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Casey Logan, P.E. Chief Executive Officer

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The Need

In Virginia, ~772,000 people lack access to high-speed internet service (25Mb/3Mb)

- 20% of residents in Prince George County, roughly 6,800 residents, lack access to broadband
- 67% of residents in Sussex County, roughly 7,800 residents, lack access to broadband
- 100% of residents in Surry County, roughly 6,500 residents, lack access to broadband
- PGEC has ~12,000 members in these counties, 57% of under served served population

*Data based off of FCC Dec 2016 data for broadband availability

Current Options

Wireless has optimal speeds between 5 Mbps and 12 Mbps

- -Netflix movie requires 5 Mbps for streaming, 25 Mbps for 4K UHD
- -Each user needs own plan
- -Signal strength
- -Speed issues with pre-loading video, aka "Buffering"

Cellphone Wireless has data caps

- -Average Netflix movie uses between 1-3GB per hour
- -Data overage rates could be as high as \$20/GB

Where Are We Going...

- The Cooperative is currently installing a backbone fiber network that will join our substations
- The Cooperative will use the backbone to supply fiber optic cable to its subsidiary, RURALBAND, for the purpose of supplying it to our member's homes



- Internet speeds for residents will be package options for 50Mbp,
 100Mb, 1G symmetrical for each installation
- No restrictions for the amount of data a member uses
- Speed is greatly increased for fiber optic cable, "no buffering"
- Cost: \$74/50Mb, \$99/100Mb, \$179/1G (router included)

Community Benefits

- Education
 - -Internet is the new encyclopedia
 - -Homework and assignment management
 - -Increased parental involvement
- Telemedicine
- Upgrading emergency services buildings and county institutions
- Economic Development, 70% of new businesses are "from home"
- Average 6% increase in home value

Current Partnerships

- RURALBAND received a \$1 million dollar inducement grant, from Prince George County to deploy broadband in the county
- Since then, Sussex County has partnered with RURALBAND with a \$1.25 million dollar Tobacco Commission grant, for investment in broadband in their county
- Surry County committed \$500,000 for broadband investment in their county

