GOVERNMENT TECHNOLOGY®

KENTUCKY
DIGITAL GOVERNMENT
SUMMIT
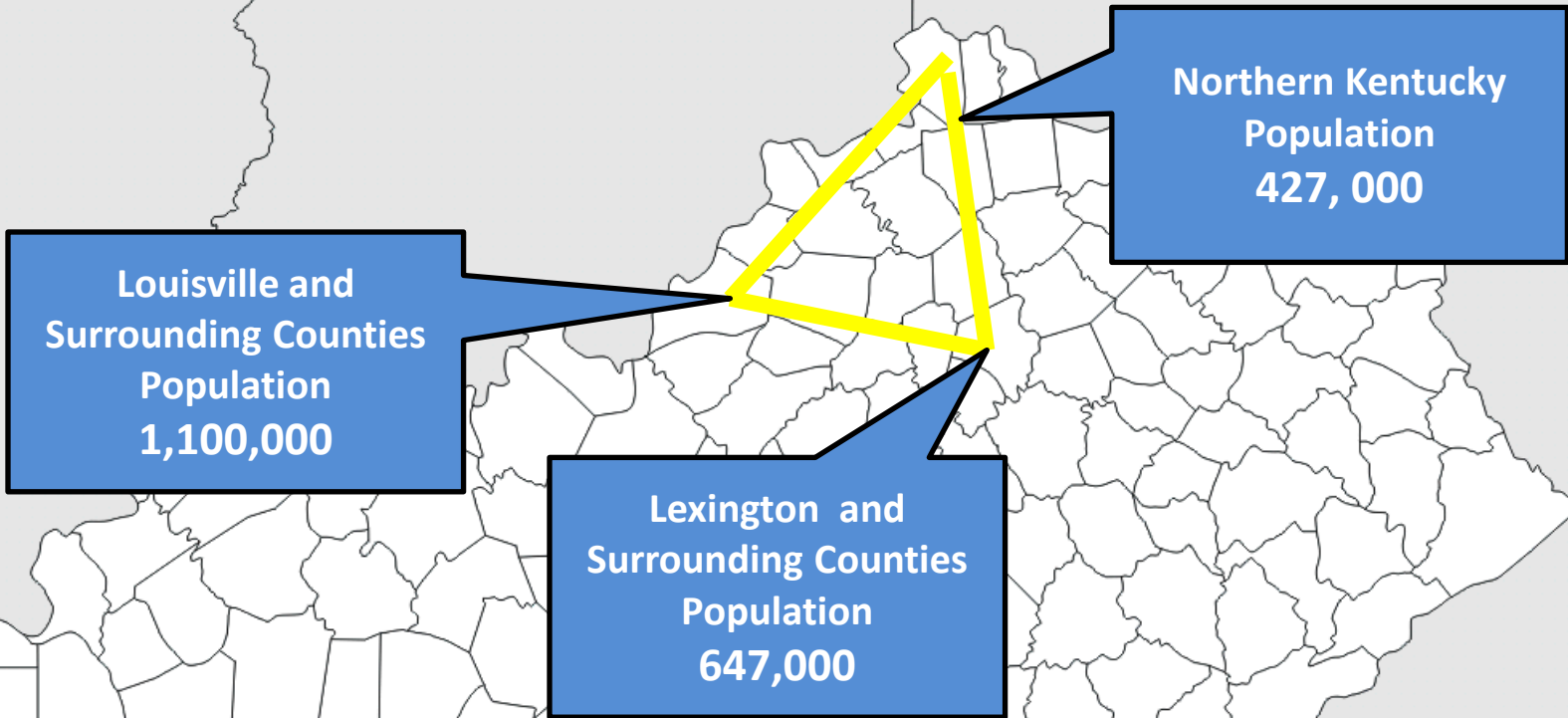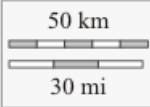
FRANKFORT
KENTUCKY
APRIL
TWENTY-THIRD
2013

STATISTICS FOR KENTUCKY

- POPULATION – 4,273,951

- TOTAL SQUARE MILES – 40,411

- NUMBER OF HOUSEHOLDS – 1,686,618

- 2,250,000 (*54% of our Population*) Live on 22% of our Land – The Golden Triangle

- The Golden Triangle is an economic region in Kentucky which contains most of the state's population, wealth and economic growth.

