# 2022 US K12 EdTech Product Safety Benchmark

Last Update: February 4, 2024



#### Contents

- Overview
- Research Methodology
- Findings Report 1 Summary
- Findings Report 2 Summary
- Findings Report 3 Summary
- Recommendations

#### Scope

- This is a living presentation and will be updated with every published Findings Report from the 2022 Benchmark data.
- At the time of this publishing, the presentation covers Findings Reports 1 through 3.

## Key Research Questions

- How much EdTech are schools recommending/requiring students to use?
- What are the privacy risks in EdTech students required/recommended to use?
  - How safe is EdTech in K-12 US schools?
- What tech practices are schools performing in the US?
- Do certifications / pledges /contracts have an effect on app safety?
- What demographic patterns were observed?

## Leliverables

- Findings Report 1: App Safety Findings
- Findings Report 2: School Tech
  Practices & 3<sup>rd</sup> Party
  Certifications
- Findings Report 3: Demographic Analysis
- Tableau Benchmark Dashboard
- Safety Labels for Apps: https://appmicroscope.org



# Collection – By the Numbers

- 663 schools
  - 50 states + DC
  - Covering 455,882 students
  - 29,000+ data points
- 1722 apps identified
  - 88,000+ data points
- 1357 apps scored
  - Plus network traffic collection

#### Caveats

- Identified technologies from school and district websites
- Tested apps not websites/webservices
- Tested free versions of apps
  - Did not have schoolprovided credentials

#### ISL App Safety Score Rubric

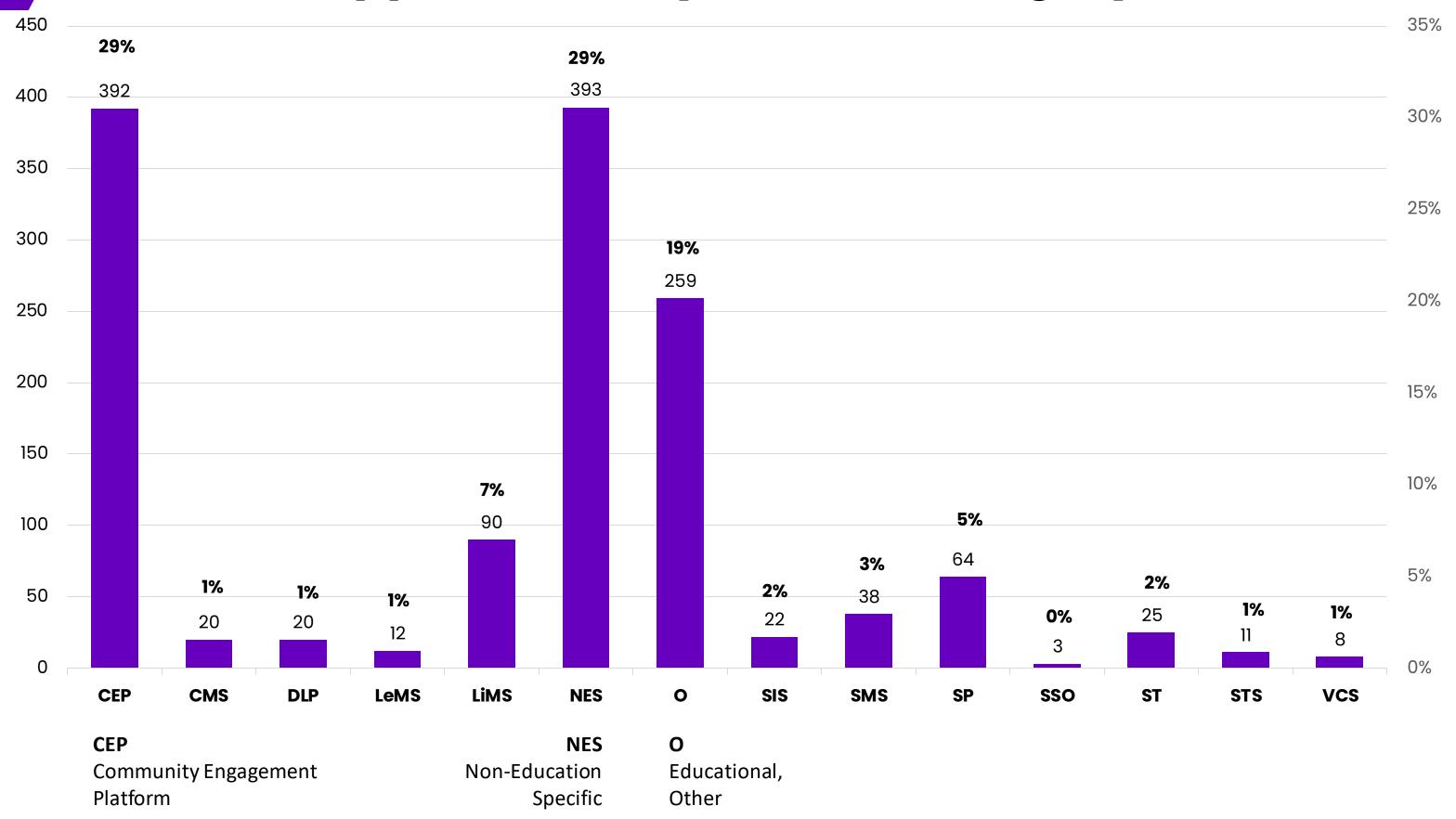
SOME RISK	HIGH RISK	VERY HIGH RISK*	UNABLE TO TEST
	Presence of at least one (1) SDK that is High Risk or Very High Risk	Presence of advertising (any)	Login required; core functionality that we were not able to access as a result
	WebView Use	Presence of one (1) or more registered Data Broker SDKs	Paid app
	Presence of up to two (2) of the following data aggregator platforms (SDKs or NW traffic): Apple, Google	Presence of one (1) or more of the following data aggregator platforms (SDKs or NW traffic): FB, Amazon, Twitter, Adobe	Broken App
	Presence of a dangling domain	Presence of MaxPreps	
		Questionable permission behavior.	

<sup>\*</sup> Called "Do Not Use in first two reports. Renamed to Very High Risk on launch of App Microscope.

# Edtech Categories

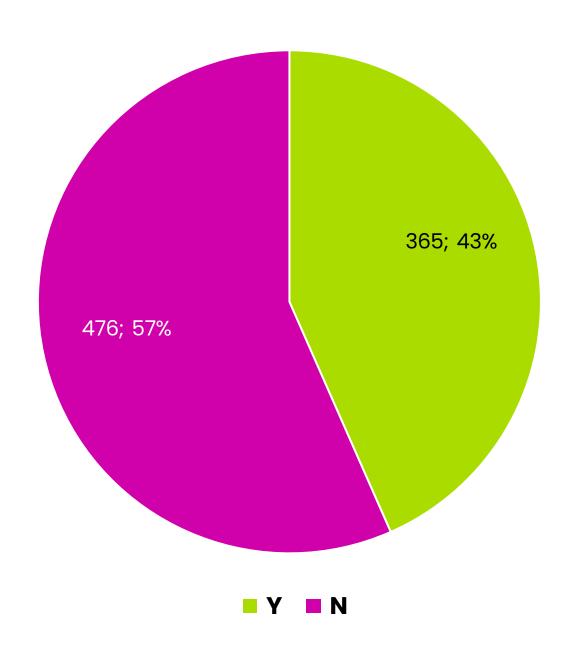
- Classroom Messaging Software (CMS)
- Community Engagement Platform (CEP)
- Digital Learning Platform (DLP)
- Learning Management System (LeMS)
- Library Management Software (LiMS)
- Non-Education Specific (NES)
- [Educational] Other(o)
- School Transportation Software (STS)
- Safety Platform (SP)
- Single Sign On (SSO)
- School Management Software (SMS)
- Student Information System (SIS)
- Study Tools (ST)
- Virtual Classroom Software (VCS)

#### **Apps Tested by Edtech Category**

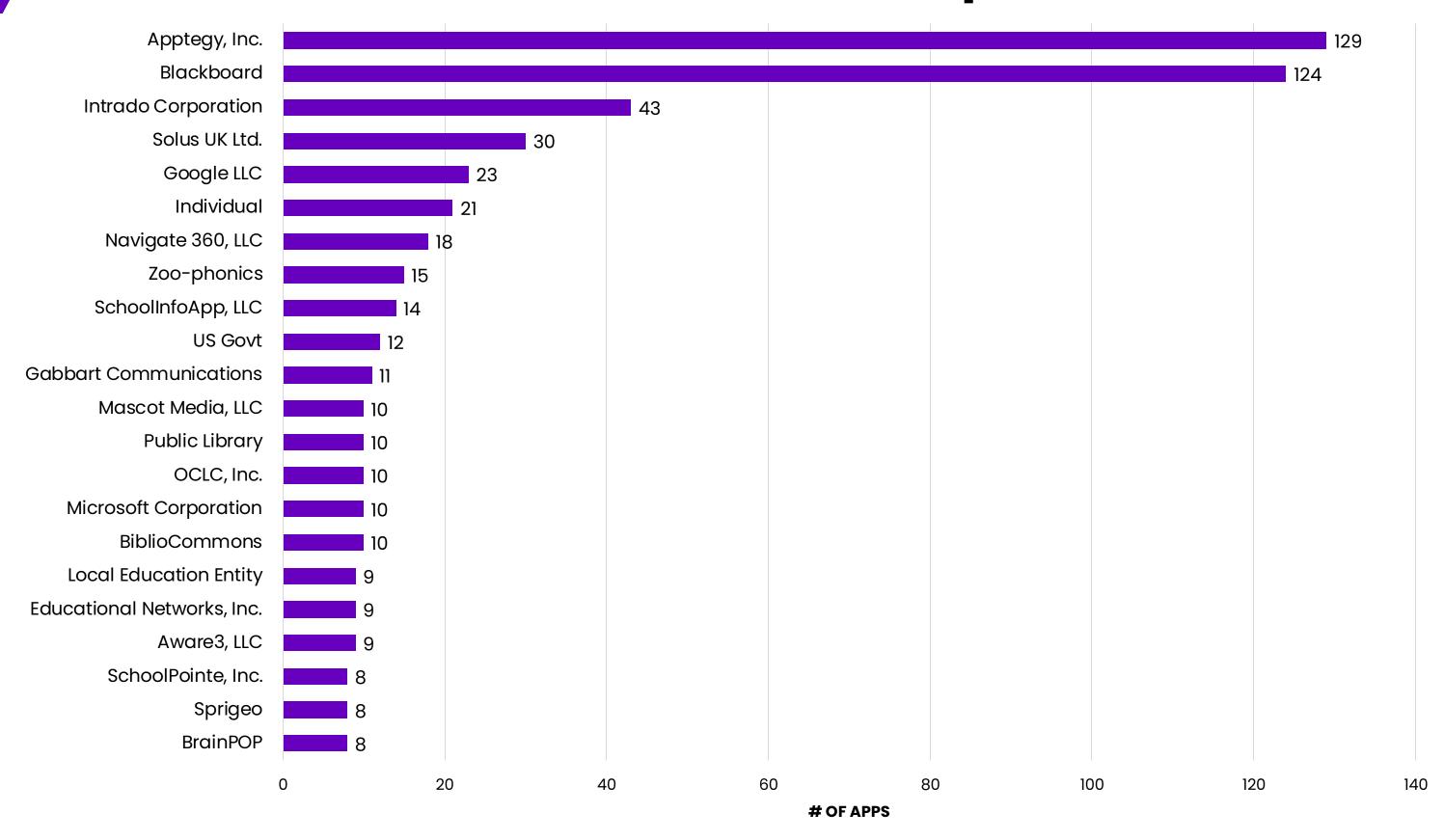


### 476 (28%) of All Apps Were NOT for Children

#### NES and O Combined for Children



#### **Most Common Developers**



# US K12 EdTech Benchmark Findings Report 1: Key Findings

Pub: December 2022

## Key Research Questions

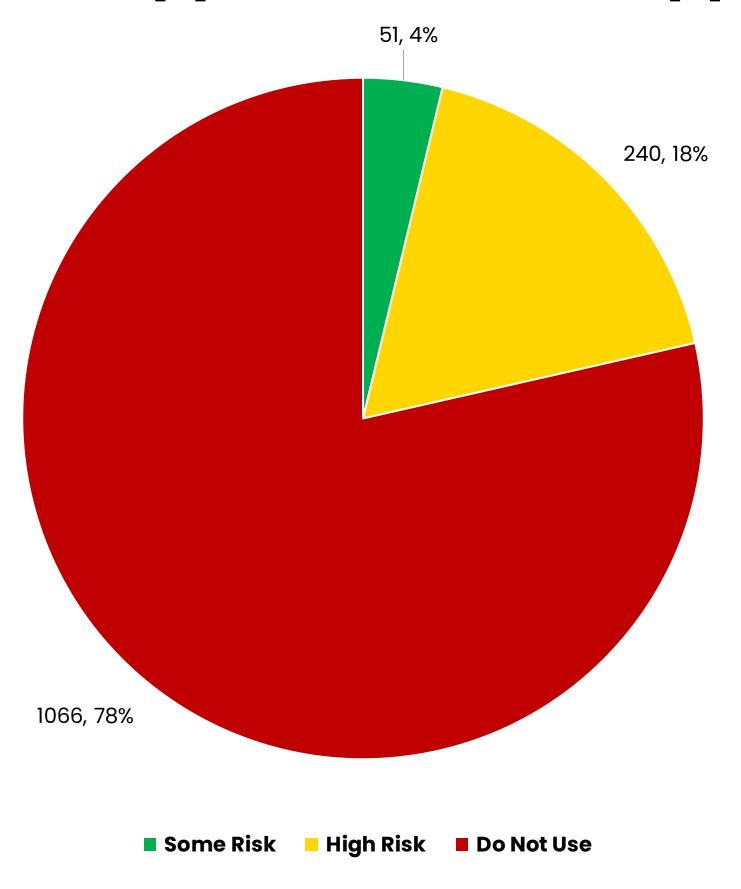
- How much EdTech are schools recommending/requiring students to use?
- What are the privacy risks in EdTech students required/recommended to use?
  - How safe is EdTech in K-12 US schools?

