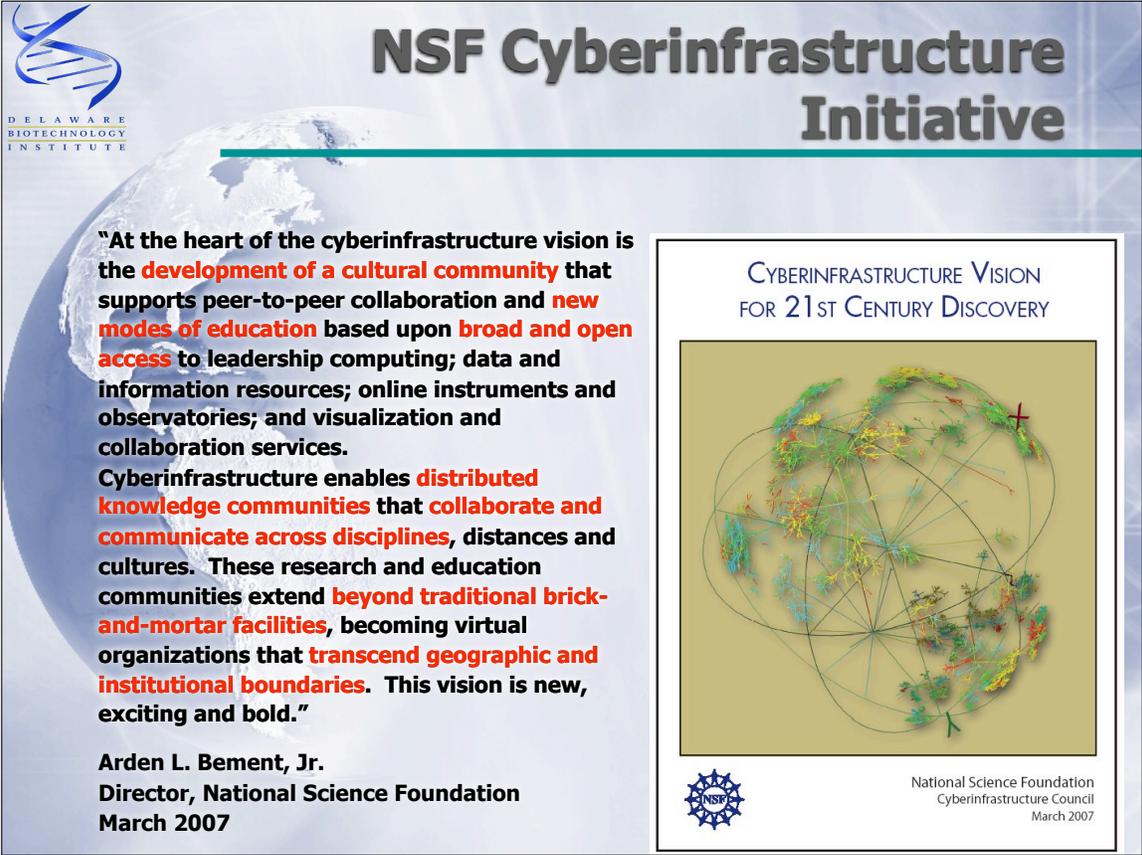




A Cyberinfrastructure Initiative for Delaware

Delaware
Science & Technology Council
June 20, 2008

DELAWARE
BIOTECHNOLOGY
INSTITUTE



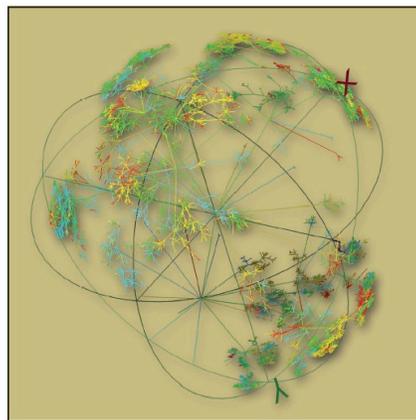
NSF Cyberinfrastructure Initiative

"At the heart of the cyberinfrastructure vision is the **development of a cultural community** that supports peer-to-peer collaboration and **new modes of education** based upon **broad and open access** to leadership computing; data and information resources; online instruments and observatories; and visualization and collaboration services.

Cyberinfrastructure enables **distributed knowledge communities** that **collaborate and communicate across disciplines**, distances and cultures. These research and education communities extend **beyond traditional brick-and-mortar facilities**, becoming virtual organizations that **transcend geographic and institutional boundaries**. This vision is new, exciting and bold."

