

Fiber/Broadband Opportunities in Fayette County

Conducted for LFUCG by CTC, May 2017



LEXINGTON



AGENDA

- Study purpose
- Study participants
- Study findings/recommendations
- Next steps

STUDY PURPOSE

- Broadband infrastructure and buildout opportunities in Fayette County
- Understand challenge to meet the broadband needs of Fayette County
- Develop potential strategies to meet Fayette County broadband needs
- Develop cost estimates

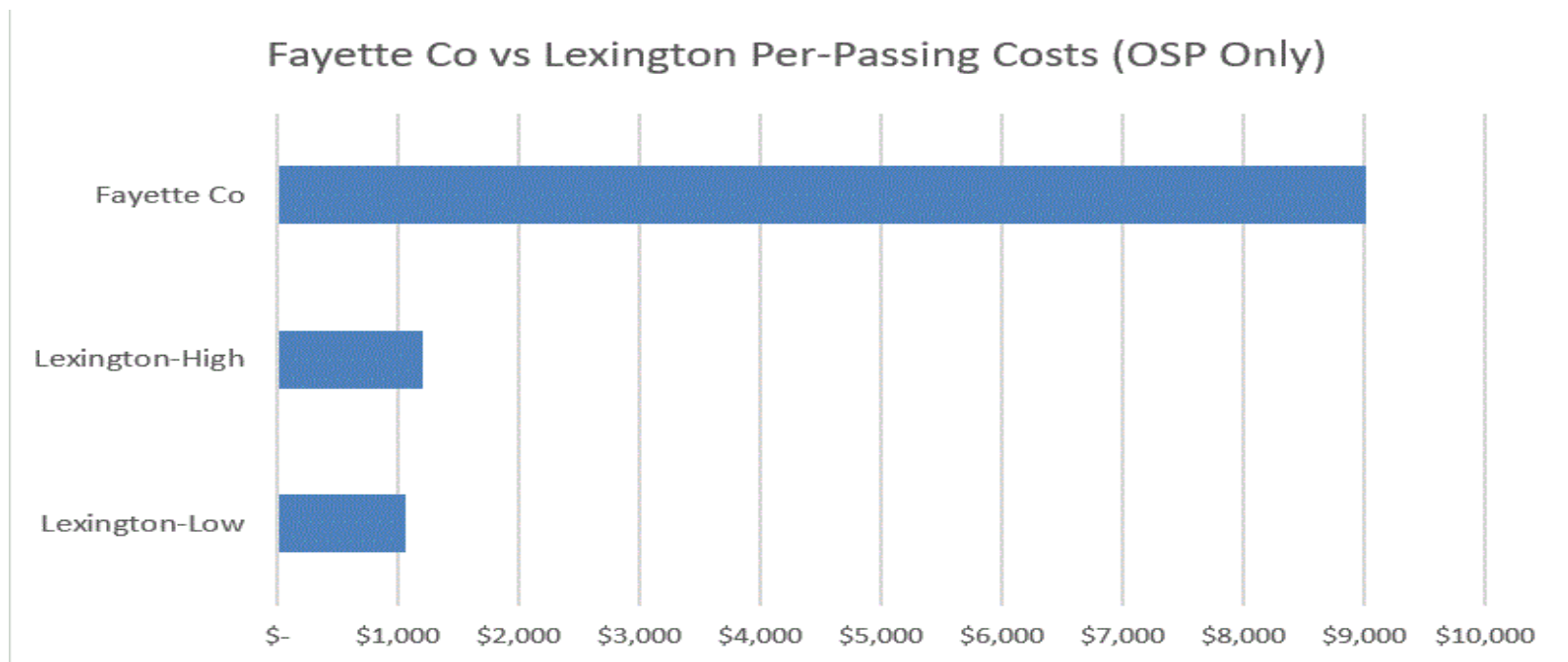
WHO PARTICIPATED?

- CTC Technology and Energy carried out the study (also conducted Urban boundary study in 2015)
- Fayette Alliance members
- Thoroughbred Association members
- Various Fayette County businesses and individuals
- Bluegrass Stockyard representatives
- Keeneland representatives
- Fasig Tipton representatives
- Hagyard Equine Hospital Institute
- Non-scientific survey sent to sampling of participants

