Travis Durick
Broadband Technology Manager

Broadband Mapping Project

- State Broadband Initiative (SBI)

- ITD awarded $3.7M in Federal Funding
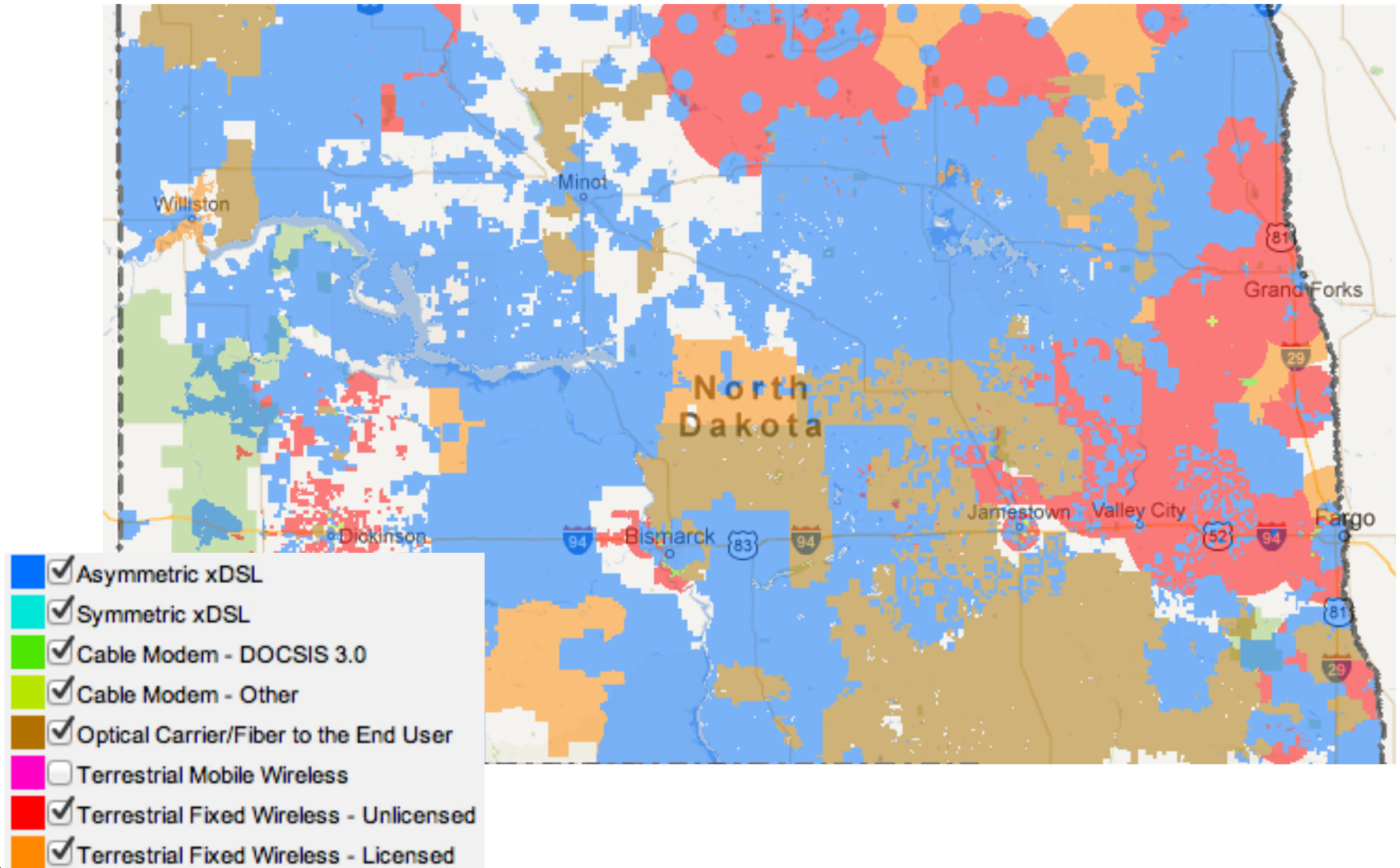
- Aims to measure and improve ND's broadband service

