



Southern Ohio Health Care Network



WC Docket No. 02-60

Project Briefing

On behalf of

Adena Health System – Chillicothe, Ohio
Holzer Health Systems – Gallipolis, Ohio
O'Bleness Health System – Athens, Ohio



Draft



3 Sept 08



Partnerships

Two Awards : One Project

- Adena-O'Bleness = \$14.2 million
- Holzer = \$1.8 million
- Merger requested from FCC so that we can issue a single RFP.
- Combined Match = \$2.4 million (minimum)



Project Objectives

- Create inclusive broadband health care network in dramatically underserved rural area.
- Enhance sustainability of rural medical practices.
- Expand telemedicine based on high-definition video and audio.
- Support development of the regional health information organization.
- Improve broadband access across the service region.
- Extend capacity to economic development, digital divide projects and K-20 initiatives.



Foundation of Approach



- Achieve **Pervasive Access**
- Build-on and Create **Partnerships**
- Deploy **Open Architecture** solutions.



Rural Telecom Realities

- Low carrier investment due to low population density.
- Little redundancy available.
- High costs for services.
- The SOHCN intends to serve as the “anchor tenant” that justifies carrier investment to extend broadband across the region.

Partnerships with Carriers

- Use the FCC funds to spur broadband deployment
- Health care providers as “anchor tenants” justifying the build.
- Carrier commitment to expand broadband in the communities:
 - New types of broadband services.
 - Extending range of broadband coverage.
 - Nearing the goal of **Pervasive** access.
- Lock-in 10 year rates, including upgrade path.

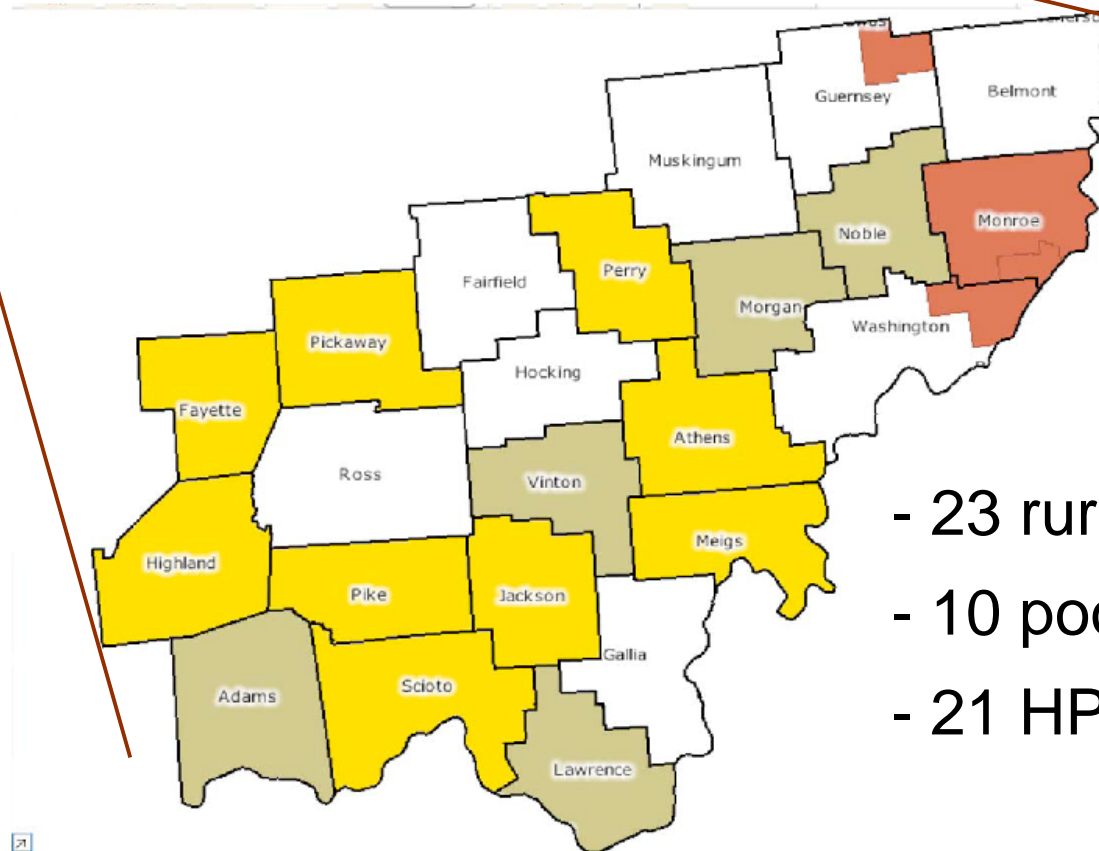
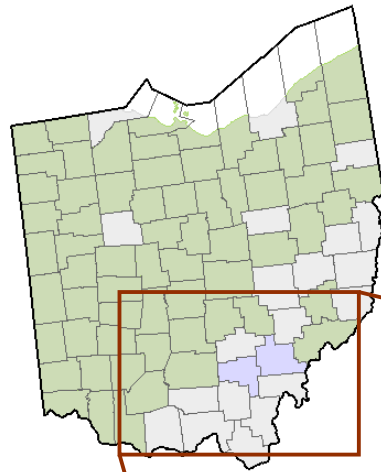


