



The e-NC Authority
March 18, 2008

Jane Smith Patterson
Executive Director
www.e-nc.org

The e-NC Authority:
Creation, Mission, Tracking of High-Speed
Internet Access, and Build-Out Challenges

Mission



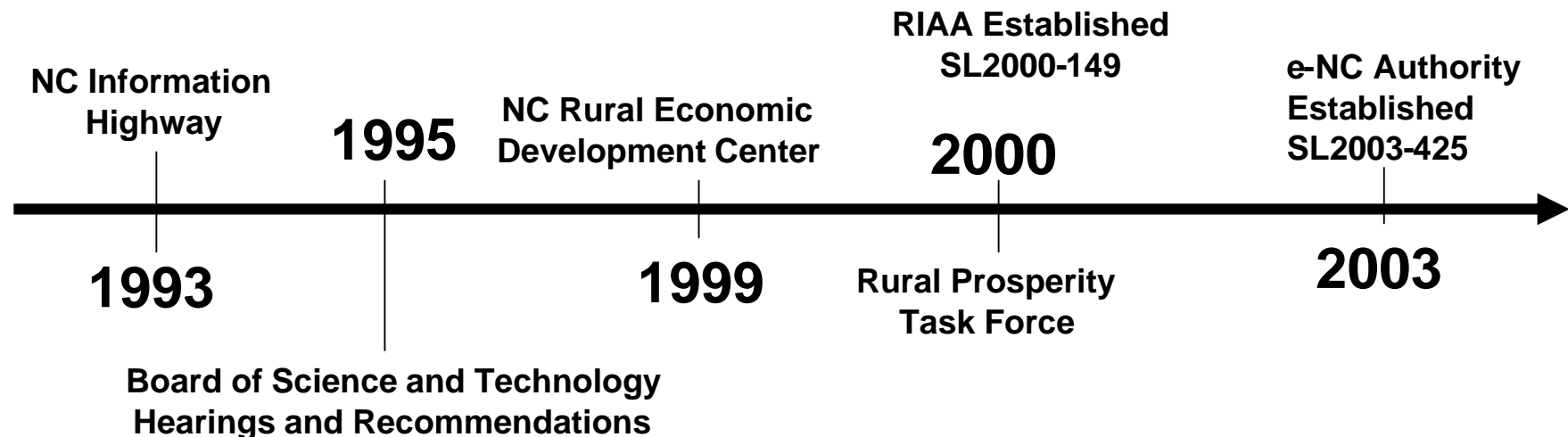
The e-NC Authority is dedicated to ensuring that all North Carolina citizens, businesses and communities are aware of, know how to use and have access to high-speed Internet services at affordable prices, creating local opportunities for technology-based economic development and job creation.



www.e-NC.org

What Was/Is the Promise?

- More educated population with higher paying jobs.
- For N.C., this means a focus on technology based economic development with ubiquitous fiber!
- The goal: to transition our state from a manufacturing economy to a more diverse information economy.



Rural Internet Access Authority Goals

January 2001 – December 2003

- ✓ Ensure local, dialup service available statewide
- ✓ Complete, and keep up to date, an inventory of telecommunications infrastructure
- ✓ Establish Telecenters
- ✓ Identify and establish training programs
- ✓ Promote increased use of computers and the Internet
- ✓ Ensure that high speed Internet service is available to rural North Carolina citizens and businesses
- ✓ Provide Advice and Counsel to the N.C. General Assembly



www.e-NC.org

The e-NC Authority: Legislative Mandate

- Continued as the e-NC Authority in 2003, under S.L. 2003-425
- Established as the primary Internet policy and planning body for the rural and urban distressed areas of the state
- Mandated to track availability of and deployment of high-speed Internet service across North Carolina
- Advocate and serve as catalyst for infrastructure build-out in underserved areas
- In July 2006, sunset was extended to Dec. 31, 2011

The e-NC Authority: Operations

- Received \$30 million in private foundation funding from MCNC in 2000
- 8 staff members (3 are part-time)
- Governed by 15-member board – appointed by House, Senate and Governor
- Created by the state, but did not receive state funding for operations until 2005



e-NC Focus – Two-fold

1) Tracking and Supply-Building

- 100 County Report on Availability of High-Speed Internet Services (released annually)
- GIS Mapping of Telecommunications Infrastructure
- Service Inquiries
- Connectivity Incentives Grants

2) Demand-Building

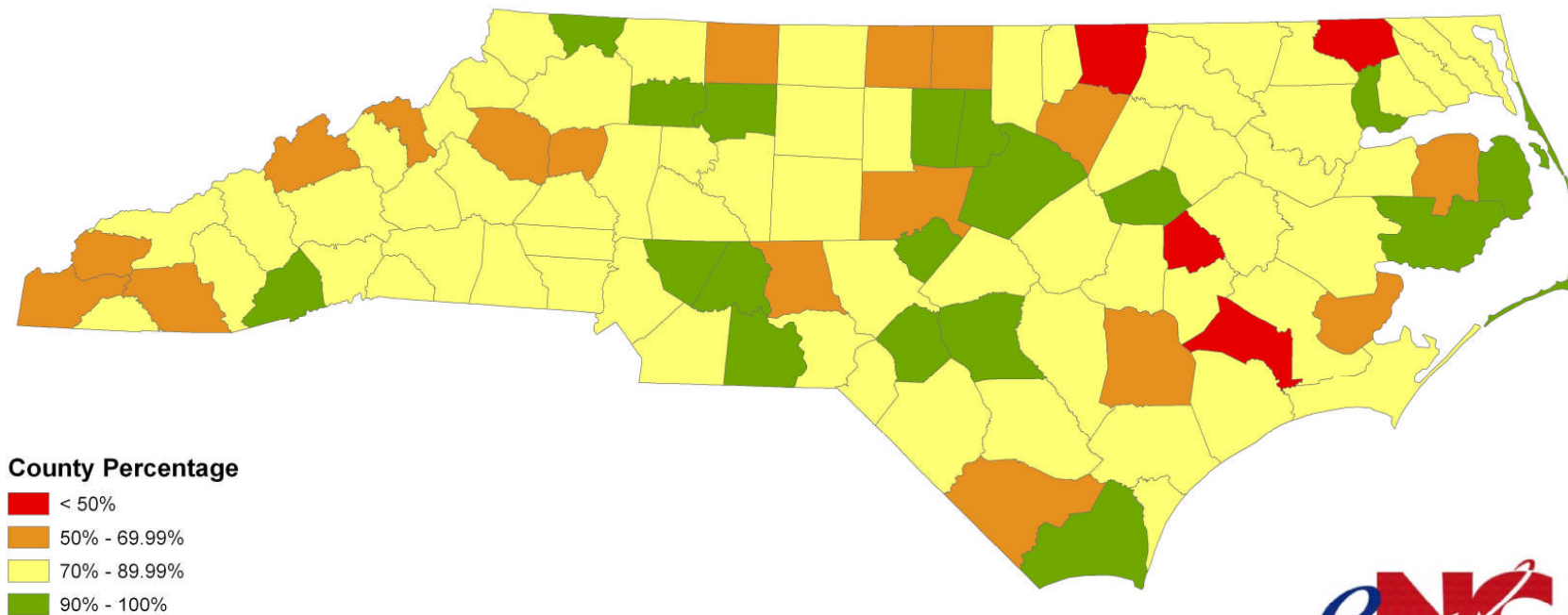
- Citizens Survey
- e-Communities, public access, digital literacy training
- Program and applications development



Where Are We Now?

Households with Access to High-Speed Internet Service

2006 High Speed Internet Access
DSL and Cable Modem Composite



Based on data supplied by service providers. Current 12/31/06.



8/28/07

Telecom Service Providers in N.C.

- **ILECs - Embarq, AT&T, Verizon**
- **Independent Telephone Companies**
- **Telephone Cooperatives**
- **Cable Companies**
- **Wireless & Satellite providers**



Explanation of Technologies Tracked in 100 County Report

- DSL (# of lines to number of households)
- Cable Modem

Not included:

- Wireless
- Satellite
- Fiber



Varying Speeds

SLOW



- Dial-up
- Cellular
- ISDN
- Satellite
- Digital Subscriber Line (DSL)
- Cable
- T1
- Fiber

