



March 29th Presentation

Technology



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State of the Department - IT Journey



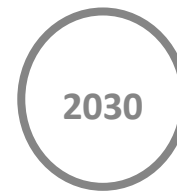
Infrastructure - centric
vision and metrics

Invested in fiber-optic networks, WiFi, increased bandwidth to campuses, data protection, video surveillance, and environmental controls.



Device - centric
vision and metrics

Invested in modern education systems, including SIS, ERP, LMS, digital assessments



Student - centric
vision and metrics

Seamless learning experience designed to prepare students for future jobs

Equitable access to digital instructional materials, personalized learning, and real-time data analytics with AI

State of the Department



EST. 1881

Austin ISD is the fifth-largest school district in Texas.



125 SCHOOLS

Austin ISD consists of elementary, middle, high, early college, academy, magnet, alternative and community schools.

74,871

Students

5,508

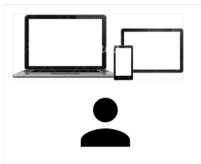
Classroom Teachers

1,569

Administrators &
Professional Staff

3,866

Bus Drivers, Custodians, Food
Service Staff & Educational Aides



100K

Computing
Devices



10K

Access
Points



300K

Daily
Received
Emails



800

Enterprise Systems



10K

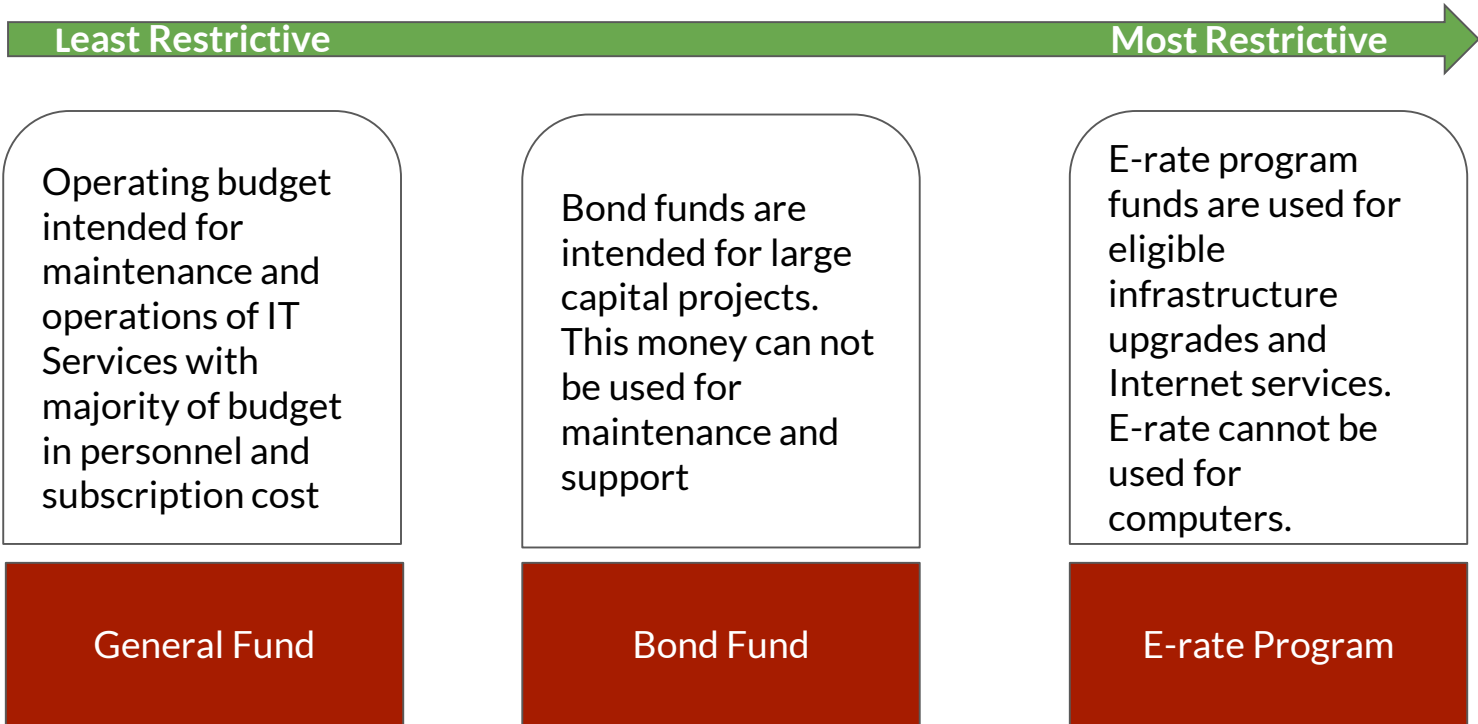
Help Desk Incidents



> 100K

User Community
(Students, Parents, Staff)

State of the Department - Funding



State of the Department - Standards*

	PreK-2	3-5	6-12
IT Infrastructure	<ul style="list-style-type: none">• 20 GB connection to the every campus.• One Wifi AP, clock, phone & PA speaker per classroom and common areas• 4 user network ports per classroom		
Audio / Visual	1 Innovation Station per Learning Space		
Teacher Device	One laptop per teacher		
Student Device 1:1	Tablet or Chromebook	Chromebook	

*Bond dollars are imperative to maintain these standards

State of the Department - 2017 Bond

- **7,108 teacher laptops deployed**

**This number includes principals, assistant principals, counselors as well as teachers.*

- **6,288 presentation systems in learning spaces**

- **53,000 student devices**

**24K iPads and 29K Chromebooks*

- **28,818 hotspots for students**

**The hotspots are not bond purchased*

- **Infrastructure upgrades: Network Cabling, WiFi, Firewall, Internet filtering, Environmental Controls, Video Surveillance, Classroom audio communication, and security enhancements.**

