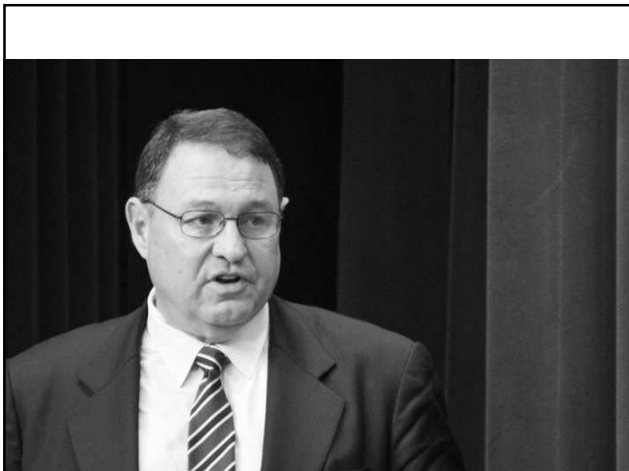
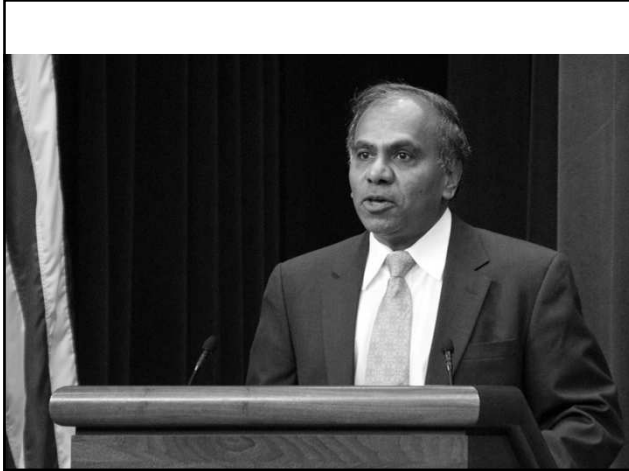


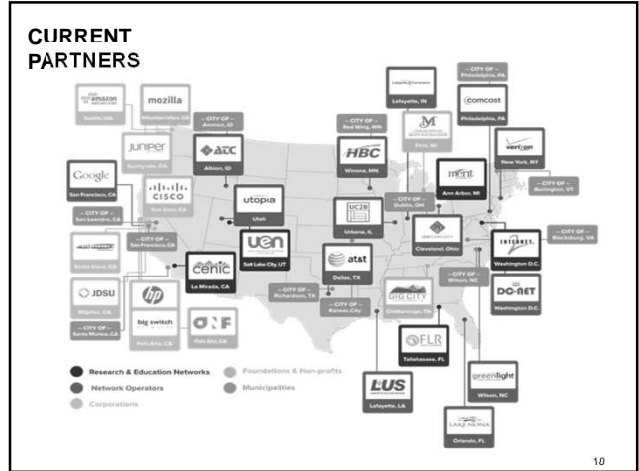
Tomorrow's Internet Apps
Glenn Ricart

**Public-private
partnership**

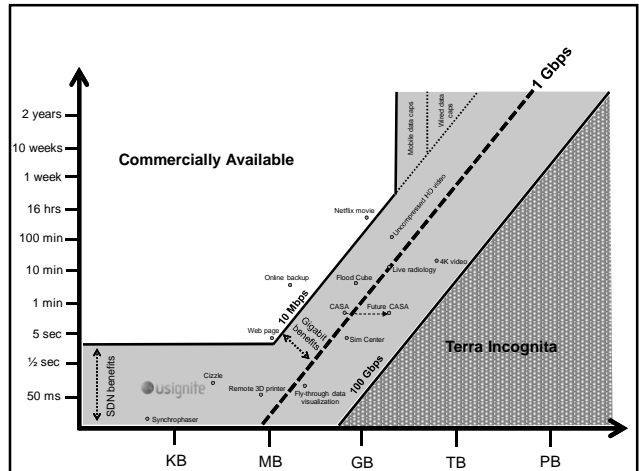
501(c)(3)

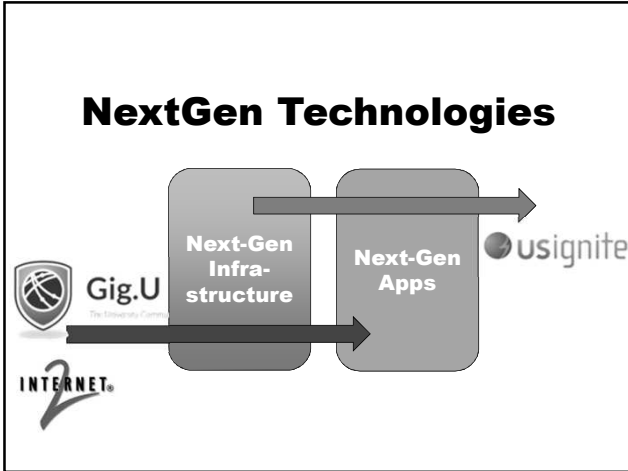






- ### TYPICAL APP CHARACTERISTICS
- Real-time (apparently instantaneous)
 - Very low latency
 - Reliable (no hiccups)
 - Cyberphysical interactions
 - Big data to the end user / anchor institution
 - Visual data exploration (“fly-through”)
 - Collaborative (in the moment)
 - Distributed
- 11

