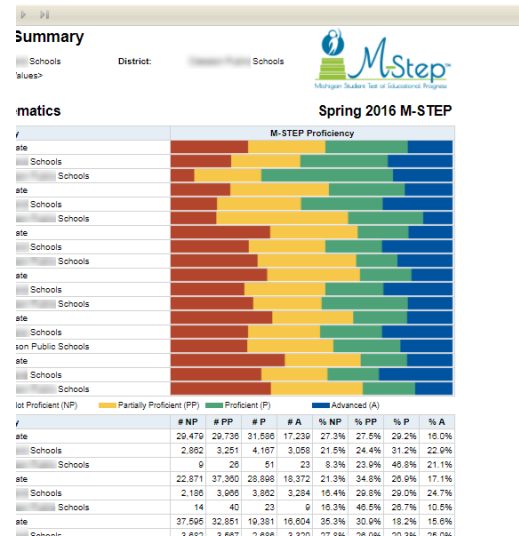
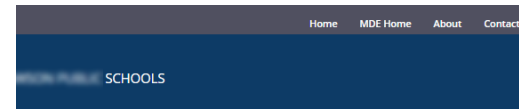
	Live	In-Process	Total
ISD/LEAs	571	19	590
PSAs	283	8	291
Total Districts	854	27	881
Total District %	96%	3%	99%
Headcount	1,537,754	n/a	n/a
ISD/LEA FTE	1,256,313	75,384	1,331,697
PSA FTE	148,181	1,866	150,047
Total FTE	1,404,494	77,250	1,481,744
Total FTE %	92%	5%	97%

[ISD and District Status Update](#)



# MiLearn

Direct access to state assessment results online for students, parents, and educators



# DataHub Dashboards and Early Warning Signs

Leveraging National work on EWS

Included as official process for State of Michigan Early Warning and Intervention Monitoring System (EWIMS)

Integrated into Michigan's Safe and Healthy Schools and MTSS initiatives

Michigan Manual on Early Warning Intervention and Monitoring System Implementation Guide (right)

<http://mi.gov/mde-ewims>

## Early Warning Intervention and Monitoring System Implementation Guide

For use with the Michigan Data Hubs Early Warning System Tool

by Susan Bowles Theriault, Mindee O'Cummings, Jessica Heppen, Laura Yerhot, and Jenny Scala  
Adapted for Michigan by Bersheril Bailey, Don Dailey, Mara Schanfield, and Tara Zuber

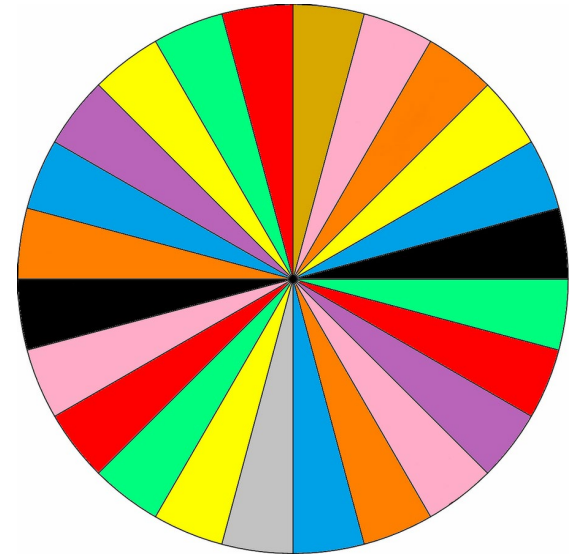


# BREAK

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When we return,  
we'll spin the  
wheel for a gift  
card prize!



# Setting Priorities

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Cabling/Fiber

Switching

Firewall

Content Filter

Wireless

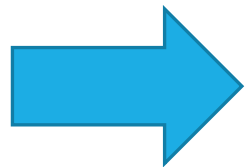


# TECHNOLOGY BUDGETING – Long Term Planning

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## Replacement Cycles

- Fiber 30 to 60 years
- Network Cabling 15 to 20 years
- Switches 8-10 years
- Wireless 8-10 years
- Servers/SAN/Content Filters 5-10 years
- Desktops 5 years
- Laptops 5 years
- Smart phones 2 years





# Cloud Based Infrastructure - IaaS

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Capital Expenditures v. Operational Expenditures

Why Go IaaS?

- Costs are lower (if you purchase reserve instances)
- More reliable – 99.999% uptime
- Better backup and disaster recovery (DR)
- Less need for staff with server hardware skills





# How to Fund Tech?

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Bond Funds

**Sinking Funds**

**Installment Purchase Agreements**

Operational Funds



# Sinking Funds

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- New legislation passed November 2016 to allow sinking funds to purchase/upgrade technology
- Not retroactive for existing sinking funds
- Only for new sinking funds passed March 2017 or later
  - Voter approved



# Installment Purchase Agreements

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- Work with your attorney
- Solicit bids from banks
- Favorable loan terms



# Be Careful – Lease Purchase Agreements

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- Not a true lease – district takes possession of equipment
- Usually contains many unfavorable, and sometimes illegal, provisions
- Does require proper board authorization for tax-exempt financing
- Installment purchase agreement recommended



# Bids

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## REMC SAVE

- What is a SPOT bid

## MiDeal



# Outsourcing/Shared Services

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- In-House vs. Collaboration
- Collaborations in Michigan
- Benefits and Challenges
  - Shared resources
  - Enterprise Model
  - Hybrid model challenges
  - Expertise availability

## Contracts/IGA's

What to look for in a Shared Service Agreement (SLA)



## **CONFIDENTIALITY AND NON-DISCLOSURE AGREEMENT**

This Confidentiality and Non-Disclosure Agreement (the “Agreement”) is entered into by and between **WARREN WOODS PUBLIC SCHOOLS**, a Michigan General Powers School District, whose address is 12900 Frazho, Warren, MI 48089 (the “District”) and [REDACTED], a [REDACTED] whose address is [REDACTED] (“Vendor”) and confirms the terms under which the District has disclosed or may hereafter disclose to the Vendor certain Confidential Information in conjunction with services provided by Vendor to School District.

For valid consideration, the receipt and adequacy of which are hereby acknowledged:

1. Vendor acknowledges that in the performance of its services for the District, it may gain knowledge of Confidential Information and/or may have access to Confidential Information. Vendor acknowledges that the maintenance and disclosure of this Confidential Information is governed by various state and federal laws, rules and regulations and agrees that it shall each keep all Confidential Information in confidence and will not, without the District’s prior written consent, divulge, disclose, communicate, copy or make accessible any Confidential Information to any person or entity. Each

# Technology Policy – AUP's

Acceptable Use Policy - NEOLA

Staff and students must sign an AUP

**Acceptable Use Policy**

1. Monitor the use of 
2.  SAFE and secure
3. Follow 
4. Take care of 
5. We will share info. 

## Acceptable Use Agreement for Computers and Other Technology

Computers and other technology are to be used in a responsible, efficient, ethical, and legal manner. Technology includes, but is not limited to, computers, disk drives, printers, scanners, networks, software, video and audio recorders, cameras, photocopiers, telephones, and other related electronic resources. Networks include, but are not limited to, all voice and data systems. Users include anyone who is accessing or using district technology.

District technology can be used to access the Internet, a global information and communication network that provides significant educational opportunities to our students. The Board has adopted policies for Student Network and Internet Acceptable Use and Safety, and Staff Network and Internet Acceptable Use and Safety.

By signing this form, I agree to the following terms for use of district technology, including the Internet:

1. I understand that the use of district technology is a privilege and not a right. My use of technology may be monitored by district staff, and is not to be considered confidential or private. Warren Woods reserves the right to access, review, or delete any information on the district network.
2. My use of district technology is for educational purposes only, as determined by the district's mission statement and curriculum.
3. I will not use the school district network for commercial use, for inappropriate or illegal purposes of any kind, nor for activities that could be dangerous to myself or to others. Warren Woods will not be held responsible if I participate in such activities.
4. I will not use the school district network to send or receive threatening, obscene, or harassing materials. Warren Woods will not be held responsible if I participate in such activities.
5. I will not interfere with, disrupt, or cause damage to district technology equipment, networks, and services.
6. I will respect copyright laws and fair use practices.
7. I will not use multi-user talk sites (chat rooms), games, or blogs, except those designated as permissible.
8. I am responsible for any misuse that results from sharing my password. Therefore, I will not share my password.
9. I will accept the responsibility of any student Internet access from my classroom/office.

I understand that if I do not follow the above guidelines, I may face disciplinary action, loss of technology privileges and network access, and/or legal action. Penalties will be determined by the School District.

Please read carefully and then **PRINT** your name on the line below:

I, \_\_\_\_\_, have read the guidelines stated above and agree to follow them.  
(Please Print)

Please sign and date below:

STAFF SIGNATURE \_\_\_\_\_ Date: \_\_\_\_\_  
(Please Sign) (Please date)

# Tech Policy - CIPA

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## Child Internet Protection Act (CIPA)

- Must block or **filter Internet** access to pictures that are: (a) obscene; (b) child pornography; or (c) harmful to minors (for computers that are accessed by minors). Before adopting this Internet safety policy, schools and libraries must provide reasonable notice and hold at least one public hearing or meeting to address the proposal.
- Internet safety policies must include **monitoring** the online activities of minors.
- As required by the Protecting Children in the 21st Century Act, they **must provide for educating minors** about appropriate online behavior, including interacting with other individuals on social networking websites and in chat rooms, and cyberbullying awareness and response.



