

# The State of Broadband in Wisconsin

August 3, 2016



# Broadband Strategy

## Governor's Top Priorities:

- **Jobs, Jobs & More Jobs** – attract more businesses
- **Workforce Development** – provide greater access to online training in job centers and libraries
- **Education Reform** – access online e-books, e-curriculum, Learning Mgt. Systems with BYOD 24X7
- **Infrastructure Investment** – increase broadband infrastructure investments and deployments
- **Lean Government** – increase self-service portal offerings

# Broadband Strategy

- **Established:**
  - Wisconsin Broadband Stakeholder Working Group
    - Chaired by PSC Angie Dickison & DOA David Cagigal
- **Developing an Advanced Cluster Plan:**
  - Public Private Partnerships will identify, prioritize and fund (Angie will cover funding opportunities) the following:
    - Economic Development
    - Schools & Libraries
    - Residential Areas
    - State Offices
    - FirstNet – PSAPs (9-1-1)

# Broadband Strategy

- **Economic Development:**
  - Governor's Listening Sessions
  - Cabinet on the Road
  - GigaBit Office Park
  - WEDC Relationships
  - PSC Business Surveys – Heat Maps
  - One Stop Business Portal
  - Population Demographics

# Broadband Strategy

- **Schools & Libraries (as well as Residences):**
  - Connected with Fiber 350+ BCN libraries
  - Nearly 900 of 2,300 schools & Libraries currently served by BCN
  - 93% of schools are currently served
  - Education reform is underway...
  - Developing a readiness rating (1 to 5) 5 - supported by the school board, superintendent, principal & TEACHERS with infrastructure (high speed broadband, WiFi and 1 computer per student)
  - Flipped-Classroom requiring study at home with broadband
  - TEACH statute changes:
    - Remove restriction of one school per district
    - Remove funding by category

# Broadband Strategy

- **State Offices:**
  - Over 1,000 endpoints
  - Currently modernizing equipment for higher speeds - next 2 years
  - Reducing multi-tenant locations to single routers

# Broadband Strategy

- **FirstNet: & PSAPs**
  - Federally mandated network for first responders
  - \$100B over 25 years
  - RFP completed (5/31/2016)
  - Evaluation, selection and award by end of 2016
  - Develop state plans - Opt In or Out by end of 2017
  - Build network 2018 – 2023
  - Modernize 139 PSAPs in 72 counties
    - Digital network
    - Cyber security defenses
    - Storage of digital artifacts

# Broadband Strategy

- **Badger Converged Network (BCN) - Guiding Principles**
  - Greater service/speeds
  - Reduced costs
  - Reliability
  - Secure
  - Future proof

# Broadband Strategy

## 2015 BCN Spend:

- **Schools & Libraries (900+)**
  - **TEACH program (Federal e-Rate & State USF) - \$18M**
    - Technology for Educational Achievement
- **State Offices (1,000+)**
  - **Balance of BCN charges - \$7M**

# Broadband Strategy

## State USF Dollars

TEACH

TEACH Grant \$7.5M

TEACH Grant \$1.5M

Infrastructure and  
1 to 1 Computing

Broadband

Local Infra.  
(CPE, WAN)

1 to 1

Teacher

## Federal Dollars

TEACH (E-Rate CAT I)

FCC E-Rate CAT II

CAF II

Broadband

Local Infra.  
(CPE, WAN)

Home

# Broadband Strategy

## New Contract Expectations:

- **Monthly Recurring Charges (MRC)**
  - Lower rates with greater speeds
- **CAPEX**
  - Minimal CAPEX required
  - Significant fiber infrastructure installed over the years
  - Eliminate state dedicated core and aggregator network and use commercially available network
- **Open Partnership**

# Broadband Strategy

- **Advanced Cluster Planning Benefits**
  - Highlight and map economic development needs by collaborating with UWEX, WEDC and PSC on business surveys
  - Share one stop business applications (20,000/Yr.)
  - Share school readiness
  - Share existing fiber infrastructure locations for state facilities, schools and libraries
  - Prioritize and leverage commercial, residential, state facilities, schools and libraries needs
  - Share FirstNet updates
  - Reduce speculative CAPEX spend through better planning & smart digging
  - **PROVIDE BROADBAND DEMAND TRANSPARENCY**

# Broadband Strategy

- **Wired for Success –  
Through Public Private Partnerships:**
  - **Achieve Guiding Principles**
    - Greater service/speeds
    - Reduced costs
    - Better Reliability
    - More Secure
    - Future proof
  - **Contribute to the Governor's Priorities**
    - Jobs, Jobs & More Jobs
    - Workforce Development
    - Education Reform
    - Infrastructure Investment
    - Lean Government

# OTHER FUNDING: CONNECT AMERICA FUND

Also known as CAF Phase II or CAF II

- FCC Program to expand broadband in Wisconsin's high cost areas.
- Total funding over 6 years:
  - AT&T: \$ 54 million
  - CenturyLink: \$332 million
  - Frontier: \$185 million