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50 km

30 mi

Northern Kentucky Population 427, 000

Louisville and Surrounding Counties Population 1,100,000

Lexington and Surrounding Counties Population 647,000

CONNECTIVITY – AVAILABILITY – ACCESS

- 91.5% or 3,890,0000 Kentucky Citizens have access to broadband

  ~Kentucky Ranks 40th in availability

- 8.5% do not have access to broadband

  ~400,000+/- people have no access – this doesn't mean they don't access broadband, it just means they don't have access at their home

  Many drive to public Wi-Fi spots – Libraries/McDonalds etc

STATISTICS FOR KENTUCKY

According to the latest FCC report

- 1.5% of the URBAN area Kentucky population is without access

VS.

- 23% of the RURAL area Kentucky population is without access

OTHER STRUGGLES FOR KENTUCKY

High Cost   Miles from nearest option

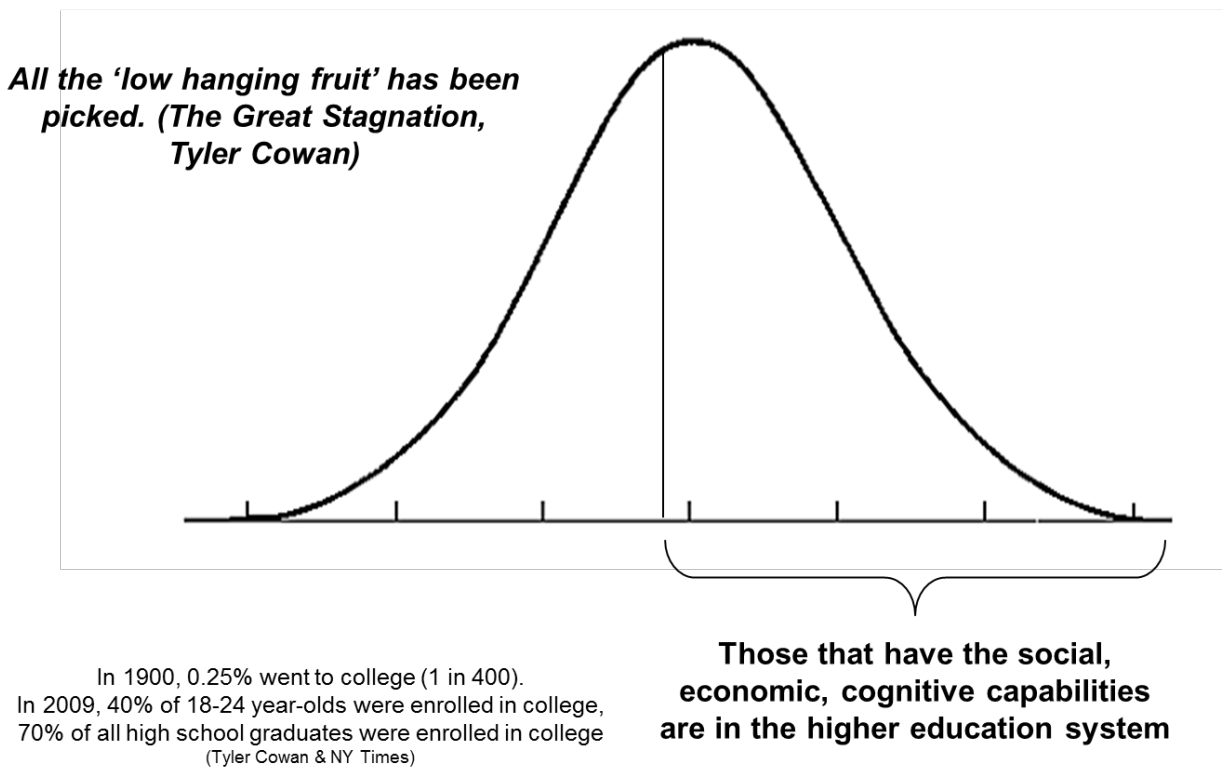Expensive Installation Cost

No perceived value   Low Income

Poverty Levels

How many students are learning online?

- Last year, within the U.S., about 6.7 million students have taken at least one online course (there are about 20 million higher education students in the U.S.)

- Last year, the growth rate was about 9%, with 570,000 new online enrollments, the lowest in since 2002

- The percentage of students taking at least one online course is 32%

- Only 2.6% of institutions participate in or use a massive-online open course (MOOC) system. 9.4% of the institutions are considering

- Source: Changing Course: Ten Years of Tracking Online Education in the United States. January, 2013. Babson Survey Research Group and Quahog Research Group.

Higher education has a 'last mile' problem

Education in any form is struggling to address families and communities with economic and other readiness problems

Free or low-cost educational content does not easily solve readiness problems which have a multitude of causative factors

For-profit models rightfully struggle with 'last-mile' problems. Public policy matters!

