



**National Center for  
Research Resources**

NATIONAL INSTITUTES OF HEALTH

*Translating research from basic discovery to improved patient care*

# Connecting the Nation's Researchers, Patients and Communities: Next Steps

3<sup>rd</sup> Internet2 Health Network Initiative Workshop  
April 30, 2009

Michael H. Sayre, Ph.D.  
Division of Research Infrastructure  
National Center for Research Resources



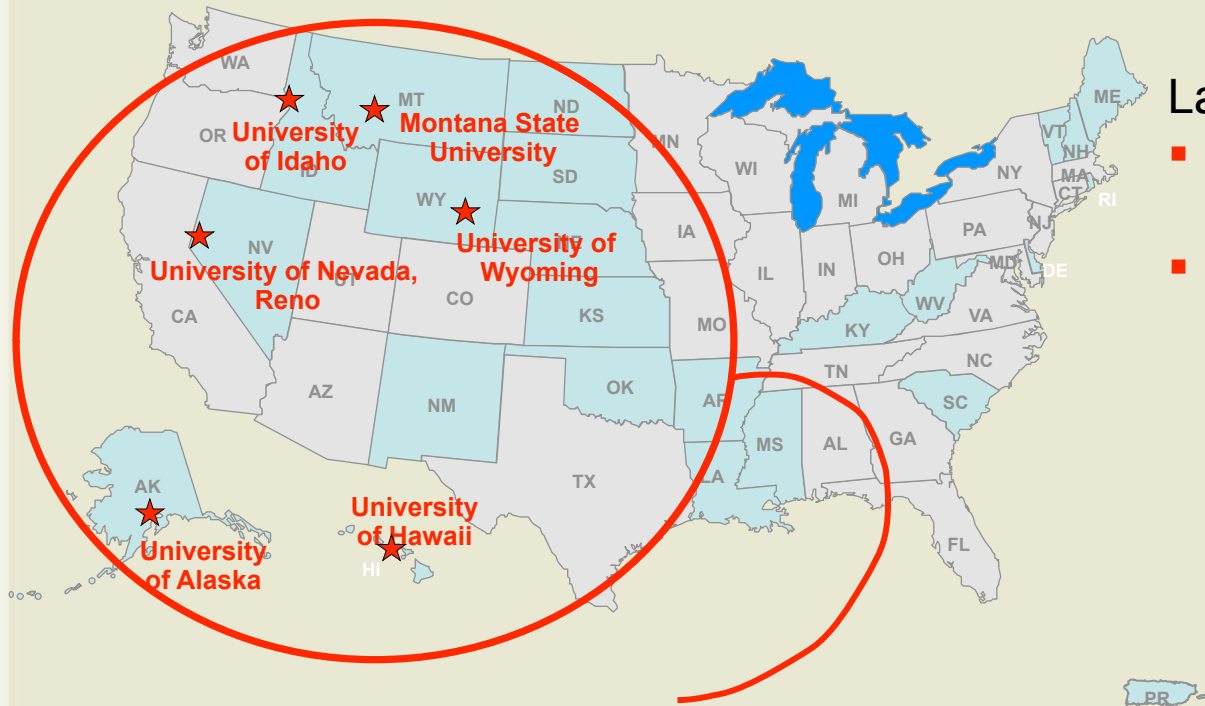
## **NCRR Investments in Connectivity**

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- Networks and networking infrastructure
- Biomedical Informatics
- Clinical Informatics

# Institutional Development Award (IDeA)

Increasing research capacity in 23 underserved states and Puerto Rico



Lariat Project:

- High Speed internet connectivity
- Bridging digital divide

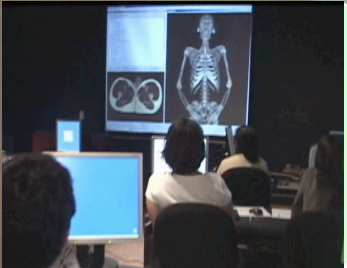
★ = Lariat Project: encircling institutions with connectivity