Importance of Community Broadband

- **Pervasive** access to connectivity.
- Physician homes.
- Patient telemetry.
- General health of the rural economy.
- Economies of scale in on-going costs for broadband.



The Service Region



- 23 rural counties.
- 10 poorest in Ohio.
- 21 HPSAs

Project Phases

- Phase I Counties

- Adams
- Athens
- Fayette
- Gallia
- Highland
- Jackson
- Lawrence
- Meigs
- Pickaway
- Pike
- Ross
- Scioto
- Vinton

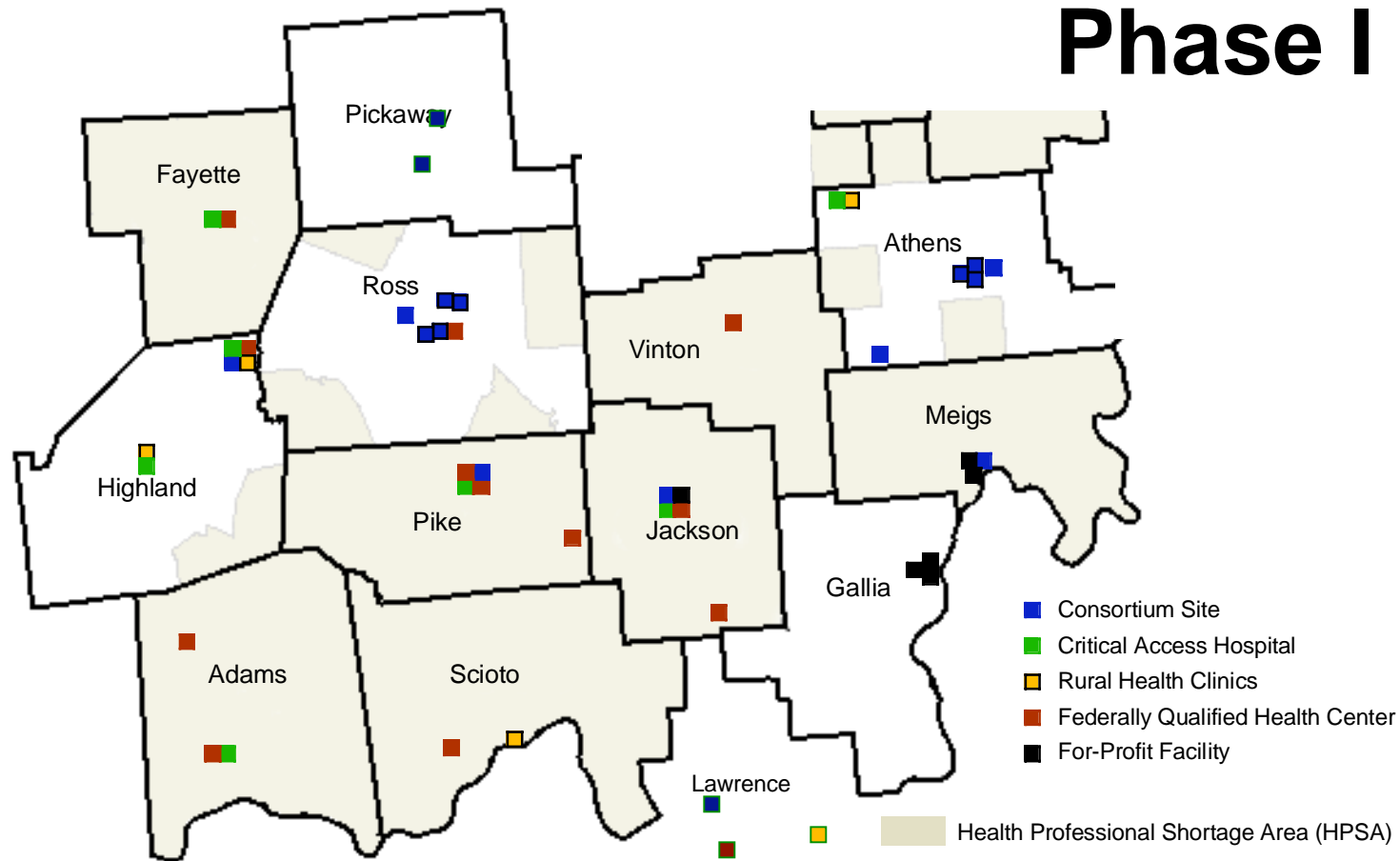
- Phase II Counties

- Belmont
- Fairfield
- Guernsey
- Hocking
- Monroe
- Morgan
- Muskingum
- Noble
- Perry
- Washington

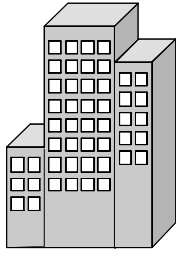
Requires 2nd
round of FCC
funding or
other sources

Note: Counties in blue were added after the FCC award.

Phase I



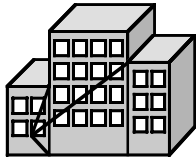
- 13 Counties
- 8 Critical Access Hospitals
- 13 Federally Qualified Health Centers
- 6 Rural Health Clinics



Regional Medical Center

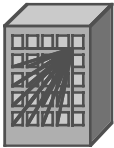
Inpatient, Outpatient, Office Visits,
Imaging, Lab, IT, Administration