SBI Grant Program

- Broadband Mapping Initiative

- Community Training Workshops

- Public Safety Broadband Strategic Plan

Broadband Mapping

- Map and Measure State broadband availability and speed

- Mapping fixed and wireless broadband

- Map is live @ http://broadband.nd.gov

Current Broadband Coverage

ND's Digital Divide

- Large pockets of territory without true broadband

- Large areas with advanced Fiber Optic technology

- Identify, Measure, Address

Cellular Broadband Mapping

- CellHunter Application to measure cellular coverage and speed

- Provides useful information for residents and govt.

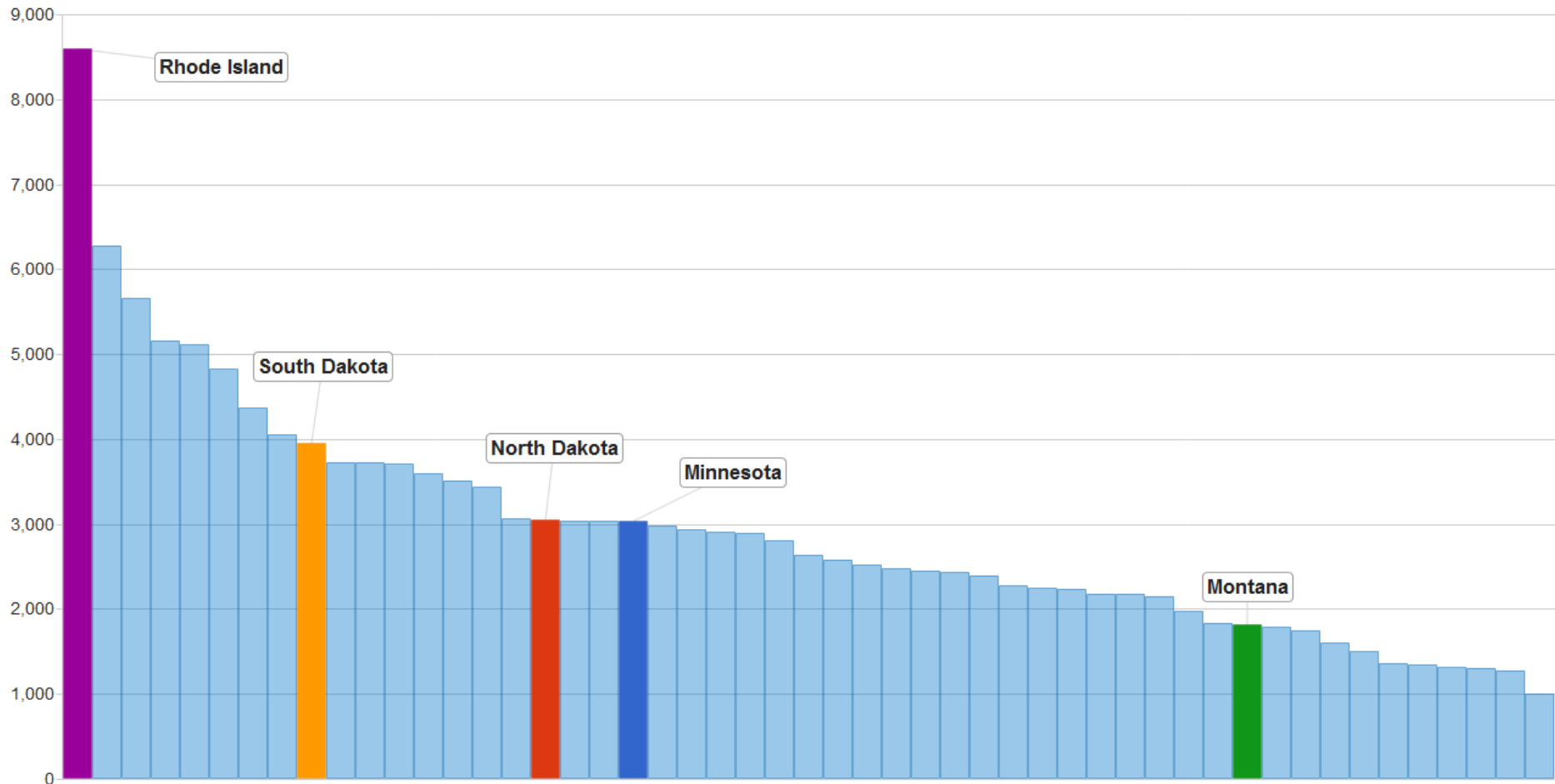- Driving this summer

Broadband Speedtest

- Application to measure and track broadband speeds

- Helps rank ND nationally and compare regional trends

- Test is live @ http://broadband.nd.gov
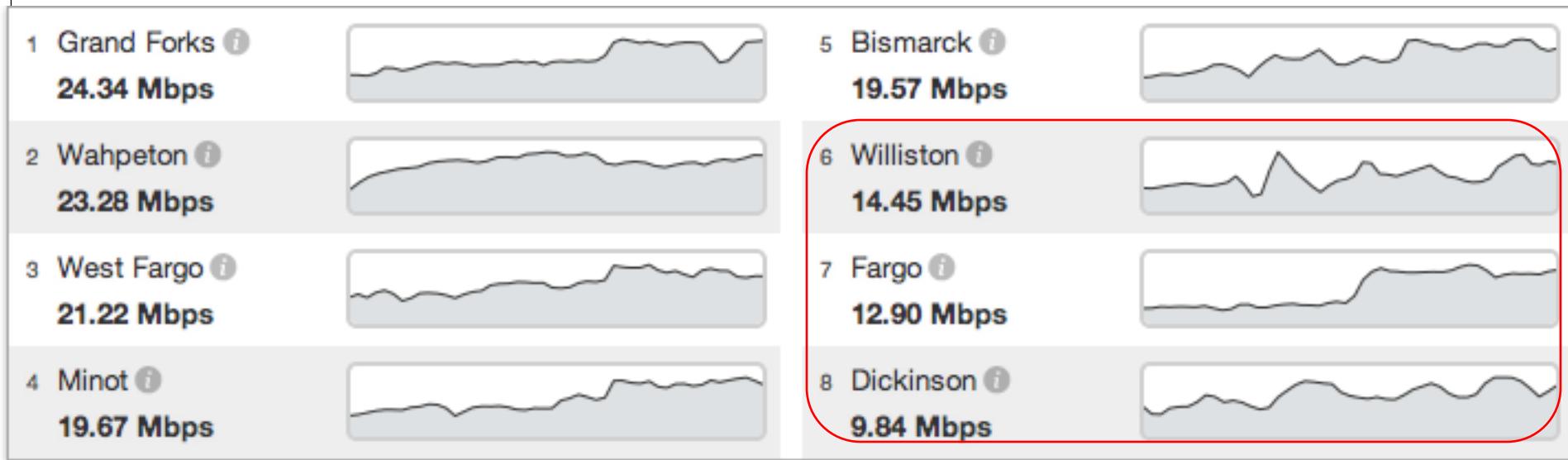
U.S. | Download Speeds
