

Long Branch Public Schools

TECHNOLOGY PLAN

Digital Schools 2021



TOGETHER WE RISE

The Technical 12

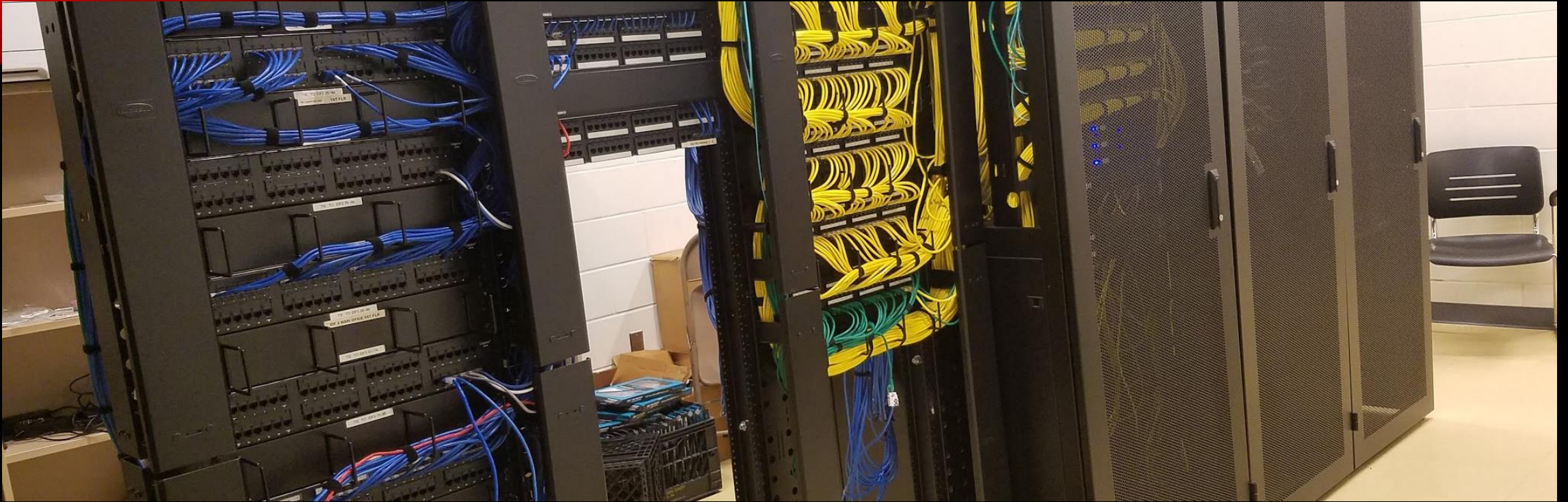


- Technology Director
- Head of Technical Services
- Technology Secretary
- 1 Network Administrator
- 1 Systems Administrator
- 4 Technical Support Field Specialists
- 2 Audio/Video Technicians
- 1 Communications Technician

THE TEAM GROWS STRONGER



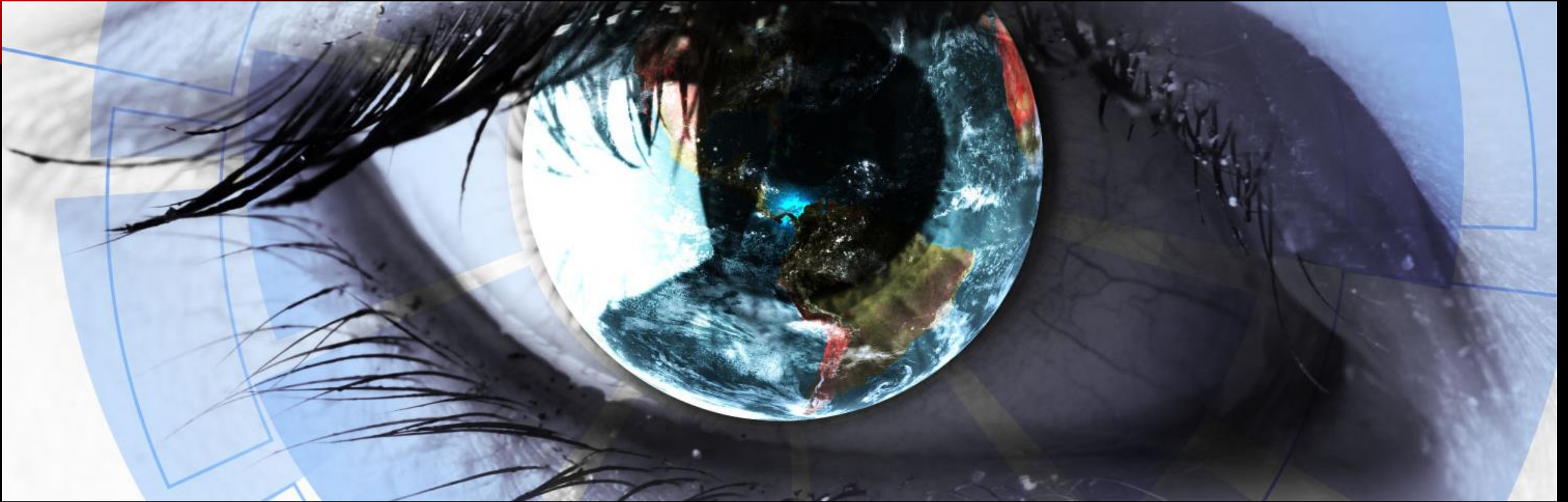
- 2021 - 2024
 - Plans to expand the roles of the Technology and Distant Learning Advisors inside schools are being reviewed
 - Plans to integrate the roles of the Technology Education Specialists more into the Technology Department are being reviewed



