

*non-traditional provider issues - policy
and economic*

Mark Johnson
MCNC



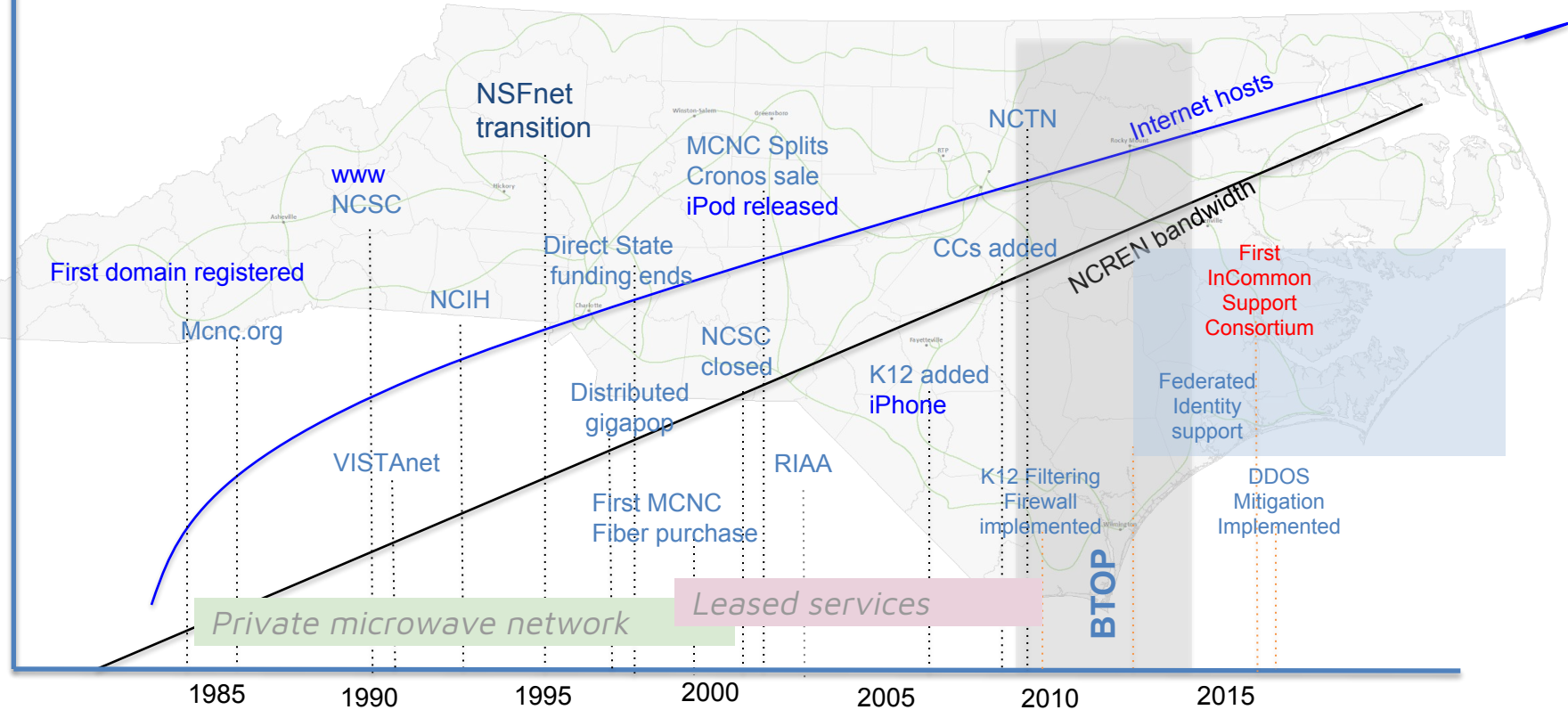
- Established in 1980 as Microelectronics Center of North Carolina; Became **MCNC** in 1990
 - Founded by NC General Assembly as non-profit, state-funded resource for technology-led economic development
 - Private, independent technology nonprofit
- Expanded in 1985 to include NC Networking
 - Operates 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



