



CAPITAL SCHOOL DISTRICT

Strategic Technology Plan Update



2016 – 2017 Technology Priorities:

- *Consistent best practices within instructional technology use (BRINC)*
- *Review of district and building technology budgets*
- *Identify aging equipment for instructional spaces, teachers, and staff*
- *Increase bandwidth within Schools*
- *Review technology staffing*
- *Evaluate communication systems, such as the website and automated calling*

ASSESSMENT OF TECHNOLOGY SYSTEMS

- Security Cameras
 - Phone Systems
 - Wireless Infrastructure
 - Key Card Access
 - Visitor Sign-in
 - Servers
 - Interactive Whiteboards
 - Bandwidth
 - Student and Staff Devices
- Outdoor/Indoor Signage

Capital School District

Technology Systems Summary

0

Needs to be addressed as soon as possible or does not meet requirement

1

Exposes the District to unacceptable risk or negatively impacts instruction

2

Functioning currently but funding needs to be secured

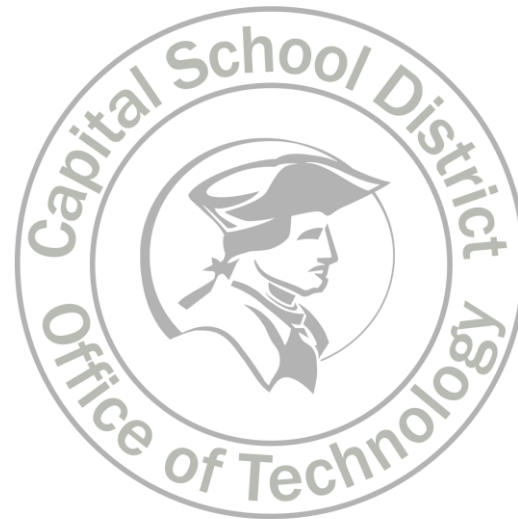
3

Technology is current and should not need to be replaced in the immediate future

Capital School District

Technology Systems Summary

Elementary Schools	Middle Schools	High Schools	KCCS	KCSILC	District Office
1.4	1.6	2.4	1.7	1.6	2.1



Security Camera Systems Overview

Overall System Score

1.4

Elementary

0.9

Middle

1.5

High

3

Factors that were considered in the scores:

1. Coverage of Exterior Entrances
2. Coverage of Key Public areas in the building
3. Quality of Coverage and Displayed Images
4. Ability to view past recordings of video
5. Age of DVR Equipment
6. Age of Camera Equipment
7. Upgrade potential vs. complete replacement

District Phone Systems Overview

Overall System Score

1.7

Elementary

1.6

Middle

1.5

High

3

Factors that were considered in the scores:

1. Age of the System
2. Age of the Handsets
3. Availability of Parts and Service
4. Ability to directly support the building's phone system
5. Ability to tie in to District Office NEC Digital Phone System
6. Risk to the building of system failure
7. Impact of system downtime

Wireless Network Infrastructure Overview

Overall System Score

2.2

Elementary

2

Middle

3

High

3

Factors that were considered in the scores:

1. Age of the System Controller
2. Age of the Access Points
3. Network Technologies used for throughput and coverage
4. Available Support and Warranty Coverage
5. Available Firmware Update support for controller and access points
6. Network Coverage in Building
7. Network Capacity in Building
8. Network Availability in all Building areas

Keycard System Overview

Overall System Score

0.5

Elementary

0

Middle

0.5

High

2

Factors that were considered in the scores:

1. Availability of Keycard controlled building access
2. Coverage of Exterior Entranceways
3. Availability of Staff to use keycards vs. traditional keys
4. Systems Warranty and Support coverage
5. Risk to District of System Failure
6. Risk to Building of System Failure
7. Integration with existing building access control devices

Visitor Sign In System Overview

Overall System Score

1

Elementary

1

Middle

1

High

1

Factors that were considered in the scores:

1. Availability of historical records access of building visitors
2. Ability to perform basic background checks of all building guests
3. Ability to capture complete information about a visitor vs. just a name.
4. Ease of use for the building
5. Availability of Warranty and Support for an existing digital system
6. Types of Visitor Identification being used in the building
7. Risk to the building associated with the system being used
8. Risk to the District associated with the system being used