## Key Deliverables

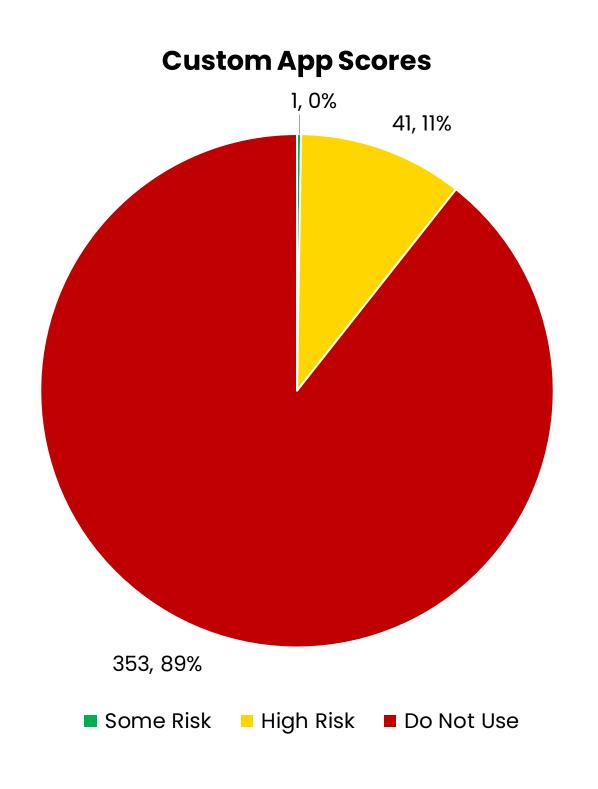
- Findings Report 1: App Safety Findings
- Safety Labels for Apps: https://appmicroscope.org

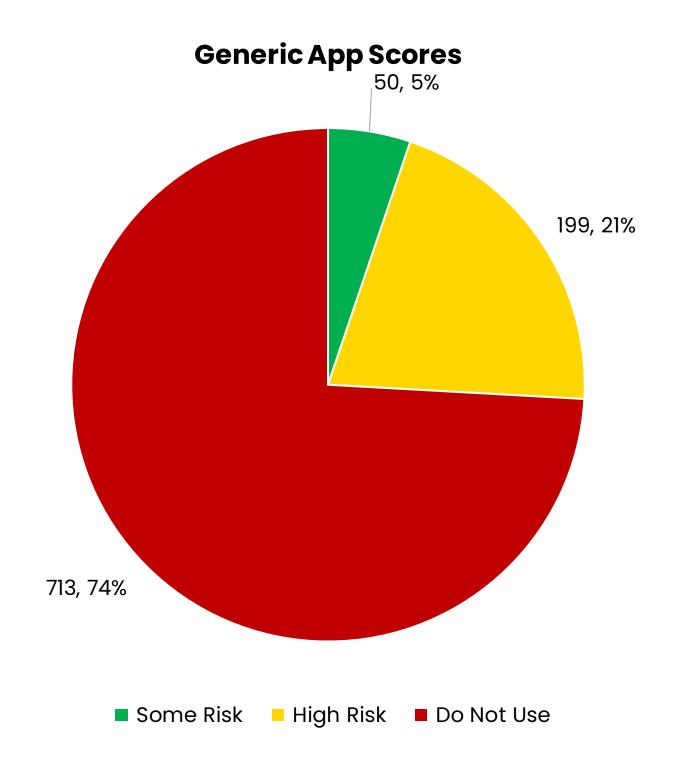
- Most apps used by K12 students are unsafe for children.
  - Custom CEP apps (aka "School Utility Apps") for school districts are less safe than NES and O apps.
  - From a safety perspective, iOS has slight advantage over Android.

#### App Scores (1357 apps)

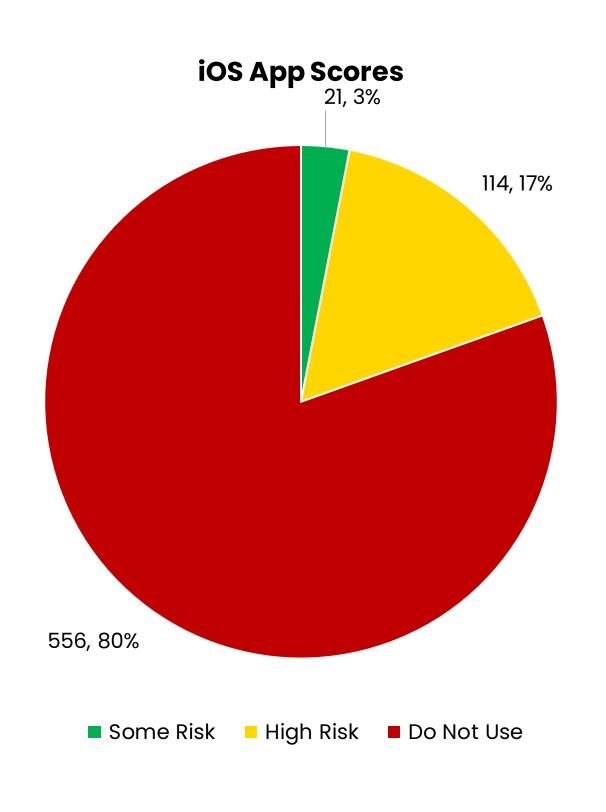


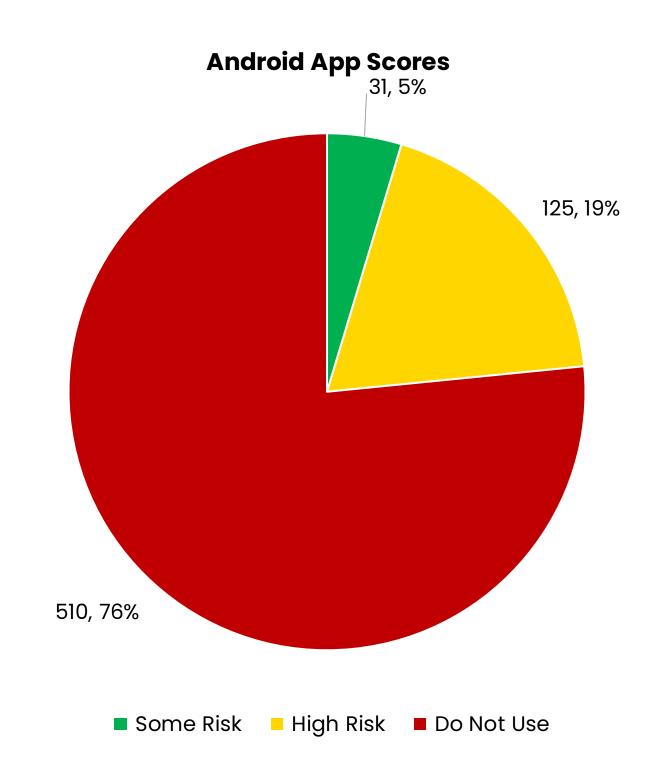
#### Comparing Custom and Generic App Scores



