University of Illinois, UC2B and US Ignite

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Building the Next Generation of the Internet

Bringing the University of Illinois and our community together to make it happen today

Rethinking the Vision for Community and Digital Inclusion

"All people, businesses and institutions will have access to digital content and technologies that enable them to create and support healthy, prosperous and cohesive 21st-Century communities" (IMLS 2011, "Building Digitally Inclusive Communities")

Broadband in Urbana-Champaign

Goals of UC2B
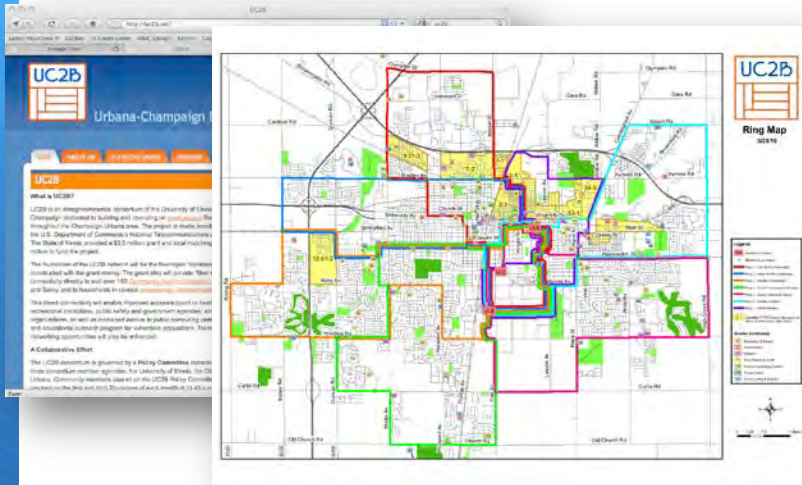
- Collaboration UIUC, Champaign, Urbana
- $29.4 M project
  - $22.5 Federal. $3.5 State, $3.4 Local
- Project end date is January 31, 2013
- Key UIUC Leadership
  - CITES
  - College of LAS, ATLAS
  - Graduate School of Library and Information Science

+ Fastest Internet service in the US

+ 7 fiber rings provide symmetrical broadband service to gigabit network

+ Connect Underserved Neighborhoods
  + 200 Community Anchors
  + 2500 Households and Businesses

+ Affordable Service
  + Free installation of fiber network to the home
  + $19.99 20Mbps; $29.99 30 Mbps; $39.99 40 Mbps

+ Community Benefit Fund
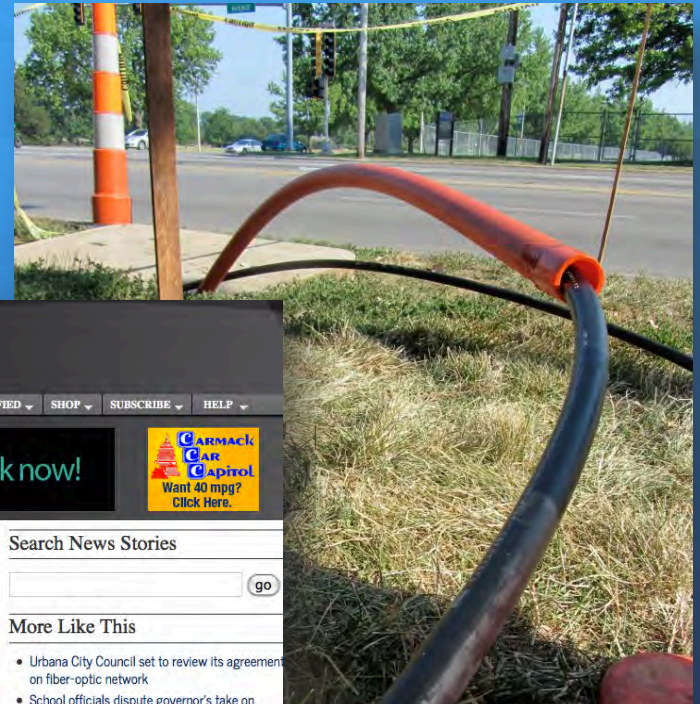
The News-Gazette
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New network 'opens the door to so many opportunities' for learning

Sun, 08/26/2012 - 8:00am | Meg Dickinson, staff writer, The News-Gazette

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Urbana-Champaign Big Broadband may be a high-speed fiber-optic Internet network that's connecting local institutions and underserved households.

