

Going Nowhere Fast? Public Transportation in the US

Aneesh Mazumder^{#1}, Gracie Adams^{#2}, Sydney Rehm^{#3}, Elizabeth Miller^{#4}, Josh Priest^{#5}

*Social Policy Team, Institute for Youth in Policy
1700 Van Ness Ave #1143, San Francisco, CA 94109*

¹aneesh@yipinstitute.com, ²gracie@yipinstitute.com, ³sydney@yipinstitute.com,
⁴elizabeth@yipinstitute.com, ⁵joshua@yipinstitute.com

Keywords— transportation, emissions, infrastructure, inequality, competition

EXECUTIVE SUMMARY

Public transport doesn't grab many headlines, but it is a significant social policy issue. In many places it is underprovided relative to the actual level of demand, which accounts for environmental issues and community needs. Existing public transport often ends up reflecting or reinforcing socio-economic inequalities due to the way it is funded. Privatization is unlikely to be a good solution here, as in this industry markets tend not to yield the desirable outcomes. Governments, both local and federal, could help address the demand for cheap, clean, and high-quality public transport, through a mixture of direct interventions and subsidies or tax incentives.

I. OVERVIEW

A. Current Stances

Public transport in the U.S. is not a simple, single issue topic, rather it [has many factors](#) that make an impact. State and localities give the most funding to public transit, leaving federal funds to make up [only 7.2% of the U.S.'s transit funding](#). This dependence on state and local funds creates inequalities by providing more funds for [higher income areas and predominantly white communities](#). The main issue in the U.S.' lack of public transportation ridership is not funding, but the car-based [suburban sprawl](#) that has developed [since the 1950s](#). In the U.S., the main form of transportation, specifically for commuting, is [a single-occupant automobile](#). Meanwhile, older U.S. cities such as New York City, San Francisco and Chicago have the [highest level of public transit ridership](#), cities that were developed without the car in mind.

The US's problem with public transportation is not new. Public transportation usage in the U.S. declined

rapidly between the [years of 1950 and 1970](#). In 1956, when Congress enacted the Interstate Highway Act, which provided 90% of the cost of high speed autoroutes in the U.S., the [population of cities decreased](#) with the development of the suburbs, and public transit systems did not expand further than urban areas. Before the COVID-19 pandemic, public transportation saw a [6-8% uptick in ridership](#), only to plummet [92% in cities such as New York City](#) during the height of the COVID-19 outbreak and lockdowns.

B. Tried Policy

[The Biden Administration's infrastructure plan](#) attempted to raise numbers of public transit ridership in April 2021. The plan includes spending [\\$85 billion over eight years](#) to expand public transportation systems. An increase in public transportation could [decrease greenhouse-gas emissions](#), as transportation accounts for a third of U.S. emissions. Along with funding for public transit, the Biden Administration [has spent up to \\$174 billion](#) to encourage Americans to switch to electric cars or vehicles to combat climate change. Another attempt to renovate the U.S.'s public transit situation was [the CARES Act](#), a stimulus bill that provided \$25 billion for public transportation relief in March of 2020. While this act provided the funds to [support essential workers and the increased cost of public transportation](#) in the Covid-19 pandemic, it only provided enough money for [smaller transit systems to operate](#) for an extended period of time.

II. POLICY PROBLEM

A. Stakeholders

The population at immediate risk from further reductions in public transport is the subset of the American population that uses public transit to get around. Any change in policy for public transportation

will have a direct impact on their lives, as any change in these systems would create different kinds of challenges for the users of the system.

The next stakeholder that is at risk with changes in public transportation policy is the private industry which is trying to slowly move towards taking over public transportation. Any changes in policies for public transportation will have a direct impact on existing private sector firms in this industry and how they plan to expand in the future.

The recent spike in gas prices has also demonstrated another dimension to this problem. Fuel prices will continue to increase over the next few years, while electric cars will start to become more common, and in some places mandatory. However, with high fuel costs and the significant price of electric cars, many Americans will find their private methods of transportation squeezing their budget even more, requiring public transport as a cheap and reliable option to ease the burdens of the increased cost of living.

B. Risks of Indifference

Emissions from private transport and aviation are high, and risk continuing or accelerating current environmental problems. Currently, the carbon emissions of using aviation is around 0.67 tonnes of CO₂ per passenger, according to the calculator from the UN's civil aviation body, the [International Civil Aviation Organization \(ICAO\)](#). To put that in context, that number is equivalent to 11% of the annual emissions of one person in the United Kingdom. Aviation contributes to about 2% of the world's carbon emissions, according to the International Air Transport Association. While many other sectors in the economy are shifting to a greener approach using different sources of renewable energy, the aviation industry will proportionally rise in emissions. The total emissions of the aviation industry far surpasses that of public transportation like buses and trains; the aviation industry produces about 133g per kilometer while buses produce 104g per kilometer, and trains produce 41g per kilometer. The same journey using a train or bus is much cleaner than a ride using a plane. As climate change becomes more and more of a problem, encouraging cleaner forms of public transportation will rise in importance.

