

Work Session w/ Action

Tuesday, August 11, 2026 6:00 PM

Junior-Senior High School Room 116, 435 Kings Highway, Carnegie, PA 15106

1. **Massaro Construction Manager Report**
2. **Education and Technology Committee**



2026

CARLYNTON SCHOOL DISTRICT TECHNOLOGY ENVIRONMENT REPORT



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8/11/2026

CURRENT STATUS OF TECHNOLOGY ENVIRONMENT REPORT

Educational Technology Needs Assessment

EXECUTIVE SUMMARY

The Carlynton School District has established a strong foundation for educational technology integration, artificial intelligence adoption, and future-ready learning environments. Current district technology resources demonstrate significant investment in instructional technology, classroom presentation systems, network infrastructure, and student device access.

The district is well-positioned to continue expanding instructional innovation, AI readiness, digital learning opportunities, and operational efficiency. However, several areas require strategic attention to ensure sustainability, equitable access, cybersecurity readiness, and long-term modernization.

This report summarizes the current status of the district's technology environment, identifies strengths and areas for improvement, and outlines recommended next steps for future planning.

CURRENT TECHNOLOGY SNAPSHOT

Student & Instructional Technology Inventory: *Endpoint Devices and Classroom Technology*

Technology Resource	Estimated Quantity
Google Chromebooks	1,515
Windows Laptops	260
Interactive Displays	110
Physical Servers	4
Virtual Servers	19
Network Switches	23
Wireless Access Points	133
Security Cameras	94

Technology Resource	Estimated Quantity
3D Printers	3
Multifunction Copiers/Printers	11

Estimated Technology Refresh Value

The estimated replacement value of district technology infrastructure exceeds:

- Endpoint & instructional devices: approximately \$1.29 million
- Network infrastructure: approximately \$370,000

This demonstrates a significant district investment in instructional technology and operational systems.

TECHNOLOGICAL ASSETS:

1. Strong Student Device Access

The district has implemented a substantial Chromebook deployment, providing broad student access to digital learning tools.

Positive Indicators

- Large Chromebook inventory supports digital instruction
- Strong foundation for blended learning and online assessments
- Supports district movement toward AI-enhanced learning environments
- Positions students for digital literacy skill development

Impact

Students have regular access to digital instructional resources and learning platforms that support personalized learning opportunities.

2. Classroom Technology Integration

The district has invested heavily in classroom instructional technology.

Positive Indicators

- 110 interactive displays across instructional spaces

- Classroom presentation systems available districtwide
- wireless presentation devices support flexible instruction
- Multiple display and monitor configurations support modern instruction

Impact

Teachers are equipped with tools that support:

- Student engagement
- Interactive instruction
- Multimedia learning
- Collaborative classroom experiences

3. Established Network Infrastructure

The district maintains a relatively mature network infrastructure environment.

Positive Indicators

- 23 physical network switches
- 133 wireless access points
- Dedicated firewall appliance
- Content filtering systems in place
- Backup appliance infrastructure
- Server virtualization environment implemented

Impact

The district has foundational systems necessary to support:

- Cloud-based learning
- Student devices and digital curriculum
- District operational systems
- Future technology expansion

4. Security & Operational Technology Systems

The district has invested in operational technology systems that support safety and continuity.

Positive Indicators

- 94 security cameras deployed
- UPS devices for power continuity
- Environmental sensors installed
- Backup systems implemented

Impact

These systems contribute to:

- School safety
- Infrastructure stability
- Reduced operational disruption
- Improved monitoring capabilities

5. Security & Operational Technology Systems

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Impact

These systems contribute to:

- School safety
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6. Alignment with Future-Ready Learning Goals

The district's Education & Technology Committee framework demonstrates forward-thinking leadership regarding:

- Responsible AI use
- Lifelong learning
- Workforce readiness
- Technology-supported instruction
- Student adaptability

This governance structure positions the district well for future strategic planning.

STRATEGIC PLANNING AND COMMUNITY ENGAGEMENT FOR PRIORITIZING TECHNOLOGY INITIATIVES

Throughout the 2026-2027 school year, the District will develop a multi-year comprehensive plan which will include a strategic plan specifically for technology. The strategic planning process will provide opportunities to gather feedback and suggestions from students, teachers, employees, parents, and community members in the prioritization of the District's short- and long-term technology initiatives.

In order to establish a foundation to begin discussions for the technology strategic planning process, the District has identified the following six areas of concern that serve to frame our initial conversations.

IDENTIFIED AREAS OF CONCERN

1. Aging Infrastructure & Replacement Sustainability

Although the district possesses a substantial amount of technology equipment, there is concern regarding long-term replacement sustainability.

