“Unfinished Business on the Internet”

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Vice President and Chief Internet Evangelist, Google;
A “Father of the Internet”
The Original ARPANET

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The ARPANET IMP

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NSFNET
Internet Now

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Unfinished Business

• Multi-stakeholder Policy Development
  • ICANN (!), Internet Society, Regional Internet Registries, Domain Registries and Registrars, WSIS (MDGs), IGF, NetMundial 2014…
  • Safety, Security, Privacy, Reliability, Interoperability (One Net!), Freedom of Access and Expression

• Transnational Agreements
  • E-commerce and Digital Signatures/Contracts
  • Cooperative Legal Regimes
Unfinished Business (2)

• People-Centered Internet Developments
  • Affordable, Accessible, Useful Local Content
  • Climate-friendly to Private Sector Investment, Competition and User Choice
  • Foci: Education, Health Care, Network-facilitated Work, Domestic and International Trade
  • Global Connection Initiative(s)
  • Sustainable Local Technical and Business Operations
Unfinished Business (3)

• Technology Development
  • Reliable and updateable software
  • Strong, End-End Authentication
  • Confidentiality and Privacy Protection
  • IPv6 Address Implementation
    • Internet of Things, Cyber-Physical Systems, Mobiles
  • Long-Term Digital Preservation
  • Stable Identifier Systems (Beyond Domain Names)
  • Broadband Wired and Wireless Access
Unfinished Business (4)

- Internet of Things (Cyber-Physical Systems) and AI/ML
  - Reliability, Safety, Privacy, Security, Interoperability, Autonomy
- Misinformation, Disinformation, Critical Thinking
- Consequences of Malware and Buggy Software
  - Reliance on Software to Make Autonomous Decisions
  - Self-driving Cars, Self-flying Drones, Robotics
- Ethics and Software-based Systems
- Digital Literacy
End-to-end information flow across the solar system
Layered architecture for evolvability and interoperability
IP-like protocol suite tailored to operate over long round trip light times
Integrated communications and navigation services
Key Messages

• Internet Invites Evolution
• Open Access, Standards and Applications Foster Growth
• Reinforcing Transnational Public Trust and Safety are Critical
• Enabling Entrepreneurship Should be High Priority