

Illinois: Cook County & SSMMA

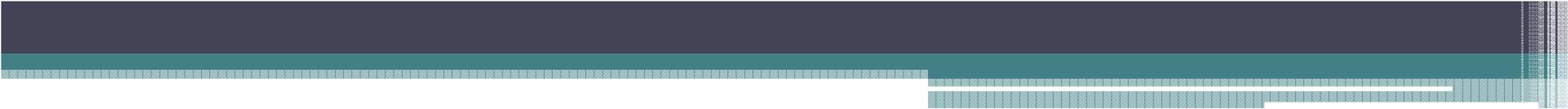
Regionally Connected Consortium



Steve Edmonson, CIO

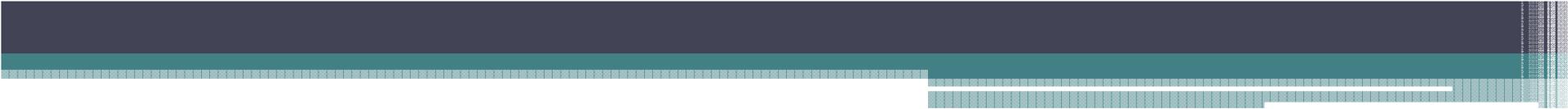


Ed Paesel, Executive Director



Broadband Stimulus Round Two

- Regional Approach Consistent with ARRA BTOP Guidelines
- Provide Cost Effective Broadband to Meet Consortium Member Needs
- Provide Ability to Capitalize on New Technology and Initiatives
- Provides for Future Growth and Expansion



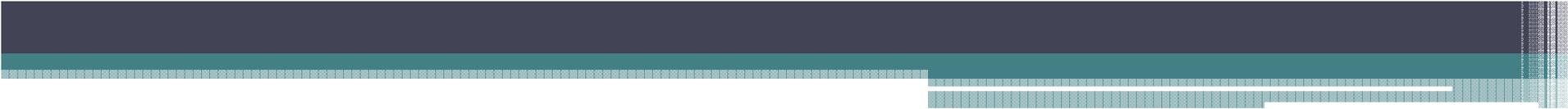
Partnership

- Cook County
- SSMMA
- Will County 9-1-1
- Urban Com- Wireless

Service Areas

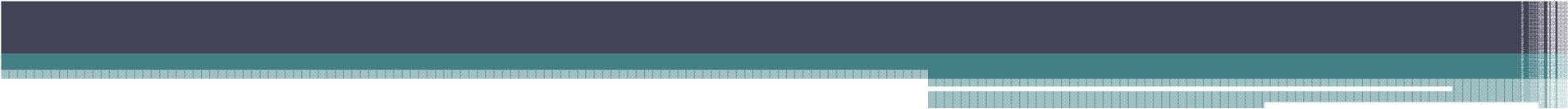
- Cook County – South Suburban
- Will County – Southeast
- Wireless Coverage
 - Cook County – West
 - Cook County - South
 - Will County





