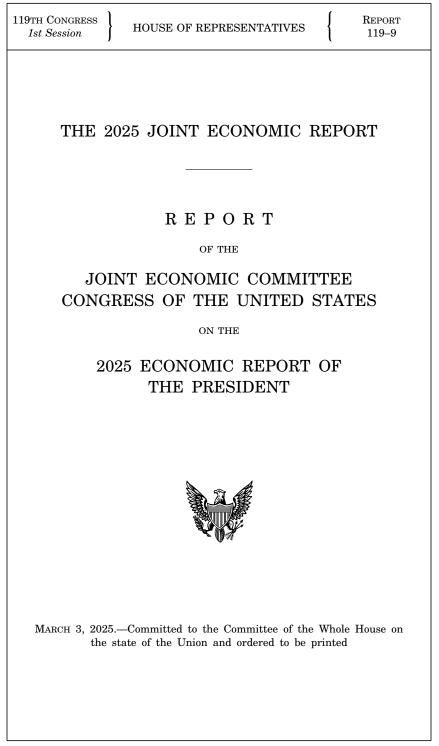
Union Calendar No. 4



THE 2025 JOINT ECONOMIC REPORT

Union Calendar No. 4

119TH CONGRESS Ist Session Analysis HOUSE OF REPRESENTATIVES Report 119–9
THE 2025 JOINT ECONOMIC REPORT
REPORT
OF THE
JOINT ECONOMIC COMMITTEE CONGRESS OF THE UNITED STATES
ON THE
2025 ECONOMIC REPORT OF THE PRESIDENT
MARCH 3, 2025.—Committed to the Committee of the Whole House on the state of the Union and ordered to be printed
U.S. GOVERNMENT PUBLISHING OFFICE 59–396 WASHINGTON : 2025

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LETTER OF TRANSMITTAL

March 3, 2025

HON. MIKE JOHNSON Speaker, U.S. House of Representatives Washington, DC

DEAR MR. SPEAKER:

Pursuant to the requirements of the *Employment Act of 1946*, as amended, I hereby transmit the 2025 Joint Economic Report. The analyses and conclusions of this Report are to assist the several Committees of the Congress and its Members as they deal with economic issues and legislation pertaining thereto.

Sincerely,

David Schweikert Chairman IV

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119TH CONGRESS 1st Session

HOUSE OF REPRESENTATIVES

Report 119–9

THE 2025 JOINT ECONOMIC REPORT

MARCH 3, 2025.—Committed to the Committee of the Whole House on the state of the Union and ordered to be printed

Mr. SCHWEIKERT, from the Joint Economic Committee, submitted the following

REPORT

Report of the Joint Economic Committee on the 2025 Economic Report of the President

CHAIRMAN'S VIEWS

"The Joint Economic Committee has been a major force in shaping American economic policy," wrote Senate Historian Richard Baker in 1952. Indeed, as the country struggled to emerge from the economic challenges of the 1970s, which were marked by growing federal deficits, uneven growth, and inflation, the JEC shaped the economic policy that supported American dominance into the next century. The Committee called for tax simplification in the *1980 Joint Economic Report* and developed novel models to assess the effects of supply-side tax policy. Its work was instrumental in gaining support for the 1986 tax reforms.

Four decades later, the United States is again at a critical juncture for American economic policy. The country must again rein in growing federal deficits driven by social spending and demographics, accelerate growth, and cool inflation. I am honored to have been chosen to be the Committee's Chairman as the country navigates these challenges. The Committee will underscore the destructive nature of increasing debt, propose novel solutions to increase growth and decrease deficits, and explore the role technological innovation and disruption can play in achieving American prosperity. Above all, it will approach its mission with a steadfast commitment to intellectual honesty, for math is neither Democratic nor Republican—it's math.

The United States faces a challenging fiscal picture. In 2024, the U.S. borrowed about 6.4 percent of the size of the economy to finance soaring federal spending—an amount only seen during wars and in the aftermaths of recessions and pandemics. Mandatory programs alone demanded over \$4 trillion last year, about double the amount seen just ten years ago. Importantly, revenues have remained within historic levels. It is demographic-driven spending that is shackling our future generations with debt.

These unsustainable spending habits have had a disastrous cumulative effect. In just the past two decades, we have seen an over five-fold increase in publicly held debt, which now stands at over \$28.8 trillion, and an increase in intragovernmental borrowing to more than \$7.3 trillion. The federal government has now borrowed almost as much as the size of the entire economy, and that figure is only projected to grow in the coming decades. Just servicing that debt cost more in 2024 than did national defense, forcing expenditure of tax dollars with no current or future benefit for the public. The moment demands immediate action to prevent an irreversible fiscal crisis.

The Joint Economic Committee is charged with evaluating recommendations made by the President in the Economic Report

and making recommendations it deems advisable. The 2025 Economic Report of the President (the *Report*) is misguided in its emphasis.

The *Report* reviews the recent rise of remote work and its effects on the economy. It appropriately examines innovation's impact on productivity and labor force participation. However, instead of limiting the analysis of these factors to remote work and relegating them to the periphery, the *Report* should have made them and other determinants of growth its focus. As debt-to-GDP projections continue to climb, increasing growth must be a priority.

The *Report* touts the Global Tax Deal as one way to increase revenue but fails to call it what it is: an investment-killing tax regime that would sidestep national taxing rights and stifle American ingenuity. The best way to stop overseas profit shifting and increase revenue is to make the U.S. the most attractive place in the world to do business.

The *Report's* review of healthcare policy focuses on insurance. Rather than exploring ways to lower healthcare costs through the development of new approaches and technologies, it looks to financing and government control as the answer. Far too often, health policymakers focus on who pays—for an ever-increasing bill—instead of asking, "How do we make healthcare overall cost less?" Even worse, the *Report* neglects the deeply immoral underpinnings of current policy. We have incentivized unhealthy living, and we prioritize government-funded healthcare over prevention in pursuit of a truly healthy society. The fruits of such policies are killing Americans, whose life expectancy has fallen, and our nation's finances. Unfortunately, the *Report's* approaches to energy and the environment are similarly misguided. It ignores the existing supply-side, regulatory barriers that hinder the development of an efficient all-of-the-above energy strategy. We must prioritize market-based solutions while building a tax code that incentivizes research and development.

The *Report* recognizes the profound long-term impact of access to quality K-12 education on our economy. However, it fails to consider that the acute fiscal situation places severe constraints on federal resources available for that education. As federal spending on education continues to decline relative to GDP, we must address the spending on other programs that divert critical resources away from building tomorrow's workforce. Policymakers should also consider how education should change in response to demographics, particularly a shrinking share of school-aged Americans.

Many recent policies have not only failed to alleviate but exacerbated the problems we face. A different approach is needed. Instead of government directing economic activity and increasing spending, we should look to the private sector's innovations for solutions. Instead of policies that protect incumbents, we should adapt to innovations that would improve lives. The Republican section of the 2025 Joint Economic Report (the Response) delivers its findings and recommendations in five chapters.

Chapter 1, "The U.S. Must Address its Growing Spending," illustrates the urgency of confronting the nation's ballooning fiscal shortfall. At the core of the problem are rising costs in programs most directly related to the country's health and demographic landscape. Longer life expectancies mean about 40 percent of the population will live past the age of 90 by the end of the century.

By the second half of the century, there will be only about two workers per Social Security beneficiary. With modest reforms, a modernizing of the regulatory landscape in healthcare, and a datadriven overhaul to root out waste, fraud, and abuse within the government, we can partially offset these demographic headwinds, reduce inefficiency, and do more with fewer taxpayer dollars. While some solutions like closing tax loopholes may unlock more revenue, reducing outlays and improving efficiency remain the clearest paths to fiscal solvency.

Chapter 2, "The Arrogance of Industrial Policy," examines the return of subsidies, tax incentives, and trade barriers to policy discourse. Using such industrial policy to command outcomes in the economy assumes that "government knows best." This arrogance is harmful to the efficient operation of our economy. Such an approach not only distorts the market but also requires massive amounts of spending by the federal government, with some recent legislation carrying a price tag of more than \$1 trillion over ten years. Redistributing dollars from innovative firms to the most politically connected is no way to lead the nation through the 21st century. Instead, we must examine and eliminate the current barriers to production and stop wasteful transfers that create worse outcomes.

Chapter 3, "The Threat of Rising Interest Rate Sensitivity," presents the grave challenges posed by rising interest costs. It reviews the recent history of movements in interest rates, the state of American monetary policy, and the implications for fiscal health. Exorbitant interest costs are the result of a large debt profile, in addition to rising interest rates. Because of the level of our debt, even small increases in interest rates have a significant impact on deficits. Only by correcting course now can we avoid a catastrophic debt spiral.

Chapter 4, "An Update on Obesity Trends," builds on estimates in the 2024 Response that obesity will result in \$8.2 to \$9.1 trillion in excess medical expenditures by 2034. The Chapter provides an update to last year's findings with new data and examines the impact of the rise of anti-obesity medications on trends in obesity. Beyond the benefits of curbing immense federal spending, reducing obesity would improve the health and well-being of Americans.

Chapter 5, "The Economics of Skilled and Unskilled Migration," analyzes the disparate economic impacts of low- and high-skilled immigration. The primary driver of our debt is demographics. A critical shortage of projected workers relative to retirees complicates the long-run math. However, not all additions to the labor force have the same fiscal impact: high-skilled immigrants contribute more. The U.S. should not waste the advantage it holds in attracting the most promising individuals to study at our worldclass institutions and work in our high-productivity industries. While reform is needed to root out waste, fraud, and abuse in our immigration system, retaining and continuing to welcome talent can boost labor productivity, increase growth, and improve our fiscal situation. However, the recent and unprecedented surge of low-skilled, illegal immigration presents a significant challengeestimated to cost the federal government over \$1 trillion over the migrants' lifetimes. To ensure America remains a global leader in an era of fierce international competition for talent, and to address its dire fiscal outlook, immigration policy must prioritize those who will offer the greatest economic benefits.

Central to these five chapters is a critical point: the prosperity of our nation is on borrowed time. Now, as every dollar that Congress votes on is borrowed, we must exercise the intellectual resolve to confront the looming fiscal crisis. Stopping excessive spending is necessary to ensure future generations of Americans are not burdened by our current excess. It is time to implement economic policy that cements American prosperity into the next century and beyond.

CHAPTER 1: THE U.S. MUST ADDRESS ITS GROWING SPENDING

The Republican Responses in the 2023 and 2024 Joint Economic Reports (Responses) have outlined the framework for putting the United States on a sustainable fiscal path based on research from Olivier Blanchard's presidential address to the American Economic Association.¹ In his research, Blanchard outlines a path to debt stabilization based on four macroeconomic variables:²

$$\frac{d}{dt} \left(\frac{Debt_t}{GDP_t} \right) = (i - g - \pi) \frac{Debt_t}{GDP_t} + \frac{p_t}{GDP_t}$$

As this equation implies, if the growth of the economy is larger than its budget deficit, the U.S. can stabilize the debt-to-GDP ratio at current levels. The fiscal situation continues to deteriorate. Policymakers must be pragmatic about growth expectations and address the primary driver of our deficit, which is demographicdriven spending. Alternatively, we can express this equation as:

$$\frac{d}{dt} \left(\frac{Debt_t}{GDP_t} \right) = (\Delta_t - g - \pi) \frac{Debt_t}{GDP_t}$$

Where Δ_t is the rate of growth of the debt. This means that the debt-to-GDP ratio grows at the rate at which the public debt grows minus the rate of nominal GDP growth.³ Figure 1-1 shows high

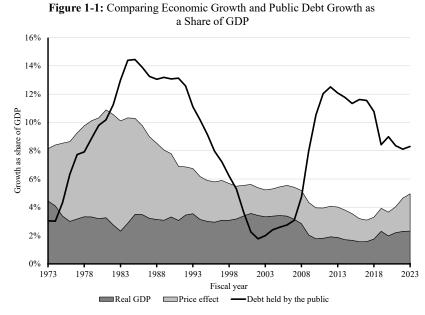
¹ Olivier Blanchard, "Public Debt and Low Interest Rates," *American Economic Review* 109, no. 4 (2019): 1197–1229,

https://doi.org/10.1257/aer.109.4.1197.

² Where *i* is the nominal interest rate, *g* is the real GDP growth rate, π is the change in prices and p_t is the primary deficit. This is derived from the equation on page 1205 of "Public Debt and Low Interest Rates."

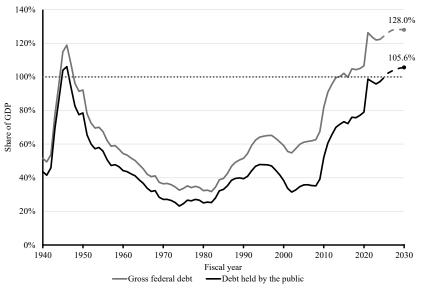
³ Note that this equation requires making some simplifying assumptions. For example, the inclusion of crowding out effects would make g endogenous.

inflation rates, not real GDP growth, have been responsible for slowing the growth of debt relative to GDP.



Source: Office of Management and Budget;⁴ JEC Republicans calculations

⁴ All variables are shown as a 10-year moving average. Office of Management and Budget, "Table 7.1—Federal Debt at the End of Year: 1940–2029," Historical Tables, https://bidenwhitehouse.archives.gov/wpcontent/uploads/2024/03/hist07z1_fy2025.xlsx; Office of Management and Budget, "Table 10.1—Gross Domestic Product and Deflators Used in the Historical Tables: 1940–2029," Historical Tables, https://bidenwhitehouse.archives.gov/wpcontent/uploads/2024/03/hist10z1_fy2025.xlsx.



Source: Office of Management and Budget5

The last time the ratio of debt held by the public to GDP exceeded 100 percent was at the end of World War II, when the U.S. borrowed heavily to finance the war. Eighty years later, the U.S. is expected to pass this same threshold during a time of peace and relative economic stability.⁶

Figure 1-3 shows the leading cause of the increase in the projected deficit is not declining revenues, but a dramatic increase in outlays. While the dollar value of discretionary spending has

Figure 1-2: Federal Debt as a Share of GDP

⁵ Projections start in 2024. Office of Management and Budget, "Table 7.1."

⁶ A large debt-to-GDP ratio slows down the economy through the crowd-out effect and leads to increased inflation expectations. For more on this, see: Joint Economic Committee Republicans, 2023 Joint Economic Report, Republican Response (U.S. Congress Joint Economic Committee, 2023), https://sen.gov/LVQYY; Congressional Budget Office, "How the Expiring Individual Income Tax Provisions in the 2017 Tax Act Affect CBO's Economic Forecast," CBO presentation (December 2024), https://www.cbo.gov/publication/60986.

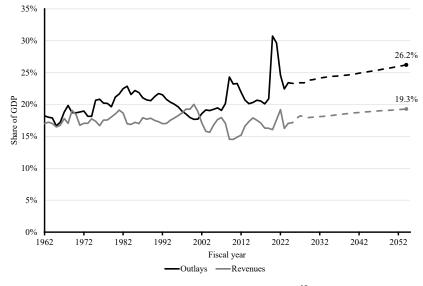
increased over the past decades,⁷ it has steadily declined relative to mandatory spending. Most of the increase in outlays arose from automatic increases to existing entitlement programs, most having an outdated design from an era with much different demographics. America is getting older.⁸ Social Security and Medicare are the most significant contributors to the increase in spending, which rose from 27 percent of all outlays in 1965 to 60 percent in 2024.⁹

 ⁷ Sometimes disguised as emergency spending when there is no real "emergency." Romina Boccia and Dominik Lett, "Curbing Federal Emergency Spending," Cato Institute Policy Analysis no. 966 (January 9, 2024), https://www.cato.org/policy-analysis/curbing-federal-emergency-spendinggovernment-spending-grows-excessive-wasteful.
 ⁸ For more on this, see: Joint Economic Committee Republicans, "Chapter 2:

Demographics and the Deficit," in *The 2024 Joint Economic Committee Republicans, "Chapter 2: Demographics and the Deficit," in <i>The 2024 Joint Economic Report, Republican Response* (U.S. Congress Joint Economic Committee, 2024), https://www.jec.senate.gov/public/vendor/_accounts/JEC-R/jer-chapters/2024JERChapter2.pdf.

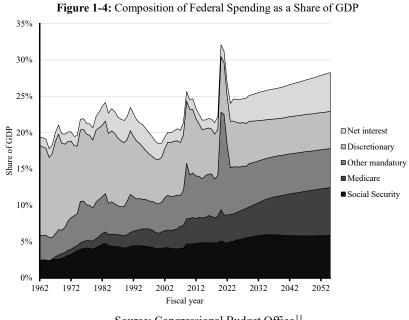
⁹ Outlays are net of offsetting receipts. Congressional Budget Office, "Historical Data and Economic Projections," Budget and Economic Data, January 2025, https://www.cbo.gov/system/files/2025-01/51134-2025-01-Historical-Budget-Data.xlsx; Congressional Budget Office, "10-Year Budget Projections," Budget and Economic Data, January 2025, https://www.cbo.gov/system/files/2025-01/51118-2025-01-Budget-Projections.xlsx.