FAST

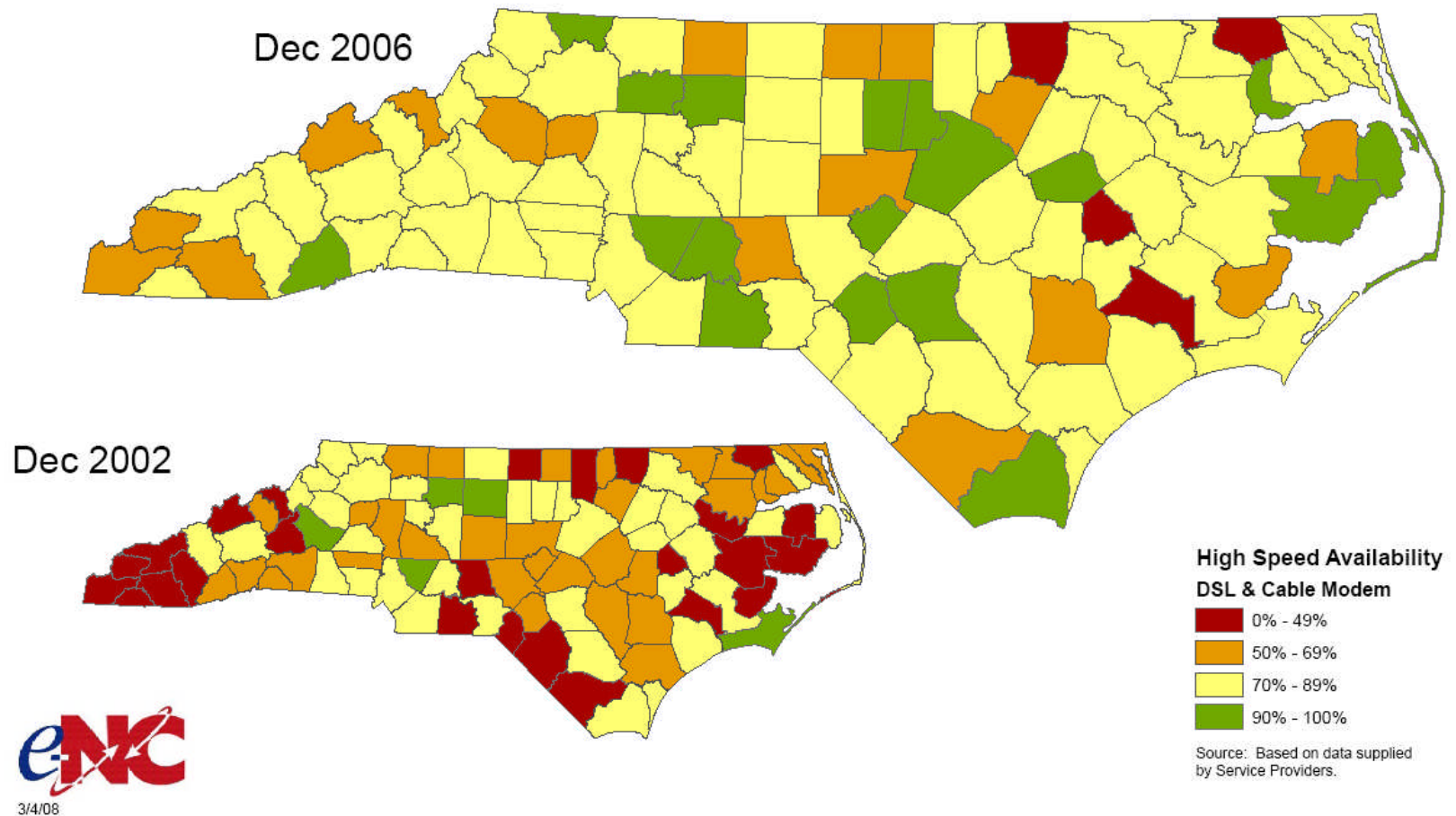
Note: The e-NC Authority does not track speeds of various services, but providers give a range of speeds for different services.



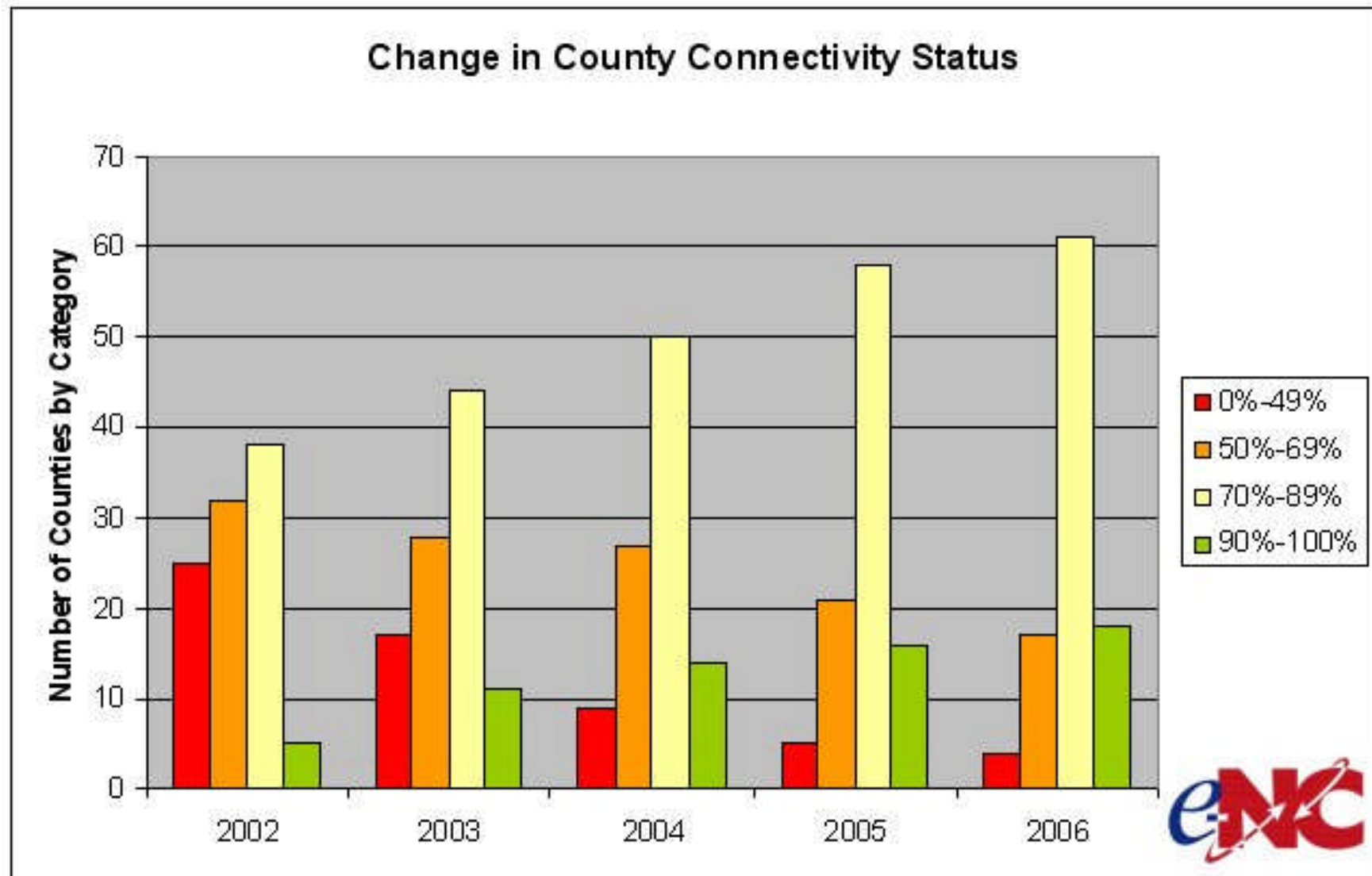
www.e-NC.org

Change in Connectivity, 2002 - 2006

High Speed Internet Access Increase in North Carolina

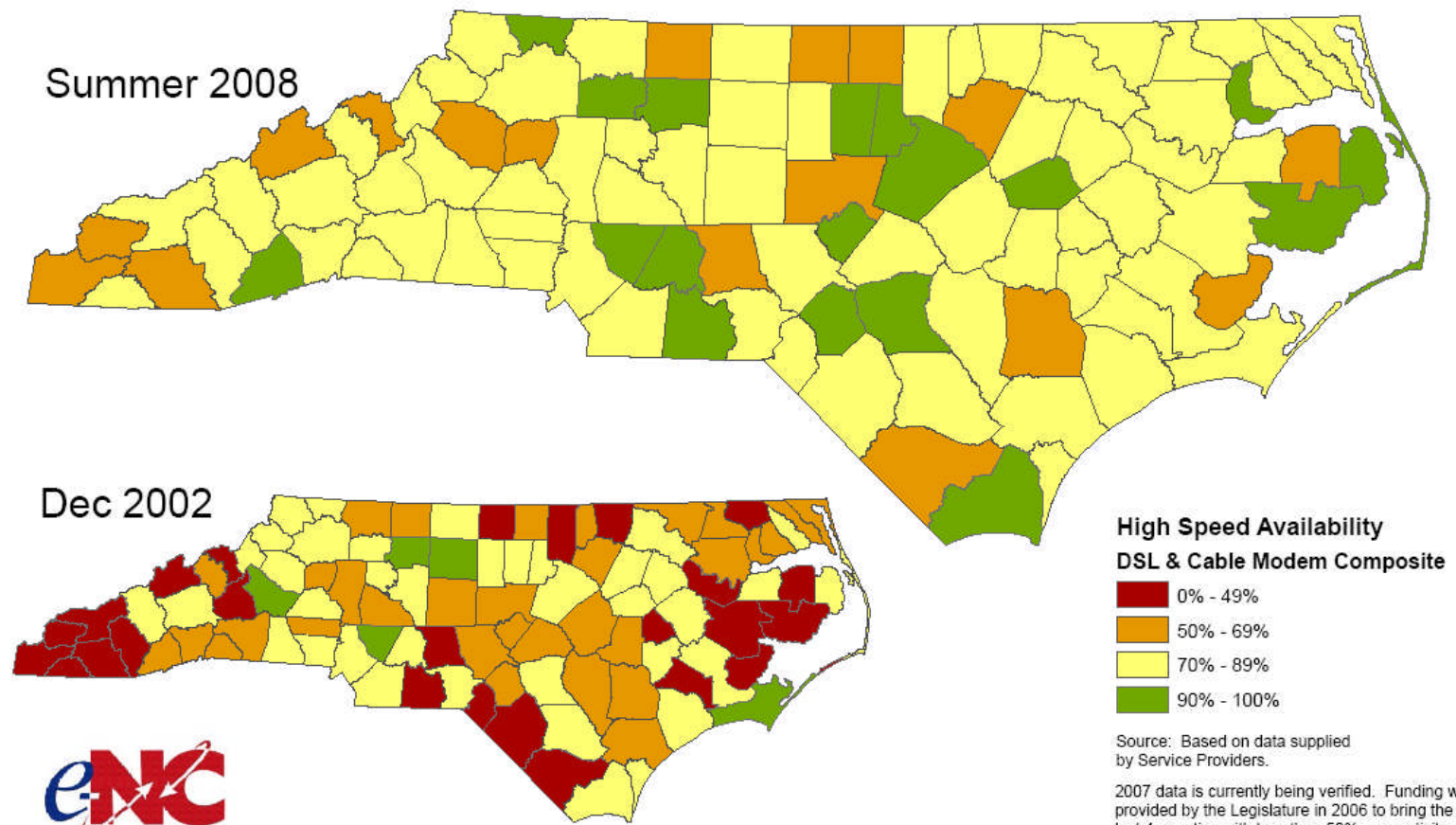


Change in Connectivity, 2002 - 2006



Expected Change in Connectivity As of Summer 2008

Progression of Counties Towards 100% - Update



e-NC Connectivity Incentives Grants, 2007-2008*

Requested

In 2007, e-NC requested \$7.5 million recurring, to bring all counties up to at least 70% access.