- **98 computer labs installed**

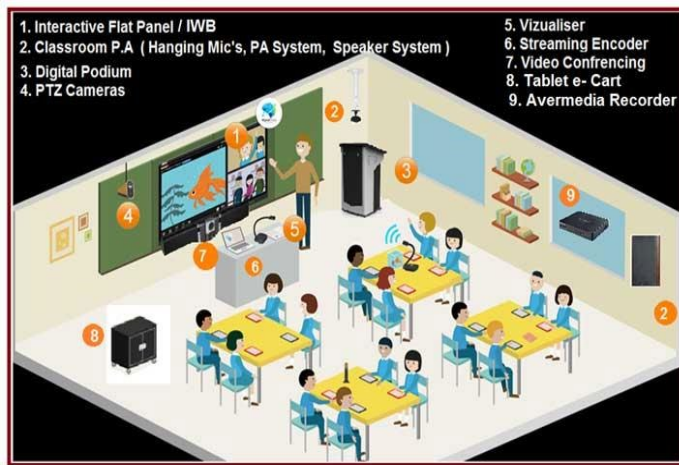
**All elementary and middle schools.*

7 Conditions for Student Success

We operate with the understanding that equitable systems of education strive to create the following conditions in order to promote student success:

- Culturally proficient, experienced teachers and staff
- Recognition and cultivation of gifts, talents and interests
- High expectations and support to meet those high expectations
- Positive relationships with teachers and peers
- A sense of belonging, empowerment, connection and identity safety
- Rigorous, relevant and inclusive curriculum centering their language, racial and cultural identities
- Well-maintained facilities that support state of the art instruction and support cultural identities and safety

Technology Top Priorities



Future Classroom

1. Instructional Spaces
2. Refresh District Infrastructure
3. Modernize Applications
4. Enhance Security

Instructional Spaces

Which of the 7 Conditions for Student Success does this support?

- Well-maintained facilities that support state of the art instruction and support cultural identities and safety.

Which problem statements does this address?

- Not all students and staff have access to appropriate technology.

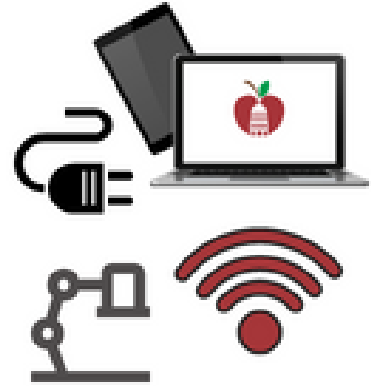
Which additional committees does this impact?



Instructional Spaces

Maintain District technology standard

- PreK-12: Maintain 1:1 devices for all students
- Infrastructure: WiFi, 4 drops, sufficient power per classroom, phone and intercom speaker
- Audio / Visual: *Presentation device and document camera



*Standard may change based on latest technologies

Instructional Spaces

Enhance District technology standard

- Update and add staff devices
- Library: *Presentation device and computer lab
- Library: Makerspaces and Robotics kits



*Solutions may change based on latest technologies

Refresh District Infrastructure

Which of the 7 Conditions for Student Success does this support?

- Well-maintained facilities that support state of the art instruction and support cultural identities and campus safety and security.

Which problem statements does this address?

- Historically underserved students of all ages do not have technology integrated in all learning curricula.

Which additional committees does this impact?



Refresh District Infrastructure

- Expand CBRS LTE infrastructure
- Network Hardware Modernization (7 yr lifecycle)
- WiFi Modernization and outdoor learning area expansion
- Unified Communications
- Campus Cabling Refresh (25 yr lifecycle)
- Enhanced Backup Power Solutions (4 yr lifecycle)
- Data Center Refresh and Modernization

Modernized Applications

Which of the 7 Conditions for Student Success does this support?

- Well-maintained facilities that support state of the art instruction and support cultural identities and safety.

Which problem statements does this address?

- Historically underserved students of all ages do not have technology integrated in all learning curricula.

Which additional committees does this impact?



Modernize Applications

Supported Student ID Applications

- Lunch (Barcode)
- Library (Barcode)
- Student Ridership (RFID)
- Device Login (QR Code)

Future Student ID Applications

- School Events
- PBIS Initiatives
- Print Management
- Door Access

Student “ONE” card



Enhance Security

Which of the 7 Conditions for Student Success does this support?

- A sense of belonging, empowerment, connection, and identity safety.

Which problem statements does this address?

- Not all students and staff have access to appropriate technology.

Which additional committees does this impact?



Security Focused Solutions



Account Security Enhancements

Identity Management and Rostering Services
MFA Expansion/badge/"one" card/QR/FIDO



Network Security Enhancements

CIPA Internet filtering solutions
Enhance email security services
Next Generation Firewall Services



Endpoint Security Enhancements

Next Generation Endpoint Protection
Central logging and threat detection via SIEM
Expert outsourced monitoring (SOC)
Device Management
Pen testing for security validation and remediation

Technology Bond Investments

Category	Description	Investment (\$)
Instructional Technology	Student devices, Staff devices, Presentation stations, document cameras, maker spaces, robotics kits	80 M
Network Infrastructure	Wifi, Network Hardware, MDF/IDF, building cabling, video surveillance, data center upgrades, facility management.	50 M
Applications	Student “ONE” cards	5 M
Network Security	Endpoint protection, MFA, Internet Filtering	15 M
Total		150 M

Question and Answer Session