



March 2024 Committee of the Whole

*Division of*

# **INFORMATION & INSTRUCTIONAL TECHNOLOGY UPDATES**

**Monika Davis**  
**Chief Information Officer**

**"DISRUPTING FOR EXCELLENCE"**

**WHAT IS OUR WHY...**

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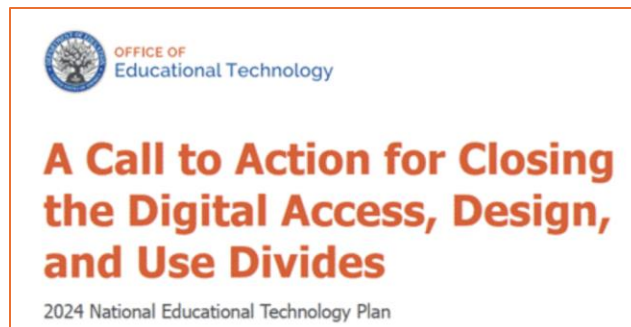
A young student with glasses is focused on a laptop screen. In the foreground, a LEGO Technic robot is being assembled on a table. The background is a blurred classroom setting.

# Empowered Digital Learning Environment

Cultivate and support a ***constantly accessible*** learning environment supported by ***innovative technology*** that encourages ***all students*** to be active, creative, knowledgeable, and ethical ***participants in our globally connected society.***

# Foundational Pillars: Student Success Leveraging Educational Technology

- Equity and Inclusion
- Transformative Technology Integration
- Digital Citizenship and Literacy
- Ongoing & Impactful Professional Development
- Digital Vision and Leadership



# Technology Infrastructure & Empowered Digital Learning Environment



## Core Infrastructure

- Robust, High-Speed Network
- Cloud-Based Systems
- Modern Data Center
- Enhanced Data Privacy and Security



## Classroom Technology

- Interactive Displays
- Devices
- Innovative Peripherals & Tools
- Quality Digital Content and Resources
- Digital Classroom Management Tools



## Beyond the Technical

- Professional Development
- Reliable IT Support
- Equitable Access
- Vision and Alignment
- Community Engagement