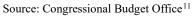
Figure 1-3: Revenues and Outlays as a Share of GDP



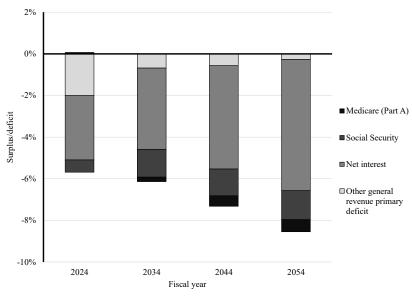
Source: Congressional Budget Office¹⁰

¹⁰ Projections start in 2024. Congressional Budget Office, "Historical Data and Economic Projections," January 2025; Congressional Budget Office, "Long-Term Budget Projections," Budget and Economic Data, January 2025, https://www.cbo.gov/system/files/2025-01/51119-2025-01-LTBObudget.xlsx.





¹¹ Projections begin in FY2025. "Other mandatory" and "Medicare" do not include offsetting receipts. Congressional Budget Office, "Historical Data and Economic Projections," January 2025; Congressional Budget Office, "10-Year Budget Projections," January 2025; Congressional Budget Office, "Long-Term Budget Projections," Budget and Economic Data, January 2025, https://www.cbo.gov/system/files/2025-01/51119-2025-01-LTBObudget.xlsx.





The largest federal program is Social Security, which represents more than one in five dollars spent by the federal government.¹³ It is a pay-as-you-go system; the Social Security taxes of current workers pay for the benefits of current retirees, and future workers will pay for current workers' benefits when they retire.¹⁴ In 1960, there were 5.1 workers per beneficiary. That number has dropped

Source: Congressional Budget Office12

¹² Medicare only includes Part A. All data are projections from March 2024. Congressional Budget Office, "Long-Term Budget Projections," Budget and Economic Data, March 2024, https://www.cbo.gov/system/files/2024-03/51119-2024-03-LTBO-budget.xlsx.

¹³ Fiscal Data, "How much has the U.S. government spent this year?" U.S. Department of the Treasury, accessed February 16, 2025, https://fiscaldata.treasury.gov/americas-finance-guide/federal-spending/.

¹⁴ Payroll tax is not the only source of revenue for the program. A smaller part comes from taxes on benefits and net interest. Social Security Administration, "Table III.A1-Operations of the OASI Trust Fund, Calendar Year 2023," The 2024 OASDI Trustees Report (2024),

to 2.7 and is projected to reach 2.1 in the second half of this century.¹⁵ This change is driven in part by longer life expectancies. The Office of the Chief Actuary at the Social Security Administration (SSA) projects that by the year 2100, more than 70 percent of the population will reach the age of 80 and more than 40 percent will pass the age of 90.¹⁶ Over the past 43 years, the average age of Old Age recipients grew from 63.9 for men and 63.5 for women in 1980 to 65.2 for both genders in 2023.¹⁷ In addition to longer lifespans, declining labor force participation and fertility rates also contribute to Social Security's deteriorating finances.¹⁸

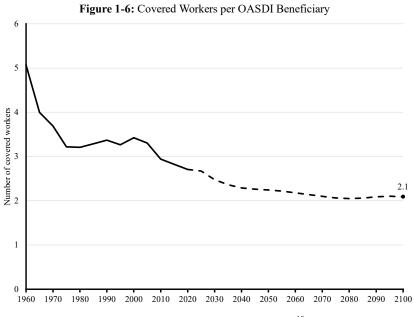
¹⁸ The program's finances deteriorated despite its tax rate increasing. In 1960, Social Security tax rate was 4.5 percent and now it is 12.4 percent. Joint Economic Committee Republicans, "Chapter 2: Demographics and the Deficit;" Social Security Administration, "Table V.A1—Fertility and Mortality Assumptions, Calendar Years 1940–2100," *The 2024 OASDI Trustees Report* (2024), https://www.ssa.gov/oact/tr/2024/V_A_demo.html; Office of the Chief Actuary, "Social Security & Medicare Tax Rates," Office of the Chief Actuary, https://www.ssa.gov/oact/progdata/taxRates.html.

¹⁵ Social Security Administration, "Table IV.B3—Covered Workers and Beneficiaries, Calendar Years 1945-2100," *The 2024 OASDI Trustees Report* (2024), https://www.ssa.gov/oact/tr/2024/IV_B_LRest.html.

¹⁶ Office of the Chief Actuary, "Period Life Tables" (Social Security Administration, 2024),

https://www.ssa.gov/oact/HistEst/PerLifeTables/2024/PerLifeTables2024.ht ml.

¹⁷ Social Security Administration, "Table 6.B5—Number and average age of retiredworker awardees, and percentage distribution by age: By sex and year of award action, selected years 1940–2023," *Annual Statistical Supplement to the Social Security Bulletin, 2024*, SAA Publication no. 13-11700 (December 2024), https://www.ssa.gov/policy/docs/statcomps/supplement/2024/6b.pdf.



Source: Social Security Administration¹⁹

¹⁹ Data is reported in 5-year intervals. Projections begin in 2025. Social Security Administration, "Table IV.B3."

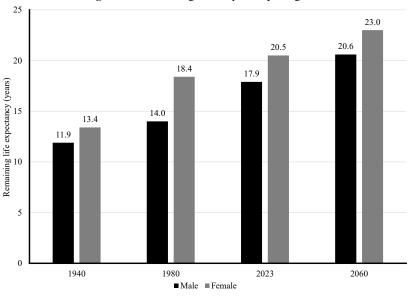


Figure 1-7: Remaining Life Expectancy at Age 65

Government spending on healthcare is positively correlated with age and has also risen significantly, rising from 12 percent of all government expenditures in 1980 to almost 35 percent in 2023.²¹ The rise in healthcare outlays is associated with a general increase in healthcare spending as a share of GDP, rising from

Source: Social Security Administration²⁰

²⁰ Using intermediate projections. Social Security Administration, "Table V.A4— Period Life Expectancy," *The 2024 OASDI Trustees Report* (2024), https://www.ssa.gov/oact/tr/2024/V A demo.html.

²¹ These are gross values, not offsetting for premiums and other receipts. Note that premiums are "hidden" taxes on the elderly and would reach 1.4 percent of GDP by 2054, higher than the projected corporate tax collections. Office of Management and Budget, "Table 15.1—Outlays for Health Programs: 1962– 2029," Historical Tables, https://bidenwhitehouse.archives.gov/wpcontent/uploads/2024/03/hist15z1_fy2025.xlsx; Congressional Budget Office, "Long-Term Budget Projections," Budget and Economic Data, January 2025, https://www.cbo.gov/system/files/2025-01/51119-2025-01-LTBO-budget.xlsx.

approximately 6 percent in 1969 to 18 percent in 2023.²² As almost half of all healthcare expenditures are sponsored by a government program, such as Medicare and Medicaid, and close to one in three Americans is covered by at least one type of government insurance,²³ the federal government has borne much of the increase in healthcare costs.

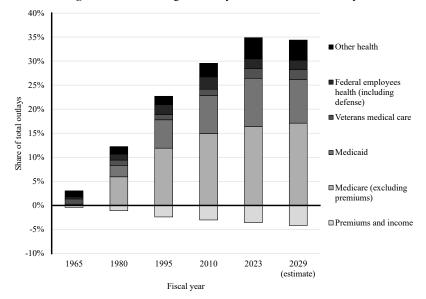


Figure 1-8: Health Program Outlays as a Share of Total Outlays

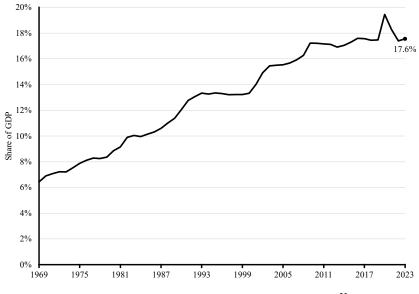
Source: Office of Management and Budget;²⁴ JEC Republicans calculations

²² U.S. Centers for Medicare & Medicaid Services, "Table 01: National Health Expenditures; Aggregate and Per Capita Amounts," National Health Expenditure Tables, https://www.cms.gov/data-research/statistics-trends-andreports/national-health-expenditure-data/historical.

²³ U.S. Centers for Medicare & Medicaid Services, "Table 17: Durable Medical Equipment Expenditures," National Health Expenditure Tables, https://www.cms.gov/data-research/statistics-trends-and-reports/nationalhealth-expenditure-data/historical.

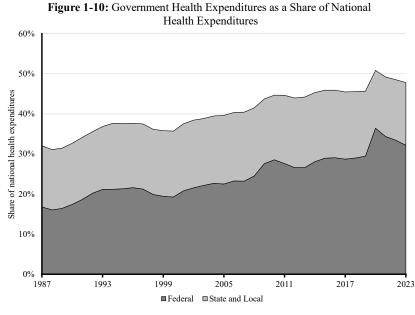
²⁴ Office of Management and Budget, "Table 15.1."





Source: U.S. Centers for Medicare & Medicaid Services²⁵

²⁵ National health expenditures include personal expenditures, government expenditures, and investment. U.S. Centers for Medicare & Medicaid Services, "Table 01."



Source: U.S. Centers for Medicare & Medicaid Services²⁶

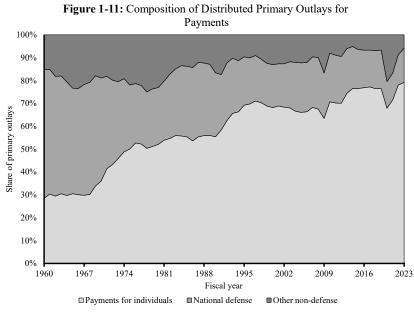
These trends have transformed the federal government from a government primarily focused on national defense—which constituted more than half of on-budget outlays in 1962²⁷—to one whose primary function is making payments to individuals, as shown in Figure 1-11.²⁸ Since 1960, payments to individuals have risen from slightly below 30 percent of primary spending to almost

²⁶ U.S. Centers for Medicare & Medicaid Services, "Table 05: National Health Expenditures by Type of Sponsor," National Health Expenditure Tables, https://www.cms.gov/data-research/statistics-trends-and-reports/nationalhealth-expenditure-data/historical.

²⁷ Office of Management and Budget, "Table 3.2."

²⁸ An increasing proportion of these payments are going toward older people, reaching, on average, nearly \$35,000 per retiree by the time they reach 85. Chris Pope, "The Overextended Retirement State," Manhattan Institute report (August 15, 2024), https://manhattan.institute/article/the-overextended-retirement-state.

80 percent.²⁹ The country finances these payments with borrowing, robbing future generations to pay for current excess.



Source: Office of Management and Budget³⁰

²⁹ Office of Management and Budget, "Table 6.1—Composition of Outlays: 1940– 2029," Historical Tables, https://bidenwhitehouse.archives.gov/wpcontent/uploads/2024/03/hist06z1 fy2025.xlsx.

³⁰ National defense includes a small amount of grants to state and local governments and direct payments to individuals. Office of Management and Budget, "Table 6.1."

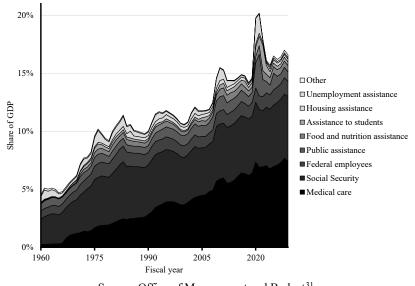


Figure 1-12: Outlays for Payments for Individuals by Category as a Share of GDP

Source: Office of Management and Budget³¹

Options to reduce the deficit

Outlays

Modest reforms to Social Security could provide significant longrun deficit reduction. Social Security was originally designed to protect elderly individuals from poverty.³² However, according to

³¹ Outlays in the legend are sorted smallest-to-largest by their 2024 values. Office of Management and Budget, "Table 11.3—Outlays for Payments for Individuals by Category and Major Program, 1940–2029," Historical Tables, https://bidenwhitehouse.archives.gov/wpcontent/uploads/2024/03/hist11z3 fy2025.xlsx.

³² "We can never insure one hundred percent of the population against one hundred percent of the hazards and vicissitudes of life, but we have tried to frame a law which will give some measure of protection to the average citizen and to his family against the loss of a job and against poverty-ridden old age." Social Security Administration, "Presidential Statement Signing the Social Security Act," August 14, 1935, http://www.ee.gov/history/filmienetate.html

https://www.ssa.gov/history/fdrsignstate.html.

the Internal Revenue Service (IRS), about one in three tax returns filed by individuals reporting taxable Social Security benefits has overall earnings of \$100,000 or more, and almost 2.5 million of those filings report an adjusted gross income above \$200,000.³³ Brian Riedl has proposed canceling the Cost-of-Living Adjustment (COLA) or phasing out benefits for high-income retirees to help stabilize the program's finances.³⁴ Riedl conservatively estimates that canceling upper-income COLAs could save at least \$100 billion over a decade.³⁵ Policymakers should evaluate whether the country should deficit-finance payments to wealthy Americans with future generations paying the bill.³⁶

³⁵ Riedl, "Cut Spending For The Rich Before Raising Their Taxes."

³³ This is in line with survey reports showing that a large portion of seniors report most of their income as coming from sources other than Social Security paychecks. Internal Revenue Service, "Table 1—Individual Income Tax Returns: Selected Income and Tax Items," SOI tax stats - Individual income tax returns (2022), https://www.irs.gov/pub/irs-soi/22in01pl.xls; Mark J. Warshawsky, "Better Measurement of Income of the Elderly and Its Broader Implications," American Enterprise Institute AEIdeas, November 25, 2024, https://www.aei.org/economics/better-measurement-of-income-of-theelderly-and-its-broader-implications/.

³⁴ Attempting to reduce Social Security's deficit by removing the taxable income cap might be counterproductive. Also note that the taxable earnings cap activates at a similar income where the personal income tax jumps from 24 to 32 percent. Since both taxes have a similar base, when also adding the state taxes, some households' marginal tax rate would increase to above 50 percent. U.S. Census Bureau, "2023 ACS 1-Year PUMS," https://data.census.gov/app/mdat/ACSPUMS1Y2023; Brian Riedl, "Cut Spending For The Rich Before Raising Their Taxes," Manhattan Institute report (May 20, 2021), https://manhattan.institute/article/cut-spending-forthe-rich-before-raising-their-taxes; Brian Riedl, "A Comprehensive Federal Budget Plan to Avert a Debt Crisis," Manhattan Institute report (June 27, 2024), https://manhattan.institute/article/a-comprehensive-federal-budgetplan-to-avert-a-debt-crisis-2024.

³⁶ Elderly poverty can be partially explained for reasons foreign to the program. For more on this, see: Andrew G. Biggs, "Social Security and the Poverty Line," American Enterprise Institute AEIdeas, September 26, 2022,

Relatively minor changes to the nation's healthcare entitlement programs, too, could help reduce deficits. The costs of Medicare and Medicaid are influenced by the overall costs of healthcare. A full analysis of cost-reducing reforms to healthcare markets is beyond the scope of this report. However, excessive bureaucracy and administrative overhead consume far too much of every dollar spent.³⁷ A 2017 report calculated that complying with regulations had cost almost \$39 billion per year—an estimated \$1,200 for each patient admitted.³⁸ Figure 1-13, first published by Joint Economic Committee Republicans in the 111th Congress, shows the complexity of the resulting healthcare system after the passage of the *Affordable Care Act*. Regulatory changes that increase competition and incentivize cost-saving medical technologies could reduce public healthcare costs.

³⁸ A poorly designed regulatory framework is a significant reason why the U.S. government spends more per covered individual than any other industrialized nation. Robert E. Moffit, "How to End the Overregulation of Medical Care," The Heritage Foundation commentary, August 4, 2020, https://www.heritage.org/health-care-reform/commentary/how-end-the-overregulation-medical-care; Organisation for Economic Co-operation and Development, "Health Spending Projections to 2030," OECD Health Working Paper no. 110 (May 24, 2019), https://doi.org/10.1787/5667f23d-en.

<sup>https://www.aei.org/economics/social-security-and-the-poverty-line/;
Romina Boccia, "Social Security Pays Excessive Benefits to the Highest-</sup>Income Earners: A UK Comparison," *Cato at Liberty*, February 15, 2024,
https://www.cato.org/blog/social-security-pays-excessive-benefits-highestincome-earners-uk-comparison.

³⁷ James C. Capretta, "National Health Expenditures in 2023 and the Implications for Further Reform," American Enterprise Institute AEIdeas, January 10, 2025, https://www.aei.org/health-care/national-health-expenditures-in-2023-andthe-implications-for-further-reform/.

