



**2009-2010**  
**Building Communities Educational Series**

**Community Development in a Difficult Economy ...**  
**Readying for the Rebound**

Brought to you by the Center for Community & Economic Development  
 Co-sponsored by the Sustainability and Energy Teams  
 University of Wisconsin-Extension



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 611# to self mute  
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**Today's Presenters**



**Andy Lewis**  
 Community Development Specialist, Center for Community and Economic Development, U.W. Extension

Andy has been with U.W. Extension for 26 years and has served as an Extension specialist in the Center since 2001. Lewis currently focuses on developing educational programs and tools that assist communities in developing strategies for improving jobs, income and quality of life.



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Broadband and E-Commerce: Putting the "E" in Community and Business, January 19, 2010

**Andy Lewis**  
[andy.lewis@uwex.edu](mailto:andy.lewis@uwex.edu)

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**Purpose of Today's Program**

- Provide you with an overview of E-Commerce...
  - For Communities
  - For Business
- Discuss the Role Communities Can Play in Facilitating an Appropriate E-Commerce Environment
- Provide you with a few resources to assist you with that process

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**Name This Technology**

Once upon a time.....

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[http://localtechwire.com/business/local\\_tech\\_w](http://localtechwire.com/business/local_tech_w)



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## The Road to Prosperity



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## Change Is Happening Quickly

From Dial Up Access to.....?



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## The Internet has changed our lives

(Especially the way we teach, the way we learn, the way we conduct business, the way we communicate...)

- The Internet service enables applications.
- Broadband (or bandwidth) is required!
- The Internet is a necessity these days, it's not a luxury.
- The change is not over, it has just begun.



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### Remember These?



DEC Rainbow (Burnett County UWEX Office, 1983)



Compaq "Portable"  
Grant County UWEX Office, 1986

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### Don't confuse promising new tools with panaceas

"In short, access to telecommunications technology may be a necessary condition for rural economic growth, but it is far from sufficient." (*Digital Deliverance*, p. xiv)



Dr. Judson Edwards, Director of the Center for International Business, Troy University

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### The Digital Divide

"Though economic development benefits are possible for remote areas in the information economy, research studies suggest that rural communities throughout the United States are struggling to adapt and apply information technologies for economic and social development." (*Digital Deliverance*, p. 2)

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**Governor Bob Riley, Alabama:**

"Rural communities offer so much in quality of life and have so much potential. But without sufficient access to broadband, these communities and their residents will remain technologically isolated, and thus, disadvantaged."

"It only makes sense that if broadband technology enables a person to work anywhere, naturally people will live and work where quality of life is high"  
(Digital Deliverance, p. 121)

<http://www.timesdaily.com/article/20090123/ARTICLES/012303277?Title=State-wants-high-speed-internet-available-everywhere-in-Alabama>

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**Traditional Approach To Economic Development**

Economic development strategies have traditionally invested in infrastructure:

- Highways
- Water sources and sewer lines
- Reliable electric and gas services
- Railroads and ports
- Affordable land



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**New Economic Development Strategies**

Our information economy requires new economic development strategies to keep our communities economically viable

Technology planning is an essential element of new economic development strategies



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### “Digital Deliverance: Dragging Rural America Kicking and Screaming , Into the Information Economy” by Judson Edwards

“From the analysis of state policy, two significant conclusions are recognized with regard to strategies for encouraging broadband access. First, assuring rural access to broadband telecommunications begins with an inventory of existing infrastructure”.

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### Planning follows infrastructure investments?



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### National Broadband Plan Delayed until March 17, 2010



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**2002 U.S. Department of Commerce Study:**

*Because broadband technologies are so new (and continue to evolve), there are no definitive studies of their actual impact on regional economic growth and tech-led economic development.*

Understanding Broadband Demand: a Review of Critical Issues. Technology Administration, Office of Technology Policy, available at: [http://www.ta.doc.gov/reports/TechPolicy/Broadband\\_020921.pdf](http://www.ta.doc.gov/reports/TechPolicy/Broadband_020921.pdf)

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**2001: The \$500 Billion Opportunity:**

Study prepared for Verizon by Criterion Economics estimated that:

Broadband, acting through changes to consumers' shopping, commuting, home entertainment and health care habits, would contribute an extra \$500 billion in GDP by 2006.

