



# March 29th Presentation

## Technology



Sean Brinkman, Chief of Technology

# 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**

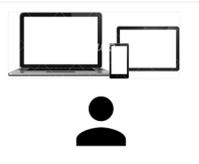
Classroom Teachers

**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**

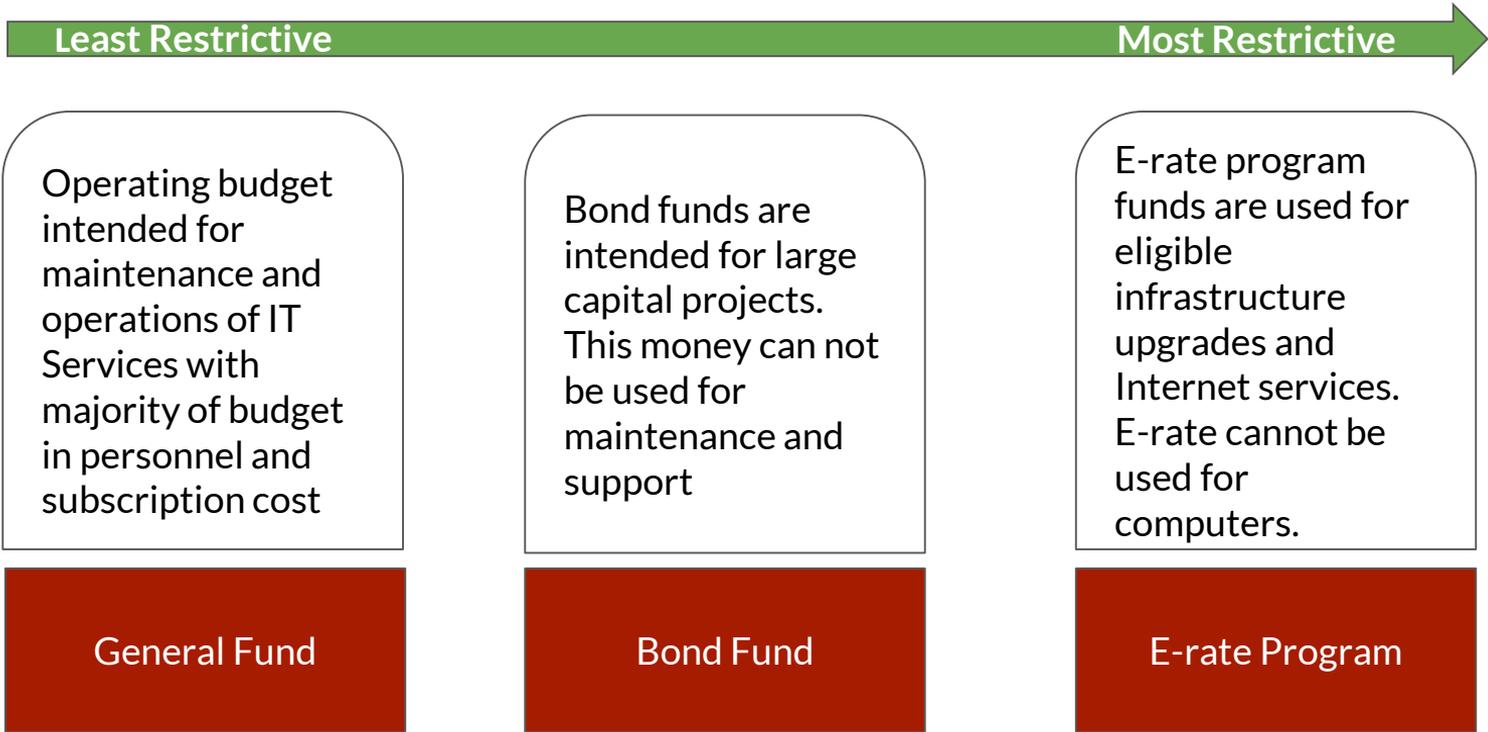
Help Desk Incidents



**> 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"><li>● 20 GB connection to the every campus.</li><li>● One Wifi AP, clock, phone &amp; PA speaker per classroom and common areas</li><li>● 4 user network ports per classroom</li></ul>		
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.

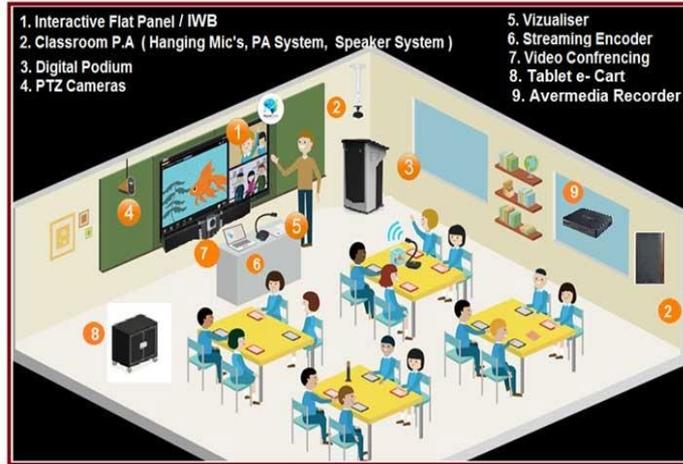
# 7 Conditions for Student Success

---

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?

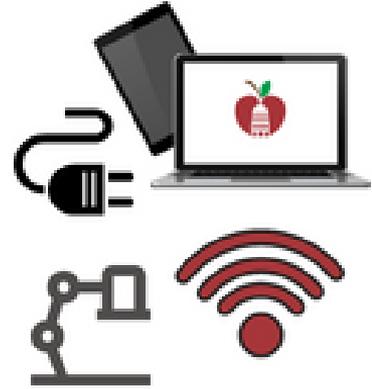


# Instructional Spaces

---

## 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?



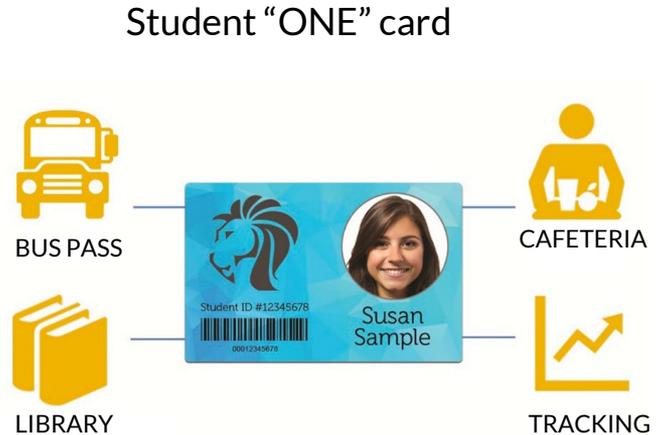
# Modernize Applications

## 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



# 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