For local school districts that will be connected through UC2B, the value doesn't necessarily lie in fast connections, but in what that means for collaborations both between their own schools and with other institutions around the community.

Officials in the Champaign and Urbana school districts say they're looking forward to finding ways to work with other institutions, the

Photo by: Darrell Hoemann/The News-Gazette
Champaign school server technician Julie Anderson with network cabling at the new Carrie Busey school in Savoy.

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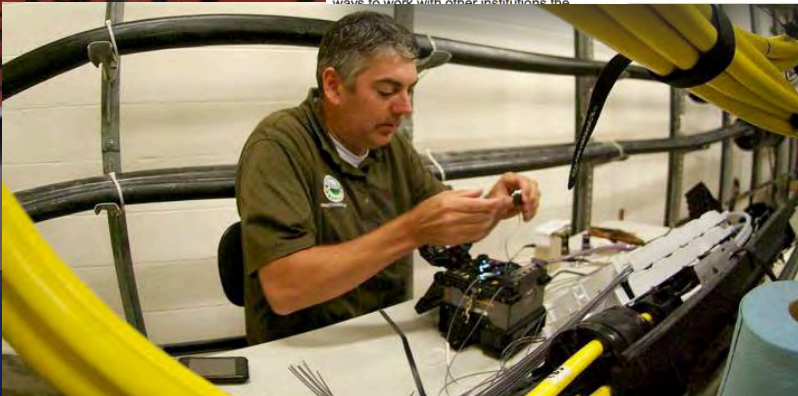
US Ignite Initiative

Promote U.S. leadership in the development of applications and services for ultra-fast networks for societal benefit
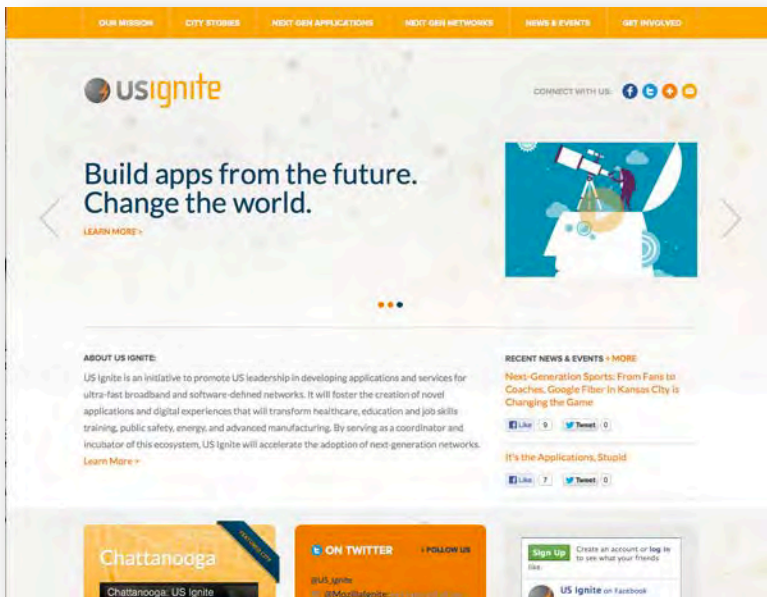

- **+ Critical Components**
  - **+ National Science Foundation**
  - **+ Global Environment for Network Innovation (GENI)**
  - **+ Mozilla Foundation**
  - **+ US Ignite Partnership of commercial providers, communities, research and education networks**

