Technology Update

July 16, 2018

Jenny Garris, Director of Technology

Overview

1. Devices
2. Security Cameras
3. Infrastructure
4. Cyber Security
5. Disaster Recovery

Devices

Progress/ Impact

- 96% of students in grades 6-12 opted to receive district devices
  - Successfully administered online testing
  - 4,000 – 5,000 students tested simultaneously
- Offered Chromebooks to grade 6-12 certified staff
  - Allowed teachers to better support students

Devices

Progress/ Impact

- Implemented Hapara (management system) for teachers
  - Helped teachers monitor and focus students on devices
- Increased access to devices in elementary schools
  - Provided Chromebooks in grades 3-5 classrooms at a 1:2 ratio
  - Provided desktop computers to kindergarten classrooms

Devices

Next Steps

- Offer Chromebooks to all certified elementary teachers
- Include 3 year device refresh plan in District Technology Plan
- Explore sustainable devices for grades 1-2

Security cameras

Progress/ Impact

- Improved coverage of all campuses
  - Installed new servers and repaired or replaced existing cameras
  - Ensured all school entrances and front offices covered
  - District Office camera system installed

Security cameras

Progress/ Impact

- Partnered with Security Officers on procedures
  - Clear communication of access and procedures
- Contracted for annual preventative maintenance
  - Protection of investment and added reliability

Security cameras

Next Steps

- Provide training for school administrators
- Include refresh plan to continuously update hardware in District Technology Plan
- Evaluate need for additional cameras

Infrastructure

Progress/ Impact

- Completed refresh of all switches and cables in 20 schools
  - Increased speed and reliability for students and staff
  - Successful online testing
- Completed central data center
  - All Cisco equipment that is current and under support that is the "heart" of the infrastructure for the entire district

Infrastructure

Progress/ Impact

- Implemented tools to monitor network traffic
  - Ability to remove devices that cause issues
  - Proactively make changes to ensure
- Mapped all Wi-Fi access points across the district
  - Ensured coverage of all instructional areas

Infrastructure

Next Steps

- Update switching for remaining 4 sites: CHS, SHHS, CMS and The Center

- Begin planning next 5 year cycle for E-rate funds

Cyber Security

Progress/ Impact

- Implemented secure, complex passwords for all staff
  - Increased security for user accounts
- Adopted SafeSchools platform for training
  - Required password security for all district-wide staff
  - Improved users' knowledge base

Cyber Security

Progress/ Impact

- Increased monitoring capabilities
  - Alerts in place for abnormalities and outages
  - Network team professional development

Cyber Security

Next Steps

- Third party “Gap” assessment
- Expand SafeSchools usage
- Update technology policies and procedures