Server System Overview

Overall System Score

2.5

Elementary

2.1

Middle

3

High

3

Factors that were considered in the scores:

1. Warranty and Support Coverage
2. Availability of Services in the Building
3. Risk to Building of System Failure
4. Risk to District of System Failure
5. Ability of Infrastructure to meet the needs of the Building
6. Ability of Infrastructure to meet the needs of the District
7. Ability of Infrastructure to meet future needs and expansion

Interactive Whiteboard Overview

Overall System Score

1.2

Elementary

1

Middle

1

High

2

Building	Score	System Information	Notes
BTW	1	SMART Boards Average 6 Years Old	Some rooms in the building have been upgraded more recently based on program needs.
East	1	SMART Boards Average 7 Years Old	Some rooms in the building have been upgraded more recently based on program needs.
Fairview	1	SMART Boards Average 7 Years Old	Some rooms in the building have been upgraded more recently based on program needs.
Hartly	1	SMART Boards Average 7 Years Old	Some rooms in the building have been upgraded more recently based on program needs.
North	1	SMART Boards Average 6 Years Old	Some rooms in the building have been upgraded more recently based on program needs.
South	1	SMART Boards Average 8 Years Old	Instructional impact due to design issues with projector placement and structured wiring
Towne Point	1	SMART Boards Average 6 Years Old	Some rooms in the building have been upgraded more recently based on program needs.
William Henry	1	SMART Boards Average 6 Years Old	Some rooms in the building have been upgraded more recently based on program needs.
Central Middle	1	SMART Boards Average 7 Years Old	Some rooms in the building have been upgraded more recently based on program needs.
Dover High School	2	SMART Boards Average 3 Years Old	Planning needs to allow for addition budget for bulbs and projectors as they reach end of life
KCSILC	1	SMART Boards Average 8 Years Old	Instructional impact due to design issues with projector placement and structured wiring
KCCS	1	SMART Boards Average 6 Years Old	Some rooms in the building have been upgraded more recently based on construction projects.
District Office	2	SMART Boards Average 4 Years Old	Technology should reflect the ideal 21 st Century Classroom, which may require future upgrades

