



Assisting Residents with Digital Connectivity

Why and how we are doing this.



Growing Demand for Digital Equity

Online learning trends:



- **45,000** - The estimate of K-12 students who took an online course.
- **50%** - The percent of high schools classes delivered online by 2019.

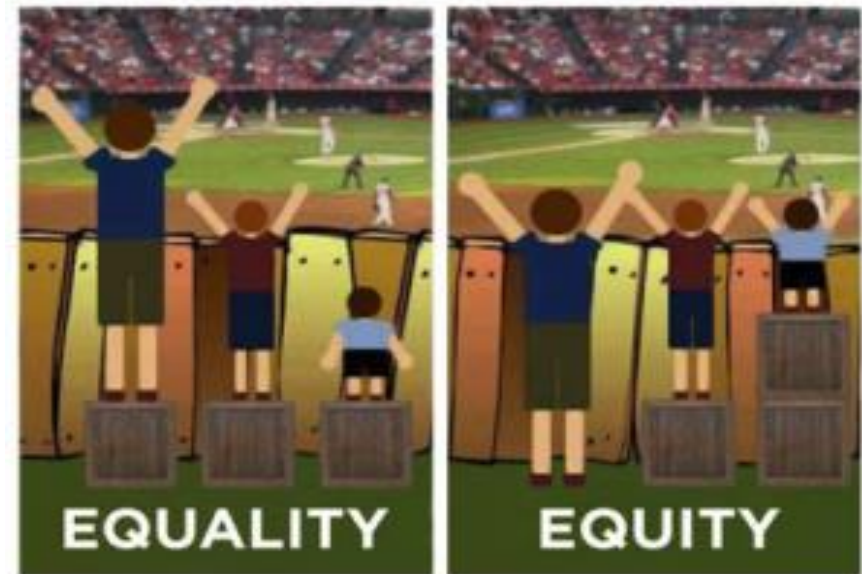
Digital Equity Challenges

Nearly \$4 billion/year

spent on improving
access in schools, yet:

5 million student households
lack high-speed access.

75% of school systems don't
have any strategies for
providing home
connectivity.



What we are doing.

- **Low cost site Wi-Fi**
- **Community Centers with Google chrome books**



Community Wi-Fi Systems

**Low cost and low
maintenance, site wide
WI-FI:**



Community Wi-Fi Systems

Access point pricing.

- **Open Mesh – \$95 - \$200 per access point free management**
- **Aruba – \$450 - \$800 per access point + management**
- **Cisco - \$800 - \$1000 per access point + management**



Community Wi-Fi Systems

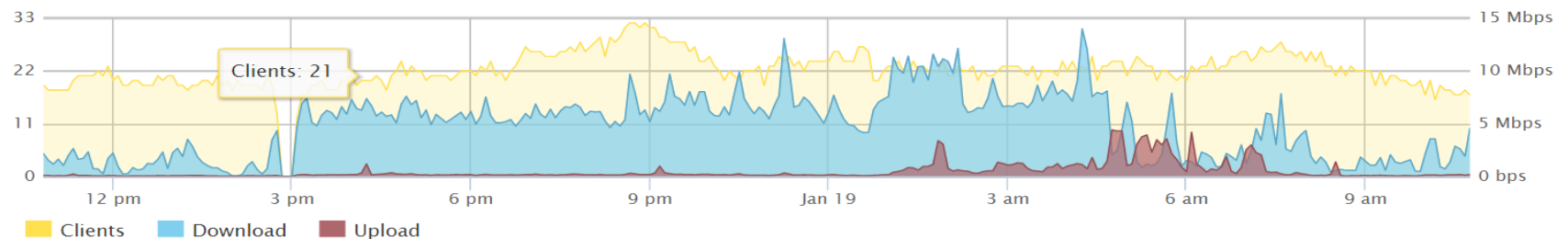
Reporting and trending

Usage

Total: 56.7GB (↓51.5GB, ↑5.2GB) / Clients: 53

Clients

Traffic







Top Applications

Description	Group	Total Usage
YouTube	Streaming Video	12.8GB
Misc Web	HTTP	12.3GB
BitTorrent	File Sharing	11.9GB
Misc Video	HTTP Video	10.7GB
UDP	—	3.5GB
TCP	—	1.5GB
Misc SSL Web	SSL	1.1GB



Top Clients

MAC Address	OS	Download	Upload	Total
Roku 2 HD - 284 CC:6D:A0:23:70:A5		21.1GB	307MB	21.4GB
tally 00:24:D6:B6:4E:87		9.4GB	3.6GB	13.1GB
BBDDH- GERHOME 6C:B0:CE:7A:A8:38		4GB	191.7MB	4.2GB
13-MacBook-Pro 4C:8D:79:E6:1E:34		2.8GB	63MB	2.9GB



Community Centers & Computer labs

- Low cost
- Low maintenance
- High security
- Cloud management

Google Chrome Operating System

1. Google Chromebook
2. Google Chromebox
3. Old out-of-date computers revived!



Google chrome
Operating System

Google Chrome OS Advantages

Low cost

- Avg. Chromebook \$150 - \$300
- Avg. Chromebox \$150 - \$200
- Google Chrome on old computers (HP, Dell, etc) Free or \$15 per year with the management.



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