

Internet's 35th Anniversary - UCLA The Second Generation of IP

Dr. Lawrence G. Roberts CEO Anagran Inc. Iroberts@anagran.com October 29, 2004

Internet Issues Remaining

Broadband Access

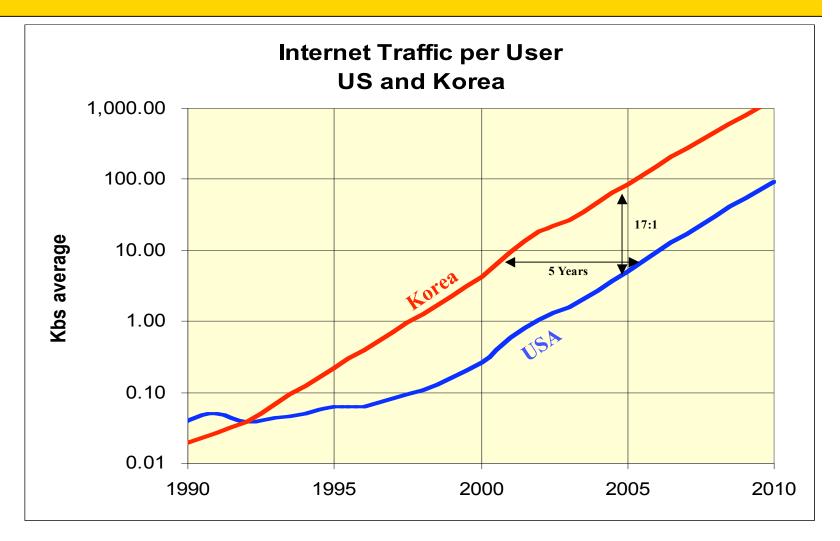
Equal Access with Over-subsubscription (P2P)

QoS for Video, Voice, Streaming

Security

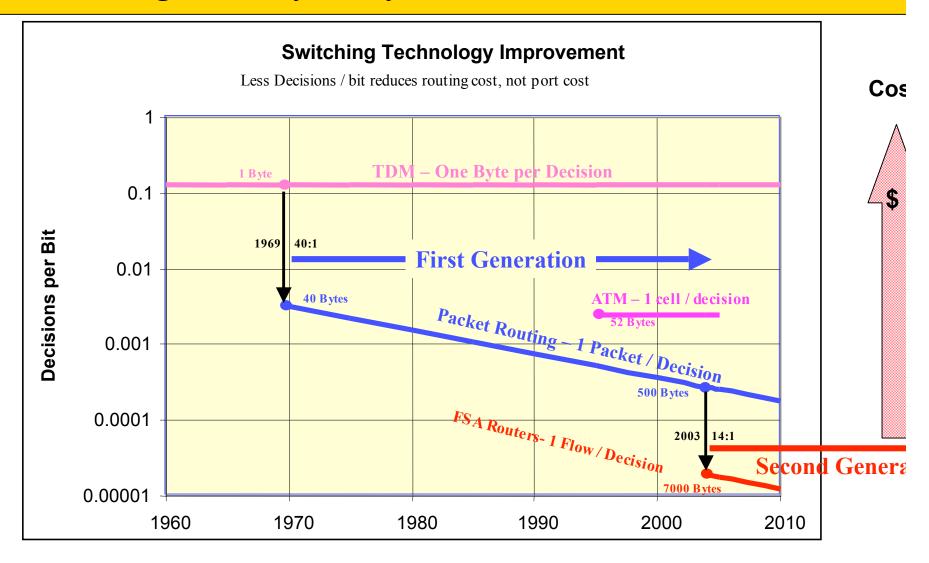


Lack of Broadband Access in US



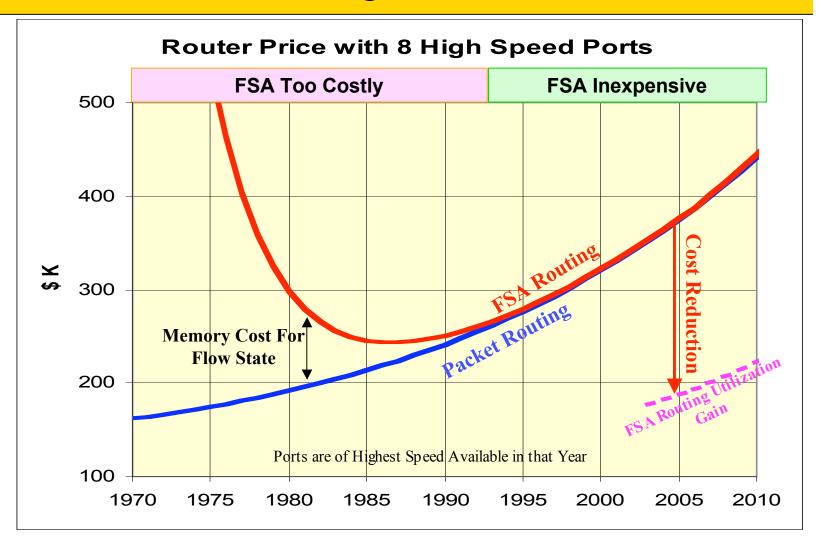
The US lack of broadband access has severally handicapped the US Internet market and slowed the development of applications like video education

Switching History – Byte, Packet, Flow



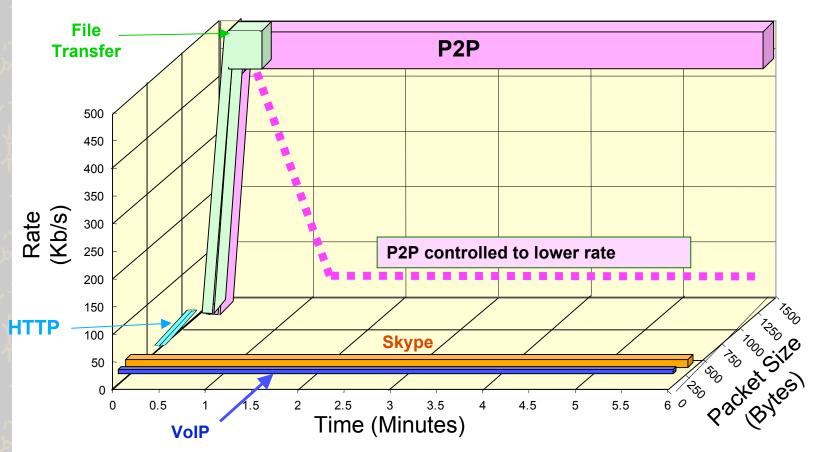


Economics of FSA Routing





Flow State Aware – Can Identify & Control



Dimensio

- Rate
- Total By
- Total Tin
- Packet S
- Port
- Protocol
- DiffServ

Controls

- Rate
- Priority
- Delay Va
- Loss Rat

Flow State provides information about each flow

This permits the router to identify the type of traffic over time

Enables control of the rate, delay, or loss allowed for that flow