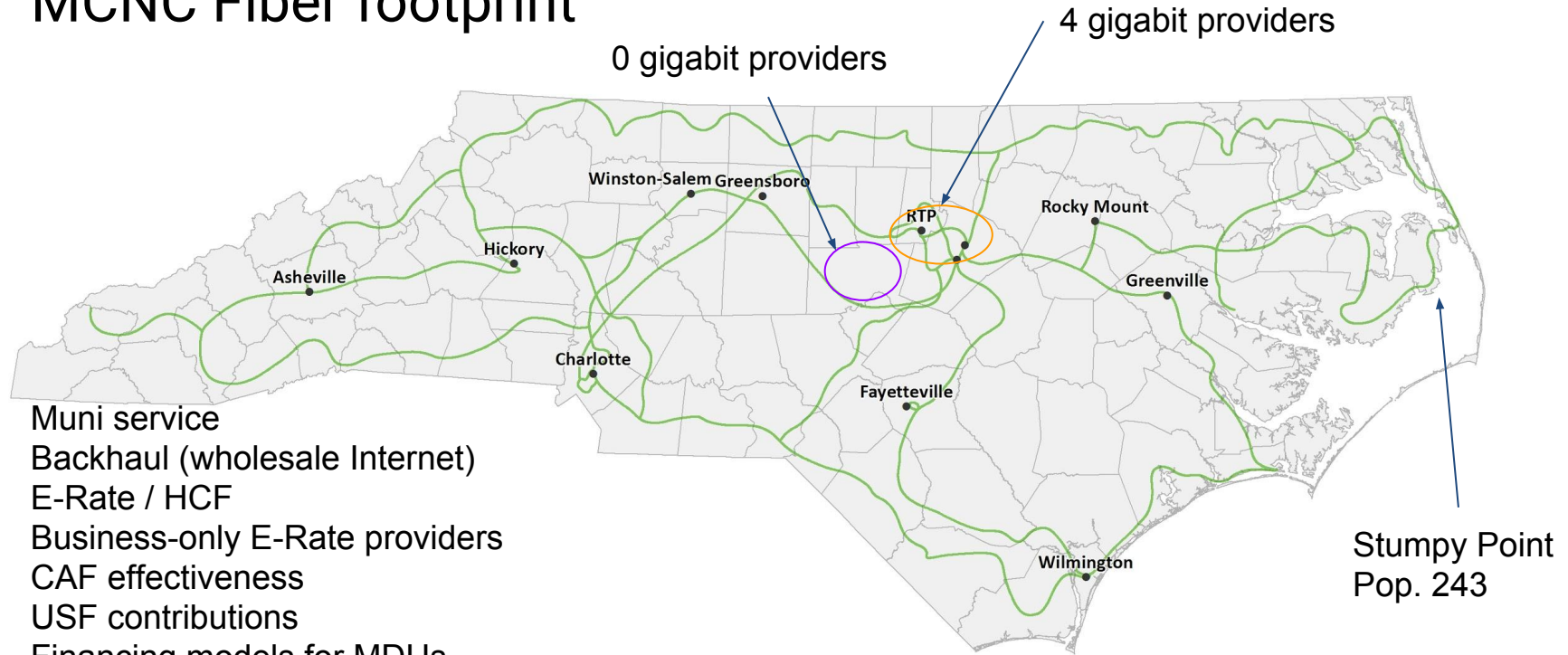
MCNC and the Internet



Logarithmic growth for the Internet and NCREN



MCNC Fiber footprint



- 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

Overlays

Unserved Citizen

- Underserved Cellular
- Unserved
- Underserved

Underserved Census Blocks

- Middle-Mile POP
- Middle-Mile Fiber

County Lines

Fixed 25Mbps Down 3Mbps Up

- Fiber
- Cable
- DSL
- Other - T1 - Bonded Copper - etc
- Fixed Wireless

Canada Cable

Canada DSL and Fiber

Canada Fixed Wireless

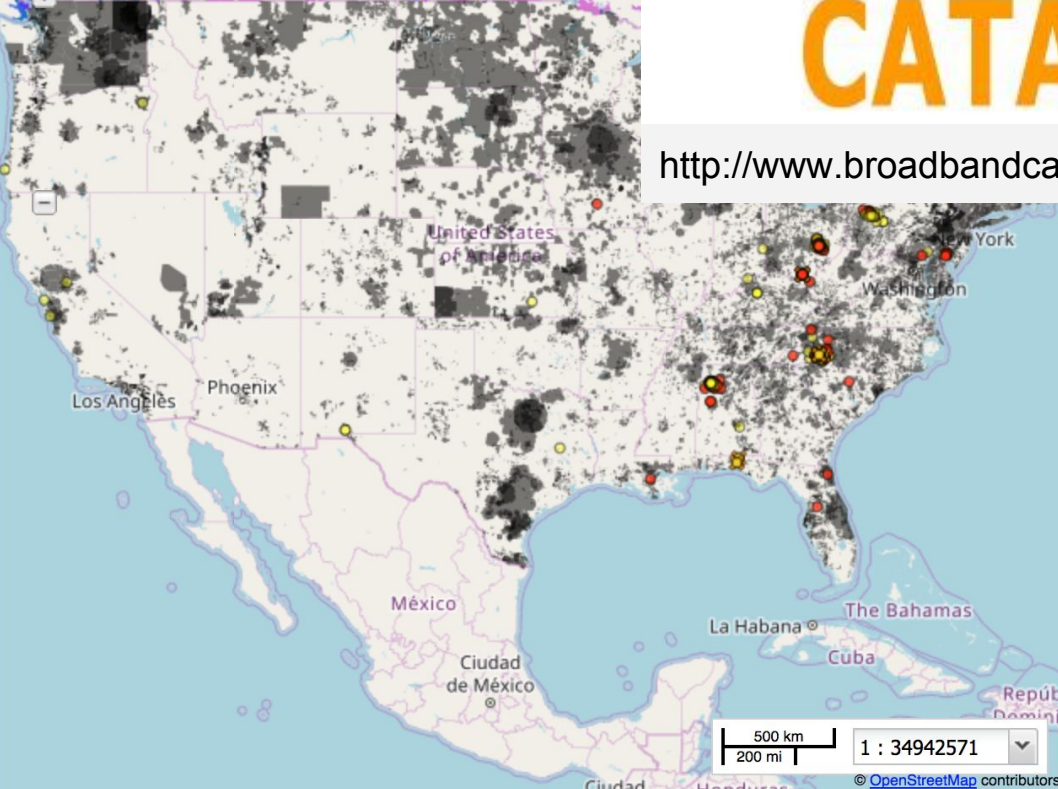
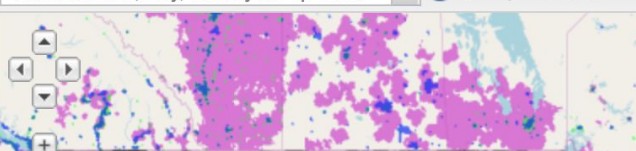
- Canada LTE Mobile Wireless

Base Maps

- OpenStreetMap

Enter Address, City, County or Zip Code

Identify Providers



BROADBAND CATALYSTS

<http://www.broadbandcatalysts.com/>