Goals of US Ignite

+ Foster the creation of 60 next-generation applications

+ Provide 200 community test beds

+ Provide a forum for collaboration

Next Generation Applications

+ Designed to run on ultra-fast networks

+ Address national priorities

+ Work with partners to run hack days, competitions, conferences

UC2B Partnership with US Ignite

Joining a national test bed for testing deploying next-gen applications
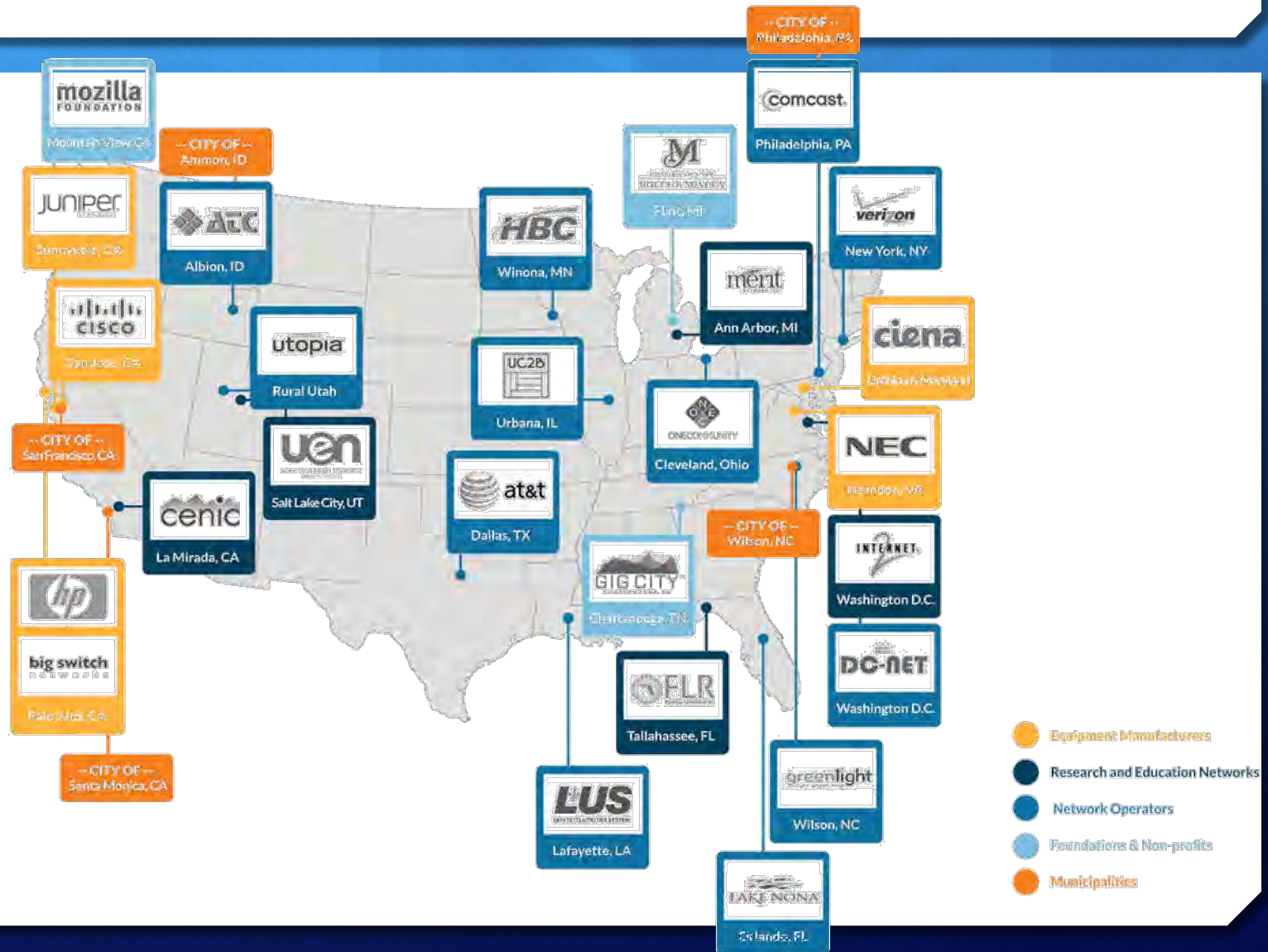
Next Gen Library Services

Goals for the University of Illinois

+ Create a "Platform"
  + Engage Students
  + Foster collaboration
  + Integrate with on-going research
  + Pursue research funding
  + Develop internal coordination

Emerging Model to Build an Inclusive Knowledge Society

Strategy for Innovation and Performance

Social Architecture

Complex Societal Problems

Data and Data Analytics

Global Access to Resources

Technical Architecture

Source: Prahalad and Krishnan (2008, p. 6)