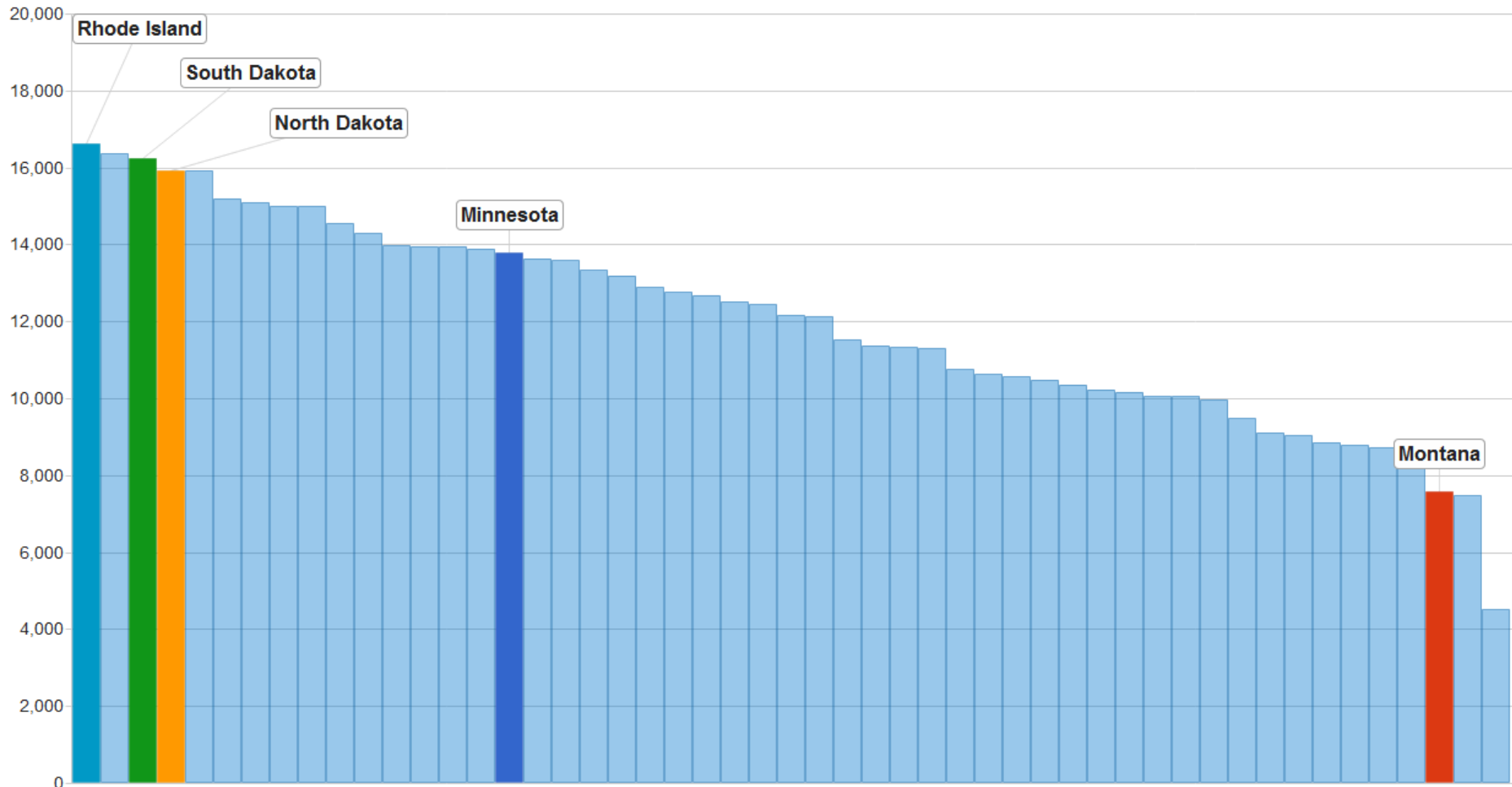
ND ranks #4 in National Download Speed!

U.S. | Upload Speeds

We rank 19ᵗʰ in upload speeds.

N.D.| City Download Performance

1 Grand Forks ℹ️
24.34 Mbps

2 Wahpeton ℹ️
23.28 Mbps

3 West Fargo ℹ️
21.22 Mbps

4 Minot ℹ️
19.67 Mbps

5 Bismarck ℹ️
19.57 Mbps

6 Williston ℹ️
14.45 Mbps

7 Fargo ℹ️
12.90 Mbps

8 Dickinson ℹ️
9.84 Mbps

There is a wide performance gap even among our largest cities.