50 to 70% (17 counties)

Pamlico – 51.43%

Tyrrell – 53.25%

Duplin – 53.35%

Person – 53.95%

Graham – 56.00%

Mitchell – 58.25%

Cherokee – 59.04%

Caswell – 60.23%

Columbus – 61.46%

Alexander – 62.39%

Madison – 65.32%

Chatham – 66.82%

Franklin – 66.96%

Stokes – 68.07%

Montgomery – 69.87%

Caldwell – 69.88%

Macon – 69.90%

Funded

Awarded for service to unserved areas of counties where less than 50% of the households have high-speed Internet access (cable modem or DSL) available:

Less than 50% (4 counties)

Jones – 45.07%

Warren – 46.89%

Gates – 47.96%

Greene – 49.10%

*** 2006 Data shown**



www.e-NC.org

Along the Broadband Highway

- Must have scaleable, targeted technology incentives for last mile service to un-served areas:
- Require at least \$5.5 million recurring to bring all counties:

Up to 90% est. \$40.8 million @ \$171.73/line

Up to 80% est. \$10.9 million @ \$171.73/line

Up to 75% est. \$ 5.2 million @ \$171.73/line




Build-out Challenges


- e-NC focus – last-mile service
- “Business case” challenge – telecom service providers rarely expand infrastructure as a gesture of goodwill
- Divide and conquer – N.C. is deceptively large (85 of 100 counties are considered to be rural)
- Topography challenges – mountains, bodies of water, forests
- Teaching them to fish – many elected leaders have lacked basic digital literacy and understanding
- Ubiquitous training needed

Build-out Challenges

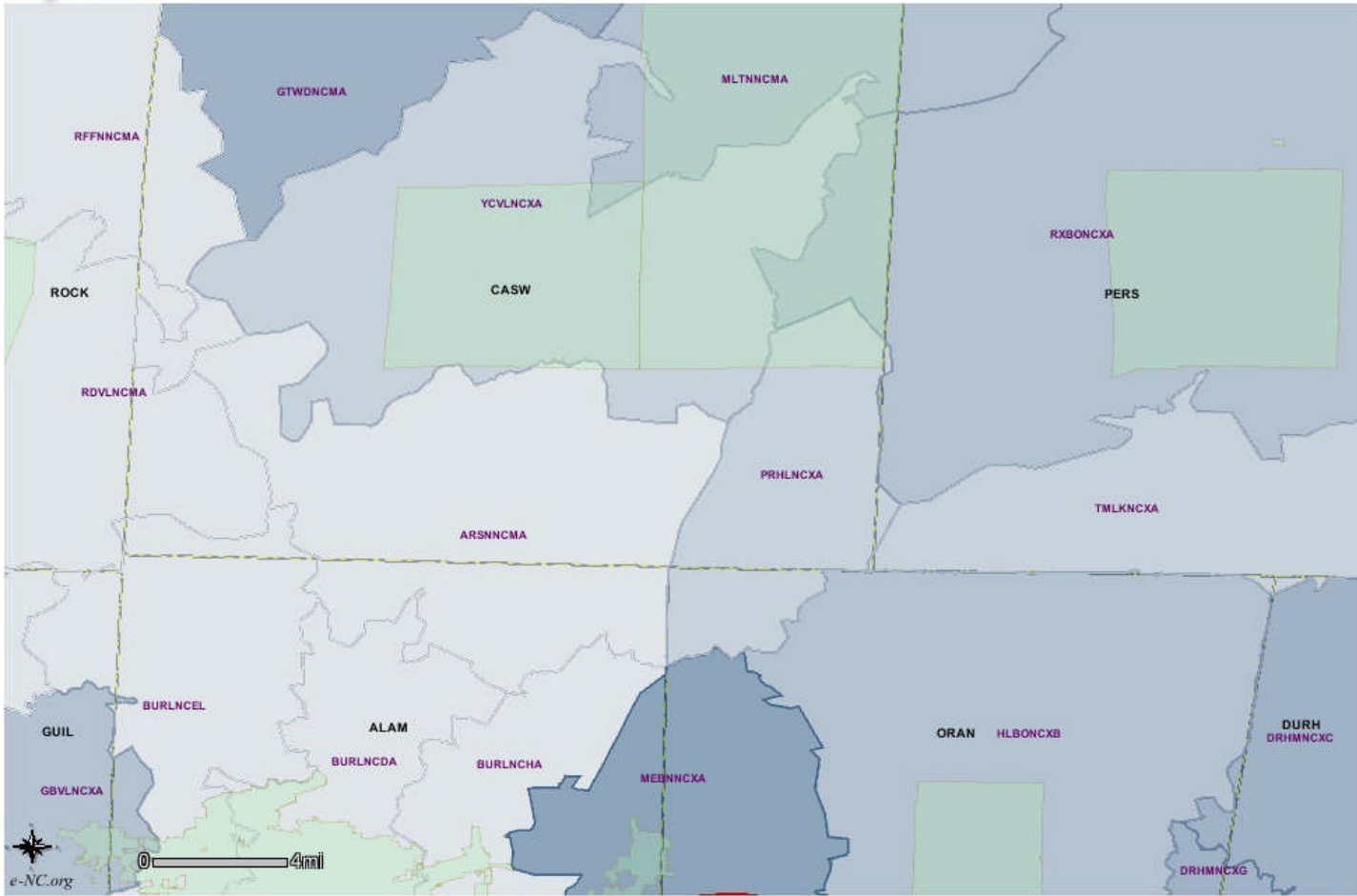
- Taking a Flyer – PINE, PANGAEA, MAIN, America Connect, Cape Lookout, Belhaven (MCNC monies)
- DOT Issue
- Local Government Regulations


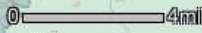
Example of e-NC's GIS Mapping Program





Active Tool Mode:
Identify



Map Data Layers

You must zoom in for greyed-out layers to become available for viewing.

Refresh Map

Visible	Active	Layer Name
<input type="checkbox"/>	<input type="radio"/>	Wireless Towers
<input type="checkbox"/>	<input type="radio"/>	CLLI Central Offices
<input type="checkbox"/>	<input type="radio"/>	Distressed Schools
<input type="checkbox"/>	<input type="radio"/>	Public Internet Access Sites
<input type="checkbox"/>	<input type="radio"/>	TV Stations
<input type="checkbox"/>	<input type="radio"/>	Water Towers
<input type="checkbox"/>	<input type="radio"/>	TowerMap Towers
<input type="checkbox"/>	<input type="radio"/>	Health Care Facilities
<input type="checkbox"/>	<input type="radio"/>	Public Airports
<input type="checkbox"/>	<input type="radio"/>	Unincorporated Communities
<input type="checkbox"/>	<input type="radio"/>	Railroads
<input type="checkbox"/>	<input type="radio"/>	BlueRidge Parkway
<input checked="" type="checkbox"/>	<input type="radio"/>	Interstates
<input type="checkbox"/>	<input type="radio"/>	Primary Highways
<input type="checkbox"/>	<input type="radio"/>	Secondary Highways
<input type="checkbox"/>	<input type="radio"/>	Local Streets
<input type="checkbox"/>	<input type="radio"/>	Major Rivers
<input type="checkbox"/>	<input type="radio"/>	Wireless Tower Service Areas
<input checked="" type="checkbox"/>	<input type="radio"/>	Cable Modem Service Areas
<input type="checkbox"/>	<input type="radio"/>	Activated Cable Franchise Areas
<input checked="" type="checkbox"/>	<input checked="" type="radio"/>	% DSL Capable Lines
<input type="checkbox"/>	<input type="radio"/>	Wire Center

% DSL Capable Lines (Click to open layer info. page.)

Record ID	CLLI Code	SPU Service Location ID	Provider Name	Website	City	Has DSL	DSL Service Loop Quality Pct	DSL From_Client Max_Speed	DSL From_Client Min_Speed	DSL To_Client Max_Speed	DSL To_Client Min_Speed
1	ARSNNCMA	ARSNNCMA	AT&T	WWW.ATT.COM	ANDERSON	Yes	0	1500 Kb/s (?)	256 Kb/s (?)	0 Kb/s (?)	128 Kb/s (?)



GIS Mapping

Mappingby LegislativeDistricts

The e-NC Authority as a model Comprehensive programs through the years

North Carolina as a Model for Other States

The e-NC Authority has been recognized by states across the country as a model for increasing broadband.

- First in the nation to have a comprehensive GIS-based mapping program
- Only state to track availability data in the 100 County Report model
- Tracking of citizen use via Citizens Surveys
- First state to launch the grassroots “e-communities” program (2001)



North Carolina as a Model for Other States

The e-NC model differs from other states due to the comprehensive research and programs included in e-NC's model:

- Supply-building and demand-building
- Research, program implementation and evaluation
- Grant programs working with all 85 rural counties plus the Eastern Band of the Cherokee Indians, plus urban-distressed areas



Awards to the RIAA / The e-NC Authority

- 2002 National Association of State Chief Information Officers - Award of Recognition
- 2002 U.S. Dept. of Commerce Secretary's Recognition Before Press (best model for deploying broadband)
- 2005 Microsoft Unlimited Potential Award
- 2006 N.C. Technology Association 21 Award (Top Gov't/Nonprofit Award)
- 2006 Southern Growth Policies Board - Innovator Award
- 2007 Grassroots.org Techie Award - Top Technology Software in US for Nonprofits
- 2007 IBM-Recognition of top program for digital literacy and e-communities



States Seeking Guidance from e-NC

Partial Listing:

- Alabama
- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Georgia
- Illinois
- Iowa
- Kansas
- Kentucky
- Maine
- Michigan
- Mississippi
- Pennsylvania
- South Carolina
- Tennessee
- Vermont
- Virginia
- Washington
- West Virginia



Work of e-NC has been possible due to:

The foresight of the leaders of North Carolina in:

- Creating the N.C. Information Highway
- Creation of the Rural Internet Access Authority in 2000, and of the e-NC Authority in 2003
- Securing \$30 million in private investment from MCNC
- Cultivating relationships with, and support from, the service providers
- Development of a cadre of local support leaders through e-NC programs



Highlightsof e-NC Work: Key Research and Publications 2004-2007

- ***High-Speed Internet Access in North Carolina: A 100 County Report***
By The e-NC Authority
(Released annually since 2002, latest release September 2007)
- ***Business Connections; Using Technology to Build Success: A Handbook for e-Business Utilization***
By The e-NC Authority
(Released August 2007)
- ***Business Connections; Webcasting and Podcasting: Creating Electronic Media for Small Businesses***
By The e-NC Authority and Doug Foster of Performance Podcasts.
(Released August 2007)
- ***e-Communities Tool Kit: Working Together to Expand Technology Access and to Compete in the Global Economy***
By The e-NC Authority
(Released November 2006)
- ***The Time for Technology-Based Economic Development is Now: e-NC Business & Technology Telecenter Tool Kit***
By The e-NC Authority
(Compiled in 2005, Released May 2006)
- ***Feasibility Study for Developing Regional Education Networks***
By The e-NC Authority for the N.C. General Assembly
(Released May 2006)



Highlightsof e-NC Work: Key Research and Publications 2004-2007 (cont.)