There is no easy fix to the emissions issue: replacing air transportation with high-speed rail, for example, will be expensive and, given the sheer size of the US, less time-efficient for individuals. But the technology to make aviation greener is not here yet. Debate should focus on which tools the government should apply to make long-distance high-speed travel more environmentally friendly. It will be easier to encourage the use of high-speed public transport to replace short-distance flights than it will be to replace cross-country flights, so policy discussions should begin there.

IV. POLICY OPTIONS

Increasing privatized public transport, whilst it might initially seem to be a plausible solution, comes with its own problems. Theoretically, this is a good solution because privatization leads to competition, which would bring prices down and quality of services up. However, it can be hard to ensure that the private sector will provide services that align with what is socially desirable in an industry like public transport. As noted above, some areas in which investment in public transport is most desperately needed are among the poorest, and therefore will be among the least profitable. Further, in many of these underprovided areas, the small number of passengers, low ability to pay, high fixed cost of building networks, and potentially high running costs will not allow profitability at competitive prices. This means that fewer and fewer firms will operate in these public transport markets, until what economists call a 'natural monopoly' will emerge. A natural monopoly must charge a price higher than what is considered 'competitive' in order to stay afloat. However, this natural monopoly power means these firms are less responsive to consumer demands, as consumers have no alternative options and must use these firms' services. In the case of public transport, this could mean that private firms prioritize increased profits over higher quality service, since they will not be punished by the market for doing so. This will be to the detriment of consumers, reducing the quality and frequency of their services, and increasing the price.

In this case, ensuring services remain competitive in the absence of competition requires that they are provided by an entity whose preferences align with what the community needs - government, the more local, the better. And, even if natural monopolies don't follow privatization in some areas of the country, in industries like public transport, semi-competitive markets' priorities may not align with what is socially optimal, leading to restricted access or overcharging. Of course, efficiency is desirable, so in the absence of competition, government should be sure to consider value-for-money alongside more altruistic incentives of accessibility for all.

This means that the role for government in improving public transportation is significant. Accordingly, the Biden-Harris Administration has proposed at least two acts to improve public transportation in the United States. Policy surrounding public transportation has focused on garnering funding for critical transportation projects and improving the public transportation already in place. Although receiving some federal funding, most public transportation still relies heavily on money from passengers to maintain facilities. But during the COVID-19 pandemic, public transit numbers [plummeted](#) and services were cut. To combat this, Congress' relief acts [granted almost \\$70 billion](#) for public transportation companies. The 2021 [Infrastructure for Rebuilding America \(INFRA\) Grant Program](#) structured under the Biden-Harris administration awarded over \$900 million to 18 states, with special focus on funding rural areas to improve transportation.

The 2021 [American Jobs Plan](#), another proposal under the Biden-Harris administration, aims to spend [\\$85 billion over eight years](#) on the modernization and construction of public transportation, especially in rural communities. In addition, \$80 billion has also been allocated to improve and expand rail infrastructure and networks. This should go some way toward alleviating some of the issues discussed in this brief, though the problems with centralization and public provision highlighted should remain at the forefront of policymakers' minds.

V. CONCLUSIONS

There is a strong case for increased government provision of public transportation in the US. The

arguments outlined in this brief for it can be summarized in several distinct points.

First, the existing model reinforces socio-economic inequalities by requiring states and districts to fund most of their own services. Centralized, federal funds would go some way towards eliminating these differentials, and help ensure poorer areas don't fall further behind.

Second, costs of private transportation will remain high and may even increase in the short to medium-run. Electric cars are still unaffordable and infeasible options for many, and recent years and events have shown the price of fuel is volatile and increasing. This will further squeeze the budgets of the people already bearing the brunt of rising costs of living. Public transportation should be available as a viable, cheaper alternative.

Third, environmental problems will require a shift away from individual private transport and airlines, into mass public transportation and improved long-distance railways lines with lower emissions per person. The market may shift to internalize these external environmental costs, but it will likely not adjust as quickly as is necessary. However, some interventions are very unlikely to work. For example, short flights could be replaced with high-speed rail, but this is much less likely to be viable for cross country flights.

Finally, private provision is unlikely to be the answer to this demand. Public transportation is a classic example of a natural monopoly, giving enormous potential to firms to prioritize profit over service, at the expense of the consumer. To ensure quality of service is prioritized, public transportation should be public. As always, though, steps should be taken to ensure public provision is demand-sensitive and efficient.

ACKNOWLEDGMENT

The Institute for Youth in Policy wishes to acknowledge Marielle DeVos, Luke Drago, and other contributors for developing and maintaining the Policy Department within the Institute.

