



# EXCELLENCE EQUITY & OPPORTUNITY

2023-30 STRATEGIC PLAN

January 23, 2025

## Executive Limitation 12: Technology



## Executive Limitation #12: Technology

*The Superintendent shall not fail to use technology to support teaching, learning, stakeholder engagement, communication, accessibility, innovation, efficient operational practices, and the Division's Strategic Plan goals. Technology resources are used in a balanced manner to augment and enhance student learning.*

# Executive Limitation #12: Technology

1. Implement an innovative, future-focused, comprehensive, and efficient approach to provide accessible and equitable technology resources in support of instruction, student learning, accessibility, and student activities.
2. Provide innovative, comprehensive, and robust managerial technology systems that provide for the collection of reliable, relevant, and valid data to inform decision-making, direct school, and instructional improvement planning, and address the needs of students, staff, and community.
3. Maintain a comprehensive and functional technology infrastructure system that is modernized based on industry standards and best practices.
4. Provide for a safe and secure computing environment for students and staff that:
  - a. Establishes expectations of use of technology by staff and students;
  - b. Provides a means for interactive communication between the school system and staff, students, families, and the community;
  - c. Prohibits the use of technology resources for commercial, political, or indecent purposes that disrupt the learning environment or those prohibited by federal, state, or local laws, or FCPS policies;
  - d. Uses methods of collecting, reviewing, transmitting, or storing information that protect against cyber threats and improper access to the information being elicited.

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5. Establish appropriate boundaries and ethical guidelines for the use of artificial intelligence in educational and operational settings.
6. Provide the training, tools, and accessibility resources for appropriate staff to support the instructional needs and inclusion of all learners.
7. Ensure staff and students are provided with training and support to effectively, ethically, and safely use technology tools and resources provided by the Division and engage with these resources as digital citizens.
8. Deliver transparent information for families about the purpose and frequency of technology use in the classroom and the Division.

## #1: Implement an innovative, future-focused, comprehensive, and efficient approach to provide accessible and equitable technology resources in support of instruction, student learning, accessibility, and student activities.

- The FCPSOn program objectives ensure the availability of age-appropriate 1:1 devices for all FCPS students. Since SY 2020-21, the Department of Information Technology (DIT) has scaled student device availability to ensure every FCPS student has access to a device less than five years old. The table below shows current FCPS investments in student devices across all grade levels.

FCPS managed 1:1 Student Device Investments				
Pre-K-2 Devices	Elementary Schools (3-6) Devices	Middle Schools Devices	High Schools Devices	Total FCPS managed Student Devices
Pre-K & K iPads: 17,880  Grade 1-2 Laptops: 25,164 (SY 2021-22)	Laptops: 58,925 (SY 2020-21)	Laptops: 25,961 (SY 2024-25)	Laptops: 68,011 (SY 2023-24)	195,941

Note: counts do not include devices that may be repurposed by schools from prior purchases, carts, or lab devices etc.

## **#1: Implement an innovative, future-focused, comprehensive, and efficient approach to provide accessible and equitable technology resources in support of instruction, student learning, accessibility, and student activities.**

- FCPS has updated the centrally funded laptop refresh cycles. Starting with FY 2025 and beyond, student and teacher laptops will be refreshed every 5 years, a change from the previous 4 year replacement cycle.
- FCPS supported application tools (currently 234 for SY 2024-25) have been vetted instructionally and should be available to all students in the Division, as academically appropriate. This includes, but is not limited to, basal resources, assessment tools, library databases, and creativity tools.
- An emphasis is placed on acquiring suitable student FCPSOn devices.
  - FCPS selected a Chromebook that provides students with a 14 inch display and passed more durability tests of the increasing stringency industry-standard.
  - FCPS opted to purchase a protective case for middle school Chromebook purchases as historical data shows MS laptops account for almost half of student device repairs.

## #2: Provide innovative, comprehensive, and robust managerial technology systems that provide for the collection of reliable, relevant, and valid data to inform decision-making, direct school, and instructional improvement planning, and address the needs of students, staff, and community.