■ = IDeA-eligible states

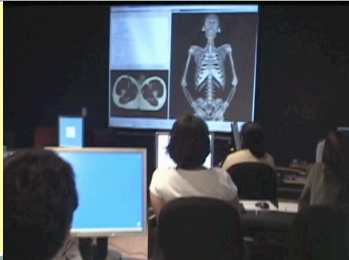
# Delaware INBRE Visualization Network

**MAGPI**  
POWER NETWORKING

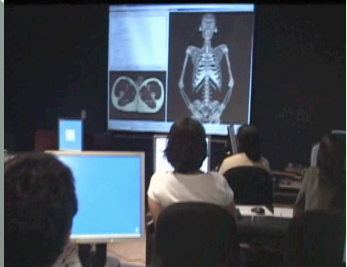
**DelTech  
Wilmington**



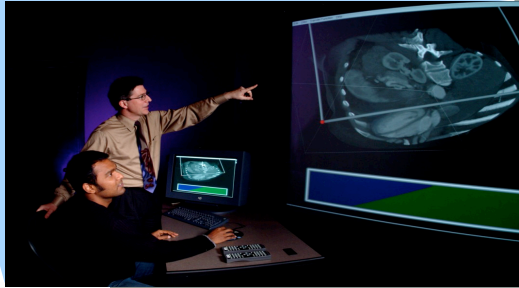
**Christiana Care**



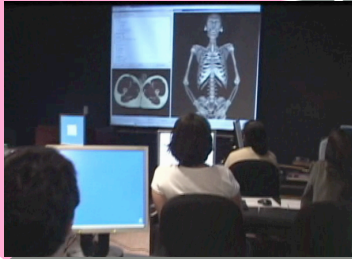
**DelTech  
Stanton**



**UD-DBI Newark**



**DSU Dover**



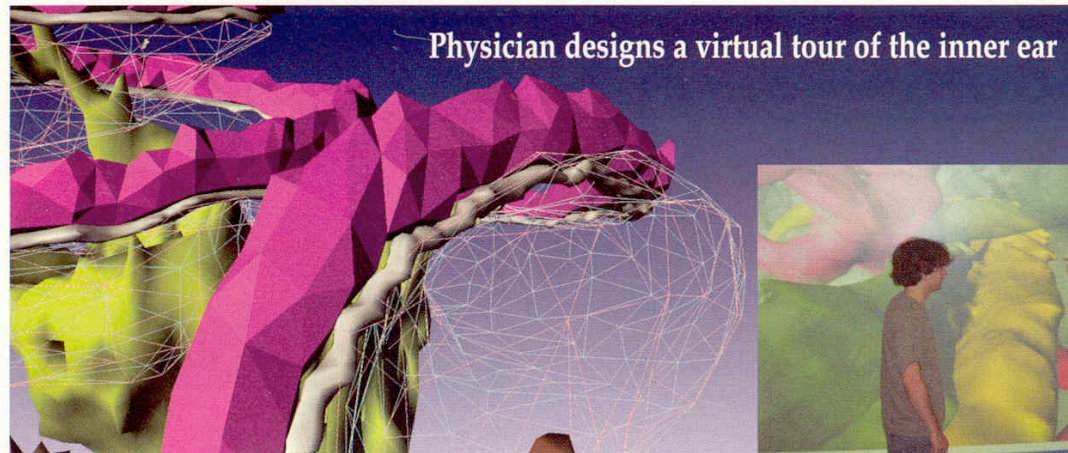
DELAWARE  
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# Highlights

- **Statewide network of visualization labs in place.**
- **Internet2 connectivity extended to Delaware State University**
- **300+ students/year at Delaware Tech using visualization lab for courses in anatomy, chemistry & molecular biology**
- **Christiana Care has integrated visualization in their new *Virtual Education and Simulation Technology (VEST) Lab***