- ***Creating Wealth, Regional Development through Cross-Border Collaboration***
For the e-NC Authority, By Nick Maynard, Aaron McKethan, and Rawley Vaughan, Carolina Center for Competitive Economies, Kenan Institute for Private Enterprise, Kenan Flagler Business School, UNC-Chapel Hill
(Conducted in 2005, Released March 2006)
- ***e-NC Business & Technology Telecenter Evaluation 2005***
For The e-NC Authority, By Dr. Catherine Renault, Research Triangle Institute International
(Released December 2005)
- ***North Carolina Local E-Government Utilization Project, External Evaluation Report***
For The e-NC Authority, By Dr. Harvey A. Goldstein, UNC-Chapel Hill
(Released December 2005)
- ***North Carolinians Online: Trends from the Citizens Surveys 1999-2004***
For The e-NC Authority, By Dr. Ed Feser, The University of Illinois, Urbana-Champaign
(Released May 2005)
- ***High-Speed Internet Connectivity in NC's Distressed Urban Areas***
For The e-NC Authority, By Dr. Robin Howarth and Dr. William Rohe, Center for Urban & Regional Studies, The University of NC at Chapel Hill
(Released May 2005)



Early RIAA Research

KPMG Infrastructure Study
Citizen Surveys
Annual 100 County Reports

Universities Involved:

Appalachian State Univ.
East Carolina University
N.C. State University
UNC-Chapel Hill
Western Carolina Univ.
Harvard University

Free Manuals:

Broadband
Building Communities
e-Business
Communications
e-Communities
Grid Computing
Wireless Primer



Key Programs

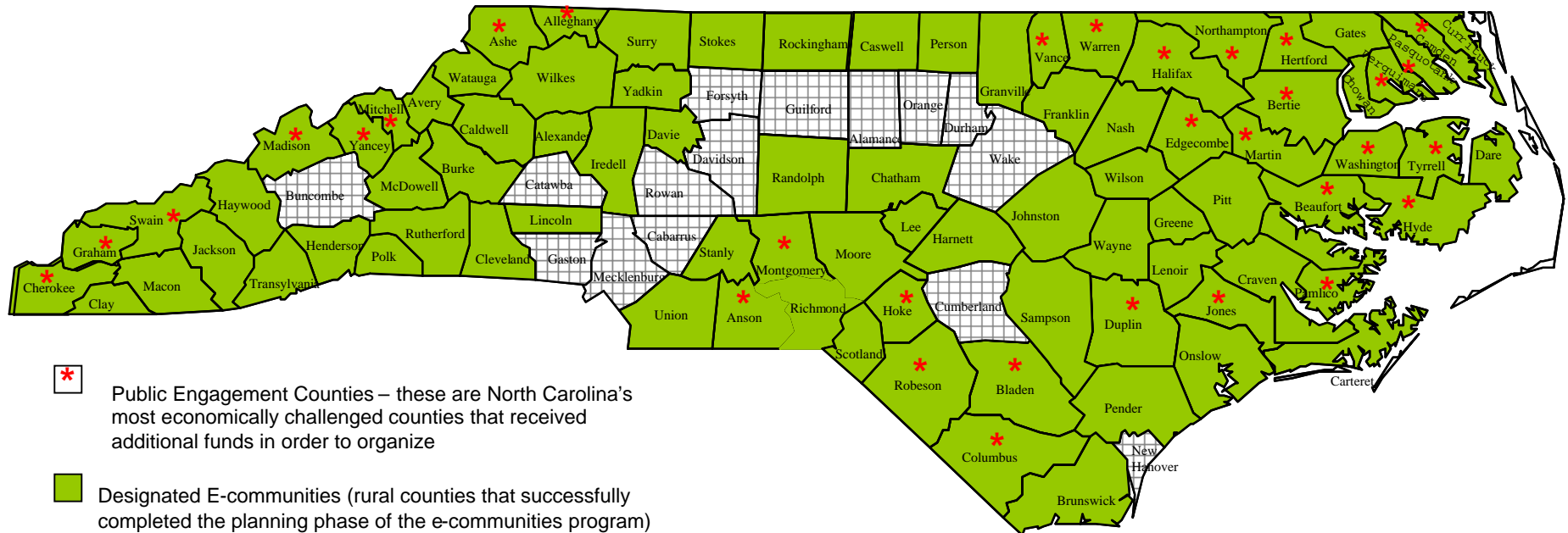
- Public Engagement
- e-Communities:
 - e-Champions and Trainings
 - Planning Grants (Connectivity, Public Access, Digital Literacy, Applications)
 - Implementation Grants
 - Public Access Site Grants
- Digital Literacy Training
- Business & Technology Telecenters, Phase I
- Connectivity Incentives Grants
- Tech Force
- Applications (e-learning, e-health, e-business, e-government)
- LEG-UP



BuildingDemand

e-Communities Program

(Launched in 2001)



Public Engagement Counties – these are North Carolina's most economically challenged counties that received additional funds in order to organize



Designated E-communities (rural counties that successfully completed the planning phase of the e-communities program)



Urban Counties (Note: 2003 legislation authorized E-NC to work with distressed areas of urban counties)

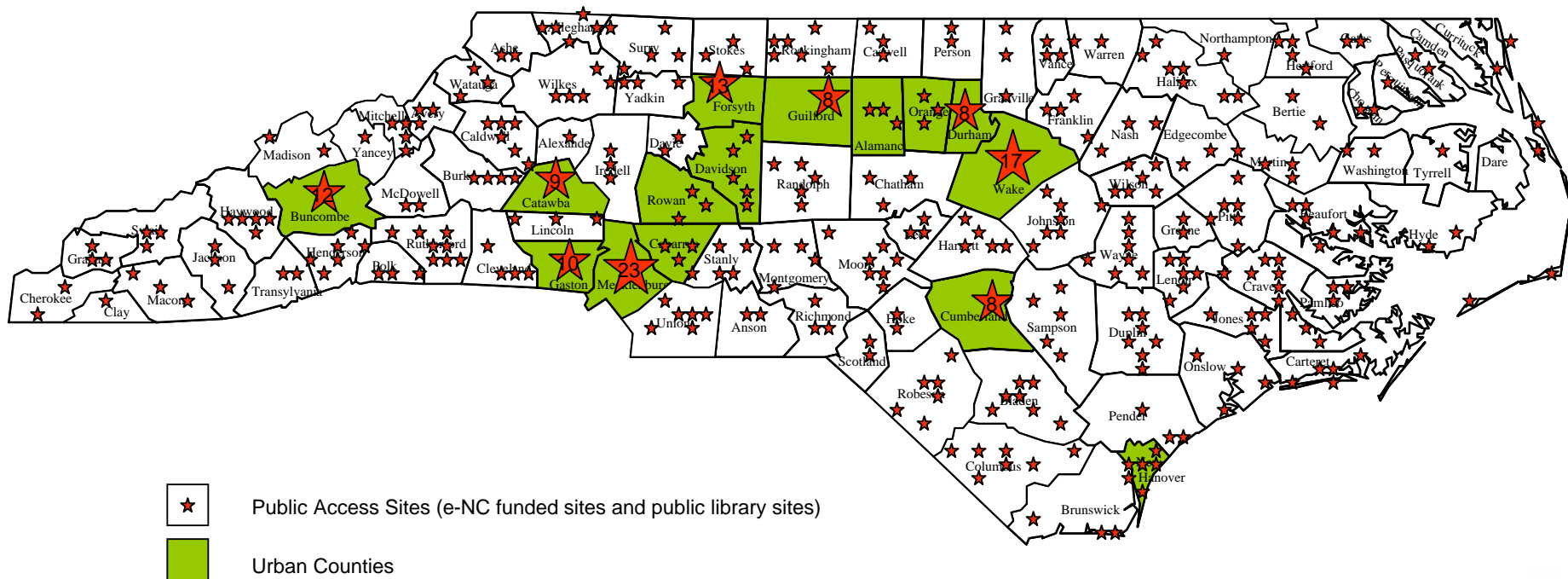
Rural: A county with a density of fewer than 200 people per square mile based on the 1990 U.S. Census (as defined in N.C. Senate Bill 1343)



