

References: Digital Equity Playbook: How City Leaders Can Bridge the Digital Divide

- ¹ Busby, J., & Tanberk, J. (2021, April 30). FCC reports broadband unavailable to 21.3 million Americans, BroadbandNow study indicates 42 million do not have access. BroadbandNow Research. broadbandnow.com/research/fcc-underestimates-unserved-by-50-percent
- McKinley, S. (2020, March 5). *Microsoft Airband: An annual update on connecting rural America*. Microsoft. blogs.microsoft.com/on-the-issues/2020/03/05/update-connecting-rural-america
- ² Intel World Ahead. (n.d.) *Realizing the benefits of broadband*.
- www.intel.com/content/dam/www/public/us/en/documents/white-papers/world-ahead-broadband-paper.pdf
- ³ Clyburn, M. (2016, August 2). *Remarks of Commissioner Mignon L. Clyburn at the launch of the mapping broadband health in America platform, Microsoft Innovation and Policy Center*. Federal Communications Commission. www.fcc.gov/document/commissioner-clyburn-remarks-mapping-broadband-health
- ⁴ National Digital Inclusion Alliance. (n.d.). *Definitions*. <u>www.digitalinclusion.org/definitions</u>
- ⁵ National Digital Inclusion Alliance. (n.d.). *Definitions*.
- ⁶ U.S. Federal Communications Commission. (2019, May 29). *2019 broadband deployment report*. docs.fcc.gov/public/attachments/FCC-19-44A1.pdf
- ⁷ Busby, J., & Tanberk, J. (2021, April 30). FCC reports broadband unavailable to 21.3 million Americans.
- ⁸ McKinley, S. (2020, March 5). Microsoft Airband: An annual update on connecting rural America.
- ⁹ Tomer, A., Fishbane, L., Siefer, A., & Callahan, B. (2020, February 27). *Digital prosperity: How broadband can deliver health and equity to all communities*. The Brookings Institution. www.brookings.edu/research/digital-prosperity-how-broadband-can-deliver-health-and-equity-to-all-communities
- ¹⁰ Tomer, A., Fishbane, L., Siefer, A., & Callahan, B. (2020, February 27). *Digital prosperity*.
- ¹¹ Floberg, D. (2018, December 13). The racial digital divide persists. *Free Press*. <u>www.freepress.net/our-response/expert-analysis/insights-opinions/racial-digital-divide-persists</u>
- ¹² Tomer, A., Fishbane, L., Siefer, A., & Callahan, B. (2020, February 27). *Digital prosperity*.
- ¹³ Older Adults Technology Services. (2021, May). *Aging connected: Exposing the hidden connectivity crisis for older adults*. www.agingconnected.org/wp-content/uploads/2021/05/Aging-Connected Exposing-the-Hidden-Connectivity-Crisis-for-Older-Adults.pdf
- ¹⁴ National Digital Inclusion Alliance. (n.d.). *Definitions*.
- ¹⁵ National Digital Inclusion Alliance. (n.d.). *Digital Inclusion Trailblazers*. <u>www.digitalinclusion.org/digital-inclusion-trailblazers</u>
- ¹⁶ Connect 313. (n.d.). Introducing the Connect 313 Fund. www.connect313.org/introducing-the-connect-313-fund
- ¹⁷ Kauma, R. (2021, February 5). *Advancing digital inclusion through racial equity* [Conference presentation]. New York State Education Department Digital Equity Summit, virtual. www.nysed.gov/video/rebecca-kauma-keynote-presentation-ny-digital-equity-summit
- ¹⁸ W.K. Kellogg Foundation. (n.d.). *Racial equity resource guide: Glossary*. www.racialequityresourceguide.org/about/glossary
- ¹⁹ Rhinesmith, C., & Kennedy, S. (2020, November 18). *The impacts of covid-19 on digital equity ecosystems*. Benton Institute for Broadband & Society. www.benton.org/blog/impacts-covid-19-digital-equity-ecosystems
 ²⁰ Government Alliance on Race & Equity. (2018, May 18). *GARE communications quide*.
- www.racialequityalliance.org/wp-content/uploads/2018/05/1-052018-GARE-Comms-Guide-v1-1.pdf
- ²¹ Ruha, B. (2019). Race after technology: Abolitionist tools for the new Jim Code. Polity, 21–22.
- ²² Duggan, M., & Brenner, J. (2013, February 4). *The demographics of social media users 2012*. Pew Research Center. www.pewresearch.org/internet/2013/02/14/the-demographics-of-social-media-users-2012
 Smith, A., & Anderson, M. (2018, March 1). *Social media use in 2018 Appendix A: detailed table*. Pew Research Center. www.pewresearch.org/internet/2018/03/01/social-media-use-2018-appendix-a-detailed-table
- ²³ Smith, A., & Anderson, M. (2018, March 1). Social media use in 2018 Appendix A: detailed table.
- ²⁴ Jones, F. (2013, July 17). Is Twitter the underground railroad of activism? *Salon*. www.salon.com/2013/07/17/how twitter fuels black activism