Source: Crandall, R. and C. Jackson (2001), The \$500 Billion Opportunity: The Potential Economic Benefit of Widespread Diffusion of Broadband Internet Access, mimeo, Criterion Economics, Washington, DC.

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**2002 New Millennium Research Council:**

Estimated 1.2 million jobs would be created from the construction and use of a nationwide broadband network.

Source: Pociask, S. (2002), Building a Nationwide Broadband Network: Speeding Job Growth, white paper prepared for New Millennium Research Council by TeleNomic Research, available at <http://www.newmillenniumresearch.org/event-02-25-2002/jobspaper.pdf>

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## 2002 Brookings Institution report

Estimated that failing to improve broadband performance could reduce U.S. productivity growth by 1% per year or more.

Source: Ferguson, C. (2002), The United States Broadband Problem: Analysis and Recommendations. Brookings Institution Working Paper at [http://www.brookings.edu/views/papers/ferguson/working\\_paper\\_2002\\_0531.pdf](http://www.brookings.edu/views/papers/ferguson/working_paper_2002_0531.pdf)

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## Community Studies began to filter in around 2003....

- South Dundas Ontario municipal fiber system
- Cedar Falls Municipal Broadband Network
- Lake County Florida Municipal Broadband Network

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## Does Deployment of Information Communications Technology Promote Economic Development Success?

"...It appeared **unlikely** that a 'build it and they will come' strategy regarding ICT deployment had much effect on economic development in these communities"

Source: *Do Information Communication Technologies Promote Rural Economic Development?* Kenneth Pigg & Laura Crank, *Journal of the Community Development Society*, Vol. 36, No. 1, 2005

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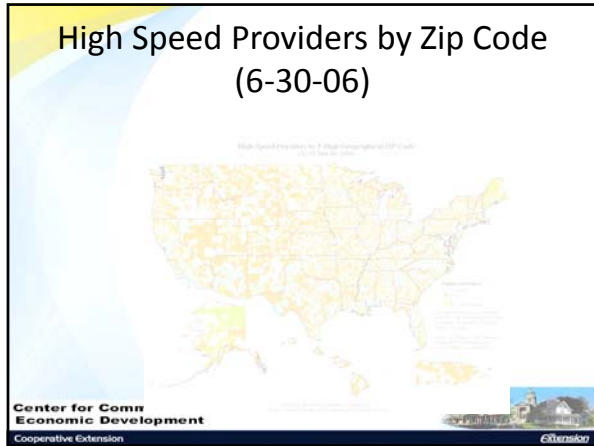
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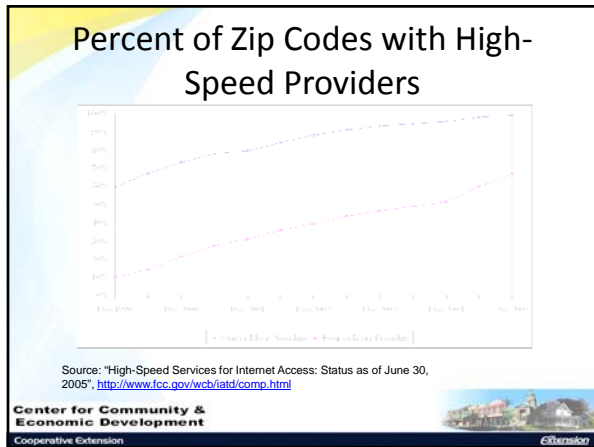
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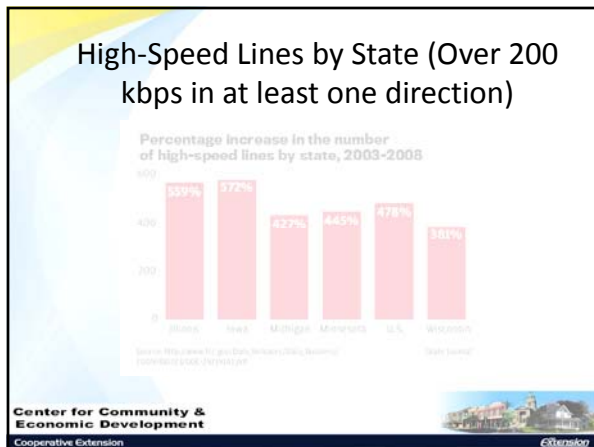
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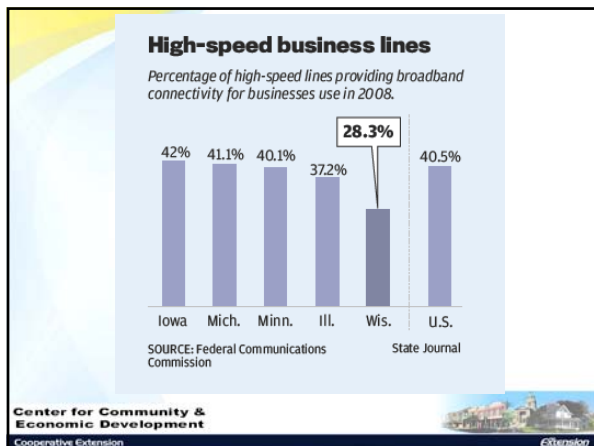
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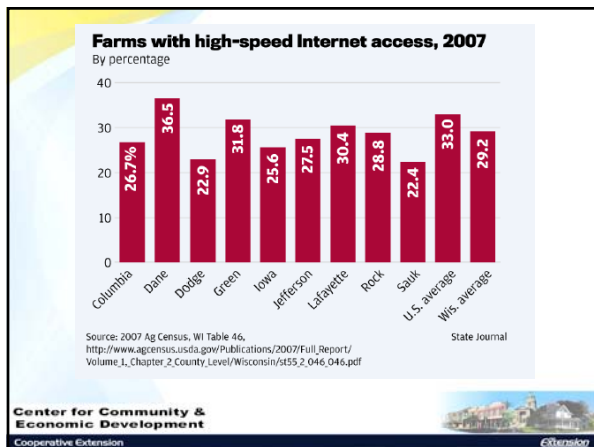
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### High-Speed Subscribership by Population Density