All the 'low hanging fruit' has been picked. (The Great Stagnation, Tyler Cowan)

In 1900, 0.25% went to college (1 in 400).
In 2009, 40% of 18-24 year-olds were enrolled in college, 70% of all high school graduates were enrolled in college
(Tyler Cowan & NY Times)

Those that have the social, economic, cognitive capabilities are in the higher education system

What would Abraham Lincoln think of a MOOC?

Abraham Lincoln

- Autodidactic
- Books, books, books
- Became a skilled military strategist
- Penchant for poetry, Shakespeare, politics and history

My nephew

- Not an autodidact
- Good worker, smart kid, but…
- It takes a village
- After a few low-security colleges and much money borrowed
- He has found an intellectual home
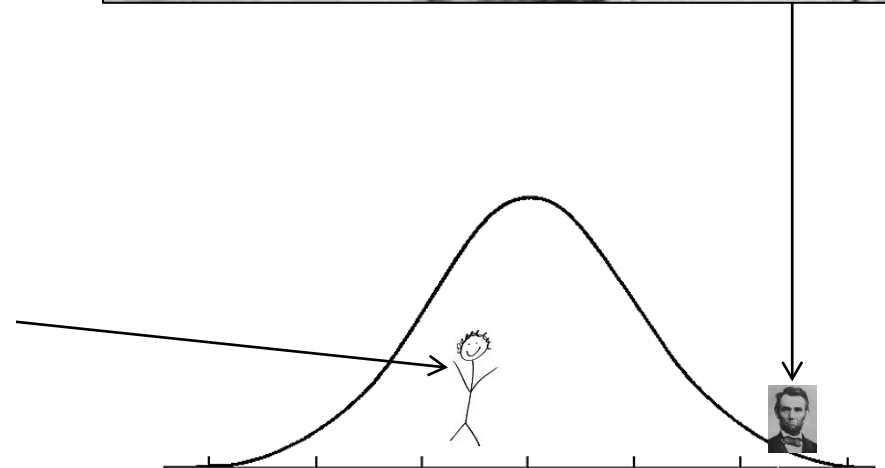
Fiber Rich Communities?

CONNECTING AMERICA: THE NATIONAL BROADBAND PLAN

The National Broadband Plan lays out a bold roadmap to America's future. These initiatives will stimulate economic growth, spur job creation, and boost our capabilities in education, healthcare, homeland security and more.

Explore the Plan below and learn more about how affordable, high-speed broadband access will help America lead in the 21st century.

THE NATIONAL BROADBAND PLAN

Like electricity a century ago, broadband is a foundation for economic growth, job creation, global competitiveness and a better way of life. It is enabling entire new industries and unlocking vast new possibilities for existing ones. It is changing how we educate children, deliver health care, manage energy, ensure public safety, engage government, and access, organize and disseminate knowledge.

2009

BROADBANDUSA
CONNECTING AMERICA'S COMMUNITIES

RECOVERY.GOV

NTIA administers the Broadband Technology Opportunities Program (BTOP) within three project categories:

• Comprehensive Community Infrastructure:

• Public Computer Centers:

