

EMERGING TECHNOLOGY TRENDS



Agenda:

- *Bandwidth Growth*
- *Macro Level Technology Trends*
- *COVID Impact on Technology*
- *Future Technology Planning*
- *Additional Emerging Trends*

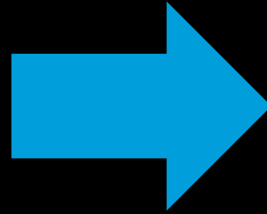
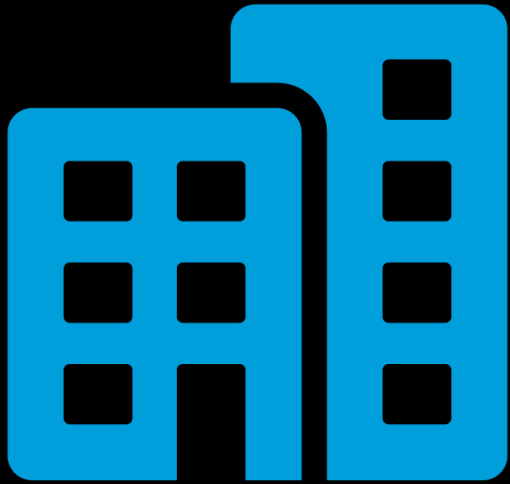
Bandwidth Usage Continues to Explode

Year	Global internet traffic
1992	100 GB per day
1997	100 GB per hour
2002	100 GB per second
2007	2,000 GB per second
2017	46,600 GB per second
2022	150,700 GB per second

Source: Cisco VNI, 2018.

Network Endpoints Have Evolved

THEN (physical buildings)



NOW (everything connected)



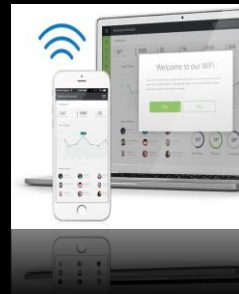
Macro Technology Trends

The **cloud** has changed connectivity/networking

93%

93% of businesses are using cloud technology in one form or another

The “**endpoint**” has changed.



There will be over 50 billion connected devices by the end of 2020

IP traffic is growing exponentially.

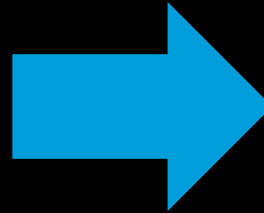
3x

Traffic to expand 3x by 2020

Impact of COVID19 on Technology Trends

Prior to COVID

- Customer Physical Interaction
- Growth in Online Presence
- Digital Marketing/Tracking
- Growing Security Concerns



NOW (Post COVID)

- Must have Technology Plan
- Digital Security
- Vendor/Partners
- Data Analytics

*A good **TECHNOLOGY**
strategy/planning
needs to consider...*

Applications and Usage

Cloud Strategy

Internet Access

Connectivity Transport

Security

Additional Emerging Trends in Technology



How business can succeed in the future....

- ✓ Technology Planning
- ✓ Agile/Flexible
- ✓ Digital Presence
- ✓ Online Security