Range of Facilities



Local Medical Center

Outpatient, Office Visits, Imaging,
Lab



Local Medical Clinic

Office Visits, Imaging, Lab



Community Medical Clinic

Office Visits, X-Ray



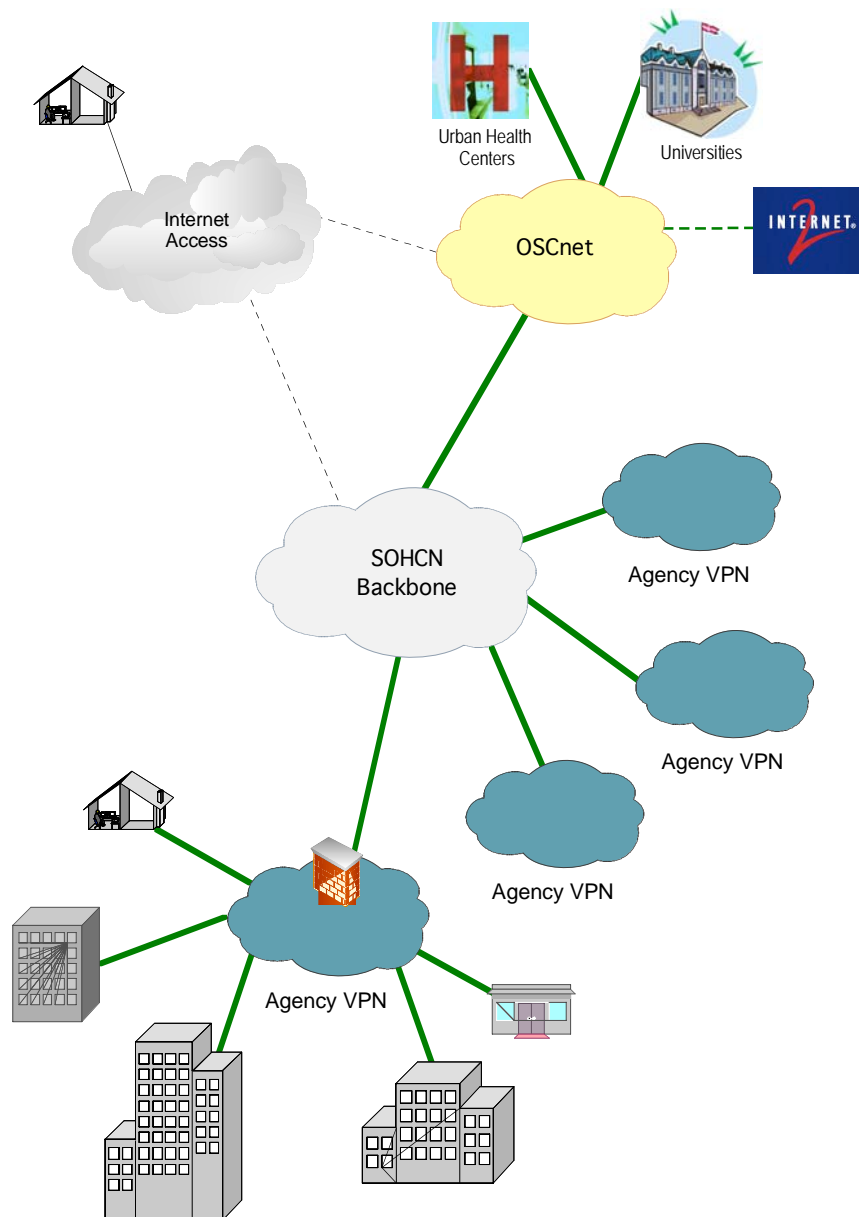
Physician Home

Remote radiology consults, other
specialties in which review of PACS,
etc. needed. Possible telemedicine
from home.