REFERENCES

- “About the CARES Act and the Consolidated Appropriations Act | U.S. Department of the Treasury.” *Home.treasury.gov*, home.treasury.gov/policy-issues/coronavirus/about-the-cares-act.
- BBC News. “Climate Change: Should You Fly, Drive or Take the Train?” *BBC News*, 23 Aug. 2019, www.bbc.com/news/science-environment-49349566.
- Bergal, Jenni. “Biden Plan to Boost Public Transit Funding: Visionary or Wasteful?” *Pew.org*, 28 Apr. 2021, www.pewtrusts.org/en/research-and-analysis/blogs/sta

- teline/2021/04/28/biden-plan-to-boost-public-transit-funding-visionary-or-wasteful.
- Brody, Samuel. "The Characteristics, Causes, and Consequences of Sprawling Development Patterns in the United States | Learn Science at Scitable." *Www.nature.com*, 2013, www.nature.com/scitable/knowledge/library/the-characteristics-causes-and-consequences-of-sprawling-103014747/.
- "CARES Act Funding Will Last Half as Long for Large U.S. Transit Regions Compared to Other Areas." *Transitcenter.org*, 23 Apr. 2020, transitcenter.org/cares-act-funding-will-last-half-as-long-for-large-u-s-transit-regions-compared-to-other-areas/. Accessed 12 Mar. 2022.
- Chokshi, Niraj. "Biden's Push for Electric Cars: \$174 Billion, 10 Years and a Bit of Luck." *The New York Times*, 31 Mar. 2021, www.nytimes.com/2021/03/31/business/biden-electric-vehicles-infrastructure.html.
- De La Garza, Alejandro. "COVID-19 Has Been 'Apocalyptic' for Public Transit. Will Congress Offer More Help?" *Time*, July 2021, time.com/5869375/public-transit-coronavirus-covid/.
- Doyle, Thomas. "American Public Transportation Association Urges Lawmakers and Administration to Provide Additional COVID-19 Emergency Response and Recovery Funding." *American Public Transportation Association*, May 2021, www.apta.com/news-publications/press-releases/releases/american-public-transportation-association-urges-lawmakers-and-administration-to-provide-additional-covid-19-emergency-response-and-recovery-funding/. Accessed 12 Mar. 2022.
- English, Jonathan. "Why Did America Give up on Mass Transit? (Don't Blame Cars)." *Bloomberg.com*, 31 Aug. 2018, www.bloomberg.com/news/features/2018-08-31/why-is-american-mass-transit-so-bad-it-s-a-long-story.
- Fischer-Baum, Reuben. "How Your City's Public Transit Stacks Up." *FiveThirtyEight*, FiveThirtyEight, 31 July 2014, fivethirtyeight.com/features/how-your-citys-public-transit-stacks-up/.
- Freemark, Yonah. "Expanding Federal Transit Operations Funding Could Help Achieve Equitable Access to Public Transportation." *Urban Institute*, 26 Aug. 2021, www.urban.org/urban-wire/expanding-federal-transit-operations-funding-could-help-achieve-equitable-access-public-transportation.
- "Infrastructure for Rebuilding America | Build America." *Www.transportation.gov*, www.transportation.gov/buildamerica/financing/infrastructure-rebuilding-america.
- Plumer, Brad, and Nadja Popovich. "America Has Long Favored Cars over Trains and Buses. Can Biden Change That?" *The New York Times*, 2 Apr. 2021, www.nytimes.com/2021/04/02/climate/biden-public-transit-amtrak.html.
- Quiroz-Gutierrez, Marco. "Public Transit Systems Won't Recover for Nearly a Decade." *Fortune*, Nov. 2021, fortune.com/2021/11/02/covid-public-transportation-pandemic-levels/. Accessed 12 Mar. 2022.
- Resnik, David B. "Urban Sprawl, Smart Growth, and Deliberative Democracy." *American Journal of Public Health*, vol. 100, no. 10, Oct. 2010, pp. 1852–1856, www.ncbi.nlm.nih.gov/pmc/articles/PMC2936977/, 10.2105/ajph.2009.182501.
- Stromberg, Joseph. "The Real Reason American Public Transportation Is Such a Disaster." *Vox*, Vox, 10 Aug. 2015, www.vox.com/2015/8/10/9118199/public-transportation-subway-buses.
- . "The Utter Dominance of the Car in American Commuting." *Vox*, 29 Apr. 2015, www.vox.com/2015/4/29/8505097/car-commuting/in/8277740. Accessed 12 Mar. 2022.
- The White House. "FACT SHEET: The American Jobs Plan." *The White House*, 31 Mar. 2021, www.whitehouse.gov/briefing-room/statements-releases/2021/03/31/fact-sheet-the-american-jobs-plan/.