- ²⁵ Hazelton, L. (2021, June 17). *Bridging the digital divide: An equity saga*. Generocity. www.generocity.org/philly/2021/06/17/bridging-the-digital-divide-an-equity-saga
- ²⁶ Island, L. (2020, July 23). *Digital equity in Philadelphia: A path forward*. City of Philadelphia, PA. www.phila.gov/2020-07-23-digital-equity-in-philadelphia-a-path-forward
- ²⁷ Hovis, J., Baller, J., Talbot, D., & Blake, C. (2020, October). *Public infrastructure/Private service: a shared-risk partnership model for 21st century broadband infrastructure*. Benton Institute for Broadband & Society. www.benton.org/sites/default/files/PPP3 final.pdf
- ²⁸ Digital Literacy. (n.d.). American Library Association. www.literacy.ala.org/digital-literacy
- ²⁹ Reddick, C., Harris, R., Enriquez, R., & Sharma, B. *Digital inclusion survey and assessment: A report on digital connectivity capabilities and outcomes in San Antonio and Bexar County*. City of San Antonio Office of Innovation. www.saspeakup.com/Portals/37/Files/Innovation/digital-divide-final.pdf
- ³⁰ Trostle, H. (2018, May 2). *When you can't trust the data: Broadband*. Community Networks. www.muninetworks.org/content/when-you-can%E2%80%99t-trust-data-broadband
- ³¹ Consolidated Appropriations Act, H.R. 133. Public Law No: 116-260 (2021). officeofbudget.od.nih.gov/pdfs/FY21/cy/FY 2021 Appropriations (PL-116-260).pdf
- ³² Wray, S. (2021, February 16). *GPS and garbage trucks: Mapping digital divides in U.S. cities*. MyITU. www.itu.int/en/myitu/News/2021/02/16/08/02/GPS-mapping-digital-divide-Shreveport-United-States City of Shreveport, LA. (n.d.). *Wifi sensor*. GitHub, Inc. github.com/city-of-shreveport/wifi-sensor
- ³³ New York City Mayor's Office of the Chief Technology Officer. (2020). *Internet master plan: A new vision for broadband infrastructure and service in New York City*. NYC CTO. www.nyc.gov/internetmasterplan
- ³⁴ Consumer Reports. (n.d.) Let's broadband together. <u>www.consumerreports.org/upload/broadband</u>
- ³⁵ City of Boston, MA. (n.d.) *Boston shadow and vacant properties*.

