High Technology Development Corporation
Hawaii
January 12, 2012

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2001-2011

- Erskine Bowles chairs Rural Prosperity Task Force
- 2000 Legislature passed RIAA Legislation

  Created 21 member board with broad powers
- Operate outside government but a government
  Authority
- No state funds but $30 million from MCNC Fdtn
- Committees established-met monthly before

  Board Meeting
- Created Outreach plan

RIAA Committees

- Outreach, Legal, Technical, Applications, Business/Telecenters, Incentives
- Committees chaired by board, staffed by
-     RIAA staff, citizen members allowed
- Charter for committees established
- Used audio and video teleconferencing for meetings
- Set of Principles for Broadband Developed

North Carolina

- 9.6 million citizens
- Topography challenging: Mountains and islands and mainland
- 10th largest state
- 34% Minority
- Median Income $43K, Per Capita $25K
- 36% 2000 access to Internet
- 80% 2011 access to Internet
- Be wary of information on access

Outreach Program Drives Adoption

- Major Communications Program
- Digital Literacy Program
- Ecommunities Program: echampions
- Public Access Centers 139 + Libraries
- Leadership Training for Leaders with Harvard
- Training on fund raising for ecommunities
- Broadband Summits-Regional and State

Applications Development Technology Neutral

- Applications Drive networks out towards communities

- Portal on elearning with elearning Summit

- School Connectivity Initiative (federal+state)

- NC Telehealth Network (federal + state)

- Local Government (federal + state)

- Tech based economic development-state

Money $$$$

- Public Private Partnerships==match state money $I to $I.25 state $5 million

- Federal Grant Funding—Gather info and work to gather the dollars $ $382K

- State Funding (No more than $6 million)

- Foundation Funding $30 million

- Private Sector (from their own monies ??)

- Universities Research Network $35 million

- Local governments monies for transactional gov.

State of Deployment

- Private Sector

  (DSL-wireline)

   Cable cable-fiber coax-beginning Docis

   Wireless   many small (Main) private &
      nonprofit,

- Public Sector Winston-Salem, Wilson and Salisbury

- Telephone Coops (almost 100% fiber)

80%   from citizen surveys & Mapping (different)

Mapping

- First state to map its infrastructure 2001
- With ARRA bill National Map Available
- SBDD funded states to develop authority and to map the states 2009
- Initial Strong Support from Private Sector
- When ARRA/SBDD arrived had to have NDAs
- Mapped households and ARRA/SBDD mapped census blocks

Other States to Review

- Massachusetts Broadband Institute
- California Broadband Initative
- Illinois Partnership
- State of Washington
- Arizona Broadband
- Minnesota Ultra-High Speed Broadband Task Force
- Arkansas Capitol Corporation

Pay attention to national models and how you can leverage them

- Gig U Initiative off universities led by Blair Levin (around 30 universities)   High Performance Collaboration U of Hawaii a member
- Ignite Project of National Science Foundation**US Ignite: A Public-Private Partnership to Advance Gigabit Application and Service Development and Deployment**
- "US Ignite is an initiative to spark the development of gigabit applications and services in areas of national priority -- advanced manufacturing, health, education, energy, economic development, transportation, and public safety/emergency preparedness -- on an ultra high speed (>100 Mbps symmetric), deeply programmable (allowing new internet architectures and protocols), and sliceable (allowing isolated experiments or services running in parallel) network testbed."
- USUCANN Funded by ARRA for connectivity among community institutions Contact Mark Johnson mj@ncren.org

Economic Development

- Business & Technology Telecenters
- Farm to Table of Chefs
- Methane Recovery from Landfills
- Use of SCORE and Others to Coach

  small businesses

  Surveys of Small Business- Podcasting & webcasting

  Broadband Manuals

  Strategic Review of Small Business for training in revenue gains using the Internet

  estrategy survey of businesses

 Tracking of Gains

North Carolina Story

- Business Technology Centers
- BTTs are excellent examples of NC's interpretation of tech-led economic development.   Technology hubs within rural communities, telecenters increase entrepreneurship, training and business opportunities in rural areas.
- Farmers Using Computers

E-NC Authority ROI

- Years 2003-2007 BTTs (7)
- Total Jobs 1490, Average Salary $35 k
- Income generated $149,030,000
- Leveraged from other sources $ll,902,986
- Total $160,932,986
- Tax Revenues $10,432,100
- NC Gen Approps $1.6 M
- ROI on total state investment 4.021M 37$ to l
- ROI on state monies for admin and programs of the Authority would be 12.1 without multiplier effect
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Strategic Study of Sectors

- Businesses 75,000
- Nonprofits
- Local Government
- Health Industry
- Study in 2010 shows 32% of households on the Internet in NC run a small business from their home.
- Project will work with regional economic development corporations to gain revenues from using the Internet

Final Thoughts on Success on The Journey to UltraHighSpeed for all

- Passion to Create the Process and Champions for the UHS initiative
- A good plan for all to see and involving citizens and all the interest groups
- Financing needed for the UHS
- Goals and Tracking
- Third Party Reviews along the way
- Rework and move forward again
- Take time out to pace yourself & have fun together
- Commitment by the Team – Don't ever give up!
- The end goal for economic competitivess for Hawaii is worth the journey!

Reports to Review

- Microsoft   Innovating for Inclusion: Digital Inclusion Guide for Those Leading the Way
- Capturing the Promise: A 10-year Action Plan Using Broadband Internet to Increase North Carolina's Competitiveness and Sustainability in the Global Economy www.e-nc.org 2009
- **[Bigger Vision, Bolder Action, Brighter Future: Capturing the Promise of Broadband for North Carolina and America (2008)](www.e-nc.org)** www.e-nc.org
- eStrategy Report www.e-nc.org/broadband-101/e-nc research

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