Connectivity in Yellow Medicine County

MIDCO
Let's Go®
Extensive Fiber Network
Current Fiber Broadband

- Fiber is the backbone for innovation, including fixed wireless
- 118 MN communities
- 74,389 MN customers
- 63% of MN markets have Gig access
- Over 10,000 Gig customers
10G Evolution

- Leverages recent advances to build upon our Gig capability

- Features fiber-smart, 2-way speeds and carrier-class 10G speeds for future generations of network technology

- Brings world-class capability to rural MN
Fixed Wireless Connects Rural America
Fixed Wireless in Rural America
Taking the Bull Out of Rural Internet

- https://www.youtube.com/watch?v=kix6vaZhvNU&feature=youtu.be
Midco Edge Out™

- Fiber leads all strategic builds
  - Fiber buildouts where possible
  - Fiber-fed towers for internet connectivity

- Fixed wireless is a tool in the toolbox, with various uses
  - Prior to a fiber build
  - Remote areas
  - Difficult terrain

- Awarded $38.9 Million in CAF Phase II
  - $2.3 Million in Yellow Medicine County
Future MN Fixed Wireless Growth

• Edge out current fiber network to serve remote, rural areas

• CAF is the first step in an expansion plan
Future MN Fixed Wireless Broadband

- 7,410 CAF locations in MN
  - 440 in Yellow Medicine County

- Over 100,000 homes passed in MN CAF area

- 100/20+ speeds will be offered; no data caps

- 3-6 year buildout
Proposed Yellow Medicine County Buildout

- Currently serving Canby
- Long-haul fiber from St. Joseph to Canby
  - Should be completed in late-Fall 2019
- 10 *proposed* vertical assets to provide Fixed Wireless
  - 5 assets in the county
  - 5 assets outside the county that will provide coverage in the county
Proposed Yellow Medicine CAF
Current Core Network is LTE

• Carrier-grade network using LTE technology

• “4.5G” current capability; 5G future capability

• Can be upgraded to 2.5 GHz for near and non-line of site when spectrum becomes available
Mid-Band LTE Network

Expected Throughput per Frequency*

*Misattribution of being able to use 40MHz wide spectrum in each frequency
Assistance for Future Deployments

- County/Community-
  - Partnership on Border-to-Border Grant Applications
  - Access to government-owned assets besides MN DOT towers
    - Towers, tall government buildings, etc.
  - Easement access
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