www.e-NC.org

BuildingDemand

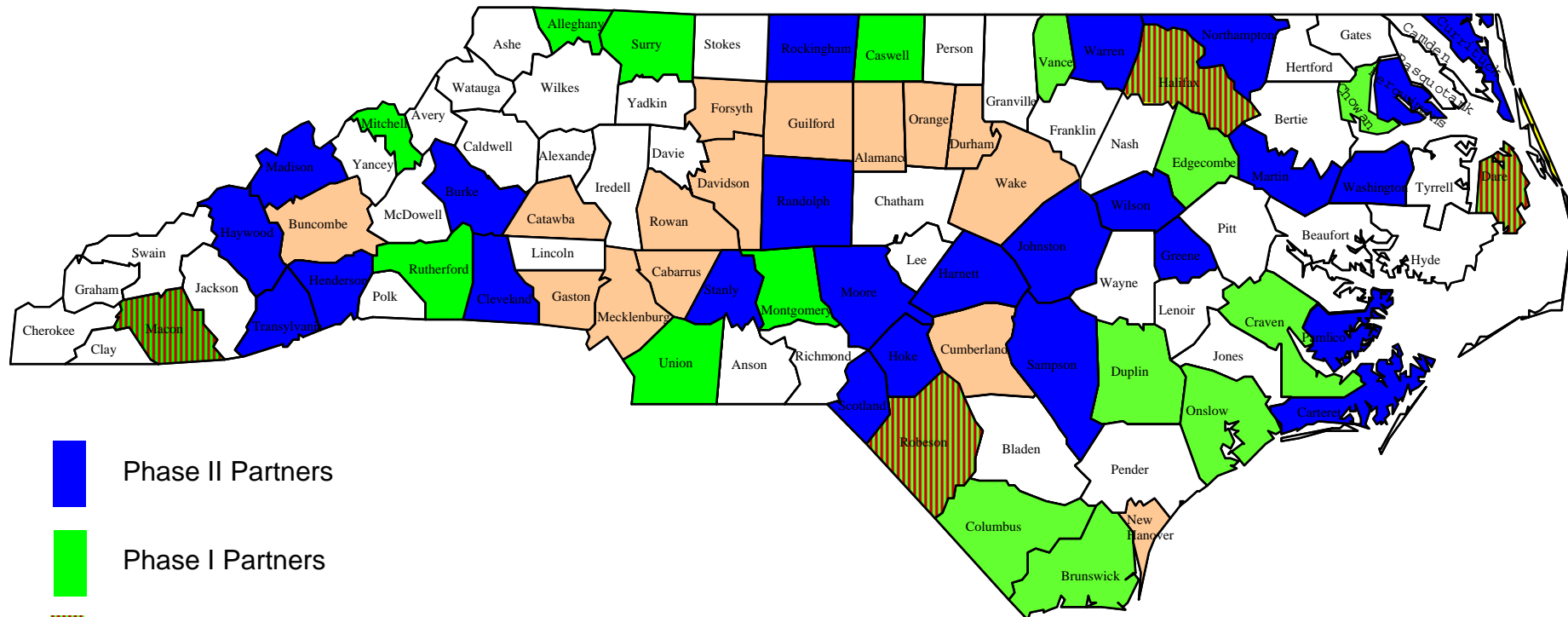
Public Access Centers



Digital Literacy Training



Leg-UpPhase I& IILocations 2004



Phase II Partners



Phase I Partners



Governments selected in phase I and II



Urban Counties



www.e-NC.org

Highlightsof e-NC Work: Grant Programs 2001-2007

- **PUBLIC ENGAGEMENT GRANTS (2001-2002)**
Eligible Applicants: Tier 1 & 2 counties only; 39 applicants representing 34 counties, 31 awards made, representing 32 counties
Total amount contracted: \$154,860 (up to \$5,000 per award)
Grant Period: December 1, 2001 – May 31, 2002; Funding Source: MCNC funds
- **e-COMMUNITIES PLANNING GRANTS (2001-2002)**
Eligible Applicants: 85 rural counties & Eastern Band of the Cherokee Indians (EBCI); 82 awards made
Total amount contracted: \$820,000 (\$10,000 per award)
Grant Period: December 1, 2001 – May 31, 2002, with some extensions through July 31, 2002; Funding Source: MCNC funds
- **ADDITIONAL e-COMMUNITIES PLANNING GRANTS (2003-2004)**
Eligible Applicants: 4 rural counties not previously participating in e-communities program; 4 awards made
Total amount contracted: \$20,000 (\$5,000 per award)
Grant Period: Spring 2003 through Spring 2004; Funding Source: MCNC funds
- **PUBLIC ACCESS SITE GRANTS (2002-2003)**
Eligible Applicants: Counties who successfully completed the e-communities planning grants, including the EBCI
64 applicants representing 62 counties, 64 awards made, representing 64 counties
Total amount contracted in original round: **\$756,000** (\$12,000 per award)
Grant Period: September 1, 2002 – August 31, 2003
Additional Grant Extensions: **\$265,000** (additional \$5,000 per grantee)
Grant Period: Extended through June 30, 2004
Total amount contracted - \$1,021,000; Funding Source: MCNC funds
- **DIGITAL INTERNET LITERACY TRAINING GRANTS 2002-2003)**
Eligible Applicants: 85 rural counties; 65 applicants representing 74 counties, 28 awards made
Total amount contracted: \$721,908 (up to \$20,000 per award, except for multiple county awards)
Grant Period: August 1, 2002 – June 30, 2003, with extensions offered through December 31, 2003
Funding Source: MCNC funds



Highlightsof e-NC Work: Grant Programs 2001-2007 (cont.)

- **BUSINESS & TECHNOLOGY TELECENTER GRANTS, Phase I (2001-2004)**

Eligible Applicants: Tier 1 & 2 counties only; 16 applicants, 5 awards made in Year 1, 4 grantees eligible for Year 2 applications

Total amount contracted for Year 1: **\$2,536,509** (up to \$650,000 per award)

Grant Period: October 1, 2001 – December 31, 2002, extended to June 30, 2004

Total amount contracted for Year 2: **\$1,479,883, Total amount contracted - \$4,016,392**; Funding Source: MCNC funds

- **CONNECTIVITY INCENTIVES GRANTS (2002-2007)**

Eligible Applicants: organizations serving any of the 85 rural counties

3 major rounds of funding (8/22/02, 12/16/02, 3/13/03); Additional awards 2003-2006

Grant period: grants periods ranged from 2002-2006*; **Note: 2 grants in this program to be continued into 2008*

Total contracted as of Dec. 2006 - \$9,474,347.53; Funding Source: MCNC funds, plus includes \$200,000 awarded from ARC monies

- **LEG-UP GRANTS (2002-2005)**

The Local E-Government Utilization Program grant was awarded to the RIAA/e-NC by the U.S. Department of Commerce (TOP)

Total amount contracted: \$789,826.75

Original project amount: \$1,509,032 (to include \$700,000 from TOP, \$605,000 in RIAA/e-NC matching funds, plus \$204,032 in RIAA/e-NC in-kind monies.)

Grant Period: Fall 2002 – Fall 2005; Funding Source: TOP funds and e-NC MCNC funds

- **e-COMMUNITIES IMPLEMENTATION GRANTS (2002-2004)**

Eligible Applicants: original 81 designated e-community counties and the Eastern Band of the Cherokee, 14 awards

Original amount contracted: **\$1,508,462.75** (Awarded November 21, 2002)

Additional awards:

Amount contracted: **\$25,000** (Awarded September 25, 2003), Amount contracted: **\$30,000** (Awarded June 16, 2004)

Total amount contracted - \$1,563,462.75; Funding Source: MCNC funds

- **e-COMMUNITIES SUPPORT GRANTS (2003-2004)**

Eligible Applicants: the 86 e-communities across North Carolina; 56 awards made

Total amount contracted: \$152,000 (approximately \$3,000 per award)

Grant Period: approx. November 15, 2003 – May 15, 2004, and June 1, 2004-December 31, 2004

Funding Source: MCNC funds



Highlightsof e-NC Work: Grant Programs 2001-2007 (cont.)

- **BUSINESS & TECHNOLOGY TELECENTER GRANTS, Phase II (2004-2007)**

Eligible to applicants across the state, 4 organizations selected for Phase II BTTs.

Grant Period: early 2005-end of 2007

Total amount contracted - \$1,780,000 (plus part of technopreneur grants listed below)

Funding Source: state funds (EIF and R&D, 2004 appropriation)

- **e-COMMUNITIES ACTION GRANTS (2005-2006)**

Eligible Applicants: the 86 e-communities across North Carolina

5 applicants representing 5 counties, 5 awards made

Total amount contracted: \$22,693 (approximately \$5,000 per award)

Grant Period: December 1, 2005 – May 31, 2006

Funding Source: MCNC funds

- **TECHNOPRENEUR GRANTS (2006-2007)**

Targeted to BTTs (Alleghany, Martin, Rockingham, Rutherford)

Grant Period: Spring/Summer 2006-end of 2007

Total amount contracted - \$181,500

Funding Source: state funds (EIF and R&D, 2004 appropriation) & Kellogg funds

- **URBAN DISTRESSED PILOTS (2006-2007)**

Targeted to Cities of Charlotte and Wilmington, to act as e-communities pilots for urban-distressed areas