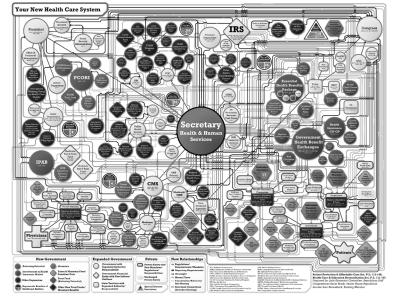


Figure 1-13: The Complexity of the Affordable Care Act

The federal government can also reduce outlays by operating more efficiently. The Government Accountability Office (GAO) has estimated that the federal government loses between \$233 billion and \$521 billion annually due to fraud.³⁹ Improper payments accounted for at least \$160 billion lost in 2024.⁴⁰ Developments in quantitative methods and statistical algorithms could help provide

³⁹ U.S. Government Accountability Office, "Fraud Risk Management: 2018–2022 Data Show Federal Government Loses an Estimated \$233 Billion to \$521 Billion Annually to Fraud, Based on Various Risk Environments," GAO-24-105833 (April 16, 2024), https://www.gao.gov/products/gao-24-105833.

⁴⁰ This number excludes fraud, uncaught errors, and programs that do not track improper payment. Rachel Greszler, "How Congress Can Help DOGE Reduce Improper Payments: Hundreds of Billions of Taxpayer Dollars Wasted on Improper Payments," Economic Policy Innovation Center report (February 3, 2025), https://epicforamerica.org/social-programs/howcongress-can-help-doge-reduce-improper-payments/; U.S. Government Accountability Office, "Improper Payments and Fraud: How They Are Related but Different," GAO-24-106608 (December 7, 2023), https://www.gao.gov/products/gao-24-106608.

significant savings by processing more data and in more depth than can human analysts.⁴¹ Akoglu, Leder-Luis, and Shekhar designed an unsupervised machine-learning algorithm to detect Medicare hospitalization fraud, including red flags for fraudulent overpayments.⁴² The same mechanism can also be used for other areas of Medicare, Medicaid, and other agencies.⁴³

Box 1-1: The Federal Government is in Dire Need of Better Data Management

Waste and fraud in federal programs are partially caused by a deficient data architecture, particularly because the data is siloed across different offices, which is a vulnerability easy to exploit. GAO has repeatedly recommended inter-agency data collaboration to reduce the amount of fraud and improper payments.⁴⁴ Access to IRS and SSA data could have prevented the Small Business Administration from transferring pandemic relief funds to fraudulent recipients. GAO estimates around 3.7 million

⁴² Shubhranshu Shekhar, Jetson Leder-Luis, and Leman Akoglu, "Can Machine Learning Target Health Care Fraud? Evidence from Medicare Hospitalizations" (April 9, 2024), https://sites.bu.edu/jetson/files/2024/09/Anomaly JPAM.pdf.

⁴³ During the pandemic, the unemployment insurance fraud ranged between \$100 billion and \$135 billion; Yanlei Ma, Jessica Phelan, Kathleen Yoojin Jeong, et al., "Medicare Advantage Plans With High Numbers Of Veterans: Enrollment, Utilization, And Potential Wasteful Spending," *Health Affairs* 43, no. 11 (November 2024), https://doi.org/10.1377/hlthaff.2024.00302; U.S. Government Accountability Office, "Unemployment Insurance: Estimated Amount of Fraud During

Pandemic Likely Between \$100 Billion and \$135 Billion," GAO-23-106696 (September 12, 2023), https://www.gao.gov/products/gao-23-106696.

⁴⁴ U.S. Government Accountability Office, "Countering Illicit Finance and Trade: Better Information Sharing and Collaboration Needed to Combat Trade-Based Money Laundering," GAO-22-447 (December 13, 2021), https://www.gao.gov/products/gao-22-447.

recipients had shown warning signs.⁴⁵ Moreover, partially due to poor data management, the federal government has disbursed almost \$3 trillion in improper payments since 2003, consisting of overpayments and unknown payments, either by error or fraud.⁴⁶

Furthermore, at the federal level, more than 100 anti-poverty programs across several agencies disburse more than \$1.1 trillion annually.⁴⁷ Measuring the effectiveness of these programs in fighting poverty has been difficult, but it can now be accomplished more easily with modern data and statistical methods. With the appropriate data architecture,⁴⁸ effective welfare programs can be consolidated and streamlined.⁴⁹ Simplification will result not only in efficiency, reduced administrative costs, and better fraud detection, but also reduced complexity for beneficiaries.⁵⁰

⁴⁵ U.S. Government Accountability Office, "COVID Relief: Fraud Schemes and Indicators in SBA Pandemic Programs," GAO-23-105331 (May 18, 2023), https://www.gao.gov/products/gao-23-105331.

⁴⁶ U.S. Government Accountability Office, "Improper Payments: Information on Agencies' Fiscal Year 2023 Estimates," GAO-24-106927 (March 26, 2024), https://www.gao.gov/products/gao-24-106927.

⁴⁷ Michael D. Tanner, "Poverty and Welfare," *Cato Handbook for Policy Makers* 9, no. 77 (2022), https://www.cato.org/sites/cato.org/files/2022-12/cato-handbook-9th-edition-77.pdf.

⁴⁸ Including merging longitudinal data across several agencies.

⁴⁹ About 20 percent of transfers go to households who pay the same amount in taxes. Judge Glock, "Robbing Peter to Pay Peter: Netting Taxes and Transfers to U.S. Households," Manhattan Institute report (January 18, 2024), https://manhattan.institute/article/netting-taxes-and-transfers-to-u-shouseholds.

⁵⁰ Many people are unaware of many of these programs. For example, according to the FCC only 22 percent of eligible families for their Lifeline program were enrolled in September 2024. Universal Service Administrative Company, "Lifeline Participation Rate," September 2024, https://www.usac.org/wp-content/uploads/lifeline/documents/Data/20241119_SEP2024.xlsx; Elias Ilin and Alvaro Sanchez, "Mitigating Benefits Cliffs for Low-Income Families: District of Columbia Career Mobility Action Plan as a Case Study," Federal Reserve Bank of Atlanta Community and Economic Development

Adopting these quantitative and algorithmic developments is not without challenges. One challenge is setting the same data standards across agencies so that information can be shared seamlessly.⁵¹ Another prevalent issue is privacy concerns, as the increase in the number of offices accessing the same personal information increases the risk of leakage. However, data can be analyzed without transferring it to accessible storage.⁵² For example, the algorithm could access and process the data, keeping the output but deleting its cache memory after the process ends.

Modernizing the state's information management to address waste and fraud will not fully resolve the fiscal problem, but it is moral to take steps to reduce the burdens the country will impose on its future generations. In Chapters 4 and 5, we examine how a healthier society and high-skilled immigration provide additional solutions to the fiscal problem.

Receipts

In the 2023 and 2024 Responses, JEC Republicans extensively analyzed the Biden Administration's tax proposals, debunking

Discussion Paper no. 23-1 (September 2023), https://www.atlantafed.org/-/media/documents/community-development/publications/discussion-papers/2023/01-a-case-study-mitigating-benefits-cliffs-in-the-district-of-columbia.pdf.

⁵¹ For instance, consistency in the formatting of data, meaning of variable names, etc. Natalie R. Ortiz, "Federal Data Management: Issues and Challenges in the Use of Data Standards," Congressional Research Service no. R48053 (April 29, 2024), https://crsreports.congress.gov/product/pdf/R/R48053/2.

⁵² There are several ways to preserve privacy, especially when individual information is not important but microdata analysis. The example described in the text is a simple idea. For other techniques, see: P. Ram Mohan Rao, S. Murali Krishna, and A.P. Siva Kumar, "Privacy Preservation Techniques in Big Data Analytics: A Survey," *Journal of Big Data* 5, no. 33 (2018): https://doi.org/10.1186/s40537-018-0141-8.

claims that the American tax system is not progressive enough.⁵³ There are potential changes to tax policy that would improve the U.S.' fiscal trajectory as measured by changes in debt-to-GDP, but several popular proposals should be taken with caution.

Policymakers should evaluate tax expenditures, such as credits, exclusions, and deductions.⁵⁴ There are about 170 tax expenditures,⁵⁵ amounting to 7.6 percent of GDP.⁵⁶ This is equivalent to almost all personal income tax collections. Reducing tax expenditures would not increase marginal rates and would increase economic efficiency by eliminating distortions.⁵⁷ Part of

https://www.govinfo.gov/content/pkg/COMPS-10356/pdf/COMPS-10356.pdf.

⁵³ Joint Economic Committee Republicans, *The 2024 Joint Economic Report, Republican Response* (U.S. Congress Joint Economic Committee, 2024), https://sen.gov/LVQNL; Joint Economic Committee Republicans, 2023 Republican Response.

⁵⁴ Tax expenditures are defined as "revenue losses attributable to provisions of the Federal tax laws which allow a special exclusion, exemption, or deduction from gross income or which provide a special credit, a preferential rate of tax, or a deferral of tax liability." Congressional Budget and Impoundment Control Act of 1974, Public Law 93–344, § 3,

⁵⁵ William McBride, "Cleaning Up the Tax Code Could Raise Trillions for Tax Reform," Tax Foundation blog, February 6, 2025, https://taxfoundation.org/blog/tax-credits-expenditures-spending-offset-taxcuts/; Office of Tax Analysis, "Tax Expenditures," U.S. Department of the Treasury (March 11, 2024), https://home.treasury.gov/system/files/131/Tax-Expenditures-FY2025.pdf.

⁵⁶ Note that, in practice, combining provisions might not equal the sum of their values. Congressional Budget Office, *The Budget and Economic Outlook: 2025 to 2035* (January 2025), https://www.cbo.gov/publication/60870.

⁵⁷ Martin Feldstein, "The 'Tax Expenditure' Solution for Our National Debt," *The Wall Street Journal*, July 20, 2010, https://scholar.harvard.edu/feldstein/publications/tax-expenditure-solution-our-national-debt.

President Reagan's tax cuts included slashing tax expenditures by about 3 percent of GDP.⁵⁸

In addition to tax expenditures, there are also loopholes that can be exploited by complex tax schemes. For example, Cooper et al. were unable to link all income of more than 20,000 "circular" partnerships to non-partnership owners.⁵⁹ These partnerships represented less than 1 percent of all partnerships but issued about 40 percent of all K-1s, and their effective tax rate was half of that for the remaining partnerships. Eliminating such provisions would close some of these loopholes.⁶⁰

⁵⁸ According to Yale's Budget Lab, eliminating the provisions contributing to this gap between statutory and effective rates, particularly for those at the highest end of the income spectrum, could raise \$560 billion in 2026. The Budget Lab, "Who Is Paying Their Fair Share of Taxes? A New Analysis and Interactive Tool" (Yale University, September 30, 2024), https://budgetlab.yale.edu/research/who-paying-their-fair-share-taxes-newanalysis-and-interactive-tool; Feldstein, "The 'Tax Expenditure' Solution for

Our National Debt." ⁵⁹ Michael Cooper, John McClelland, James Pearce, et al., "Business in the United States: Who Owns it and How Much Tax Do They Pay?" NBER Working

Paper no. 21651 (October 2015), https://doi.org/10.3386/w21651.

⁶⁰ Chris Edwards, Romina Boccia, and Tom Schatz, "Cut Corporate Taxes and Corporate Welfare," Cato Institute commentary, February 3, 2017, https://www.cato.org/commentary/cut-corporate-taxes-corporate-welfare.

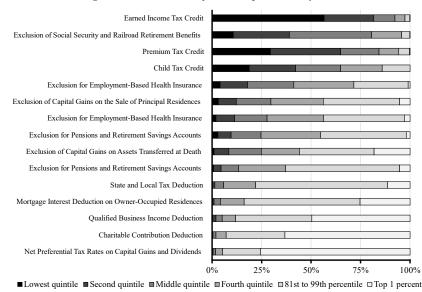


Figure 1-14: Share of Major Tax Expenditures by Income

Eliminating special interest tax credits and loopholes provide one solution to paying for a pro-growth tax code.⁶² While the *2023* and *2024 Responses* analyzed the negative effects of the tax proposals made by the White House, JEC Republicans have not yet examined two proposals that have been part of public tax policy discussions over the past few years. These are the Value-Added Tax (VAT) and the Border Adjustment Tax (BAT).

In a VAT system, each step of the supply chain pays the tax on the added value of the product, but the consumer ultimately pays the

Source: Congressional Budget Office⁶¹

⁶¹ Congressional Budget Office, *The Distribution of Major Tax Expenditures in 2019*, CBO report (October 27, 2021), Table 2, https://www.cbo.gov/publication/57413.

⁶² Adam N. Michel, "Slashing Tax Rates and Cutting Loopholes," Cato Institute Policy Analysis no. 975 (June 17, 2024), https://www.cato.org/policyanalysis/slashing-tax-rates-cutting-loopholes.

full tax.⁶³ The main argument of its proponents is its potential as a source of revenue. It is the largest source of revenue for European countries.⁶⁴ According to CBO, a 5 percent VAT can reduce the deficit by 1.1 percent of GDP.⁶⁵ Yale's Budget Lab estimated that a 10 percent VAT would raise slightly less than 3 percent of GDP. However, they also estimated that it would result in a loss of income of 4 to 6 percent across all quintiles.⁶⁶ The VAT is also a regressive tax that represents a tax increase on all households.⁶⁷ Additionally, there are high administrative costs associated with the tax, requiring record keeping in every stage of the supply chain.⁶⁸ Finally, its effects would be uncertain since it would compound with the existing sales tax.

⁶³ Donald J. Marples, "Consumption Taxes: An Overview," Congressional Research Service no. R44342 (January 24, 2023),

https://crsreports.congress.gov/product/pdf/R/R44342.

⁶⁴ Tax Foundation, "Value-Added Tax (VAT),"

https://taxfoundation.org/taxedu/glossary/value-added-tax-vat/.

 ⁶⁵ Most European countries have rates above 20 percent. Congressional Budget Office,
 "Impose a 5 Percent Value-Added Tax," in *Options for Reducing the Deficit:* 2025 to 2034, CBO report (December 12, 2024),

https://www.cbo.gov/budget-options/60961.

⁶⁶ The Budget Lab, "Modeling the Revenue and Distributional Implications of a Value Added Tax" (Yale University, June 25, 2024), https://budgetlab.yale.edu/research/modeling-revenue-and-distributionalimplications-value-added-tax.

⁶⁷ Thomas Blanchet, Lucas Chancel, and Amory Gethin, "Why Is Europe More Equal than the United States?" *American Economic Journal: Applied Economics* 14, no. 4 (2022): 480–518, p. 504, https://doi.org/10.1257/app.20200703.

⁶⁸ Fraud is not a small issue in several countries using VAT. Also, estimates suggest that administrative and compliance costs could amount to 0.44 percent of GDP. Stephen C. Smith and Michael Keen, "VAT Fraud and Evasion: What Do We Know, and What Can be Done?" IMF Working Paper no. 2007/031 (February 1, 2007),

https://www.imf.org/en/Publications/WP/Issues/2016/12/31/VAT-Fraud-and-Evasion-What-Do-We-Know-and-What-Can-be-Done-20215; Randall G. Holcombe, "The Value Added Tax: Too Costly For The United States,"

Mercatus Center (September 2010),

 $https://www.mercatus.org/sites/default/files/d7/publication/vat.special_study. _holcombe.pdf.$

Since this form of tax would likely be an effective source of revenue, the ease of raising receipts by a large amount from small increases in the tax rate would provide a temptation for policymakers.⁶⁹ In 2009, President Obama proposed cap-and-trade fees on greenhouse gas emissions to reduce the deficit, a tax similar to a VAT. Before even being implemented, the proposed revenue was allocated to new spending programs.⁷⁰ Because of the broad-based income loss and distributional effects, a VAT should be avoided.

Another proposed form of tax that should be approached with caution is the Border Adjustment Tax (BAT), which is a destination-based cash-flow tax, as opposed to the current system, which is origin-based.⁷¹ Under a BAT, all goods and services sold domestically are taxed, while exports and profits overseas are not,⁷² meaning that multinational companies lose the ability to shift their profits abroad.⁷³ This would result in either American corporations repatriating some of their subsidiaries or eliminating

⁶⁹ Daniel J. Mitchell, "No to the Value-Added Tax," Cato Institute commentary, November 13, 2015, https://www.cato.org/commentary/no-value-added-tax.

⁷⁰ Veronique de Rugy, "The Wrong Policy at the Wrong Time," *Reason*, March 4, 2010, https://reason.com/2010/03/04/vat/.

⁷¹ There is no unique way to apply this tax. In 2016, a BAT on corporate income was proposed.

 ⁷² Kyle Pomerleau, "Understanding the House GOP's Border Adjustment," Tax Foundation (February 15, 2017), https://taxfoundation.org/research/all/federal/understanding-house-gopborder-adjustment/.

⁷³ Some believe that because of this, BAT would increase progressivity. For a more thorough description of profit shifting and the possible consequences of its elimination to investment, see the 2023 and 2024 Responses. Kyle Pomerleau, "What is the Distributional Impact of a Destination-Based Cash-Flow Tax?" Tax Foundation blog, January 18, 2017, https://taxfoundation.org/blog/what-distributional-impact-destination-basedcash-flow-tax/.

the practice of transfer-price manipulation.⁷⁴ Since imports are subject to the tax, the BAT offers an alternative approach to tariffs, with some of the same effects.