www.arcgis.com/apps/webappviewer/index.html?id=45262ec4c1d14759958d5b24a3ec2401

- ³⁶ Mitchum, R. (2021, January 22). UChicago computer science team receives \$1.2m to map the digital divide in Chicago. *University of Chicago News*. news.uchicago.edu/story/uchicago-computer-science-team-receives-12m-map-digital-divide-chicago
- ³⁷ National Telecommunications and Information Administration. *State broadband programs*. BroadbandUSA. <u>broadbandusa.ntia.doc.gov</u>
- ³⁸ Hovis, J., Baller, J., Talbot, D., & Blake, C. (2020, October). *Public infrastructure/Private service*.
- ³⁹ Hovis, J., Baller, J., Talbot, D., & Blake, C. (2020, October). *Public infrastructure/Private service*.
- ⁴⁰ Kienbaum, K. (2019, March 11). *Citywide Fiber Network Nears Completion in Lincoln, Nebraska, Due to Municipal Conduit*. Community Networks. <u>www.muninetworks.org/content/citywide-fiber-network-nears-completion-lincoln-nebraska-due-municipal-conduit</u>
- ⁴¹ Gonzalez, L. (2016, February 23). *Nebraska Network Begins to Grow In Lincoln Conduit*. Community Networks. www.muninetworks.org/content/nebraska-network-begins-grow-lincoln-conduit
- ⁴² Hovis, J., Baller, J., Talbot, D., & Blake, C. (2020, October). *Public infrastructure/Private service*.
- ⁴³ Kienbaum, K. (2019, March 11). Citywide Fiber Network Nears Completion in Lincoln.
- ⁴⁴ City of West Des Moines, IA. *The Vision: West Des Moines is the Most Vibrant Suburban City in North America*. WDM 2036. www.wdm.iowa.gov/home/showdocument?id=17122
- ⁴⁵ City of West Des Moines, IA. Wired WDM Timeline. <u>www.wiredwdm.org/#timeline</u>
- ⁴⁶ Fleig, S. (2020, July 2). West Des Moines set to become lowa's first Google Fiber city. *Des Moines Register*. <u>ampdesmoinesregister-com.cdn.ampproject.org/c/s/amp.desmoinesregister.com/amp/3279256001</u>
- ⁴⁷ Hovis, J., Baller, J., Talbot, D., & Blake, C. (2020, October). *Public infrastructure/Private service*.
- ⁴⁸ Gonzalez, L. (2013, March 21). *Open access network in Mount Vernon, Washington created more jobs and government savings*. Community Networks. <u>www.muninetworks.org/content/open-access-network-mount-vernon-washington-created-more-jobs-and-government-savings</u>
- ⁴⁹ Community Networks. (n.d.). Community network map. www.muninetworks.org/communitymap
- ⁵⁰ Inside Towers. (2017, June 26). *Westminster 'future proofs' itself with dark fiber network.* www.insidetowers.com/westminster-future-proofs-dark-fiber-network



- ⁵¹ Hayes, W. (2015, October 26). Westminster, Md., partners with private sector to broaden fiber-optic network. *Government Technology*. <u>www.govtech.com/dc/articles/Westminster-Md-Partners-with-Private-Sector-to-Broaden-Fiber-Optic-Network.html</u>
- ⁵² Hovis, J., Baller, J., Talbot, D., & Blake, C. (2020, October). *Public infrastructure/Private service*.
- ⁵³ Griffith, K. (2020, October 22). Westminster to extend fiber internet beyond city limits. *Carroll County Times*. www.baltimoresun.com/maryland/carroll/news/cc-westminster-fiber-optic-network-20201022-f503eoepvrcetn2hfk3uvr4rse-story.html
- ⁵⁴ Ting Westminster. (n.d.). Ting internet. www.ting.com/internet/town/westminster
- ⁵⁵ Zager, M. (2017, October). Huntsville becomes a gig city. *Broadband Communities Magazine*. www.bbcmag.com/community-broadband/huntsville-becomes-a-gig-city
- ⁵⁶ Zager, M. (2017, October). Huntsville becomes a gig city.
- ⁵⁷ Zager, M. (2017, October). Huntsville becomes a gig city.
- ⁵⁸ Hovis, J., Baller, J., Talbot, D., & Blake, C. (2020, October). *Public infrastructure/Private service*.
- ⁵⁹ Ballard, K. (2018, November 5). Midway through the mission: Making Huntsville a gig city. *Huntsville Business Journal*. www.huntsvillebusinessjournal.com/news/2018/11/05/midway-through-the-mission-making-huntsville-agig-city
- ⁶⁰ Staff Report. (2020, December 7). Google Fiber brings 2 gig internet service to Huntsville. *Huntsville Business Journal*. www.huntsvillebusinessjournal.com/lead/2020/12/07/google-fiber-brings-2-gig-internet-service-to-huntsville
- ⁶¹ DC BLOX Marketing. (2020, September 3). *DC BLOX empowers Huntsville, AL, with newly available, high-speed metro fiber network*. www.dcblox.com/dc-blox-empowers-huntsville-al-high-speed-metro-fiber-network
 ⁶² Koma, A. (2019, February 7). *Arlington spent \$4.1 million on a 10-mile dark fiber network, but no one's using it.*ARL NOW. www.arlnow.com/2019/02/07/exclusive-arlington-spent-4-1-million-on-a-10-mile-dark-fiber-network-now-no-ones-using-it
- ⁶³ Koma, A. (2019, February 7). Arlington spent \$4.1 million on a 10-mile dark fiber network, but no one's using it. ⁶⁴ Koma, A. (2019, February 27). County now hopes to use troubled fiber optic network for new 'digital equity initiative'. ARL NOW. www.arlnow.com/2019/02/27/county-now-hopes-to-use-troubled-fiber-optic-network-for-new-digital-equity-initiative
- ⁶⁵ Airey. (2019, November 13). *Could Amazon and JBG smith light the way for the future of Arlington's dark fiber network?* ARL NOW. www.arlnow.com/2019/11/13/could-amazon-and-jbg-smith-light-the-way-for-the-future-of-arlingtons-dark-fiber-network
- ⁶⁶ Hovis, J., Baller, J., Talbot, D., & Blake, C. (2020, October). *Public infrastructure/Private service*.
- ⁶⁷ Hovis, J., Baller, J., Talbot, D., & Blake, C. (2020, October). *Public infrastructure/Private service*.
- ⁶⁸ Timmerman, R., McKinley, K. (2020, January 10). *Five questions for UTOPIA Fiber.* Utopia Fiber. www.utopiafiber.com/2020/01/10/five-questions-for-utopia-fiber