Arden L. Bement, Jr.
Director, National Science Foundation
March 2007

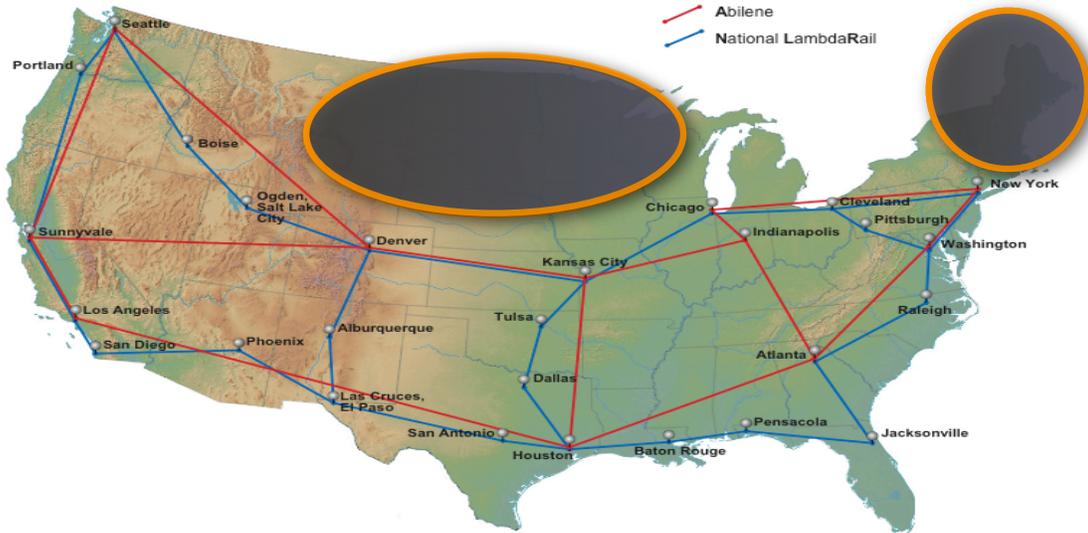
CYBERINFRASTRUCTURE VISION FOR 21ST CENTURY DISCOVERY



National Science Foundation
Cyberinfrastructure Council
March 2007

"The Cyber Black Hole"

Abilene + National LambdaRail Network



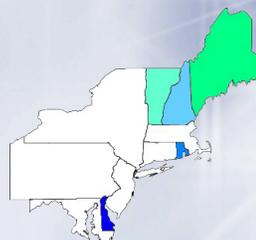
Northeast Network Initiative (NENI)





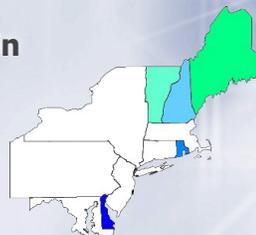
NENI Goals

- ◆ **Regional Initiative to improve IT access and significantly improve networking capabilities across the Nation's Northeast Region**
 - Launched in January 2007
- ◆ **Leadership provided by INBRE Directors in NIH-IDEA Northeast Region**
 - Maine, New Hampshire, Rhode Island, Vermont, Delaware
- ◆ **Goals:**
 - Improve regional internet connectivity to nationwide networks
 - Provide training & education for scientists and educators
 - Strengthen inter-institutional partnerships
 - Facilitate biomedical research collaborations
 - Enable access to distributed research resources
 - Support EPSCoR, INBRE & COBRE Networks



NENI Initiative

- ◆ **Status Report**
 - NENI Executive Team with representatives from each state is in place
 - NENI Task Force meets regularly via Telecon/Videocon
 - Network diagrams for all participating States generated
 - Strategy for initial and future applications in planning stage
 - Vision statement and needs analysis for each State and for the Region are underway
- ◆ **First NENI Workshop held August 17, 2007 at Northeast Regional IDEa Meeting in Burlington, VT**
- ◆ **NENI Web Site in place**
 - <http://www.dbi.udel.edu/inbre/neni.html>
- ◆ **INBRE Supplement Proposals submitted to NCRR in September '07 for initial phase of implementation**
 - Two awards for \$460k total received



A Brief Overview of the NSF Cyberinfrastructure Movement

Daniel E. Atkins
Director, Office of Cyberinfrastructure
National Science Foundation
datkins@nsf.gov



EPSCoR Board Meeting
3-4-08



National Science Foundation
Where Discoveries Begin

D. E. Atkins

Office of
Cyberinfrastructure



Research Infrastructure Improvement (RII) “Track 2” in Prep for FY 09.

- Focus on supporting consortia of EPSCoR jurisdictions to support innovation-enabling cyberinfrastructure. Consortia can be defined by regional *geography*, problem/disciplinary *themes*, and/or commonality around *technology*.
- Solicitation released: Summer 2008.
- Deadline for proposals: Fall 2008
- Several \$M over 3 years. Funding for RRI-Track 1, *not* diminished to support Track 2.



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Cyberinfrastructure





Next Steps

- ◆ **Integration of EPSCoR and INBRE Opportunities with Statewide Plans**
- ◆ **Coordination with State Science & Technology Council**
- ◆ **Establishment of CyberIT Subcommittee**
- ◆ **Continued Development of NENI Initiative**
- ◆ **Preparation for NSF OCI/EPSCoR opportunity**



CyberIT Subcommittee

- ◆ **Daniel Grim, Executive Director, NSS, University of DE**
- ◆ **Russell Merrill, CIO, Delaware State University**
- ◆ **Benjamin Wells, CIO, Wesley College**
- ◆ **Robert Messner, CTO, Delaware Tech**
- ◆ **Steve Hess, CIO, Christiana Care**
- ◆ **Ann Altoe, CIO, A.I. duPont Children's Hospital, Nemours**
- ◆ **Tom Jarrett, DE Department of Technology & Innovation**
- ◆ **Karl Steiner, Assoc. Director, DBI**

Initial Team Briefing – April 17 at DBI