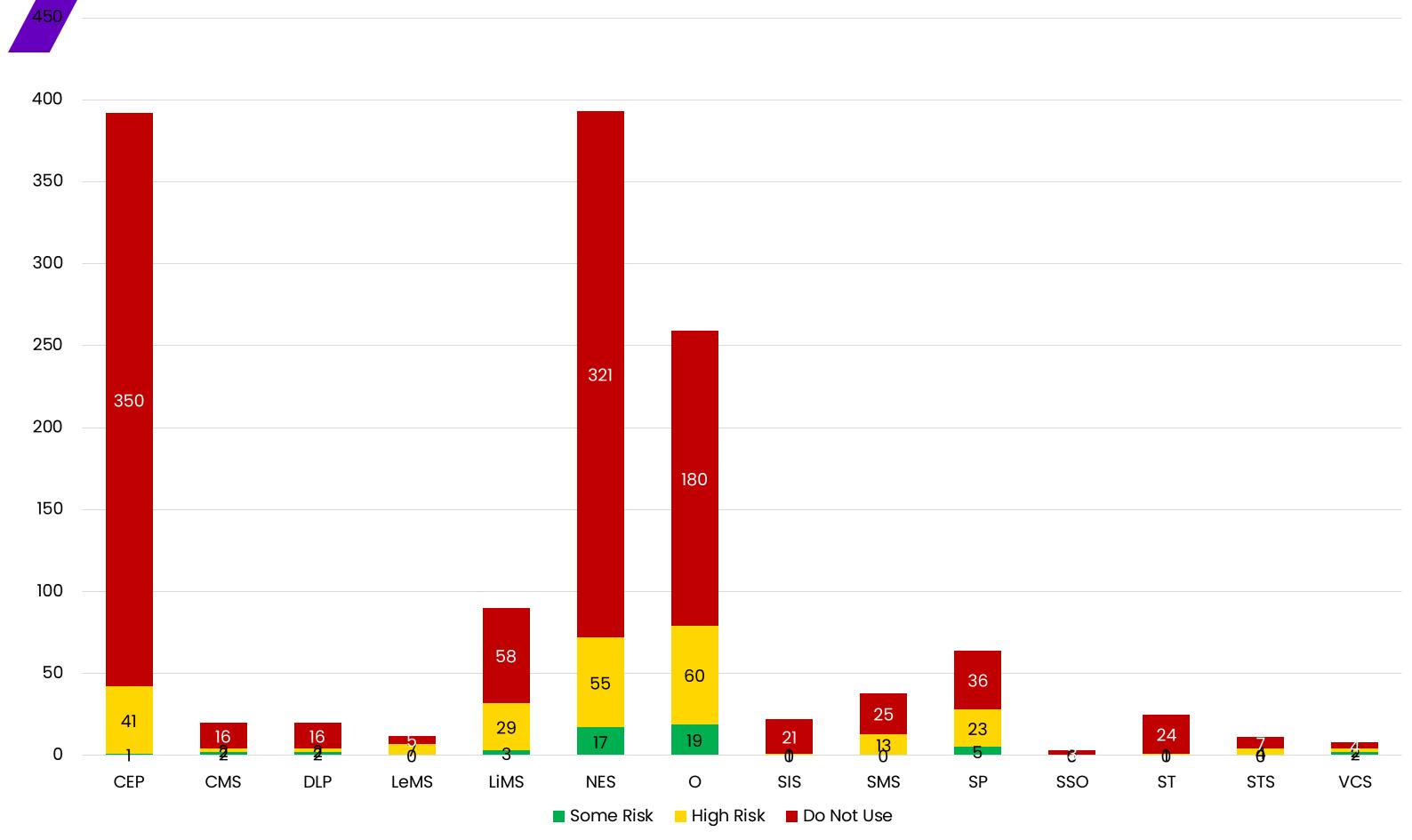


#### Comparing iOS and Android Scores



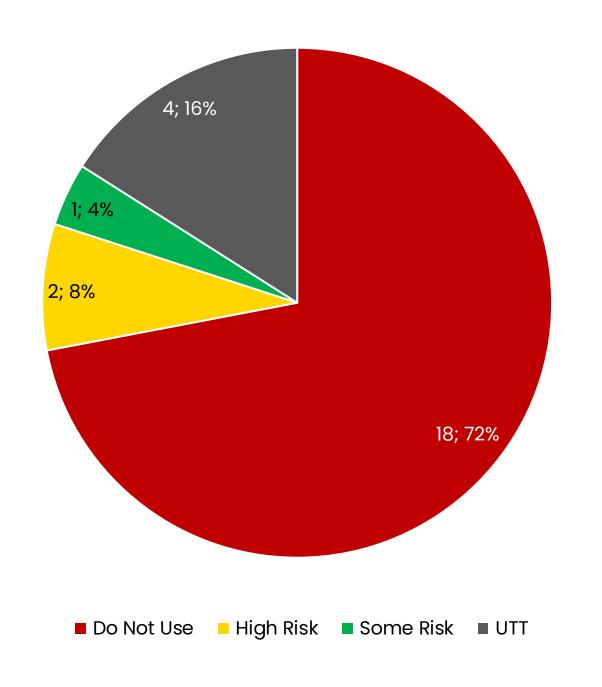


#### **App Scores by Category**

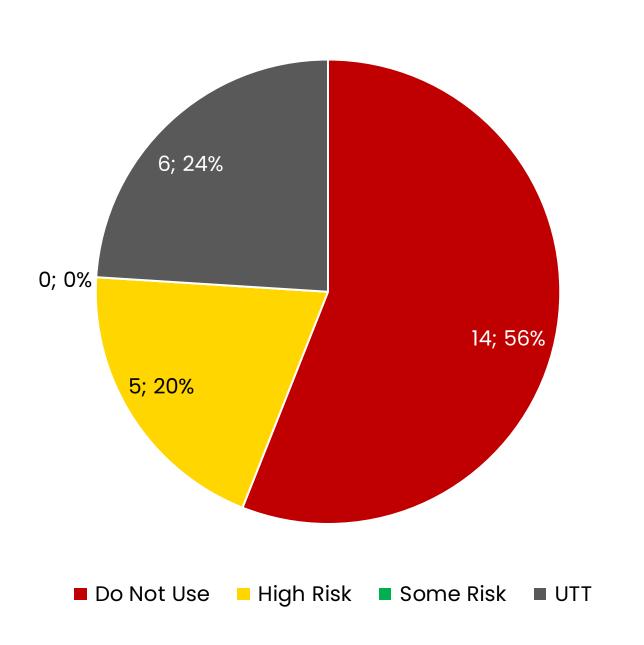


#### Most Recommended vs. Most Required

25 Most Recommended App Scores



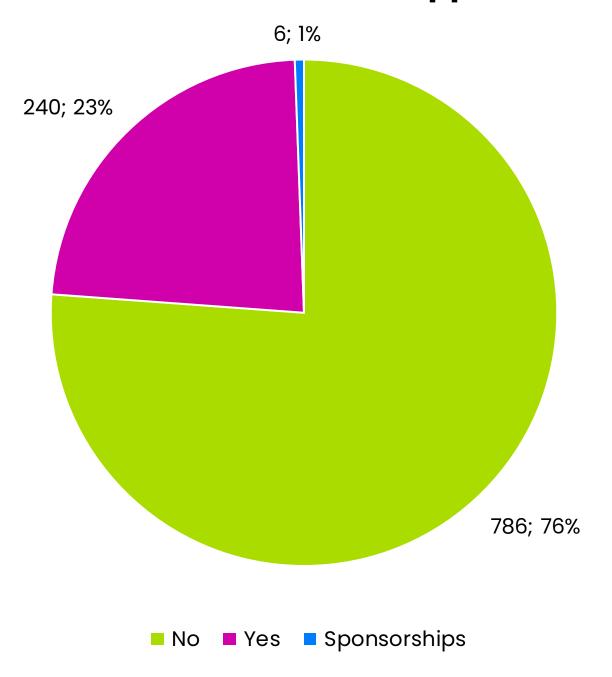
Top 25 Mandatory/Key Apps by App Score



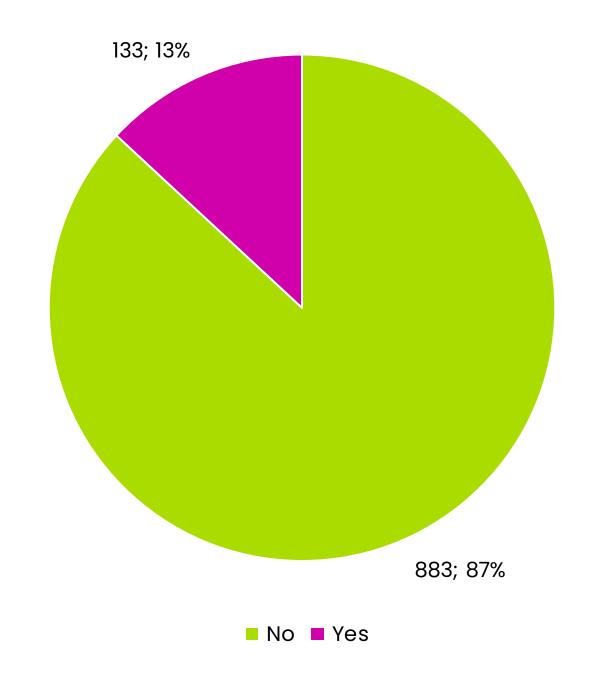
- Most apps used by K12 students are unsafe for children.
  - Custom CEP apps for school districts are less safe than NES and O apps.
  - From a safety perspective, iOS has slight advantage over Android.
- 23% of apps used by K12 students include ads.
  - 13% include retargeting ads.

#### Advertising in K12 Edtech

#### Ad Presence - All Apps

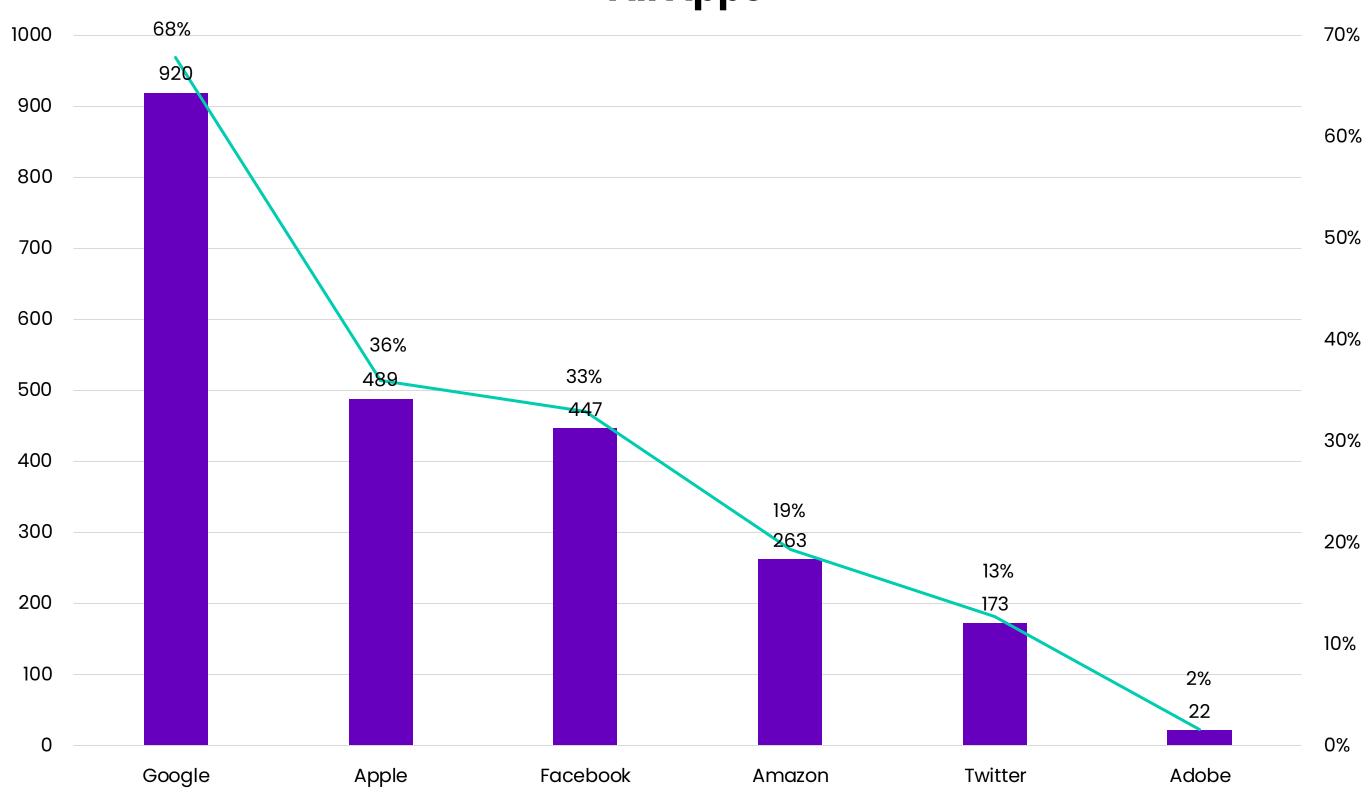


#### Retargeting Ad Presence - All Apps

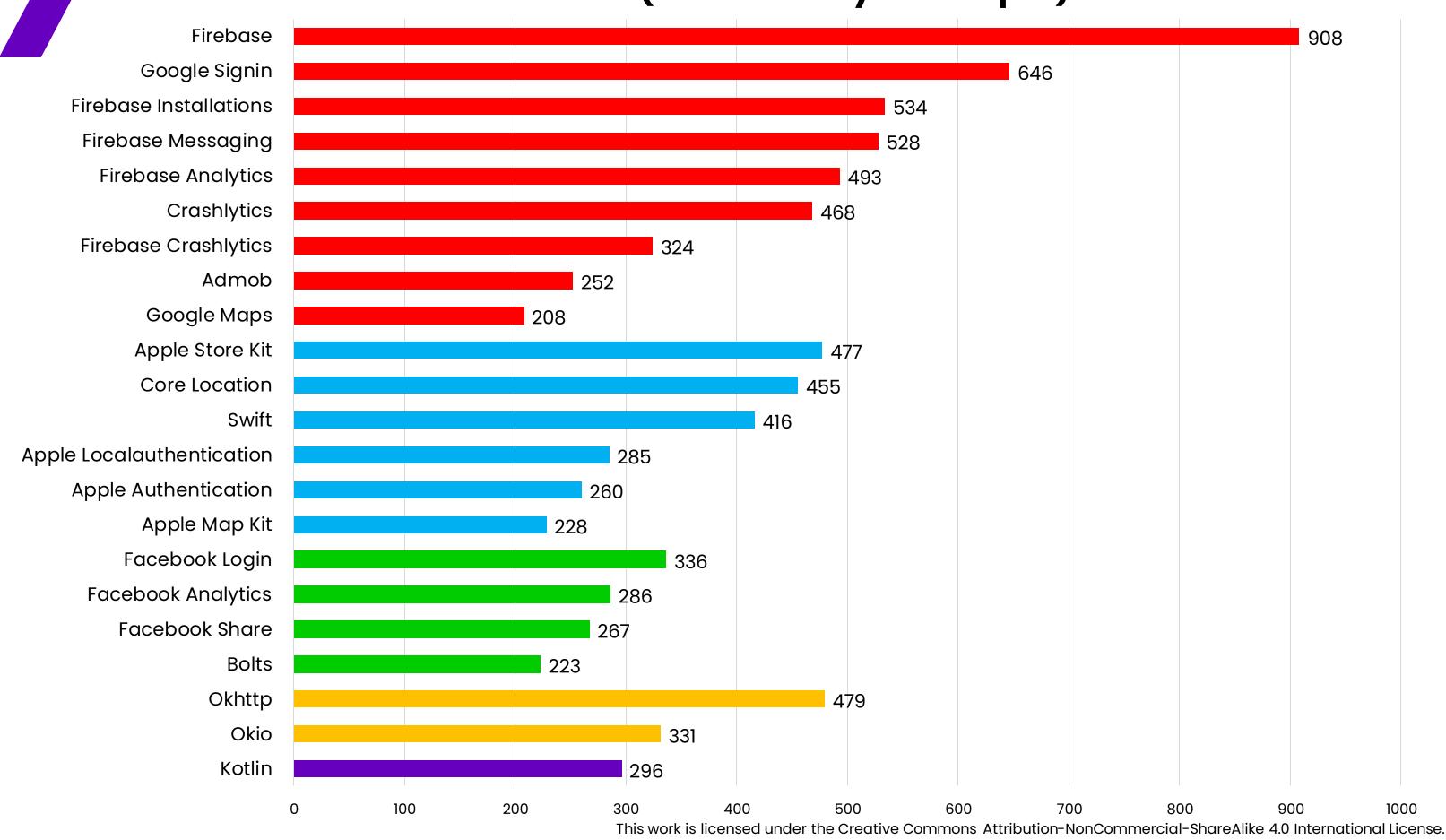


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- Google dominates K12 edtech in the US.

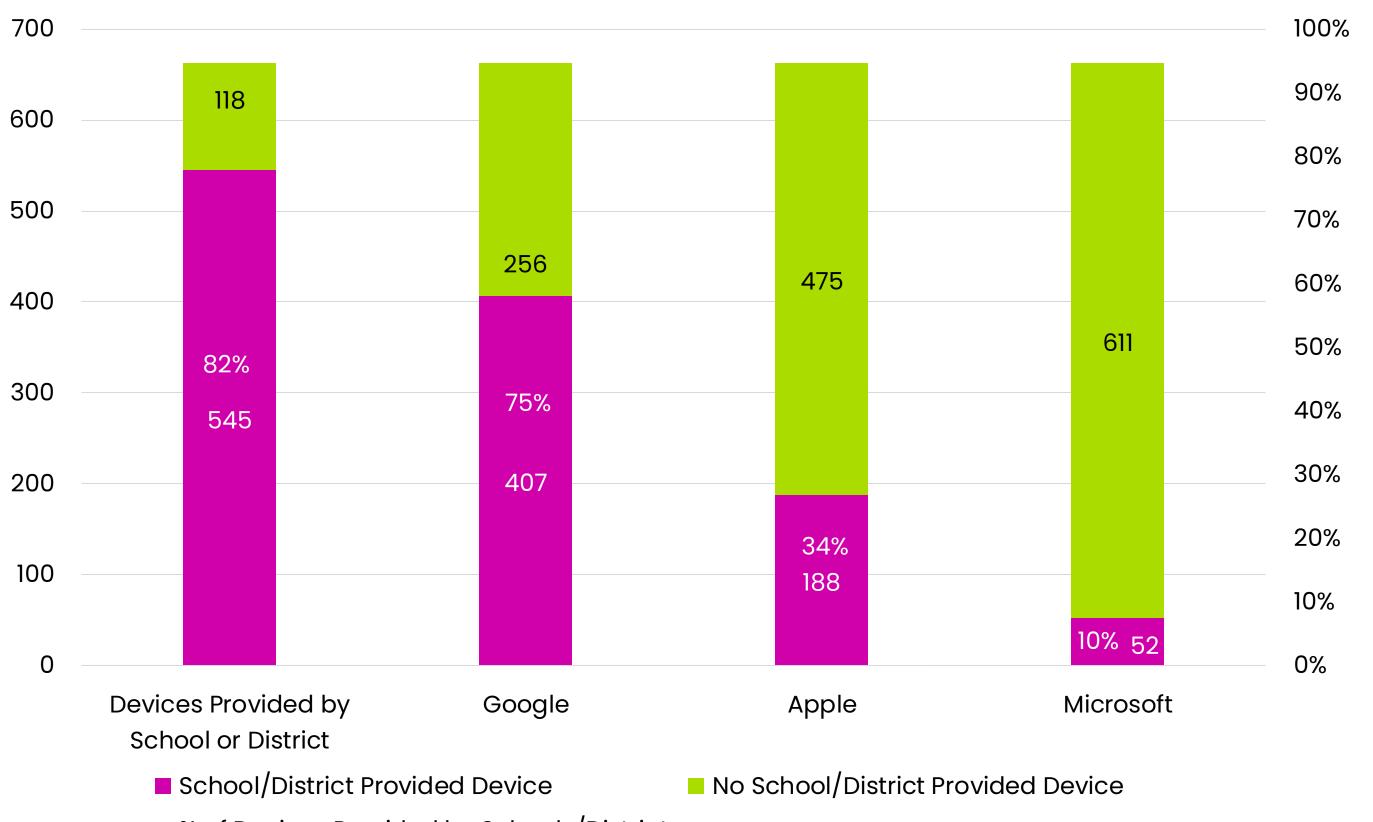
## Observed Network Traffic to Big 6 Platforms - All Apps