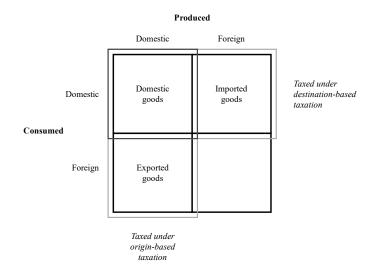


Figure 1-15: Incidence of a Border Adjustment Tax

There are several downsides to the BAT. There is limited empirical evidence on the consequences of a BAT, and there are disagreements on whether it would increase or decrease tax

⁷⁴ For example, a company exports to a foreign subsidiary in a low-tax country for a smaller (transfer) price and imports from that subsidiary at an inflated (transfer) price. Gary Clyde Hufbauer and Zhiyao (Lucy) Lu, "Border Tax Adjustments: Assessing Risks and Rewards," Peterson Institute for International Economics Policy Brief no. PB 17-3 (January 2017), https://www.piie.com/sites/default/files/documents/pb17-3.pdf; Alan J. Auerbach and Douglas Holtz-Eakin, "The Role of Border Adjustments in International Taxation," American Action Forum (November 30, 2016), https://www.americanactionforum.org/research/14344/.

revenue.⁷⁵ Economic theory predicts that the exchange rate should adjust to compensate for the change in relative prices, making this tax trade-neutral. However, a significant number of economists are skeptical that the exchange rate would adjust fully, or at least do so immediately.⁷⁶ The corporate BAT is only trade-neutral under very special circumstances and otherwise would lead to a drop in both exports and imports.⁷⁷ This is because of two reasons. First, exchange rate markets are dominated by vast portfolio flows that outweigh trade flows.⁷⁸ Second, only half of the world's GDP employs floating exchange rates, including the U.S.' 15 percent, which limits the degree of dollar appreciation in real terms.⁷⁹ Sectors with high levels of imports are particularly exposed to imperfect appreciations of the dollar, which will create an

⁷⁵ Grant A. Driessen and Mark P. Keightley, "Border-Adjusted Consumption Taxes and Exchange Rate Movements: Theory and Evidence," Congressional Research Service no. R44821 (April 18, 2017),

https://crsreports.congress.gov/product/pdf/R/R44821.

⁷⁶ Adam N. Michel, "Reviewing the Case Against a Border-Adjusted Corporate Income Tax," Cato at Liberty, October 17, 2024, https://www.cato.org/blog/reviewing-case-against-border-adjusted-corporateincome-tax; Jason J. Fichtner, Veronique de Rugy, and Adam N. Michel, "Border Adjustment Tax: What We Know (Not Much) and What We Don't (All the Rest)," Mercatus Center Policy Brief (February 23, 2017), https://www.mercatus.org/research/policy-briefs/border-adjustment-tax.

⁷⁷ Omar Barbiero, Emmanuel Farhi, Gita Gopinath, and Oleg Itskhoki, "The Macroeconomics of Border Taxes," *NBER Macroeconomics Annual* 33 (2018): 395–457, https://www.jstor.org/stable/26860124.

⁷⁸ Jason Furman, "Destination Basis with Border Adjustment as Tax Policy and as Macroeconomic Policy," Peterson Institute for International Economics commentary (April 2017), https://www.piie.com/commentary/speechespapers/destination-basis-border-adjustment-tax-policy-and-macroeconomicpolicy.

⁷⁹ Michael Cembalest, "A mercifully brief note on destination based taxation," J.P. Morgan Eye on the Market (December 20, 2016), https://privatebank.jpmorgan.com/content/dam/jpm-wmaem/global/pb/en/insights/eye-on-the-market/eotm-dbtcf.pdf.

incentive for rent-seeking. ⁸⁰ Moreover, appreciation of the dollar can have very negative consequences for some individuals. About 85 percent of U.S. foreign liabilities are dollar-denominated, but only 30 percent of U.S. foreign assets are. The net loss would amount to about \$2.5 trillion, or almost \$8,000 per American.⁸¹ The possible negative consequences associated with implementing the BAT are not limited to the ones listed above.⁸²

Nevertheless, focusing on taxes to fix the spending problem is the incorrect approach. It is outlays that have been growing, while receipts have remained fairly stable.⁸³ Moreover, as discussed in the *2024 Response*, there is ample evidence that fiscal consolidation through spending cuts is more effective and will

⁸⁰ Furman, "Destination Basis with Border Adjustment as Tax Policy and as Macroeconomic Policy;" Fichtner, de Rugy, and Michel, "Border Adjustment Tax."

⁸¹ Stan A. Veuger, "Adjusting to the Border Adjustment Tax: Imperfections and Unintended Consequences," Mercatus on Policy (March 2017), https://www.mercatus.org/system/files/veuger-bat-consequences-mop-v1.pdf; Stan Veuger, "How Border Adjustment Reduces the Value of Your Scottish Golf Course," American Enterprise Institute AEIdeas, January 10, 2017, https://www.aei.org/economics/how-border-adjustment-reduces-the-value-ofyour-scottish-golf-course/; Emmanuel Farhi, Gita Gopinath, and Oleg Itskhoki, "Trump's Tax Plan and the Dollar," *Project Syndicate*, January 3, 2017, https://www.project-syndicate.org/commentary/trump-tax-plan-hurtscompetitiveness-by-emmanuel-farhi-et-al-2017-01.

⁸² It could lead to an increase in prices, difficulties in implementing credits to exporters, and non-compliance with WTO, among others. For more on this, see: Institute on Taxation and Economic Policy, "Regressive and Loophole-Ridden: Issues with the House GOP Border Adjustment Tax Proposal," ITEP report (February 22, 2017), https://itep.org/regressive-and-loophole-riddenissues-with-the-house-gop-border-adjustment-tax-proposal/; William G. Gale, "A quick guide to the 'border adjustments' tax," Brookings Institution commentary, February 7, 2017, https://www.brookings.edu/articles/a-quickguide-to-the-border-adjustments-tax/; Pomerleau, "Understanding the House GOP's Border Adjustment;" Hufbauer and Lu, "Border Tax Adjustments."

⁸³ For a short literature review regarding the benefits of spending side fiscal consolidation, see the 2024 Response.

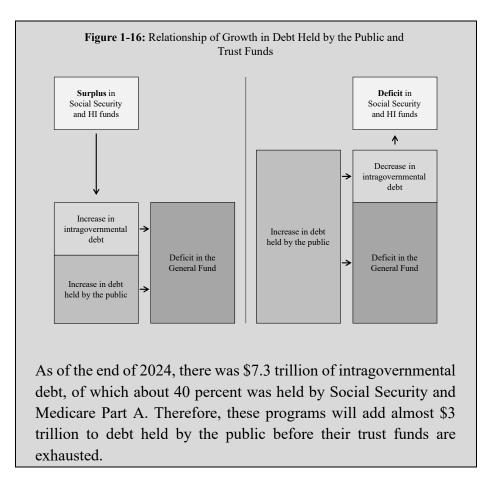
lead to higher long-term growth than through tax increases.⁸⁴ Chapter 2 of the *2025 Response* evaluates the shortcomings of trying to direct the business sector through public spending.

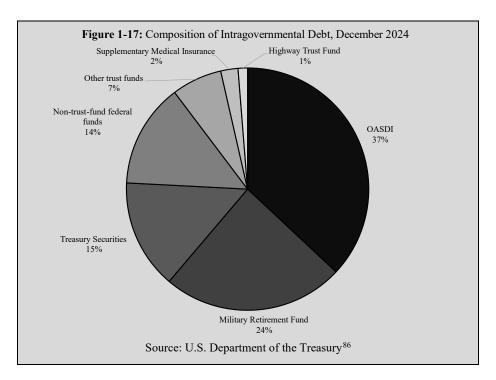
Box 1-2: The Social Security Trust Fund is Commonly Misperceived

Over the past decades, Social Security and Medicare Part A have been accumulating surpluses in their respective trust funds. These trust funds are not stored in a vault or invested in high-yield markets, rather in non-marketable government bonds that were used to finance past deficits for the rest of the federal government.⁸⁵ Therefore, debt held by the public grew at a slower pace than the deficit accumulation over the same period would have predicted. Now, as these mandatory programs are also in a deficit, a reduction of their trust funds, part of intragovernmental debt, results in additional debt held by the public.

⁸⁴ Veronique de Rugy and Jack Salmon, "Flattening the Debt Curve: Empirical Lessons for Fiscal Consolidation," Mercatus Center (July 22, 2020), https://www.mercatus.org/research/research-papers/flattening-debt-curveempirical-lessons-fiscal-consolidation.

⁸⁵ It is important to remember that programs like Social Security are a pay-as-you-go system, closer to a Ponzi scheme than a retirement savings program. Romina Boccia, "Social Security Is a Legal Ponzi Scheme," *Cato at Liberty*, October 23, 2024, https://www.cato.org/blog/truth-about-social-security-legal-ponzi-scheme.





⁸⁶ Bureau of the Fiscal Service, "Table 6. Schedule D—Investments of Federal Government Accounts in Federal Securities, December 2024 and Other Periods," *Monthly Treasury Statement* (U.S. Department of the Treasury, December 2024), https://fiscaldata.treasury.gov/static-data/publishedreports/mts/MonthlyTreasuryStatement_202412.pdf.

CHAPTER 2: THE ARROGANCE OF INDUSTRIAL POLICY

In recent years, subsidy-driven industrial welfare policy has returned. In the policy discourse in Washington, D.C., and in capitals around the world, industrial policy has grown in its prominence.⁸⁷ Industrial policy is the use of government resources through means such as subsidies, tax incentives, tariff and non-tariff trade barriers, and tailored regulations to reshape the economy in an effort to achieve economic, social, or political goals.⁸⁸ The policy shift likely started and was accelerated because of the perceived decline in manufacturing and the subsequent socioeconomic consequences.⁸⁹ Policymakers' concerns over climate change, the resilience and independence of supply chains for essential goods during and following the COVID-19

⁸⁷ Project Syndicate, "Industrial Policy Is Back," Big Picture, September 28, 2023, https://www.project-syndicate.org/onpoint/industrial-policy-is-back.

⁸⁸ Anna Ilyina, Ceyla Pazarbasioglu, and Michele Ruta, "Industrial Policy is Back But the Bar to Get it Right Is High," International Monetary Fund blog, April 12, 2024, https://www.imf.org/en/Blogs/Articles/2024/04/12/industrial-policy-isback-but-the-bar-to-get-it-right-is-high; Gary Clyde Hufbauer and Euijin Jung, "Scoring 50 Years of US Industrial Policy, 1970–2020," Peterson Institute for International Economics Briefing no. 21-5 (November 2021), https://www.piie.com/sites/default/files/documents/piieb21-5.pdf.

⁸⁹ Research suggests that manufacturing employment declined largely because of automation, which increased productivity. The net consequence is continued growth in output with fewer workers. NCCI Insights, "The Impact of Automation on Employment—Part 1," October 10, 2017, https://www.ncci.com/Articles/Pages/II_Insights_QEB_Impact-Automation-Employment-Q2-2017-Part1.aspx; Aurelia Glass and David Madland, "Communities That Lost Manufacturing Jobs Are Main Beneficiaries of Biden Administration's New Industrial Policy," Center for American Progress, March 6, 2024, https://www.americanprogress.org/article/communities-that-lostmanufacturing-jobs-are-main-beneficiaries-of-biden-administrations-new-

industrial-policy/.

pandemic, and national security related to China likely also played a part.⁹⁰

Implementing industrial policy raises several significant problems, though the sentiments that led to its revival are not new. In the 1940s, the war economy led most economists to believe that the government was able to micromanage the economy.⁹¹ As a response, Friedrich Hayek published *The Road to Serfdom* and several other articles stating that central planning would lead to tyranny. He also asserted that central planners—analogous to those enacting industrial policy—could never acquire all the preferences and economic factors faced by the collective mass of individuals with their own unique circumstances. There is a "division of knowledge" in the economy.⁹² Attempting to centrally plan all economic decisions necessarily results in an inefficient and suboptimal allocation of resources, since this knowledge exists as dispersed bits of incomplete and frequently contradictory knowledge which only separate individuals possess.⁹³ Only

⁹⁰ It is worth noting that each party pursues a different goal with their industrial policy plans. Réka Juhász, Nathan J. Lane, and Dani Rodrik, "The New Economics of Industrial Policy," NBER Working Paper no. 31538 (August 2023), https://doi.org/10.3386/w31538; Naveen Siddiqui and Andrew Lautz, "Industrial Policy: Path to U.S. Competitiveness or Pitfall?" Bipartisan Policy Center, October 3, 2023, https://bipartisanpolicy.org/blog/industrial-policy-path-to-u-s-competitiveness-or-pitfall/.

⁹¹ The prevailing economic thought of the 1940s and Hayek's response are very well explained in the introductions by Bruce Caldwell and the author's prefaces in: F.A. Hayek, *The Road to Serfdom: Text and Documents—The Definitive Edition* (London and Chicago, IL: Routledge and The University of Chicago Press, 2007).

⁹² Gerald P. O'Driscoll Jr., "Monetary Policy and the Knowledge Problem," *Cato Journal* 36, no. 2 (Spring/Summer 2016): 337–352, https://www.cato.org/sites/cato.org/files/serials/files/cato-journal/2016/5/cj-v36n2-9.pdf.

⁹³ F. A. Hayek, "The Use of Knowledge in Society," *American Economic Review* 35, no. 4 (1945): 519–30, https://doi.org/10.1142/9789812701275 0025.

individuals know the relative importance of resources and their best use for them.⁹⁴

The foremost problem with industrial policy is that the government fails to have the information necessary to make largescale resource allocation decisions. It almost always fails to anticipate where demand and technological innovation will be in the future, and how the market will react to shocks. This is because the economy is made up of millions of individual decision makers. The mismatch between plans and reality results in lost efficiency for public resources. The private sector in a free-market system, on the other hand, decentralizes information through the price mechanism. Prices respond to changes in supply and demand for a given product. The millions of transactions that occur and the information conveyed by the price signal do not make their way to government decision makers. However, industrial policy is not necessarily always to be avoided. There may be circumstances, such as the lack of a price mechanism, market failures, or strategic concerns regarding specific commodities, that warrant the implementation of industrial policy, or at least its consideration. But outside of specific circumstances, limited intervention in the economy produces better net outcomes. Research suggests that subsidies to high-innovation incumbent firms can reduce innovation.95

In addition to the knowledge problem, there are several more pitfalls to central planning and industrial policy. First, there can be massive fiscal costs to industrial policy, with some recent

⁹⁴ Hayek, "The Use of Knowledge in Society."

⁹⁵ Larry D. Qiu, Xu Wei, Mohan Zhou, and Yi Zhou, "Resource, Competition, and the Equilibrium Effects of Innovation Subsidies," *Journal of Economic Behavior* & Organization 224 (2024): 297–322, https://doi.org/10.1016/j.jebo.2024.05.013.

legislation estimated to cost more than \$1 trillion over ten years,⁹⁶ on top of existing policy that will likely reach nearly \$100 billion per year.⁹⁷ This distortionary spending reduces the availability of private capital for unsubsidized projects.⁹⁸ Second, arbitrary disbursement of funds creates incentives for crony capitalism, with lobbyists pursuing privileges for their clients, and government officials providing the greatest benefits to the most politically connected entities.⁹⁹ Public resources being used to advantage government-favored industries reduces aggregate welfare.¹⁰⁰ Fourth, subsidies can cause foreign countries to reactively subsidize their native industries, creating a subsidy war that can dramatically distort economic outcomes.¹⁰¹ Fifth, intervention in the economy, particularly at a large scale, can result

⁹⁶ Travis Fisher and Joshua Loucks, "The Inflation Reduction Act after Two Years: Spending Estimates Reach New Heights, but Green New Deal Supporters Want More," *Cato at Liberty*, August 16, 2024, https://www.cato.org/blog/inflation-reduction-act-after-two-years-spending-

estimates-reach-new-heights-green-new-deal.

⁹⁷ Hufbauer and Jung, "Scoring 50 Years of US Industrial Policy, 1970–2020."

⁹⁸ New subsidies are paid with additional public debt, partially financed with private capital. For more on the crowding-out effect, see: Congressional Budget Office, "CBO's Policy Growth Model," CBO presentation (April 29, 2021), https://www.cbo.gov/publication/57017.

⁹⁹ Adam Thierer, "Regulatory Capture: What the Experts Have Found," Mercatus Center expert commentary, July 19, 2010, https://www.mercatus.org/economic-insights/expert-commentary/regulatorycapture-what-experts-have-found.

¹⁰⁰ Especially when profits are burdened with high taxes. It is easy to see, from a theoretical perspective, that a system where companies profit more from government transfers than from business operations would lead to less innovation and would be detrimental to consumers.