# Tech Policy – Records Retention

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## Michigan Record Retention Policies

- [http://www.michigan.gov/documents/hal\\_mhc\\_rms\\_local\\_gs2\\_171482\\_7.pdf](http://www.michigan.gov/documents/hal_mhc_rms_local_gs2_171482_7.pdf)

You are responsible for employee training





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PERM = Permanent                      ACT = Active                      EXP = Expiration  
 SUP = Superseded                      EVT = Event                      CR = Creation Date                      FY = Fiscal Year  
 School districts need to identify the “office of record,” duplicates are “nonrecords” that do not need to be retained.

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Page 9

**General Retention Schedule #2**  
**Michigan Public Schools**

Item	Series Title and Description	Total Retention
Number		
	<p>may include the Invitation to Bid, the bid documents that are submitted, the reviewer documentation, etc. <b>ACT = until a bid is awarded.</b></p>	
304	<p><u>Contracts (supersedes item #D9)</u></p> <p>These contracts may cover a variety of services including construction, custodial work, copiers, facility rental, Internet providers, maintenance, wiring, telephone services, employment, land, etc. These files may</p>	EXP+6



# Tech Policy on eMail Archiving

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1 year most common (longer creates risks)

Consider liability

Legal holds



# FOIA – Freedom of Information Act

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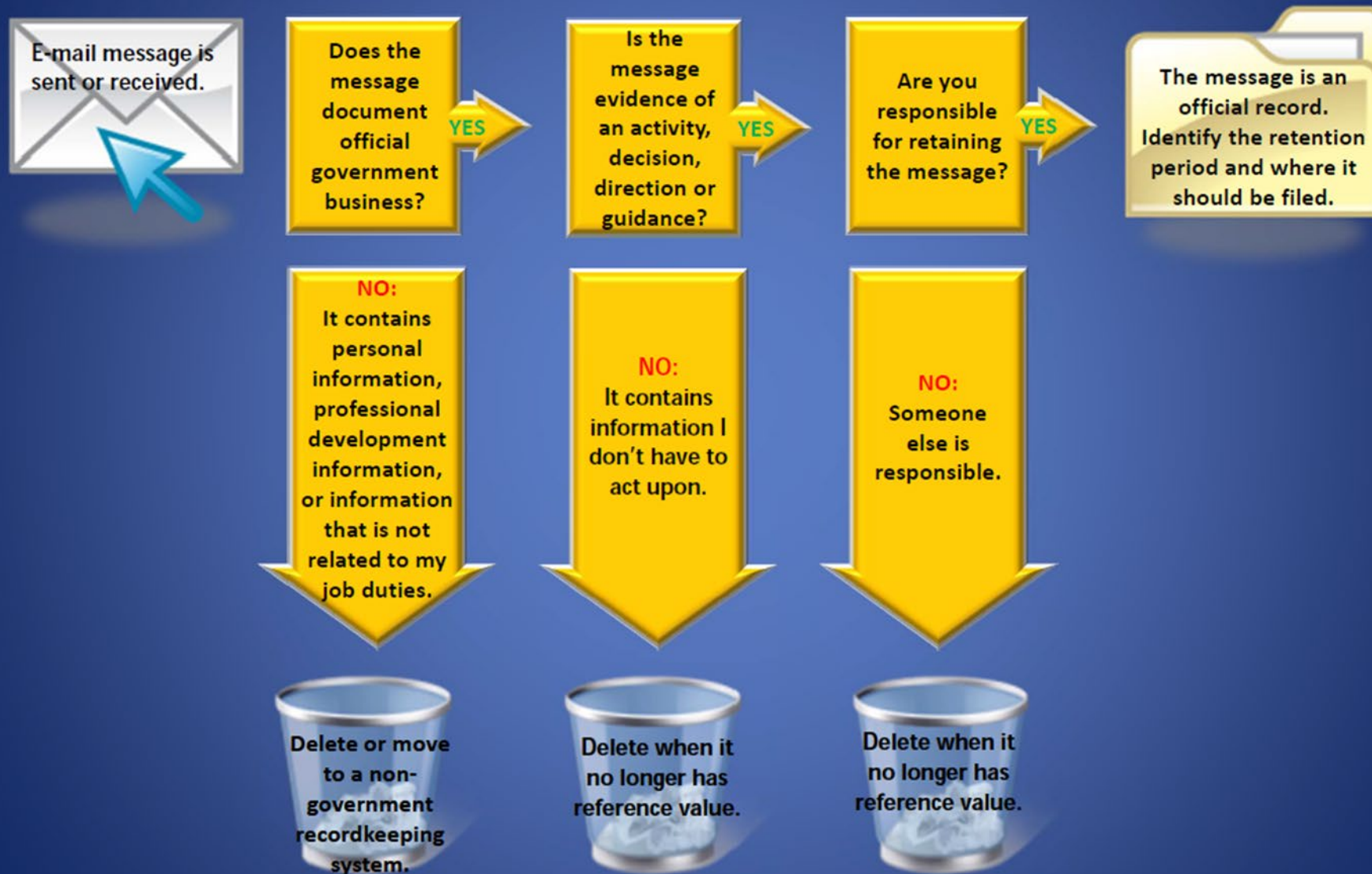
What is FOIA?

Email Retention - [Decision Tree](#)

[http://www.michigan.gov/documents/hal\\_mhc\\_rms\\_email\\_faq\\_161101\\_7.pdf](http://www.michigan.gov/documents/hal_mhc_rms_email_faq_161101_7.pdf)



# Do I need to retain this e-mail message?



# Tech Policy - Disposal

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## Technology Disposal

1. Sell to staff and community
2. Sell to other schools
4. Send out to Recycler's



# Business Continuity Planning

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## Backup

- Offsite
- Disk based
- Cloud based cold storage

## Replication

## Disaster Recovery (DR)

## Hot Site



# Security

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HIPPA – FERPA - Family Educational Rights and Privacy Act

Cloud (Office 365 and Google)

Firewall log

Password rules – i.e. 8+ char passwords

Multifactor Authentication (MFA or 2FA)

Plante Moran Audit (internal controls)





# Email Security

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# Cyber Awareness – KnowBe4

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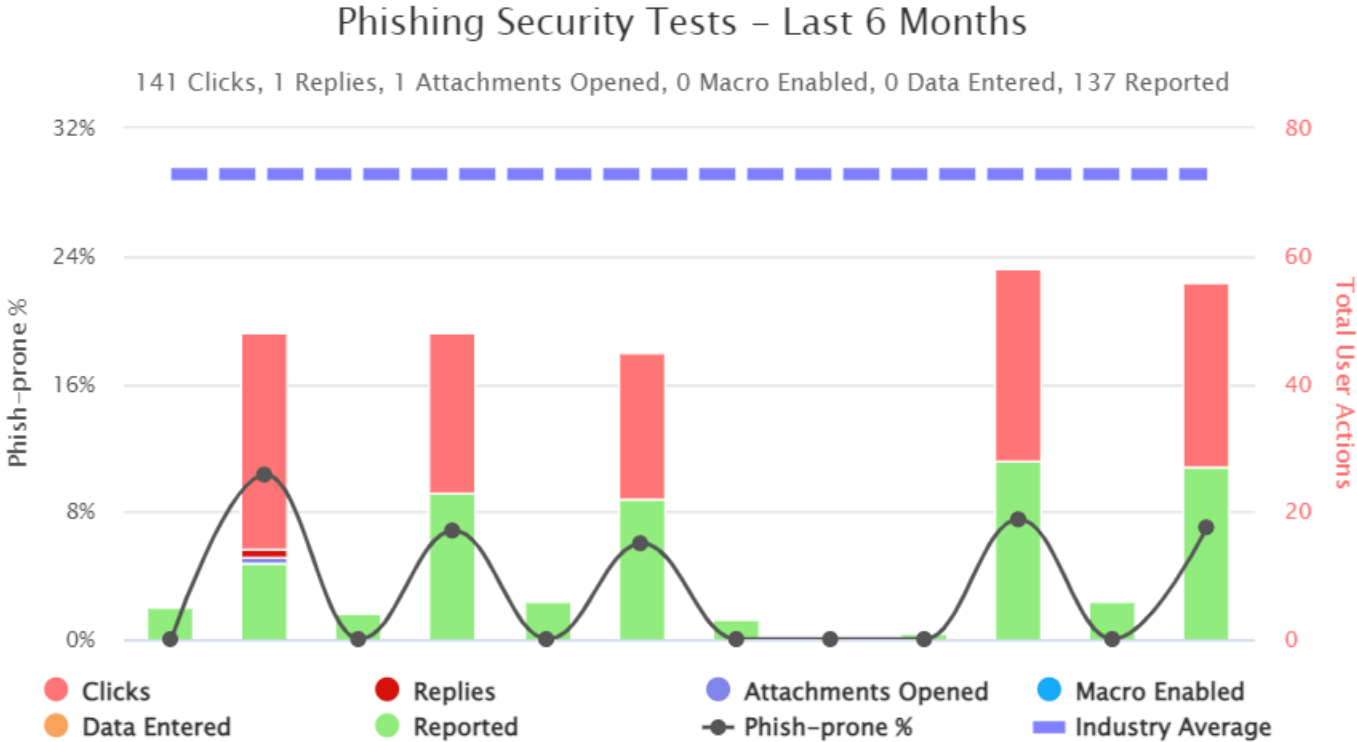
Training

Phish Simulation

Phish Reporting

Follow up training for “clickers”

# Phishing



Industry Benchmark Data ?

Most Recent Phish-prone %

9.2%

Your Last Phish-prone %

7%

Industry Phish-prone %

29.1%

Industry

Education

Organization Size

Medium (250-1000)

Program Maturity

Baseline

☒ Industry Benchmark Chart Data

Jump into the tool to show some of the metrics and data available

# Trends

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What have you seen change in last 3-5 years?

- One-to-one
- Alexa/Google Assistant
- Mobility/Wearable Tech

What will the next 3-5 years look like?

