



MISSOURI BROADBAND INITIATIVE WORKGROUP

Boonslick Regional Planning Commission

March 26, 2018



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WORKGROUP

WHAT IS BROADBAND?

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- Means something different to each of us
- Federal Communications Commission (FCC) defines it in terms of speed – 25 Megabits (MBPS) per second download and 3 MBPM upload – fixed services/not mobile
- FCC further defines it as “high-quality” capability that allow users to “originate and receive high-quality voice, data, graphics, and video services – basically high-speed internet
- I basically just ask – can you do what you need to do on the internet

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- Individual needs – social/recreational including Facebook, Snap Chat, Itunes, researching the WWW, email, etc.
- Broader needs – farmer doing precision farming, businesses marketing world wide, entrepreneurs marketing their goods and services over the internet, taking education classes on-line, etc.
- Community needs – healthcare/telemedicine, economic development, government services, workforce development
- All of the above require different speeds to be able to do the functions.

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HAS ANYONE EVER SEEN THIS?

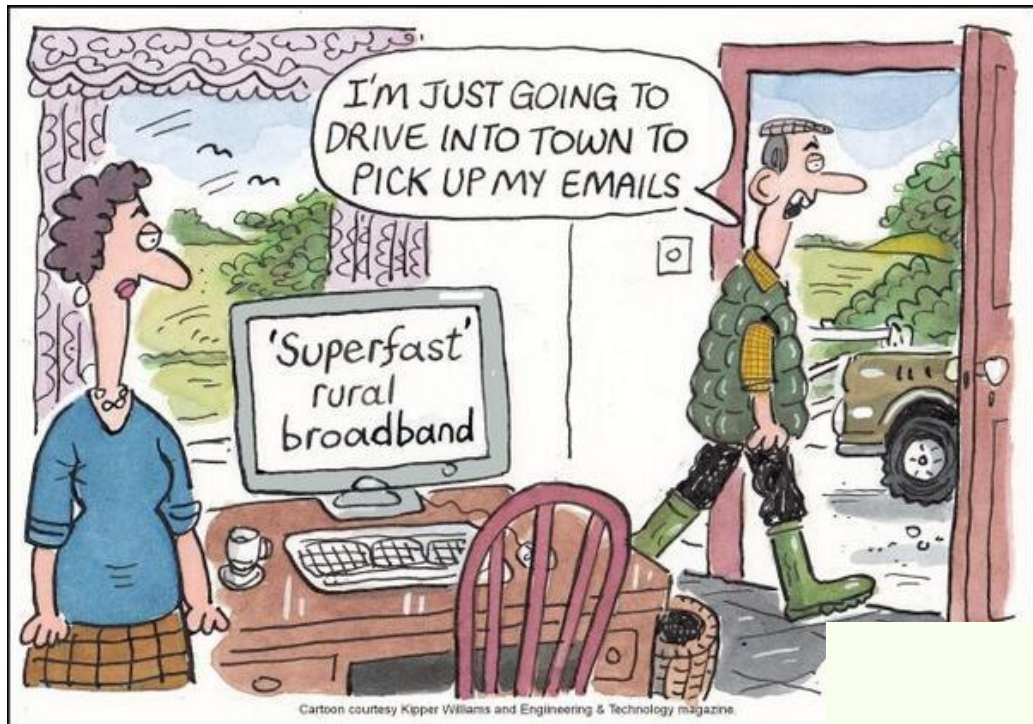
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- There are many names for this – I call it the spinning wheel of death
- Depending on the type and make of equipment it may be like this one - rainbow, or it may be black and white, or it may look different; but whatever it looks like it means the same thing
 - ✓ The system cannot handle what you are trying to do
 - ✓ Too low of a speed
 - ✓ Lots of users on the system
 - ✓ You are at your data limit and the system has been slowed down deliberately

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@GABRIEL UTASI
06-07-07



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- Pictures in previous slide describe adequately much of Missouri – what is the Missouri healthiness on broadband?
 - Overall ranking for Missouri nationally is 42nd most connected state
 - Missouri ranked 49th on average “peak” speeds – speeds advertised are typically maximum speeds but not the actual speeds you receive
 - 16.4% of the state has access to fiber optic service – why is this important – this is the only technology that is “future-proof” – it will not outgrow any future new technologies requiring higher speeds
 - There are 1.2 million people in MO without access to a wired connection capable of 25 MBPS
 - There are 1.0 million people in MO that have access to only one wired provider leaving them no options to choose or switch

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- Another 440,000 people in MO do not have any wired internet providers available where they live – this means they use their mobile phones
- Missouri schools
 - 88% school districts meet the national definition of 100 KBPS
 - 95% school districts are on fiber – 91 of 2168 schools do not
 - 85% have wi-fi
- Missouri population little over 6M with approximately 70% being urban and 30% living in rural
- Land Mass is almost the opposite – 70% landmass is rural and 30% is rural
- About 39% rural Americans lack broadband where only 4% urban areas lack broadband
- About 61% rural Missourians lack broadband – 5% of urban Missourians lack broadband
- 8 counties with highest download speed were: Mississippi, Camden, Jackson, Scott, Cass, Lafayette, St. Louis City, and Johnson
- 10 Counties with lowest download speeds were: St. Francois, Adair, Clark, Shelby, Knox, Putnam, Pike, Schuyler, Scotland and Ste. Genevieve.