Grant Period: Spring/Summer 2006-Spring/Summer 2007

Total amount contracted - \$10,000

Funding Source: MCNC funds

- **APEC e-LEARNING GRANTS (2006-2011)**

Targeted to school districts in eastern NC

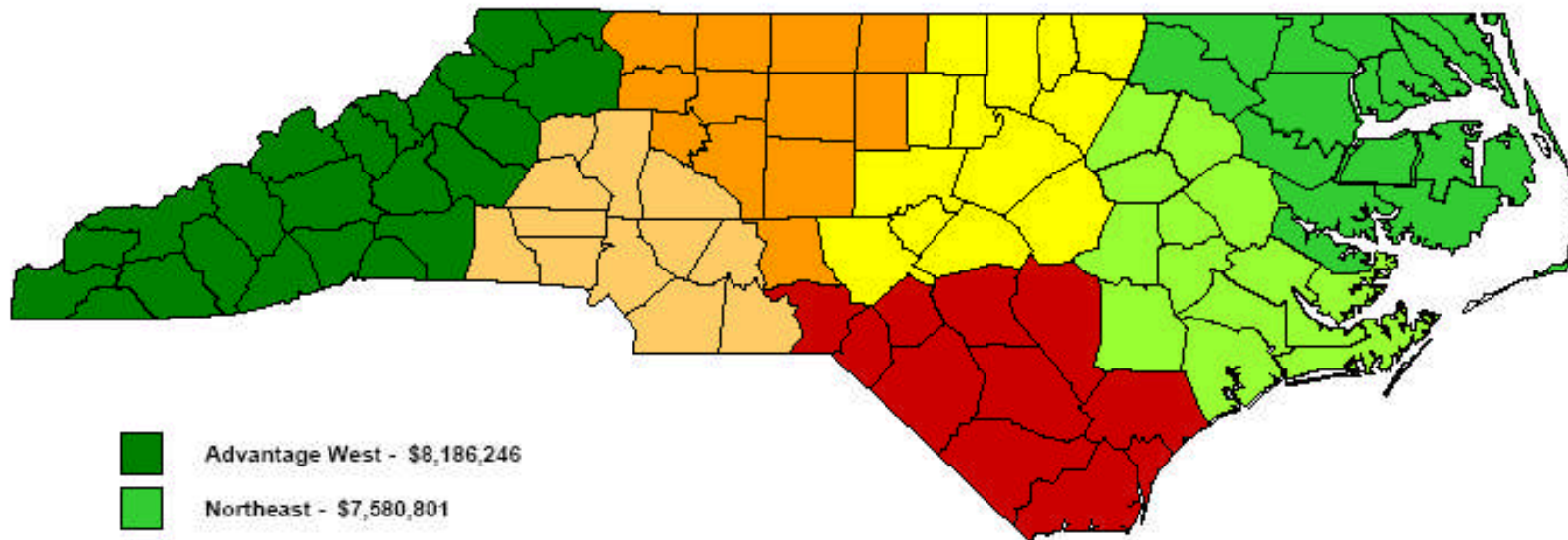
Grant Period: contracts beginning in 2006, all end by June 30, 2011

Total amount available for contracting - \$2 million

Funding Source: Golden LEAF



e-NC/RIAA Grant Money Awarded by Economic Development Partnership Regions



	Advantage West - \$8,186,246
	Northeast - \$7,580,801
	Eastern - \$4,326,813
	Research Triangle - \$1,684,214
	Charlotte - \$1,398,528
	Piedmont Triad - \$1,153,781
	Southeast - \$767,475



Multi-Regional and Statewide grants not represented - \$330,133
Total grant awards to date: \$25,427,991



3/08/08

Invested Directly in Local Communities

- Nearly two-thirds of the \$30 million (MCNC funding) invested in rural North Carolina counties through grants and incentives
- \$3 million committed to education, outreach and awareness projects
- \$2 million invested in research



Funding Sources

MCNC **\$30,000,000**

State of North Carolina

NCGA **\$7,742,500**

*Connectivity Incentives
Grants* *\$1,210,000*
*Bus & Tech Telecenter
Grants* *\$3,192,500*
PEG Channel Grants *\$1,000,000*
WOW e-CDC Grant *\$290,000*
Operations *\$1,800,000*
through DPI/BETA *\$250,000*

**Golden
LEAF** **\$2,150,000**

e-Learning Grants *\$2,000,000*
Entrepreneurship Grants *\$150,000*

Federal **\$925,000**

Foundation **\$164,700**

\$40,982,200



www.e-NC.org

The e-NC Authority

CurrentKey Programs, 2007 - 2008

Highlightsof e-NC Work: Grant Programs 2007-2008

2007-2008 Grant Programs – some awards still being contracted:

- Business & Technology Telecenter Grants \$1,200,000
- Connectivity Incentives Grants \$1,210,000
- PEG Channel Grants (via G.S. 66-359) \$1,000,000

- Windows on the World e-CDC Funding \$ 290,000*

** Note - this funding was directed via legislative mandate, to be transferred to Windows on the World e-CDC in Roper, N.C. The e-NC Authority is only responsible for monitoring the grant.*

Plus - continuation of e-Learning Grants:

- \$2 million from Golden LEAF (2006-2011)



2007-2008 Grant Funding Awards

Connectivity Incentives – promotes public-private partnerships

\$1.21 million awarded December 2007

Grant to Embarq Corp. to raise the level of available high-speed Internet access in the four counties in which less than 50% of the households have access to high-speed Internet:

As a result of this funding, high-speed Internet availability will rise from:

47.96% to 71%: Gates County

49.1% to 77%: Greene County

45.07% to 71%: Jones County

46.89% to 86%: Warren County

Embarq Share = \$1,534,075
e-NC Grant = \$1,210,000
Total Project = \$2,744,075

\$1.26 to \$1.00 match



www.e-NC.org

2007-2008 Grant Funding Awards

e-NC Business & Technology Telecenter Grants

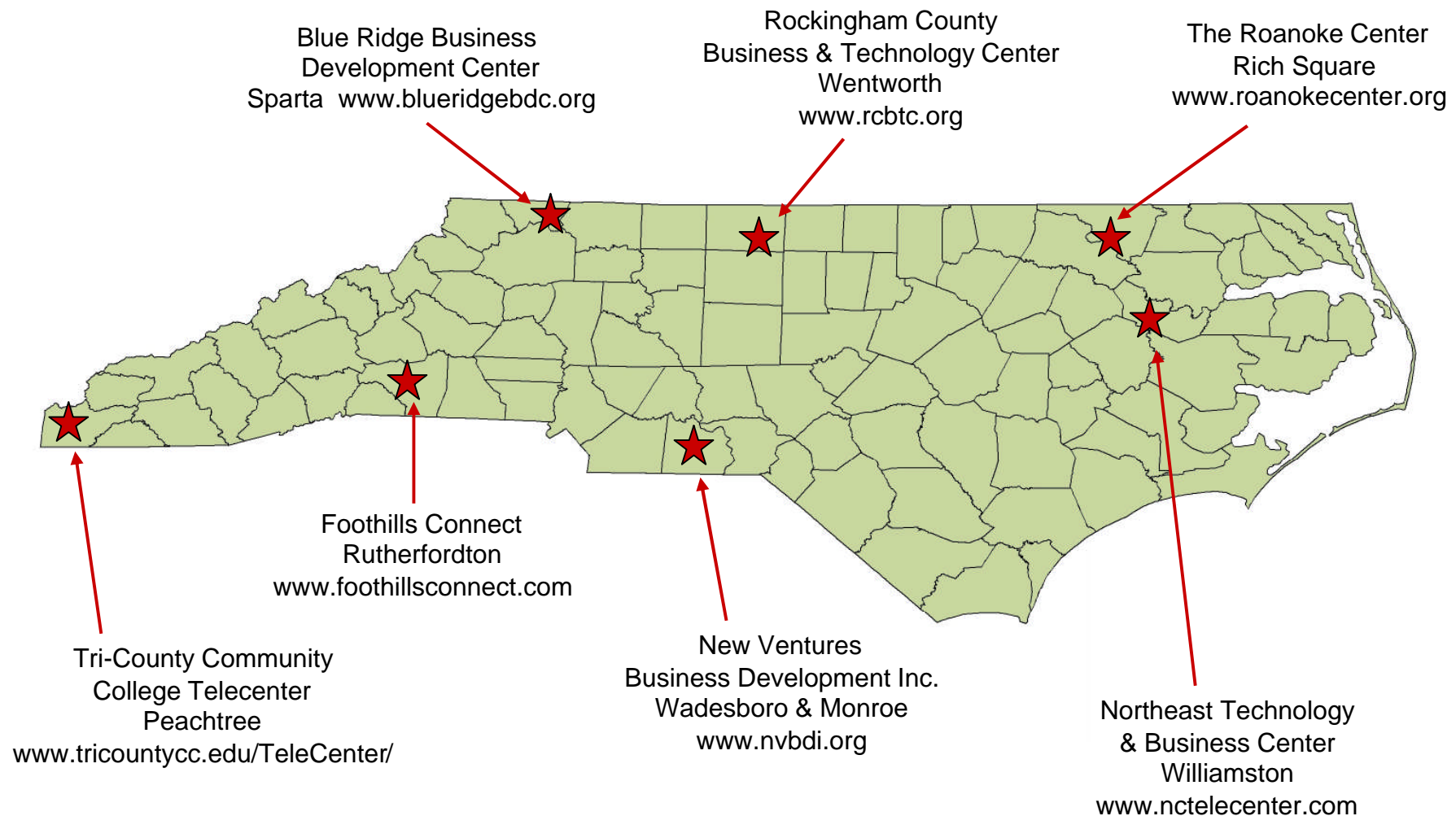
Continued funding for the **e-NC Business & Technology Telecenter** (BTT) Program

Awarded October 2007

\$300,000 for each of the Phase II e-NC Business & Technology Telecenters:

- *New Ventures Business Development, Wadesboro, Anson County*
- *The Roanoke Center, Rich Square, Northampton County*
- *Rockingham County Business & Technology Center, Wentworth, Rockingham Co.*
- *Foothills Connect Business & Technology Center, Rutherfordton, Rutherford Co.*

e-NC Business & TechnologyTelecenters



e-NC Business & Technology Telecenters

- **e-NC Business & Technology Telecenters** –

The e-NC Authority is primary grantor for the SEVEN e-NC Business and Technology Telecenters (BTTs). The BTTs are multi-purpose technology, business, training, and public access centers whose mission is to strengthen and grow the economy in these economically-distressed areas, and act as catalysts to bring opportunities for technology-based economic development to these regions.