¹⁰¹ "Mark" Min Seong Kim, "Chip Security: Reconciling Industrial Subsidies with WTO Rules and National Security Exception," *Harvard Law School National Security Journal* (January 12, 2025), https://harvardnsj.org/2025/01/12/chip-security-reconciling-industrialsubsidies-with-wto-rules-and-national-security-exception/; Elizabeth van Heuvelen, "Subsidy Wars," IMF Finance & Development Magazine, June 2023, https://www.imf.org/en/Publications/fandd/issues/2023/06/B2Bsubsidy-wars-elizabeth-van-heuvelen.

in significant distortions to the business cycle and the macroeconomy generally.¹⁰² In addition to other concerns, firms may become reliant on subsidies and thus prioritize seeking subsidies over innovating and competing in private markets, making firms more brittle.¹⁰³

Central planning of the economy always leads to suboptimal outcomes. An economic policy framework that prioritizes industrial policy outside the most precarious national securityrelated circumstances should be averted.

Research shows industrial policy is often both ineffective and inefficient

Industrial policy is less effective than its advocates claim. A report by Hufbauer and Jung of the Peterson Institute for International Economics (PIIE) compiles a review of the literature on the

¹⁰² Michael Plante, "The Long-Run Macroeconomic Impacts of Fuel Subsidies," *Journal of Development Economics* 107 (2014): 129–43, https://doi.org/10.1016/j.jdeveco.2013.11.008; Diana H. Tsai and J.R. Norsworthy, "Measuring the Effects of Macroeconomic Policy in Industry Economic Models: Toward Assessment of Industrial Policy," *Journal of Policy Modeling* 18, no. 3 (1996): 289–333, https://doi.org/10.1016/0161-8938(95)00144-1; Salvador Barrios Cobos, Jonathan Pycroft, Andrzej Leszek Stasio, and Daniel Stoehlker, "The Macroeconomic Impact of the Energy and Climate Provisions of the US Inflation Reduction Act: Evidence for the EU," JRC Working Papers on Taxation and Structural Reforms no. 08/2023 (2023), https://hdl.handle.net/10419/299560; M. Sanchez-Martinez, C. Benedetti-Fasil, P. Christensen, and N. Robledo-Böttcher, *R & D Tax Credits and Their Macroeconomic Impact in the EU: An Assessment Using QUEST III* (Luxembourg: Publications Office of the European Union, 2017), https://doi.org/10.2760/6922.

¹⁰³ Uncertainty must be added to these distortions since, as both parties target different industries, subsidized firms anticipate the possibility of subsidy cuts after elections. Stephen D. Moore, "Welfare for the Well-Off: How Business Subsidies Fleece Taxpayers," Hoover Institution essay, May 1, 1999, https://www.hoover.org/research/welfare-well-how-business-subsidiesfleece-taxpayers.

efficacy of industrial policy approaches.¹⁰⁴ The authors categorize the various types of industrial policies into three main categories and measure three outcomes which are usual goals of such policies. The main results of this study are summarized in Table 2-1. It suggests that most industrial policy initiatives in the U.S., particularly those that are direct subsidy incentives to individual private firms, score relatively poorly.

	Improved competitiveness?	Jobs saved and created at a reasonable cost?	Led to technological advancement?
Trade measures	1.9 / 4.5	2.5 / 4.5	2.8 / 4.5
Targeted subsidies	2.2 / 4.5	2.5 / 4.5	1.8 / 4.5
Public and private R&D	3.6 / 4.5	3.4 / 4.5	4.1 / 4.5

Table 2-1: Effectiveness of Types of Industrial Policy, 1970–2020

Source: Peterson Institute for International Economics¹⁰⁵

Certain industrial policy approaches, such as those used to fund research and development (R&D) for selective high-risk, highreward research projects pertinent to national security through the Defense Advanced Research Projects Agency (DARPA), have provided significant returns for relatively little fiscal cost. Examples include the internet, large-scale data analysis, and weather satellites. Average R&D funding at DARPA is a little more than \$3 billion per year.¹⁰⁶ Operation Warp Speed, which cost around \$20 billion and was established during the COVID-19 pandemic to commit to large purchases and subsidize input components of vaccines, was another example of an R&D

¹⁰⁴ Hufbauer and Jung, "Scoring 50 Years of US Industrial Policy, 1970–2020."

¹⁰⁵ The scores are averages from reviewed literature. Hufbauer and Jung, "Scoring 50 Years of US Industrial Policy, 1970–2020."

¹⁰⁶ Hufbauer and Jung, "Scoring 50 Years of US Industrial Policy, 1970–2020."

industrial policy that had significant benefits for a reasonable fiscal cost.¹⁰⁷

While highly targeted and well-structured industrial policies can be successful, particularly in the national security context, it is unlikely that the vast majority of industrial policy programs pass a cost-benefit test.¹⁰⁸ With noticeably subpar ratings for both subsidies to targeted firms and for trade measures as mechanisms for industrial policy, the authors conclude that these approaches are relatively ineffective at achieving their intended goals. Some particularly egregious examples include the following:

Synthetic Fuels Corporation: During and in response to the energy crisis of the late 1970s, the government-funded Synthetic Fuels Corporation (SFC) was inaugurated to increase shale production. The result was a largely failed venture that provided no real returns, had "saved job" costs of around three-times the prevailing wage at the time, and had numerous conflicts of interest and corruption problems.¹⁰⁹

Solyndra: Solyndra was a solar business established in 2005 that received a half-billion-dollar loan guarantee from the federal government. Solar panel prices dramatically fell around 2010, forcing Solyndra into bankruptcy and leading to a loss of nearly the whole value of the loan guarantee to the federal government.¹¹⁰

¹⁰⁷ Hufbauer and Jung, "Scoring 50 Years of US Industrial Policy, 1970–2020."

¹⁰⁸ As mentioned in chapter one, without a major restructuring of the government's data management and how the cost-benefit analysis is performed, it is difficult to efficiently evaluate government programs.

¹⁰⁹ Chris Edwards, "Energy Subsidies," *Downsizing the Federal Government*, December 15, 2016, https://www.downsizinggovernment.org/energy/energysubsidies; Hufbauer and Jung, "Scoring 50 Years of US Industrial Policy, 1970–2020," pp. 55–56.

¹¹⁰ Hufbauer and Jung, "Scoring 50 Years of US Industrial Policy, 1970-2020."

Crescent Dunes: Crescent Dunes was a solar company that used a new technology and received a federal government loan guarantee of nearly three-quarters of a billion dollars in 2011. The new technology was ineffective, and the company ceased operations in 2014, costing the government nearly half a billion dollars. Given the number of jobs "created," the cost-per-job was nearly 10-times the prevailing wage.¹¹¹

Foxconn Wisconsin: Foxconn, a multinational cell phone maker announced a \$10 billion plant in response to \$3 billion in subsidies and incentives from the state of Wisconsin in 2017. As a result of environmental and cost concerns, as well as local protests, the size of both the investment and the subsidies from the state were scaled down. As of 2021, there were no jobs added from the plant, and there were no technological advancements from the plant to partially justify the cost.¹¹² Research suggests that economic activity in Wisconsin will be suppressed by more than the size of the subsidy.¹¹³

Given the precarious state of the U.S.' fiscal situation as outlined in Chapter 1, and the Republican Responses in the 2023 and 2024 Joint Economic Reports (Responses), policymakers should be prudent in spending.

¹¹¹ Hufbauer and Jung, "Scoring 50 Years of US Industrial Policy, 1970–2020."

¹¹² Hufbauer and Jung, "Scoring 50 Years of US Industrial Policy, 1970–2020."

¹¹³ Matthew D. Mitchell, Michael D. Farren, Jeremy Horpedahl, and Olivia Gonzalez, "The Economics of a Targeted Economic Development Subsidy," Mercatus Center Research Paper (January 7, 2020),

https://www.mercatus.org/research/research-papers/economics-targeted-economic-development-subsidy.

Recent examples of industrial policy illustrate its weaknesses

Recently enacted industrial policies have fiscal and distortionary costs that notably outweigh the perceived benefits. The three chief industrial policy programs signed into law under the previous Administration were the *Infrastructure Investment and Jobs Act* (IIJA), the *CHIPS and Science Act* (*CHIPS Act*), and the *Inflation Reduction Act* (IRA). While some of the programs that arose from these bills may be defensible, they each have substantial components that come with inordinate fiscal costs.

Infrastructure Investment and Jobs Act

Passed into law in November 2021, the IIJA authorized \$1.2 trillion in infrastructure spending, about \$550 billion of which is new spending.¹¹⁴ Accounting for offsets, this legislation was projected by the Congressional Budget Office (CBO) to add about \$400 billion to the deficit over ten years.¹¹⁵ While a share of the new funding is for basic infrastructure that could have positive spill-over effects, the impact of other funding is more questionable. The IIJA authorizes for roads and bridges \$110 billion, airports \$25 billion, and water infrastructure \$55 billion. Meanwhile, it also authorizes broadband funding of \$65 billion, environmental remediation of \$21 billion, and electric vehicle

¹¹⁴ Pipeline and Hazardous Materials Safety Administration, "Bipartisan Infrastructure Law (BIL) / Infrastructure Investment and Jobs Act (IIJA)," U.S. Department of Transportation, February 16, 2023, https://www.phmsa.dot.gov/legislativemandates/bipartisan-infrastructure-law-bil-infrastructure-investment-andjobs-act-iija.

¹¹⁵ Committee for a Responsible Federal Budget, "Infrastructure Plan Will Add \$400 Billion to the Deficit, CBO Finds," August 5, 2021, https://www.crfb.org/blogs/infrastructure-plan-will-add-400-billion-deficitcbo-finds.

(EV) infrastructure of up to \$7.5 billion.¹¹⁶ Moreover, outlays in the IIJA come with several strings that slow program implementation and reduce their benefits.¹¹⁷ While having some reasonable provisions to improve basic infrastructure, the IIJA also has numerous costly provisions that give few observable economic benefits.

CHIPS and Science Act

Enacted in August 2021, the *CHIPS Act* authorizes \$280 billion in funding over ten years to semiconductor manufacturing, around \$80 billion for production tax credits and incentives, and around \$200 billion for scientific R&D subsidies and workforce development programs.¹¹⁸ Arguments in favor of the legislation focused on the importance of a robust domestic semiconductor supply chain given concerns of over-reliance on Taiwanese chips

¹¹⁶ Union Pacific Railroad, "Understanding the Components of the U.S. Bipartisan Infrastructure Law," Track Record, February 14, 2023, https://www.up.com/customers/track-record/tr021423-bil-iija-bipartisaninfrastructure-law-basics.htm; BGR Group, "Infrastructure Investment and Jobs Act – Resiliency and Environmental Remediation," accessed February 18, 2025, https://bgrdc.com/infrastructure-investment-and-jobs-actresiliency-and-environmental-remediation/.

¹¹⁷ U.S. Department of Transportation, Federal Highway Administration, "23 CFR Part 680, National Electric Vehicle Infrastructure Standards and Requirements, FHWA Docket No. FHWA-2022-0008," *Federal Register* 88, no. 39 (February 28, 2023): 12724–57, https://www.govinfo.gov/content/pkg/FR-2023-02-28/pdf/2023-03500.pdf; Owen Minott and Erin Barry, "A Status Update on EV Charging Infrastructure Investments in the IIJA," Bipartisan Policy Center, July 26, 2022, https://bipartisanpolicy.org/blog/a-statusupdate-on-ev-charging-infrastructure-investments-in-the-iija/; Amy Huffman, Angela Siefer, and Josh Mimura, "NTIA Releases the Notice of Funding Opportunities for Three IIJA Programs Today," National Digital Inclusion Alliance, May 13, 2022, https://www.digitalinclusion.org/blog/ntia-releasesrequirements-for-42-5b-of-bead-program-funding/.

¹¹⁸ Justin Badlam, Stephen Clark, Suhrid Gajendragadkar, et al., "The CHIPS and Science Act: Here's what's in it," McKinsey & Company, October 4, 2022, https://www.mckinsey.com/industries/public-sector/our-insights/the-chipsand-science-act-heres-whats-in-it.

and potential territorial aggression from China.¹¹⁹ The national security concerns may have merit, but the act's solutions are inefficient.¹²⁰

Supply-side policy reforms to achieve the relocation of production should have been prioritized over subsidies. For example, the *National Environmental Protection Act* (NEPA) review process can be burdensome, and it often takes several years to complete.¹²¹ This is likely one reason why there have been reports of projects being delayed, citing permitting concerns.¹²² Instead of reducing supply-side barriers, the *CHIPS Act* implemented more, reducing efficacy of the legislation.¹²³ There are requirements to qualify for the funding, including abstention from dividends and stock buybacks, providing childcare access for workers, and an unspecified sharing of excess profits.¹²⁴ Furthermore, there is a requirement for a "skilled and diverse workforce" that adds

¹²⁰ Note that semiconductor industries have high net profits. Aswath Damodaran, "Margins by Sector (US)" Damodaran Online, https://pages.stern.nyu.edu/~adamodar/New_Home_Page/datafile/margin.ht ml.

- ¹²² National Association of Manufacturers, "Many IRA, CHIPS Manufacturing Projects Delayed," August 13, 2024, https://nam.org/many-ira-chips-manufacturingprojects-delayed-31770/?stream=series-input-stories.
- ¹²³ Wall Street Journal editorial board, "The Chips Act Becomes Industrial Social Policy," *The Wall Street Journal*, February 28, 2023, https://www.wsj.com/articles/chips-act-subsidies-progressives-industrialpolicy-gina-raimondo-joe-manchin-7da07403.

¹¹⁹ Michelle Kurilla, "What Is the CHIPS Act?" Council on Foreign Relations, April 29, 2024, https://www.cfr.org/in-brief/what-chips-act.

¹²¹ Phillip Singerman and Alexander Kersten, "Implementing CHIPS: The NEPA Permitting Challenge," Center for Strategic & International Studies, May 1, 2023, https://www.csis.org/analysis/implementing-chips-nepa-permittingchallenge.

¹²⁴ Erica York, "Careful What You Wish For: CHIPS Subsidies Require "Excess Profits" Sharing," Tax Foundation blog, March 2, 2023, https://taxfoundation.org/blog/biden-semiconductor-chips-act-subsidies/.

compliance costs and makes recruiting labor more difficult.¹²⁵ Indeed, there have been reports of worker shortages in the regions where plants are being built. Moreover, the enactment of this legislation set off a subsidy war, with China and the European Union reactively launching subsidies to their microchip industries of nearly \$50 billion and over \$40 billion, respectively.¹²⁶ The microchip fabrication plants being built because of *CHIPS Act* dollars are an example of a current physical investment that could become outdated. If microchip technology advances such that the current processes become obsolete, the investment could go to waste.¹²⁷ This could result in billions of dollars of stranded assets. Instead of providing subsidies to achieve even national security policy aims, supply-side reforms such as streamlining regulatory frameworks should be prioritized.¹²⁸ Funding should prioritize

¹²⁵ Martin Chorzempa, "US chip construction spending skyrocketed after US CHIPS Act passed in August 2022," Peterson Institute for International Economics, August 15, 2024, https://www.piie.com/research/piie-charts/2024/us-chipconstruction-spending-skyrocketed-after-us-chips-act-passed; Stephen Miran, "Brittle Versus Robust Reindustrialization," Manhattan Institute report (February 22, 2024), https://manhattan.institute/article/brittle-versusrobust-reindustrialization.

¹²⁶ Anniek Bao, "China's ambitions for semiconductor self-sufficiency thwarted by lack of chipmaking tools," *CNBC*, September 27, 2024, https://www.cnbc.com/2024/09/27/chinas-ambitions-for-chip-selfsufficiency-thwarted-by-lack-of-tools-.html; European Commission, "European Chips Act," https://commission.europa.eu/strategy-andpolicy/priorities-2019-2024/europe-fit-digital-age/european-chips-act en.

¹²⁷ Vishnu Kannan and Jacob Feldgoise, "After the CHIPS Act: The Limits of Reshoring and Next Steps for U.S. Semiconductor Policy," Carnegie Endowment for International Peace (November 22, 2022), p. 20, https://carnegieendowment.org/research/2022/11/after-the-chips-act-thelimits-of-reshoring-and-next-steps-for-us-semiconductor-policy.

¹²⁸ The previous administration followed the subsidy approach. A better approach would have been to target industries that are highly concentrated because of the patent system making them high-risk-high-reward and to soften the costs of R&D in exchange for a reduction in the patents' term. This would encourage competition and reduce consumer prices downstream. Yifan Yu,

innovations, like in the case of DARPA, not simply capital assets for geographic relocations.

Inflation Reduction Act

The *Inflation Reduction Act* was enacted in August 2022, following passage of the *CHIPS Act* earlier the same month.¹²⁹ This legislation, while initially scored as deficit-reducing over the ten-year budget window by CBO is now anticipated to add over \$1 trillion to the deficit over the same period, with the energy tax credits amounting to well over \$1 trillion in total outlays.¹³⁰ The IRA is split into two main policy areas, energy and healthcare, with some tax increases included to pay for some provisions.¹³¹ The largest share of outlays arise from tax incentives related to energy, with some outlays going to grants and loans.¹³² These

https://www.congress.gov/bill/117th-congress/house-bill/5376/actions.