## 3-D movies and sound enliven study of anatomy



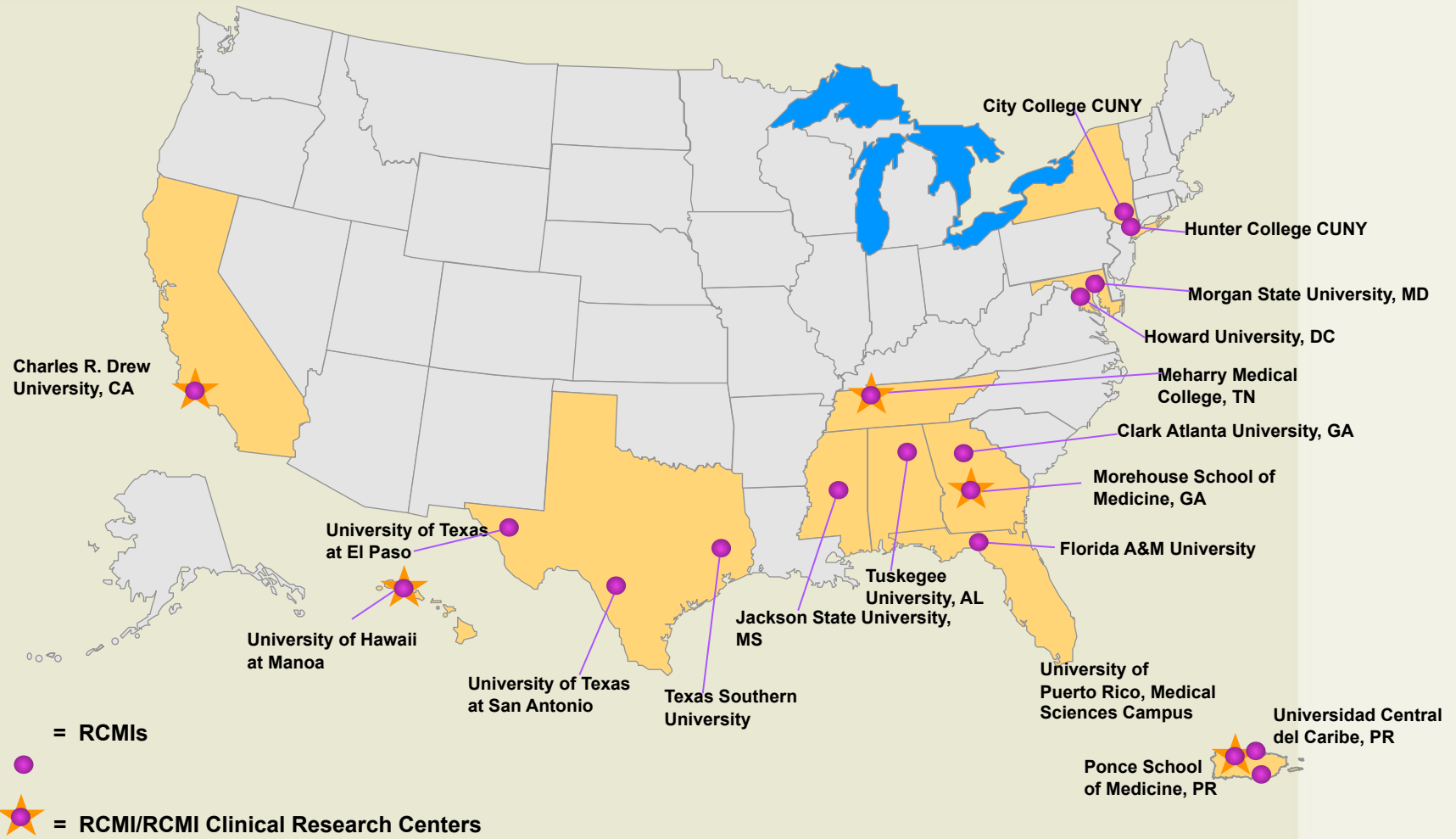
To the delight of medical educators around the world, Christiana Care otolaryngologist and neurotologist Michael Teixido, M.D., has created an astounding three-dimensional, virtual tour of the inner ear that should have applications on most any part of human anatomy.



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# Research Centers in Minority Institutions (RCMIs)

## 18 Centers in 10 states, the District of Columbia, and Puerto Rico



# RCMI at University of Puerto Rico

## Telepresence in Endoscopy



RCMI Center for Information Architecture in Research Transmits Live Multicast Video of Endoscopic Procedures Simultaneously to Four Institutions via Internet2.

