

Next Generation Ethernet Passive Optical Network (NG-EPON)

Summary & Motion

IEEE 802.3 Working Group
Waikoloa, Hawaii
July 2015

❑ Increasing bandwidth

- Number of subscribers is still growing
- Applications becoming more bandwidth-hungry
- More Internet-connected devices per subscriber
- **Demand for access capacity is growing exponentially**

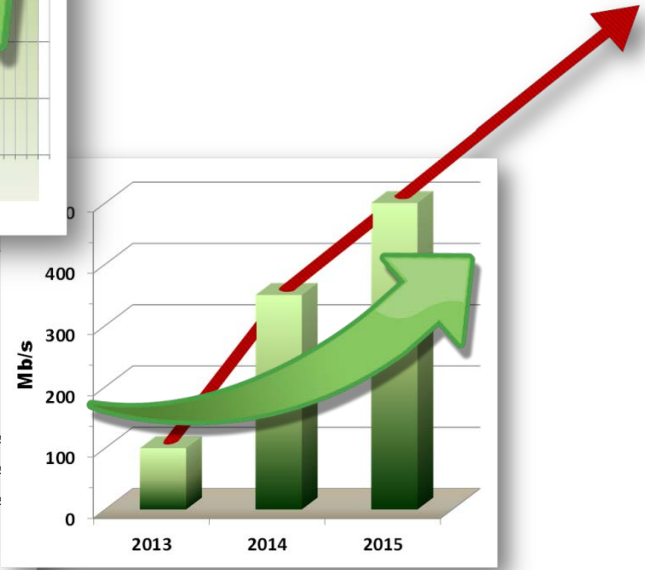
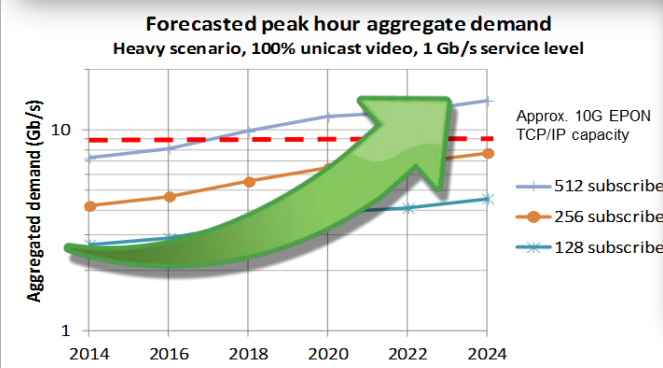
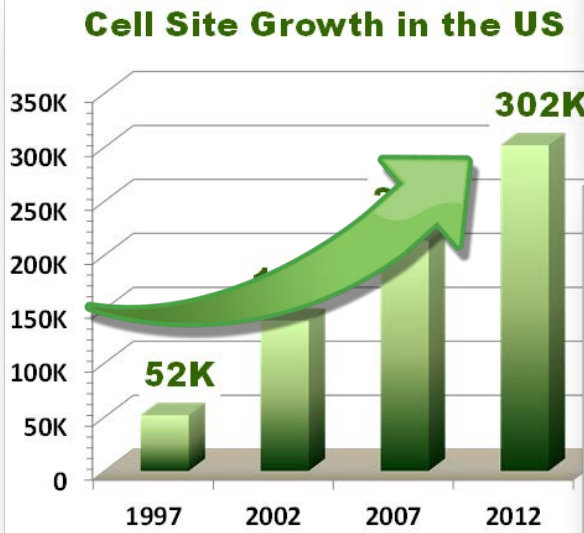
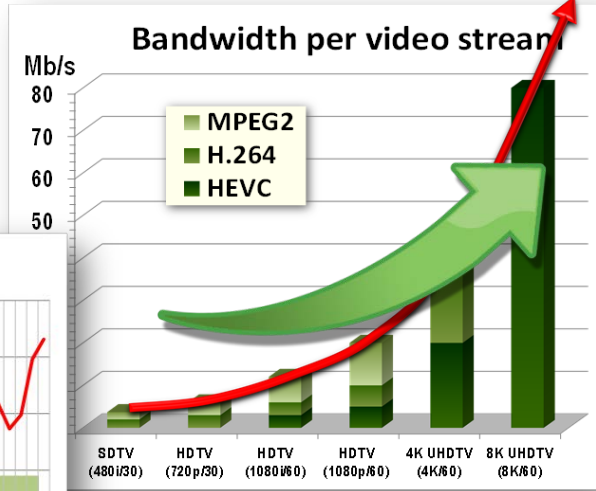
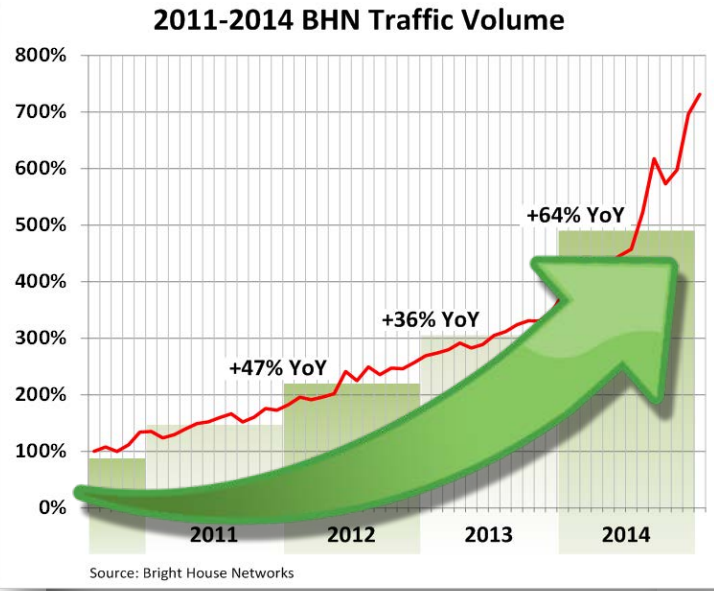
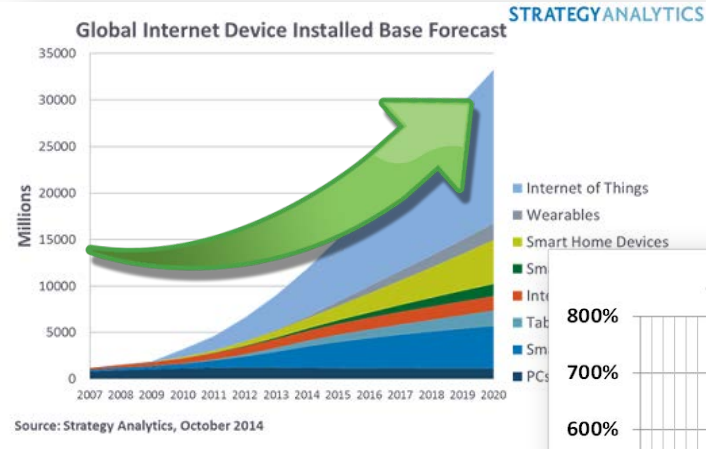
❑ 10G-EPON will reach its limits soon