***All SMART Board Systems in the District are without Warranty Coverage**

District Building WAN Bandwidth Overview

Overall System Score

2.9

Elementary

3

Middle

3

High

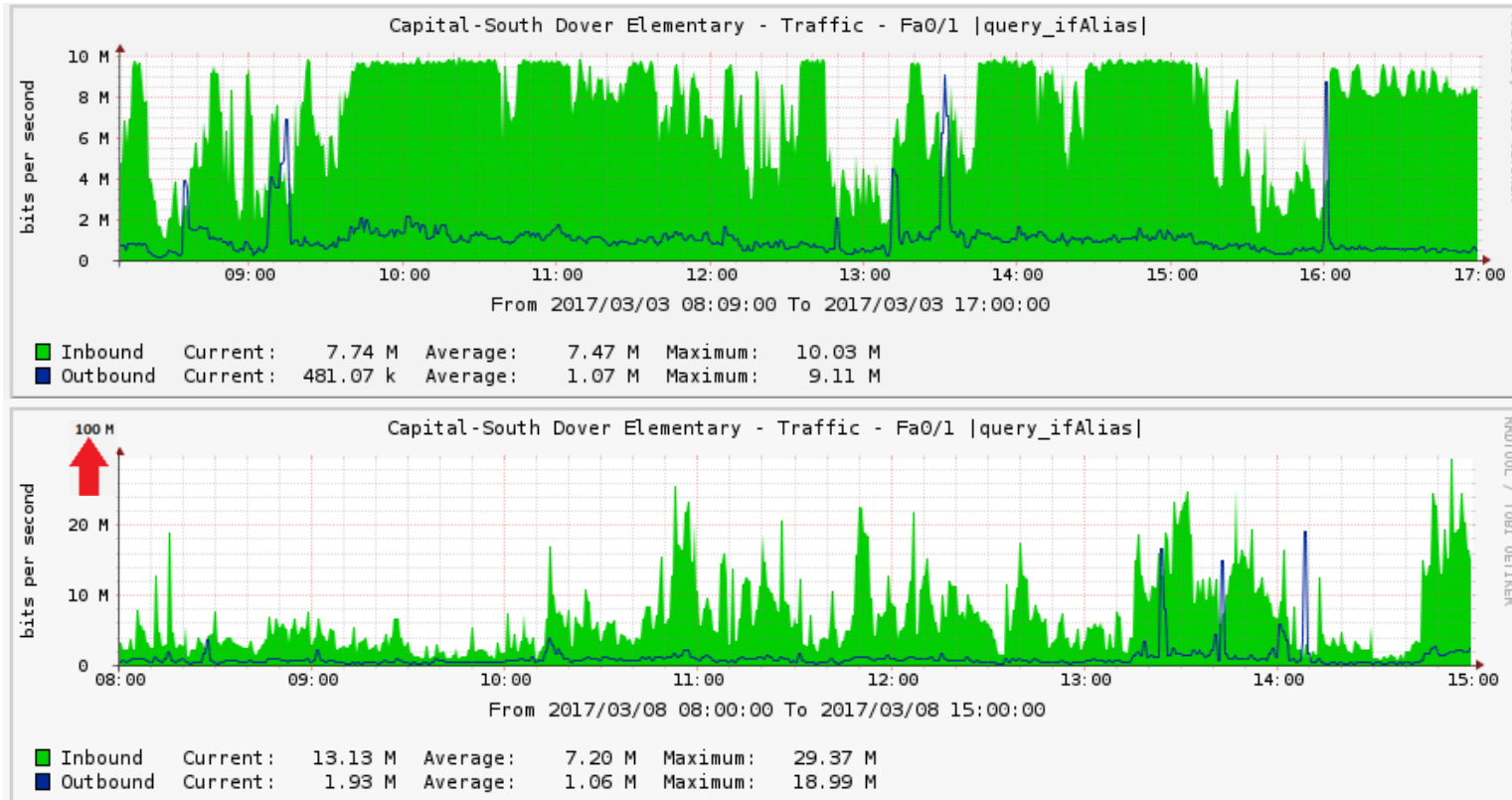
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Building Bandwidth Upgrades Completed:

- **Central Middle School**
 - 100mb to 1000mb Fiber Connection
- **WHMS, BTW, KCCS, KCSILC**
 - 100mb to 1000mb Shared Fiber Connection
- **East Dover Elementary**
 - 10mb to 100mb Verizon TLS Circuit
- **Fairview Elementary**
 - 10mb to 100mb Verizon TLS Circuit
 - Currently on schedule to upgrade with DTI Fiber (1GB) in July 2017
- **Hartly Elementary**
 - 10mb to 100mb Verizon TLS Circuit
- **North Dover Elementary**
 - 10mb to 100mb Verizon TLS Circuit
 - Currently on schedule to upgrade with DTI Fiber (1GB) in July 2017
- **South Dover Elementary**
 - 10mb to 100mb Verizon TLS Circuit
- **Towne Point Elementary**
 - 10mb to 100mb Verizon TLS Circuit