- Artificial Intelligence (ChatGPT)



# What Has Changed Since COVID-19?

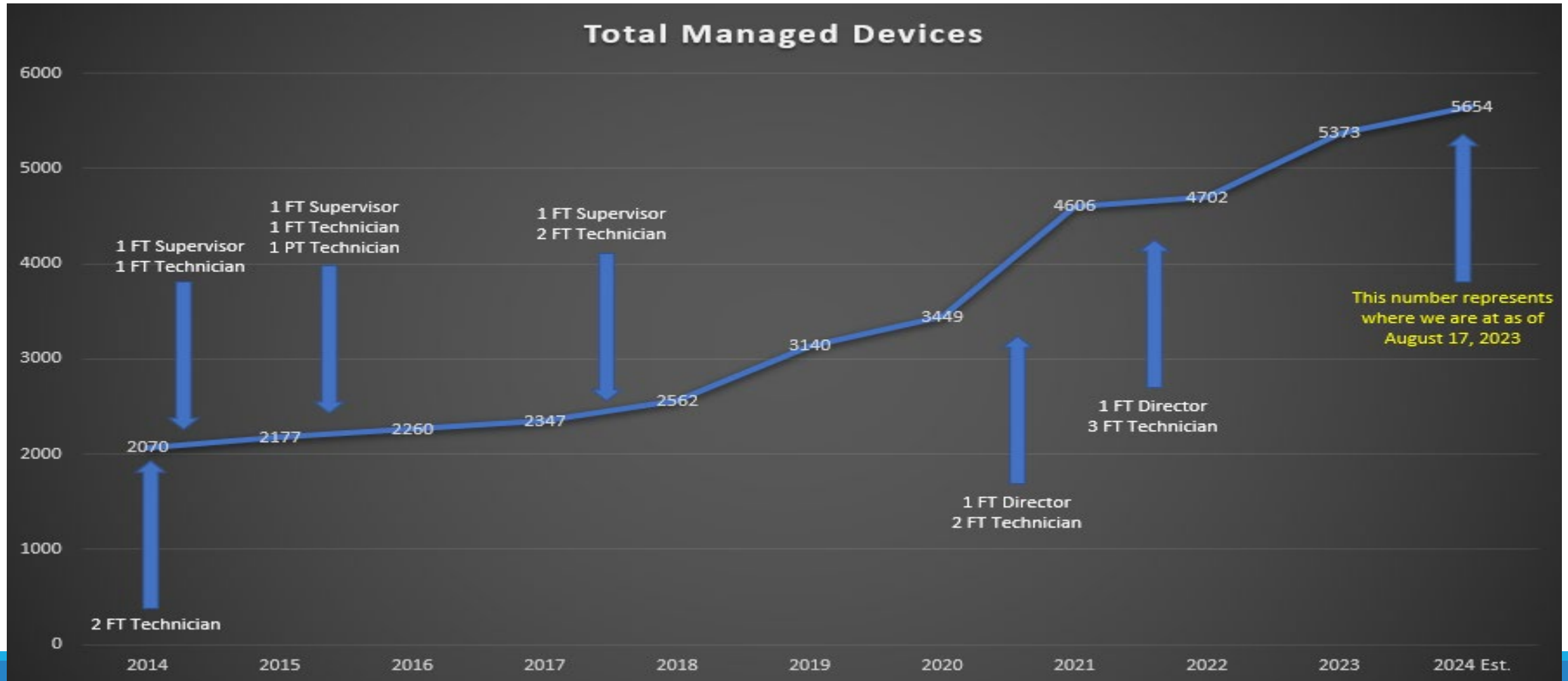
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Number of devices

Cyber Security Threats

Heavy reliance on technology (more than ever before)

# Our Device Trends





# SETSEG Cyber Risk Assessment

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Purpose

Cyber Security Claims

Increase in deductible for cyber claims from 10K to 250K

# SETSEG CRA Continued

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Show example of our SETSEG CRA

Discuss what we've been doing

# Artificial Intelligence

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ChatGPT

Microsoft Copilot

Google Bard

Pew Research Center surveyed more than **1,400 U.S. teenagers, aged 13 to 17**, about their knowledge, use and views of ChatGPT

About **72 percent of white teens** said they had heard about the chatbot compared with about **56 percent of Black teens**, Pew said

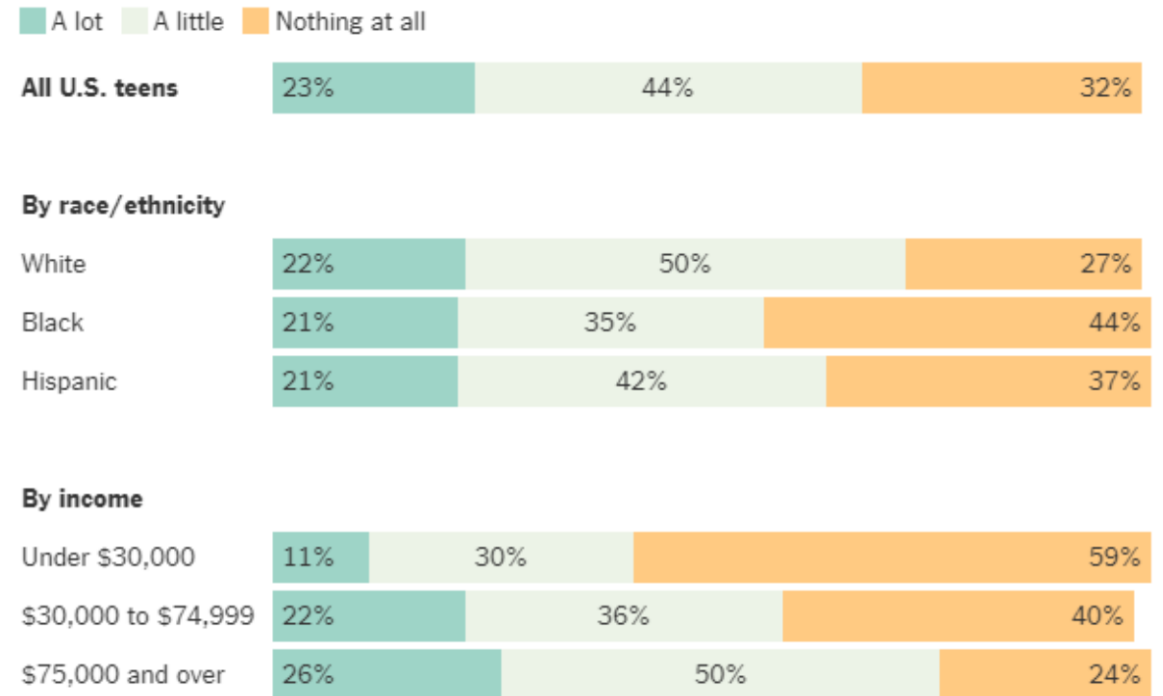
About **75 percent of teens in households with annual incomes of \$75,000 or more** said they had heard about ChatGPT, Pew found, compared to just **41 percent of teens in households with annual incomes of less than \$30,000**

Source:

<https://www.nytimes.com/2023/12/13/technology/chatbot-cheating-schools-students.htm>

## Many Teens Have Never Heard of ChatGPT

How much, if anything, have you heard about ChatGPT, an artificial intelligence (A.I.) program used to create text?



Notes: Chart does not include respondents who did not respond. Respondents of other races are omitted because of low sample sizes. • Source: Pew Research Center survey of U.S. teens conducted Sept. 26 to Oct. 23, 2023 • By The New York Times



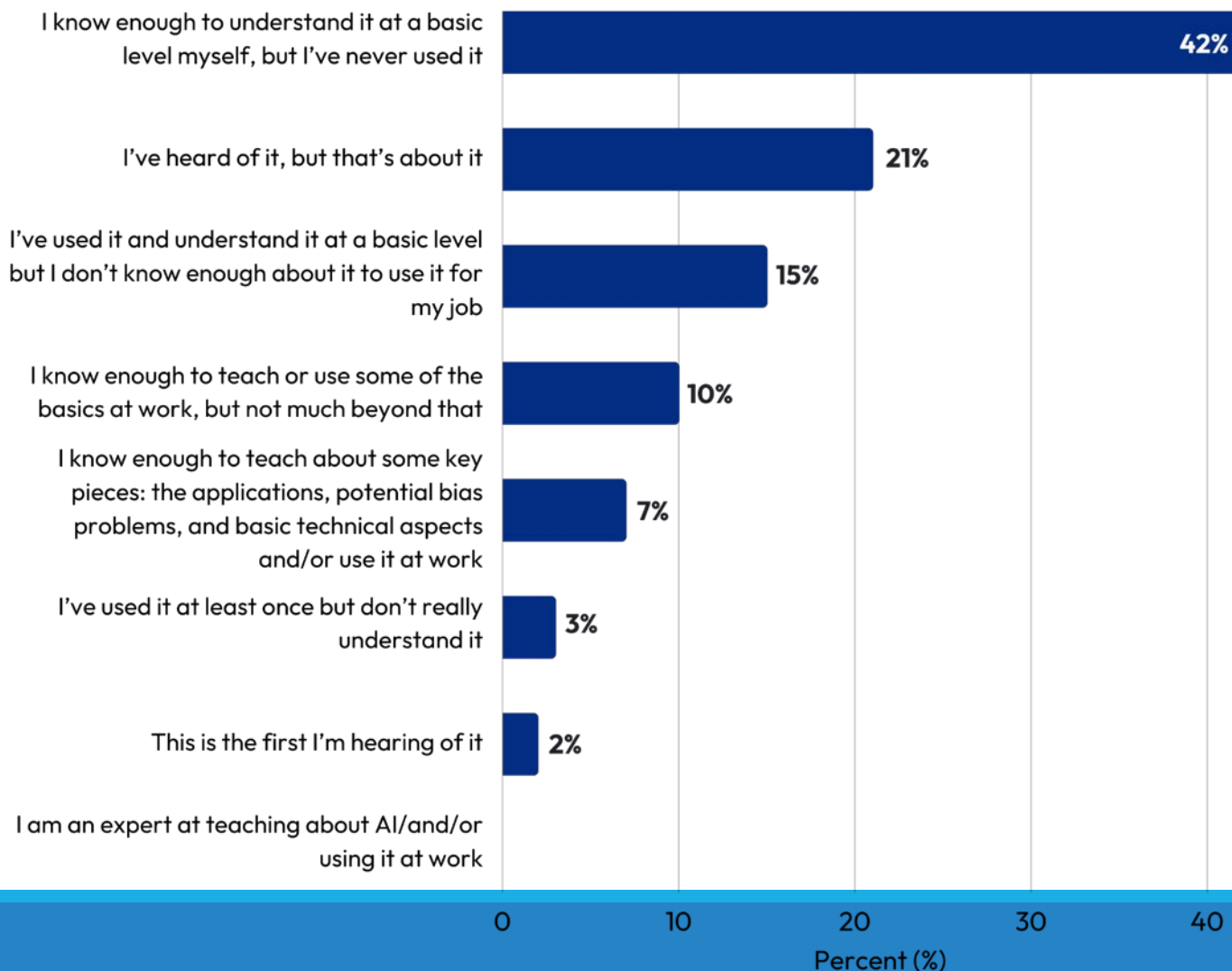
## Education Systems Worldwide Lack Guidance on AI

