

Information Technology Growth and Capital Needs Proposal Summary



Infrastructure Future Needs

- Wiring infrastructure upgrade
- Increased bandwidth to 40GB capability
- New schools need to include fiber, switches, phones, wiring, wireless
- Wireless upgrade 6-8 years into future
- Operational systems to be updated/sustained in order to prevent security issues on the D20 network
- Fiber to Edith Wolford
- Fiber to SITW and SITW ShoreTel Implementation

Systems/Applications Future Needs

- Oracle ERP is end-of-life
- CMS/LMS district supported system
- Electronic Record Archival

What you may hear from schools

- Flexible learning environments
- Mobility = the need for charging stations

Information Technology

Growth and Capital Needs Proposal 2016

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Academy District 20 Chief Information Officer



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Thanks to the 2001 bond...

- New Schools (DCC, CTE, RCES, TdVA)

Includes all WAN, LAN connectivity, Computers, peripherals

- Tech Center Construction 2002-2003



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Thanks to the 2001 bond...

- Network Connectivity and Hardware upgrades
 - SAN (1.7TB)
 - Wireless Network
 - Firewall Upgrade
 - Phone System



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Thanks to the 2001 bond...

- Enterprise Software Systems
 - Web filtering software
 - Oracle PO document archival (170 Systems) implementation
 - The Library System (TLC) implementation
 - Student Information System (Infinite Campus) implementation
 - Active Directory/Exchange implementation