• Sustainable Broadband Adoption

2010

For new test-beds to foster experimentation and innovation, it makes sense to work with communities that have strong traditions of experimentation and innovation
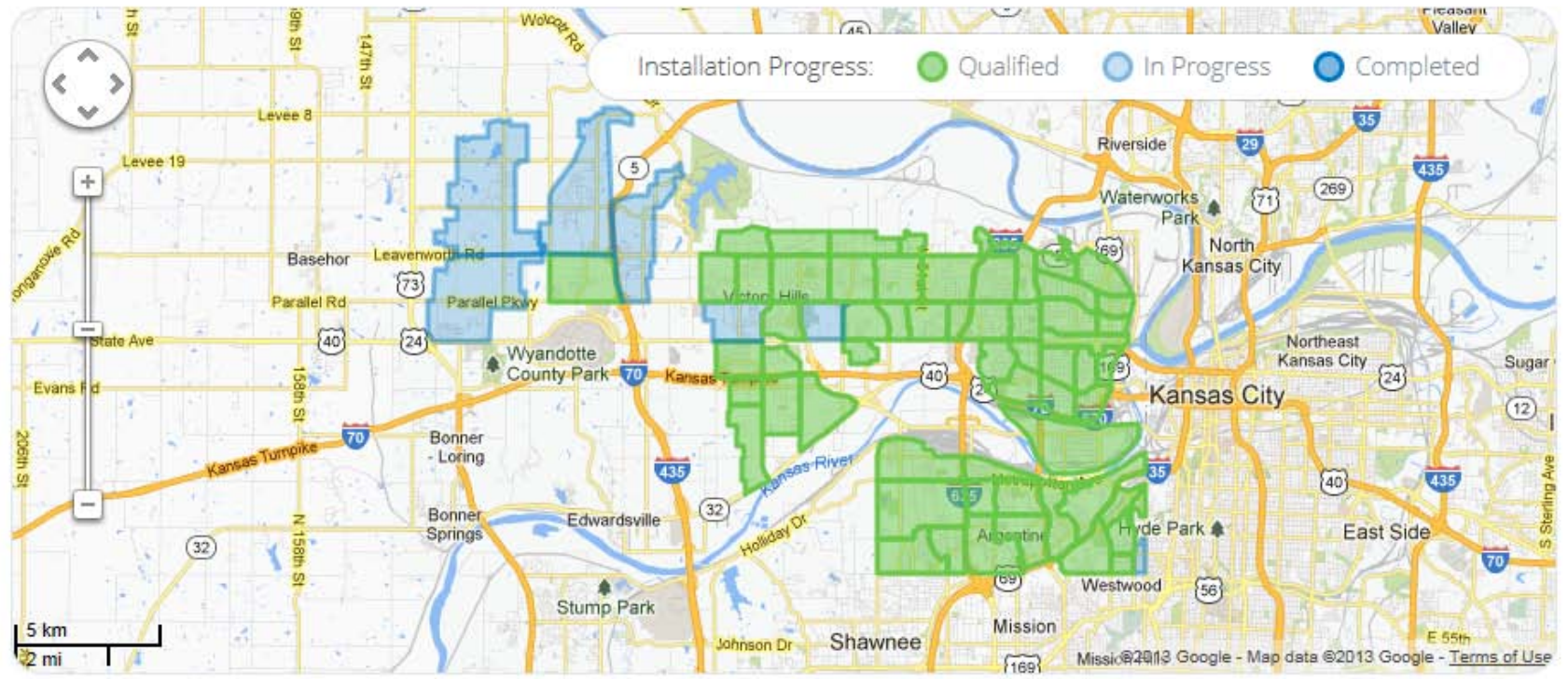
ASU ARIZONA STATE UNIVERSITY

CALIFORNIA INSTITUTE OF TECHNOLOGY

CASE WESTERN RESERVE UNIVERSITY EST. 1826

Colorado State University

Duke UNIVERSITY

FLORIDA STATE UNIVERSITY 1851

GEORGE MASON UNIVERSITY

Georgia Tech

HOWARD UNIVERSITY 1867

INDIANA UNIVERSITY

MICHIGAN STATE UNIVERSITY

NC STATE UNIVERSITY

PENNSTATE 1855

UAF UNIVERSITY OF ALASKA FAIRBANKS

THE UNIVERSITY OF ARIZONA

THE UNIVERSITY OF CHICAGO

CU University of Colorado Boulder

UF UNIVERSITY of FLORIDA

UNIVERSITY OF HAWAI'I

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN · CHICAGO · SPRINGFIELD

UK UNIVERSITY OF KENTUCKY

LOUISVILLE CARDINALS

MAINE

UNIVERSITY OF MARYLAND

M UNIVERSITY OF MICHIGAN

MU Mizzou University of Missouri

The University of Montana

Nebraska Lincoln

THE UNIVERSITY of NEW MEXICO

THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL

OU

USF UNIVERSITY OF SOUTH FLORIDA

UNIVERSITY of VIRGINIA

W UNIVERSITY of WASHINGTON

VirginiaTech 1872

WAKE FOREST UNIVERSITY

West Virginia University

2010

RFI > There is interest!

- Assessment of demand tools

- Generic RFP

- Ways to register interest.

2011

Kansas City, KS

2011

- High bandwidth networks in Seattle, Chicago

- Other mechanisms:
  - North Carolina RTP -
  - Orono, Maine
  - Gainesville, Fl

- Public Private Partnerships
  - Lafayette, La.
  - Chattanooga, Tn.