THE CORE OF IT ALL

A vast and robust enterprise class infrastructure

- * Dual Cisco 9300s with separate and redundant routes of fibers throughout the city feeding all of our schools and city locations
- * Dual power supplies on all critical networking equipment, battery backups, & whole building generators assure power at all times
- * Well over 1 million dollars in wired and wireless infrastructure equipment (Over 7000 data ports and over 550 wireless access points)
- * 5gbps Primary Internet Connection with a 1gbps Secondary Internet Connection on a different circuit through a different vendor
- * A Hyper V Virtual Server Farm



THE FUTURE OF SPEED

2021 – 2026

- * Over \$950,000 of E-Rate money has been awarded to the district for our next 5 year block
 - * 10 Cisco switches will be replaced at our Board Office in Fiscal Year 2021
 - * Plans for school infrastructure upgrades and equipment upgrades are underway for Fiscal Year 2022 & beyond

THE WATCHFUL EYE

- 2 redundant Cisco enterprise class firewalls
- 2 redundant content filters
- Comodo Enterprise Anti Virus & Network Protection on all clients
- Network policies to assure data privacy
- Daily offsite backups keeping our data safe



THE VOW OF PROTECTION

2021 - 2024



- Content Filter hardware & software upgrade
- Firewall Upgrade
- Website Approval/Denial Committee



BUDGET

SHOW ME THE MONEY

- The overall Technology Budget for 2020-2021 was \$1.7 Million
- Tens of thousands of dollars were saved by utilizing state contracts and performing in house installations

FUTURE FUNDS

2021 – 2024

- * Working closely with the Business Office on devising a way to fund nearly $\frac{3}{4}$ of a million dollars for additional video security in buildings currently without any or sufficient coverage

- * Working closely with the Business Office on devising a way to upgrade our phone system software to include 911 room locations services while upgrading 3 buildings to be “on network” phone systems



COMPUTERS



Building Controls

- Remotely accessible HVAC controls for all buildings
- Real-time monitoring of burglar and fire alarms with text message alerts
- Real-time monitoring of boilers and temperatures with text message alerts