South Dover Elementary School

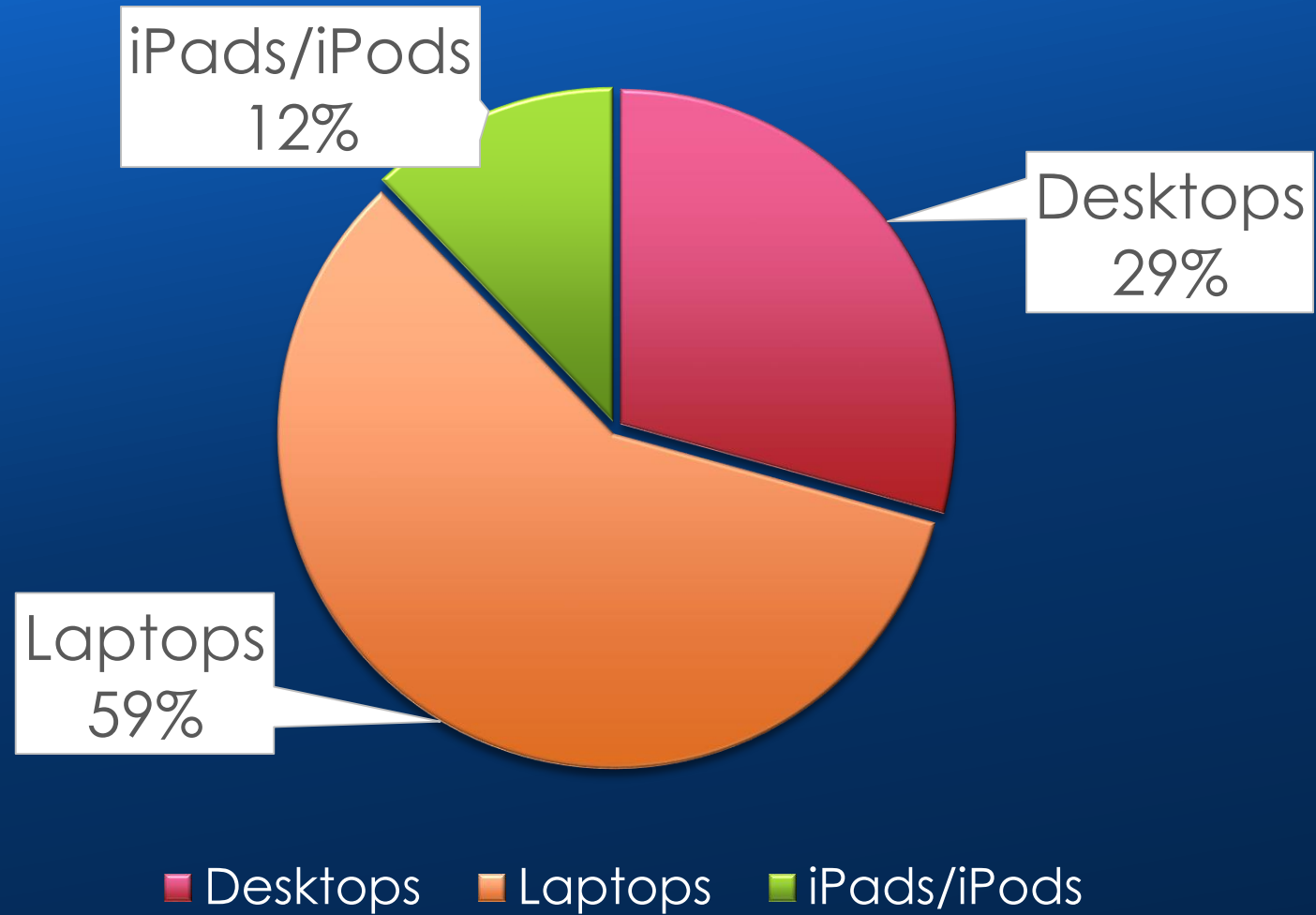
Bandwidth Upgrade



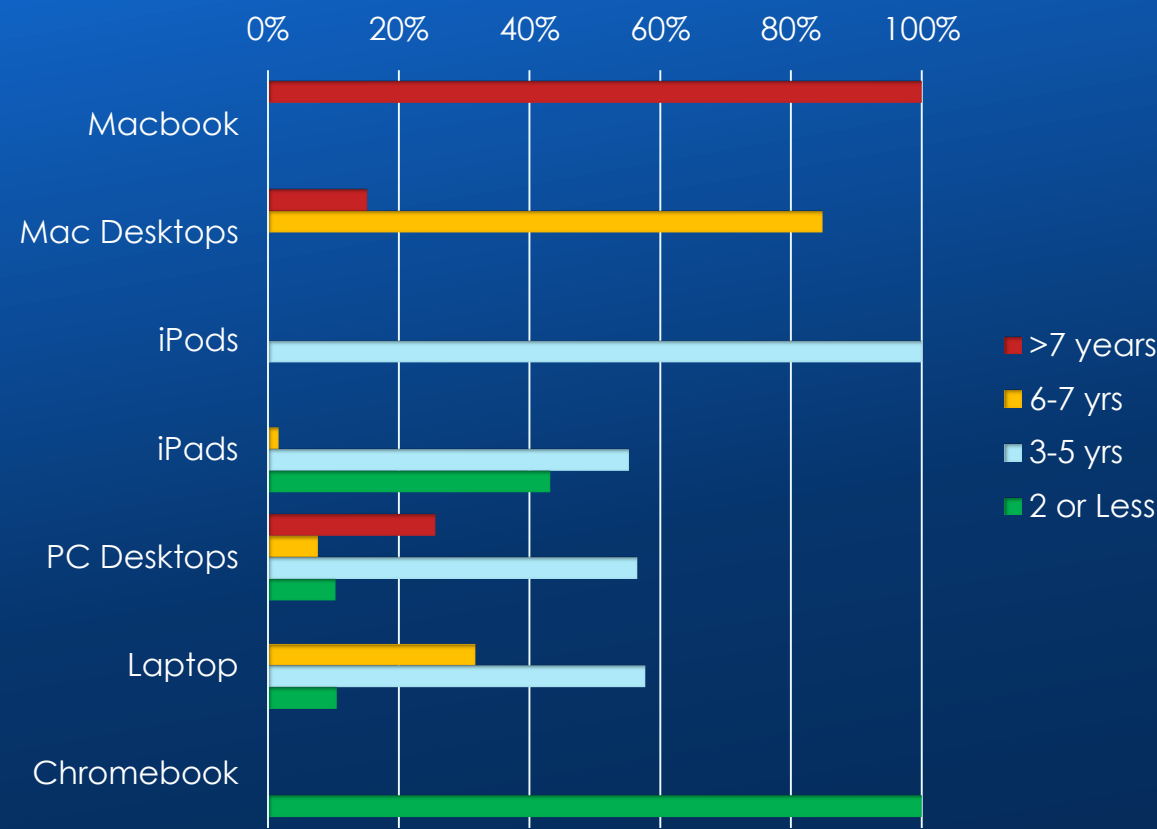
Before Upgrade
Max: 10mbps of 10mbps

After Upgrade
Max: 29.97mbps of 100mbps

District Wide Device Types

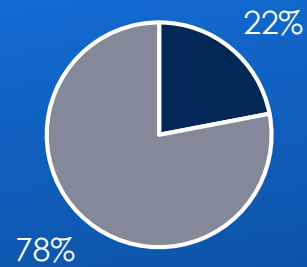


District Wide Device Types by Age

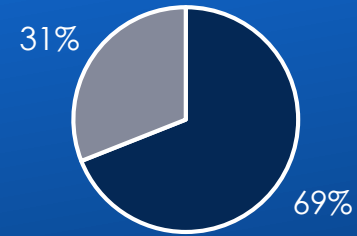


	>7 years	6-7 years	3-5 years	2 years or Less
Macbook	100%	0%	0%	0%
Mac Desktops	15%	85%	0%	0%
iPods	0%	0%	100%	0%
iPads	0%	2%	55%	42%
PC Desktops	26%	8%	56%	10%
Laptop	0%	32%	58%	11%
Chromebook	0%	0%	0%	100%