Knight, B. (2021, February 22). UTOPIA Fiber announces completion of \$52.5 million funding round. *Business Wire*. www.businesswire.com/news/home/20210222005956/en

- ⁶⁹ Timmerman, R., & McKinley, K. (2020, January 10). Five questions for UTOPIA Fiber.
- ⁷⁰ Timmerman, R., & McKinley, K. (2020, January 10). Five questions for UTOPIA Fiber.
- ⁷¹ Knight, B. (2021, February 22). UTOPIA Fiber announces completion of \$52.5 million funding round.
- ⁷² Knight, B. (2021, February 22). UTOPIA Fiber announces completion of \$52.5 million funding round.
- ⁷³ Clark, D. (2019, December). UTOPIA Fiber: A model open-access network. *Broadband Communities Magazine*. www.bbcmag.com/community-broadband/utopia-fiber-a-model-open-access-network
- ⁷⁴ Clark, D. (2019, December). UTOPIA Fiber: A model open-access network.
- ⁷⁵ Semerad, T., & Horiuchi, V. (2012, December 3). UTOPIA: Fiber-optic nirvana or a nightmare with no way out? *The Salt Lake City Tribune*. archive.sltrib.com/article.php?id=55284692&itype=CMSID
- ⁷⁶ Woodruff, J. (2019, October 21). The city with the best fiber-optic network in America might surprise you. *Fast Company*. www.fastcompany.com/90416863/the-city-with-the-best-fiber-optic-network-in-america-might-surprise-you



- ⁷⁷ Chao, B., & Pietrzak, L. (2020, January 22). *The cost of connectivity in Ammon, Idaho*. New America. www.newamerica.org/oti/reports/cost-connectivity-ammon-idaho
- ⁷⁸ Strategic Network Group. (2017, May 3). *Broadband benefits assessment of the Ammon fiber network*. www.sngroup.com/wp-content/uploads/2017/05/SNG-Broadband-Benefits-Assessment-of-Ammon-Fiber-Network-03May2017-1.pdf
- ⁷⁹ Chao, B., & Pietrzak, L. (2020, January 22). The cost of connectivity in Ammon, Idaho.
- ⁸⁰ City of Ammon, IA. (n.d.). Fiber Optics FAQs. www.ammonfiber.com/faq.html
- 81 Community Networks. (n.d.). Community Network Map.
- ⁸² Next Century Cities. (2019, September). *The opportunity of municipal broadband*. www.ilsr.org/wpcontent/uploads/2019/09/2019-09-fact-sheet-NCC-opportunity-municipal-broadband.pdf
- ⁸³ Loveland Water and Power. (2018, October 18). *Broadband utility business plan*.