#### Most Used SDKs (Clustered by Developer)



## School/District Provided Computing Devices by OS Vendor

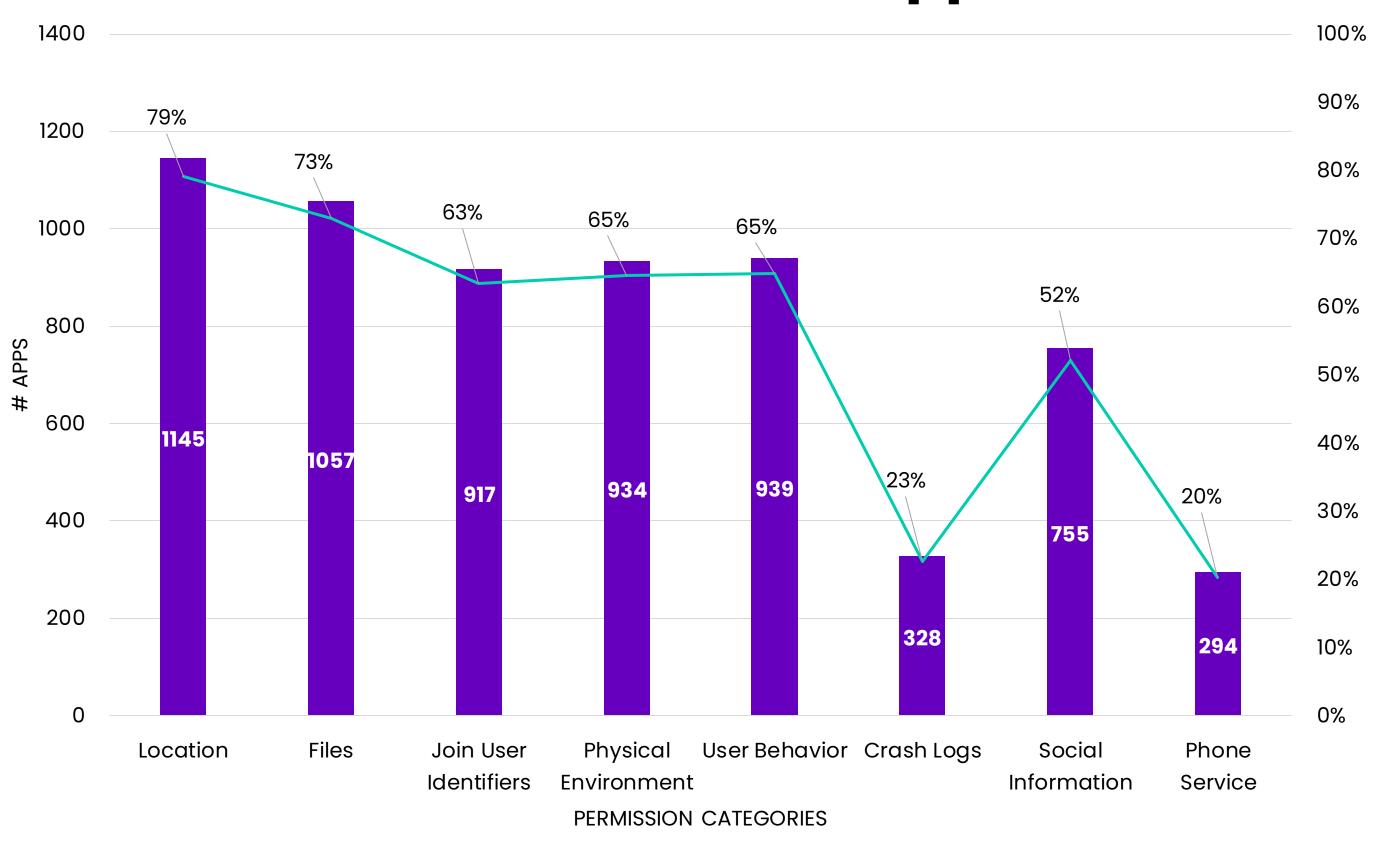


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- "Edtech" isn't kidtech.

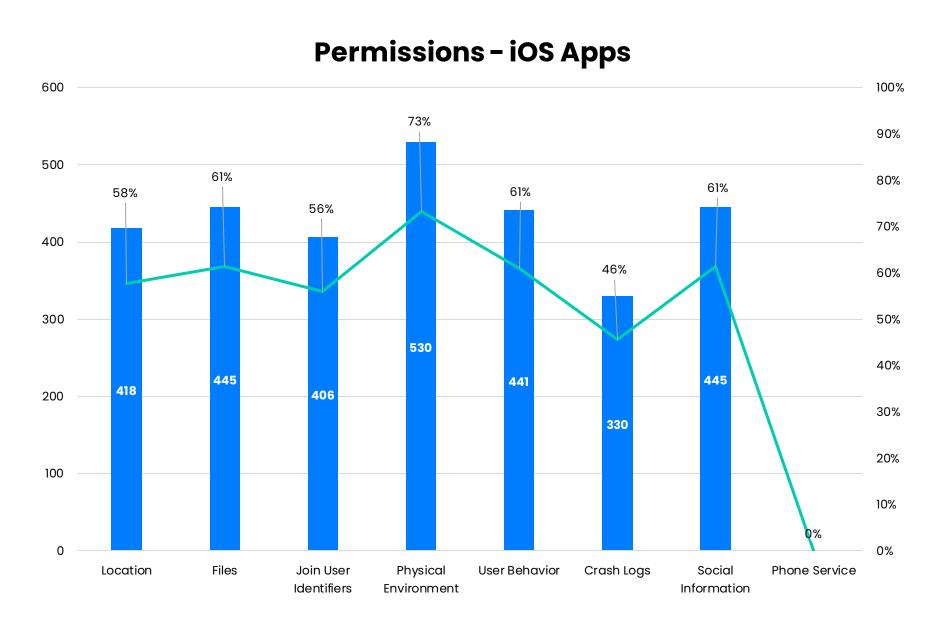
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- 82% of schools provide personal computing devices to students.

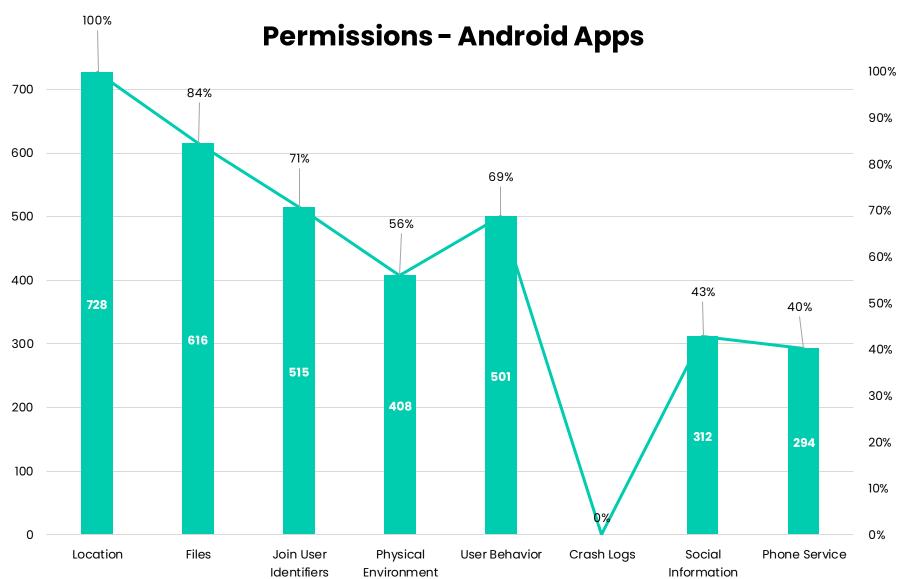
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- Google dominates K12 edtech in the US.
- "Edtech" isn't kidtech.
- 82% of schools provide personal computing devices to students.
- 79% of apps access location

#### Permissions - All Apps



#### Permissions by OS





# US K12 EdTech Benchmark Findings Report 2: Key Findings Pub: June 2023

### Key Research Questions

- What tech practices are schools performing in the US?
- Do certifications / pledges /contracts have an effect on app safety?

## Leliverables

- Findings Report 2: School Tech Practices & 3<sup>rd</sup> Party Certifications
- Tableau Benchmark Dashboard

# SchoolTechnologyBehaviors

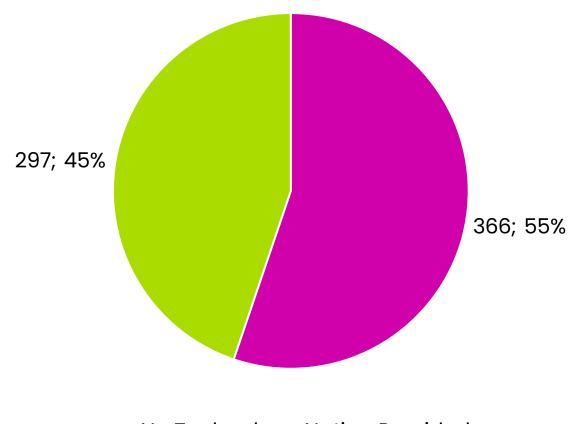
- Notice
- Consent
- Vetting

# School Technology Behaviors

- Most schools NOT providing:
  - Notice,
  - Consent, or
  - Vetting

#### **Notice**

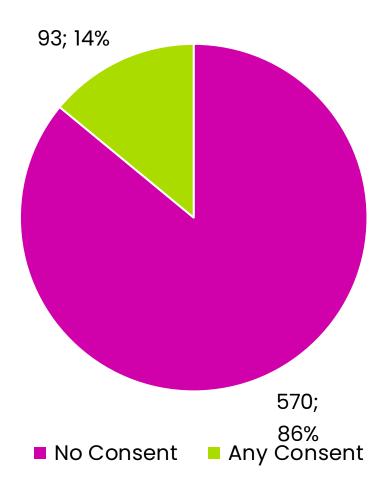
#### Technology Notice Provided by School



Technology Notice Provided

#### Consent

#### Tech Consent Practices in US Schools



- Some schools overuse COPPA ability to consent on behalf of students:
  - ISL occasionally found school-consented-to technology lists containing in at least one case hundreds of websites/apps.
  - The lists included "off the shelf" technologies that students provision and use independently of the school (or don't require a login at all).
  - ISL estimates that of all the technologies required or recommended by schools, only 19.3% of them are licensed by the school/LEA, and 80.7% are off the shelf technologies.

#### Children's Online Privacy Protection Act (COPPA)

Dear Parents/Guardians,

If you have a school-aged child(ren) 13 years old or younger, Public Schools would like to share some important information, especially as we reopen schools using a virtual learning format for the 2020-2021 school year.

Public Schools provides your child(ren) with the most effective web-based tools and applications for learning and uses several computer software applications and web-based services, operated by third parties.

uses Google Apps for Education and other web-based resources (i.e., Canvas, Zoom, and Flipgrid) for students. For our students to use these programs and services, certain personal identifying information -- generally the student's name and email address -- must be provided to the website operator.

Under federal law, entitled the <u>Children's Online Privacy Protection Act (COPPA</u>), these websites must provide parental notification and obtain parental consent before collecting personal information from children under the age of 13. However, the law permits school divisions to consent to the collection of personal information on behalf of all its students, thereby eliminating the need for individual parental consent given directly to the website operator. A list of the possible sites to be used in our classrooms, with links to their privacy policies and terms of services, can be seen below.

If you have any questions, please contact your child(ren)'s principal. As always, thank you for your continued support of your student's success.

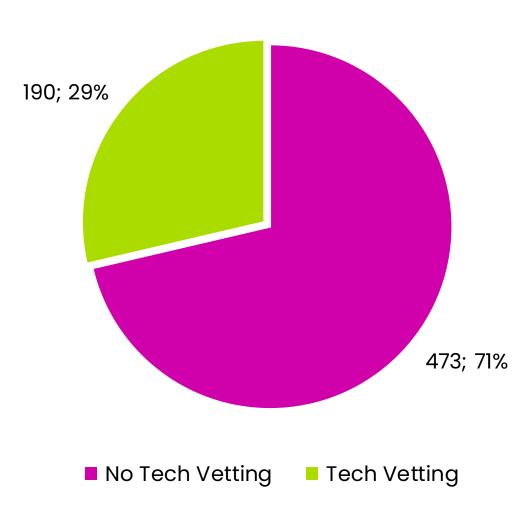
#### Here is a list of COPPA information sites.

COPPA Sites : Sheet1	mapo	
Mobymax	https://www.mobymax.com/	
Moma Art Lab	https://www.moma.org	
Moodle	https://moodle.org/	
Mr. Nussbaum	https://mrnussbaum.com/	
Mrs. Lodge's Library	http://www.mrs-lodges-library.com/	
MSNBC	https://www.msnbc.com/	
MSTAR/ESTAR	https://estarmstar.org/	
Multiplication.com	https://www.multiplication.com/	
Music Dictionary	https://www.classicsforkids.com/music/musical_dictionary.php	
Music First	https://www.musicfirst.com/	

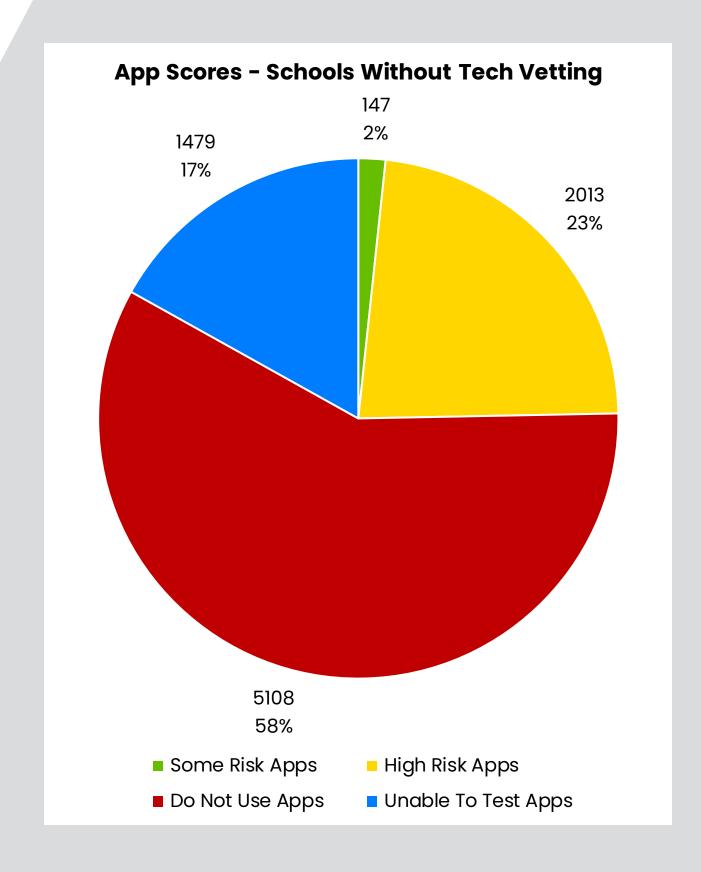
Example of LEA consenting on behalf of student for off the shelf technologies.