[&]quot;U.S. needs another CHIPS Act to lead world, says Raimondo," *Nikkei Asia*, February 22, 2024,

https://asia.nikkei.com/Business/Tech/Semiconductors/U.S.-needs-another-CHIPS-Act-to-lead-world-says-Raimondo.

¹²⁹ U.S. Senate, "On Passage of the Bill (H.R. 5376, As Amended)," Roll Call Vote no. 325 (August 7, 2022),

https://www.senate.gov/legislative/LIS/roll_call_votes/vote1172/vote_117_2 _00325.htm; Congress.gov, "H.R.5376—117th Congress (2021–2022): Inflation Reduction Act of 2022," August 16, 2022,

¹³⁰ Congressional Budget Office, "Estimated Budgetary Effects of H.R. 5376, the Inflation Reduction Act of 2022," CBO cost estimate (August 3, 2022), https://www.cbo.gov/publication/58366; Goldman Sachs, "The US is poised for an energy revolution," April 17, 2023, https://www.goldmansachs.com/insights/articles/the-us-is-poised-for-an-

energy-revolution.html; Fisher and Loucks, "The Inflation Reduction Act after Two Years."

¹³¹ William McBride, Alex Muresianu, Erica York, and Michael Hartt, "Inflation Reduction Act One Year After Enactment," Tax Foundation research, August 16, 2023, https://taxfoundation.org/research/all/federal/inflation-reductionact-taxes/.

¹³² Justin Badlam, Jared Cox, Adi Kumar, et al., "The Inflation Reduction Act: Here's what's in it," McKinsey & Company, October 24, 2022,

subsidies were designed to reduce the relative cost of clean energy products, such as EVs, to reshape the U.S. economy to be less dependent on fossil fuels and reduce aggregate carbon emissions.¹³³

Subsidies, tax credits, and other similar policies are rife with waste, fraud, and abuse. The IRA's provisions are no exception. Many of the tax credits are made to be transferable, and findings suggest that transferring the credit in the market results in a discount of 6 to 15 percent from its nominal value.¹³⁴ This means that the government could spend \$100 to create only \$85 worth of incentives. While on a micro scale this may seem insignificant, because the cumulative outlays for green energy credits in the IRA are anticipated to be well over \$1 trillion over ten years, a 15 percent rate of inefficiency could amount to over \$100 billion in waste. Moreover, tax credits often also result in fraud and abuse, with reports of fraudulent tax credits from biodiesel to COVID-19 relief. Within the last year, the Internal Revenue Service (IRS) uncovered an illegal scheme related to the IRA's clean energy tax credit.¹³⁵

¹³⁵ U.S. Treasury Inspector General for Tax Administration, "TIGTA Identifies Fraud Scheme, Alerts IRS to Prevent \$3.5 Billion in Potentially Improper Pandemic Tax Credits," U.S. Department of the Treasury, April 24, 2024, https://www.tigta.gov/articles/press-releases/tigta-identifies-fraud-schemealerts-irs-prevent-35-billion-potentially; Internal Revenue Service, "IRS warns of new scam targeting Clean energy tax credit," IRS news release no. IR-2024-182, July 3, 2024, https://www.irs.gov/newsroom/irs-warns-of-new-

https://www.mckinsey.com/industries/public-sector/our-insights/theinflation-reduction-act-heres-whats-in-it.

¹³³ International Energy Agency, "Inflation Reduction Act of 2022," October 27, 2024, https://www.iea.org/policies/16156-inflation-reduction-act-of-2022.

¹³⁴ Martin Karamon, Timothy Doran, and David Mohimani, "FAQ: Inflation Reduction Act Energy Tax Credit Transfer Explained," Cherry Bekaert insight, January 22, 2025, https://www.cbh.com/insights/articles/irc-section-6418-faqtransferring-energy-tax-credits/.

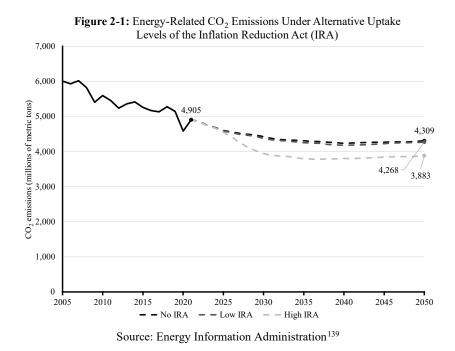
Research on previous green energy tax credit policies also suggests that most of the benefits of the IRA will go to the top quintile of income earners, with the bottom three quintiles likely receiving only around 10 percent of allocated dollars.¹³⁶ A recent study also found that about 75 percent of the EV tax credits claimed as of the time of the report had gone to consumers that would have purchased an EV regardless of the subsidy.¹³⁷ The aim of industrial policy is to change the behavior of economic actors, and the IRA not only fails at this objective but also wastes resources to do so. Even more, the IRA is projected to have little impact on emissions over the next ten years.¹³⁸

¹³⁷ Stanford University Institute for Economic Policy Research, "Study finds EV subsidies in the Inflation Reduction Act help the climate, U.S. automakers but at a questionable cost to taxpayers," October 7, 2024, https://siepr.stanford.edu/news/study-finds-ev-subsidies-inflation-reductionact-help-climate-us-automakers-questionable-cost.

scam-targeting-clean-energy-tax-credit; Adam N. Michel, "A Case Study in Tax Credit Fraud and Manipulation, Biofuel Edition," *Cato at Liberty*, May 2, 2024, https://www.cato.org/blog/case-study-tax-credit-fraud-manipulationbiofuel-edition.

¹³⁶ Severin Borenstein and Lucas W. Davis, "The Distributional Effects of U.S. Tax Credits for Heat Pumps, Solar Panels, and Electric Vehicles," NBER Working Paper no. 32688 (July 2024), https://doi.org/10.3386/w32688.

¹³⁸ Ben Evans, "IRA update: Buildings projected to deliver largest IRA-related emissions reductions," U.S. Green Building Council, October 24, 2023, https://www.usgbc.org/articles/ira-update-buildings-projected-deliver-largestira-related-emissions-reductions.



American Rescue Plan Act

Passed in March 2021 as an additional COVID-19 stimulus package after the *CARES Act* and *Consolidated Appropriations Act, 2021* already ballooned deficits and the national debt, the *American Rescue Plan Act* (ARPA) provided an additional \$1.9 trillion in aid.¹⁴⁰ The new deficit spending consisted of over \$400

¹³⁹ U.S. Energy Information Administration, "U.S. Energy-Related Carbon Dioxide Emissions, 2023" (April 2024), https://www.eia.gov/environment/emissions/carbon/pdf/2023_Emissions_Re port.pdf; U.S. Energy Information Administration, *Annual Energy Outlook*

 ^{2023 (}March 16, 2023), https://www.eia.gov/outlooks/aeo/index.php.
 ¹⁴⁰ Pandemic Oversight, "Update: Three rounds of stimulus checks. See how many went out and for how much," Pandemic Response Accountability Committee, February 17, 2022, https://www.pandemicoversight.gov/data-interactive-tools/data-stories/update-three-rounds-stimulus-checks-see-how-many-went-out-and; National Association of Counties, "American Rescue Plan Act Funding Breakdown," April 12, 2021,

billion in direct cash assistance through stimulus checks, \$200 billion through unemployment benefits, and over \$300 billion in transfers to state and local governments for "fiscal recovery." The rest of the subsidies were allocated to education, childcare, health, transportation, and other programs.¹⁴¹ Several states used the designated funds for purposes that could be classified as industrial policy, such as for broadband implementation.¹⁴²

The fiscal expansion that occurred because of this legislation has had significant impacts on the macroeconomy. Research suggests that the enactment of the ARPA caused an increase in inflation above trend, contributing to about 3 percentage points of year-over-year inflation in late stages of the pandemic.¹⁴³ The rise in

https://www.naco.org/resources/featured/american-rescue-plan-act-fundingbreakdown; Congress.gov, "H.R.1319—117th Congress (2021–2022): American Rescue Plan Act of 2021," March 11, 2021,

https://www.congress.gov/bill/117th-congress/house-bill/1319/all-actions; Marcos Dinerstein and Jon Huntley, "The Long-Run Fiscal and Economic Effects of the CARES Act," Penn Wharton Budget Model, May 5, 2020, https://budgetmodel.wharton.upenn.edu/issues/2020/5/5/long-run-economiceffects-of-cares-act.

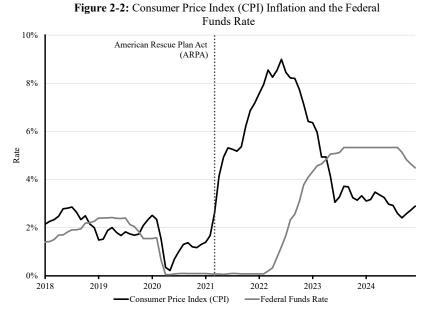
¹⁴¹ National Association of Counties, "American Rescue Plan Act Funding Breakdown."

¹⁴² National Conference of State Legislatures, "ARPA State Fiscal Recovery Fund Allocations Dashboard," updated January 2, 2025,

https://www.ncsl.org/fiscal/arpa-state-fiscal-recovery-fund-allocations.

¹⁴³ As for any tax on consumption, inflation has the same regressive characteristic as such taxes. Dong Gyun Ko, "Did the American Rescue Plan Cause Inflation? A Synthetic Control Approach," *Economic Modelling* 143 (2025), https://doi.org/10.1016/j.econmod.2024.106935; Oscar Jordà, Celeste Liu, Fernanda Nechio, and Fabian Rivera-Reyes, "Why Is U.S. Inflation Higher than in Other Countries?" Federal Reserve Bank of San Francisco Economic Letter 2022-07 (March 28, 2022), https://www.frbsf.org/wpcontent/uploads/el2022-07.pdf; William McBride and Alex Durante, "The 'Inflation Tax' Is Regressive," Tax Foundation blog, September 29, 2022, https://taxfoundation.org/blog/inflation-regressive-effects/.

inflation also precipitated an increase in interest rates by the Federal Reserve.¹⁴⁴



Source: Bureau of Labor Statistics;¹⁴⁵ Board of Governors of the Federal Reserve System¹⁴⁶

Discussed in Chapter 3 of this *Response*, the compounded higher interest rates and larger debt profile have led to a substantial increase in net interest costs for the federal government. Higher

- ¹⁴⁵ U.S. Bureau of Labor Statistics, "Consumer Price Index for All Urban Consumers: All Items in U.S. City Average," https://fred.stlouisfed.org/series/CPIAUCSL.
- ¹⁴⁶ Board of Governors of the Federal Reserve System, "Federal Funds Effective Rate," https://fred.stlouisfed.org/series/FEDFUNDS.

¹⁴⁴ Such a response is typical for central banks. Jane Ihrig and Chris Waller, "The Federal Reserve's responses to the post-Covid period of high inflation," FEDS Notes (Board of Governors of the Federal Reserve System, February 14, 2024), https://doi.org/10.17016/2380-7172.3455; Federal Reserve Bank of Cleveland, "Why Does the Fed Care about Inflation?" https://www.clevelandfed.org/center-for-inflation-research/inflation-101/why-does-the-fed-care-start.

net interest costs crowd out other national spending priorities and contribute to debt growth. Without the ARPA, this expansion in net interest costs may have been notably muted.

Box 2-1: The Effect of a Housing Down Payment Subsidy on Housing Prices

During the 2024 presidential campaign, a \$25,000 down payment support for first-time homeowners was proposed with the aim of closing the wealth gap and increasing supply by shocking demand.¹⁴⁷ However, research suggests that such subsidies are effectively fully capitalized into housing prices.¹⁴⁸ In some cases, the increase in prices was as large as the financial aid from the government, meaning all of the aid is transferred to the sellers.

Forthcoming research by JEC Republicans estimates the effect on prices of this proposal for several metropolitan areas using the literature's standard elasticities of demand and supply for the housing sector and granular microdata on mortgage applications and households' finances.¹⁴⁹

¹⁴⁷ Selina Wang and Gabriella Abdul-Hakim, "Harris to propose up to \$25K in downpayment support for 1st-time homebuyers," *ABC News*, August 15, 2024, https://abcnews.go.com/Politics/harris-propose-25k-payment-support-1sttime-homeowners/story?id=112877568.

¹⁴⁸ Carla Krolage, "The Effect of Real Estate Purchase Subsidies on Property Prices," *International Tax and Public Finance* 30 (2023): 215–46, https://doi.org/10.1007/s10797-022-09726-0; Felipe Carozzi, Christian A.L. Hilber, and Xiaolun Yu, "On the Economic Impacts of Mortgage Credit Expansion Policies: Evidence from Help to Buy," *Journal of Urban Economics* 139 (2024), https://doi.org/10.1016/j.jue.2023.103611.

 ¹⁴⁹ Albert Saiz, "The Geographic Determinants of Housing Supply," *The Quarterly Journal of Economics* 125, no. 3 (August 2010): 1253–96, https://doi.org/10.1162/qjec.2010.125.3.1253; David Albouy, Gabriel Ehrlich, and Yingyi Liu, "Housing Demand, Cost-of-Living Inequality, and the Affordability Crisis," NBER Working Paper no. 22816 (November 2016), https://doi.org/10.3386/w22816.

Preliminary estimations predict that in most markets the property prices will rise by most of the value of the subsidy. In our results, metropolitan areas are classified into deciles of property values. As expected, the percentage increase in property value is higher in the lowest deciles, and the incidence of the subsidy would likely be regressive.

This is a good example of how a well-intended industrial policy would have had a very different outcome, especially since investors and sellers anticipate the shock of subsidized demand and increase prices accordingly. Moreover, the fiscal cost of such ineffective policy on the deficit would also have a negative impact on economic growth.

Alternatives to industrial policy

Reducing costs of doing business and eliminating frictions generally provide more efficient solutions than governmentdirected programs. When distortions are eliminated, capital will flow to industries with higher potential for returns.¹⁵⁰ Instead of subsidies, supply-side barriers should first be reduced where reasonable to allow the market to facilitate capital formation and investment. These supply-side barriers include poorly designed and out-of-date regulations and excessively high business taxation.

Regulation

Regulations, when improperly constructed or no longer serve the intended purpose, can cause unnecessary barriers to economic

¹⁵⁰ Richard A. Williams, "The Impact of Regulation on Investment and the U.S. Economy," Mercatus Center Policy Brief (January 11, 2011), https://www.mercatus.org/research/policy-briefs/impact-regulationinvestment-and-us-economy.

investment.¹⁵¹ An improperly constructed regulatory framework could make investment onerously costly, dispelling activity in a sector of the economy where advocates may push for subsidization due to its relative importance.

One study finds that regulation, by distorting the investment choices that lead to innovation, has had a considerable effect on slowing economic growth over the past several decades. If the number of regulations had been constant at 1980 values, the U.S. economy would have been 25 percent larger by 2012, equivalent to additional yearly growth of 0.8 percent.¹⁵² Another study finds a relation of almost one-to-one between annual regulatory growth and the increase of operating costs per unit of output. The average level of annual regulatory growth at 3.55 percent increases operating costs per unit of output by 3.3 percentage points per year.¹⁵³ A similar work estimates the cost of regulations to be between 1.3 to 3.3 percent of the total wage bill for firms, costing the economy about \$300 billion in 2014.¹⁵⁴ Another recent paper uses a novel machine learning algorithm on regulatory documents and finds that an increase in regulations explains 31 to 37 percent

¹⁵¹ See Chapter 5 of the 2024 Response for a more detailed explanation.

¹⁵² Bentley Coffey, Patrick McLaughlin, and Pietro Peretto, "The Cumulative Cost of Regulations," Mercatus Center Working Paper (April 26, 2016), https://www.mercatus.org/research/working-papers/cumulative-costregulations.

¹⁵³ Tyler Richards and Richard Fullenbaum, "The Impact of Regulatory Growth on Operating Costs," Mercatus Center Working Paper (September 9, 2020), https://www.mercatus.org/research/working-papers/impact-regulatorygrowth-operating-costs.

¹⁵⁴ Francesco Trebbi, Miao Ben Zhang, and Michael Simkovic, "The Cost of Regulatory Compliance in the United States," USC Marshall School of Business Research Paper (January 15, 2023), http://dx.doi.org/10.2139/ssrn.4331146.

of the rise in market concentration.¹⁵⁵ It is important to note that federal, state, and local governments impose regulatory burdens. An onerous regulatory framework reduces innovation and investment, making American companies less competitive. Poorly designed subsidies can also reduce innovation, exacerbating this trend.¹⁵⁶ When evaluating the costs and benefits of industrial policy, pertinent regulatory barriers should first be investigated and amended where necessary before considering subsidization.

