

Broad Market Potential

Broad sets of applications

Multiple vendors and numerous users

Balanced cost (LAN versus attached stations)

- **Rapid growth of network and internet traffic has placed high demand on the existing infrastructure motivating the development of higher performance links. Quantitative presentations have been made to the IEEE 802.3 HSSG indicating significant market requirements across a wide range of applications.**
- **100 Gb/s IEEE 802.3 provides a solution for applications that have been demonstrated to need bandwidth beyond existing capabilities.**
 - **Examples include: providing interconnect & aggregation capabilities in data centers, internet exchanges and service provider peering points; serving growth applications such as video on demand; and as an interconnect for high performance computing environments.**
- **There has been wide attendance and participation across end users, equipment manufacturers and component suppliers. It is anticipated that there will be sufficient participation to effectively complete the standardization process.**
- **Prior experience scaling IEEE 802.3 across the range of 1 to 10000 Mb/s indicates that the cost balance between routers, switches, and the infrastructure remains roughly constant. 100 Gb/s Ethernet should continue this trend in the intended higher end application spaces.**
- **Given the topologies of the networks and intended applications, the early deployment will be driven by key aggregation & high-bandwidth interconnect points. This is unlike the higher volume end system application typical for 10/100/1000 Mb/s Ethernet, and as such, the anticipated volumes for 100 Gb/s Ethernet are more modest than the lower speeds. This does not imply a reduction in the need or value of 100 Gb/s Ethernet to address the stated applications.**