# **DIGITAL LEARNING JOURNEY: Infrastructure & Technology Updates**

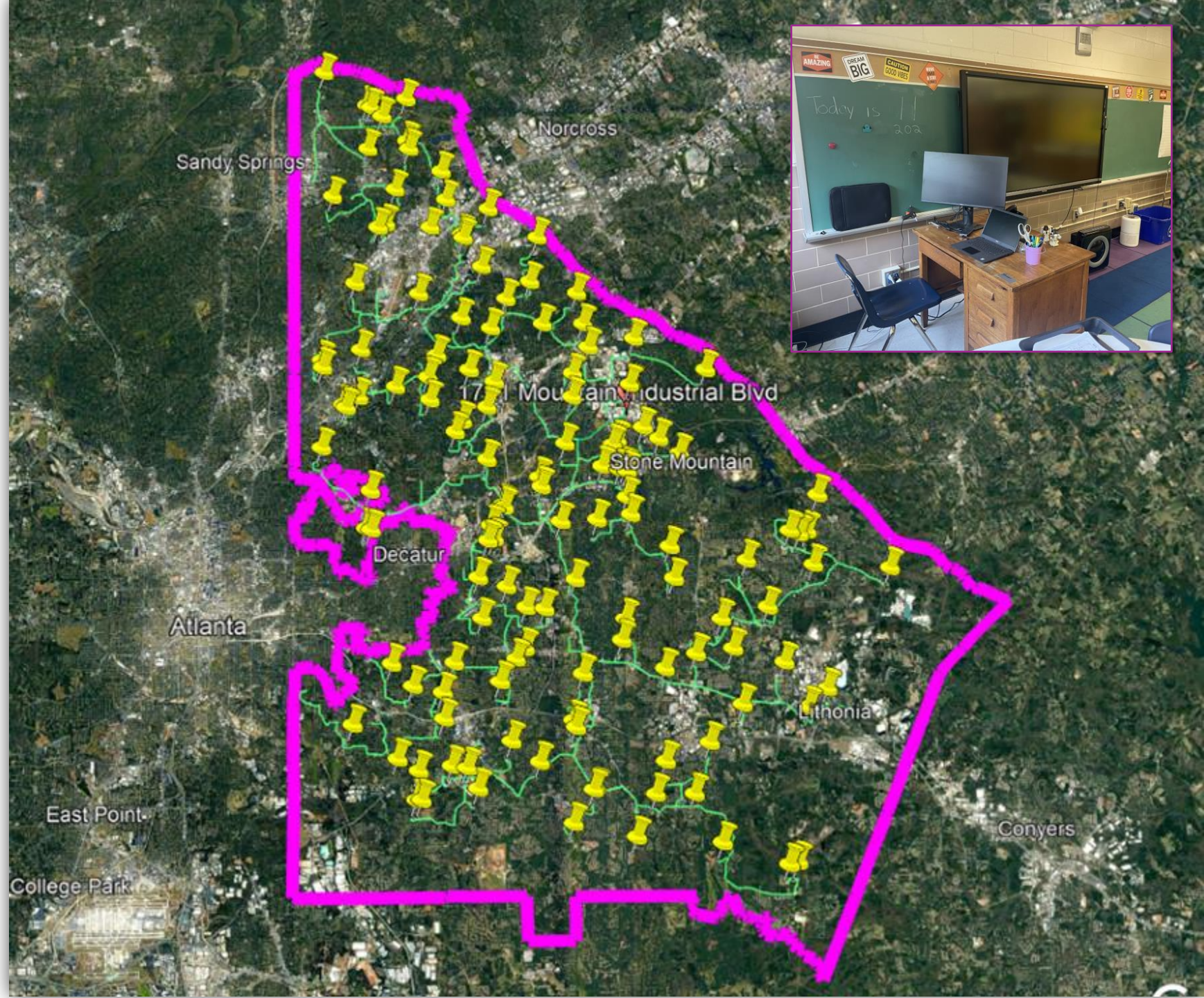
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## Technology Infrastructure

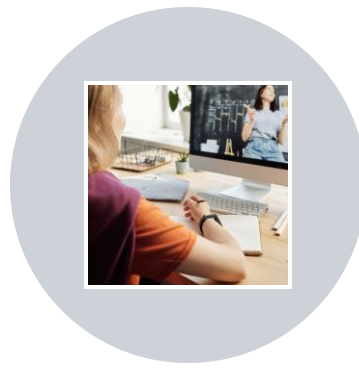
- Over 290 miles of self-provisioned fiber connecting all DCSD schools and centers
- 2813 network switches and routers
- 7648 wireless access points
- 40 Gb of Bandwidth
- 184 physical and 140 virtual servers
- 27,961+ Desktop & Laptop devices
- 116,465+ Chromebook devices
- 6000+ Interactive Panels
- 115,000+ technology users
- 7859 Security Cameras
- 1500+ Door Access Readers

*DCSD has the largest technology infrastructure in DeKalb County and one of the largest in the state of Georgia.*





**PRE-PANDEMIC**  
(2019 – 2020)



**THE PANDEMIC**  
(2020 – 2021)



**ADAPTING TO THE NEW  
NORMAL** (2021 – 2022)

# CATALYSTS OF EDTECH TRANSFORMATION



**ASSESS, PLAN,  
STABILIZE** (2022 – 2023)



**FUTURE STATE AND PATH  
FORWARD** (2023 – 2024)



# Division of Information and Instructional Technology

## Goals for 2022 - 2025

Improve device management.

Remediate and refresh network and data center infrastructure.

Harden information, cyber, network and physical security.

Enhance and innovate the digital learning environment.

Empower the “Digital Village”.

