Determining Broadband Truth

Lived-Experience of Millions of Americans

20 March 2023

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Crowdsourced speed tests deliver:

- Concrete availability maps
- Progress tracking for accountability

**OOCL**
Based on Ookla® Speedtest Intelligence® for Fixed Networks

**Millions of consumer-initiated speed tests**

**vs**

**Continuing to believe whatever the ISPs report**

**Require ISPs to prove their capabilities**

20 March 2023
Truth on the Ground Using Crowdsourced Data

Preponderance of evidence and statistical compensation overcome prevalent myths

**Myth A:** People in that area only subscribe to the low-speed packages.  
**Reality:** 25% to 33% of subscribers opt for the top speed offered.

**Myth B:** Bad tests are because of poor Wi-Fi.  
**Reality:** We dropped speed tests with poor Wi-Fi signal strength. We also included tests from GPS-enabled wired devices.

**Myth C:** People only run a test when there is a problem.  
**Reality:** We focus on the maximum speed tests. Network problems do prompt tests, as do resolutions of problems.

20 March 2023
Example of Analysis

Bolivar Area

20 March 2023
Ookla Locations – Bolivar Area

Preponderance of evidence clearly demonstrates that much of the rural area around Bolivar remains unserved.

20 March 2023
Ookla-Based Ratings vs Carrier Claims to FCC
Bolivar Area

Speedtest Based @ Max

Overlay of Carrier Reported Over 100/20

Carrier Reports Above 100/20 to FCC

20 March 2023
<table>
<thead>
<tr>
<th>FCC Fabric Locations &amp; % Change from Avg</th>
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<tbody>
<tr>
<td>Below 10/1</td>
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<tr>
<td>Above 10/1, Below 25/3</td>
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190,000 [  -3%]  430,000 [  -4%]  200,000 [-37%]  752,000 [-39%]  866,000 [+39%]
Missouri Reality @ Max

Missouri in New FCC Map

Based on 3+ million speed tests

Based on unverified ISP coverage claims

- Below 25/3
- Above 25/3, Below 100/20
- Above 100/20

Missouri Reality @ Max

Based on 3+ million speed tests

Missouri in New FCC Map

Based on unverified ISP coverage claims

- Below 25/3
- Above 25/3, Below 100/20
- Above 100/20
Ohio Reality @ Max
Based on 14+ million consumer-initiated speed tests

Ohio in ISP Fantasy
Based on unverified ISP coverage claims

20 March 2023
Tracking Progress to Establish Accountability

Proposal State

Mid-Project

Project Completion

Could require such verification prior to milestone payments to grantees

20 March 2023
Before
2020-21 Locations @ Max

Guernsey County Ohio

20 March 2023
Area Awarded to Charter in RDOF

Before
2020-21 Locations @ Max

After
2022 Locations @ Max

Demonstrates effectiveness of crowdsourced data in identifying unserved areas and tracking progress