Persons per Square Mile <sup>1</sup>	Percentage of Zip Codes with at Least One High-Speed Subscriber						
	Jun 2000	Jun 2001	Jun 2002	Jun 2003	Jun 2004	Jun 2005	Jun 2006
More Than 3,147	97.3 %	98.1 %	98.7 %	98.9 %	98.9 %	99.3 %	99.4 %
947-3,147	95.8	97.1	98.2	98.2	98.5	99.0	99.5
288-947	93.4	95.6	97.5	98.4	98.5	99.2	99.4
118-288	86.7	92.3	95.2	96.9	97.7	98.8	99.2
67-118	77.9	87.5	93.0	96.4	97.6	98.6	98.8
41-67	65.4	80.9	88.0	93.8	96.4	98.2	98.9
25-41	54.5	72.8	81.0	90.4	94.3	97.6	98.4
15-25	39.2	58.9	70.0	83.3	88.5	95.7	97.1
6-15	31.3	51.1	60.9	77.3	83.5	93.7	96.5
Fewer Than 6	23.0	36.8	49.6	68.5	73.4	84.3	89.3

[http://www.fcc.gov/Bureaus/Common\\_Carrier/Reports/FCC-State\\_Link/IAD/hspd0107.xls](http://www.fcc.gov/Bureaus/Common_Carrier/Reports/FCC-State_Link/IAD/hspd0107.xls)

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From 1999 to 2002, American Communities with broadband access did significantly better than those without



Source: *Measuring Broadband's Economic Impact*, Lehr, Osorio, Gillett, Sirbu, 1-17-06, [http://cfp.mit.edu/groups/broadband/docs/2005/MeasuringBB\\_EconImpact.pdf](http://cfp.mit.edu/groups/broadband/docs/2005/MeasuringBB_EconImpact.pdf)

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### Employment Impacts from Broadband Deployment



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### Summary...

- For every one percentage point increase in broadband penetration in a state, non-farm employment is projected to increase by 0.2 to 0.3 percent per year
- The relationship between state output of goods and services and broadband use is positive, but the results are not statistically significant
- U.S.: +300,000 jobs
- WI: +6,912\*
- Green County: +38 jobs\*

\*Estimates based on 2006 annual average employment

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**Former U.S. Secretary of Commerce William Daley:**

“...to realize the full potential of this digital economy, every person and every business must be able to participate fully and make their own unique contribution to its development (1999)”.