# Improve Device Management



## Project Description

## Project Status

## Anticipated End Date

### Student and Staff Devices Refresh

*(12,000 staff devices, 92,000 student devices)*

**Not Started**

**08/2026**

### Device Distribution Dashboard

**Completed**

**12/2023**

### Print Management Services & Copier Refresh

*(810 copiers)*

**In Progress**

**10/2024**

### Interactive Flat Panels

*(3250 flat panels)*

**In Progress**

**09/2024**

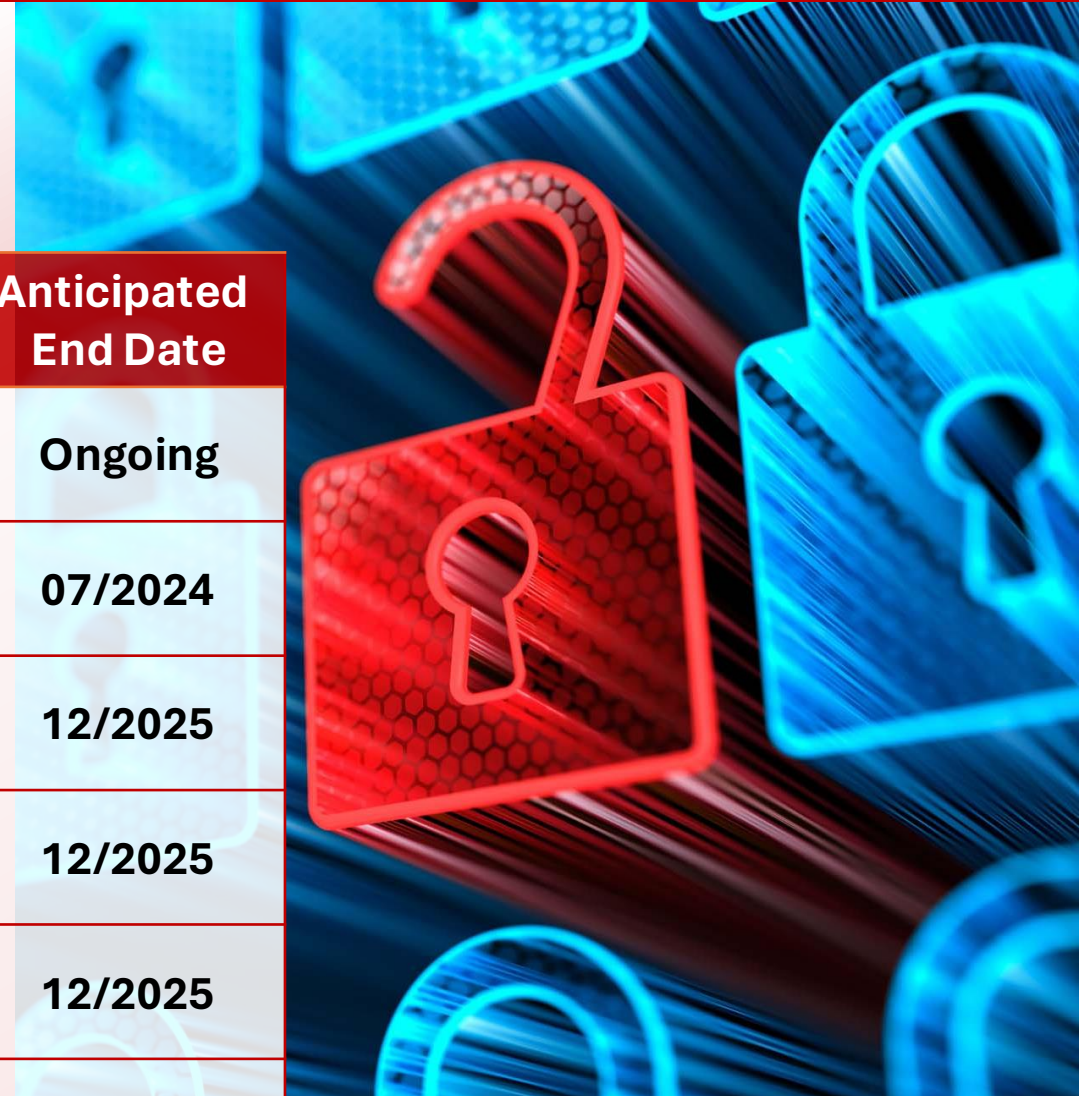
# Remediate and refresh Network and Data Center Infrastructure

