Panel Participants

Brian Voss, Retired CIO, University of Maryland

• David Gift, AVP Community Engagement
• Glenn Lipscomb, AVP Marketing & Communications
• George Loftus, AVP Network Services
• Steve Zoppi, AVP Services Integration & Architecture
Community Guide to Internet2

• Educational and Institutional Transformation and the role of Internet2
Community Guide to Internet2

• Translational Potential: Extending Internet2’s value to broader communities
• Globalization of Research & Education
Translational Potential – Extending Internet2’s Value Across Broader Communities

- 185 Level 1&2 higher education “core members”: Very High Research Activity – High Research Activity universities
- 49 Level 3 higher education members: Doctoral Research Universities, Large Master’s Programs, Special Focus Institutions (medical schools, medical centers), and University Systems offices (and 21 Level 4 higher ed members)
- 67 Affiliate Members
- 93,000+ Community Anchor Institutions served via US UCAN (fka SEGP)
- Innovation and services tailored to research and education expanding via 80 industry members
- Regional and international network ecosystem
- Strategic liaison with other relevant member organizations
Globalization of Research and Education

- Science, scholarship, education are boundary-less; students, faculty, campuses, collaborators in every time zone globally
- Large-scale, distributed collaborations depend on global infrastructure, data assets and federated cloud services
- Partnerships and peering agreements extend Internet2 members’ reach to >100 R&E networks around the world
- Rationalization of global networking for access and interoperability
Community Guide to Internet2

• Individual Empowerment: The New Expectation
• Trust Fabric: Identity and Security
• Virtual Organization: Prolific and Ubiquitous
• Mobility: The PC Has Been Eclipsed
The Community: Enumerated

- Internet2
  - Higher Education (254)
  - Affiliate (67)
  - Industry (78)
  - Research & Education Network (41)

- InCommon
  - Additional Higher Education (+200)
  - Additional Gov’t NonProfit, Research (+37)
  - Sponsored Partners (160)

- NET+ Services
  - 39+ @ Service Validation and Higher

Over 7 Million Individuals
Seamless Identity Management – Next Generation
Trust and Identity in Education and Research

Increasing bias toward Individual Identity, Individual Empowerment and the emergence of the Virtual Organization
The Proliferation of the Virtual Organization

- **People** have increasingly complex spheres of Association / Authorization
- **Data** and the **Resources** which access them are increasingly, **geographically diverse**
- **Statutory and Regulatory Requirements** (including Institutional constraints) regarding Data Stewardship are a global problem for Virtual Organizations.
- The **Global Network**, **Members**, **Services** and **Institutions** all participate in the **growing mesh** of Virtual Organizations
- **Trust**, **Identity**, **Security** and **Privacy concerns** and needs will continue to expand as opportunities to address for ALL members

Increasing Complexity drives the need for better solutions than those which stop at Enterprise Boundaries
With 7 Million Individuals …
… come 21 Million Devices

- The Internet of Things Brings Administration Challenges
  - Multi-Platform
  - Multi-Browser
  - Network Bandwidth
  - Device Certificates
  - Personal Identity Certificates
  - … and More
Mobility

• Challenges on Campus
• Proliferation of BYOD
  – On average, campus leaders report that students have 6 or more devices on campus
  – 76% of campuses do not have a BYOD or Wireless Strategy
• Security, Funding, Coordination
• Not a single aggregated approach for a mobility strategy for higher education
• Internet2 and the Community can take on these challenges together
Community Guide to Internet2

- Infrastructure Architectures driven by the virtualization and the merger of networks, storage and computation
- Big Data and the “Fourth Paradigm” Era Accelerates
Innovation Campus Pilot Sites
100GE – Science DMZ – Software-Defined Networking

(As of July, 2013)

Innovation Campus pilot site
Supporting research and education network

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Community Guide to Internet2

Navigating the Global Summit
Where Should I Go…

• If I am a CIO?
• If I am a Higher Ed member?
• If I am an Affiliate?
• If I am an Industry Member?
• If I have Global Interests?
58 Program Track Sessions
93 Working Meetings
1 Workshop
Key Events

• 3 General Sessions

• Welcome Reception at Denver Art Museum Monday, 7:00 PM

• Sponsor Showcase
Thank You Sponsors

- Visit the Exhibit Booths
- Industry Roundtable Sessions
- NET+ Service Provider Sessions
A New Era of Digital Communications

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• Internet2 Innovation Platform
• Internet2 NET+ Initiative
• Internet2 Research Support
• “Internet2 of Things” UEV/Dash Project Info
• Internet2 eduroam service
• Presidential Primary Sources Project stream + info (scheduled demos)
• NOAA weather briefings (scheduled demos; info)
• Selected Netcast Sessions
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QUESTIONS?

THANK YOU FOR JOINING US!

APRIL 6-10 DENVER COLORADO