

Unleashing the Potential of Tomorrow's Applications and Devices

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Key Scenarios

Healthcare



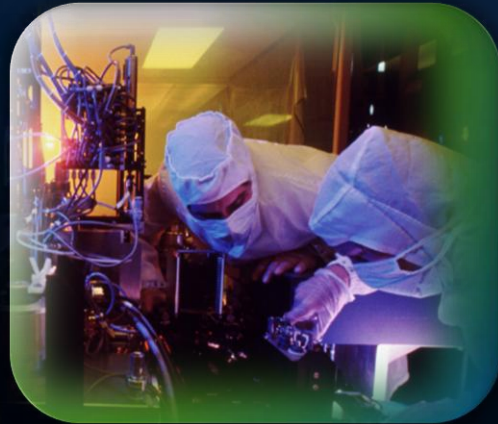
Education



Energy & Environment



Science & Engg. Innovation



Open & Transparent Govt





DOS



GUI



INTERNET



CLIENT+CLOUD



NATURAL
USER INTERFACE

CLIENT+CLOUD

COMPUTING
EVERYWHERE



CONTINUOUS
NETWORKING



Increasing
Abstraction



NEW DATA
MODELS



NATURAL USER
INTERFACE



MODELING
REPLACES
CODING

Four Form Factors

FIXED



PORTABLE



SPECIALTY



PHONES



WORKING AT
YOUR COMMAND



VS.

WORKING ON
YOUR BEHALF



Key Applications and Trends (2013/14)



Bandwidth

3D Movies using 1TB Blu-ray discs broadcast @ 256Mbps
Medical Imaging Centers generating 60TB/year
3D Rendering @ 64-128Mbps Quad HD resolution



Data and storage exceed the growth of broadband



Devices

>1bn WW Wi-Fi chips/yr in handsets, laptops and PDAs
>1 bn WW mobile bb subs in handsets & other devices
Providers constrained to fraction of 4G capability



Massive proliferation and demand for spectrum



Throughput

Less than 1/3 of US households passed by fiber
LTE initially projected to deliver avg 7-12 Mbps down
A household watching 12 hrs/week of HD video will consume over 200 GB/month



Deployment patterns and consumption caps evidence a growing digital divide



Quality of Service

Visual networking & telepresence @ 60 milliseconds
Telesurgery @ 1 millisecond



Latency-sensitive applications need to be accommodated

Broadband: Key Recommendations

- High-capacity wireline capacity premised on connectivity to anchor institutions, with “Interconnection” requirements enabling access into communities
- Increased access to spectrum based on real usage, and leveraging innovations in software & radio technology
- Universal service reform focused on high-capacity broadband and wireless deployment

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