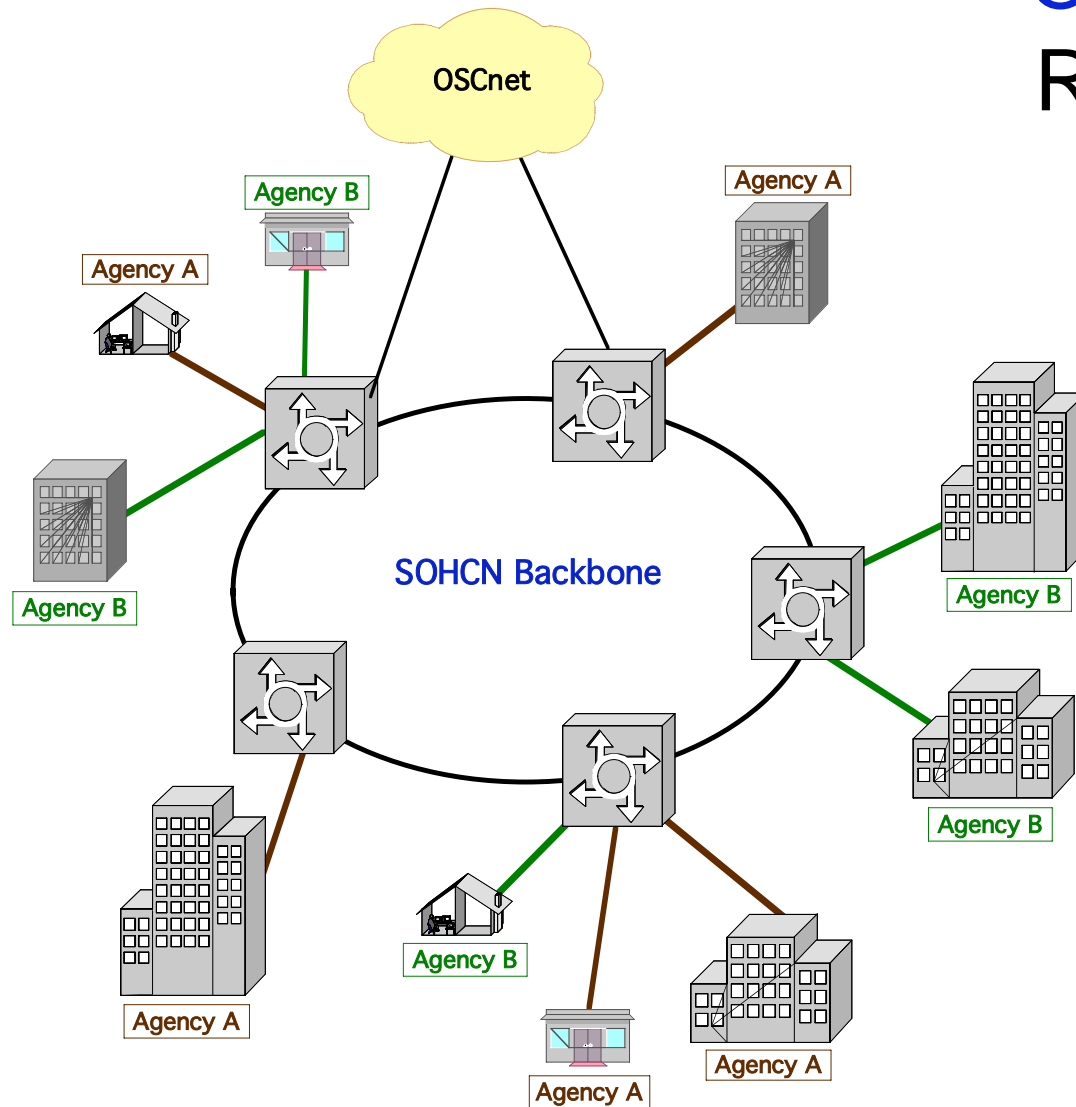
Open Architecture

One Connection

- Supports secure intra-agency traffic.
- “Any-to-any” connectivity:
 - Within the SOHCN
 - To OSCnet
- Performance for HD telemedicine.
- Internet access options.

