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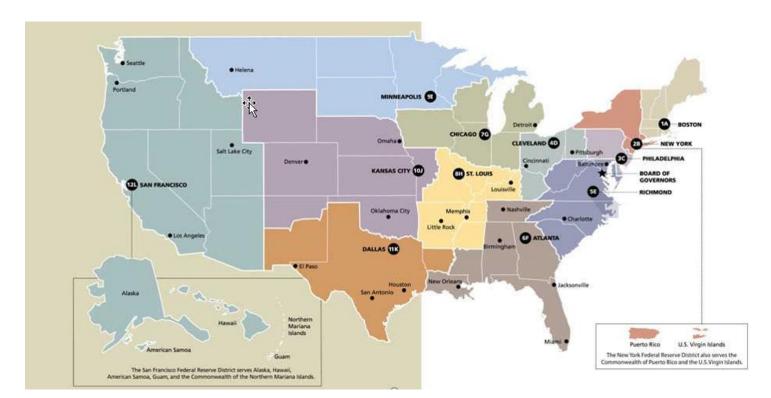


#### The Federal Reserve Bank of Kansas City



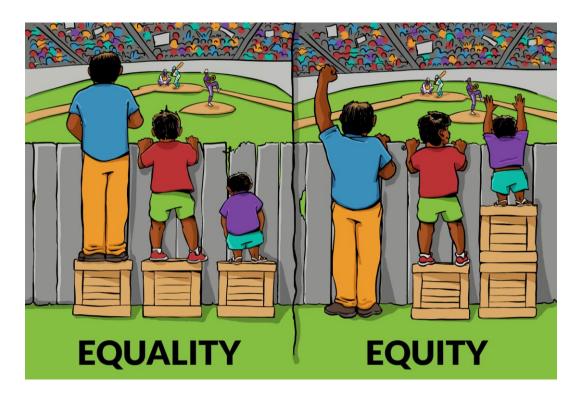


## The Federal Reserve System





# Why this, why now?







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President and Chief
Executive Officer
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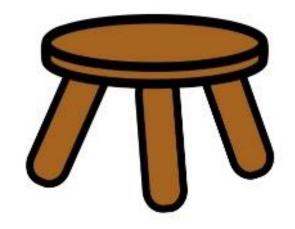




# What is Digital Equity?

#### A Three-Legged Stool:

- 1. Affordable broadband
- 2. A computer
- 3. Skills to use it





#### A few Definitions

**Broadband:** An internet connection with minimum download speeds of 25 Mbps and minimum upload speeds of three Mbps.

**Symmetrical speed**: A connection with equal download and upload speeds.

Broadband availability: It's there.

Broadband adoption: People subscribe.





#### Less than 5 Mbps

1 device
Surf the internet
Don't upload large files
Don't get greedy





#### 25/3 Mbps

1-2 devices
Surfing the web
Email
Social networking
Moderate video streaming





#### 50 Mbps

3+ devices connected Video streaming Gaming





500-1,000 recommended for:

Bring all-y'all's friends

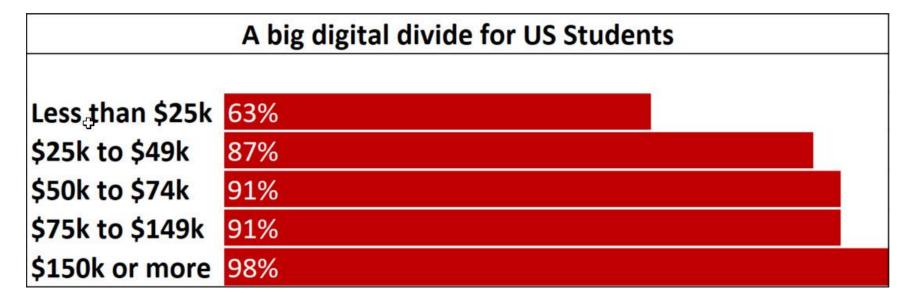


# Speeds Vary by Technology

Technology	DSL⁴	Fixed Wireless	Cable <sup>5</sup>	Fiber-optic
Median Down (Mbps)	15.000	15.000	400.000	940.000
Urban	18.000	15.000	400.000	940.000
Rural	10.000	12.000	300.000	1,000.000
Median Up (Mbps)	1.000	3,000	20.000	880.000
Urban	0.768	4.000	30.000	880.000
Rural	1.000	3.000	20.000	150.000



## Who has Broadband + Computers?



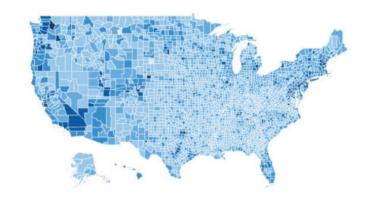


#### Who has Broadband?

FCC indicates broadband is not available to 24.7M people

Microsoft data indicates 162.8M people do not use the internet at broadband speeds





