Long Term Technology Trends

Ever Accelerating Technology Advances
Challenge Technology Investment Decisions

Web 2

━━━━━━━━━Applications on Demand ➔

- Built on WWW High Bandwidth Infrastructure & Powerful Processor Technologies
- All Applications Internal and Web Based Migrating to Web 2 Architecture
- Continued Decreases in Communications Costs - Expanding Bandwidth
- Increased Migration to Wireless – Cell, Wi-Fi, Bluetooth
- Unification of Application Operation across platforms – Cell Phone, Hand Held, PCs

World Wide Web

━━━━━━ Access to Content on Demand ━━━━━

- Built on Scaled up Internet 0 Infrastructure
- E-Mail to Messaging to Interactive Content
- Decreasing Communications Costs - Expanding Bandwidth
- Wireless – Cell, Wi-Fi, Bluetooth
- Pushed Down Market – Now Ubiquitous

Internet 0

━━━ File Transfer ━━━

- Primitive Messaging
- Very Expensive - Low Bandwidth Communications
- Universities, Government, Corporations

Intel Core 2 (x64)
Multiple Processors (4)
820 Million Transistors

Intel Itanium 9150 (x64)
Multi Processors (2)
1.7 Billion Transistors

Intel Pentium (x32)
3.3 Million Tx

Intel Pentium 4 HT (x32)
Multiple Execution Paths
170 Million Tx

Intel 4004
2,300 Transistors

Intel 80286 (x8)
134,000 Transistors

Intel DX4 (x16)
1.6 Million Transistors

1970

2008