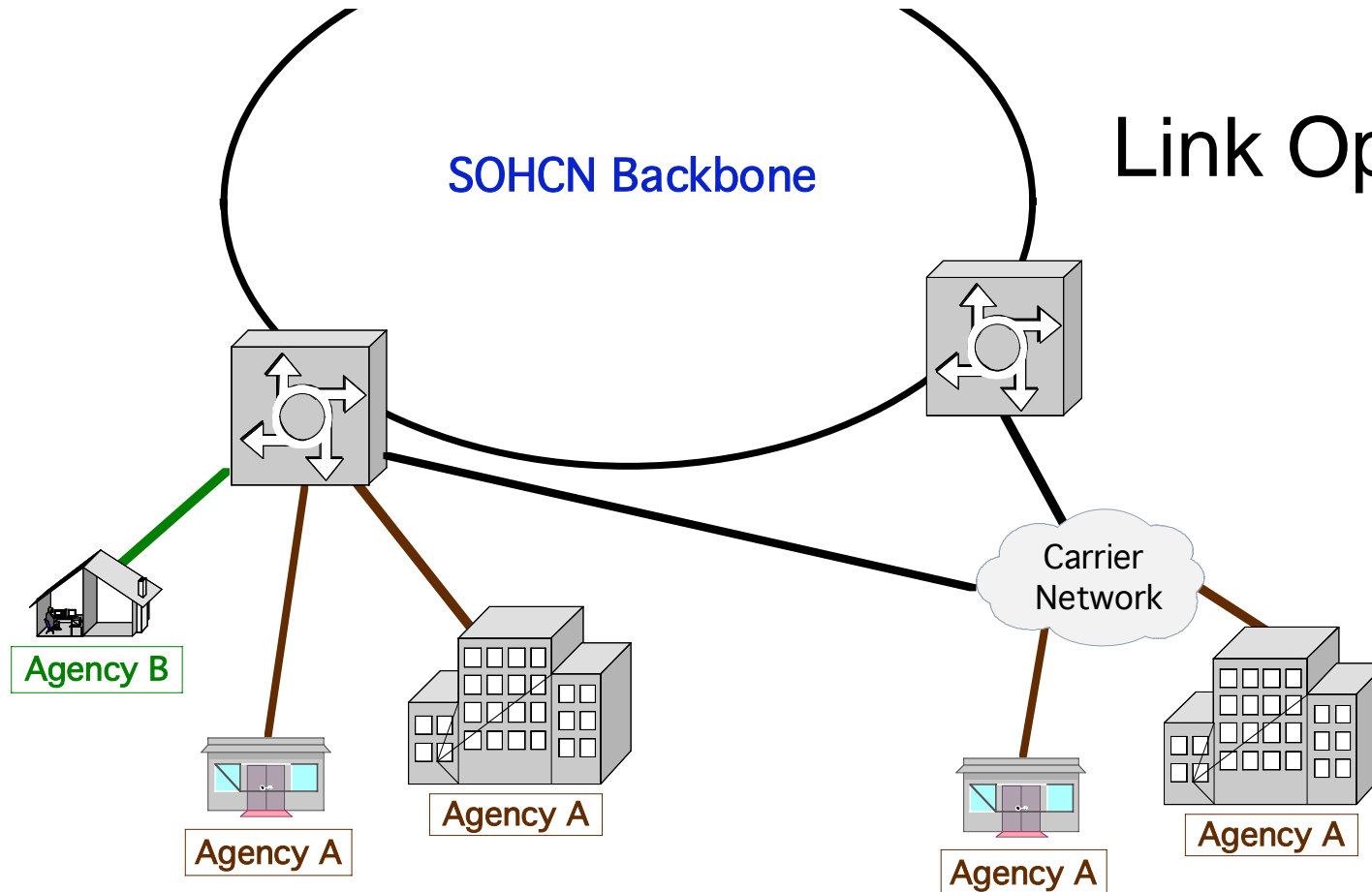


Open Architecture Robust Backbone



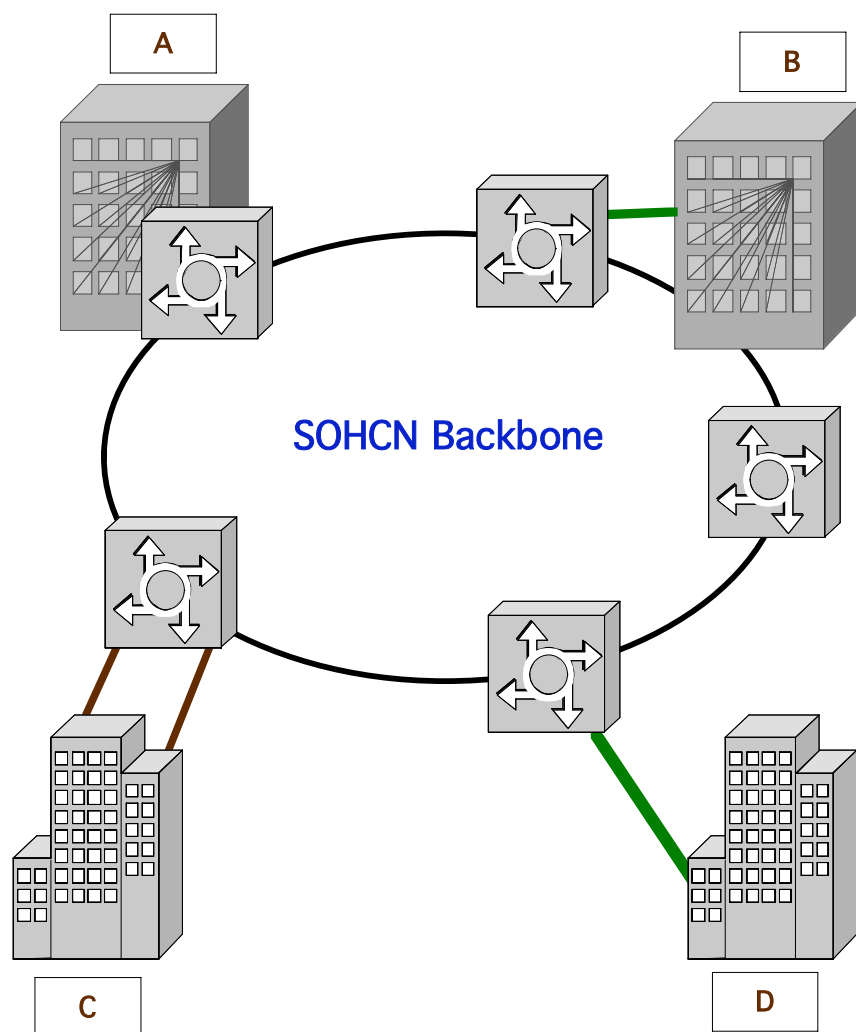
- Fiber optic ring(s) for reliability.
- High speed backbone.
- Capacity to spare for other needs.
- Delivers metropolitan class service to Southern Ohio.