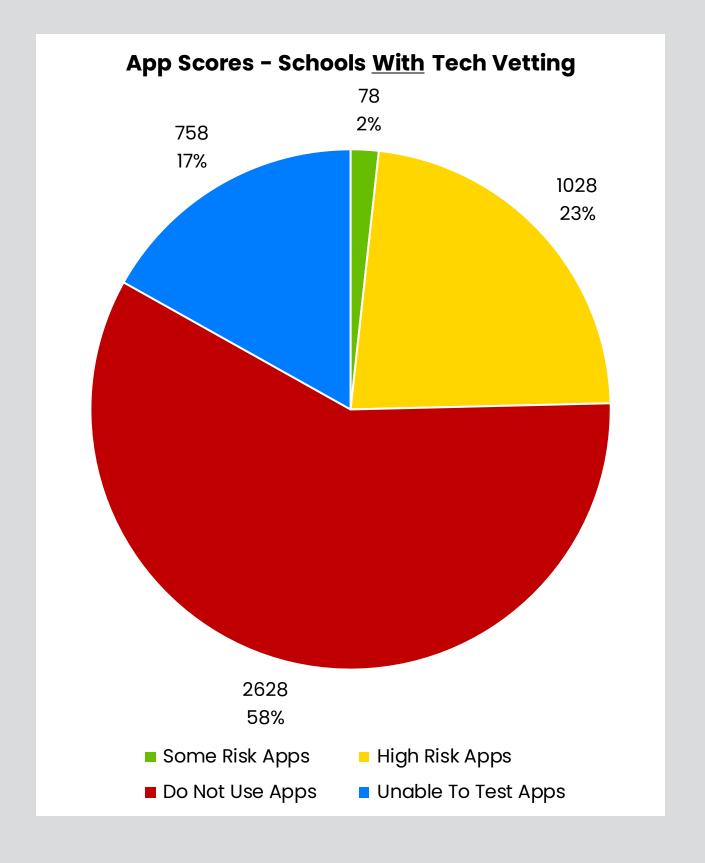
#### Vetting

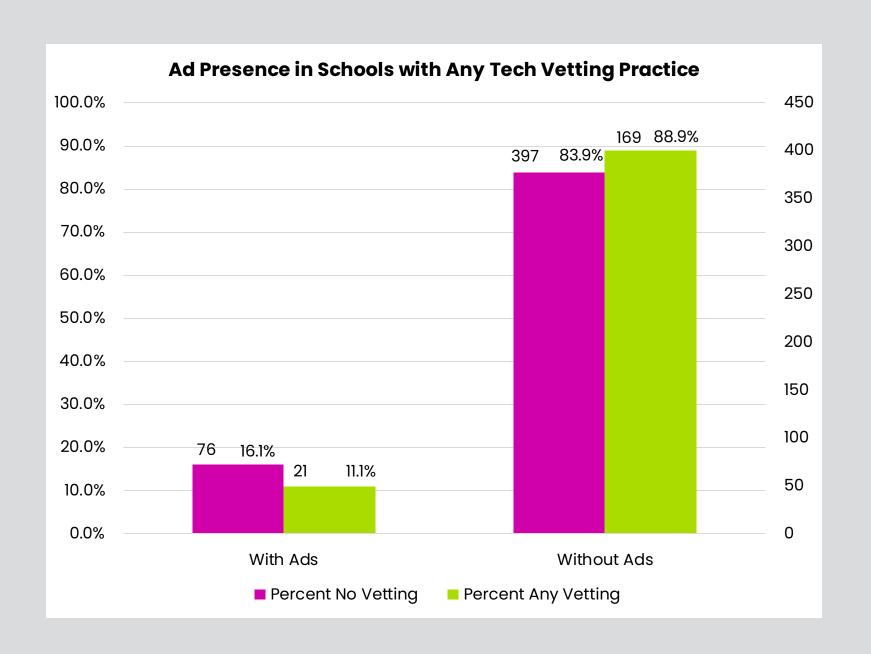
#### **Technology Vetting by Schools**

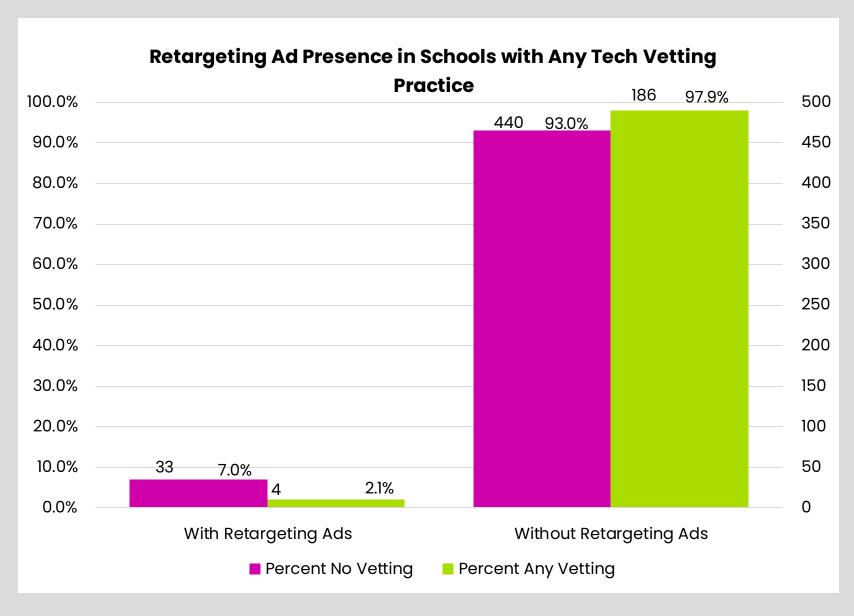


- No difference in ISL Safety Scores between schools that have systemic vetting of technology and schools that don't.
- Somewhat reduced presence of ads.
- Schools with systemic vetting recommend/require 27.6% more technologies to students.









### Certifications & Promises

- Certifications
  - COPPA Safe Harbor Certification\*
  - Proprietary Certifications
- Promises
  - Student Privacy Pledge 2020\* (Future of Privacy Forum et al)
  - Data Privacy Agreements\* Student Data Privacy Consortium

\* Legally binding/enforceable

# Apps with Certifications & Promises Analysis

- School Utility Apps (part of Community Engagement Platforms) are extremely unsafe and should not be certified or signing promises until they're made safer.
- We excluded these apps from the analysis because of their distortive effect.
- Listed in Appendices B and C in the report.

### Apps with Certifications & Promises Analysis [excluding CEP apps]

The set of apps with any kind of certification or promise was safer than apps without.

ALL NON-CEP APPS	# Apps	Do Not Use	High Risk	Some Risk	Unable to Test	Ads	Retarge ting Ads
ISL Benchmark	1298	54.6%	15.1%	3.9%	26.5%	15.2%	8.9%
Any Certification or Promise	431	51.5%	15.6%	3.0%	29.9%	7.9%	2.0%
No Certifications or Promises	867	56.1%	14.9%	4.3%	24.8%	18.6%	12.1%

# COPPA Safe Harbor Certified Apps

- COPPA Safe Harbor certified apps had no retargeting [aka behavioral] ads, but performed worse on ISL Safety Score and presence of digital ads compared to both:
  - The overall set of apps, and
  - The set of apps with NO certifications or promises.

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No Certifications or Promises	867	56.1%	14.9%	4.3%	24.8%	18.6%	12.1%
CERTIFICATIONS							
All Certifications	93	63.4%	9.7%	0.0%	26.9%	16.2%	0.0%
ALL COPPA Safe Harbor Certifications	61	73.8%	9.8%	0.0%	16.4%	21.6%	0.0%
iKeepSafe	24	79.2%	0.0%	0.0%	20.8%	10.5%	0.0%
KidSafe	25	72.0%	16.0%	0.0%	12.0%	18.2%	0.0%
Privo	10	60.0%	20.0%	0.0%	20.0%	50.0%	0.0%
Proprietary							
1EdTech	40	40.0%	12.5%	0.0%	47.5%	0.0%	0.0%

# Certified Apps

#### IEdTech, a proprietary privacy certification, resulted in the best safety metrics.

ALL NON-CEP APPS	# Apps	Do Not Use	High Risk	Some Risk	Unable to Test	Ads	Retargeting Ads
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KidSafe	25	72.0%	16.0%	0.0%	12.0%	18.2%	0.0%
Privo	10	60.0%	20.0%	0.0%	20.0%	50.0%	0.0%
Proprietary							
1EdTech	40	40.0%	12.5%	0.0%	47.5%	0.0%	0.0%

#### Promises

- Promises performed better than certified apps on presence of digital ads and ISL Safety Score.
  - But worse on retargeting ads.

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CERTIFICATIONS							
All Certifications	93	63.4%	9.7%	0.0%	26.9%	16.2%	0.0%
PROMISES							
Student Privacy Pledge	158	38.6%	19.0%	3.8%	38.6%	2.1%	2.1%
SDPC	364	53.9%	16.2%	1.9%	28.2%	8.0%	2.3%
SELF-ASSERTED COPPA COMPLIANCE							
Self-Asserted COPPA Compliance Only	239	55.7%	13.8%	1.7%	28.9%	11.2%	7.1%

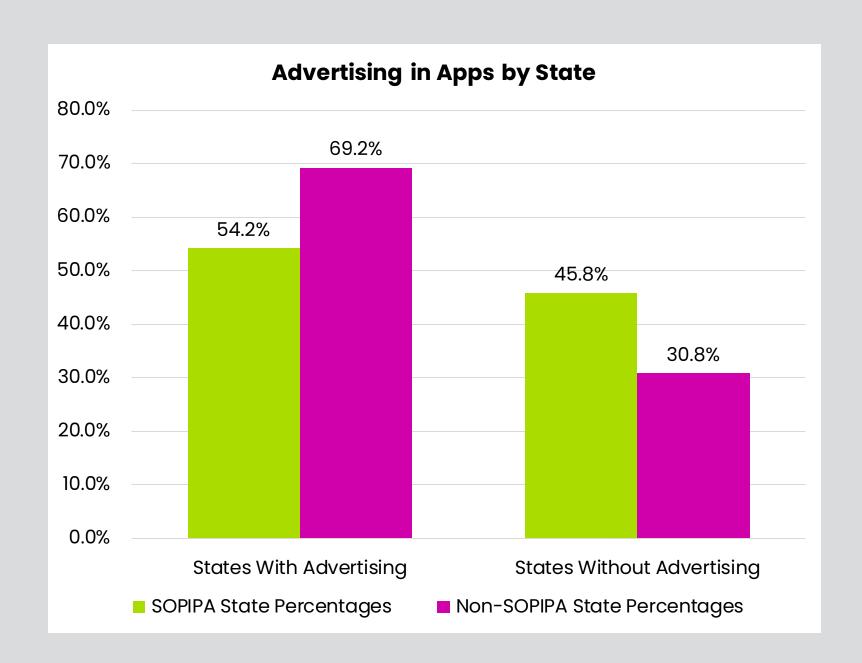
# Self-asserted COPPA Compliance

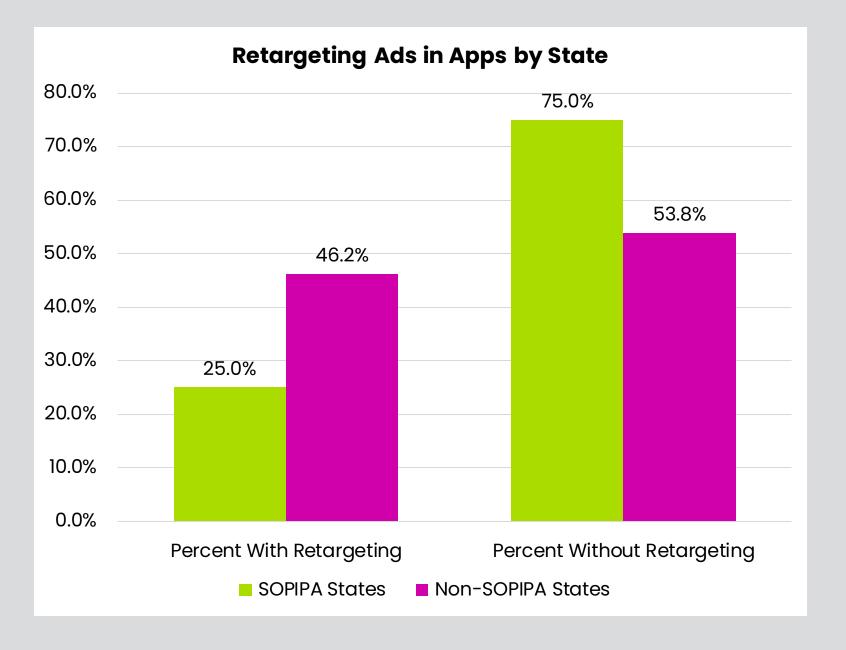
- Surprisingly, apps with selfasserted COPPA compliance were better than apps with no certification or promise.
- And better than total sample for ads and retargeting ads