- To support Digital Parent engagement the Online Registration System has been expanded to include Online Student Registration, Online Verification/Update and Impact Aid.
- For SY 2024-25, the Parent Digital Consent System is available for families to consent to more resources across all of their students. School staff can efficiently manage, track, and act on these consents.

**SY 2024-25 Data from SIS Online Registration & Parent Digital Consent**  
(as of December 9, 2024)

	Students Registered via Online Registration	Student Record Updated via Online Verification/Update	Impact Aid Forms collected Digitally (in- Process)	Students With ParentVUE Account	Parent Digital Consent response rate by grade level
<b>Total</b>	<b>4,298</b>	<b>28,291</b>	<b>43,136</b>	<b>88.77%</b>	<b>68.7%</b>



## **#2: Provide innovative, comprehensive, and robust managerial technology systems that provide for the collection of reliable, relevant, and valid data to inform decision-making, direct school, and instructional improvement planning, and address the needs of students, staff, and community.**

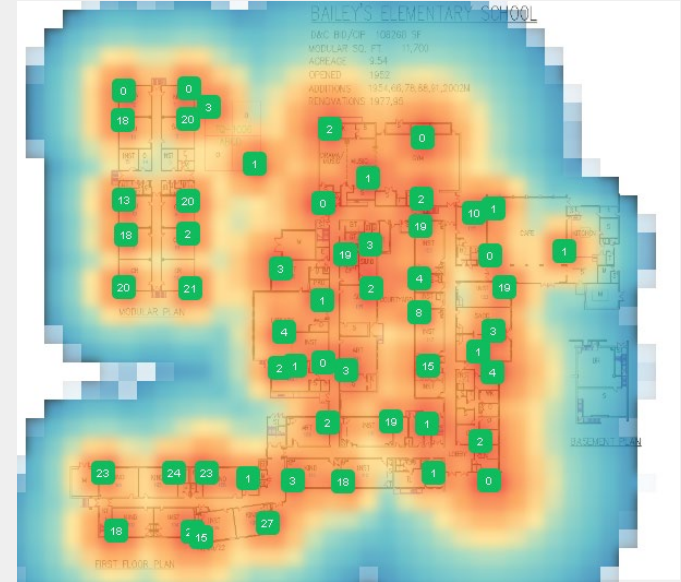
- After a successful pilot in SY 2023-24, Multi-Tiered System of Supports (MTSS) was integrated into SIS and went into production for all schools in SY 2024-25, serving over 37,000 students with over 13,000 MTSS Plans created (as of January 8, 2025).
- DIT continues to reinvest in new technology and systems modernization.





### #3: Maintain a comprehensive and functional technology infrastructure system that is modernized based on industry standards and best practices.

- DIT operates large-scale infrastructure operations connecting 240 buildings via high speed fiber based network.
- FCPS is migrating all wireless access points to modern Juniper MIST technologies.
  - The project began in FY 2023, with expected completion in FY 2027.
  - By the end of FY 2025 the mix will be 58% new Juniper access points and 42% old technology access points.
- The design goal is to have 100% strong WiFi coverage in classrooms and instructional areas across all FCPS buildings.



Example: MIST Coverage map for Bailey's Elementary School with 27 Wireless Access Points in Use to Provide Full Coverage

### **#3: Maintain a comprehensive and functional technology infrastructure system that is modernized based on industry standards and best practices.**

- DIT manages a large and complex networking infrastructure with as many as 300,000 devices connecting to the network during peak usage during a school day, supporting student learning and Division operations. The DIT operations team aims to manage and support the FCPS demands on the networking infrastructure with the highest levels of uptime (99.93% - 99.99%).
  - DIT staff schedules maintenance during off-peak hours (such as evenings, weekends, or holidays) to perform critical work on the technology equipment.
  - FCPS partners with Fairfax County Government to supply and maintain the fiber infrastructure connecting all FCPS buildings. Our fiber infrastructure, if severed, can cause service disruptions during school hours. During FY 2024-25 the Division has experienced 6 outages due to Fiber cuts.

