

Putnam Valley Technology *2021-2022*



January 7, 2021
Michael N. Lee, CIO

“The best preparation for tomorrow, is doing your best today.”

-H. Jackson Brown, Jr.

Life in 2020 🤒

Google Workspace



- Professional Development

- Preparing for Remote Learning
- Parent Tech Info Workshop (English and ENL)
- Superintendent Conference Day Tech Support
- Drop-In Virtual Live Sessions
- Best Practices in Remote Learning / Any Topic

Remember this?

From last year's presentation:

- Classrooms everywhere are more connected
 - The system is the network
 - Upgraded infrastructure to meet future connectivity needs

Who knew the future was going to be 2020?

Compare Usage

*COVID Year = 2020-2021 school year so far to keep measurement period the same

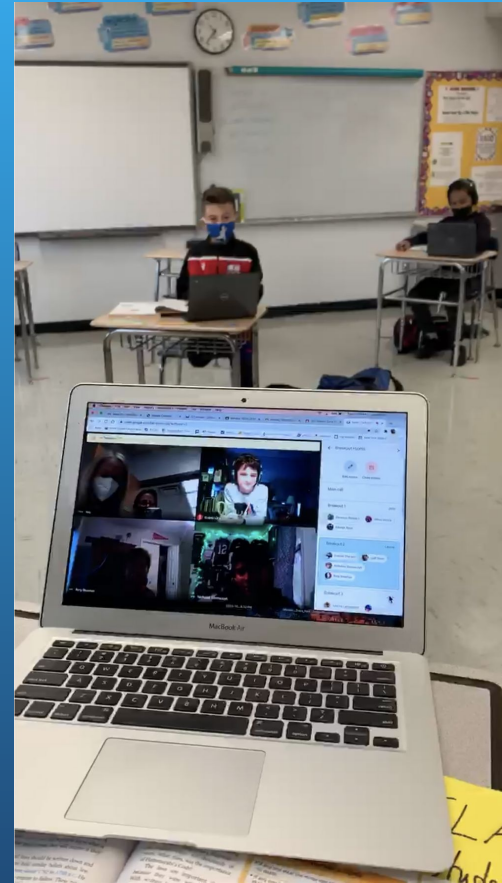
Pre COVID	COVID
Google Classrooms Created: Around 500	Google Classrooms Created: 837
Documents Shared: 73,044	Documents Shared: 542,798
Google Docs: 67,497	Google Docs: 170,843
Google Slides: 10,275	Google Slides: 82,832
Google Sheets: 3,715	Google Sheets: 7,577
Google Forms: 1,268	Google Forms: 3,474
Google Drawings: N/A	Google Drawings: 1,108

Year of Firsts

- Complete Deployment
 - All Devices (K-12) remotely deployed
- Helping the Community
 - Providing Internet to households in need through Altice (Optimum)
- Google Meet
 - Average of 1,100 users on Google Meet daily
 - Number of Teacher/Staff hosted Meets: 43,547
 - Teachers/Staff collectively spent 3.8 years in Meet
 - Each Meet lasts an average of 45.8 minutes

Bandwidth Use

- Pre Covid:
 - Around 270 Mbps
- Current Average:
 - Around 685 Mbps



Tech: Internal Growth and Contributions

Improvements that help the temporary “new normal”

- QR Codes everywhere
- Custom built COVID dashboard
 - Comparable app, minimum \$5,000
- Streamlined internal processes
 - Rapid Laptop Deployment & Retrieval Capability at the ES
 - Rapid Laptop / Chromebook turnaround in all buildings
- Develop in-house “operations” capability
 - Fire / Security / Access Control
 - Reduce dependence on outside companies

Infrastructure Highlights

Working Closely with Operations

- High School
 - Replace Fire Alarm System
- MS Renovation
 - New PA System & Speakers
 - New Access Control
 - New A/V in Cafeteria
- Wellness Center
 - Dedicated data closet
 - New PA System & Speakers
 - New Access Control
 - New A/V

Staffing 2021-2022

- 1 CIO
- 1 Media / AV Tech Support Specialist
- 4 District Computer Specialists
 - 3.4 FTE
- 1 BOCES Junior Computer Specialist (required for aid)
 - 1.0 FTE (aidable) (Welcome Ed Nowicki, PV Alumni)

Support over 2650 laptops, 615 Chromebooks, 200 printers, 230 iPads, 110 projectors, 75 smart boards, 22 Interactive Displays

Overview of Expenses

- Network and Server Support Agreements
 - Internet Connection
 - Content Filter
 - Network Equipment
- Staff Attendance
- Professional Development
- State Reporting
- Test Scoring
- Financial System
- Security System
 - Cameras
 - DVR System
 - Access Control Systems

Overview of Expenses

- Printer / Copier supplies
- Projectors and Bulbs
- Interactive Displays / TVs
- Laptop Sleeves
- Spare Cables
- Spare Hard Drives
- Curriculum Software to support Remote Learning



Overview of Expenses

- Laptops / Chromebooks
 - Allocation TBD
- New construction / renovation equipment
 - Network Infrastructure
 - Security & Access Control
 - A/V Equipment
- Financial Details (preliminary)
 - BOCES IPA: \$250,000 @ 3.5% over 5 Years
 - (Installment Purchase Agreement)
 - 2021-2022 Budget Impact of IPA: \$56,000 (LHRIC Estimate)
 - Aid Ratio: 65%

Looking Forward

- To Complete
 - MS Renovation
 - ES Auditorium (A/V)
 - Wellness Center
- To Plan for (2023-2024)
 - New ESXi Hosts (for VMs)
 - New NetApp Storage
 - Purchase via BOCES IPA
 - No Budget-to-Budget Impact

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Thank You