- Bit rates greater than 10 Gb/s will be needed by 2018 for some applications
- **Now is the time to start working on next gen. access**

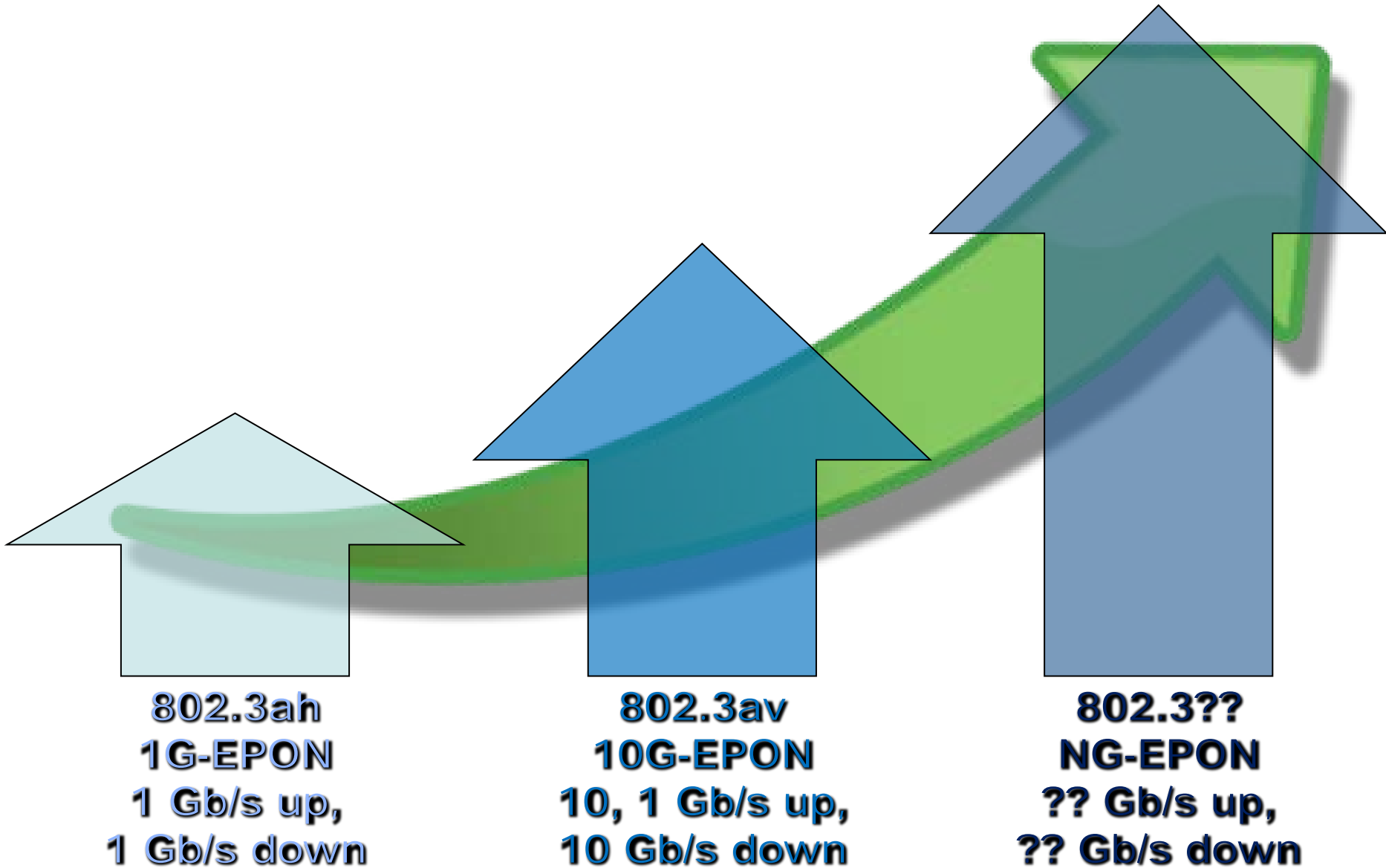
❑ What is needed

- 25+ Gb/s for residential and 40+ Gb/s for business access
- Converged access platform for business and residential
- Coexistence with previous generation(s) and gradual upgrade capability

Charts, and More Charts



NG-EPON: Next Logical Step



- ❑ Should a study group be formed to develop PAR, CSD, and Objectives for *Next Generation EPON*?

	All in the room	802.3 voters
Yes	43	35
No	0	0
Abstain	0	0
Room Count	53	

Straw Poll - Participation

- I would participate in a “Next Generation EPON” study group in IEEE 802.3**

Count: 26

- My company would participate in a “Next Generation EPON” study group**

Count : 21

- ❑ Form an 802.3 Study Group to develop Project Authorization Request (PAR), Criteria for Standards Development (CSD) and Objectives for ***Next Generation EPON***

Move:

Second:

	802.3 voters
Yes	
No	
Abstain	

Thank you!