- **BTT Metrics (2001-2007):**

- **1,490 new jobs** created (\$4,049 cost per job created)
- 158,477 public Internet access visits
- 22,635 technical/business clients served
- \$11,902,986 leveraged by the e-NC Authority





**Foothills Connect
Rutherfordton, N.C.**



**New Ventures
Business Development
Wadesboro, N.C.**



**New Ventures
Business Development
Wadesboro, N.C.**



**Blue Ridge Business
Development Center
Sparta, N.C.**

**Northeast Technology &
Business Center
Williamston, N.C.**



2007-2008 Grant Funding Awards

e-NC Capital Expenditure Grants for Qualified PEG Channels

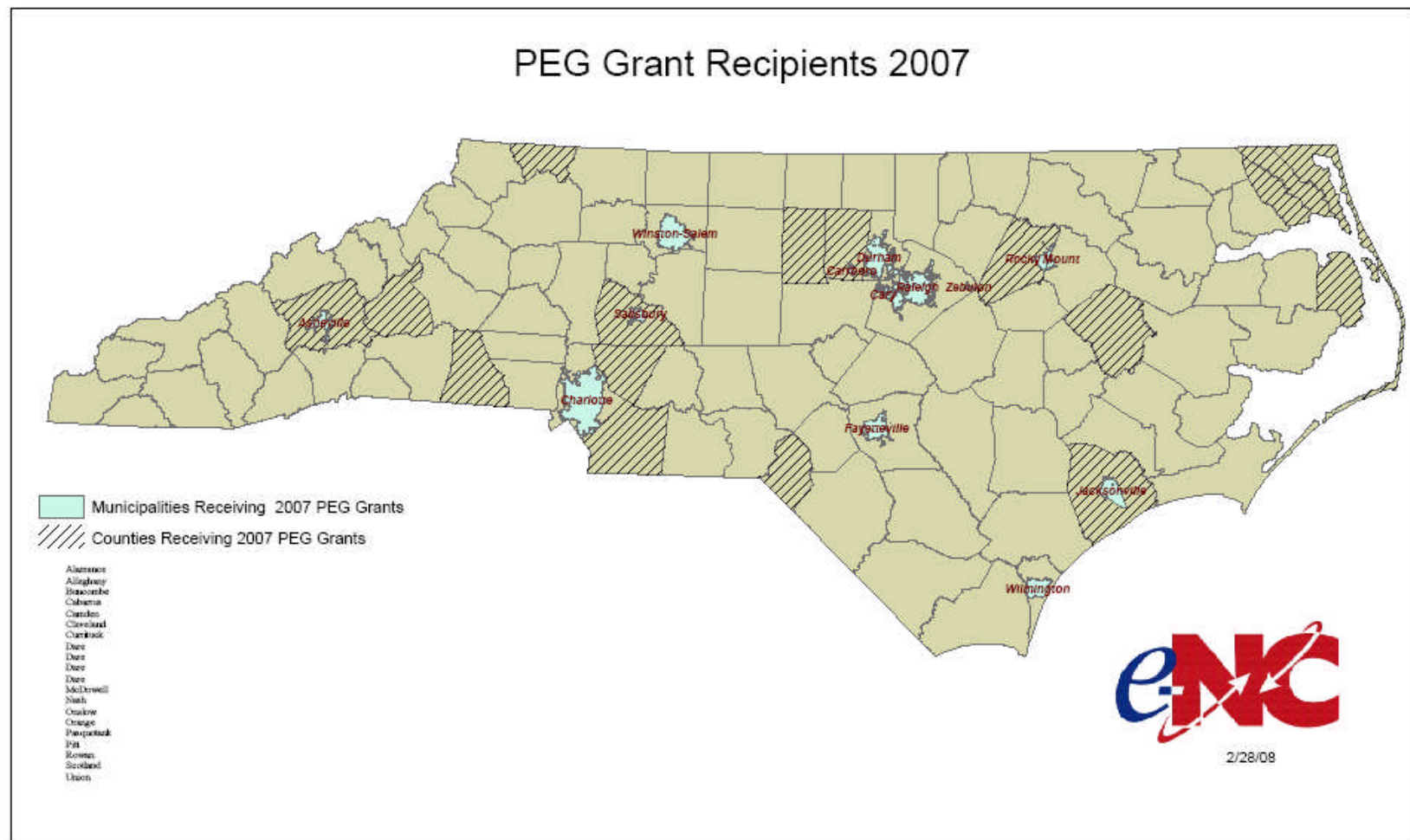
30 Grants to local governments for **PEG Channel Funding**

Over \$572,000 Awarded December 2007

- Program is funded by a \$1 million appropriation from state lawmakers.
- PEG channels are public, educational or governmental access channels provided to a county or city.
- Local governments receiving funds are required to match the e-NC Authority's award dollar-for-dollar.
- Program created by the N.C. General Assembly to help replace cable franchise fee revenues that were lost as a result of recent changes in the state video franchise system.
- Local governments with PEG channels certified by the N.C. Department of Revenue were eligible to apply. Each applicant may request up to \$25,000 in funding per fiscal year.
- Second round of funding to be announced April 10, 2008

Distribution of e-NC PEG Channel Grants

Awarded December 2007,
Second Round Funding to be Announced April 10, 2008

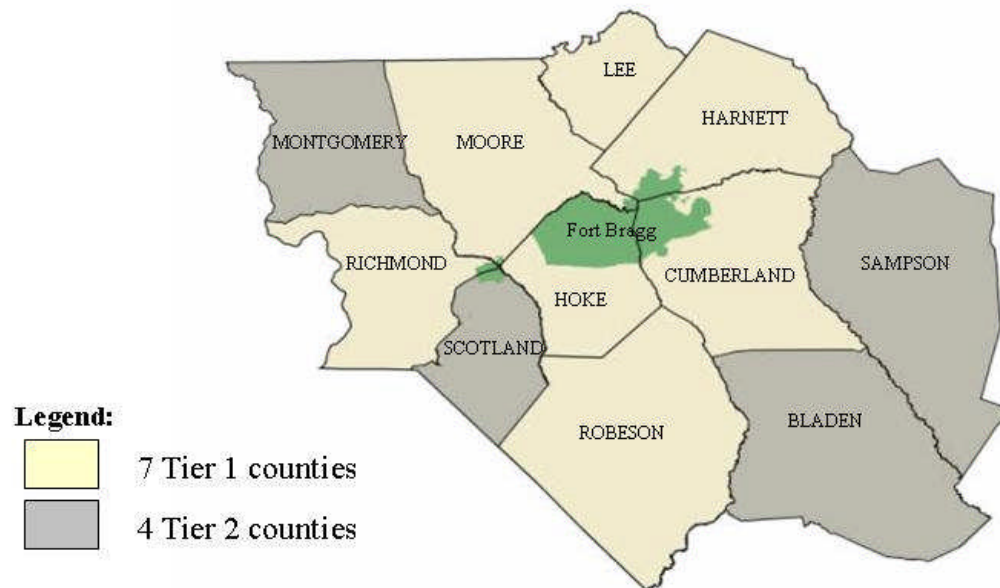


Other Programs & Activities 2007 -2008

- **Partner in School Connectivity Initiative** – The e-NC Authority provides technical assistance to statewide effort to provide increased connectivity to schools. Project in partnership with Friday Institute/NCSU and DPI (currently 168 schools, 60,598 students).
- **e-Learning Grants** – The e-NC Authority is providing connectivity funding to school districts in eastern N.C. for increased e-learning capabilities. Five year project in partnership with Golden LEAF (109 schools, 36,414 students).
- **BRAC Project** – The e-NC Authority is providing technical assistance in a regional growth plan for the Base Realignment and Closure Regional Task Force (BRAC RTF), looking at expansion of the Ft. Bragg/Pope Air Force Base military complex and surrounding counties. The e-NC Authority is partnering with TDA, Inc., to look at communication technology needs and infrastructure in the targeted counties.
- **NC TeleHealth Network (NCTN) / FCC Rural Health Pilot Program** – The e-NC Authority is a planning partner in this new program recently awarded by the FCC to pilot the N.C. TeleHealth Network (NCTN). FCC gave \$12 million to assist.
- **Ubiquitous Training** – The e-NC Authority continually focuses on and deploys information and training statewide: Southeast ICT Symposium, digital literacy training, tool kits, manuals.

BRAC Project

BRAC RTF Eleven Member Counties



e-NC: Other Programs & Activities07 -08

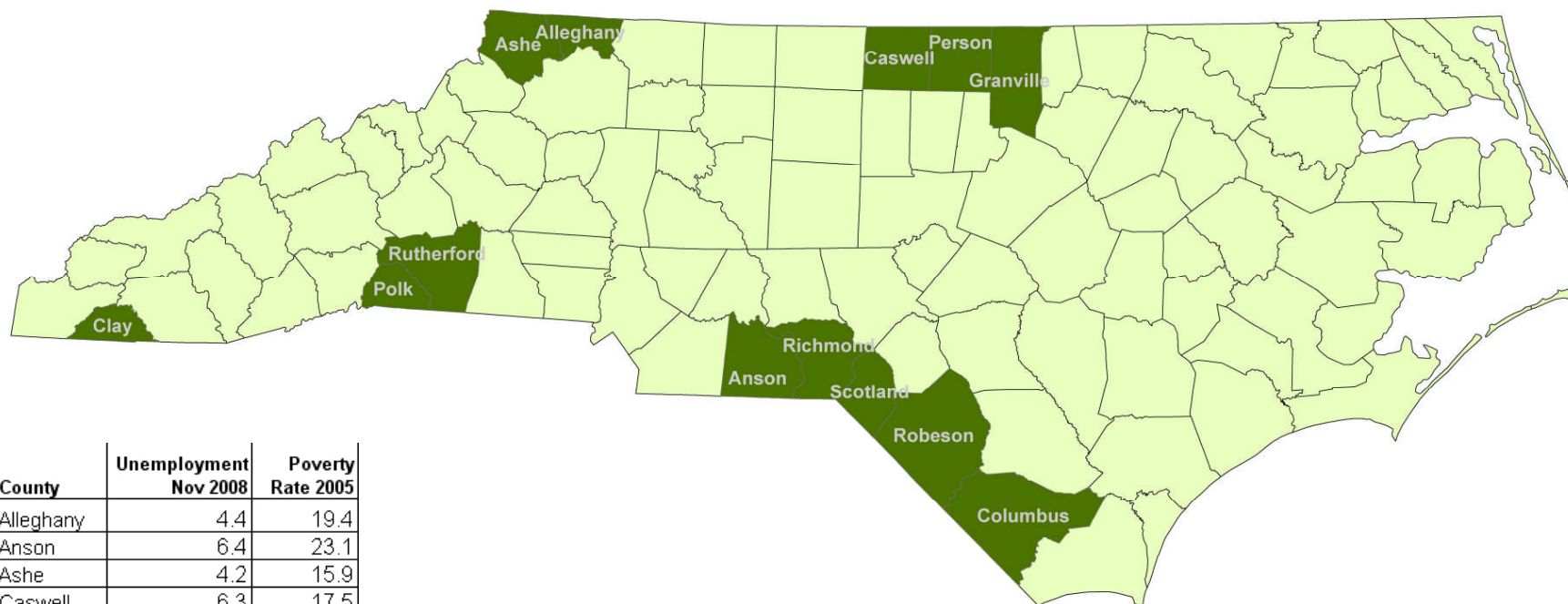
Cross-Borders Work

Efforts to assist most needy counties:

- Far West – Clay / S.C.
- West - Polk, Rutherford / S.C.
- Northwest – Ashe, Alleghany / Va.
- N. Central – Caswell, Person, Granville / Va.
- S. Central – Anson, Richmond, Scotland, Robeson, Columbus / S.C.