Cook County Anchor Institutions

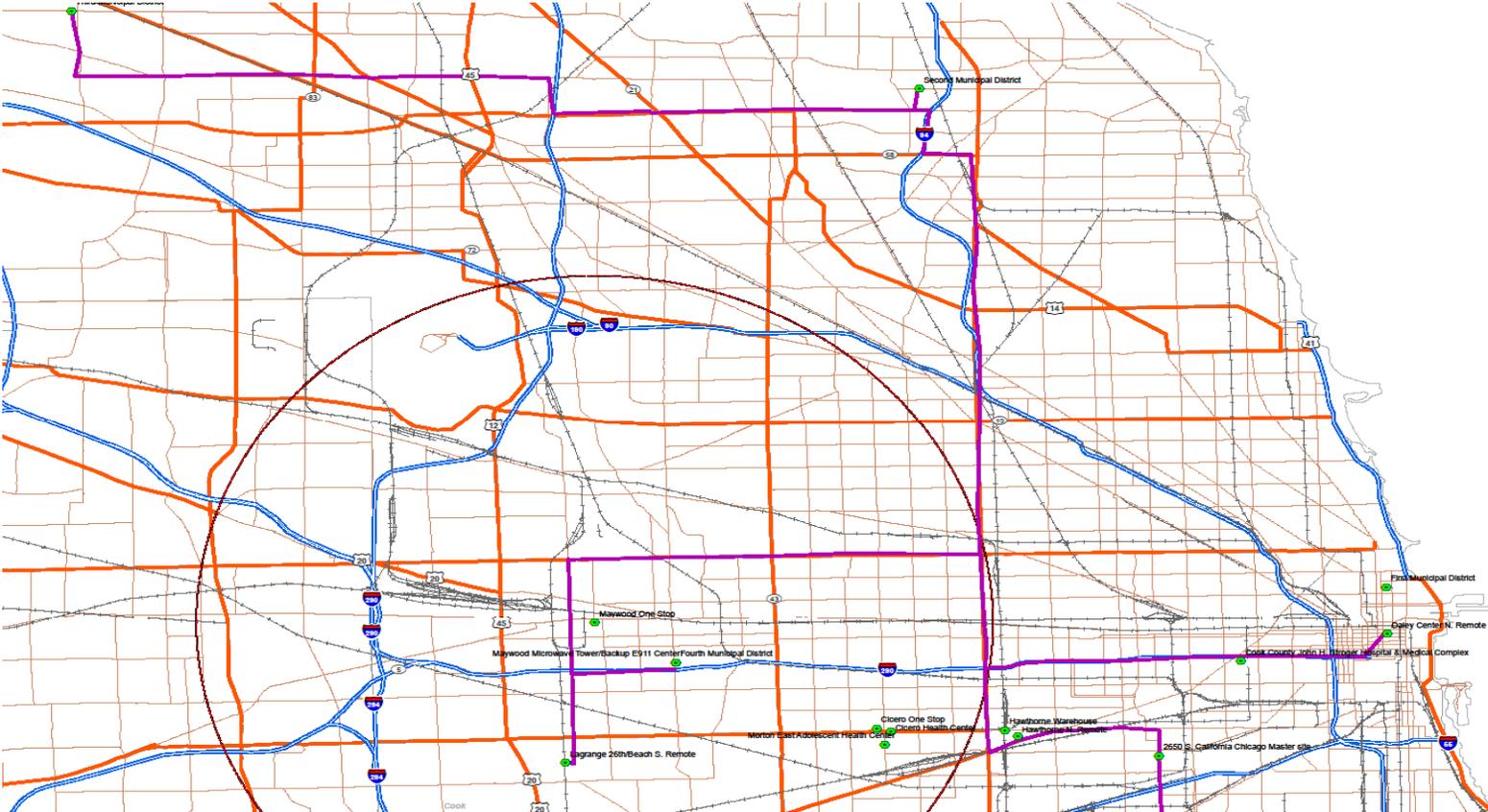
- County Courthouses (6)
- Hospitals (3)
- Health Centers (6)
- Sheriff Towers (7)
- Sheriff Training Center (1)
- POET Training Sites (5)
- County Warehouse (1)