Source: *Digital Deliverance*, Judson Edwards, p. 23

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Home broadband users	
<b>Total adults</b>	95%
Men	83
Women	92
<b>Race/Ethnicity</b>	
White, Non-Hispanic	87%
Black, Non-Hispanic	52
Hispanic (English- and Spanish-speaking)	47
<b>Age</b>	
18-29	79%
30-49	87
50-64	88
65+	28
<b>Household income</b>	
Less than \$20,000*	42%
\$20,000-\$40,000	62
\$40,000-\$74,999	73
\$75,000+	83
<b>Education attainment</b>	
Less than High School	29%
High School	46
Some College	73
College +	83
<b>Community type</b>	
Urban	87%
Suburban	84
Rural	47

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**Community Economic Preparedness**



[www.uwex.edu/ces/cced/cedpi.htm](http://www.uwex.edu/ces/cced/cedpi.htm)

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## What is Broadband?

Federal Communication Commission (FCC) definition:

- Any connection that transfers data at speeds greater than 200 kbps
- Problem: Quality video-over-Internet pay-for-view needs 700Kbps

Alternative definition:

- Connection that does not limit application (i.e. VoIP, web-based video streaming)



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## How Does a Community Prepare for Broadband

**Do Your Home Work:**

- Research the needs of residents and businesses (does the "digital divide" exist in your community?)

**Organize**


- Get the community involved (technology planning committee)

**Lobby**

- Leverage relationships with local telephone, cable, and Internet services (make sure you are getting your fair share of their capital budgets)

**Take Action**

- Put together a plan of attack, then implement the plan



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## What is Technology Planning? Our Definition


**Inventory:** check out what you have now:

- An inventory (a survey) of the telephone (wire line and wireless), cable television, data, video, and internet access (collectively know as "connectivity") available in your community now

**Compare: look for gaps:**

- What your citizens, businesses, and institutions need now and what connectivity they will require in the future (gaps)

**Create:** a plan to fill any connectivity gaps and address future needs



Have now	Will need
	<input checked="" type="checkbox"/>

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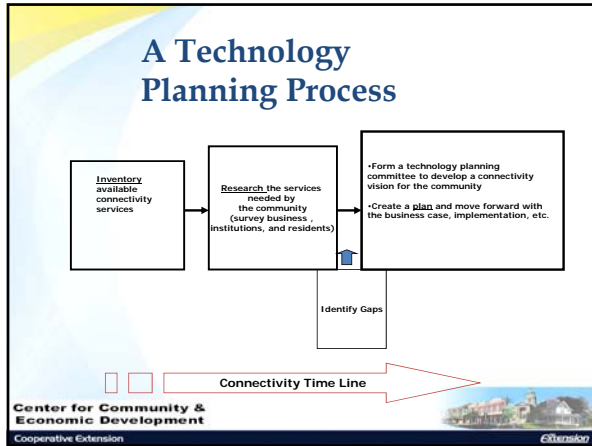
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## Vision & Objectives

What do you desire to accomplish?  
 What are the measurements of success?  
 What user groups do you want to support?  
 What issues & opportunities do you want to address?  
 What are decision points to move forward?  
 (Don't overlook the obvious things like training, education, and access to computers and the Internet for the disadvantaged!)

Caution: be aware of "silver bullet" consultants, attorneys, equipment vendors, and others promising revenues and other riches from technology deployment. Remember, every community is unique and cookie cutter approaches don't work.

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## Questions

<p>What is the role (catalyst, enabler, provider) of your city or county government?</p> <p>Who are the existing providers and what services do they offer?</p> <p>Who is using connectivity services?</p> <p>What is the appropriate level of involvement?</p> <p>What are the service gaps?</p> <p>What are the risks (doing nothing or becoming proactive)?</p>	<p>What are the regulatory and legal restrictions?</p> <p>What customer segments are underserved?</p> <p>How can we future proof any investments?</p> <p>What set of parameters should be used to gauge the progress?</p> <p>What technologies are appropriate to meet our unique community needs?</p> <p>What are the next steps towards a technology plan?</p>
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### WebWise Design, John Wells, Fennimore, WI



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<http://www.webwisedesign.com/index.html>

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### Great River Plastics, Pat Obma, Lancaster, WI



