

# Broadband state reports

## I. Key recommendations

### A. Goals

- 1. Ensure every citizen has access to broadband**
  - a) States: AZ HI AR CA DC TN VT
- 2. Treat broadband as a utility, common public infrastructure**
  - a) States VT NC DC

### B. Leadership

- 1. Develop comprehensive plan**
  - a) States MS HI MO WA
- 2. Describe broadband need/usage**
  - a) States WA MO VA
- 3. Provide/support leadership at the local level with statewide resources**
  - a) States CO IL CA VA
- 4. Adopt/support a national broadband policy**
  - a) States HI VT VA
- 5. Create a permanent coordinating entity**
  - a) States DC MI AZ MS HI ME NC VT LA NH TN WA VA NC
- 6. Form public private partnership (e.g. Connect Kentucky, Connect Tennessee, etc)**
  - a) States TN KT NC

### C. Tracking progress

- 1. Develop broadband maps**
  - a) States AR NC MO HI CA WA
- 2. Encourage accurate/timely data sharing by providers**
  - a) States NC VT
- 3. Complete, and keep up to date, an inventory of telecommunications infrastructure**
  - a) States NC

### D. Ways and means

- 1. Provide incentives and funding for broadband infrastructure**
  - a) States NC VT ME SC
- 2. Promote competition**
  - a) States TN
    - (1) TN
- 3. Encourage private providers to bring broadband to rural communities**
  - a) States MS NC
- 4. Describe tax and financial incentives for provider-investment**
  - a) States MO NH
- 5. Broadband service fund**
  - a) States NH WA
- 6. Simplify permitting and access to right of way**
  - a) States NH CA VT IL VA
- 7. Support continuous infrastructure upgrades**
  - a) States VT
- 8. Allow local government to provide wholesale services**
  - a) States MS NC
- 9. Leverage public works for fiber deployment**
  - a) States DC
- 10. Describe/emulate best practice programs in other states**
  - a) States MO NH
- 11. Modernize current statute and regulations**

## **12. Establish telecenters**

- a) States NC

### **E. Address underserved**

#### **1. Stimulate demand by increasing digital literacy**

- a) States ME NY MS HI AR NC CA VA NC

#### **2. Increase availability in low-income homes**

- a) States HI

#### **3. Increase availability in rural areas**

- a) States NC

#### **4. Close digital divide**

- a) States NY HI

### **F. Innovation**

#### **1. Encourage broadband innovation and research**

- a) States CA OR VA

#### **2. Create statewide e-health network**

- a) States CA OR

#### **3. Accelerate e-government**

- a) States NY OR

## **II. Key programs initiated**

### **A. State grants - infrastructure/ops for unserved and under-served communities/entities**

- 1. States VT NY OH

### **B. State-supported advocacy agency (e.g. "Connect Kentucky")**

- 1. States VT OH AR NC TN KY

### **C. State broadband council**

- 1. States AR WV OH NC

### **D. State broadband fund**

- 1. States WV

### **E. State broadband mapping**

- 1. States OH VA

### **F. Online toolkit for communities**

- 1. States VA

## **III. Recommended appropriations**

### **A. Broadband mapping**

- 1. States AR OH WA IL

### **B. Citizen education**

- 1. States OH AR WA

### **C. Grants program**

- 1. States IL NC

## **IV. Web links**

A. NY - <<http://www.oft.state.ny.us/oft/UniversalBroadband/overview.htm>>

B. Connected Nation -- <[http://connectednation.org/research/economic\\_impact\\_study/](http://connectednation.org/research/economic_impact_study/)>

C. MS -- <<http://www.msgovt.org/policy.html>>

D. NE -- <http://www.nitc.state.ne.us/reports/bstf.html>

E. HI -- <http://www.hbtf.org/>

F. AR - <<http://www.broadbandadvisorycouncil.arkansas.gov/>> <<http://www.connect-arkansas.org>>

G. VT -- <<http://www.telecomvt.org/>>

H. NC -- <http://www.e-nc.org>

I. AZ -- <<http://www.arizonatele.com/atic/default.htm>>

J. CA -- <[http://www.calink.ca.gov/pdf/CBTF\\_FINAL\\_Report.pdf](http://www.calink.ca.gov/pdf/CBTF_FINAL_Report.pdf)>

K. CO --

<<http://www.colorado.gov/cs/Satellite?c=Page&childpagename=Innovation%2FINLayout&cid=1192458212697&pagename=INWrapper&rendermode=preview>>