## #4: Provide for a safe and secure computing environment for students and staff.

- As of December 2024, Lightspeed Classroom Management has been integrated into 185 of our 199 schools and centers.
  - Feedback from teachers using the Lightspeed Classroom indicates that the application has a positive impact on the learning environment.
- DIT uses state-of-the-art intrusion prevention, alert detection tooling, and an industry leading endpoint detection tool is deployed to all vulnerable endpoints managed by DIT.



## #5: Establish appropriate boundaries and ethical guidelines for the use of artificial intelligence in educational and operational settings.

- A cross departmental team has established appropriate boundaries and ethical guidelines for artificial intelligence (AI) use in FCPS, ensuring that AI serves as a tool to enhance human capabilities and promote equitable learning opportunities for all students.
- DIT staff carefully evaluates available AI functionality in tools that FCPS already owns or operates. Once validated, the tools are made accessible to the appropriate FCPS staff. In fall 2024, DIT piloted and subsequently deployed Google Gemini AI via the FCPS secured Google environment for all FCPS staff as an approved tool to use for work. In November 2024, FCPS deployed the Zoom AI 2.0 feature to all full-time FCPS staff. Below is the general Zoom usage and the AI tool usage since availability.

FCPS Zoom Usage (January 2024 - November 2024)	
Meetings Hosted - Central Office	140,860
Meetings Hosted - School-Based	91,410
Meeting Participants	1,983,988
AI Meeting Summaries	3,592

## **#6: Provide the training, tools, and accessibility resources for appropriate staff to support the instructional needs and inclusion of all learners.**

- The instructional software review process has been updated to include criteria from the ISTE Teacher Ready Evaluation Tool. This tool supports the selection of the most high-quality, impactful tools for teaching and learning.
- Throughout the past three school years, the Educational Technology Team in ISD has equipped SBTS to implement UDL.
- A group of 21 SBTS and central office staff members are currently working towards ISTE Educator Certification.
- Curriculum developed and adopted by ISD is vetted for accessibility prior to being published for staff and students.
  - Accessibility and copyright training that focuses on how to ensure that content created as part of Summer Curriculum Development (SCD) is accessible to learners as well as meets copyright requirements is included in summer curriculum development projects sponsored by ISD.

## **#7: Ensure staff and students are provided with training and support to effectively, ethically, and safely use technology tools and resources provided by the Division and engage with these resources as digital citizens.**

- During SY 2023-24, 15 FCPS schools earned Common Sense Recognition, a certification awarded to schools that demonstrate they have provided digital citizenship professional development to staff, taught a required number of digital citizenship lessons to students, and expanded family awareness of digital citizenship.
- The DIT Upskilling Academy is dedicated to fostering continuous learning and professional growth within FCPS IT and empower staff with the advanced skills and knowledge essential for implementing modern technologies. The program is built on the leading technology learning platform, Coursera.
  - To date, over 521 employees have joined the program, enrolling in 676 courses in 2023 and 762 courses in 2024.
  - The FCPS DIT Career Academy for Students, created in collaboration with Coursera in April 2023, offers up to 1,000 FCPS high school students a valuable learning opportunity, including access to entry-level certificates through the Coursera Career Academy. To date, 838 student learners have participated, enrolling in 1,051 courses.

**#8: Deliver transparent information for families about the purpose and frequency of technology use in the classroom and the Division.**

- The Lightspeed Parent Portal allows families to be connected and engaged with student learning by providing access for families to view student internet activity when using FCPS issued devices. The portal also enables families to control the internet connectivity on FCPS devices outside of the school hours ensuring each household is able to align student device usage as they deem necessary.

Lightspeed Parent Monitoring Accounts	
SY 2023-24	SY 2024-25 (as of November 2024)
7,878	10,281

- Parents can review instructional digital resources utilized in FCPS classrooms for Instructional Purpose, Parental Permission, Privacy and Conditions of Use, and Account and Access Details through the FCPS Digital Ecosystem Library. Furthermore, FCPS requires parental consent to use online tools, ensuring transparency and compliance with privacy regulations.





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