



OHIO DEPARTMENT OF
TRANSPORTATION

&

CONNECT
OHIO.

TIGER VII Discretionary
Grant Application

March 1, 2017



OHIO DEPARTMENT OF TRANSPORTATION

Benefits to ODOT

Improved broadband coverage will provide more connectivity in areas with currently limited broadband service.

- **Schedulers will be able to dispatch trips to drivers in real-time giving customer's better access to transportation thereby reducing trip refusals, denials and turn downs.**
- **Software will be able to route vehicles more efficiently, altering driver's routes if trips are added increasing number of passengers per hour.**



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Benefits to ODOT

Improved broadband in areas with current access will improve service speed and reliability.

- **GPS vehicle tracking will be real-time.**
- **Drivers will be able to utilize mapping features to locate addresses or common destinations.**



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ODOT and Connect Ohio identified 10 priority counties where broadband coverage (especially mobile) was less than 10 Mbps x 1 Mbps.

This included Carroll, Guernsey, Harrison, Monroe, Morgan, Muskingum, Perry, Pike, Scioto, and Washington (13,541 base miles).

In order to improve mobile coverage, it was decided that Connect Ohio would conduct “drive testing” in these 10 counties to collect data to confirm, or identify, exact gap locations on the roadways within each county.

ODOT then ranked each county...

Priority Ranking	County	Starting Miles	Linear Drive Buffer	Total Estimated Miles
1	Carroll	1,171.83	539.04	1710.87
2	Guernsey	1,741.97	801.31	2543.28
3	Muskingum	1,896.19	872.25	2768.43
4	Pike	1,021.04	469.68	1490.72
5	Harrison	1,012.09	465.56	1477.65
6	Morgan	1,010.44	464.80	1475.24
7	Perry	1,027.65	472.72	1500.37
8	Scioto	1,687.87	776.42	2464.29
9	Monroe	1,195.62	549.99	1745.61
10	Washington	1,776.36	817.13	2593.49



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Connect Ohio sent requests to AT&T, Sprint, T-Mobile and Verizon seeking their contribution of test handsets (telephones) with unlimited and un-throttled data accounts.

Testing began in Muskingum and Carroll counties on December 7, 2016 and concluded January 3, 2017. Scioto County began February 23. Target completion date (all counties) is April 30, 2017.

Test results are measured individually but clustered into groupings to help identify actual gaps.

Download Speed

- 25 Mbps+
- 10 - 24.99 Mbps
- 0.01 - 9.99 Mbps
- Test Failed



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The intent is to drive every possible roadway to compile data.

This will exclude driveways $< \frac{1}{4}$ mile in length and alternating streets in populated areas.

When a barrier is encountered, geocoded photographs are taken.

Final maps will present multiple “views” to help you identify the best mobile carrier for your scheduling software and to help Connect Ohio, through collaboration with various broadband providers, fill these critical gaps in each county.

Do you use external antennas? Why are they important?



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Would you like to see a few samples of the maps that you will be receiving soon?