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<http://www.greatriverplastics.com/index.html>

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### Chisholm, Minnesota 4,701



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<http://www.potica walnut.com/potica.shtml>

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### RBJ's Spreadable Fruit, Kim Samuelson, Crookston, MN, Population 7,929



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### Language Line Services, Monterey, CA



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### HomeMovie.com, John Larsen, Winthrop, Washington, pop. 349



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## E-Commerce Case Studies:

University of Minnesota Extension:  
<http://www.accesse.info/CaseStudies>

Washington State University:  
<http://cbdd.wsu.edu/projects/rural/ruralbridges/casestudies.html>

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**SRDC - The National e-Commerce Extension Initiative**

With specialized training, online courses, and other resources, SRDC provides a complete e-commerce learning experience for rural extension professionals.

SRDC offers a variety of e-commerce training opportunities, including:

- Online courses
- Webinars
- Workshops
- Conferences

For more information, visit the SRDC website at <http://srdc.msstate.edu/e-commerce/>

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## National e-Commerce Extension Initiative

**Complete Curricula**

- A Beginner's Guide to e-Commerce (2009)
- Connecting Rural Communities (2009)
- e-Commerce as a Strategy for Improving Business Viability (2009)
- Helping Farmers Reach Global Markets (2009)
- Internet Strategies to Improve Farm Business Management (2009)
- Marketing Food Specialty Products Online (2009)
- Strengthening Competitive Advantage of Rural Businesses (2009)
- Web Site Basics: A Primer for Improving Small Businesses (2009)

[http://srdc.msstate.edu/e-commerce/learning\\_center.html](http://srdc.msstate.edu/e-commerce/learning_center.html)

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### Web-based Entrepreneurs and Inventors Club??



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### Economic Development Attraction Strategies Using the Web



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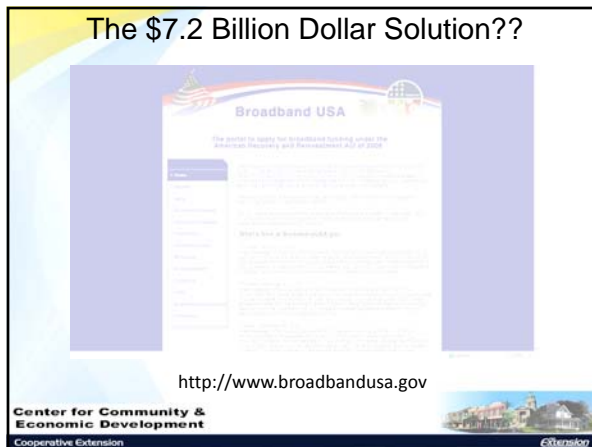
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### The \$7.2 Billion Dollar Solution??



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**Federal Legislation Trends:**

“From the federal legislative perspective, policies are directed toward private firms supplying the broadband telecommunications infrastructure to rural Americans....based on the review of legislation, predominantly rural states are not only falling behind in broadband telecommunications service but also in the development of telecommunications related policy.” (Digital Deliverance, P. 60)

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**North Carolina: Broadband for all**

“North Carolina, through an agreement between the state and its three largest telecommunications companies, BellSouth, Sprint, and GTE, every citizen of North Carolina is guaranteed broadband Internet access by 2003.” (Digital Deliverance, p. 47)

Former Gov. Jim Hunt, Dec 10, 2009:

“Today, more than 80 percent of all North Carolina households, including mine and others rural areas, have access to high-speed Internet service. We still have much more to do until every citizen’s home can have access to affordable broadband access.”

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**Wisconsin: 2005 DOA Contract Awarded to SBC for BCN**

“If WBAA is awarded this contract, our companies will provide optical metro Ethernet products **throughout** Wisconsin. As a result of this contract, WBAA will be able to expand the geographic reach of our Ethernet services **to rural** Wisconsin communities and metropolitan areas alike. The deployment of these next-generation Ethernet services will be possible **within 9-12 months** if WBAA is awarded the BCN contract”.

“Wisconsin’s entire local telecommunications industry has agreed to deploy optical Ethernet services throughout Wisconsin as a result of winning the BadgerNet Converged Network contract. CenturyTel is already providing switched Ethernet services in some areas of the state, and the rest of the WBAA **anticipate a very rapid deployment of services throughout Wisconsin**”.

