

# 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 21<sup>st</sup>-Century communities” (IMLS 2011, “Building Digitally Inclusive Communities”)



CONNECTING AMERICA: THE NATIONAL BROADBAND PLAN





## Urbana-Champaign Big Broadband

UC2B ABOUT US C-U MICRO-URBAN VENDORS NEWS HANDBOOK GO

### UC2B

#### What is UC2B?

UC2B is an intergovernmental consortium of the University of Illinois and the cities of Urbana and Champaign dedicated to building and operating an [open-access](#) fiber-optic broadband network throughout the Champaign-Urbana area. The project is made possible by a \$22.5 million grant from the U.S. Department of Commerce's National Telecommunications and Information Administration. The State of Illinois provided a \$3.5 million grant and local matching funds added an additional \$3.4 million to fund the project.

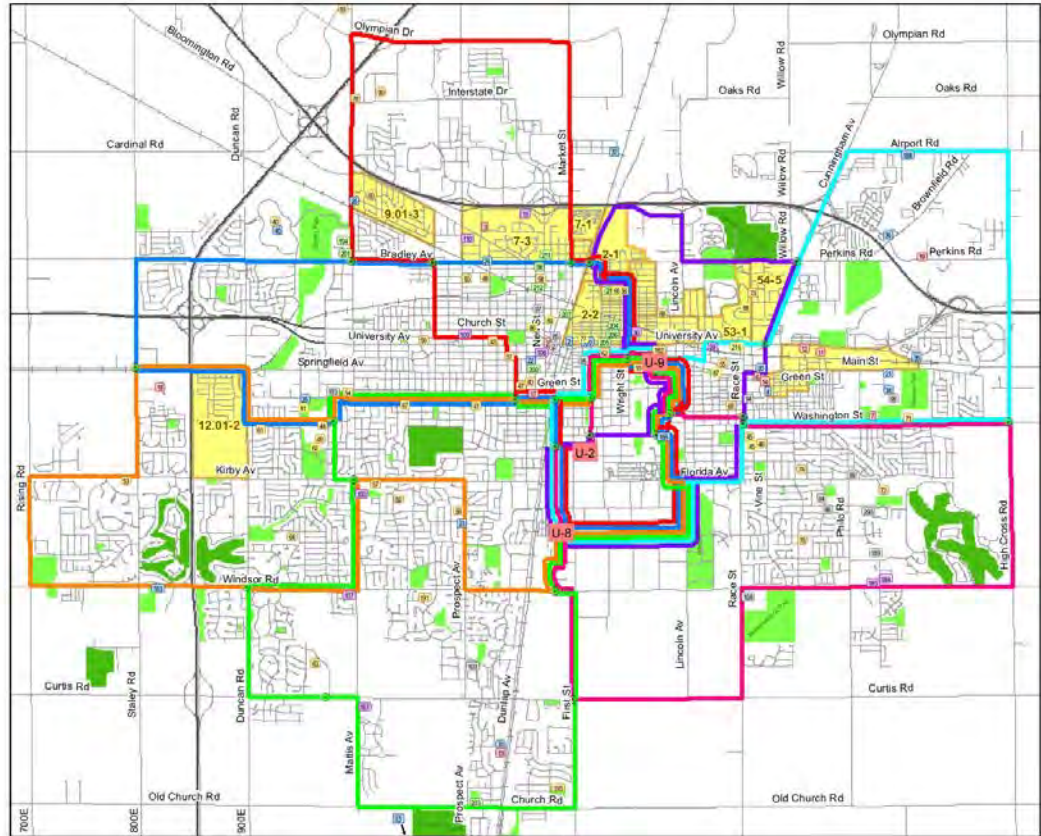
The foundation of the UC2B network will be the fiber-optic "backbone" infrastructure that will be constructed with the grant money. The grant also will provide "fiber-to-the-premises" (FTTP) connectivity directly to well over 150 [Community Anchor Institutions](#) throughout Champaign, Urbana, and Savoy and to households in several [underserved neighborhoods](#) in Champaign and Urbana.

This direct connectivity will enable improved access/support to health care, educational and recreational institutions, public safety and government agencies, and social service and religious organizations, as well as increased access to public computing centers, and a sustainable adoption and educational outreach program for vulnerable populations. Training, entertainment, and social networking opportunities will also be enhanced.