Concerns

- Large quantity of devices will require cyclical replacement

- Interactive displays represent significant future replacement costs
- Servers and networking equipment may approach end-of-life cycles
- Technology refresh funding may become increasingly difficult without formal planning

2. Wireless Density & Capacity Questions

While wireless infrastructure exists, current data does not fully confirm whether wireless coverage and bandwidth density are sufficient for:

- AI-enabled instructional tools
- High-density simultaneous device usage
- Streaming multimedia instruction
- Future digital assessment growth
- Expanded classroom technology integration

3. Limited Formal AI Governance Structures

The district has established strong philosophical goals around responsible AI use, but formal operational systems are still emerging.

Current Gaps

- Formal staff AI guidelines operationalized
- Student AI usage expectations formally documented
- AI privacy protocols
- AI instructional frameworks
- AI procurement review procedures
- AI literacy curriculum expectations

4. Cybersecurity Readiness Needs Further Review

Current infrastructure demonstrates basic security measures, but additional assessment is recommended.

Areas Requiring Evaluation

- Multi-factor authentication implementation
- Endpoint protection systems
- Phishing awareness training

- Cybersecurity incident response procedures
- Vendor risk management
- Student data privacy safeguards
- Backup recovery testing

5. Limited Data Regarding Instructional Technology Effectiveness

The current inventory demonstrates what technology exists, but not necessarily how effectively it is being used.

Missing Information

- Classroom technology utilization rates
- Teacher instructional confidence levels
- Student technology engagement data
- AI readiness among staff
- Professional development needs
- Student digital literacy outcomes

6. Need for Formal Lifecycle & Asset Management Planning

The district possesses a substantial technology inventory but should continue strengthening long-term lifecycle management.

Areas for Improvement

- Formal device replacement schedule
- Standardized refresh cycles
- Long-term budgeting projections
- Asset retirement procedures
- Inventory auditing processes
- Warranty tracking systems

SUGGESTED NEXT STEPS:

Priority 1: Develop Districtwide Educational Technology Strategic Plan

Recommended Components

- Vision and mission
- AI readiness goals
- Infrastructure goals
- Professional development plan
- Equity and accessibility goals
- Student digital literacy benchmarks
- Workforce readiness alignment
- Budget forecasting
- Measurable key performance indicators

Goal 1A:

- Align all technology initiatives with district strategic priorities and student outcomes.

Priority 2: Develop a Multi-Year Technology Refresh Plan

Recommended Actions

- Establish 4-year student/staff device refresh cycle
- Create infrastructure replacement timelines
- Identify recurring budget projections
- Develop sustainable funding strategies

Goal 2A:

- Reduce unexpected replacement costs and improve technology reliability.

Priority 3: Establish District AI Governance Framework

Recommended Actions

Develop:

- Staff AI guidance documents
- Student AI expectations
- AI acceptable use procedures
- AI instructional integration framework
- AI literacy expectations by grade level

Goal 3A:

- Create a consistent, responsible, and educationally appropriate AI implementation for students and employees.

Priority 4: Expand Cybersecurity Readiness

Recommended Actions

- Conduct cybersecurity risk assessment
- Review backup recovery procedures
- Update incident response plans
- Evaluate cyber insurance requirements

Goal 4A:

- Improve district operational resilience and data protection.

Priority 5: Conduct Instructional Technology Utilization Study

Recommended Actions

- Survey staff, students, and families
- Conduct classroom walkthroughs

- Evaluate instructional technology integration
- Assess professional development needs
- Identify model classrooms and best practices

Goal 5A:

- Ensure technology investments positively impact teaching and learning.
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OVERALL ASSESSMENT

The Carlynton School District demonstrates a strong commitment to educational technology, instructional modernization, and future-ready learning. The district has already invested substantially in devices, classroom instructional technology, network infrastructure, and operational systems.

The district's greatest opportunity moving forward is transitioning from technology acquisition to strategic technology optimization.

The next phase of work should focus on:

- Sustainability
- AI governance
- Cybersecurity readiness
- Instructional effectiveness
- Data-informed decision-making
- Long-term modernization planning

The district is well-positioned to become a regional leader in responsible AI implementation and future-ready learning if these next strategic steps are implemented in a systematic and sustainable manner.

RECOMMENDED BOARD DISCUSSION TOPICS

1. How can the board provide governance to ensure that student success is measured in a holistic way?
 2. Given what we know of the district's current priorities and our administration's capacity, what is the top priority for this committee to discuss and decide over the next quarter? What information do we need to get there?
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CONCLUSION

The Carlynton School District has established a strong technological foundation and an innovative governance framework focused on student preparedness, responsible AI use, and lifelong learning.

With thoughtful planning, sustainable investment, and continued strategic leadership, the district is positioned to expand instructional innovation while preparing students to succeed in a rapidly changing technological landscape.