N.D.| City upload Performance

1	West Fargo ⓘ 5.26 Mbps		5	Minot ⓘ 3.46 Mbps	
2	Grand Forks ⓘ 5.19 Mbps		6	Williston ⓘ 3.33 Mbps	
3	Wahpeton ⓘ 4.86 Mbps		7	Fargo ⓘ 2.05 Mbps	
4	Bismarck ⓘ 3.68 Mbps		8	Dickinson ⓘ 1.37 Mbps	
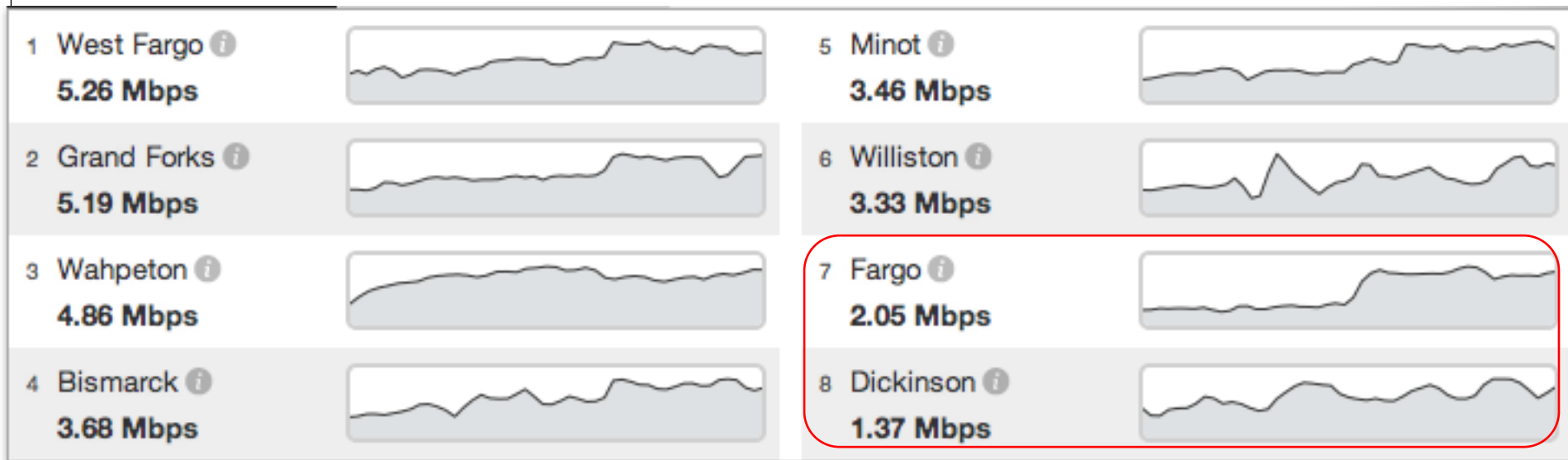
Again, there are large differences between cities.

Why does speed matter?

- Enables advanced applications that matter to everyone

- Those without are left behind

- Examples – Map search

Community Training Workshops

- EduTech developed curriculum for community technology training classes

- Great response! Private companies interested in sponsoring additional classes

- Investigating a small business training course

Public Safety Strategic Plan

- Lots of parallel developments
  - NG 9-1-1
  - 700MHz FirstNet
  - HIE
- Leverage broadband map
- If coordinated, the possibilities are grand

Public Safety Strategic Plan

- NG 9-1-1
  - Using IP technology to deliver calls and data between citizens, PSAPs, and responders
  - Engaged in pilots and planning activities
- FirstNet
  - Utilized SBI planning funds to perform preliminary activities for FirstNet planning
  - Tower/Asset inventories