non-traditional provider issues - policy and economic

Mark Johnson
MCNC
Established in 1980 as Microelectronics Center of North Carolina; Became **MCNC** in 1990
- Founded by NC General Assembly as non-profit, state-funded resource for technology-led economic development
- Private, independent technology nonprofit
- Expanded in 1985 to include NC Networking
  - Operates the North Carolina Research and Education Network
  - Provide common platform for statewide research for academic institutions
- Operated NC Supercomputing Center 1988 – 2003
- Independent, not for profit organization
- Technology-focused economic development
MCNC and the Internet

- First domain registered
- Direct State funding ends
- VISTAnet
- First MCNC Fiber purchase
- Distributed gigapop
- K12 added iPhorie
- K12 Filtering Firewall implemented
- BTOP
- DDOS Mitigation Implemented
- NCTN
- Internet hosts

Logarithmic growth for the Internet and NCREN

- NSFnet transition
- MCNC Splits Cronos sale
- iPod released
- MCNC.org
- NCIH
- NCSC
- RIAA
- Federated Identity support
- First InCommon Support Consortium

Private microwave network
Leased services

First domain registered
K12 added
First MCNC
Fiber purchase
RIAA
K12 Filtering
Firewall implemented
BTOP
DDOS Mitigation Implemented
NCTN
Internet hosts
MCNC Fiber footprint

Stumpy Point
Pop. 243

4 gigabit providers

0 gigabit providers

Muni service
Backhaul (wholesale Internet)
E-Rate / HCF
Business-only E-Rate providers
CAF effectiveness
USF contributions
Financing models for MDUs
Measurement/mapping - where and how much?
Barriers to deployment - unevenly distributed across provider types
Subsidies for deployment - unevenly distributed