Networking

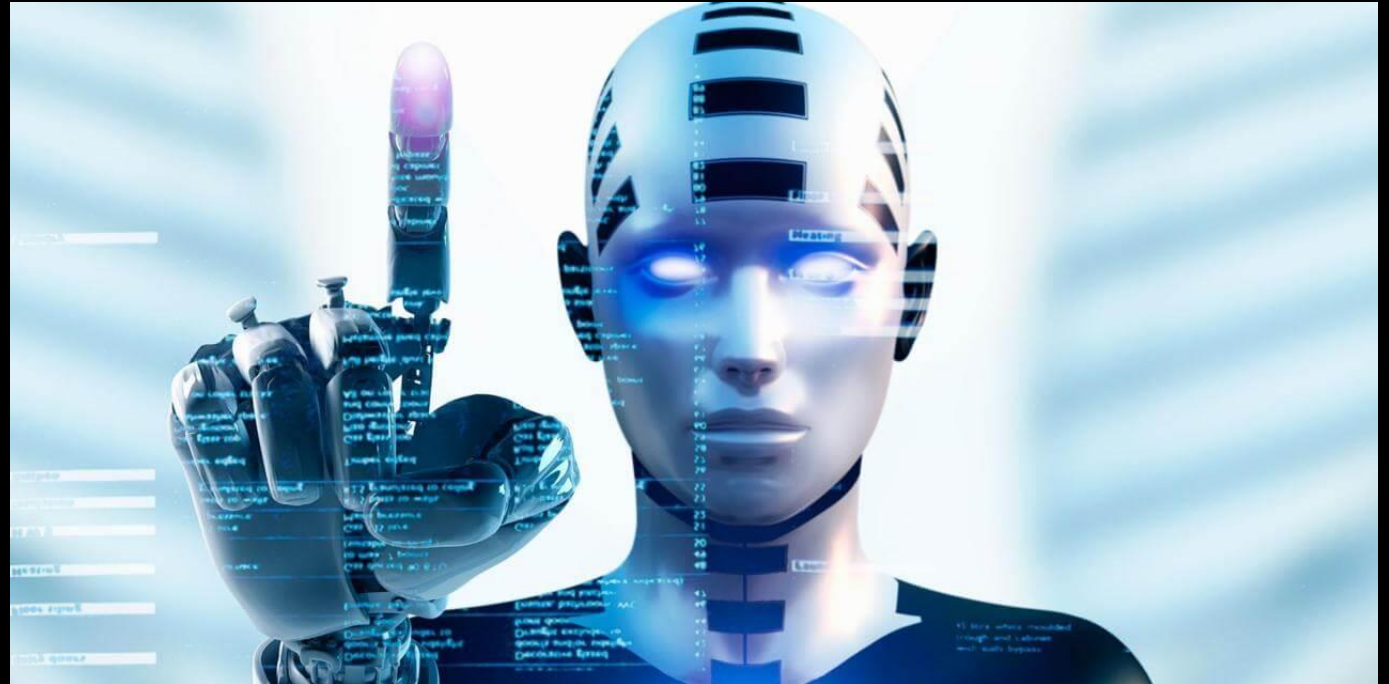
- Over 700 pieces of equipment and server processes monitored real-time with text message and email alerts
- Active daily programmed routines set to run to shut inactive computers down to preserve energy

Backups

- Nightly incremental backups copy data offsite
- Weekly full backups copy data offsite

THE COMPUTER VOICES GET LOUDER

- 2021 – 2024
 - Our monitoring systems will grow to cover more equipment
 - Our backups will be adjusted accordingly based on software that is moved into the cloud
 - Our policies and content filters will continue to adapt to current needs



[illegible]

- Every school is equipped with an on-network phone system allowing for 5 digit dialing between buildings without incurring phone charges
- Over 350 4g LTE Sonim phones equipped with push-to-talk on AT&T's FirstNet network have been handed out for security and communication
- 3 schools house critical Police Radio Equipment

NEVER LOSE TOUCH

2021 – 2024

* 2 support buildings are slated to get equipped with IP Telephones connected via wireless bridges that tie into fiber equipped buildings nearby, thus reducing POTS lines and lowering phone bills.



PHYSICAL SECURITY AT THE FOREFRONT



- Over 1500 cameras
- Nearly 1000 access control cards
- Nearly 100 recording servers
- 3 governing software packages

KEEPING OUR FUTURE SAFE

2021 – 2024

- * 4 buildings are slated to have hundreds of cameras added
- * 6 buildings are slated to have dozens more access control points added
- * All buildings are slated to have their software migrated to the new district standard



WHO IT'S ALL FOR & THE BENEFITS THEY RECEIVE



Over 5800 students have a plethora of technology at their fingertips

- * Chromebooks, iPads, Tablets, Laptops, Chromeboxes, countless software packages, 3D printers, TV Studios, engineering hardware and software

Nearly 1000 staff members

- * Teacher stations, wireless slates, audio systems, wireless mics, laptops, Chromebooks, projectors, printers, scanners, response systems
- * Personnel, budgeting, transportation, student information, reporting, crisis, special education, inventory, presentation, and management software

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THE BEST IS YET TO COME



- 2021 – 2024
 - Nearly 5000 Chromebooks are slated to be replaced
 - 2 schools are slated to receive brand new teacher stations
 - 1 school is slated to have all teacher stations imaged to the newest version of Windows 10 with Solid State Drives and double the RAM being installed
 - Expansions, revisions, additions and deletions to current online software

TOGETHER WE CAN

LONG BRANCH PUBLIC SCHOOLS

"Together We Can, Juntos Nós Podemos, Juntos Podemos"

2021

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Michele Critelli, Ed.D.
Armand R. Zambrano, Jr.
Donald C. Covin
Caroline Bennett
Lauren McCaskill
Violeta Peters



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2021 LONG BRANCH BOARD OF EDUCATION



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