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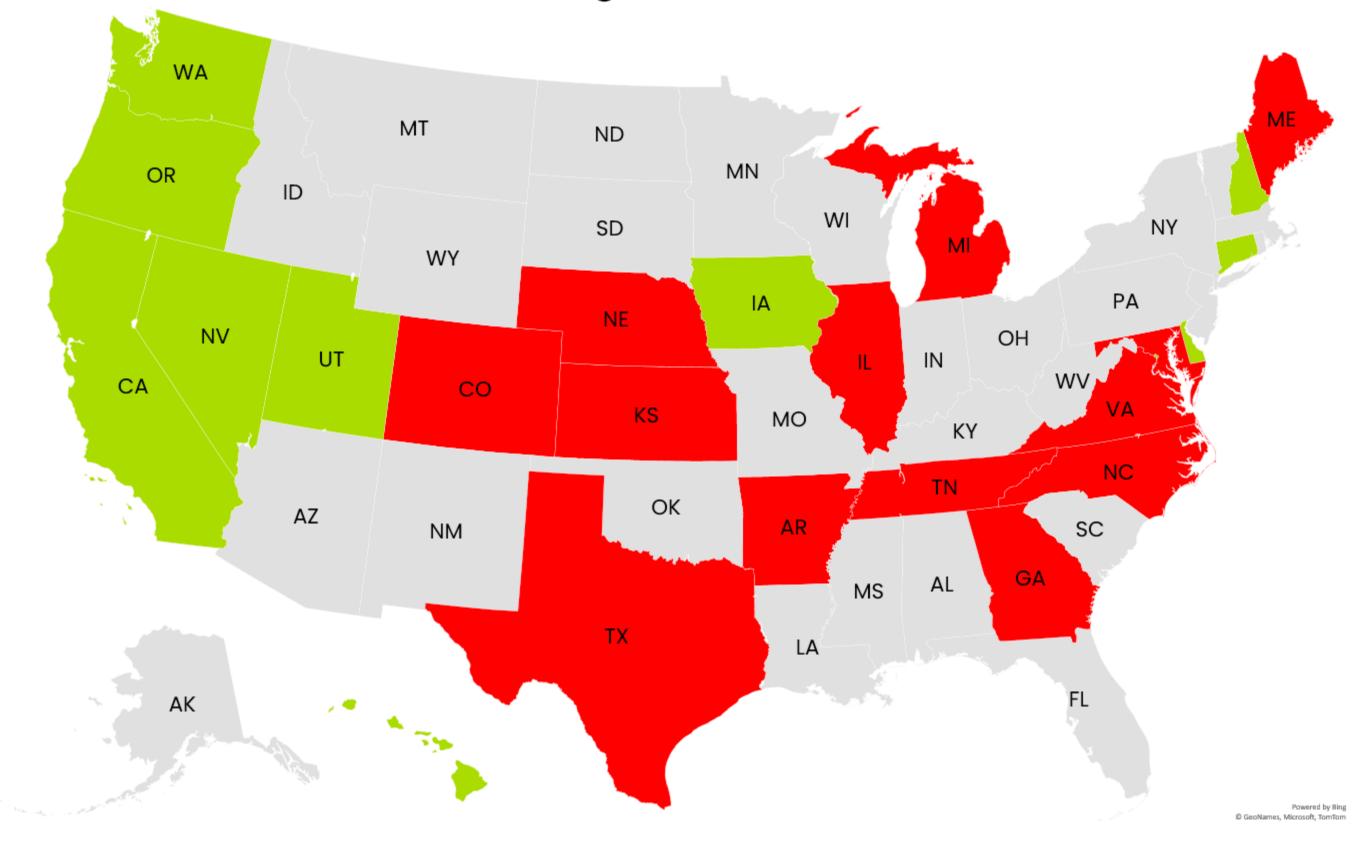
#### SOPIPA

- States with SOPIPA-like laws saw improvement—but not complete elimination—of retargeting/behavioral ads.
  - Caveat: this is anecdotal/informational only, as our sample was not designed to measure this.

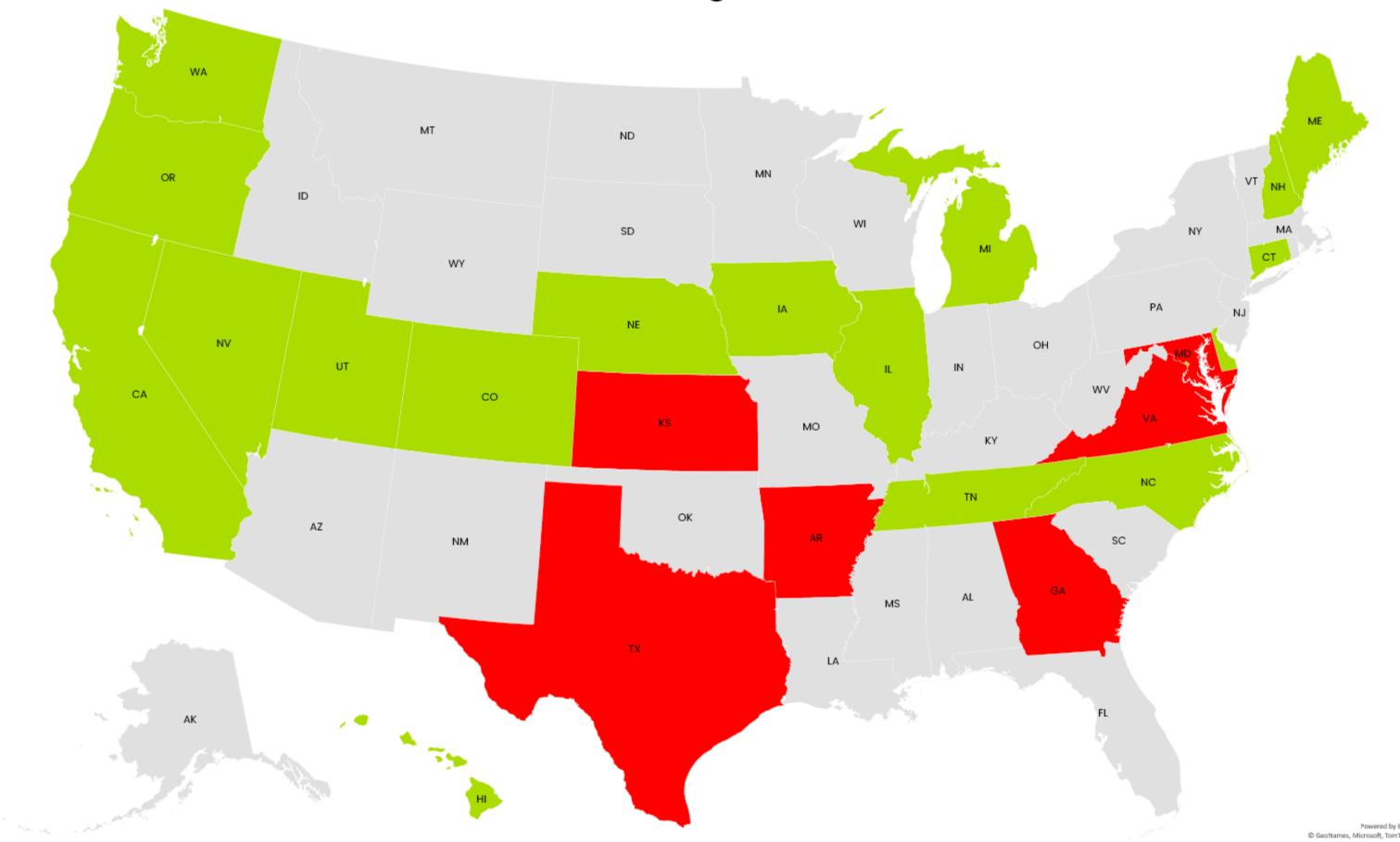




### Advertising in SOPIPA States - Observed [red] and Not Observed [green]



#### Retargeting Advertising in SOPIPA States - Observed [red] and Not Observed [green]



# US K12 EdTech Benchmark Findings Report 3: Key Findings Pub: Feb 2024

### Key Research Questions

What demographic patterns were observed?

## Leliverables

Findings Report 3: Demographic Analysis

### Findings Report 4

- Demographic analysis of Tech Safety Topics:
  - School App Portfolio Safety
  - School Website Safety
  - School Tech Practices
- Analysis across:
  - School type (Elem, Middle, High, Private)
  - School locale,
  - Income level,
  - School Majority Race, and
  - School size (# students).
- School demographic data from <u>National</u> <u>Center for Education Statistics</u>

#### Metrics

- School App Portfolio Safety
  - Average number of recommended/required apps
  - Average percentage of Very High Risk Apps
  - Average percentage of apps with ads
  - Average percentage of apps with behavioral ads.
- School Website Safety
  - Percentage of websites with ads.
  - Percentage of websites with trackers
  - Percentage of website with advertising related trackers

# Metrics (con'td)

- School Technology Practices
  - Percentage of schools providing technology notice
  - Percentage of schools allowing consent to use technology
  - Percentage of schools performing systemic tech vetting
  - Percentage of schools providing personal devices to students

## Key Findings

- Privacy or digital divide?
  - Lowest income segment had lowest percentage of tech vetting, lowest average number of technologies (13.2) and highest percentage of apps with ads and behavioral ads.
  - Similar pattern for American Indian/Alaska Native majority race schools.
    - Intersectionality not significant factor.

METRIC	National Average	\$20K-\$39K	\$40K-\$79K	\$80K-\$119K	\$120K & Above
APP SAFETY					
Avg # Rec/Req Apps	19.9	13.2	18.8	21.3	23.0
Avg # LEA Approved Apps	186.3	N/A	128.6	240.6	192.6
Avg School Composite Score	53.7	37.5	51.3	57.4	61.7
Avg % Very High Risk Apps	69.4%	69.8%	69.7%	69.3%	68.4%
Avg % Ads in Apps	7.8%	9.8%	8.2%	6.7%	9.1%
Avg % Behavioral Ads in Apps	2.7%	9.5%	2.4%	2.6%	2.7%
WEBSITE SAFETY					
Avg # Trackers in School Website	6.5	5.6	6.4	6.6	7.2
% School Websites with Trackers	91.1%	88.9%	91.1%	91.1%	91.8%
Avg # Red Trackers in School Website	1.5	1.7	1.4	1.6	1.7
% School Websites with Red Trackers	79.3%	83.3%	77.7%	80.6%	83.6%
% School Websites with Ads	20.3%	16.7%	22.3%	20.9%	8.2%
SCHOOL TECHNOLOGY PRACTICES					
% Schools Providing Notice	44.8%	27.8%	40.1%	48.0%	65.6%
% of Schools Allowing Consent	14.0%	11.1%	15.6%	9.8%	21.3%
% of Schools Vetting Technology	28.7%	0.0%	22.0%	32.9%	60.6%
% of LEAs Providing Devices	77.8%	50.0%	80.3%	78.9%	73.8%

#### Metrics by School Income

(n=663) (n=18) (n=359) (n=225) (n=61) This work is licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License.

#### Metrics by School Majority Race

METRIC	National Average	American Indian/Alaska Native	Asian	Black	Hispanic	Native Hawaiian/ Pacific Islander	Two or More Races	White
APP SAFETY								
Avg # Rec/Req Apps	19.9	13.4	17.0	22.0	20.6	17.3	24.0	19.8
Avg # LEA Approved Apps	186.3	5.0	368.8	171.1	149.7	N/A	560.0	187.3
Avg School Composite Score	53.7	36.4	45.6	59.2	55.6	43.3	64.8	53.7
Avg % Very High Risk Apps	69.4%	72.9%	64.7%	70.0%	67.6%	56.1%	69.8%	69.9%
Avg % Ads in Apps	7.8%	4.6%	4.4%	7.9%	8.0%	3.3%	6.3%	8.0%
Avg % Behavioral Ads in Apps	2.7%	4.3%	2.4%	2.5%	2.9%	3.3%	3.1%	2.6%
WEBSITE SAFETY								
Avg # Trackers in School Website	6.5	3.9	6.5	7.7	7.4	7.8	9.0	6.2
% School Websites with Trackers	91.1%	83.3%	92.9%	100.0%	98.9%	100.0%	100.0%	88.4%
Avg # Red Trackers in School Website	1.5	1.4	1.7	1.7	1.7	1.5	3.0	1.4
% School Websites with Red Trackers	79.3%	83.3%	78.6%	85.7%	88.0%	100.0%	50.0%	76.7%
% School Websites with Ads	20.3%	16.7%	7.1%	33.3%	22.8%	0.0%	0.0%	18.9%
SCHOOL TECHNOLOGY PRACTICES								
% Schools Providing Notice	44.8%	16.7%	42.9%	33.3%	53.3%	0.0%	100.0%	45.6%
% of Schools Allowing Consent	14.0%	0.0%	14.3%	15.9%	16.3%	0.0%	0.0%	13.9%
% of Schools Vetting Technology	28.7%	8.3%	28.6%	20.6%	31.5%	0.0%	50.0%	29.8%
% of LEAs Providing Devices	77.8%	41.7%	85.7%	87.3%	87.0%	75.0%	50.0%	75.8%

(n = 663)

(n = 12)

(n = 14)

(n = 63)