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- 97% Americans shop online for goods and services
- 60-70% jobs are posted online
- Broadband infrastructure costs depends on how many people they can spread the cost
 - National = 87.4 Americans per square mile
 - Missouri = 87.1%
 - Urban Areas in MO – can have as many as 5000 per square miles
 - Rural Areas in MO – can have as low as 1-2 per square mile
- Costs of broadband can be high – Most of Missouri ranges from \$40 per month - \$100 or more depending on where you are, what technology you are using, what speeds you are getting and your data plan

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- 3 County RPC region is Warren, Lincoln and Montgomery
 - Population is 97,315
 - 1645 square miles
 - 59.16 persons per square mile
 - Under MO average but higher than most rural areas – due to your close proximity for two of the three counties to St. Louis
- Data from broadbandnow.com/Missouri – enter your zip code and you get a lot of information
 - Broadband providers, speed they offer, prices, how many in the community and county have broadband, etc.
 - CAUTION – not all information is correct, information is overstated, but it does give an indication
 - Data from anywhere is NOT reliable as only get from FCC 477 form reported by some of the providers – not all report and not verified as accurate
- I have looked at sampling of communities from each of your 3 counties – let's take a look

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- General observations:
 - Lincoln and Warren Counties look better than Montgomery County
 - The larger communities look better such as Troy and Warrenton
 - Costs run \$40-\$100 for about 10 MBPS or less
- Warren County (Warrenton, Marthasville, Wright City)
 - Fiber Optic is available to 2% of Warren Co. residents/businesses
 - 1,000 people don't have access to any wired internet
 - 17,000 people do not have access to 25 MBPS wired broadband
 - 25% Warrenton are severely limited in wired broadband choices, 56% Marthasville and about 52% Wright City
- Lincoln County (Troy, Elsberry, Winfield, Hawk Point, Moscow Mills)
 - Fiber Optic is available to 3% Lincoln County (7% in Troy)
 - 3,000 people don't have access to any wired internet
 - 31,000 people do not have access to 25 MBPS wired broadband

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- Lincoln County (cont)
 - 17% Troy severely limited in wired broadband choices, 92% Elsberry, 33% Moscow Mills, and 100% Hawk Point
- Montgomery County (Montgomery City, Jonesburg, Wellsville)
 - Fiber Optic is available to 9% of Montgomery Co. residents/businesses
 - 2,000 people don't have access to any wired internet
 - 6,000 people do not have access to 25 MBPS wired broadband
 - 34% Montgomery City severely limited in wired broadband choices, 99% Jonesburg, 98% High Hill and about 39% Wellsville
- Many providers are satellite, cable and wireless
- Average speeds vary among the communities in these three counties
 - Troy with the highest at 21.19
 - Warrenton average speed is 20.29
 - Jonesburg average speed is 12.61
 - Elsberry average speed is 6.55
 - Montgomery City average speed is 4.34
 - Hawk Point average speed is 3.82
 - High Hill average speed is 1.90

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THIS IS A
BIG DEAL!

Broadband Development. Let's do it together to ensure Missouri's place in the world, today and into the future.

It is no longer nice to have, *it's a necessity*. For our state, our communities, our businesses, our families and ourselves.

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- **SO WHAT DO WE DO TO TURN THE SHIP AROUND?**
 - Missouri Broadband Initiative Group – Missouri Farm Bureau, Missouri Department of Agriculture, Missouri Department of Economic Development, University Of Missouri Engagement and Outreach and the Governor’s Office – efforts and recommendations
 - Latest Developments
 - Establishment of State Broadband Office
 - Hiring of State Broadband Manager (in the works)
 - Legislation to support Electric Coops in the broadband business and Establishment of a State Broadband Fund
 - Governor “proposal” to put \$45 M in the budget for infrastructure that is “proposed” to include broadband infrastructure and \$1M for data gathering and mapping the state on broadband – “You can’t manage what you can’t measure”
 - **WE NEED YOUR HELP!!**
 - You as rural community elected officials and residents play a very important role in addressing this issue
 - Need to educate people what broadband is, what it can be used for and how it can help them – “You don’t know what you don’t know and you can’t miss what you never had”
 - Get involved



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