Link Options



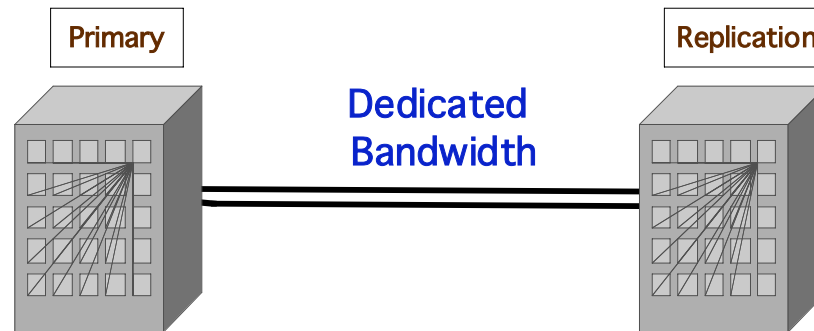
- Dedicated: 10/100/1000 Mbps from facility to SOHCN backbone. QoS from edge outward.
- Shared: 10/100/1000 Mbps from facility into Carrier Network. Aggregate link to SOHCN Backbone. QoS and performance specs. from edge device through the Carrier Network. Carrier Network dual homed into SOHCN backbone.

Key Facility Connectivity Options



- A: Optical POP located at health care facility.
- B: Optical POP located in community, SOHCN backbone passes through facility. Primary services from optical equipment connected to backbone. Secondary connection to the community POP.
- C: Optical POP located in community. Local ring with diverse entry.
- D: Optical POP located in community. Single connection.

Data Replication Links



- Key facilities seek capacity to perform real-time data replication for business continuity and disaster recovery purposes.
- Need dedicated capacity between target facilities separate from the SOHCN backbone capacity, e.g. separate DWDM wavelength.
- Seeking speed options ranging from 1 Gbps to 40 Gbps.
- Possible use of Fiber Channel, FICON and/or ESCON protocols.

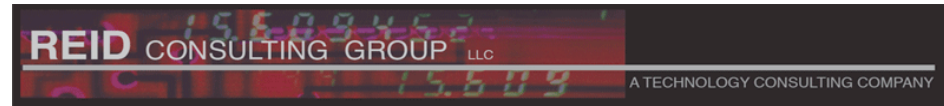
Timeline

- Phase I Counties
 - Field Work: Q1 and Q2-2008
 - RFP: Q4-2008
 - Evaluate: Q4-2008
 - Award: Q1-2009
 - Implement: Q2-2009 to Q4-2009
- Phase II Counties
 - Field Work: Q4-2008 and Q1-2009
 - RFP: Q2-2009
 - Evaluate: Q3-2009
 - Award: Q4-2009
 - Implement: Q1-2010 to Q3-2010

Note: Release of first RFP contingent on FCC approval of requested merger.



Questions?



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