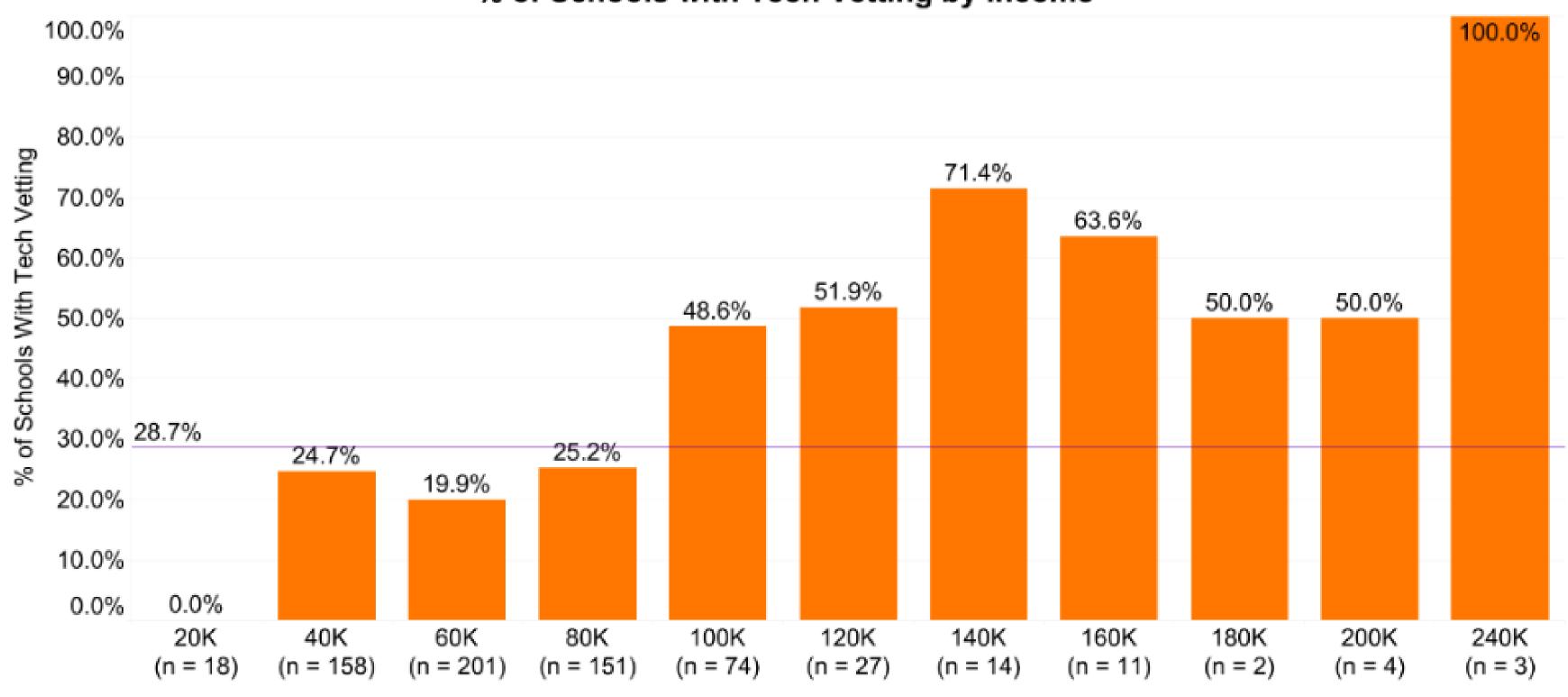
(n = 92)

(n = 4)

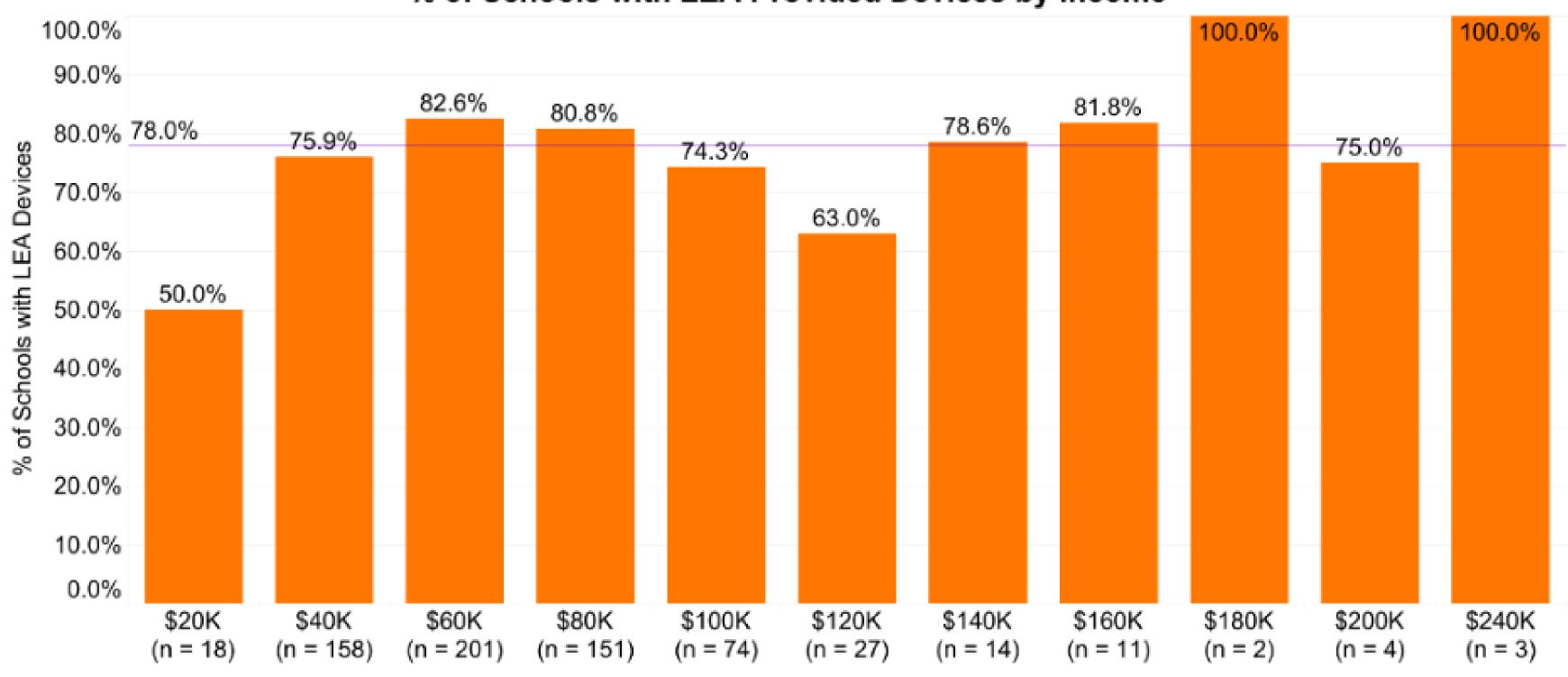
(n = 2)

(n = 476)

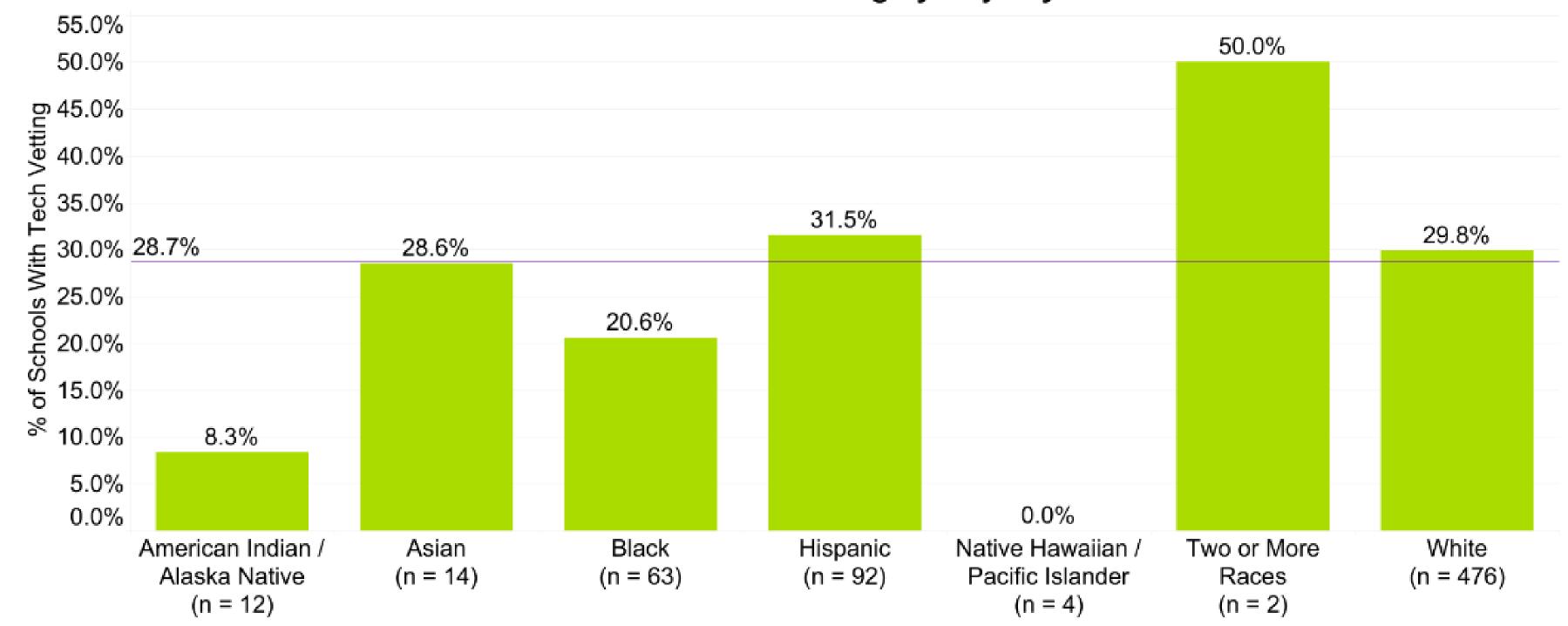
#### % of Schools with Tech Vetting by Income



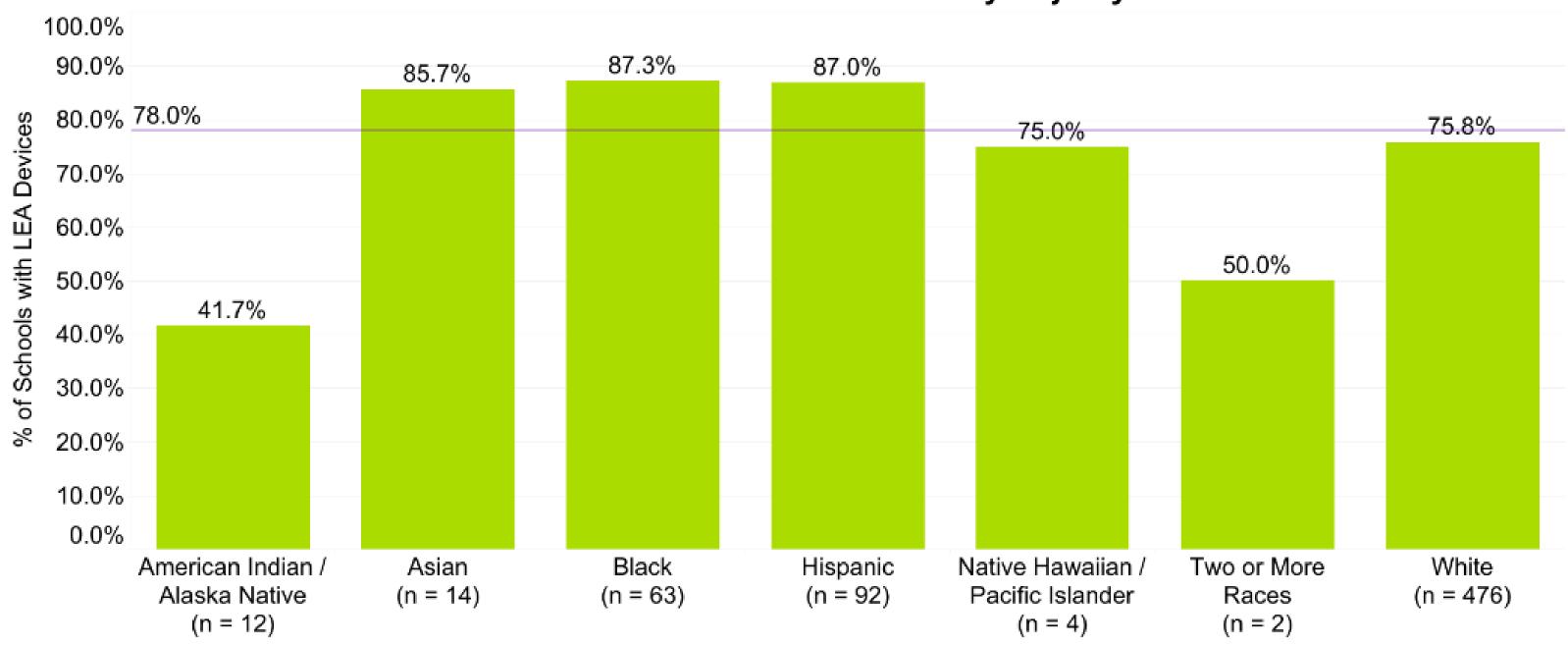
#### % of Schools with LEA Provided Devices by Income



#### % of Schools with Tech Vetting by Majority Race



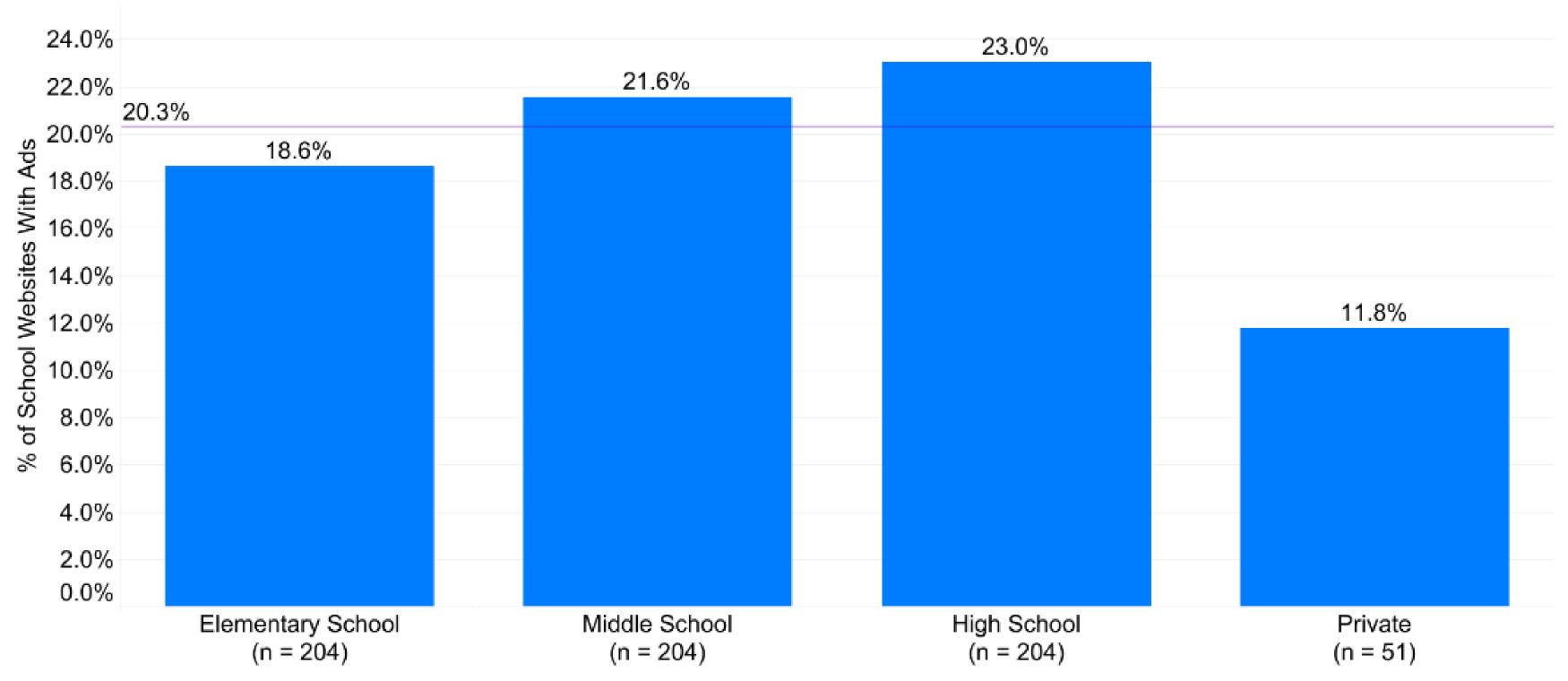
#### % of Schools with LEA Provided Devices by Majority Race



### Key Findings

- 91.1% of school websites contain trackers and 20.3% include advertising.
  - Public schools were nearly twice as likely as private schools to include ads.
  - 79.3% of school websites include ad related trackers.