Project Description	Project Status	Anticipated End Date
<b>Server Infrastructure Refresh</b>	<b>In Progress</b>	<b>04/2024</b>
<b>ERP Transition (Legacy to Cloud)</b>	<b>In Progress</b>	<b>06/2024</b>
<b>Future-State Core Network Infrastructure</b>	<b>In Progress</b>	<b>12/2024</b>
<b>Cabling Refresh</b> <i>(21,354 network drops)</i>	<b>In Progress</b>	<b>12/2024</b>
<b>Wireless Access Point Refresh</b> <i>(8412 access points)</i>	<b>In Progress</b>	<b>12/2024</b>
<b>Switch Infrastructure Refresh</b> <i>(2813 switches)</i>	<b>In Progress</b>	<b>12/2024</b>
<b>Stadium Connectivity</b>	<b>In Progress</b>	<b>06/2024</b>

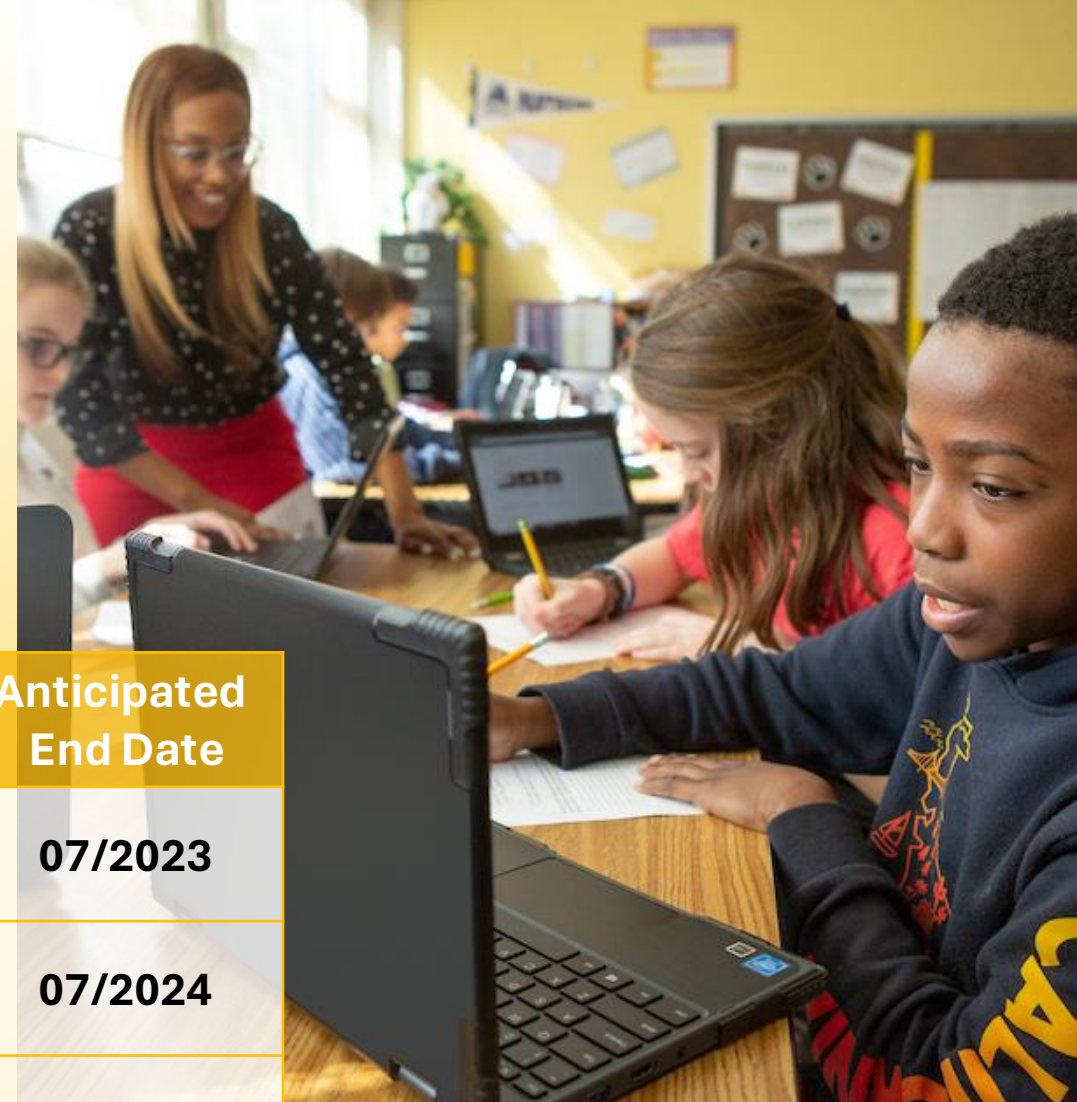


# Harden Information, Cyber, Network and Physical Security

Project Description	Project Status	Anticipated End Date
<b>Infrastructure Updates and Security Controls</b>	<b>In Progress</b>	<b>Ongoing</b>
<b>IT Security Policy &amp; Stakeholder Training</b>	<b>In Progress</b>	<b>07/2024</b>
<b>Records Digitization</b>	<b>In Progress</b>	<b>12/2025</b>
<b>Physical Security - Intrusion Alarm</b> <i>(251 miles cable, 5402 door contacts, 7922 motion sensors)</i>	<b>In Progress</b>	<b>12/2025</b>
<b>Physical Security - Door Access</b> <i>(1446 card readers, 306 access control panels )</i>	<b>In Progress</b>	<b>12/2025</b>
<b>Physical Security – Cameras</b> <i>(7991 cameras)</i>	<b>In Progress</b>	<b>12/2025</b>



# Enhance and Innovate the Digital Learning Environment



Project Description	Project Status	Anticipated End Date
<b>Adoption of Board-Approved Learning Management System</b>	<b>Complete</b>	<b>07/2023</b>
<b>Digital Resource Application Optimization</b>	<b>In Progress</b>	<b>07/2024</b>
<b>Student-Led IT HelpDesk</b> <i>(Proof of Concept)</i>	<b>In Progress</b>	<b>01/2024</b>

# Empower the “Digital Village”

Project Description	Project Status	Anticipated End Date