Only 7% of education systems provide guidance about the use of generative AI.



# Educators Need More AI Knowledge and Experience

## How knowledgeable are you about artificial intelligence?



75% have never used AI.

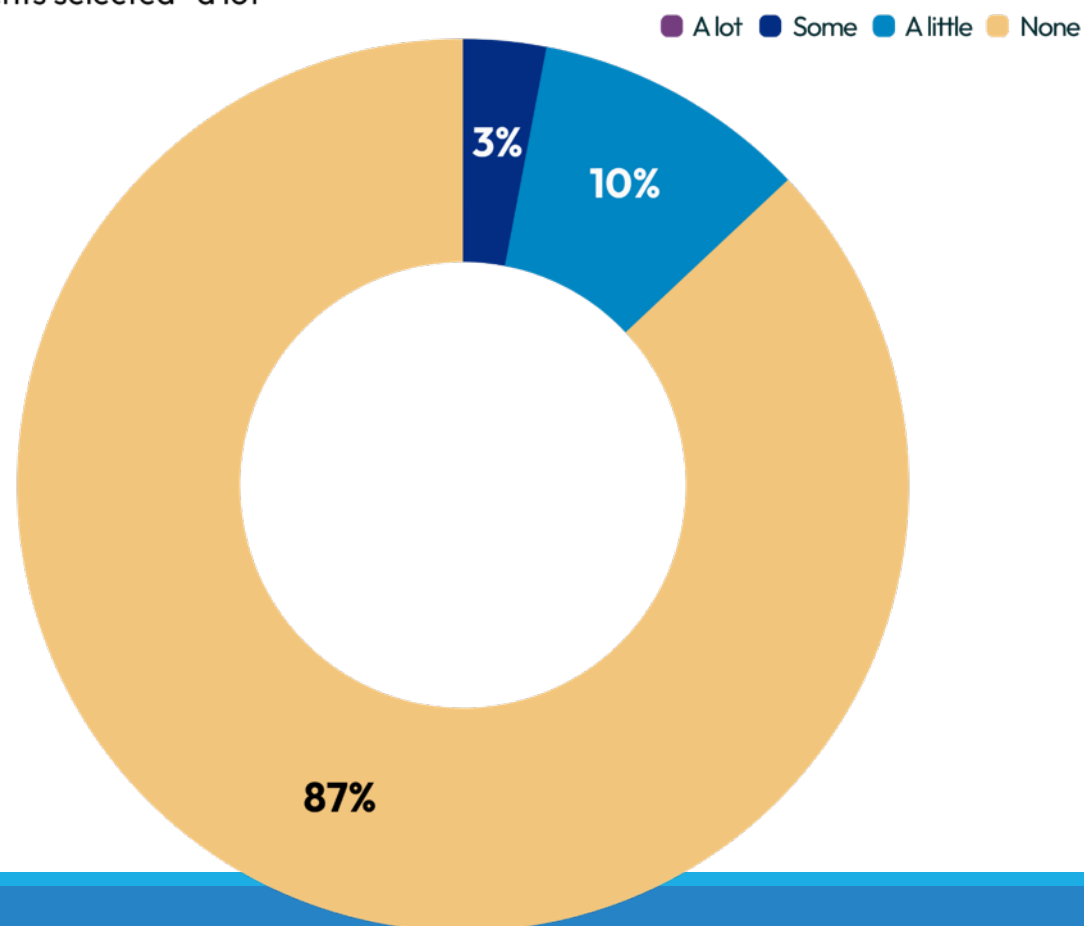
7% use it at work and can teach about applications, bias, and basic technical aspects.



## Educators Lack Professional Development on AI

How much professional development have you received about incorporating AI into your work in K-12 education?

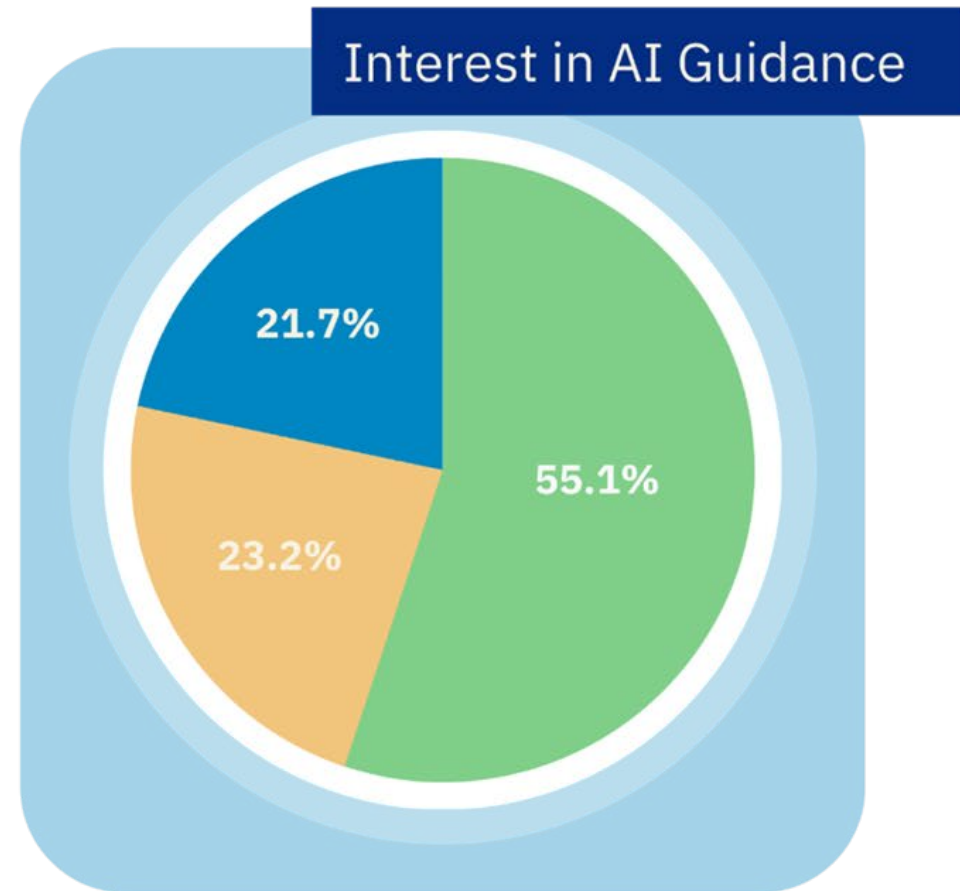
0% of respondents selected "a lot"



