

Finance Committee

TECHNOLOGY PLANNING DECEMBER 11, 2017

2018-19+ Technology Planning

Learning Environment

- 1:1 Student Devices
- Staff Device Replacements
- Projector Replacements
- Labs/Desktops/Shared Spaces

Network + Infrastructure

- Switch + Access + Capacity
- Wireless Network
- Funding Support (E-Rate)



Looking Ahead -> Learning Environment

OUR STORY (2012 -> TODAY)

- Commitment to technology for learning
- Investments + Growth in Network
- Mobile blooms Wireless installed
- Welcoming 1:1
- Entry to cloud services

BEYOND TODAY (2019+)

- GenOvation culture
- Maintaining + Norming 1:1
- Optimizing + Securing the Network
- Mobile is king Wireless standard
- Cloud services are core
- Labs/classrooms are changing

2018-19 Learning Environment Plans

Initiatives/Projects

- 1:1 Learning: 2nd, 5th, 6th, 9th
- Staff device replacements + Expanded access
- Projector upgrades
- Other updates (labs, desktops, etc)

Estimated Costs: \$650k (\$572k + Other)

1:1 Learning (K-12)

1,615 student devices @ \$375,520 (Year 1)
 Cash basis approx. cost: \$724,000

Staff Device Replacements

275 staff devices @ \$116,520 (Remaining Staff)
 Cash basis approx. cost: \$300,000

Projector Replacements

~65 projectors @ \$80,000 (HES, FES)

Looking Ahead -> Network + Infrastructure

OUR STORY (2012 -> TODAY)

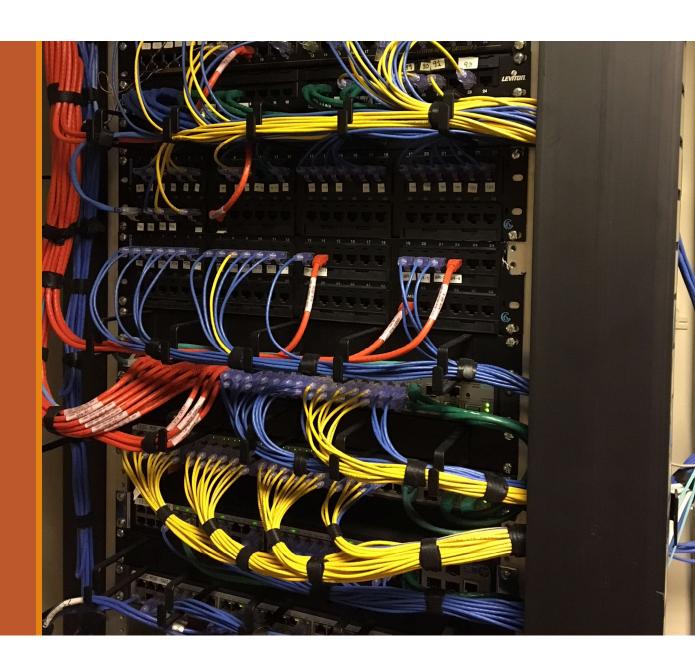
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Evolving Needs

INFRASTRUCTURE IS THE
BACKBONE OF THE 1:1 LEARNING
ENVIRONMENT. AS NEEDS
EVOLVE, SO TOO MUST THE
HIDDEN EQUIPMENT AND WIRES



Life Cycles

Target Replacement Cycles for Capital Equipment

Student Devices

K - 1 iPads: 3 years

2 - 8 Laptops: 3 years

9 - 12 Laptops: 4 years

Staff Devices

Laptops: 4 years

Network + Infrastructure

Core Switches/Routers: 7 years

Access/PoE Switches: 7 years

Firewall: 4-5 years

Wireless Network: 5 years

Data Center: 5 years

Projectors

7 years

3-Year Network Upgrade Plan

Key Outcomes

- Network Equipment Upgrade +
 Consolidation
- LAN/WAN Capacity Increases
- Wireless Network Capacity

Estimated Cost of 3-Year Plan

- \$1.3 million
- E-Rate Offset: ~\$275k (max)

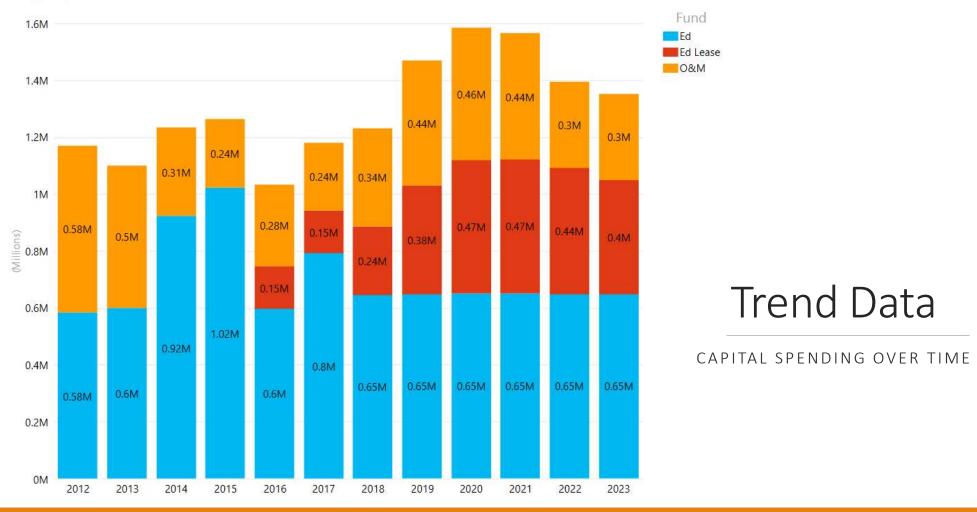
*Cost TBD; **E-Rate Category 2 Expended

| 2018-19 | 2019-20 | 2020-21 |
|--|---|---|
| Network EquipmentAll CoresAccess/PoECabling | Network EquipmentFirewall*Internet Bandwidth* | Network Equipment • N/A |
| Capacity10Gb WAN10Gb LAN | • N/A | • N/A |
| Wireless Upgrade • N/A | Wireless Upgrade5 buildings | Wireless UpgradeRemaining |
| Est Total for Year \$448k (before E-Rate) (167k) Est. E-Rate | Est Total for Year \$410k (before E-Rate) (108k) Est. E-Rate** | Est Total for Year \$443k (before E-Rate) (0) Est. E-Rate** |

2018-19 Cost Summary

| Fund | Capital Need |
|-------------------|---|
| Ed | \$650,000 Projected - \$572,000 (defined) |
| O&M | \$448,000 Projected (Year 1 of Network Refresh) |
| Offsets | \$205,000 (Technology Service Fee) \$167,000 (E-Rate Category 2) |
| Total/Net Amounts | \$1,098,000 (before offsets) \$ 893,000 (after Technology Service Fee) \$ 726,000 (after E-Rate Category 2) |

Budget by School Year, and Fund



Next Steps

- Approval to move forward
- E-Rate bid process (time sensitive)
- Continue to refine estimates / needs
- Seek BOE approval of 2018-19 Technology Plan

Questions / Feedback