 www.muninetworks.org/sites/www.muninetworks.org/files/Loveland Broadband Utility Business Plan.pdf
 Next Century Cities. (2019, September). *The opportunity of municipal broadband*.
- ⁸⁴ DePriest, H. (2016, December 2). *Transcript: Community Broadband Bits Episode 230*. Community Networks. www.muninetworks.org/content/transcript-community-broadband-bits-episode-230.
- 85 EPB. (n.d.). A long-standing history of serving Chattanooga. www.epb.com/about-epb/our-history
- ⁸⁶ EPB. (n.d.). The world's fastest internet ready for the Device Age. www.epb.com/home-store/internet
- ⁸⁷ Alas, H. (2020, December 21). How Chattanooga connected low-income students to free Wi-Fi. *US News*. www.usnews.com/news/cities/articles/2020-12-21/how-chattanooga-gave-low-income-students-access-to-free-wi-fi
- 88 Martin, D. (2017, August 2) The real story behind Chattanooga's 'gig city' resurgence. *Washington Examiner*. www.washingtonexaminer.com/weekly-standard/the-real-story-behind-chattanoogas-gig-city-resurgence
- ⁸⁹ Koebler, J. (2016, October 27). The City that was saved by the internet. *Vice*.

www.vice.com/en/article/ezpk77/chattanooga-gigabit-fiber-network

- ⁹⁰ Lobo, B. (2020, August 31). Ten years of fiber optic and smart grid infrastructure in Hamilton County, Tennessee. *EPB*. assets.epb.com/media/Lobo%20-
- %20Ten%20Years%20of%20Fiber%20Infrastructure%20in%20Hamilton%20County%20TN Published.pdf
- ⁹¹ Marcattilio-McCracken, R. (2020, July 30). *Chattanooga uses municipal broadband to connect students in historic announcement*. Community Networks. www.muninetworks.org/content/chattanooga-uses-municipal-broadband-connect-students-historic-announcement
- ⁹² Marcus, M. (2017, November 20). *Wilson, North Carolina's fiber network headlines economic development plan*. Community Networks. www.muninetworks.org/content/wilson-north-carolinas-fiber-network-headlines-economic-development-plan
- ⁹³ O'Boyle, T., & Mitchell, C. (2012, December). *California's connected community: Wilson gives Greenlight to fast internet*. Institute for Local Self-Reliance. www.ilsr.org/wp-content/uploads/2012/12/wilson-greenlight.pdf
 ⁹⁴ Malone, K. (2020, June 12). Why Wilson, N.C., became its own internet provider. *NPR*.
 www.npr.org/2020/06/12/875548059/why-wilson-n-c-became-its-own-internet-provider
- ⁹⁵ O'Boyle, T., & Mitchell, C. (2012, December). California's connected community.
- ⁹⁶ Marcattilio-McCracken, R., & Mitchell, C. (2020, December). *Wilson hits a fiber-to-the-home run with Greenlight municipal broadband network.* Institute for Local Self-Reliance. <u>www.ilsr.org/wp-content/uploads/2020/12/Wilson-Case-Study-12-07-2020.pdf</u>
- ⁹⁷ Marcattilio-McCracken, R., & Mitchell, C. (2020, December). *Wilson hits a fiber-to-the-home run with Greenlight municipal broadband network.*
- ⁹⁸ Marcattilio-McCracken, R., & Mitchell, C. (2020, December). *Wilson hits a fiber-to-the-home run with Greenlight municipal broadband network*.
- ⁹⁹ Green Light Community Broadband. (n.d.). *Internet service*. <u>www.greenlightnc.com/services/packages-pricing/internet-broadband</u>
- ¹⁰⁰ Kienbaum, K. (2019, June 14). *Loveland, Colorado, announces Pulse municipal network*. Community Networks. www.muninetworks.org/content/loveland-announces-pulse-new-municipal-network