FINDINGS/RECOMMENDATIONS

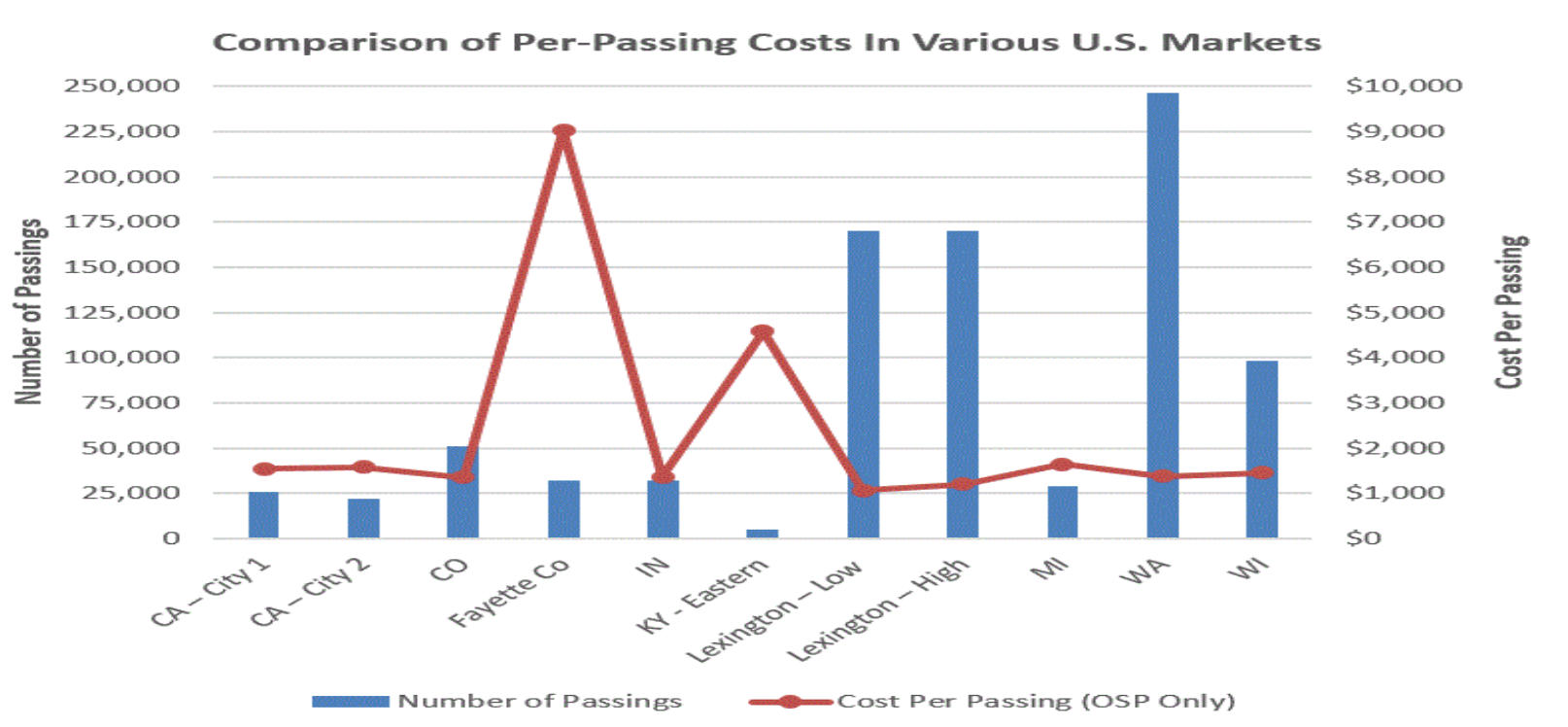
- Fayette County businesses have limited broadband connectivity options
- Windstream and Spectrum have limited plans for widespread deployment of fiber/broadband technology
- Major reason for the lack of connectivity
 - Low-population-density areas - network construction cost 9 times higher in rural (or outside USB) Fayette County than within the Urban Service Boundary

FINDINGS/RECOMMENDATIONS



*OSP (Outside Plant) - refers to all of the physical cabling and supporting infrastructure (such as conduit, cabinets, tower or poles)

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FINDINGS/RECOMMENDATIONS

- Study proposes a middle mile alternative (analogous to state highways)
 - Construct a 113 “middle mile” fiber network to pass City of Lexington facilities and more than 230 of farms and businesses in Fayette County - serve as core platform for deployment of wireless or fiber connections



FINDINGS/RECOMMENDATIONS

- Building a fiber network to every business and home in Fayette County is cost prohibitive



FINDINGS/RECOMMENDATIONS

Other Options

- Pursue potential fiber access in coordination with small cell technology
- Pursue KentuckyWired Fiber Access
- Facilitate discussions with rural businesses/farms to develop a demand aggregation model
- Continue to maintain lines of communication with Windstream and Charter

NEXT STEPS

- Facilitate discussions with rural businesses/farms to develop a demand aggregation model
- Identify possible partners/providers
 - RFP/RFI process
 - Facilitate collaboration with incumbent providers and other local ISPs