

**InternetII**  
**A bluffer's guide to the Next Generation Internet Initiative**  
**Prof. Michael A. Keller, Stanford University**

**Internet II Mission**

- "Facilitate and coordinate the development, deployment, operation and technology transfer of advanced, network-based applications and network services to further U.S. leadership in research and higher education and accelerate the availability of new services and applications on the Internet."

**Partners**

- U.S. Government -- NSF, DOE, ARPA, NLM
- Industry
- 100 Universities
- more to be added in subsequent years

**Goals**

- Support of world-class research in U.S.
- Avoid congestion of commercial Internet
- Develop a new family of network apps
  - network management
  - multi-media incl. streaming video
  - real-time collaboration
  - hyper interactivity
- Technology transfer to broader community

**Basic Institutional Commitments**

- Establish broadband Internet connectivity on an end to end basis as soon as possible to support development, testing and use of applications.
- Participate at the executive level in overall management
- Contribute necessary financial support to the above activities and to the central management and administrative expenses (US\$500,000+)
- Create a project team to support the applications development & advanced network services objectives of the project.

**Internet II organization**

- Steering Committee Chair: Gary Augustson (Penn State)

- Applications Chair: Bill Graves (UNC)
- Engineering Chair: Greg Jackson (Chicago)
- Charter & Goals: Raman Khanna (Stanford)
- Organization Chair: Stuart Lynn (UC)

### **Internet II Staff**

- Project Director: Mike Roberts (Educom)
- Applications Lead: Ted Hanss (Univ. of Michigan)
- Administration: Heather Boyles (FARNET)
- Project Assistant: Mike Ward (Educom)

### **Finances**

- apx US\$50M - US\$100M from U.S.Gov--for r&d
- apx US\$50M per annum from members--for operations
- issue: who owns Internet II???

### **Technicalities**

- Internet
- Internet II
- ave 45MPS
- ave 622MPS
- open to all users
- open only to members
- local variation and inconsistency
- consistent function
- chaos & brownouts
- assured bandwidth

### **Internet II address: [www.internet2.edu](http://www.internet2.edu)**

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PRESIDENT CLINTON NAMES CO-CHAIRMAN AND MEMBERS OF THE ADVISORY COMMITTEE ON HIGH-PERFORMANCE COMPUTING AND COMMUNICATIONS, INFORMATION TECHNOLOGY, AND THE NEXT GENERATION INTERNET

### **Advisory Committee**

- Ken Kennedy, Rice -- co-chair
- Eric A. Benhamou, 3Com
- Vinton Cerf, MCI
- Ching-Chih Chen, Simmons College
- David Cooper, Livermore Labs
- Steven D. Dorfman, Hughes Corp.
- Robert Ewald, Cray & SGI
- Edward H. Shortliffe, Stanford

- Steven J. Wallach, H.P.
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- Hector Garcia-Molina, Stanford
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- W. Daniel Hillis, Disney Corp
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- Leslie Vadasz, Intel
- Andrew J. Viterbi, Qualcomm

"He who tried his best and failed is far superior to he who never tried at all."