#### A Collaborative Effort

The UC2B consortium is governed by a [Policy Committee](#) consisting of representatives from the three consortium member agencies: the University of Illinois, the City of Champaign, and the City of Urbana. Community members also sit on the UC2B Policy Committee. Regular meetings of the policy are held on the first and third Thursdays of each month at 11:45 a.m. at the Downlax Branch of the

Done



### Ring Map 3/23/10

**Legend**

- Backbone Nodes
- Maximize Locations
- Ring 1 - Far North Champaign
- Ring 2 - Near North Champaign
- Ring 3 - Middle Champaign
- Ring 4 - South Champaign & Savoy
- Ring 5 - South Urbana & Savoy
- Ring 6 - Middle Urbana
- Ring 7 - North Urbana
- 3.5.1 Last Mile FTTP (Funded Services Area) (Supports an Anchor Institution) (See Other)

**Anchor Institutions**

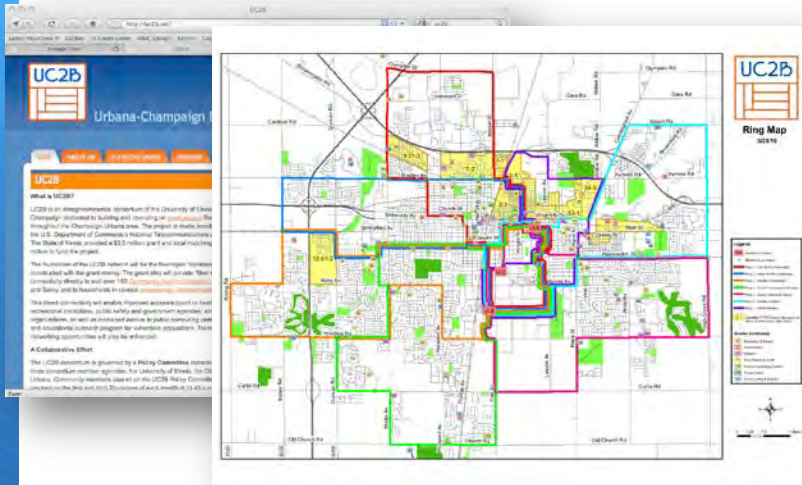
- Education & Library
- Government
- Medical
- Park District & Youth
- Public Consulting Centers
- Public Safety
- Special Living & Activity



# Broadband in Urbana-Champaign

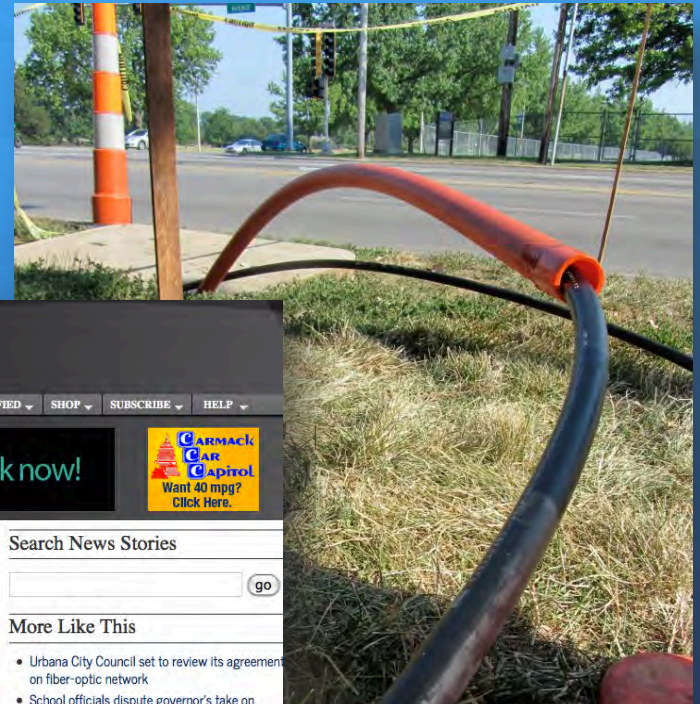


# Goals of UC2B



- 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



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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*

Like 5 | +1 1 | Tweet 10

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



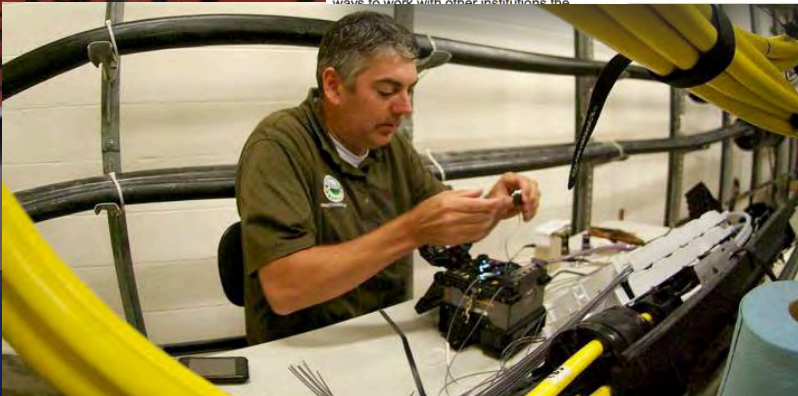
Photo by: Darrell Hoemann/The News-Gazette  
Champaign school server technician Julie Anderson with network cabling at the new Carrie Busey school in Savoy.