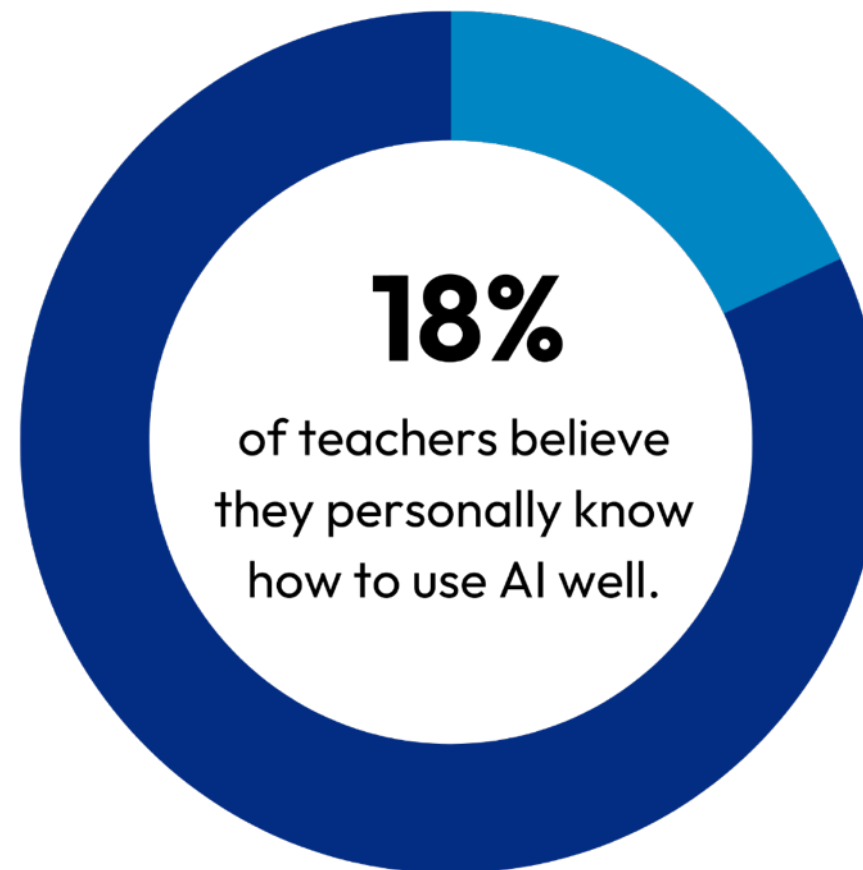
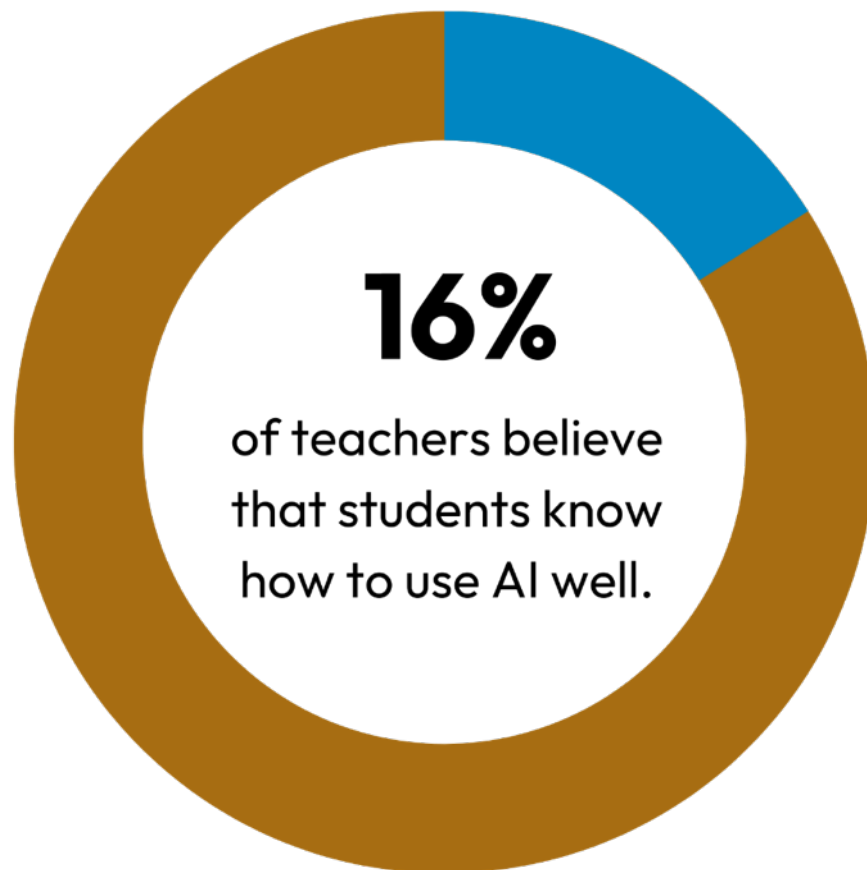
87% have never received any PD about AI.

# Educational Officials are Seeing Increased Interest in AI Guidance

- **Yes**  
55.1% of officials said they are seeing increased interest in guidance or policy around the use of AI in the classroom compared to last year.
- **No**  
23.2% of officials have not seen an increase in interest.
- **I'm not Sure**  
21.7% of officials are unsure if the interest has increased.



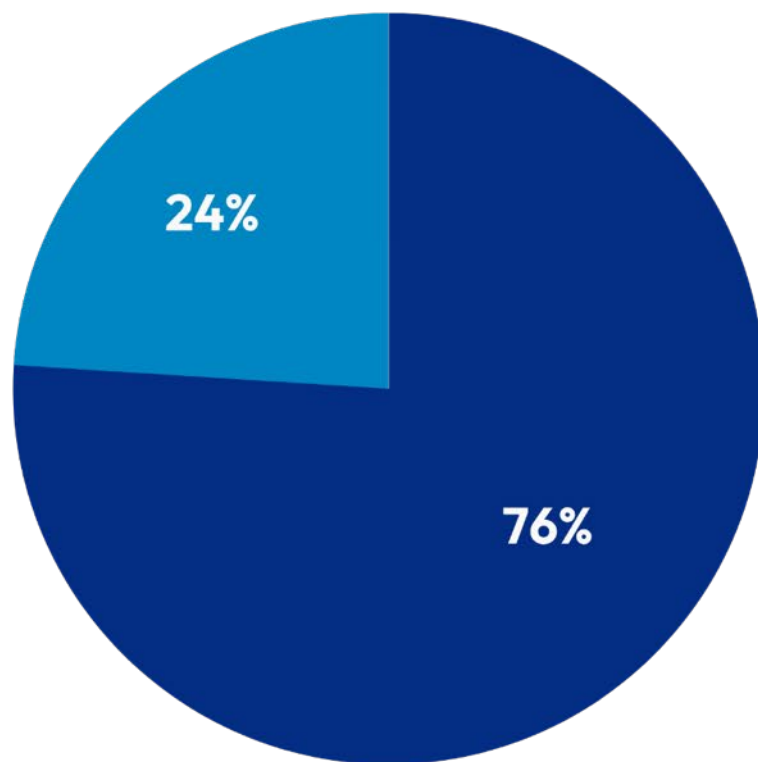
## Educators and Students Don't Know How to Use AI



## Teachers AI Use for Work

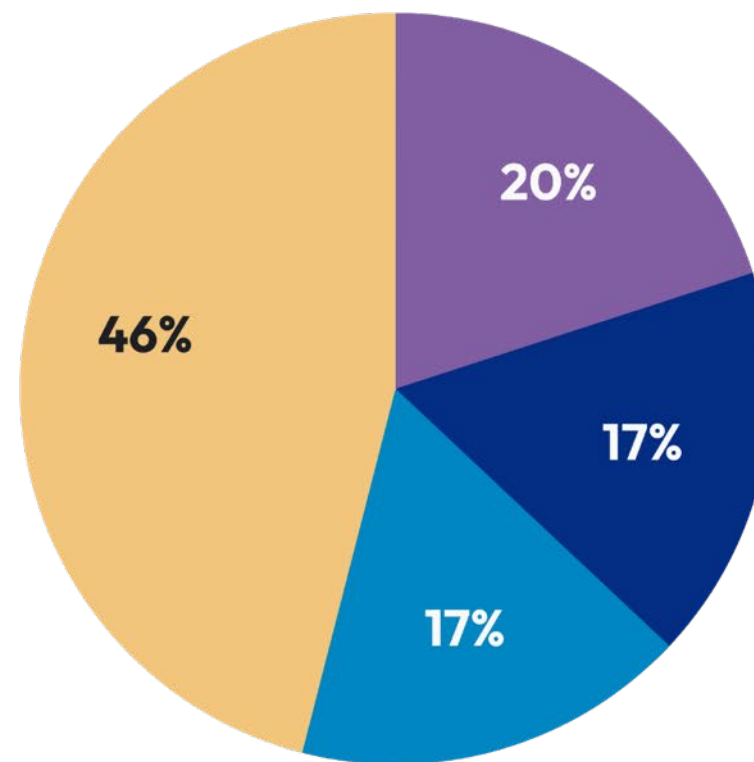
### Do teachers use AI for work?