- BBC Wires. (2016, September 9). Magellan to conduct a broadband feasibility study for Loveland, Colorado. www.bbpmag.com/wordpress2/2016/09/magellan-to-conduct-a-broadband-feasibility-study-for-loveland-co
 Gonzalez, L. (2018, November 14). Loveland community leaders decide to move on fiber project. Community Networks. www.muninetworks.org/content/loveland-community-leaders-decide-move-fiber-project-no-public-vote
- ¹⁰³ Kienbaum, K. (2019, June 14). *Loveland, Colorado, announces Pulse municipal network*.
- ¹⁰⁴ Pulse, City of Loveland. (n.d.). Internet without borders. www.lovelandpulse.com/residential/internet
- ¹⁰⁵ Pulse, City of Loveland. (2019, June 5). *Loveland City Council approves first of several opportunities for regional collaboration*. www.letstalkloveland.org/Pulse/news feed/city-council-approves-first-of-several-opportunities-for-regional-collaboration
- ¹⁰⁶ U.S. Federal Communications Commission. (n.d.). *Types of broadband connections*. <u>www.fcc.gov/general/types-broadband-connections</u>
- 107 Community Networks. (n.d.). Muni-wireless successes. www.muninetworks.org/content/wireless#MuWiSu
 108 Dano, M. (2020, October 14). COVID-19 sparks fixed wireless rollouts. LightReading.
 www.lightreading.com/iot/covid-19-sparks-fixed-wireless-rollouts/d/d-id/764603
- ¹⁰⁹ Staff. (2020, October 7). Wireless internet coming to Whitley County thanks to COVID relief dollars. *Wane News*. www.wane.com/news/local-news/wireless-internet-coming-to-whitley-county-thanks-to-covid-relief-dollars ¹¹⁰ Staff. (2020, October 7). Wireless internet coming to Whitley County.
- ¹¹¹ Mark, S. (2020, September 24). Texas town uses CBRS spectrum to deliver free Wi-Fi to students. *LightReading*. www.lightreading.com/security/texas-town-uses-cbrs-spectrum-to-deliver-free-wi-fi-to-students/d/d-id/764162
- ¹¹² Marcattilio-McCracken, R. (2020, August 18). *San Antonio leverages its fiber infrastructure to extend school networks to 20,000 students in need.* Community Networks. www.muninetworks.org/content/san-antonio-leverages-its-fiber-infrastructure-extend-school-networks-20000-students-need
- ¹¹³ U.S. Department of Education Office of Educational Technology. (n.d.). *Busing in WiFi.* tech.ed.gov/stories/busing-in-wifi
- ¹¹⁴ Elassar, A. (2020, April 14). Austin school district deployed over 100 school buses equipped with WiFi for students without internet access. *CNN*. www.cnn.com/2020/04/14/us/austin-wifi-busses-independent-school-district-trnd/index.html
- ¹¹⁵ Alsharif, M., & Waldrop, T. (2020, August 12). Indiana school district providing dozens of Wi-Fi buses for students without internet. *CNN*. www.cnn.com/2020/08/12/us/south-bend-indiana-schools-wifi-buses/index.html
 ¹¹⁶ Roos, D. (2021, April 27). *How wireless mesh networks work*. How Stuff Works. www.computer.howstuffworks.com/how-wireless-mesh-networks-work.htm
- ¹¹⁷ Fleishman, G. (2020, May 5). *Wireless mesh networks: Everything you need to know*. PC World. <u>www.pcworld.com/article/3212444/mesh-network-explained.html</u>
- ¹¹⁸ Roos, D. (2021, April 27). How wireless mesh networks work.
- ¹¹⁹ Fleishman, G. (2020, May 5). Wireless mesh networks.
- ¹²⁰ Filippi, P. (2014, January 2). It's time to take mesh networks seriously (and not just for the reasons you think). Wired. www.wired.com/2014/01/its-time-to-take-mesh-networks-seriously-and-not-just-for-the-reasons-youthink
- ¹²¹ Marcattilio-McCracken, R. (2020, September 3). *How San Rafael, California Built a Neighborhood Mesh Network That Turned into Something More.* Community Networks. www.muninetworks.org/content/how-san-rafael-california-built-neighborhood-mesh-network-turned-something-more
- ¹²² Marcattilio-McCracken, R. (2020, September 3). *How San Rafael, California Built a Neighborhood Mesh Network*.
- ¹²³ Alliance for Innovation. (2014, January 6). *Ponca City community infrastructure and disaster recovery.* www.transformgov.org/articles/ponca-city-community-infrastructure-and-disaster-recovery
- ¹²⁴ Mulholland, J. (2014, March 26). *Does Ponca City have the fastest free wi-fi in the nation?* Government Technology. www.govtech.com/network/does-ponca-city-have-the-fastest-free-wi-fi-in-the-nation.html