Cross-Border Projects



County	Unemployment Nov 2008	Poverty Rate 2005
Alleghany	4.4	19.4
Anson	6.4	23.1
Ashe	4.2	15.9
Caswell	6.3	17.5
Clay	3.7	13.3
Columbus	5.7	27.0
Granville	5.2	12.8
Person	5.6	13.6
Polk	3.4	11.3
Richmond	7.9	23.8
Robeson	6.3	32.0
Rutherford	5.8	16.3
Scotland	9.6	26.3

Source: NC Department of Commerce
County Profile Reports, 4th Quarter 2007

The e-NC Authority

Legislation, Policy Issues and Closing

State Legislation Directly Impacting e-NC

- **Session Law 2000-149** **Creation of the Rural Internet Access Auth.**
- **Session Law 2003-425** **Creation of the e-NC Authority**
- **Session Law 2004-88** **Emergency Funding**
\$1 million to the e-NC Authority under Economic Infrastructure Fund – for BTTs
- **Session Law 2004-124** **2004 Appropriations**
\$992,500 to the e-NC Authority under Rural Center R&D funding – for BTTs
Urban distressed requirements explained in R&D funding section
- **Session Law 2005-276** **2005 Appropriations**
\$500,000/yr. to the e-NC Authority under Rural Center funding – for operations
Changes all commissioners to voting members
Funded Study on Regional Education Networks for BETA, under DPI funding



State Legislation Directly Impacting e-NC (cont.)

- **Session Law 2006-66 Modification of the Appropriations Act of 2005**

Extends the e-NC Authority's sunset date to Dec. 31, 2011

Provides \$500,000 to e-NC for fiscal year 2006-2007 (through the Dept. of Commerce)

School Connectivity Initiative awarded \$6 million non-recurring. This funding has paid for e-NC technical assistance of \$50,000 for YR 06-07, and is paying for \$100,000 for YR 07-08.

- **Session Law 2006-151 Video Service Competition Act**

Mandates that the e-NC Authority administer the PEG Channel Fund and the grants awarded under this fund

- **Session Law 2007-323 Base Budget Appropriations**

Appropriates \$4 million to the e-NC Authority for connectivity, operations, and BTTs, including \$1 million to fund the PEG Channel fund, to be distributed per G.S. 66-359. A portion in the amount of \$290,000 was to be transferred to Windows on the World e-CDC. \$500,000 from S.L. 2006-66 continued in recurring budget through the Dept. of Commerce.

Changes the terms of the e-NC commission appointments so that all terms commence on Jan. 1, 2008 and are staggered.



Current Advocacy Work

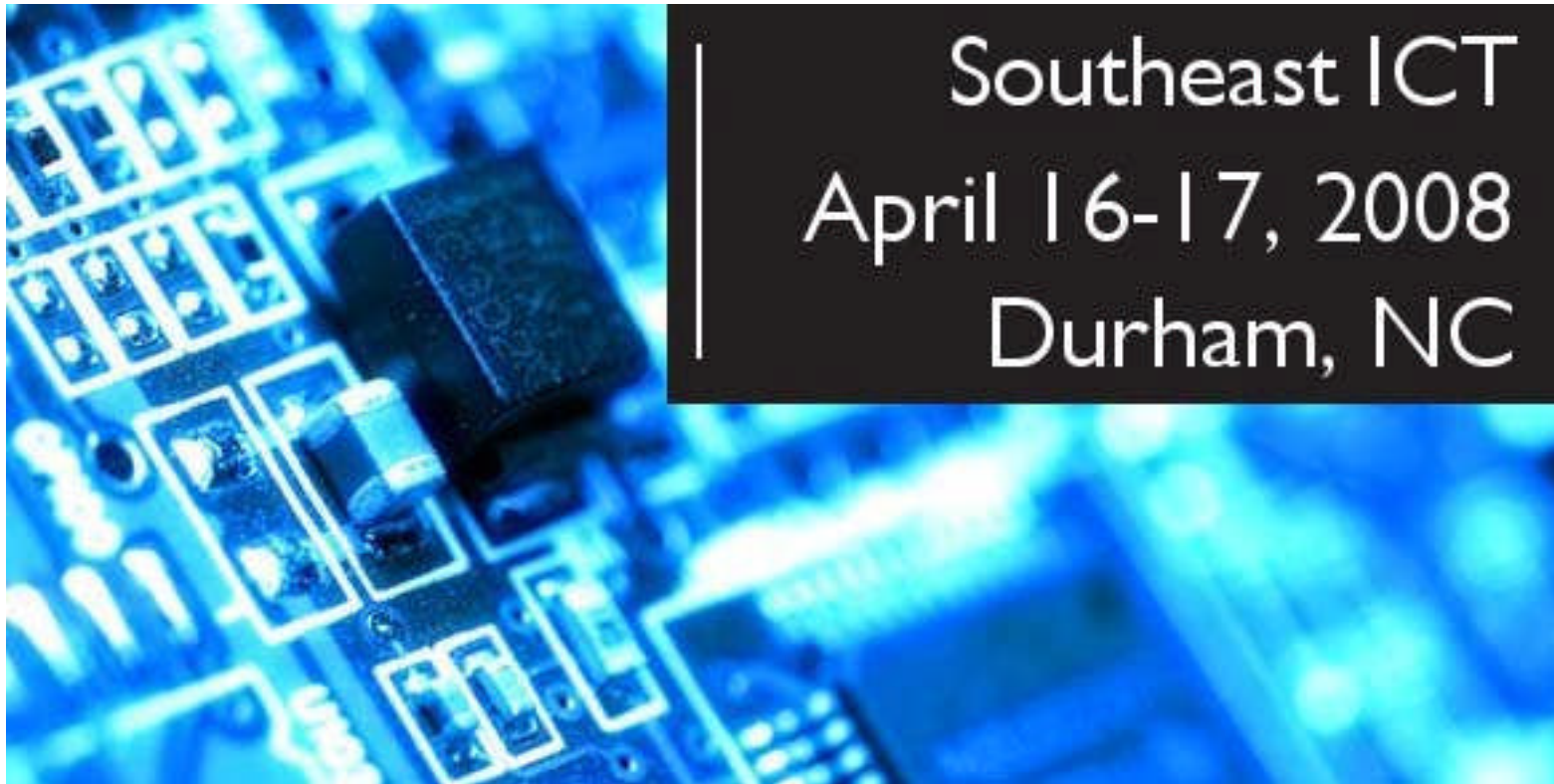
- At the state level:
 - Advocating for targeted infrastructure incentive funds for counties with less than 75% access – to be matched at a minimum of 1:1 with industry dollars - to expand broadband in the most underserved counties
 - Advocating for funds for continued investment in e-NC Business & Technology Telecenters
 - Working toward the e-NC Authority's 2008 legislative and advocacy agenda – must have sign off on April 9 by board



Release of White Paper – April 16

- White paper to be released April 16 at Southeast ICT Symposium, on the state of broadband deployment in the U.S. and N.C.
- Paper to look at why build-out of broadband is essential to economic development, where we stand as a state and nation in terms of broadband deployment, initiatives to accelerate deployment and various barriers that exist.

Register Now – Complimentary Registration for Legislators



Strategic Partners – Partial Listing

- Citizens of North Carolina
- Local governments and economic developers in all 100 counties
- Microelectronics Center of North Carolina (MCNC)
- N.C. Association of County Commissioners & League of Municipalities
- North Carolina Chamber (NCCBI)
- N.C. Dept of Commerce / U.S. Dept of Commerce
- N.C. General Assembly
- N.C. Healthcare Information & Communications Alliance (NCHICA)
- N.C. Rural Economic Development Center
- N.C. Technology Association (NCTA)
- Regional Councils of Government
- Regional Economic Development Partnerships
- Telecom Service Providers
- UNC Center for Public Technology
- UNC System, NC Community College System, NC Dept of Public Instruction



Critical Success Factors

- Leadership – Legislative & Executive Gov't.
- Targeted funds toward last-mile incentives
- Public-private partnerships
- Grassroots involvement – e-Communities
- The e-NC Authority Board



Additional Information

Information provided to committee staff for members:

- e-NC grants database (listing of all RIAA/e-NC awards made 2001-present)
- Listing of all e-NC legislation

Note: all RIAA/e-NC funds are audited within the audit of the N.C. Rural Economic Development Center. No audit exceptions.

In Closing...

The existence, or lack of, broadband infrastructure in North Carolina will determine the future growth for this state. The existence of, or lack of, this infrastructure impacts all sectors, including:

- economic development
- education
- health care
- homeland security
- government
- culture
- entertainment

“Broadband access does enhance economic growth and performance, and...the assumed and oft-touted economic impacts of broadband are real and measurable.”

*Measuring Broadband's Economic Impact
Broadband Properties, December 2005*

*William H. Lehr & Carlos A. Osorio
Sharon E. Gillett, Massachusetts Institute of Technology
Marvin A. Sirbu, Carnegie Mellon University*



www.e-NC.org

ToReach Us

**The e-NC Authority
4021 Carya Drive,
Raleigh NC 27610
919-250-4314
1-866-627-8725
www.e-nc.org**