Taxation

Taxes are a significant component of most businesses' costs, affecting operating and location decisions, even at the state and local levels.¹⁵⁷ Yet, not all taxes affect firm behavior in the same way. Full expensing for capital investment and R&D are often the most recommended pro-growth tax changes.¹⁵⁸ These provisions

¹⁵⁵ The authors find that while large firms are opposed to regulations in general, they push for the passage of regulations that have an adverse impact on small firms. Moreover, besides the effect on business inequality, other studies find a regressive effect because of a tax increase on consumers. Shikhar Singla, "Regulatory Costs and Market Power," LawFin Working Paper no. 47 (February 23, 2023), http://dx.doi.org/10.2139/ssrn.4368609; Dustin Chambers and Courtney A. Collins, "How Do Federal Regulations Affect Consumer Prices? An Analysis of the Regressive Effects of Regulation," Mercatus Center Working Paper (February 23, 2016), https://www.mercatus.org/research/working-papers/how-do-federal-regulations-affect-consumer-prices-analysis-regressive.

¹⁵⁶ Qiu, Wei, Zhou, and Zhou, "Resource, Competition, and the Equilibrium Effects of Innovation Subsidies."

¹⁵⁷ Shawn Rohlin, Stuart S. Rosenthal, and Amanda Ross, "Tax Avoidance and Business Location in a State Border Model," *Journal of Urban Economics* 83 (2014): 34–49, https://doi.org/10.1016/j.jue.2014.06.003.

¹⁵⁸ Full expensing and R&D expensing were temporary measures of the *Tax Cuts and Jobs Act* but phased out at the end of 2022. According to the Tax Foundation, these provisions would generate the highest GDP growth for each billion dollars of forgone revenue. Erica York, Alex Durante, Huaqun Li, Garrett Watson, and William McBride, "Options for Navigating the 2025 Tax Cuts and Jobs Act Expirations," Tax Foundation research, May 7, 2024,

allow businesses to deduct the full cost of new investments in the year they are made, instead of amortizing the costs over several years.¹⁵⁹ Inflation erodes the value of deductions taken in future years.¹⁶⁰ From an economic theory perspective, expensing investment costs would tax the "normal" returns on that investment with an effective marginal rate of zero. This would make capital investment far less expensive.¹⁶¹ It is more sensible to reduce tax barriers to investment in an even manner and allow companies to compete on a level field than to implement distortive business-related tax subsidies.¹⁶² A simple tax code is a concept

¹⁶¹ These tax changes do not add complexity to the tax code, just to the timing of tax write-offs, which is applicable to all firms. Jason Furman, "How to increase growth while raising revenue: Reforming the corporate tax code," The Hamilton Project (January 28, 2020), https://www.hamiltonproject.org/wp-content/uploads/2023/01/Furman_LO_FINAL.pdf; Office of Tax Policy, "Case for Temporary 100 Percent Expensing: Encouraging Businesses to Expand Now by Lowering the Cost of Investment" (U.S. Department of the Treasury, October 29, 2010), https://www.govinfo.gov/app/details/GOVPUB-T-PURL-gpo160066; Scott Hodge, "Empirical Evidence Shows Expensing Leads to More Investment and Higher Employment," Tax Foundation blog, May 19, 2020, https://taxfoundation.org/blog/expensing-leads-to-more-investment-and-higher-employment/.

https://taxfoundation.org/research/all/federal/2025-tax-reform-options-tax-cuts-and-jobs-act/.

¹⁵⁹ Erica York and Alex Muresianu, "Expensing: It Pays to Be Permanent," Tax Foundation blog, January 28, 2025, https://taxfoundation.org/blog/permanent-bonus-depreciation-expensingoptions/.

¹⁶⁰ The effect increases with the inflation rate. Adam N. Michel, "Expensing and the Taxation of Capital Investment," Cato Institute Briefing Paper no. 159 (June 7, 2023), https://www.cato.org/briefing-paper/expensing-taxation-capitalinvestment.

¹⁶² Adam N. Michel, "Slashing Tax Rates and Cutting Loopholes," Cato Institute Policy Analysis no. 975 (June 17, 2024), https://www.cato.org/policyanalysis/slashing-tax-rates-cutting-loopholes; Veronique de Rugy, "Tax Extenders: Don't Extend Bad Policy," Mercatus Center Policy Brief (November 11, 2016), https://www.mercatus.org/research/policy-briefs/taxextenders-dont-extend-bad-policy.

that generally has universal agreement as it decreases costs of compliance, reduces tax evasion, and promotes growth.¹⁶³

¹⁶³ William G. Gale, "Tax Simplification: Issues and Options," Brookings Institution commentary, July 17, 2001, https://www.brookings.edu/articles/taxsimplification-issues-and-options/; Jason J. Fichtner, Veronique de Rugy, Matthew D. Mitchell, Angela Kuck, and Adam N. Michel, "Fixing' the Tax Code: Key Principles for Successful, Sustainable Reform," Mercatus Center Policy Brief (May 25, 2016), https://www.mercatus.org/students/research/policy-briefs/fixing-tax-code-

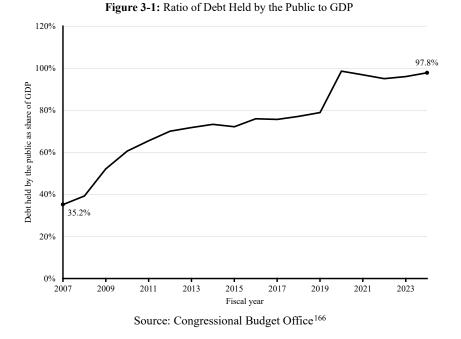
CHAPTER 3: THE THREAT OF RISING INTEREST RATE SENSITIVITY

The U.S. is approaching an urgent sovereign debt crisis. As explained in Chapter 1, as well as throughout the Republican Responses in the 2023 and 2024 Joint Economic Reports (Response), the U.S. is in a dire fiscal situation. The main driver of its debt growth is unsustainable spending, primarily in outlays related to entitlement programs. In FY2024, outlays on Social Security, Medicare, and Medicaid amounted to \$2.91 trillion, or 43.2 percent of total federal outlays. By 2035, the last year of the ten-year window in the most recent Congressional Budget Office (CBO) baseline budget projection, this is projected to rise to \$5.25 trillion, or 49.7 percent of total federal outlays.

Bipartisan stimulus programs during the COVID-19 pandemic and the 2007–2009 Great Financial Crisis (GFC), as well as partisan spending packages such as the *American Rescue Plan Act* (ARPA) and the *Inflation Reduction Act* (IRA), have significantly impacted recent debt growth. Since 2007, debt held by the public has increased from \$5 trillion to over \$28 trillion as of FY2024, rising from just 35.2 percent of GDP to 97.8 percent.¹⁶⁵

¹⁶⁴ Congressional Budget Office, "10-Year Budget Projections," Budget and Economic Data, January 2025, https://www.cbo.gov/system/files/2025-01/51118-2025-01-Budget-Projections.xlsx.

¹⁶⁵ Congressional Budget Office, "Historical Data and Economic Projections," Budget and Economic Data, January 2025, https://www.cbo.gov/system/files/2025-01/51134-2025-01-Historical-Budget-Data.xlsx.

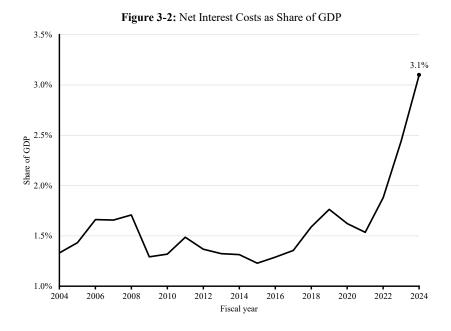


While rising primary deficits from entitlement programs and large spending packages have been the leading driver of increasing federal debt, interest costs have increasingly contributed to widening deficits and higher federal debt. Net interest costs pose a significant threat to the country's fiscal health. This Chapter reviews theories of interest rates and current fiscal policy dynamics surrounding the state of interest rates. It then examines trends in interest rates and costs, concluding with a discussion of their implications for the U.S.' fiscal health and trajectory.

¹⁶⁶ Congressional Budget Office, "Historical Data and Economic Projections," January 2025.

Rising interest costs are consuming an ever-growing share of the federal budget

In FY2024, net interest costs surpassed total outlays on national defense, reaching nearly \$900 billion.¹⁶⁷ This is the first time that this has occurred since at least 1940, the earliest year for which the White House Office of Management and Budget (OMB) has data available.¹⁶⁸ Furthermore, net interest costs have reached just over 13 percent of total outlays and 3.1 percent of gross domestic product (GDP), the highest since 1999 and 1995, respectively.¹⁶⁹



¹⁶⁷ Net interest costs are the sum of interest payments on borrowed debt minus intragovernmental transfers. Congressional Budget Office, "10-Year Budget Projections," January 2025.

- ¹⁶⁸ Office of Management and Budget, "Table 3.1 Outlays by Superfunction and Function: 1940 - 2029," Historical Tables, https://bidenwhitehouse.archives.gov/wp
 - content/uploads/2024/03/hist03z1 fy2025.xlsx.
- ¹⁶⁹ Congressional Budget Office, "Historical Data and Economic Projections," January 2025.

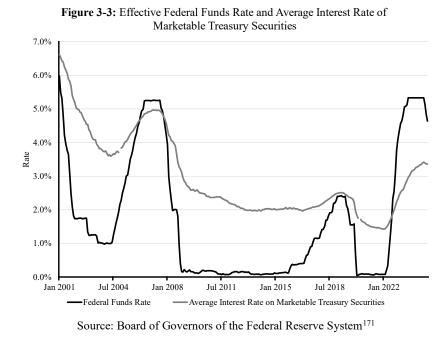
Source: Congressional Budget Office¹⁷⁰

There are several reasons why the recent rapid growth of net interest costs is concerning. First, interest costs provide no value as a good or service provided by the government—they are simply payments to finance past deficits. Interest costs use revenue that could be used for other government outlays, such as national defense. Furthermore, interest costs are sensitive to changes in interest rates, and refinancing maturing debt at higher rates increases net interest costs and can contribute to additional debt growth. This makes reducing deficits and the national debt more difficult.

Nominal net interest costs are a function of the size of the debt and the level of interest rates. A simplified calculation of interest costs for explanative purposes can be made with the formula below.

Net
$$Interest_m = D_m * \frac{\overline{IR}_m}{12}$$

¹⁷⁰ Congressional Budget Office, "Historical Data and Economic Projections," January 2025.



If interest rates remain elevated above their level since the GFC, interest costs will produce a significant and extended drag on the federal budget. Rising debt, accelerated by deficit-financed partisan spending programs such as ARPA, which cost nearly \$2 trillion, exacerbates the effect of elevated interest rates on net interest costs as more debt is being financed at a higher rate.¹⁷²

How are interest rates on federal debt set?

Just as there are markets for equities and commodities, there is a market for government debt. Governments sell debt—Treasury securities, in the case of the U.S.—to finance current government

- American Rescue Plan Act of 2021," March 10, 2021, https://www.cbo.gov/system/files/2021-
 - 03/Estimated_Budgetary_Effects_of_HR_1319_as_passed_0.pdf.

¹⁷¹ Board of Governors of the Federal Reserve System, "Federal Funds Effective Rate."¹⁷² Congressional Budget Office, "Estimated Budgetary Effects of H.R. 1319,

expenditures when outlay obligations exceed revenues, a situation that results in a budget deficit.¹⁷³ Investors, in turn, purchase government debt with the expectation they will receive a return.¹⁷⁴ Common investors in Treasuries include depository institutions, pension funds, private investors, foreign governments, state and local governments, intragovernmental accounts, and central banks.¹⁷⁵ Table 3-1 shows the ownership of publicly held debt by type of lender. Figure 3-4 shows how it has changed since 2015.

Table 3-1: Ownership of U.S. Publicly Held Debt, December2023

Investor	Amount (billions)
Federal Reserve and Government Accounts	\$11,848.1
Foreign and International	\$7,933.2
Other Investors	\$5,887.1
Mutual Funds	\$3,647.8
Depository Institutions	\$1,646.8
State and Local Governments	\$1,566.7
Private Pension Funds	\$452.9
Insurance Companies	\$444.1
State and Local Government Pensions Funds	\$402.8
U.S. Savings Bonds	\$171.9

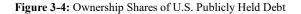
Source: U.S. Department of the Treasury¹⁷⁶

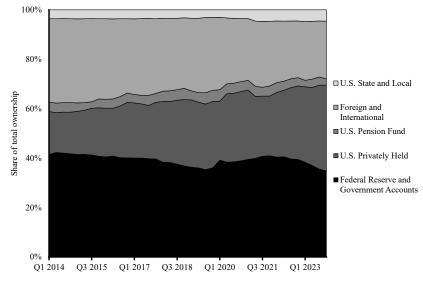
¹⁷³ Fiscal Data, "What is the national debt?" U.S. Department of the Treasury, https://fiscaldata.treasury.gov/americas-finance-guide/national-debt/.

¹⁷⁴ Peter G. Peterson Foundation, "What Types of Securities Does the Treasury Issue?" August 19, 2024, https://www.pgpf.org/article/how-does-the-treasury-issuedebt/.

¹⁷⁵ Bureau of the Fiscal Service, *Treasury Bulletin* (U.S. Department of the Treasury, December 2024), p. 63, https://fiscal.treasury.gov/files/reportsstatements/treasury-bulletin/b2024-4.pdf.

¹⁷⁶ Bureau of the Fiscal Service, *Treasury Bulletin*.





Source: U.S. Department of the Treasury¹⁷⁷

As in any other market, the price of Treasuries is predominantly determined by supply and demand.¹⁷⁸ The price of a Treasury security is inversely related to its yield, and the yield reflects the interest rate paid over a given period.¹⁷⁹ As demand for a particular Treasury security increases, the yield falls, and vice versa.¹⁸⁰ As supply increases, the yield rises, and vice versa.

As a U.S. federal government default is unprecedented—the yield on its securities is generally used as the "risk-free" interest rate—

¹⁷⁷ Bureau of the Fiscal Service, *Treasury Bulletin*.

¹⁷⁸ Egemen Eren, Andreas Schrimpf, and Fan Dora Xia, "The demand for government debt," Bank for International Settlements Working Paper no. 1105, https://www.bis.org/publ/work1105.pdf.

¹⁷⁹ TreasuryDirect, "Understanding Pricing and Interest Rates," https://treasurydirect.gov/marketable-securities/understanding-pricing/.

¹⁸⁰ Reserve Bank of Australia, "Bonds and the Yield Curve," https://www.rba.gov.au/education/resources/explainers/bonds-and-the-yieldcurve.html.

Treasury yields reflect the floor for interest rates in the economy.¹⁸¹ Demand for Treasuries is significant due to the size and robustness of the U.S. economy, its relative political stability and geopolitical influence, as well as the use of the dollar in about three quarters of global foreign transactions.¹⁸²

The supply and demand for Treasuries can vary by type and maturity. Marketable Treasury securities make up 98 percent of all publicly held U.S. debt, and there are three main types of these securities: bills, notes, and bonds. Bills have a maturity of less than one year, notes have a maturity ranging from two to ten years, and bonds have maturities of over ten years. Notes represent slightly more than 50 percent of total marketable debt, and bills and bonds comprise around 20 percent each. Other securities, such as Treasury Inflation Protected Securities (TIPS), and Floating Rate Notes (FRNs) make up the remaining share.¹⁸³ Proposed securities such as "trills"—a security that pays out one trillionth of GDP each quarter—or gold convertible securities are novel financing mechanisms for the federal government that would increase investors' options.¹⁸⁴ These instruments should be considered.

https://rpc.cfainstitute.org/sites/default/files/-

¹⁸¹ Reserve Bank of Australia, "Bonds and the Yield Curve."

¹⁸² Olivier Fines and Urav Soni, "The Dollar's Exorbitant Privilege," CFA Institute Research & Policy Center (October 2024),

[/]media/documents/survey/dollars-exorbitant-privilege-survey-report.pdf.

¹⁸³ Peter G. Peterson Foundation, "What Types of Securities Does the Treasury Issue?"

¹⁸⁴ Robert J. Shillerm "A Way to Share in a Nation's Growth," *The New York Times*, December 26, 2009,

https://www.nytimes.com/2009/12/27/business/economy/27view.html; Mark Kamstra and Robert J. Shiller, "The Case for Trills: Giving Canadians and their Pension Funds a Stake in the Wealth of the Nation," C.D. Howe Institute commentary no. 271 (August 2008), https://cdhowe.org/wpcontent/uploads/2024/04/commentary_271.pdf; USA Gold, "Reviving the Gold Standard: Judy Shelton's Proposal for a Gold-Convertible Treasury Bond," November 25, 2024, https://www.usagold.com/reviving-the-goldstandard-judy-sheltons-proposal-for-a-gold-convertible-treasury-bond/.