- ¹²⁵ Cooper, T. (2021, August 5). *DSL vs cable vs fiber: Comparing internet options*. Broadband Now. www.broadbandnow.com/guides/dsl-vs-cable-vs-fiber
- ¹²⁶ Poon, L. (2020, February 19). There are far more Americans without broadband access than previously thought. *Bloomberg CityLab*. <u>www.bloomberg.com/news/articles/2020-02-19/where-the-u-s-underestimates-the-digital-divide</u>
- ¹²⁷ New America. (2020). *The cost of connectivity 2020, executive summary*. www.newamerica.org/oti/reports/cost-connectivity-2020/executive-summary
- ¹²⁸ New America. (2020) *The cost of connectivity 2020, global findings.* <u>www.newamerica.org/oti/reports/cost-connectivity-2020/global-findings</u>
- ¹²⁹ U.S. Department of Housing and Urban Development. (2019). *ConnectHomeUSA Playbook*. static1.squarespace.com/static/590bfab229687fec92f55513/t/5df26fd4d153a4617e035aad/1576169435094/ConnectHomeUSA+Playbook+2019+1-8 Final.pdf
- ¹³⁰ Goodchild, C., Hill, H., Kalmus, M., Lee, J., & Webb, D. (2021, May 12). *Boosting broadband adoption and remote K–12 education in low-income households*. Boston Consulting Group.
- $\underline{www.bcg.com/publications/2021/accelerating-broadband-adoption-for-remote-education-low-income-households}$
- ¹³¹ Laurie, J., & Buckman, S. (2008). WiFi as a backend economic development driver. *Economic Development Journal*, 7(4). www.iedconline.org/clientuploads/Economic%20Development%20Journal/EDJ 08 Fall Laurie.pdf
- ¹³² Columbia Telecommunication Corporation. (2017, February). *A plan for facilitating equitable access to wireless broadband services in Seattle*.
- $\underline{www.seattle.gov/Documents/Departments/Broadband/FacilitatingEquitableAccessToWirelessBroadbandServicesInSeattleCTCReport2017.pdf$
- ¹³³ Atske, S., & Perrin, A. (2021, July 16). *Home broadband adoption, computer ownership vary by race, ethnicity in the U.S.* Pew Research Center. www.pewresearch.org/fact-tank/2021/07/16/home-broadband-adoption-computer-ownership-vary-by-race-ethnicity-in-the-u-s
- ¹³⁴ National Digital Inclusion Alliance. (n.d.) *The digital navigator model*. <u>www.digitalinclusion.org/digital-navigator-model</u>
- ¹³⁵ DigitalUS. (n.d.). Digital navigator resources. www.digitalus.org/digital-navigator-resources
- ¹³⁶ DigitalUS. (n.d.). The digital navigator playbook. www.digitalus.org/digital-navigator-playbook
- ¹³⁷ American Library Association. (n.d.). *Digital literacy*. www.literacy.ala.org/digital-literacy
- ¹³⁸ National Digital Inclusion Alliance. (n.d.) *The digital inclusion startup manual, chapter 4: digital literacy training.* www.startup.digitalinclusion.org/ch4.html
- ¹³⁹ National Digital Inclusion Alliance. (n.d.). *The digital inclusion startup manual, chapter 4: Digital literacy training.* ¹⁴⁰ Johnston, R. (2020, June 16). Seattle distributes \$345,000 to digital literacy organizations. *StateScoop.*
- www.statescoop.com/seattle-distributes-345000-to-digital-literacy-organizations
- ¹⁴¹ City of Boston, MA. (2021, July 20). *Digital equity fund*. <u>www.boston.gov/innovation-and-technology/digital-equity-fund</u>
- ¹⁴² National Digital Inclusion Alliance. (n.d.). *The digital inclusion startup manual, chapter 7: Tech support* www.startup.digitalinclusion.org/ch7.html
- ¹⁴³ U.S. Federal Communications Commission. (n.d.). *E-Rate: Universal Service program for schools and libraries*. www.fcc.gov/consumers/guides/universal-service-program-schools-and-libraries-e-rate
- ¹⁴⁴ U.S. Federal Communications Commission. (n.d.). *Lifeline program for low-income consumers*. www.fcc.gov/general/lifeline-program-low-income-consumers
- ¹⁴⁵ Panettieri, A. (2021, March 5). *FCC establishes rules for new low-income emergency broadband benefit*. National League of Cities. www.nlc.org/article/2021/03/05/fcc-establishes-rules-for-new-low-income-emergency-broadband-benefit
- ¹⁴⁶ U.S. Department of Treasury. (n.d.). *Coronavirus State and Local Fiscal Recovery Funds*. home.treasury.gov/policy-issues/coronavirus/assistance-for-state-local-and-tribal-governments/state-and-local-fiscal-recovery-funds



¹⁴⁷ U.S. Department of Treasury. (n.d.). *Coronavirus State and Local Fiscal Recovery Funds Frequently Asked Questions*. https://doi.org/10.1001/journal.org/