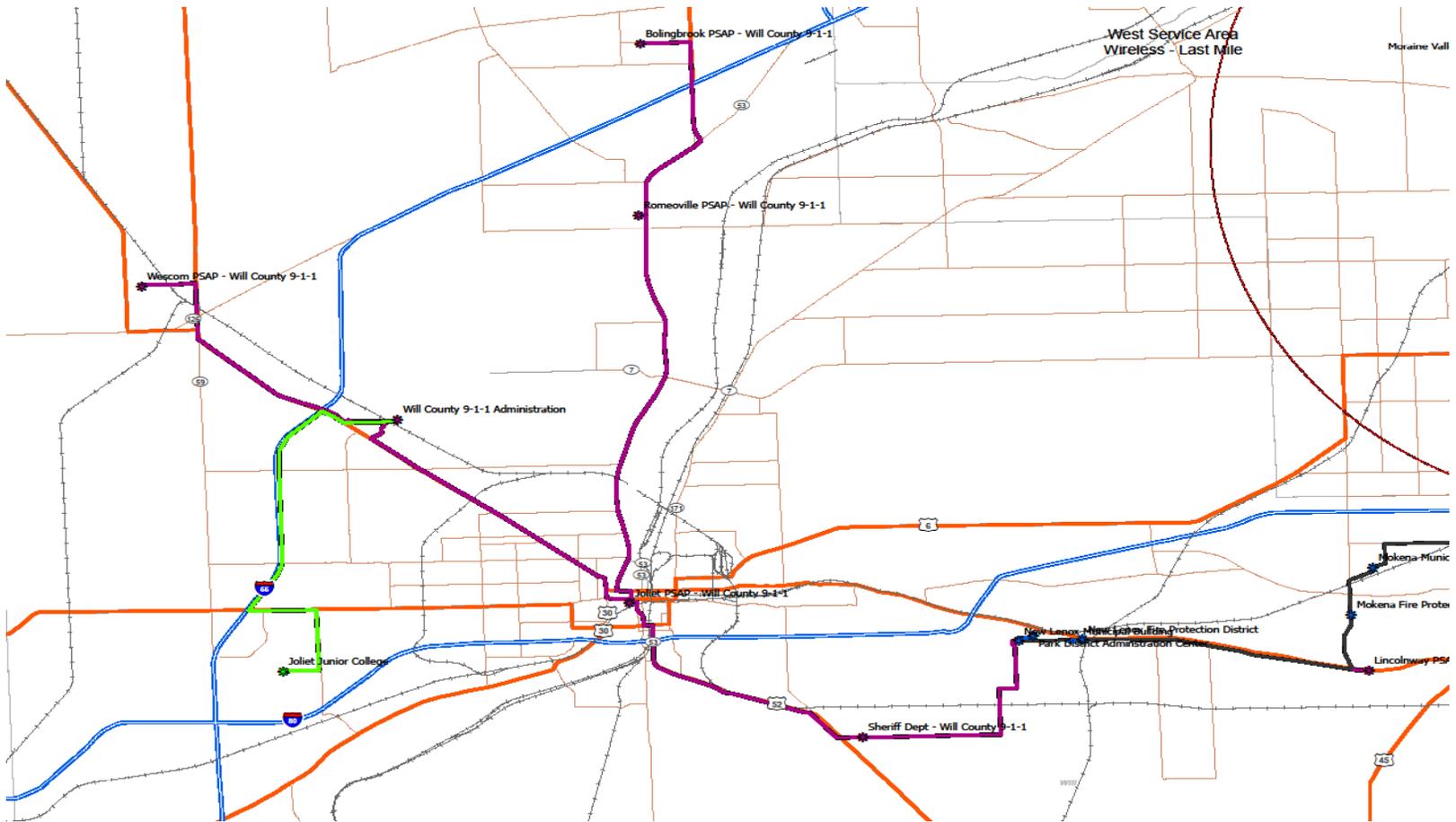
SSMMA Anchor Institutions

- Municipal Government (40)
- Public Safety (19)
- Medical/Health Care (17)
- Other Community Support Organizations (9)
- Community Colleges (7)
- Schools (4)
- Parks (2)

West - Cook County

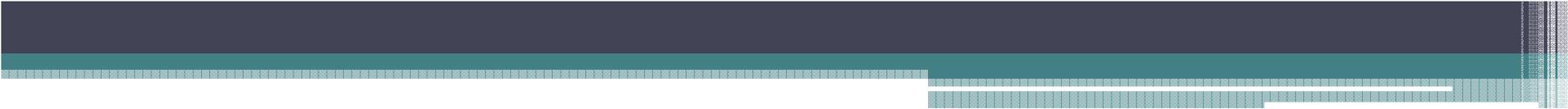


Will County - 9-1-1



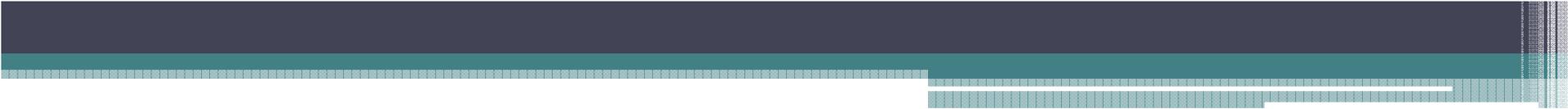
Network Topology

- 266 Miles Fiber Optic Infrastructure
- Open-Access 96 strand, single mode fiber, to all 127 anchor institutions
- Dark fiber available to meet “open-access” requirements
- Dark fiber available to meet high bandwidth anchor institution applications – Example; Cook County Hospital Network, 80 Gigabit bandwidth requirement forecast.
- 2-strand fiber equipped providing Gigabit service available at all locations. (Scalable from 10 Mb to 1 Gigabit bandwidth) Primary ICN and Internet access for anchor institutions and inter-municipal data.
- Wireless Service – 3 Service Areas.



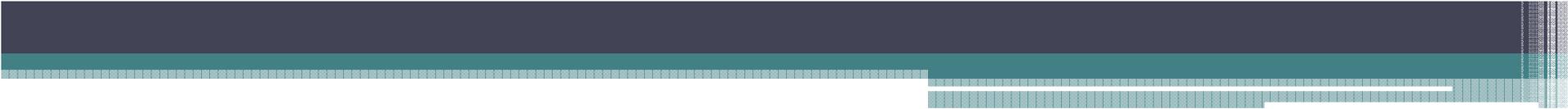
CAI Target Speeds

- 1 Gigabit service to most primary CAIs
- 100 Megabit service
- 10 Megabit service
- Dark fiber access – IRU



Timeline

- 2.5 – 3 years
 - End of Year 1 – Primary gateway services available, first CAI served.
 - End of Year 2 – Substantial network completion, 80 of CAIs served.
 - End of Year 3 – All CAIs served, All operations and support structures fully deployed.



Governance

- Establish Indefeasible Rights of Use (IRUs) for Dark Fiber
- Negotiate with Broadband Providers for Most Cost Effective Service
- Break Even Business Model
- Open Network – Incumbent Service Providers and other private entities, as well as Consortium Members may purchase IRUs and/or fiber capacity
- RFP Process for Design, Build, Operate and Manage Network