<b>IGNITE U/FUSE Cohort IV</b>	<b>In Progress</b>	<b>05/2024</b>
<b>Technology Symposium</b>	<b>In Progress</b>	<b>07/2024</b>
<b>Hack Ur Dream: Hack-A-Thon</b>	<b>In Progress</b>	<b>03/2024</b>
<b>Student Technology Competition</b>	<b>Completed</b>	<b>01/2024</b>
<b>Community Tech Café</b>	<b>In Progress</b>	<b>Ongoing</b>
<b>Stakeholder Communication and Collaboration Enhancements</b>	<b>Not Started</b>	<b>12/2024</b>



# ESPLOST 6 Technology Projects

2022 – 2027



## Network Infrastructure Refresh

- *Cabling Plants (Fiber and Copper)*
- *Wireless Access*
- *Switch Infrastructure*

## Physical Security Refresh

- *Intrusion Alarms*
- *CCTV (Security Cameras)*
- *Access Control*

## Device Refresh

## Communication Enhancements for Stakeholder Engagement

# Challenges

Change  
Management

Retooling and  
Reskilling  
Existing IT Talent

Recruitment  
and Retention of  
IT Talent



**THE JOURNEY  
CONTINUES...**

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**“Students don’t fail. Structures  
and systems fail students.”**

*- Dr. Devon Q. Horton*

***[www.dekalbschoolsga.org/miracles](http://www.dekalbschoolsga.org/miracles)***

# Next Steps

Complete Projects Underway (MIRACLES 1.0)

Comprehensive Audit of IT (People, Processes, Technology)

Development of Technology Roadmap for 2025

MIRACLES 2.0



# The WHY is in the FUTURE

Many of our  
current students'  
future jobs don't  
exist.



Urban Agriculture  
Vertical Farming  
Engineer



Artificial Intelligence  
Regulator



Bioprinting Specialist



Immersive Technology  
and Content Creator

“The illiterate of the future  
are not those who can't read or write  
but those who cannot  
**learn,**  
**unlearn,**  
and **relearn.**”

*Alvin Toffler, Future Shock*



# Questions & Discussion