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“CyberTrust – a new mantra”
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Project Libra: Optimizing Individual & Public Interests in Information Technology
Technology Pull

• *Andrew, and many other infrastructure projects, were pursued on the “Build it, and they will come.” principle.*

• *Libra should run with extensive, structured community input.*
  – Sometimes they don’t come, don’t use, or rebel.
  – More intimate, intrusive technology than just computing.
  – Our students should see themselves as choosers, not victims or soldiers.
  – The world needs a better understanding of how communities can shape their communications environments.

• *Technology is now a buyers’ market.*
  – Moore’s Law
  – “IT doesn’t matter” (HBR, May 2003)
  – Wireless, 3G, 4G, Video, Sensors, etc.
Difficult Choices Lie Ahead

• Trends in information technology
  • Mobility
  • Personalization
  • Location awareness
  • Passive observation
  • Biometrics

• Result in unprecedented opportunities to collect, store and transfer information about individuals for
  • Personal benefit
  • Public safety
  • National defense

• And the potential to diminish our privacy and civil liberties
Create a Living Laboratory to Gain This Knowledge

• Based on
  – Next generation information technology
  – Communities that use prototypes of the technology

• Conduct multi-disciplinary research to identify
  – Policy making processes that result in *rational balance points*
  – Elements of desirable policies
  – Technology capabilities that protect privacy and/or enhance safety
  – Acceptability and utility of specific safety-enhancing, privacy-compromising technologies
Security and Availability Will Be the Drivers

• The current internet is vulnerable
• Points of potential vulnerability
  - Service protocols
  - Commercial arrangements
  - Old software
  - Hard to design security in after the fact
Digital Rights Management (DRM)

- Lots of “we hate it”
- Lots of ban it
- What is it?
- Why might we actually learn to love it
Privacy Rights Management

• The global data about me
• Who will look at it?
• Who will use it for what
• Accountability
Can software alone do the job

- Software is vulnerable - millions
- Hardware is needed
- Distributed “trust”
My favorite quotes

• They that can give up essential liberty to obtain a little temporary safety deserve neither liberty or safety – Ben Franklin 1784

• The Net interprets censorship as damage and routes around it -- John Gilmore