PennREN Update

23 Apr 2013

History

In February 2010, the National Telecommunications and Information Administration (NTIA) awarded KINBER, a new nonprofit corporation, a $99.6 million grant for the implementation and management of a middle-mile network called PennREN. KINBER will oversee the completion of PennREN, a network comprised of 1,600 miles of fiber and network equipment delivering services to locations throughout the Commonwealth of Pennsylvania for use by community anchor institutions including universities, colleges, K-12 schools, libraries, public media organizations, and healthcare organizations, among others. PennREN will provide these institutions with competitively priced, networking services that will enhance the opportunities for collaboration and economies of scale for network transport, transit, and connectivity.

Membership

- <u>Charter Board Members</u>
  - Association of Independent Colleges and Universities of Pennsylvania
  - Bucknell University
  - Carnegie Mellon University
  - Drexel University
  - Hospital and Healthcare Association of Pennsylvania
  - Lehigh University
  - Pennsylvania Commission for Community Colleges
  - Pennsylvania State System of Higher Education
  - The Pennsylvania State University
  - University of Pennsylvania
  - University of Pittsburgh

- <u>Associate Board Members</u>
  - Geisinger Health System
  - PAIUnet (PA Intermediate Units network)
  - PA Department of Education Division of Library Improvement
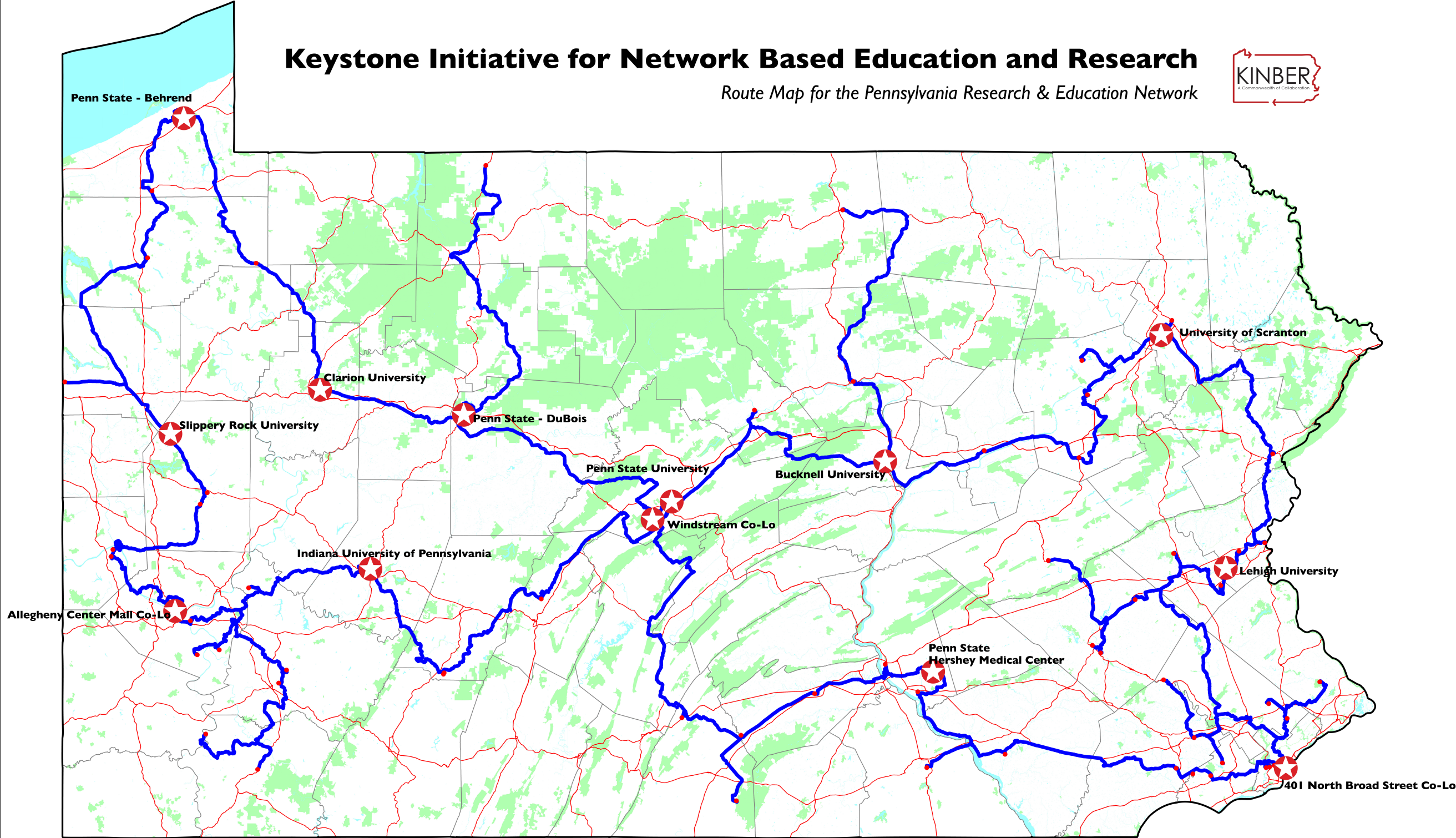 - Pennsylvania Public Media

- <u>Associate Members</u>
  - Temple University
  - University of Scranton

- <u>Affiliates</u>
  - MAGPI, 3ROX

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Keystone Initiative for Network Based Education and Research

Route Map for the Pennsylvania Research & Education Network

KINBER
A Commonwealth of Collaboration

Penn State - Behrend

University of Scranton

Clarion University

Penn State - DuBois

Slippery Rock University

Penn State University

Bucknell University

Windstream Co-Lo

Indiana University of Pennsylvania

Lehigh University

Allegheny Center Mall Co-Lo

Penn State
Hershey Medical Center

401 North Broad Street Co-Lo

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PennREN construction complete

- PennREN construction completed Feb. 28, 2013
- Met the three year condition of the federal grant
- Phase two build underway to reach 7 additional nodes
    - Completion forecast by end of calendar 2013
    - Penn State Mont Alto in this set
- http://www.kinber.org/PennRENMap.aspx for more details

Network Services

- Full network services now being delivered across the footprint

- Redundant commodity Internet out of Pittsburgh and Philadelphia

- Connectivity to Internet2

- Intrastate KINBER Member Exchange enabling collaboration

- Dedicated private point-to-point circuits

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Member Services

- Eight members currently receiving services

- Three additional members timed for delivery 7/1/13 (education fiscal year)

- Three PSU locations receiving PennREN services

  - Hershey, Harrisburg, Behrend

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Next steps (in progress)

- Conversations with nearby state R&E's to connect for peering

- Deepening involvement with Internet2 for delivering Net+ services

- Developing relationships with PA providers of content, network-centric services (cloud services, DR/BC) desired by members

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Upcoming events

- KINBER Member Meeting 2013 Pittsburgh 6/26-27

    - Celebrating our collective accomplishment and exploring the collaboration opportunities it brings

    - All are invited http://www.kinber.org/MemberMeeting2013/

- Planning KINBER "High Performance Computing Day" October 2013 State College

- Planning KINBER 2014 Member Meeting, April 2014 Harrisburg