L. NH -- <http://www.nheconomy.com/broadband-action-plan.aspx>

<<http://www.ltgov.mo.gov/ruralhsi/index.htm>>

M. WV --

<[http://www.legis.state.wv.us/Bill\\_Text\\_HTML/2008\\_SESSIONS/RS/BILLS/HB4637SUB.htm](http://www.legis.state.wv.us/Bill_Text_HTML/2008_SESSIONS/RS/BILLS/HB4637SUB.htm)>

N. OH -- <<http://www.ohiobroadbandcouncil.org/index.shtml>>

O. PA -- <[http://www.tccp.org/html/1,1128,About\\_Us,00.html](http://www.tccp.org/html/1,1128,About_Us,00.html)>

P. TN -- <<http://www.tennessee.gov/tra/bbtaskforce/Tenn. Broadband Task Force Report and Recommendations.pdf>> <<http://www.connectedtennessee.org/>>

Q. WA -- <<http://dis.wa.gov/hiswg/default.htm>>

<<http://www.wutc.wa.gov/webimage.nsf/0/0C107F2AECEC013A8825733800684FCF>>

R. IL -- <<http://illinoisbroadbanddeployment.pbwiki.com/>>

S. VA -- <[http://www.otpba.vi.virginia.gov/broadband\\_roundtable.shtml](http://www.otpba.vi.virginia.gov/broadband_roundtable.shtml)>

T. SC --

<<http://www.scstatehouse.gov/citizensinterestpage/BroadbandTechnology&CommunicationStudyComm/broadband.html/>>

U. NC -- <<http://e-nc.org>>

## V. Statement of values

### A. Goals

#### 1. Internet is essential infrastructure

a) States MI NH HI DC OR TN

#### 2. All businesses/citizens should have access to broadband

a) States TN IL AZ WV OR VA SC NC

#### 3. Increase broadband penetration

a) States NY HI CA CO

#### 4. Affordability

a) States NY

(1) NY

### B. Economic

#### 1. Participate in the global economy

a) States AZ AR CO HI OH IL

#### 2. Participate in national economic stimulus/rollout

a) States HI VT Connected Nation

#### 3. Important for agriculture, education

a) States MO CA

#### 4. Spur economic development

a) States CO DC MO NY HI NH OH WA

### C. Address the underserved

#### 1. Needed in rural areas

a) States MO

#### 2. Increase demand -- Increase digital literacy and awareness

a) States MS DC NY NH

#### 3. Increase demand -- Increase availability of computers -- gateway to Internet adoption & literacy

a) States NY OH

### D. Ways and means

#### 1. Develop strong leadership (state and local)

- a) States NY HI
- 2. Public/private collaboration**
  - a) States NY KY MO VA
- 3. Market-driven strategies**
  - a) States MS WV
- 4. Community-driven strategies**
  - a) States VA
- 5. Leverage previous investments**
  - a) States NY OH
- 6. Improve information sharing between gov't entities**
  - a) States NY VA
- 7. Shared inventory of infrastructure for planning**
  - a) States VA

**E. Citizen engagement, e-democracy**

- 1. States NY

**VI. Where we've been**

**A. History of initiatives**

- 1. States MN OR AZ VA

**B. Low penetration - historical figures**

- 1. States HI MS VT DC Connected Nation

**C. Digital Divide**

- 1. States DC

**VII. Where we are today**

**A. Describe state rank -- demographic and economic indicators (e.g. livability, income, economy)**

- 1. States NH

**B. Rankings**

**1. Describes state rank -- Internet access speed**

- a) States HI AR NY TN

**2. Describe penetration -- percent of households subscribing to high speed Internet**

- a) States CO OH NY CA TN VA

**3. Describe availability**

- a) States NH NY VT CA CO WV OH TN WA NC Connected Nation

**4. Describe rate of adoption**

- a) States TN WA

**5. Describe "uneven" deployment in different parts of the state -- from very good to poor (rural/urban, rich/poor)**

- a) States NH WV CA CO OH WA

**6. Describe cost -- price per megabit**

- a) States HI

**7. Describe number of communities receiving USDA Rural Community Connect Broadband grants**

- a) States MS

**C. Surveys**

**1. User survey**

- a) Do you use the Internet?
- b) Do you use a computer?
- c) What's your income?
- d) Is broadband critical infrastructure?
- e) State take a more active role?