Disaster Recovery

Progress/ Impact

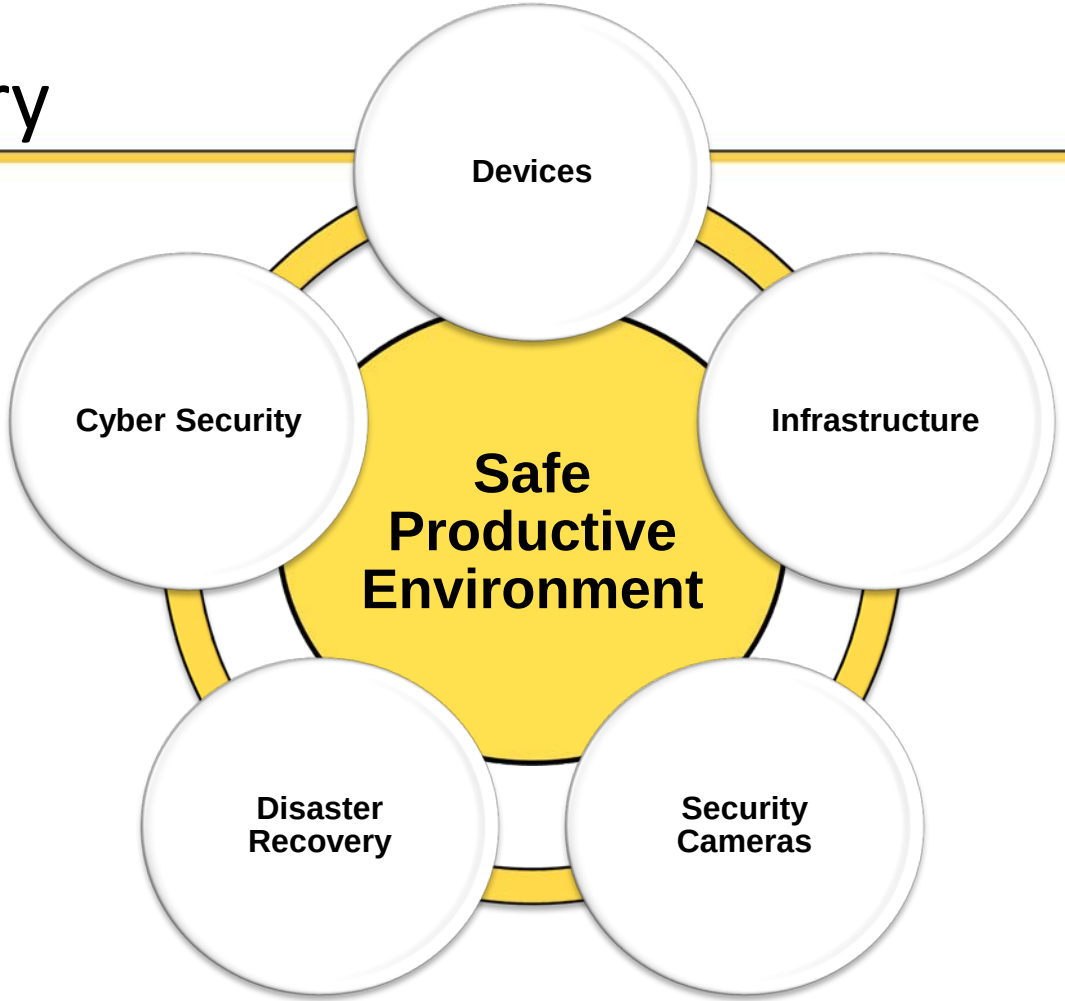
- Fully functioning off-site back up of all systems and data
  - Critical data is not lost if data center is taken down
- Data center “lite” at off-site location
  - Business continuity expected
  - Less interruption of instructional time

Disaster Recovery

Next Steps

- Add secondary internet connection at disaster recovery site
- Utilize disaster recovery site during planned maintenance
- Include written disaster recovery procedures in District Technology Plan

Summary


Devices
Cyber Security
Infrastructure
Safe Productive Environment
Disaster Recovery
Security Cameras

iFive Initiative

Carol Lunsford
Coordinator of Instructional Technology

Profile of the SC Graduate



World Class Knowledge

- Rigorous standards in language arts and math for career and college readiness
- Multiple languages, science, technology, engineering, mathematics (STEM), arts and social sciences

World Class Skills

- Creativity and innovation
- Critical thinking and problem solving
- Collaboration and teamwork
- Communication, information, media and technology
- Knowing how to learn

Life and Career Characteristics

- Integrity
- Self-direction
- Global perspective
- Perseverance
- Work ethic
- Interpersonal skills

Approved by SCASA Superintendents' Roundtable, SC Chamber of Commerce, and State Board of Education.

transformSC
tomorrow won't wait for our students

AN INITIATIVE OF SOUTH CAROLINA COUNCIL ON COMPETITIVENESS

iFive Measuring Success Committee

- Parents
- Teachers
- School Administrators
- Digital Integration Specialists
- District Office Administrators

Meeting Dates 2017-2018:

*July 25, December 7, and April 25

*D5 Staff Members

Collaborative Process









High Schools: iPad vs Chromebook

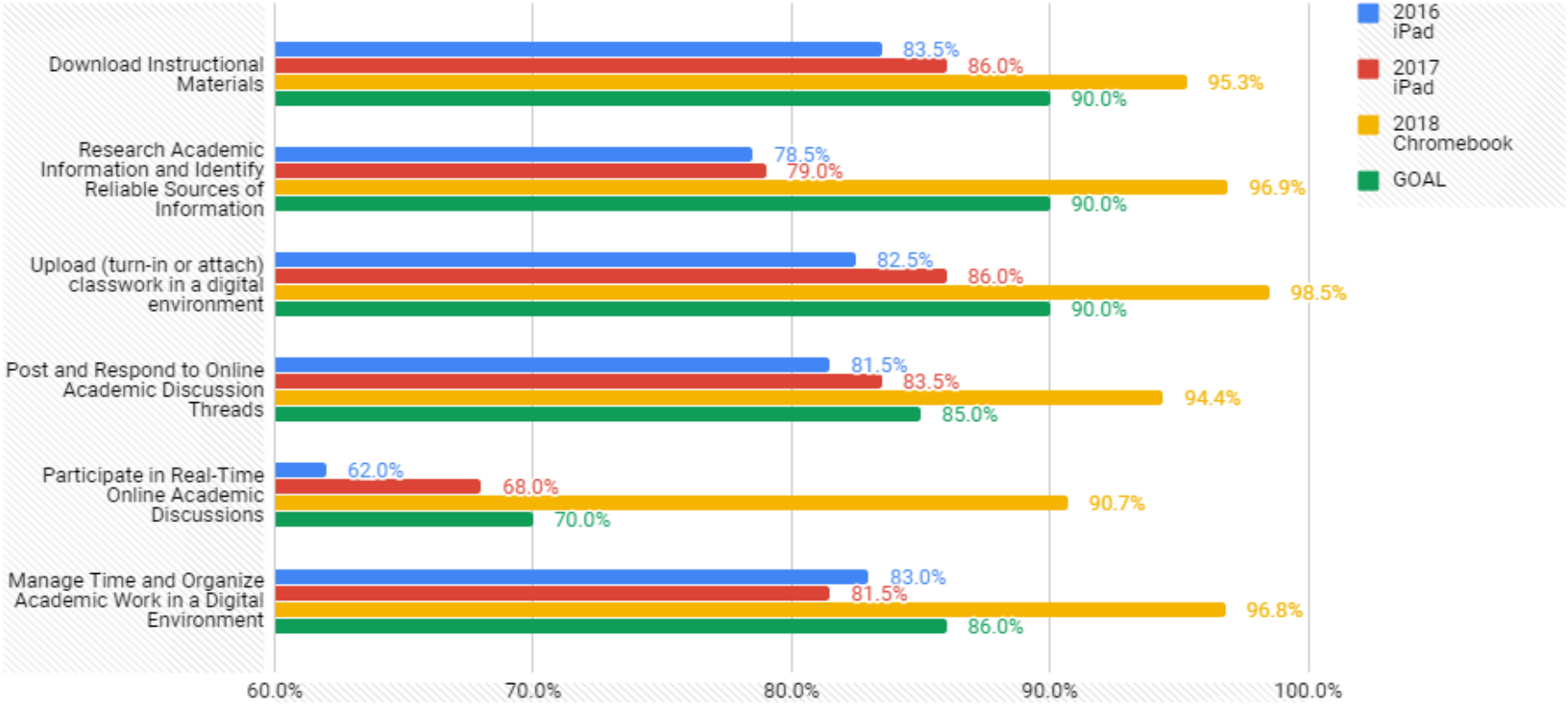


VS



High Schools: iPad vs Chromebook
2017 Freshmen-Juniors to 2018 Sophomores-Seniors

Student Success



Next steps

- Implement SC Computer Science and Digital Literacy Standards
- Hapara Student Management System
- Measuring Success with BrightBytes’ analytic data
- Continue to utilize Future Ready tools and resources

“Our job, sometimes, is simply to be the spark, help build confidence, and then get out of the way. If innovation in any school is solely dependent upon one person, it will continue to happen in pockets. In contrast, when we focus on empowering learners to become leaders, they help spread ideas.”

– George Couros in The Innovator’s Mindset