Some use of AI for work Never use AI for work

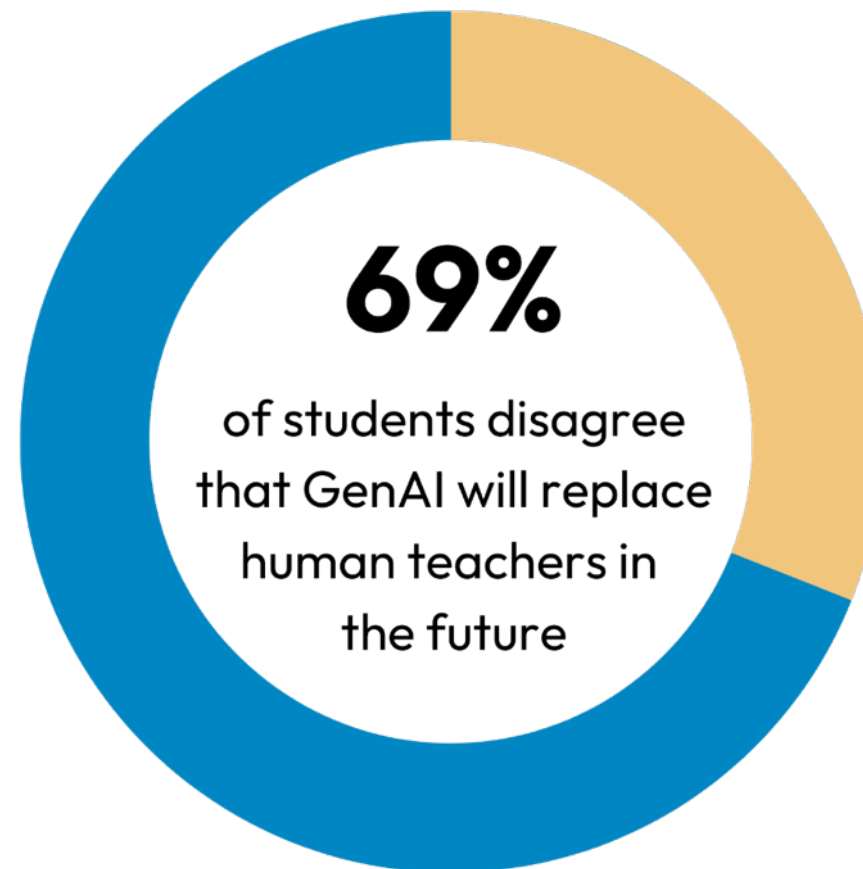
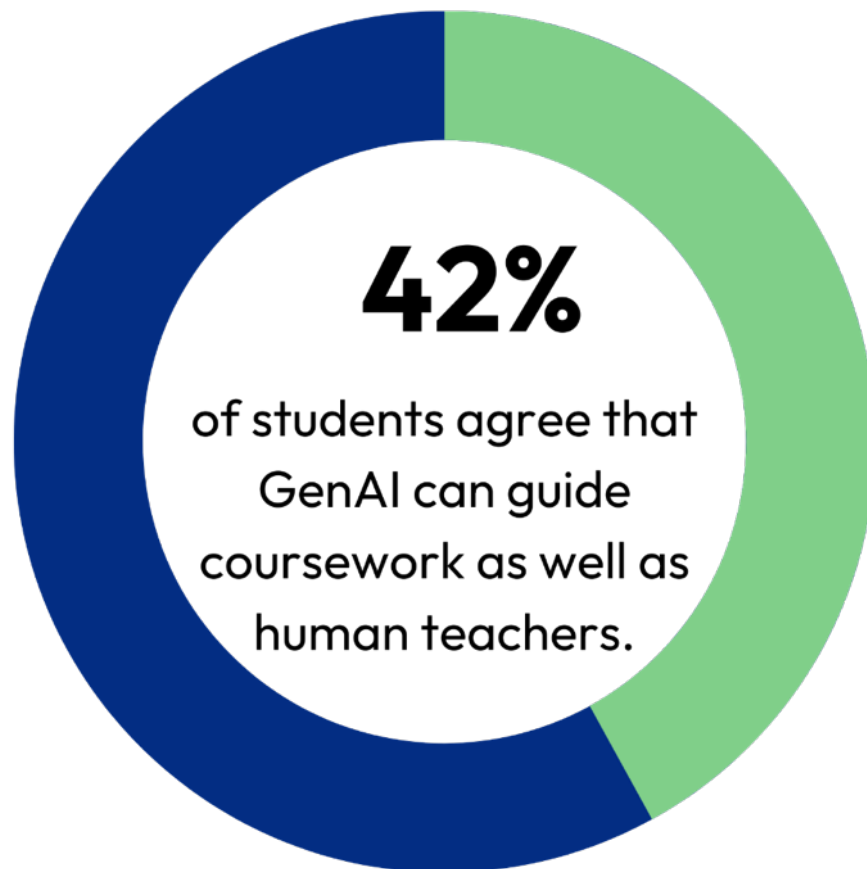


### If teachers use AI what do they use it for?

Planning and preparation Communication  
Individualized instruction Other



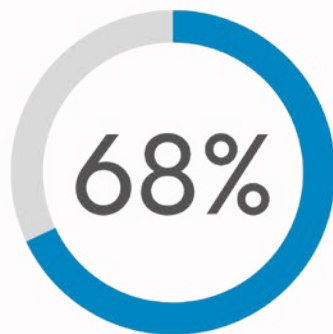
## Student Expectations for AI in the Classroom



## Post-Secondary Expectations for Future Careers

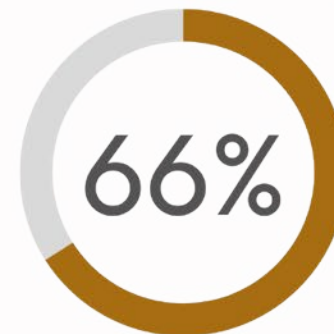
### Teachers

Agree that they expect to use GenAI tools increasingly in their teaching practices.



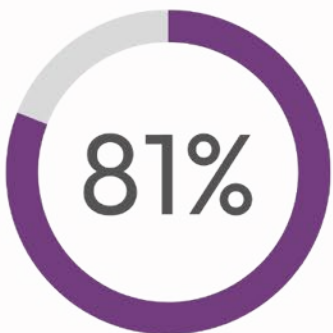
### Students

Agree that they expect to use GenAI tools increasingly in their learning practices.



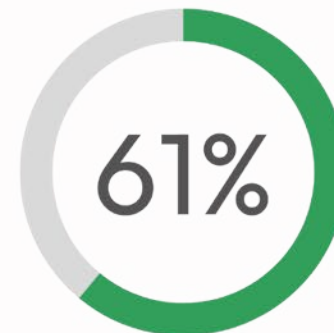
### Teachers

Agree that students must be taught how to use GenAI tools well for their future careers.



### Students

Agree that students must be taught how to use GenAI tools well for their future careers.

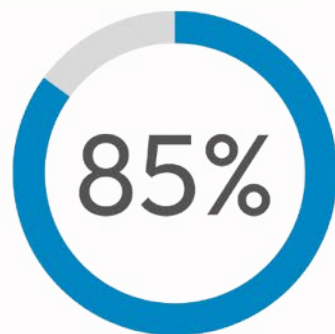




## Educators Agree that AI Will Impact the Classroom

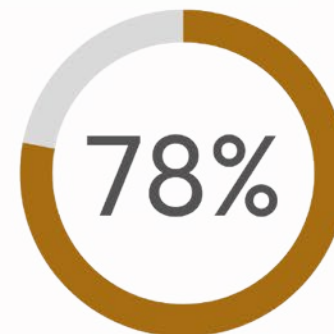
### Teachers

Feel that AI will have a significant impact.



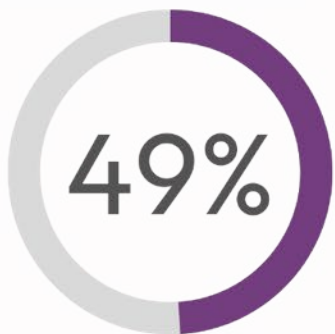
### Administrators

Feel that AI will have a significant impact.



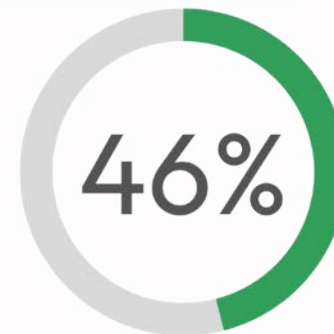
### Teachers

Express concern about the challenges of AI.



### Administrators

Express concern about the challenges of AI.



## AI Usage Has Led to Negative Consequences and Distrust.

### Negative Consequence

Half of teachers report a student has had negative consequences for improper use of AI

A donut chart with a blue segment representing 50% of the total.

50%

### Distrust

62% of teachers feel that AI has made them more distrustful of student's work

A donut chart with a purple segment representing 62% of the total.

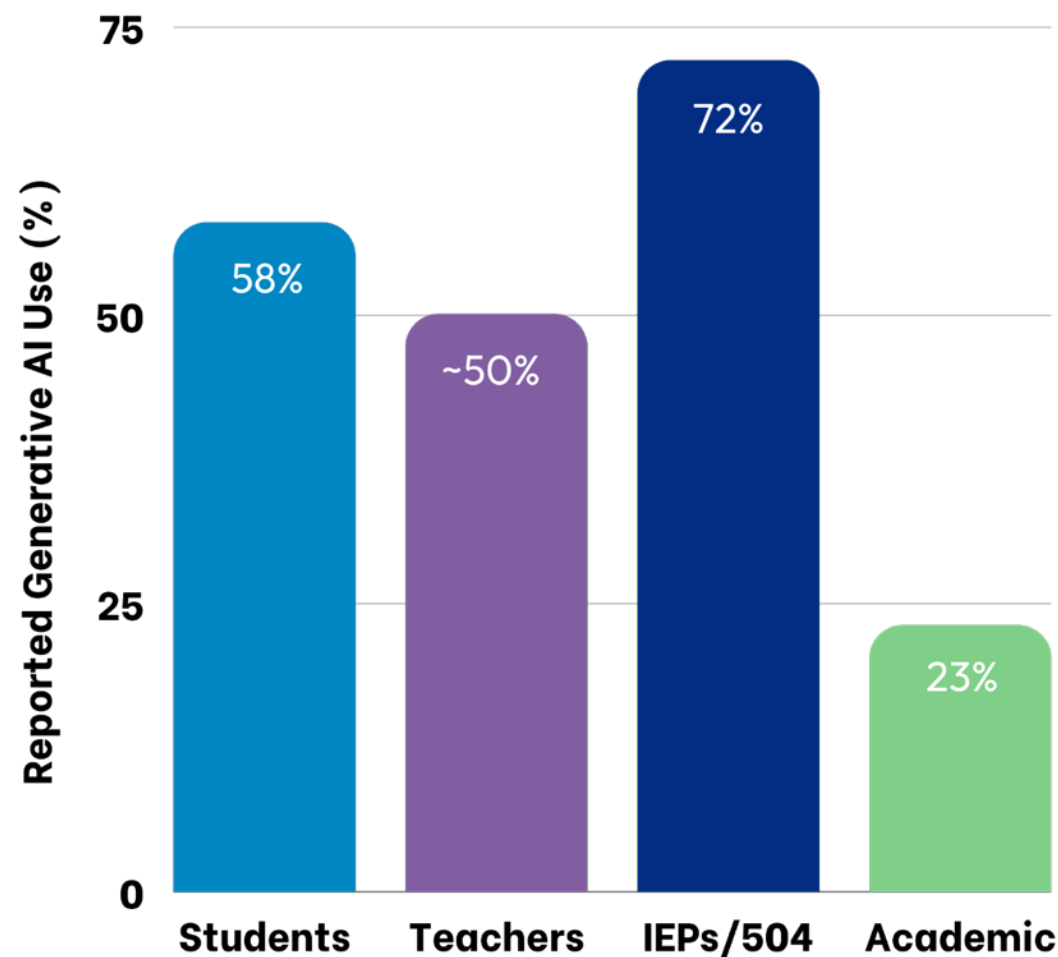
62%

## AI Usage in Education

AI usage among teachers and students is high.