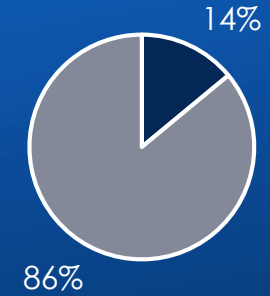
Elementary Schools



Middle Schools



High Schools



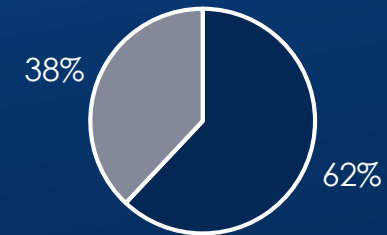
KCCS



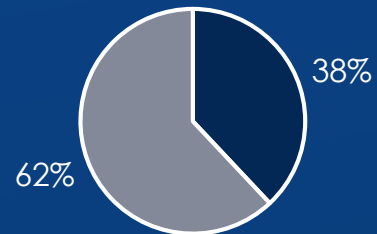
KCSILC



District Office



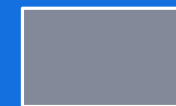
District Wide Summary



Staff Desktops vs. Laptops District Wide

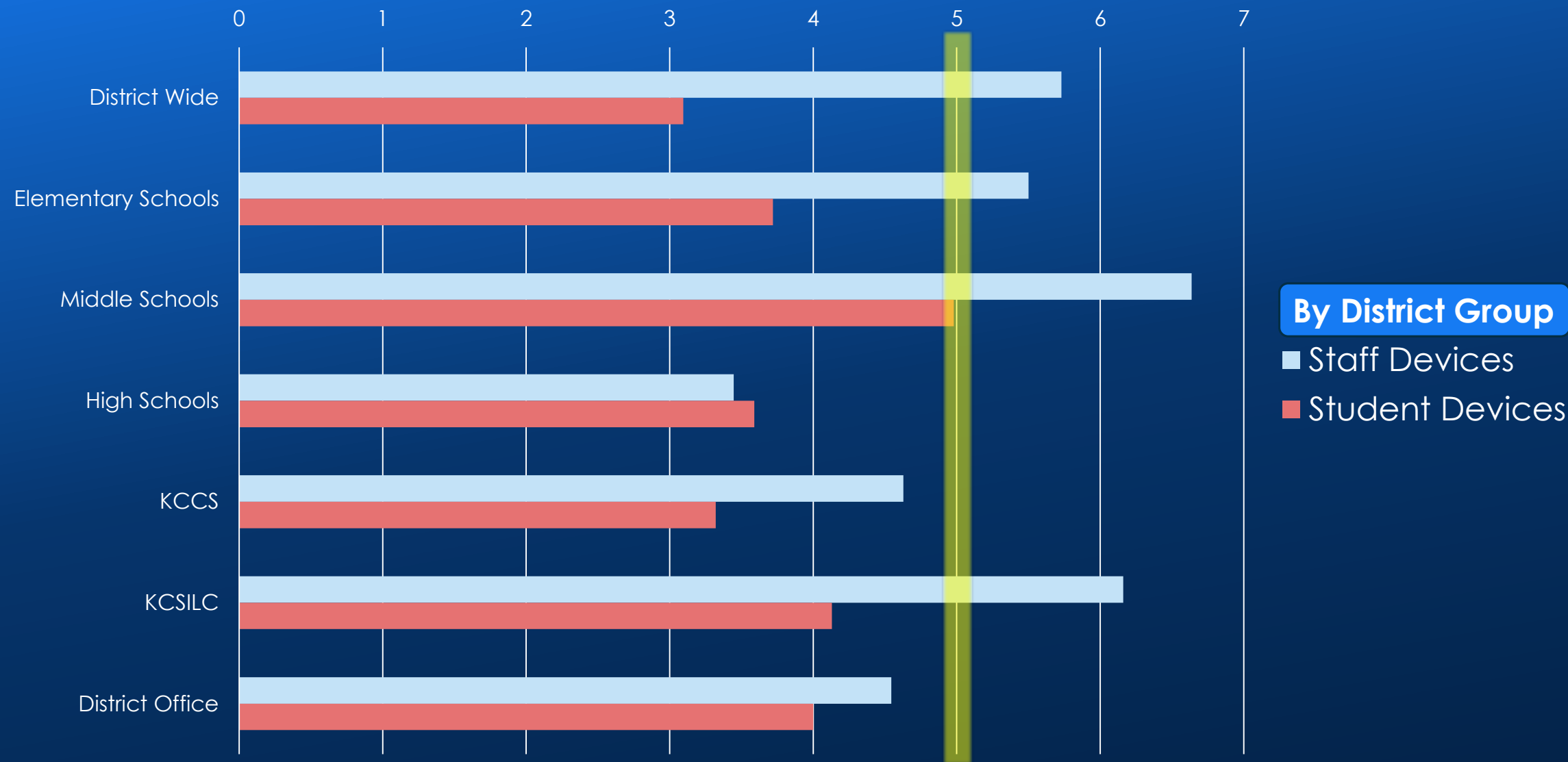


Desktops



Laptops

Average Age of *Staff and Student* Devices (Years)