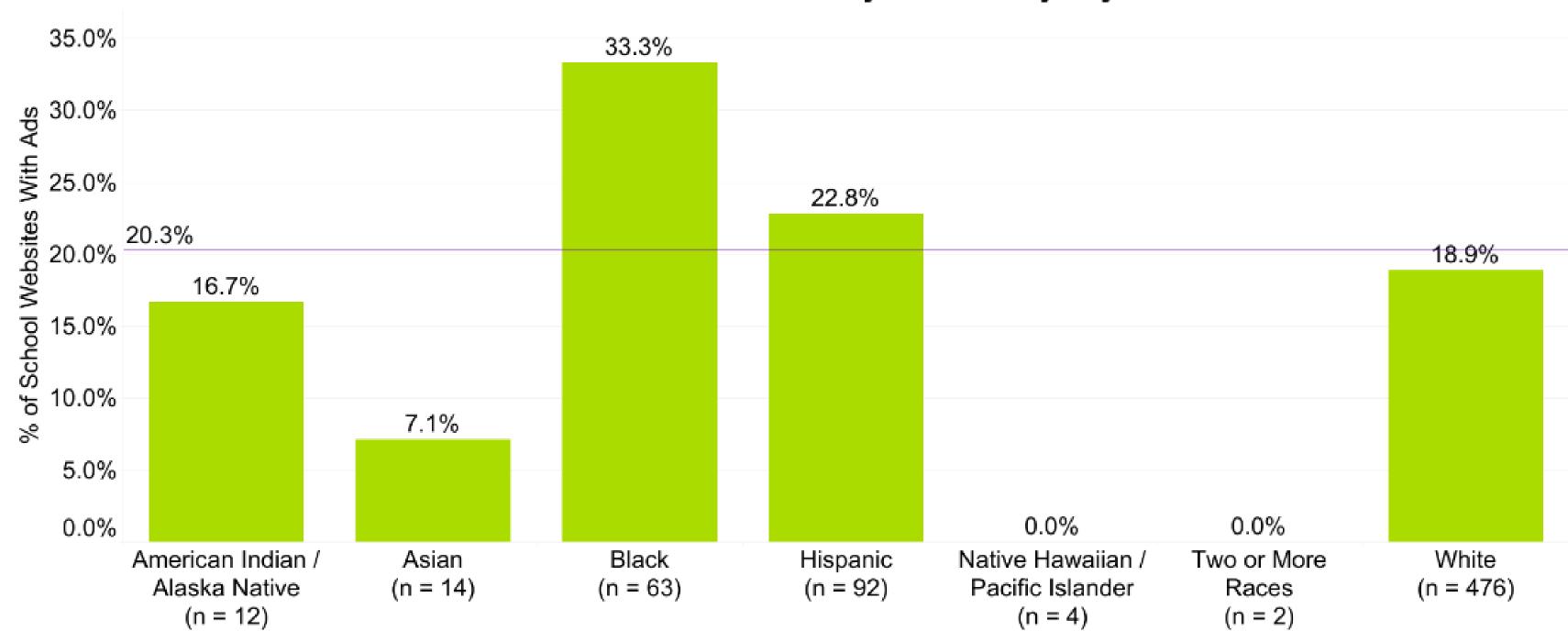
#### % of School Websites with Ads by Grade Level



### Key Findings

- One third of Black majority race school websites had ads.
  - Highest percentate by far.
  - 64.0% higher than national average, and 76.2% higher than white majority race schools.
  - 100% of Black majority race school websites had trackers.
  - One of the highest rate of trackers per site with 7.7 per website.

#### % of School Websites with Ads by School Majority Race



#### Key Findings

- Technology vetting appears to have a positive effect on percentage of apps with ads and behavioral ads in school portfolios.
  - Schools with vetting have a 20.5% reduction in the average percentage of apps with ads, and a 48.4% reduction in the average percentage of apps with behavioral ads.
  - Vetting isn't having an effect on the percentage of Very High Risk Apps.
  - Not always a guarantee
    - \$120K and above schools had high rate of tech vetting and one of the highest rates of apps with ads.

## Other Demographic Summary Data Charts

#### Public **National METRIC Elementary** Middle **Schools** High **Private Average Average APP SAFETY** 19.9 20.7 22.3 19.3 20.4 10.9 Avg # Rec/Req Apps Avg # LEA Approved 186.3 187.3 200.4 173.5 187.5 Apps **Avg School Composite** 53.7 55.5 59.2 51.8 55.5 32.8 Score Avg % Very High Risk 69.4% 68.0% 71.1% 69.3% 68.6% 71.9% Apps 7.8% 8.0% 5.6% Avg % Ads in Apps 8.0% 7.5% 8.5% Avg % Behavioral Ads in 2.7% 2.1% 2.5% 3.2% 3.3% 2.6% Apps **WEBSITE SAFETY** Avg # Trackers in School 6.5 6.6 6.7 6.3 6.8 5.2 Website % School Websites with 91.1% 91.0% 89.2% 92.6% 91.2% 92.2% **Trackers** Avg # Red Trackers in 1.5 1.5 1.5 1.4 1.5 1.9 **School Website** % School Websites with 79.3% 79.0% 78.9% 82.4% 79.4% 78.9% **Red Trackers** % School Websites with 20.3% 21.1% 18.6% 21.6% 23.0% 11.8% Ads **SCHOOL TECHNOLOGY PRACTICES** % Schools Providing 44.8% 47.8% 52.5% 51.5% 39.2% 9.8% **Notice** % of Schools Allowing 14.0% 14.4% 14.2% 15.2% 13.7% 9.8% Consent % of Schools Vetting 28.7% 30.1% 34.4% 31.9% 3.9% 26.0% **Technology** % of LEAs Providing 77.8% 78.6% 70.1% 83.3% 82.4% 70.6% **Devices** (n = 663)(n = 612)(n = 204)(n = 204)(n = 204)(n = 51)

#### Metrics by School Type

#### **National METRIC** Rural Town Suburb City Average **APP SAFETY** 19.9 19.2 17.8 21.7 20 Avg # Rec/Req Apps Avg # LEA Approved Apps 186.3 246.6 116.7 66.9 191.6 **Avg School Composite Score** 53.7 51.4 45.9 58.9 54.8 Avg % Very High Risk Apps 69.4% 68.9% 68.0% 69.4% 70.5% Avg % Ads in Apps 7.8% 9.0% 7.3% 8.1% 6.7% Avg % Behavioral Ads in 2.2% 2.2% 2.7% 2.7% 3.6% Apps WEBSITE SAFETY Avg # Trackers in School 6.5 5.6 5.4 6.8 7.4 Website % School Websites with 91.1% 85.5% 86.0% 94.0% 95.2% **Trackers** Avg # Red Trackers in School 1.5 1.3 1.2 1.5 1.8 **Website** % School Websites with Red 79.3% 75.0% 81.5% 85.6% 71.7% **Trackers** 20.3% 17.6% 12.0% 22.2% 25.0% % School Websites with Ads SCHOOL TECHNOLOGY PRACTICES % Schools Providing Notice 44.8% 40.3% 35.0% 56.0% 41.0% % of Schools Allowing 14.0% 15.1% 9.0% 16.0% 13.9% Consent % of Schools Vetting 28.7% 19.5% 38.4% 31.9% 16.0% **Technology**

76.3%

(n = 159)

% of LEAs Providing Devices

77.8%

(n = 663)

Metrics by School Locale

75.0%

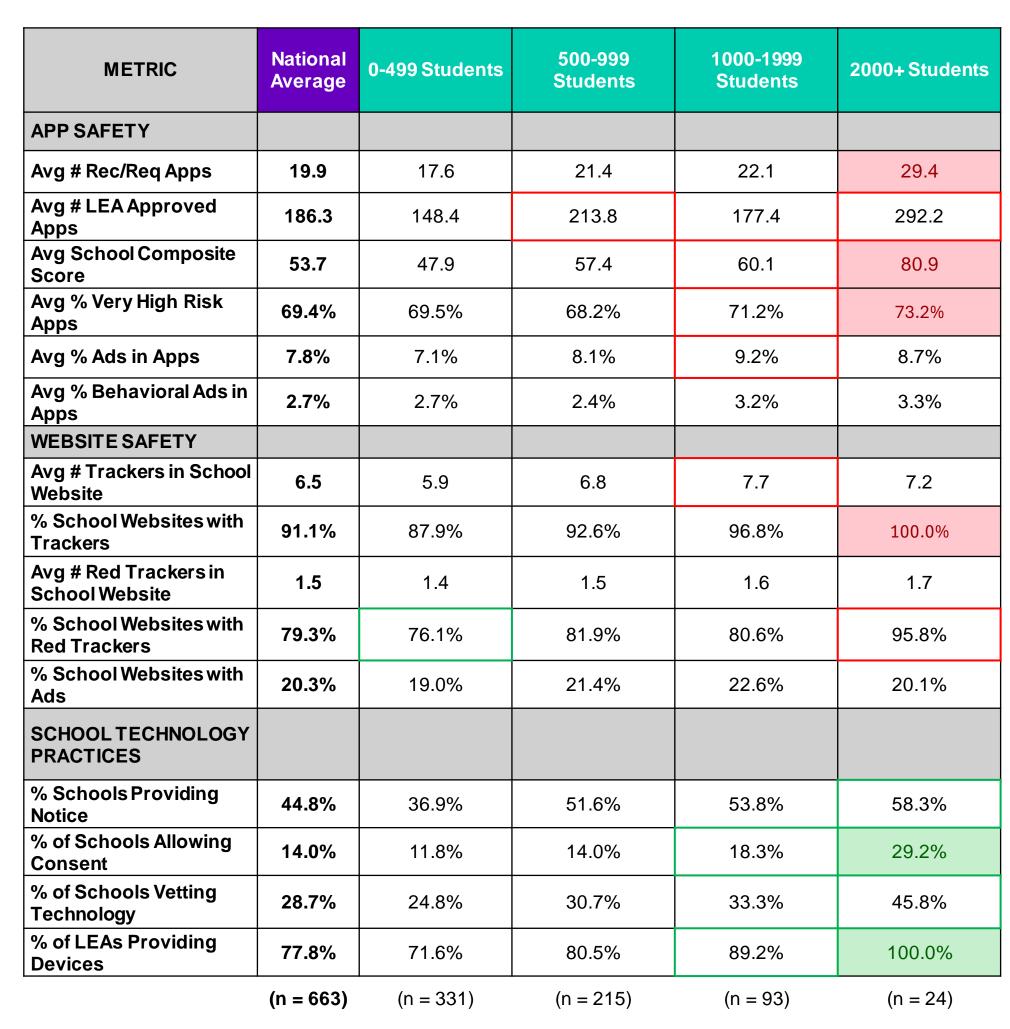
(n = 100)

73.4%

(n = 216)

85.1%

(n = 188)



## Metrics by School Size

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## Recommendations

Pub: Feb 2024

# Tech Safety Practices for Schools

- Recommend/require no more technology than the school can reasonably manage and actively monitor.
  - Elementary schools: less is more.
- Professional software product / vendor management
  - At least one dedicated, full-time software procurement specialist.
  - Tech vetting and oversight practices.
  - Tech vendor management.
- Perform systemic vetting of all technologies recommended or required for students.
  - Select only COPPA Safe Harbor Certified technologies.

## Tech Safety Practices for Schools (con'td)

- Data Privacy agreements for all licensed technology
  - Student Data Privacy Consortium has templates.
- Annual audit of technology looking "under the hood".
  - Websites: The Markup's Blacklight, EFF Privacy Badger
  - Apps: ISL's App Microscope

## Tech Safety Practices for Schools (cont'd)

- Closely scrutinize or stop using white-labeled Community Engagement Tools (aka "school utility apps").
- Low-income schools and American Indian/Alaska Native need more investigation to ascertain digital divide.
  - More tech support appears to be needed for these demographics.

## Tech Notices for Schools

- Publish easy to find, complete technology lists.
  - Make clear required vs. recommended technologies.
  - Notice should be a byproduct of vendor management processes.
  - Make clear distinctions between licensed vs. off the shelf technologies.
    - And be clear about which you're consenting for on behalf of students.
    - Can't consent for off the shelf tech with no relationship to the school. <a href="https://www.ftc.gov/business-guidance/resources/complying-coppa-frequently-asked-questions#N.%20COPPA%20AND%20SCHOOLS">https://www.ftc.gov/business-guidance/resources/complying-coppa-frequently-asked-questions#N.%20COPPA%20AND%20SCHOOLS</a> Section N. COPPA AND SCHOOLS

#### Web Safety for Schools

- Remove digital advertising on all school websites.
- Remove all advertising related trackers and scripts on all school websites.
- Minimize third-party resources on school websites.