Transmission site:

- Experimental Surgery Lab, UPR School of Medicine

Receiving sites:

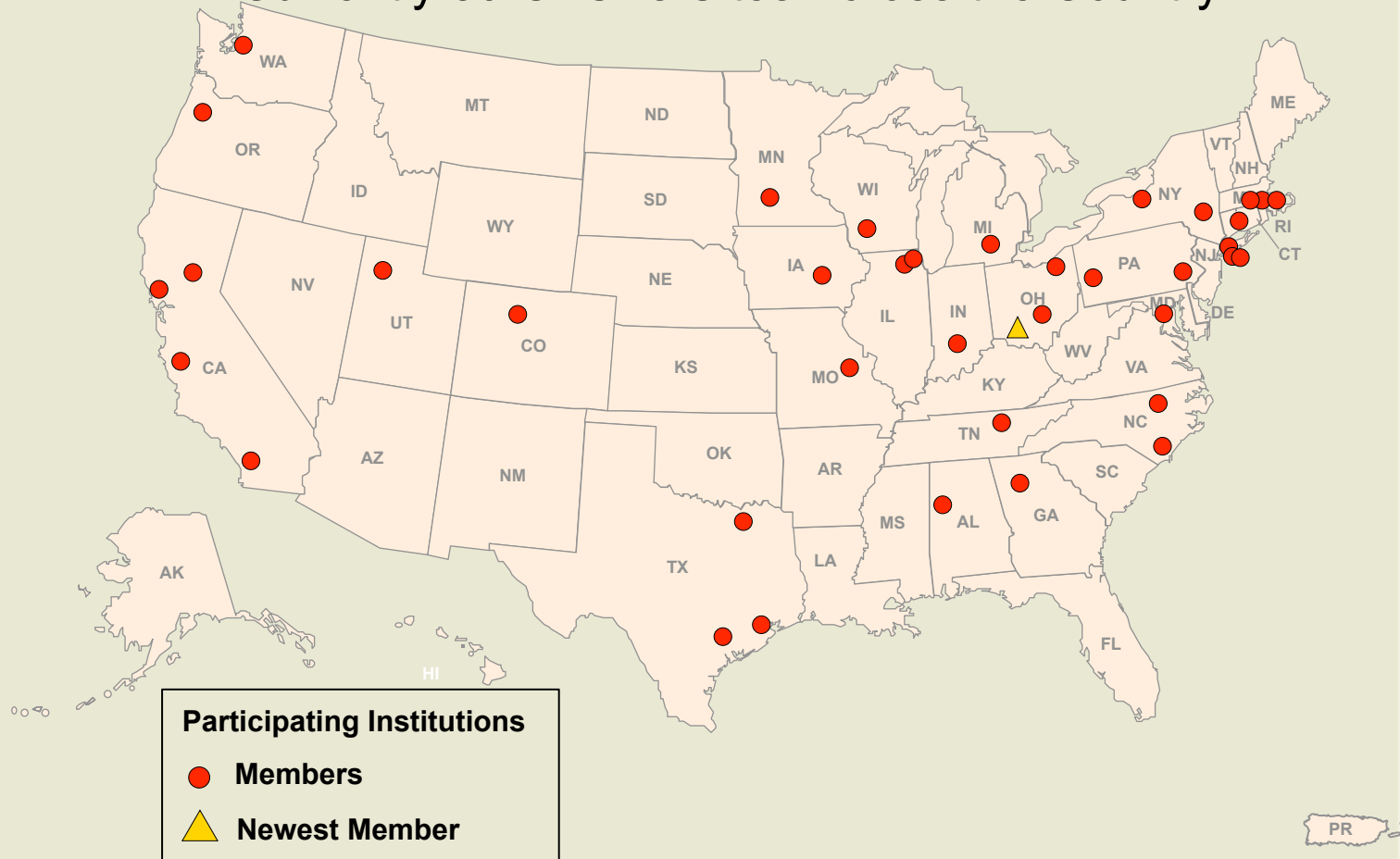
- National Library of Medicine, NIH
- Rochester Institute of Technology
- Johns Hopkins Hospital
- University of Michigan School of Medicine

