Next Generation Internet (NGI) Initiative

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Vision for NGI

Allow researchers to live in the future, developing and experiencing technologies and benefits of very advanced networking

Vision for NGI

- Long-range research to develop and test advanced network technology

- Test beds of sufficient scale for
  - Technology scaling issues
  - Critical mass for applications

- Important government-interest applications to
  - Test advanced network technology
  - Demonstrate value of advanced networks

- Partnerships to conduct research and to transfer technology for future commercial Internet

21st Century Applications

Network Uses	Application Examples	Rqmts
Teleoperation	Telemedicine, Distance Learning, Telescience	1 Gbps
Virtual Reality, Visualization	Battlefield awareness, Virtual Aerospace environment, Engineering	155 Mbps-1 Gbps
Collaboratories	Chesapeake Bay virtual environment, Materials collaboratory	155 Mbps/link
Network Research	Intelligent Assistants, Optical Nets, Systems of systems	10 Gbps
Distributed Data and Digital Libraries	Genome Database, Patient records, Earth and Space science	1 Gbps
Computation	Aerodynamics, astrophysics, Global Change, Stockpile Stewardship	2.4 Gbps

Collaboratories

- Floor Control
- Security
- Collaboration Management
- Guaranteed QoS for control traffic
- Screen Real Estate scalability
- Protocols for info exchange
- Latency/variability

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