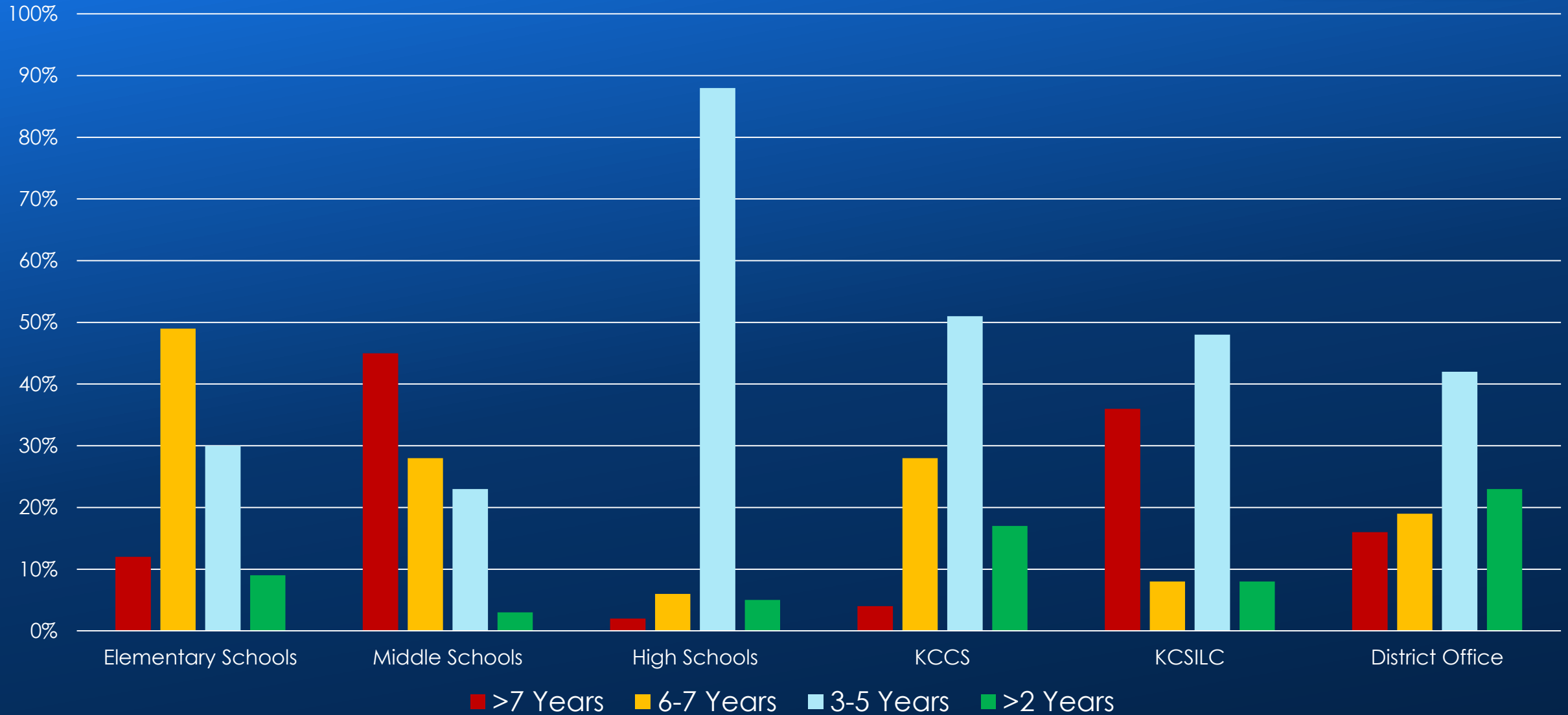


Average PC Warranty Period

Educational excellence today for a changing tomorrow

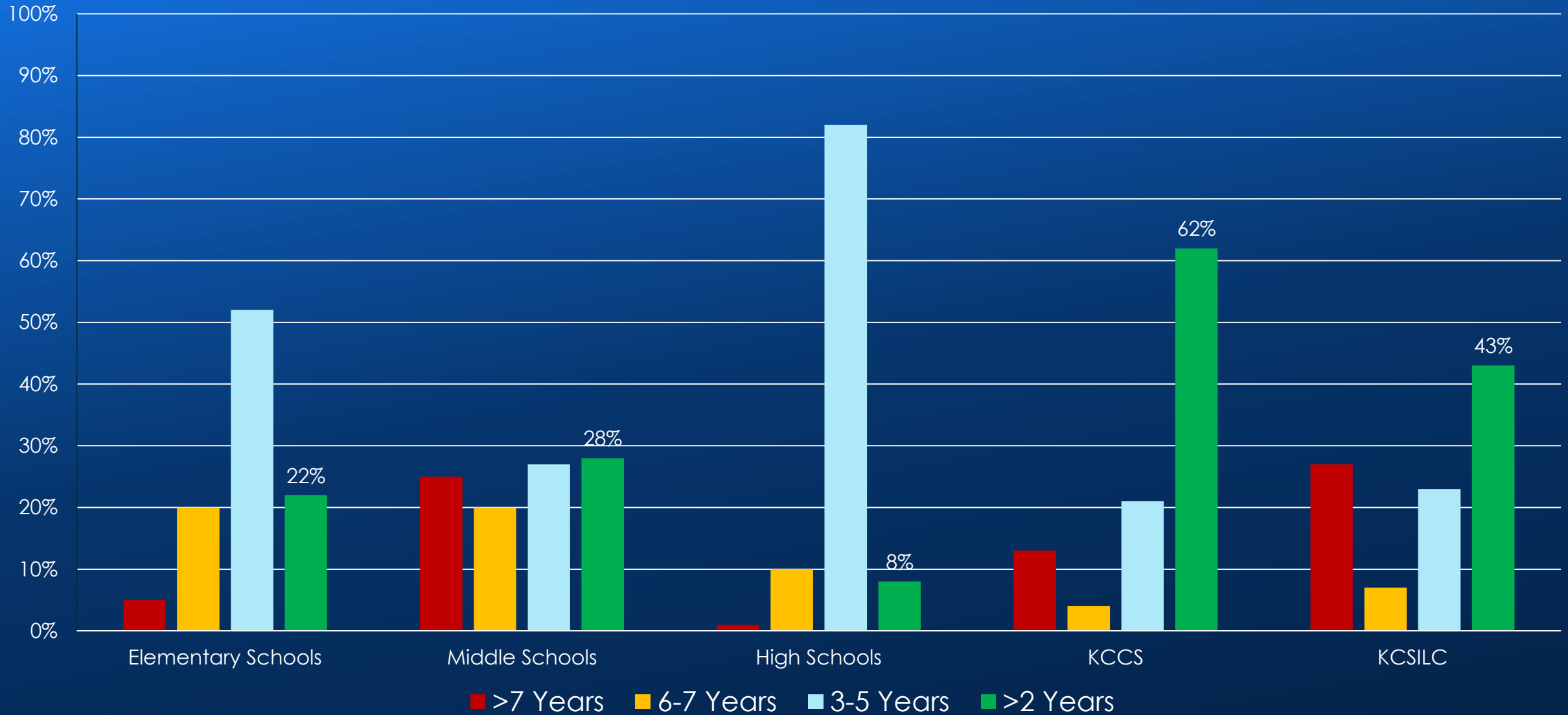
Staff Desktop and Laptop Age Summary

By Group



Student Desktop and Laptop Age Summary

By Group



Capital School District Technology Systems Overview

Internet Bandwidth	Wireless Infrastructure	Telephone System	Security Cameras
2.9	2.2	1.7	1.4

Primary Servers	Keycard Access	Visitor Sign-In
2.5	0.5	1

Overall Score

Student Devices	Staff Devices
	1

Interactive Whiteboards
1.2

Next Steps:

- *Device of Choice Workgroup*
- *Communication Workgroup*
- *Emergency, Outreach, and Attendance Calls Workgroup*