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## 2007 Wisconsin Act 42 (Cable Deregulation Bill)

Feb, 2007 report by the conservative Wisconsin Policy Research Institute said the cable bill could lower video prices here by between \$83 to \$149 a year if Wisconsin followed the experience of other states.

TV4US Wisconsin, a group whose backers included AT&T, said on its Web site that with video competition, consumers "begin to see cost savings almost immediately" over cable companies' prices.

[http://host.madison.com/wsi/news/local/govt\\_and\\_politics/article\\_c56763b2-c102-11de-a1f0-001cc4c002e0.html](http://host.madison.com/wsi/news/local/govt_and_politics/article_c56763b2-c102-11de-a1f0-001cc4c002e0.html)

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## What Really Happened?

A University of Minnesota study found that prices often rose even in states that passed video competition laws, including Wisconsin.

The study found prices for expanded basic video here rose 28 percent between December 2006, a year before the state's law took effect, and February 2009.

<http://www.hhh.umn.edu/centers/stpp/pdf/VideoFranchisingReport.pdf>

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## AT&T says more still needs to be done:

"While a national broadband strategy should be built on top of these resounding successes, there remain significant issues that require thoughtful solutions. Although 8 percent of U.S. households still lack access to terrestrial broadband service, simply increasing the supply of broadband is not a magic bullet. We face a potentially greater challenge on the "demand" side of the equation. According to the most recent data from the Pew Internet and American Life Project, only 55 percent of adult Americans have broadband Internet access service in their homes — meaning that roughly 40 percent of American households that could get broadband service decline to do so".

[http://www.pewdata.com?url=http://www.att.com/Community/about\\_us/public\\_polic\\_v100\\_P01\\_Broadband.pdf&id=dn15497KFOQj00m7ZuJkx-VXa-mabckwepjmu118c-mu08Scd-28vvet-DCAwDzQv0k0u0p-AFGQNHqJnFE9ghX0LJKY5hVQZ0X\\_Zw](http://www.pewdata.com?url=http://www.att.com/Community/about_us/public_polic_v100_P01_Broadband.pdf&id=dn15497KFOQj00m7ZuJkx-VXa-mabckwepjmu118c-mu08Scd-28vvet-DCAwDzQv0k0u0p-AFGQNHqJnFE9ghX0LJKY5hVQZ0X_Zw)

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However, AT&T in its filing doesn't offer a way to bridge the gap for that 20 percent of Americans relying only on landlines, nor does it address what an all-IP future means for the 33 percent of Americans who have access to broadband but do not subscribe (although those broadband laggards might be paying for a digital voice product from a cable provider).

<http://aigaom.com/2009/12/30/att-to-fcc-let-my-landlines-go/>



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## Questions?

**Professor Andy Lewis**  
Community Development Specialist

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E-mail: [andy.lewis@uwex.edu](mailto:andy.lewis@uwex.edu)

Webpage:

<http://www.uwex.edu/ces/cced/andyLewis.cfm>

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
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**Next session**

**February 16, 2010 – Retaining and Attracting People as an Economic Development Strategy**  
 Community Development Educator Will Andresen, University of Wisconsin-Extension Iron County

Did you know that according to Live First, Work Second author Rebecca Ryan 3 out of 4 Americans respond that a cool city is more important than a good job? But that doesn't represent us, right? Michigan's Cool Cities Survey found nearly 7 in 10 recent college graduates agreed as did almost 75% of young people Iron Co. Wisconsin (pop. 6,197) and Gogebic Co. Michigan (pop. 16,043). Learn why a focus on retaining and attracting young professionals may be one of the most important community building strategies you employ—and why being a "cool city" may be even more important in your community than Seattle or St. Paul.

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
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**Archive Access**

To access an archived version of today's program, go to:  
<https://www.livemeeting.com/cc/wislineweb/view>

- Enter Name
- Recording ID: **Bldg Comm-100119**
- Recording Key: (Leave Blank)
- Click View Recording
- Click the ICON for either Microsoft Office Live Meeting High Fidelity Presentation OR Microsoft Office Live Meeting Replay
- This archive will remain for two weeks on the web

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**Please don't forget**

- Close out of browser
- Disconnect phone call

**Thank You!**

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