\* FCC fixed broadband has or "could" provide greater than or equal to 25Mbps / 3Mbps



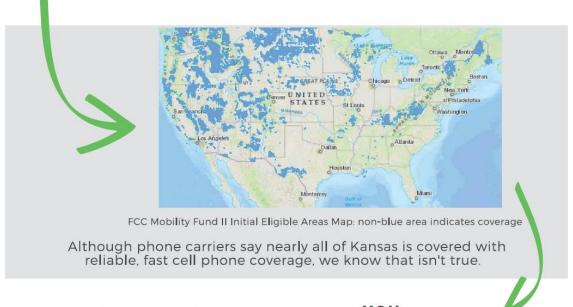
Broadband speed greater than or equal to 25Mbps





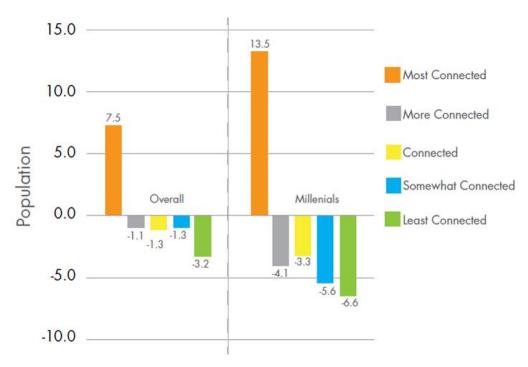
## Why Maps Matter

### #CONNECTINGKANSAS





### **Connected Communities Grow**





The Daily Yonder

## Kansas Updates

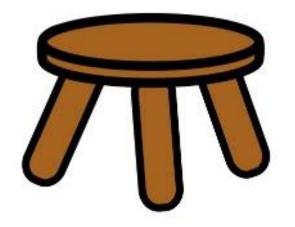
- Office of Broadband Development
- \$50M Connectivity Emergency Response Grants



# What is Digital Equity?

#### A Three-Legged Stool:

- 1. Affordable broadband
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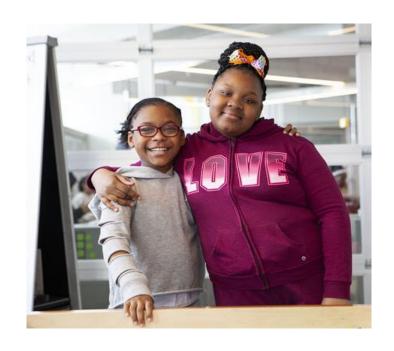


















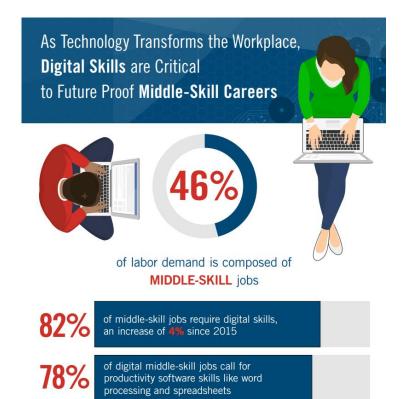


# Durango, Colorado





# Digital Skills





# Digital Skills





APRIL 30, 2020



#### 53% of Americans Say the Internet Has Been Essential During the COVID-19 Outbreak

Americans with lower incomes are particularly likely to have concerns related to the digital divide and the digital "homework gap"

BY EMILY A. VOGELS, ANDREW PERRIN, LEE RAINIE AND MONICA ANDERSON





Economy

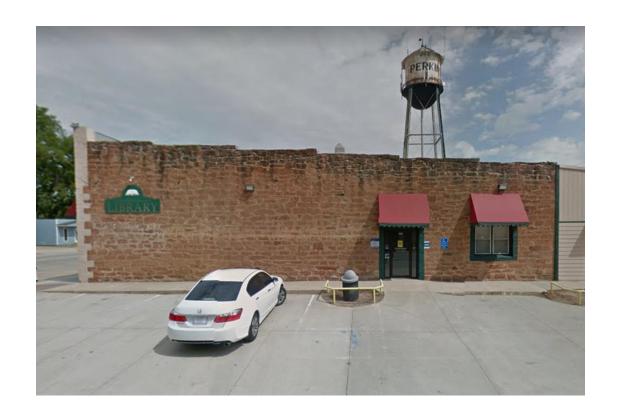
### The latest crisis: Low-income students are dropping out of college this fall in alarming numbers

Many low-income students say they don't have good enough WiFi at home to take online courses.



Paige McConnell is photographed in the Roane State Community College parking lot. McConnell dropped out of school this fall because she does not have good access to Wifi to take virtual classes. (Stacy Kranitz for The Washington Post)











# Stop-gap Measures