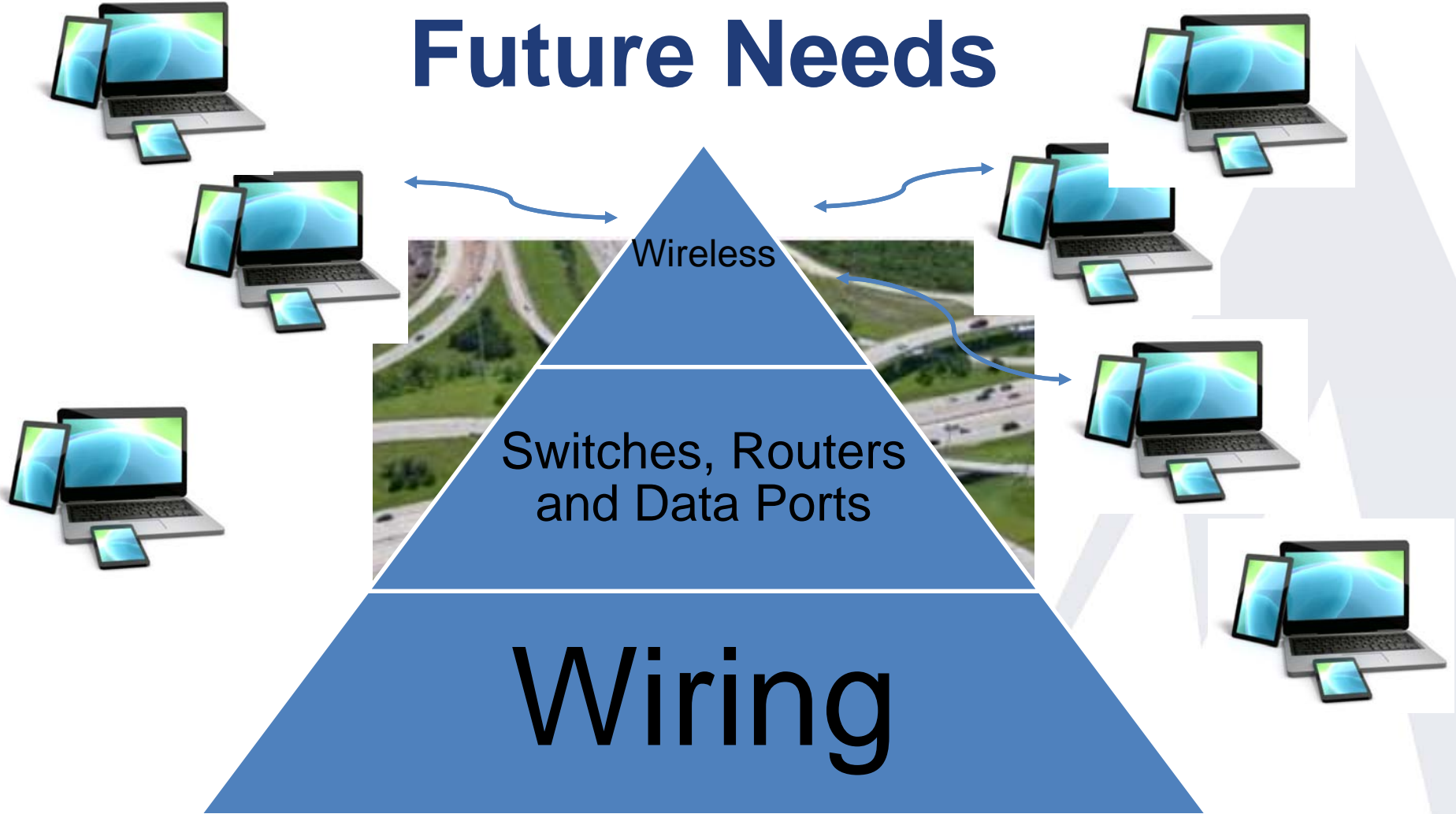


Information Technology Future Planning and Needs

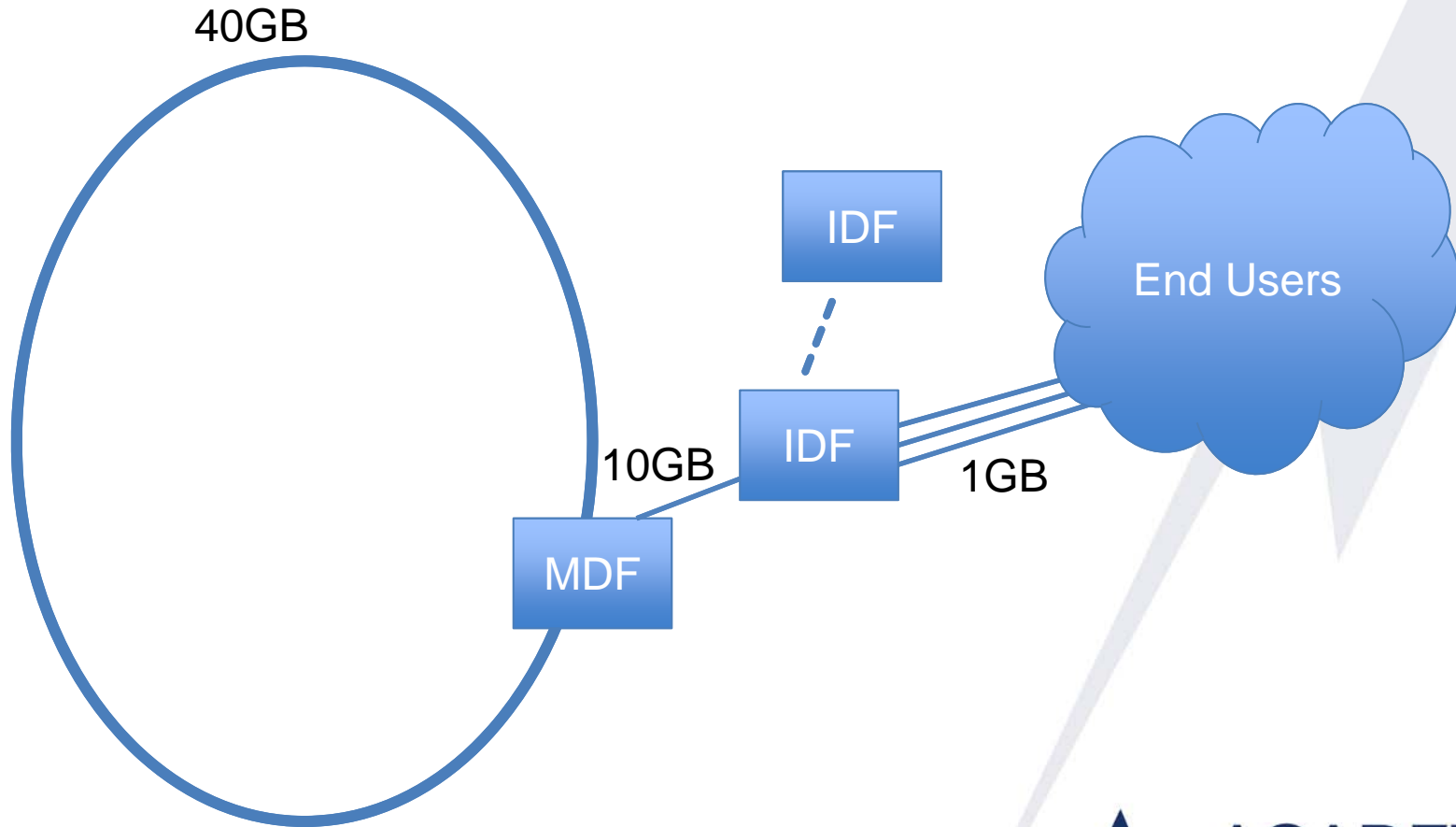


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Future Needs



Simplified Sample School Configuration



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Infrastructure Future Needs

- Wiring Infrastructure

Estimated Cost:
\$4.6 Million

Number of updated
wiring drops: **8406**

Site	Priority
AAHS	1
CMS	1
DVE	1
FES	1
FHE	1
HPE	1
LHS	1
PES	1
RRES	1

Site	Priority
AES	2
AIE	2
ATE	2
EES	2
MRMS	2
PHE	2
RHS	2
TMS	2
WRE	2
Transportation	2

Site	Priority
EMS	3
PCHS	3

Site	Priority
AVHS	4
D20 Stadium	4
EPP	4
Facilities	4
SITW	4
Warehouse	4

Site	Priority
EAC	5
AVMS	5
CTE	5
DCE	5
DCH	5
DCM	5
EWE	5
MVE	5
RCE	5
TdVA	5



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Infrastructure Future Needs

- **Increased bandwidth (40GB)**
 - Core Network Switches
 - Switches and Routers at Schools/Sites
 - School/Sites Data Ports upgrade to 1GB PoE
 - Firewall upgrade

Estimated Cost: \$3.5 Million



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Infrastructure Future Needs

- New school estimate:
 - **Fiber**, Wireless, Cable, Phone, Switches
 - ES – Estimated at \$300,000
 - K-12 – Estimated at \$700,000
- Wireless Upgrade within next 8 years (802.11 AC with 1 Access Point per classroom)
- Operational systems need to be updated to prevent security issues on the D20 network.



Infrastructure Future Needs

- “Internet of Things” or Operational Systems that are connected to the District 20 network must be updated to prevent security issues on the D20 network.



Infrastructure Future Needs

- Fiber to Edith Wolford
- Fiber to SITW and SITW ShoreTel Implementation



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Which system will serve our staff and students best?



Proactive

Reactive



Systems/Application Future Needs

- Oracle Enterprise Resource Planning (ERP)



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Systems Future Needs

- Content/Learning Management System

A **content management system** (CMS) is a computer application that allows publishing, editing, modifying, organizing, deleting, and maintaining **content** from a central interface.

A **learning management system** (LMS) is a software application for the administration, documentation, tracking, reporting and delivery of electronic educational technology (also called **e-learning**) courses or training programs.

Parents are becoming increasingly frustrated with multiple access codes/user accounts for each student. Applications must integrate with IC user credentials.



Systems Future Needs

- Student Record Archival



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Infrastructure Future Needs Summary

- Wiring Infrastructure
- Increased bandwidth (40GB)
- New schools (to include fiber, switches, phones, wiring, wireless)
- Wireless upgrade
- Operational systems need to be updated/sustained to prevent security issues on the D20 network.



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- Oracle ERP is end-of-life
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