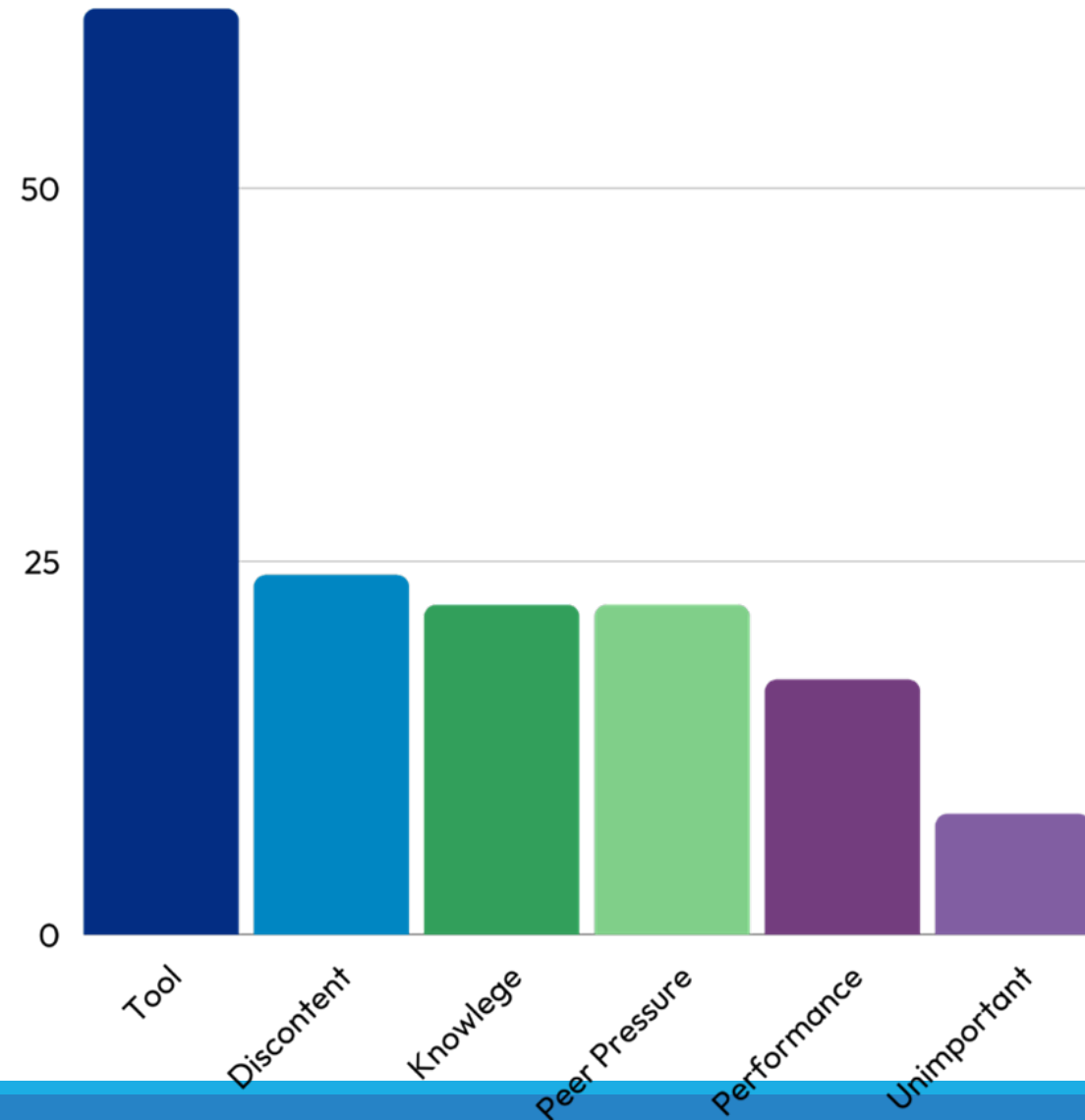
Students with IEPs and/or 504 plans report the highest use of generative AI tools.

However, use for academic purposes remains low at 23%.

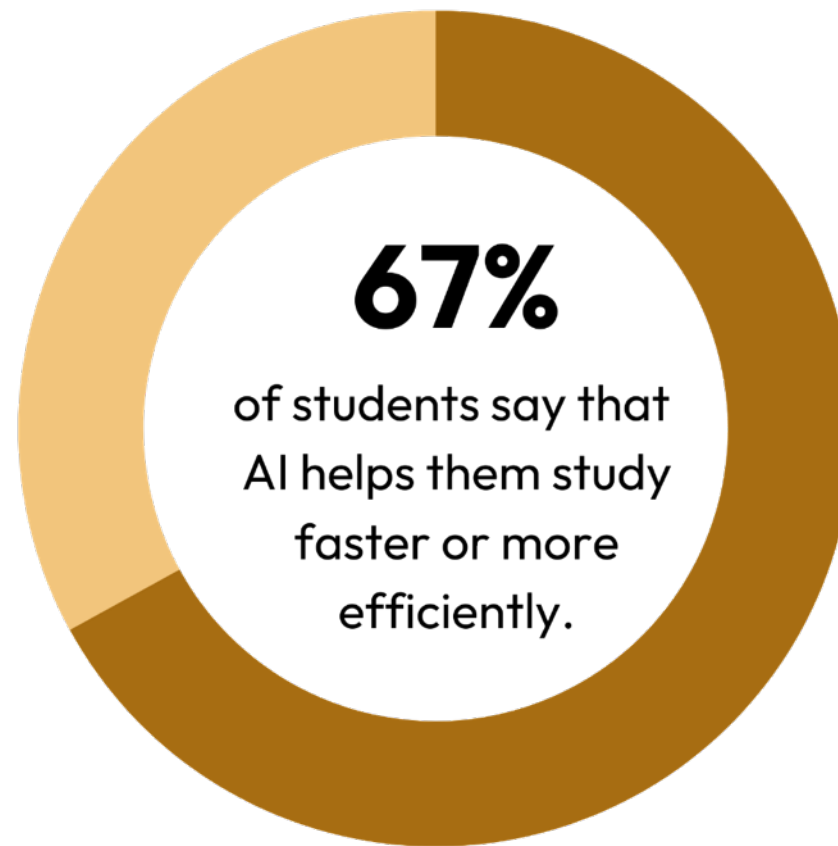
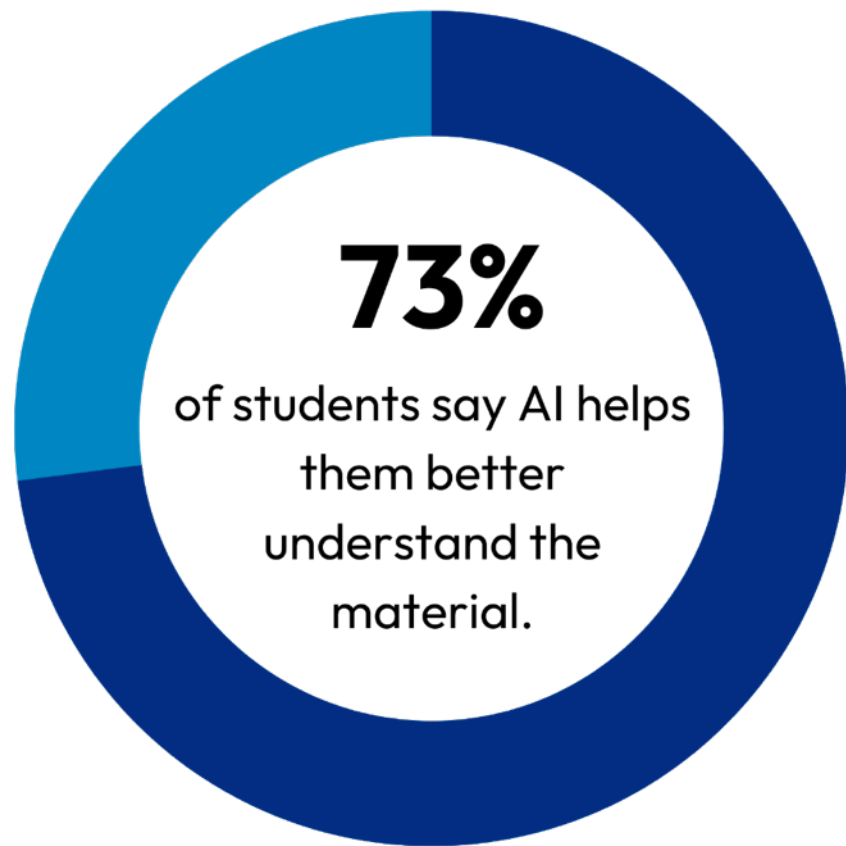