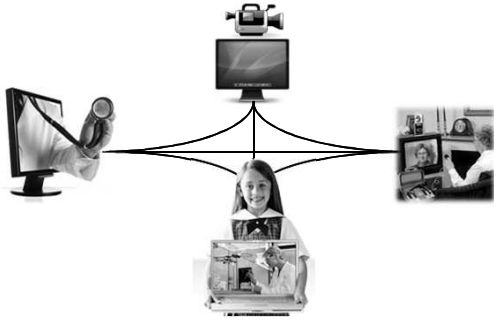




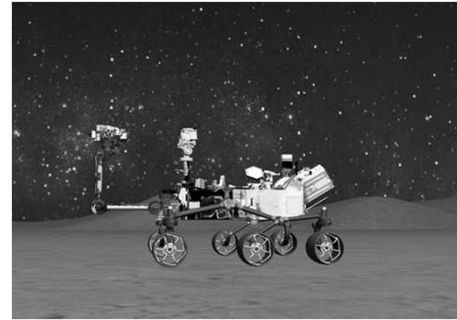
US Ignite Applications Summit

- [Video](#) (YouTube)
- [Video](#) (Glenn's machine)

Connected Collaboration



Cizzle

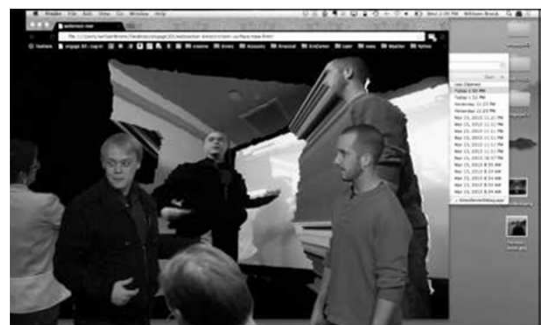


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Public Apps Library

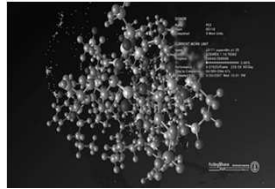


Engage3D



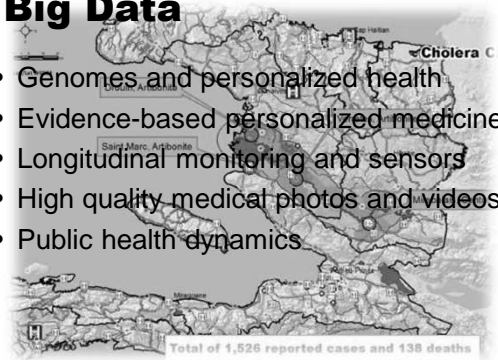
20

Virtual Community Supercomputer



Big Data

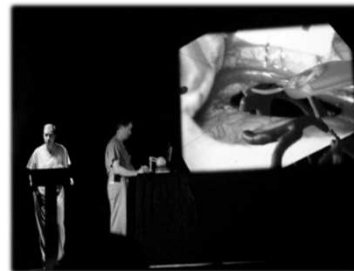
- Genomes and personalized health
- Evidence-based personalized medicine
- Longitudinal monitoring and sensors
- High quality medical photos and videos
- Public health dynamics



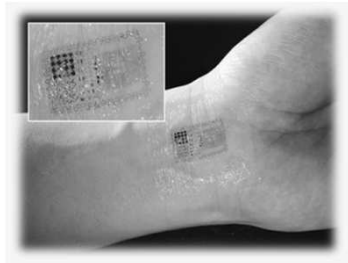
Remote Radiology



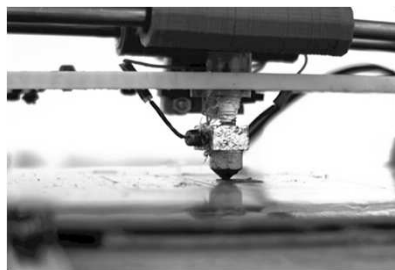
Remote Surgery



Personal Sensor Networks

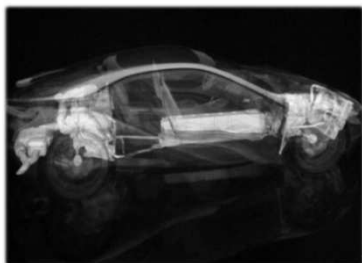


Reliable Process Control



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Collaborative Design



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CASA Radar



Phasor Measurement Units (PMU) in the Western Interconnection

Synchrophasors

Legend

- Phasor Data Concentrator (PDC)
- Networked PMU - Multiple PDC
- Networked PMU - Single PDC
- PMU Not Networked
- Desirable future PMU
- Desirable future PDC
- Networked PDC

OpenPMU.org

SimCenter

VIDEO: us-ignite.org/Chattanooga-story

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PlanIt Impact

COOL ROOFS
OFFSET 1% OF COOKING LOAD AND REDUCE THERM ENERGY CONSUMPTION BY APPROXIMATELY 12000 BTU

ENERGY EFFICIENT REFRIGERATORS, ENERGY PROVIDES 14 COOLING HOURS AND 24 NEW JOBS

GREEN SPACE
ENHANCES 10000 GALLONS OF WATER FOR YEAR FROM STREAMS AND RIVERS

STREET TREES PROVIDE SAVINGS IN ENERGY OVER THEIR LIFETIME

1 Year Goals

Google Earth

- [Applications Summit](#)
 - [WiRover](#)
 - [In-Home Health Alert](#)
 - [Simulation-as-a-Service](#)
 - [Real Time Emergency Response](#)
 - [CIZZLE](#)
 - [CASA](#)
 - [SimCenter](#)
 - [Smart Grid](#)
 - [Chattanooga](#)
 - [Burlington](#)
 - [FitNet Health](#)
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