Technologies: H.323 and Conference XP

<http://rcmi.rcm.upr.edu/rcminews/news0809/endo08>

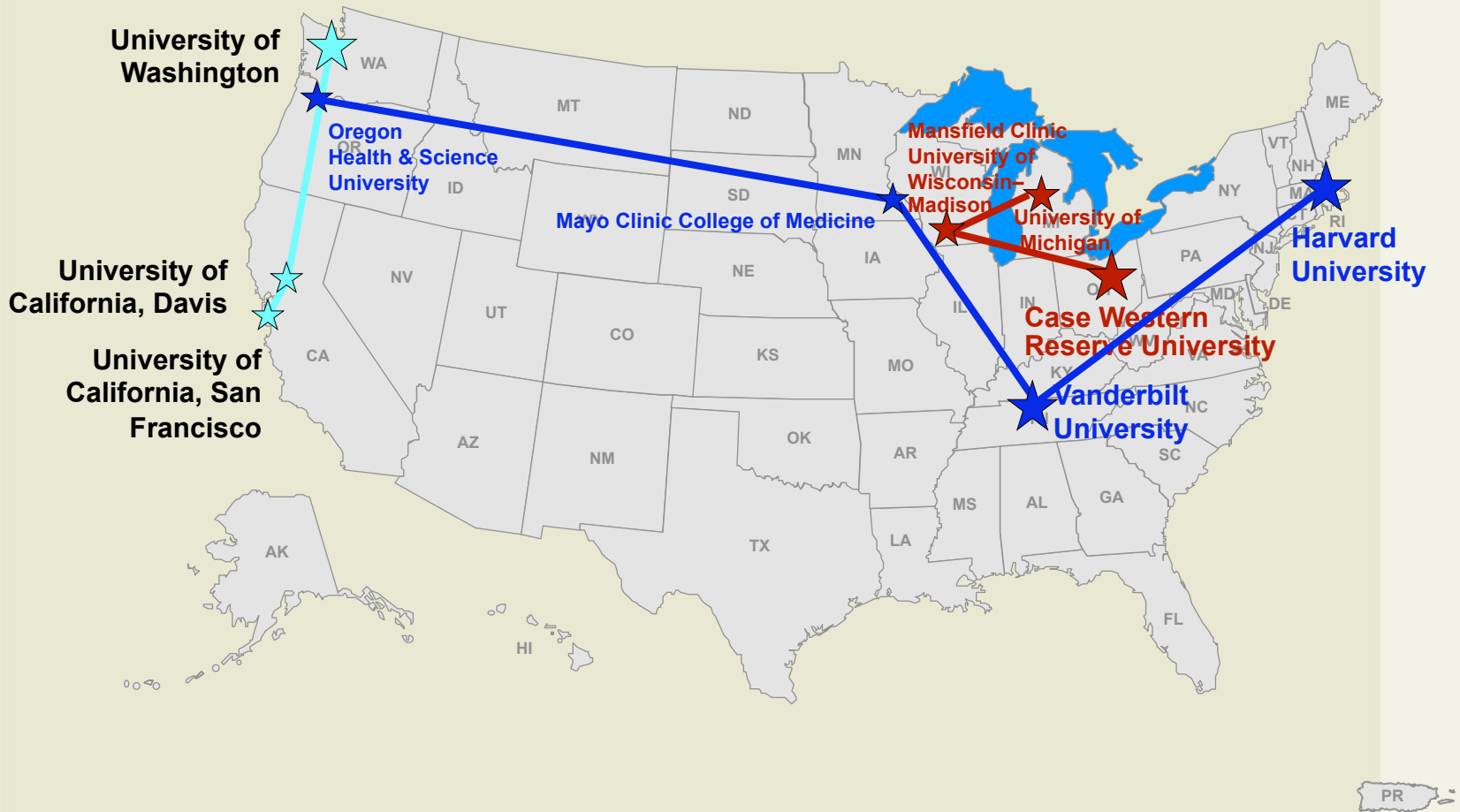
# CTSA: Building a National Consortium

Currently 39 CTSA Sites Across the Country





# Informatics Pilots – Contracts to Improve Informatics that Support Small to Medium-Sized Clinical Studies



# Informatics Pilot Projects

## PhysioMIMI at Case Western Reserve University

- Partners include Marshfield Clinic, University of Wisconsin and University of Michigan
- Collects, manages, and analyzes diverse data types across institutions
- Allows secure, safe and regulated transfer of information from clinical care systems and research databases

## Sharing Clinical Data at University of Washington

- Partners include University of California, San Francisco, University of California, Davis and Harvard
- Allow researchers to access large shared clinical repository datasets



### Quick Links

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## NCRR 2009 Recovery Act Information

*Last updated April 14, 2009.*

**ON THIS PAGE:** [Funding Opportunities](#) • [Recovery Act Overview](#) • [Contact Information](#)

### ★ NCRR's Recovery Act-Supported Funding Opportunities

NCRR will administer more than \$1.6 billion in federal grants under the Recovery Act in the following areas.