# Teen Students have Different Motivations for Using AI

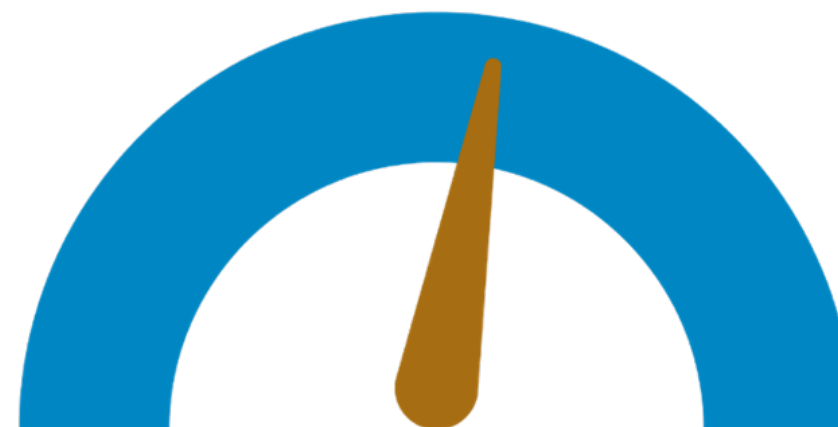
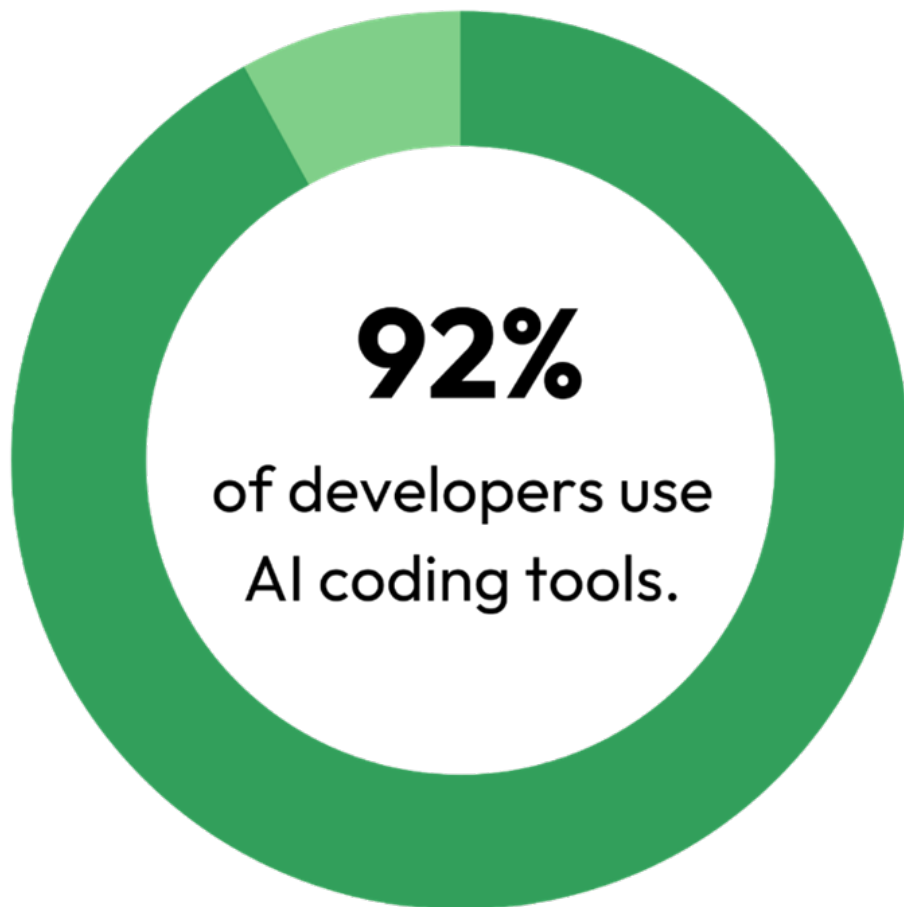
- **TOOL**  
62% of teens use AI because they view it as another tool for school work.
- **DISCONTENT**  
24% of teens use AI because they are unhappy with the school work.
- **KNOWLEGE**  
22% of teens use AI because they believe it eliminates the need to acquire specific knowledge.
- **PEER PRESSURE**  
22% of teens use AI because of peer pressure from other students.
- **PERFORMANCE**  
17% of teens use AI because they fear poor performance without AI.
- **UNIMPORTANT**  
8% of teens use AI because they deem the subject knowledge as unimportant.



## Students See the Benefits of AI in the Classroom



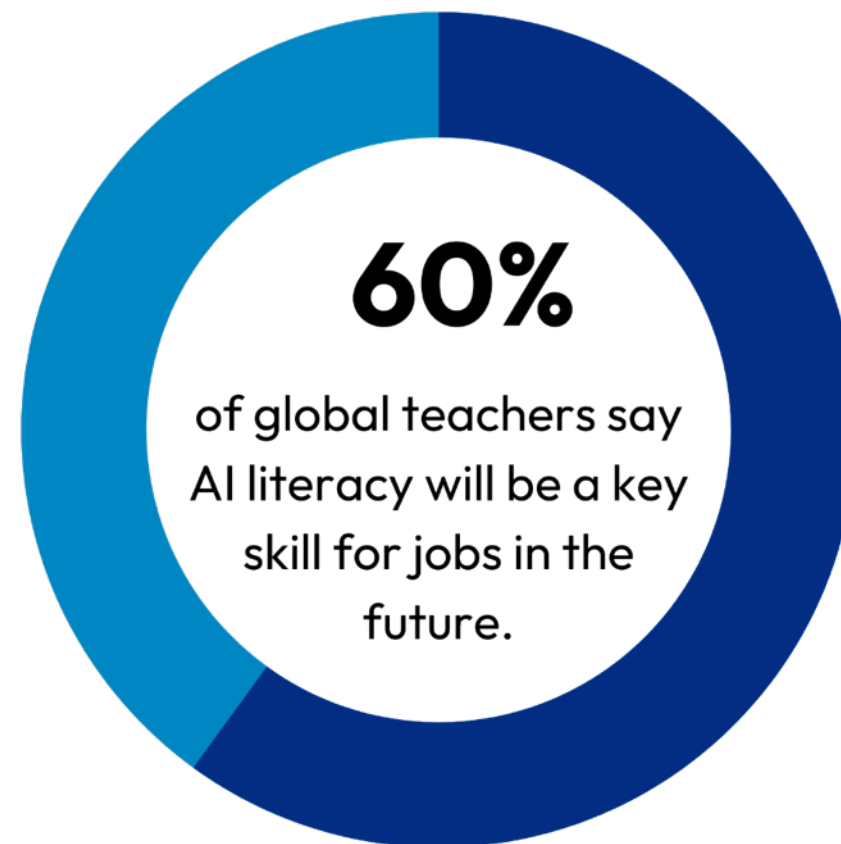
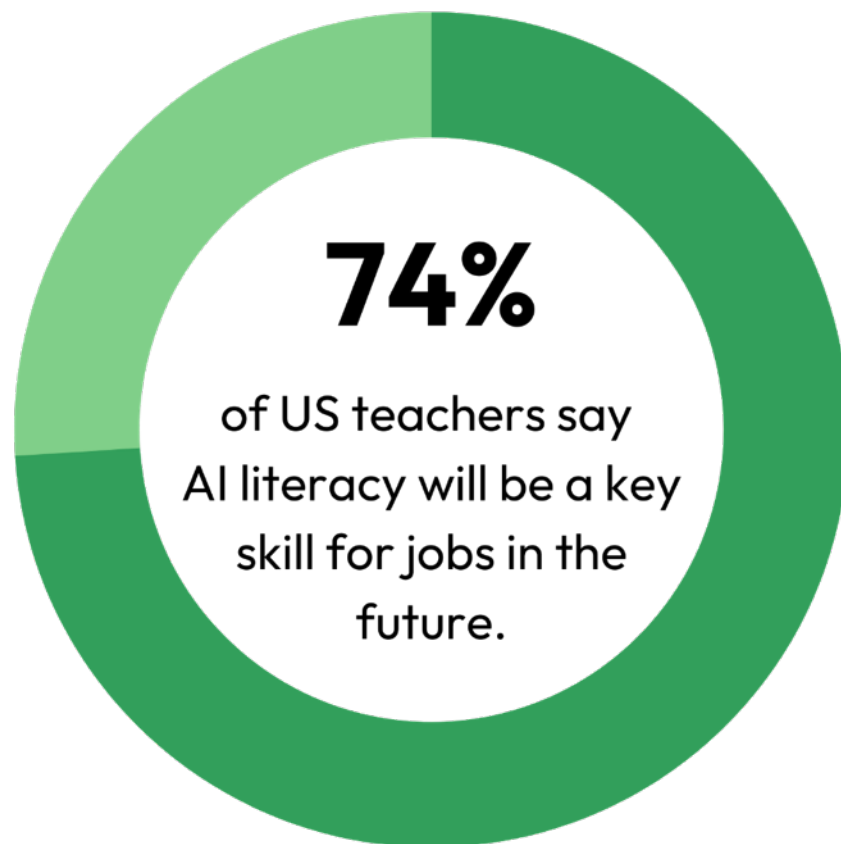
## How AI is Impacting Software Developers



Developers who use GitHub Copilot (an AI coding tool) code 55% faster.



## Teachers Believe AI Literacy is an Important Skill



# Questions?

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Kevin M. Hustek, CTO, Director of Technology, Warren Woods Public Schools

[khustek@mywwps.org](mailto:khustek@mywwps.org)

586.439.4567

 [@kevinhustek](#)

Neil R. Cassabon, CFO, Deputy Superintendent, Warren Woods Public Schools

[ncassabon@mywwps.org](mailto:ncassabon@mywwps.org)

586.439.4413

 [@wawncassabon](#)

# Finalize Credit for Attendance

**New Process:** The MSBO Evaluation is your record for attendance.

Please complete by January 25

- ✓ Receive an email from survey monkey for the MSBO evaluation. Your evaluation will be your record for attendance.
- ✓ Receive e-mail from MOECS-noreply@michigan.gov to fill out an evaluation for SCECHs.