- f) Will broadband increase if left to market forces?
- g) Do you need broadband?
- h) Use Internet at work?
- i) Would you work from home?
- j) States NH OH

## **2. Business survey**

- a) Does your business use the Internet?
- b) Does your business use a computer?
- c) What's your annual revenue?
- d) States OH TN

## **3. Provider survey**

- a) Should state subsidize BB build-out?
- b) Barriers imposed by local siting/right-of-way?
- c) Barriers imposed by make-ready costs?
- d) Tax issues?
- e) Drivers of increased demand?
- f) Desire for statewide coordination?
- g) Role of fixed wireless?
- h) States NH

## **D. Barriers and constraints**

- 1. States HI WA

## **VIII. Where we want to be**

### **A. Goals**

**1. Increase adoption -- set a goal -- \_\_\_% of businesses/citizens will have access to broadband speeds by a given date, 100% by a given date**

- a) States DC NH AR VT CA CO WV OR VA NC

**2. Expand availability in rural and underserved areas**

- a) States OR TN

**3. Increase speeds**

- a) States TN

**4. Ensure affordability**

- a) States OR TN

**5. Adopt/implement effective policy**

- a) States OR

### **B. Provide benefits**

**1. Applications**

- a) Health care
- b) Public safety
- c) First responder
- d) Education
- e) Telework
- f) States CA OR HI IL

**2. Economic impact/jobs**

- a) Attract investments -- at the community level
- b) Reports
  - (1) Connected Nation (Federal-level view)
- c) States NC DC NY VT OR

**3. Better government -- more efficient, e-government, more effective**

- a) States NH NY OR

### **C. Approach**

**1. Provide shared open-access/utility infrastructure**

- a) States HI
- b) Reports ITU

See document: [D-REG-TTR.10-2008-SUM-PDF-E.pdf](#)

**2. Regulation**

- a) Reports
  - (1) OECD - OECD POLICY GUIDANCE ON CONVERGENCE AND NEXT GENERATION NETWORKS

See document: [40869934.pdf](#)

**3. Encourage providers to expand in unserved/under-served communities**

- a) States NY Connected Nation

**4. Use incentives to spur deployment**

- a) States NH CO OR

**5. Provide leadership, "broadband champions"**

- a) States CO WA

**6. Leverage public and private assets**

- a) States NC NY VT

**7. Foster competition**

- a) States NY

**8. Encourage community participation**

- a) States DC NY WA

**IX. How are we going to get there**

**A. Leadership**

**1. Establish definitions for broadband activities, facilities and services**

- a) States OR

**2. Define unserved and underserved**

- a) States OR

**3. Define affordable**

- a) States OR

**4. Develop strategies**

- a) States CO OH NY HI

**5. Set a goals**

- a) States NH VT OR

**6. Recommend legislation/regulations to support additional deployments**

- a) States CO NH

**7. Enshrine vision in legislation**

- a) States HI VT

**8. Consolidated coordinating entity**

- a) States AR HI NH

**B. Organizing**

**1. Provide information and tools to leaders**

- a) States OR IL DC VA

**2. Make broadband deployments in unserved areas a public policy priority**

- a) States VA

**3. Improve coordination of BB initiatives and outreach**

- a) States NH

**4. Mobilize stakeholder collaboration (providers, experts, leaders)**

- a) States NY NH Connected Nation

**5. Explore local government roles -- e.g. share excess capacity on public service wireless networks.**

a) States CO

**6. Provide training to citizens**

a) States AR IL NY VA

**7. Partner with existing and new service providers**

a) States VT

**8. Public private partnerships**

a) States OR

**9. Involve local and state governments in planning & implementation**

a) States OR

**C. Financial resources**

**1. State acts as "anchor tenant" to spur deployment**

a) States CO

**2. Leverage existing organizations and State buying power**

a) States VA

**3. Statewide deployment fund**

a) States WV VT

**4. Provide grants**

a) States VT WA NC NC

**5. Provide loans**

a) States WA

**6. Access to Universal Service Fund**

a) States OR

**D. Remove barriers**

**1. Simplify permitting and access to right of way**

a) States CO VT NH

**2. Remove disincentives for deployment/investment**

a) States OR VA

**E. Track progress**

**1. Obtain regular consumer feedback (polls, forums, etc.)**

a) States NH OR

**2. Develop maps, tracking data**

a) States NH AR CO OR WA NC Connected Nation

**3. Metrics**

a) Increase in availability

b) Expand speed in each tier of service

c) Increase in adoption and use

d) Increase in technology literacy

e) Increase in service-provider participation in deployment and adoption initiatives

f) Increase in end-user satisfaction

**4. Review inventory and demand data to propose underserved areas to invest in**

a) States OR

**X. Broadband functionality (tiers of service)**

A. States WV OH NY CA NH WA IL