- Administrative Supplements for NCRR Awards (for other than C06, G20, K, R13, R21, S10 or T awards) [READ MORE >>](#)
- Challenge Grants in Health and Science Research [READ MORE >>](#)
- Competitive Revision Applications (for CSR-reviewed R01, R33, R37, R21 or U01 awards) [READ MORE >>](#)

### Recovery Act Links

[NCRR Director's Message](#)

[American Recovery and Reinvestment Act of 2009 \(OMB PDF\)](#)

[Learn more about the Act @ Recovery.gov](#)

[Comment on the Act @ WhiteHouse.gov](#)

*PDF files require free Acrobat Reader.*

### New Applicants

**Your organization must register** for both [grants.gov](#) and the [NIH eRA Commons](#) to apply for most NIH funding. Registration can take four weeks to complete.

[Start now!](#)

<http://www.ncrr.nih.gov/recovery>

## NCRR Funding through ARRA

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- **\$1.0 Billion for construction, repair and renovation**
  - RFA for Extramural Research Facilities Improvement Program (C06)
  - RFA for Core Facility Renovation, Repair and Improvement (G20)
- **\$300 Million for shared instrumentation and other capital research equipment**
  - RFA for Shared Instrumentation Grant (SIG)
  - RFA for High End Instrumentation (HEI)
- **\$310 Million for scientific research**
  - Supplements to existing resource programs (IDeA, RCMI, CTSA BTRC and ABMR)

# ARRA Limited Competition RFA: Enabling National Networking of Scientists and Resource Discovery

**RFA-RR-09-009** Receipt Date: June 15, 2009 (letters of intent, May 18)

## Purpose:

- Develop, enhance, or extend distributed infrastructure to facilitate national discovery of individuals & resources to support biomedical research
- Projects must include six diverse NCRR-funded institutions (size, resources, geography, minority populations) ensuring broad use and impact

## Mechanism of Support:

- Resource-Related Research Projects Cooperative Agreement (U24)

## Funds Available

- \$30 million over two years



# ARRA – NCRR Administrative Supplement Collaborative Community Engagement Research

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## Examples:

- Develop, expand, and/or evaluate telehealth networks linking academic health centers and health care providers in rural and other medically underserved areas
  - Leverage HRSA, VA, FCC, and/or USDA telehealth programs
  - Increase community capacity for clinical and translational research, risk assessment, biosurveillance, emergency preparedness and disaster recovery

[www.ncrr.nih.gov/recovery/supplements/details](http://www.ncrr.nih.gov/recovery/supplements/details)

# NCRRR/NIH Telehealth Conference

June 25-26, 2009

*Help determine how NCRRR/NIH can partner with other agencies to accelerate research and improve healthcare*



**National Center for  
Research Resources**



**National Institutes  
of Health**

Summary Agenda Hotel Accommodations Directions to NIH

## **Future of Telehealth: Essential Tools and Technologies for Clinical Research and Care**

On behalf of the NIH National Center for Research Resources (NCRR) and our partners, we invite you to participate in a conference on the Future of Telehealth: Essential Tools and Technologies for Clinical Research and Care.

This two-day event will bring together stakeholders from government agencies, academic institutions, health care organizations, and technology companies to:

- review the state of telehealth science and technology;
- identify gaps in knowledge that can be addressed through targeted research and evaluation initiatives; and
- explore ways to leverage evolving information and communication technologies to advance the field.

A workshop on the second day will yield specific recommendations to stimulate development, implementation, and evaluation of telehealth applications for clinical care, clinical and translational research, and health education and training, with the ultimate goals to broaden participation in research and improve health outcomes in medically underserved communities.

**Location:** Natcher Conference Center

NIH Campus, Building 45  
45 Center Drive  
Bethesda, MD 20892

<http://events.internet2.edu/2009/NIH/index.html>



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***Thank you!***

## NCRR Programs

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- Research Facilities Improvement (construction grants)
- Institutional Development Award (IDeA)
- Research Centers in Minority Institutions (RCMI)
- Clinical and Translational Science Awards (CTSA)
- Science Education Partnership Awards (SEPA)
- Animal and Biologic Material Resources (ABMR)
- National Primate Research Centers (NPRC)
- Biomedical Technology Research Centers (BTRC)
- Instrumentation Grants
  - Shared Instrumentation Grants
  - High-End Instrumentation Grants