2013

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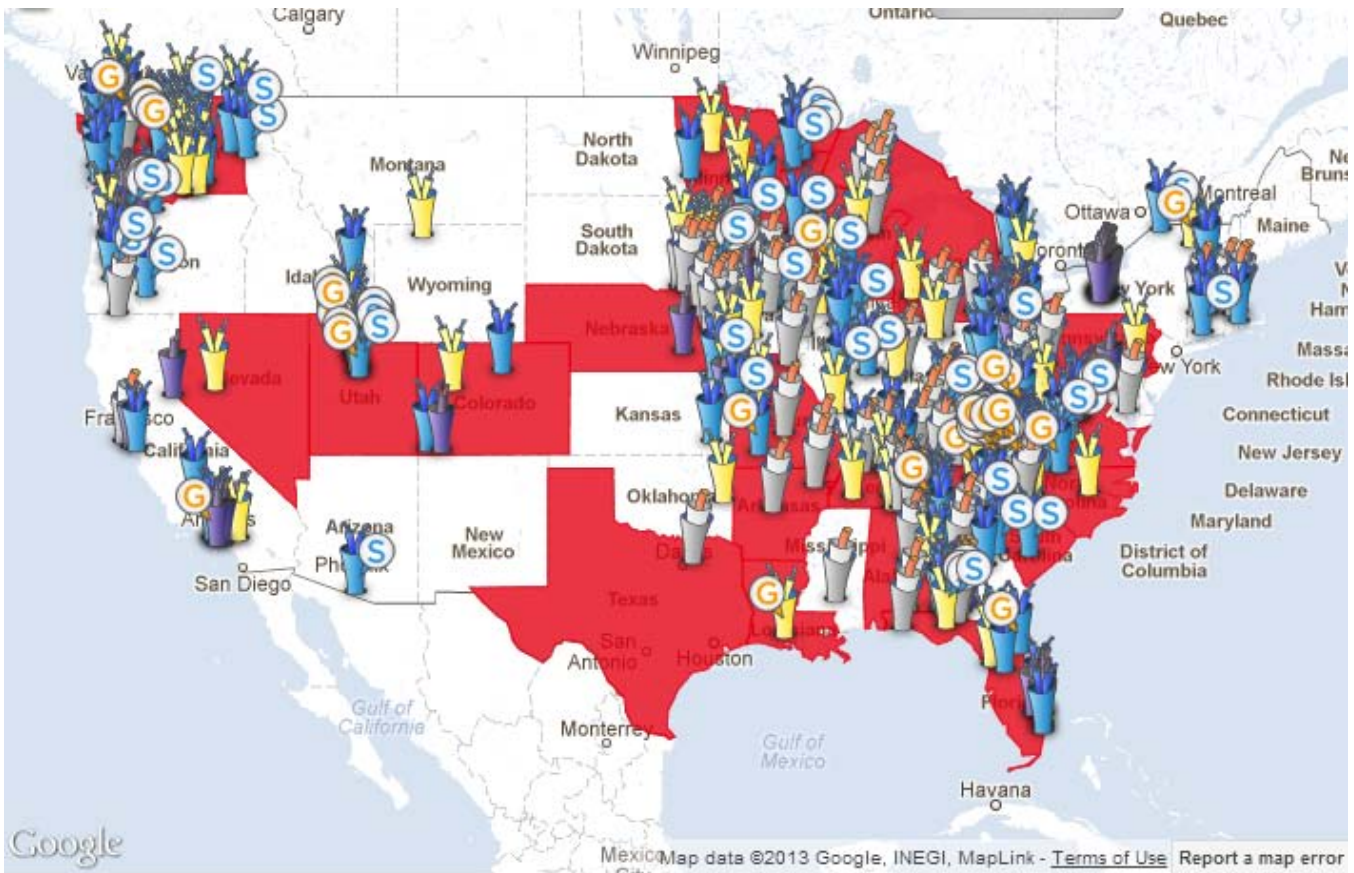
Click the controls below to turn on or off the markers.

- Citywide Cable
- Citywide Fiber
- Portions of City
- Dark Fiber
- Stimulus Project
- Gigabit Speeds
- States with Barriers

OVERVIEW

- Political Champion...With Clout!
- Strategy
- The "A" Team
- Funding, Funding, Funding....Funding
- Execution

Political Champion

Identify the person or persons that have the will and political strength to see the project through when NAYSAYERS are plentiful.

This person MUST:
- Have Vision
- Be a Strategic Thinker
- Have the ear and support of the Mayor

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Strategy

- Always ask "Why"
- Be willing to think differently
- Make the naysayers defend the "status quo" position
- Be willing to create new paradigms

The "A" Team

Choose the right team!

- Team leader - Political Champion
- Project Manager – Detail Guy
- Integrator – Designer/Installers
- Manufacturer of Equipment
- Bandwidth provider(s)
- Local power provider

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Funding, Funding, Funding

Nothing happens until there is funding.

Look EVERYWHERE for money...or hire someone who can find it for you. It is there.

- Federal/State Grants
- Local Infrastructure funding
- Departmental special projects