#### Search News Stories

#### More Like This

- Urbana City Council set to review its agreement on fiber-optic network
- School officials dispute governor's take on 'reserve' funds
- Local districts and community colleges working together on dual-credit courses
- Changes in poverty and how schools are affected
- Attorney general: Champaign school district should release Culver complaint
- School district wants suggestions on fate of Champaign Central
- Audit finds no problems at Urbana school



# US Ignite Initiative

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



## + Critical Components

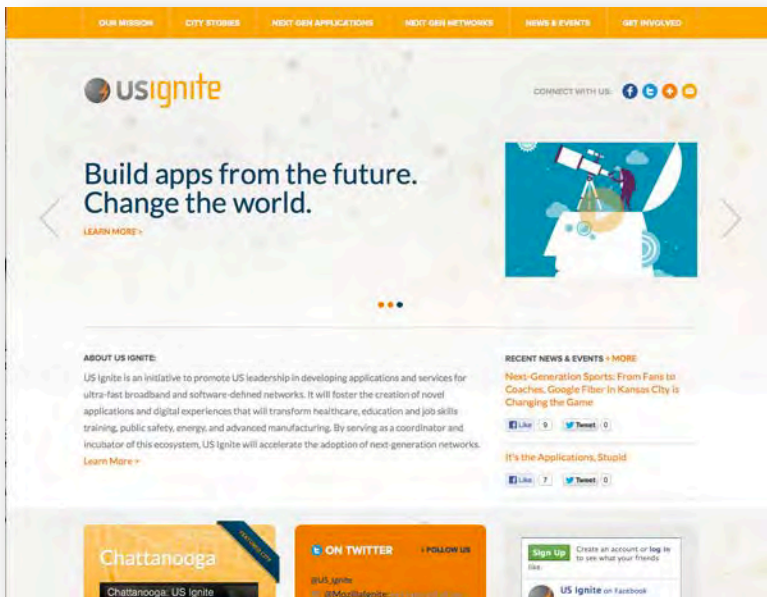
- + National Science Foundation
- + Global Environment for Network Innovation (GENI)
- + Mozilla Foundation
- + US Ignite Partnership of commercial providers, communities, research and education networks





## Goals of US Ignite

- + Foster the creation of 60 next-generation applications
- + Provide 200 community test beds
- + Provide a forum for collaboration





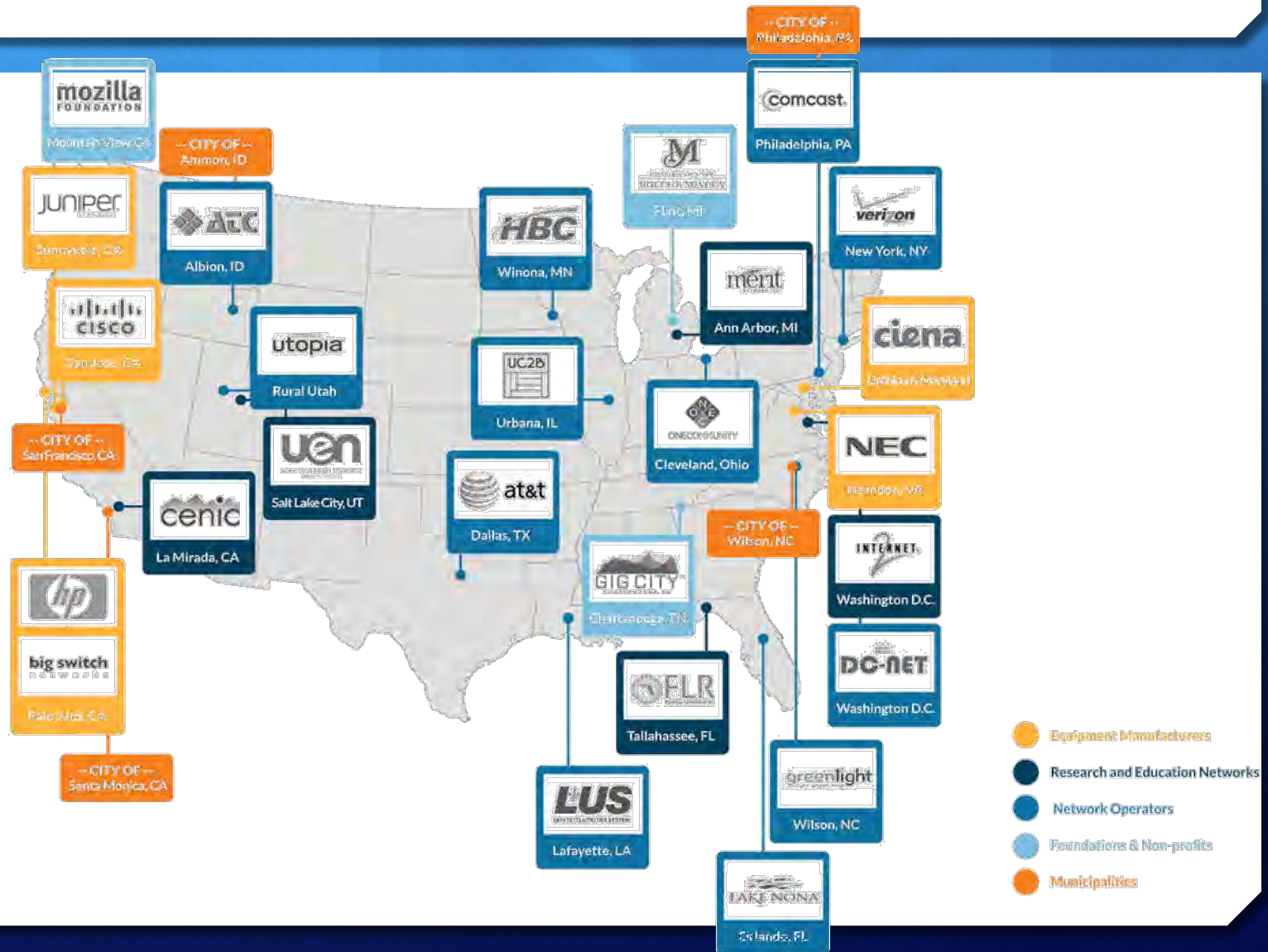
# Next Generation Applications



- + 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

Chattanooga Public Library

**THE PUBLIC LIBRARY**

Home On Demand Teen Stack Kid's Catalog Local History Libr...

Search Catalog  
Search E-Reference  
E-Reference List  
Downloadables  
Use the Library  
Locations  
Subject Areas  
Programs  
Genealogy  
Government

Using a smartphone? Try our mobile site!

Nothing quiet about it.

**Video Mosaic Collaborative**

Watching students grow with math

Notice: Video Mosaic Collaborative will be unavailable Sunday, August 12, 2012- 7am -7pm EST [More].

**the news literacy project**  
how to know what to believe

5525 Devon Rd  
Bethesda, Md. 20814  
301-651-7499

**Cuyahoga County Public Library**  
browsing is just the beginning

Warrensville Heights Branch

4415 Northfield Road  
Warrensville Heights, Ohio 44128-603

Phone: 216-464-5280  
Fax: 216-464-6475  
Email: Branch Manager

Hours: Monday-Thursday, 9:00 AM- 9:00 PM  
Friday - Saturday, 9:00 AM- 5:30 PM  
Sunday - 1:00 - 5:00 PM

Branch Manager Jesse Sanders

Learn more about our new branch

**Taxicab**  
Students work on taxicab geometry

**Placing 1/3rd on a Number Line**  
Students debate on where to place 1/3rd

**Alan's Infinity**  
How many numbers are between 0 and 1?

**Designing New Rod Set**  
Students build a perfect set of rods

**what is the news literacy project?**

The News Literacy Project (NLP) is an innovative national educational program that mobilizes seasoned journalists to help middle school and high school students sort fact from fiction in the digital age.

The project teaches students critical-thinking skills that will enable them to be smarter and ...

Learn More

**from our blog**

**The News Literacy Project teams with The Washington Post**  
May 26, 2012 | Post a comment on this entry

The News Literacy Project is partnering with The Washington Post's Young Journalists Development Program to offer three free half-day workshops for high school students at the Post this summer.

Each session is designed to equip students with essential critical-thinking skills needed to sort fact from fiction as both consumers and producers of news and information. They will combine some of the ...

**Kathleen Parker Joins the News Literacy Project Board**  
Apr 11, 2012 | Post a comment on this entry

Kathleen Parker, a Pulitzer Prize-winning columnist for The Washington Post, has joined the News Literacy Project's board.

Parker writes a twice-weekly column on politics and culture that is syndicated by the Washington Post Writers Group to more than 450 newspapers. The Post is one of 21 news organizations that participate in the News Literacy Project.

In 2010, Parker was awarded the Pulitzer ...

# Goals for the University of Illinois

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