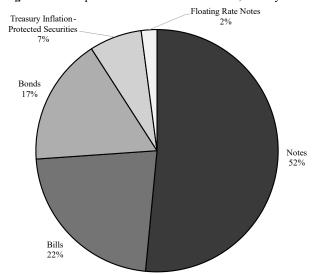


Figure 3-5: Composition of U.S. Marketable Debt, January 2025

Source: U.S. Department of the Treasury¹⁸⁵

The relationship between the maturity of a security and its yield can be represented with a yield curve. Generally, the yield curve is upward sloping; the yield on a security with a longer maturity is typically higher than on those with a shorter maturity. This reflects the increased risks of locking in capital for a longer term. These risks include inflation running higher than expected, which affects the real value of the security, and interest rates rising before the security matures.¹⁸⁶ Based on data from 1990 to 2023, the average term spread between the 3-month and 10-year Treasury was just

¹⁸⁵ Fiscal Data, "U.S. Treasury Monthly Statement of the Public Debt (MSPD)," U.S. Department of the Treasury, https://fiscaldata.treasury.gov/datasets/monthly-statement-public-debt/summary-of-treasury-securities-outstanding.

¹⁸⁶ Federal Reserve Bank of New York, "Treasury Term Premia," https://www.newyorkfed.org/research/data_indicators/term-premia-tabs. under 1.6 percentage points.¹⁸⁷ Figure 3-6 shows a yield curve depicting data of average yields from 2007 through 2023, the full period of data available for most of the major maturities.¹⁸⁸

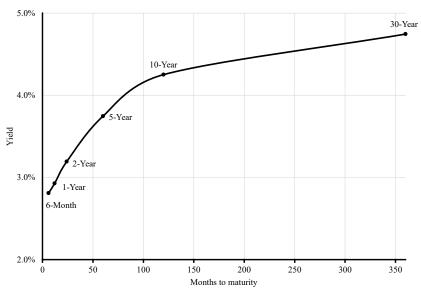


Figure 3-6: Yield Curve, Average Interest Rates by Maturity

Source: U.S. Department of the Treasury¹⁸⁹

While supply and demand determine the yield of all Treasuries regardless of maturity, the yield of Treasuries at the shorter end are particularly influenced by the actions of the central bank. In the U.S., the Federal Open Market Committee (FOMC) of the Federal Reserve (Fed) has near full control over short-term interest

¹⁸⁷ U.S. Department of the Treasury, "Interest Rates Data CSV Archive," https://home.treasury.gov/interest-rates-data-csv-archive.

- ¹⁸⁸ Other common maturities than those denoted in the chart include the 1-month, 3month, 3-year, 7-year, and 20-year. TreasuryDirect, "About Treasury Marketable Securities," https://treasurydirect.gov/marketable-securities/.
- ¹⁸⁹ U.S. Department of the Treasury, "Interest Rates Data CSV Archive."

rates. ¹⁹⁰ The FOMC exercises this control by setting the Federal Funds Rate (FFR), the Fed's main policy tool. Raising the FFR increases borrowing costs, which puts downward pressure on current consumption and incentivizes savings. This tends to dampen demand in the economy, which, in turn, tends to reduce inflationary pressures.¹⁹¹ The opposite occurs when the Fed lowers the FFR.¹⁹²

In contrast, the Fed has historically exercised less direct control over long-term interest rates, such as the 10-year Treasury, compared to short-term interest rates.¹⁹³ While there is some dispute in the literature, the yield on long-term debt is largely a function of the expected path of short-term rates.¹⁹⁴ The path of rates is also influenced by expectations of inflation and economic growth, as well as the uncertainty of those projections, which

https://www.federalreserve.gov/faqs/money_12856.htm.

¹⁹⁴ N. Gregory Mankiw and Lawrence H. Summers, "Do Long-Term Interest Rates Overreact to Short-Term Interest Rates?" *Brookings Papers on Economic Activity* 15, no. 1 (1984), https://www.brookings.edu/wpcontent/uploads/1984/01/1984a_bpea_mankiw_summers_weiss.pdf; David O. Lucca, Samuel Hanson, and Jonathan H. Wright, "The Sensitivity of Long-Term Interest Rates: A Tale of Two Frequencies," Federal Reserve Bank of New York, March 4, 2019, https://libettuctractoconomics.pupulefed.org/2010/02/the concitivity.of

https://libertystreeteconomics.newyorkfed.org/2019/03/the-sensitivity-of-long-term-interest-rates-a-tale-of-two-frequencies/.

¹⁹⁰ David Wessel and Manuel Alcalá Kovalski, "The Hutchins Center Explains: The yield curve – what it is, and why it matters," Brookings Institution commentary, December 5, 2018, https://www.brookings.edu/articles/thehutchins-center-explains-the-yield-curve-what-it-is-and-why-it-matters/.

¹⁹¹ Board of Governors of the Federal Reserve System, "How does the Federal Reserve affect inflation and employment?"

¹⁹² Board of Governors of the Federal Reserve System, "How does the Federal Reserve affect inflation and employment?"

¹⁹³ Nathaniel Drake, "What Determines the Rate on a 30-Year Mortgage?" Fannie Mae, December 11, 2024, https://www.fanniemae.com/research-andinsights/publications/housing-insights/rate-30-year-mortgage.

increases as the time horizon is extended into the future.¹⁹⁵ This means that longer-term rates are influenced by the central bank's policies but are also influenced by other exogenous factors. Relatively recently, the Fed has exercised more direct control over long-term interest rates as it provided liquidity to markets and stimulated economic activity in times of downturn and financial crisis.

The Fed's efforts to control interest rates

To fulfill the Fed's dual mandate of maximum employment and price stability following the GFC, the FOMC eased monetary policy to reduce borrowing costs and increase economic activity.¹⁹⁶ Beginning in September 2007, the Fed began a cycle of cutting the FFR, pushing yields at the short end of the yield curve near the same level.¹⁹⁷ The FFR reached zero by the end of 2009.¹⁹⁸ When short-term rates hit their lower bound, the Fed started a program of large-scale asset purchases to help stimulate economic activity by lowering long-term rates for Treasuries and other debt securities, including mortgage-backed securities

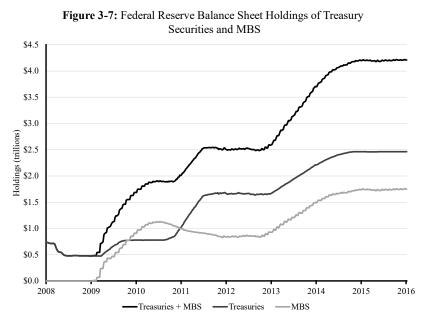
¹⁹⁵ Tobias Adrian, "The Role of Inflation Expectations in Monetary Policy," International Monetary Fund, May 15, 2023, https://www.imf.org/en/News/Articles/2023/05/15/sp-role-inflationexpectations-monetary-policy-tobias-adrian.

¹⁹⁶ Federal Reserve Bank of Chicago, "The Federal Reserve's Dual Mandate," October 20, 2020, https://www.chicagofed.org/research/dual-mandate/dual-mandate; Tax Policy Center, "What did the 2008–10 tax stimulus acts do?" The Tax Policy Briefing Book, https://taxpolicycenter.org/briefing-book/what-did-2008-10-tax-stimulus-acts-do.

¹⁹⁷ Board of Governors of the Federal Reserve System, "Federal Funds Effective Rate;" Marc Seidner and Pramol Dhawan, "Cuts and Consequences," PIMCO Perspectives, September 12, 2024, https://www.pimco.com/us/en/insights/cuts-and-consequences.

¹⁹⁸ Board of Governors of the Federal Reserve System, "Federal Funds Effective Rate;" Diamond Hill, "Historical Perspective: The Fed's Latest Rate Cut in Context," September 26, 2024, https://www.diamond-hill.com/insights/a-714/articles/historical-perspective-the-feds-latest-rate-cut-in-context/.

(MBS). More commonly referred to as quantitative easing (QE), the first iteration of this program occurred in three rounds between late 2008 and early 2015.¹⁹⁹ During this period, the Fed purchased nearly \$2 trillion in Treasury securities and over \$1.7 trillion in MBS, bringing the total balance of these two types of securities on the balance sheet from around \$500 billion to over \$4 trillion.²⁰⁰



Source: Board of Governors of the Federal Reserve System²⁰¹

¹⁹⁹ Stephan Luck and Thomas Zimmermann, "Ten Years Later—Did QE Work?" Federal Reserve Bank of New York, May 8, 2019, https://libertystreeteconomics.newyorkfed.org/2019/05/ten-years-laterdid-qework/.

- ²⁰⁰ Board of Governors of the Federal Reserve System, "Assets: Total Assets: Total Assets (Less Eliminations from Consolidation): Wednesday Level," https://fred.stlouisfed.org/series/WALCL.
- ²⁰¹ Board of Governors of the Federal Reserve System, "Assets: Total Assets: Total Assets (Less Eliminations from Consolidation): Wednesday Level."

Research suggests that the cumulative effect of these three rounds of QE resulted in a decline in the yield of 10-year Treasury securities of up to 1.2 percentage points.²⁰² As the Fed's actions depressed Treasury yields, the average interest rate on the debt, and subsequently net interest costs, were also depressed.²⁰³

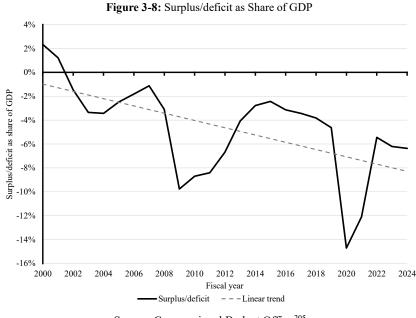
Net interest costs remained below 2 percent of GDP through 2022, extending the streak that began in 2002, notably lower than the rate in the 1980s and 1990s when the total nominal amount of debt was far lower.²⁰⁴ Lower net interest costs enabled the U.S. federal government to continue deficit spending, mitigating the interest cost drag of the growth in debt. This supported deficits that averaged over 6 percent of GDP between 2009 and 2015, the period of QE.

²⁰² Channels through which QE works include 1) signaling, 2) duration risk, 3) liquidity, 4) safety premium, 5) pre-payment risk, 6) default risk, and 7) inflation risk. Joseph E. Gagnon, "Quantitative Easing: An Underappreciated Success," Peterson Institute for International Economics Policy Brief no. PB16-4 (April 2016), p. 4, https://www.piie.com/sites/default/files/documents/pb16-4.pdf; Arvind

Krishnamurthy and Annette Vissing-Jorgensen, "The Effects of Quantitative Easing on Interest Rates: Channels and Implications for Policy," NBER Working Paper no. 17555 (October 2011), https://doi.org/10.3386/w17555.

²⁰³ Congressional Budget Office, How the Federal Reserve's Quantitative Easing Affects the Federal Budget, CBO report (September 8, 2022), https://www.cbo.gov/publication/58457.

²⁰⁴ Congressional Budget Office, "Historical Data and Economic Projections," January 2025, Table 3a.



Source: Congressional Budget Office²⁰⁵

The outbreak of the COVID-19 pandemic and resulting economic uncertainty was followed by an immense fiscal and monetary response. As a result of the fiscal response, the federal deficit surpassed 14 percent of GDP in 2020 and remained above 10 percent of GDP in 2021. At the same time, the Fed initiated another round of rate cuts in March 2020 to bring the FFR to effectively zero and engaged in another round of QE to lower interest rates and provide liquidity to financial markets.²⁰⁶ As a

²⁰⁶ Congressional Budget Office, "Historical Data and Economic Projections," February 2024; Eric Milstein and David Wessel, "What did the Fed do in response to the COVID-19 crisis?" Brookings Institution research, January 2, 2024, https://www.brookings.edu/articles/fed-response-to-covid19/; Christina D. Romer, "The fiscal policy response to the pandemic," *Brookings Papers* on Economic Activity (March 24, 2021),

https://www.brookings.edu/articles/the-fiscal-policy-response-to-the-pandemic/.

²⁰⁵ Congressional Budget Office, "Historical Data and Economic Projections," January 2025.

result, the Fed's balance sheet ballooned from just over \$4 trillion in early 2020 to just under \$9 trillion in early 2022, with the amount of Treasuries on the balance sheet rising from about \$2.5 trillion to \$5.7 trillion.²⁰⁷

When inflation spiked following the substantial fiscal stimulus, the Fed began raising interest rates to slow price pressures.²⁰⁸ Between the spring of 2022 and the summer of 2023, the FOMC raised the FFR 11 times, amounting to a total increase of 5.25 percentage points. In 2022, the Fed also initiated quantitative tightening (QT), the process of reducing the amount of assets on its balance sheet.²⁰⁹ QT involves allowing a certain number of securities that mature each month not to be re-invested and instead roll off the Fed's balance sheet.²¹⁰ Since QT began, the value of Treasuries on the balance sheet has declined by over \$1.4 trillion.²¹¹ Research suggests that given enough magnitude, the tightening effects on financial conditions and interest rates, such

²⁰⁷ Board of Governors of the Federal Reserve System, "Assets: Securities Held Outright: U.S. Treasury Securities: All: Wednesday Level," https://fred.stlouisfed.org/series/TREAST; Board of Governors of the Federal Reserve System, "Assets: Total Assets: Total Assets (Less Eliminations from Consolidation): Wednesday Level."

²⁰⁸ Jane Ihrig and Chris Waller, "The Federal Reserve's responses to the post-Covid period of high inflation," FEDS Notes (Board of Governors of the Federal Reserve System, February 14, 2024), https://doi.org/10.17016/2380-7172.3455.

²⁰⁹ David Wessel, "How will the Federal Reserve decide when to end 'quantitative tightening'?" Brookings Institution commentary, October 17, 2024, https://www.brookings.edu/articles/how-will-the-federal-reserve-decidewhen-to-end-quantitative-tightening/.

²¹⁰ Tim Sablik, "The Fed Is Shrinking Its Balance Sheet. What Does That Mean?" Federal Reserve Bank of Richmond *Econ Focus* 27, no. 3 (Third Quarter 2022), https://www.richmondfed.org/-/media/RichmondFedOrg/publications/research/econ_focus/2022/q3/federal_ reserve.pdf.

²¹¹ Board of Governors of the Federal Reserve System, "Assets: Securities Held Outright: U.S. Treasury Securities: All: Wednesday Level."

as the 10-year Treasury, are equivalent to entire rate hikes in the FFR. Specifically, a roll-off of a little more than \$2 trillion dollars amounts to a little more than one 25-basis-point hike in the FFR.²¹²

By suppressing Treasury yields, and thus interest costs, the Federal Reserve effectively supported the federal government's deficit spending and rapid accumulation of debt. With much higher debt levels and rising interest rates, the U.S. is projected to face increasing interest costs, higher deficits, and even higher debt levels.²¹³ Higher debt levels, in turn, could push up interest rates through a rising risk premium.²¹⁴ If a country's fiscal trajectory worsens, markets may assess the government's probability of default-the loss of its ability to continue to finance its debts-to be elevated. A study of a wide selection of countries finds that government debt and other economic, governance, and fiscal performance variables have a statistically significant impact on sovereign debt ratings.²¹⁵ This can lead to the markets demanding higher yields from the government to compensate for the increased perceived risk of default. While the U.S. has attributes that act as a counterweight to its rising debt levels, such as control of the world's reserve currency, large and liquid capital markets, and the

²¹² Bin Wei, "Quantifying 'Quantitative Tightening' (QT): How Many Rate Hikes Is QT Equivalent To?" Federal Reserve Bank of Atlanta (May 8, 2022), https://dx.doi.org/10.2139/ssrn.4103824.

²¹³ Congressional Budget Office, "10-Year Budget Projections," January 2025.

²¹⁴ For an explanation of risk-premia in the context of corporate bonds, see: John C. Hull, Mirela Predescu, and Alan White, "Bond Prices, Default Probabilities and Risk Premiums" (March 9, 2005), https://dx.doi.org/10.2139/ssrn.2173148; Cinzia Alcidi and Daniel Gros, "Public debt and the risk premium: A dangerous doom loop," Centre for European Policy Studies Policy Insights no. 2019-06 (May 2019), https://www.sipotra.it/wp-content/uploads/2019/05/Public-debt-and-the-riskpremium-A-dangerous-doom-loop.pdf.

²¹⁵ António Afonso, Pedro Gomes, and Philipp Rother, "What 'Hides' Behind Sovereign Debt Ratings?" European Central Bank Working Paper no. 711 (January 2007), https://doi.org/10.2139/ssrn.954705.

largest economy in the world in nominal terms, a deteriorating fiscal trajectory presents risks to its perceived ability to finance its debts.

Interest costs: where we are and where we used to be

While interest rates in the current period may appear high, by historical standards they are not. Between 1965 and 1990, the FFR was usually well over 5 percent, largely the result of the Fed's fight against "The Great Inflation," which lasted from the mid-1960s through the early 1980s.²¹⁶ Rising from about 2 percent year-over-year in 1965, inflation peaked at over 14 percent year-over-year in 1980.²¹⁷ In 1981, the response from the Fed, led by newly appointed Chairman Paul Volcker, brought an already elevated FFR to nearly 20 percent. In response to previous inflation, the FFR had already risen from around 4 percent in 1965 to 10 percent in 1979.²¹⁸ This spike in interest rates contributed to the recession of 1981–1982, but inflation was quelled to more normal levels, around 3 percent year-over-year, by 1983.²¹⁹ After this period,

²¹⁶ Board of Governors of the Federal Reserve System, "Federal Funds Effective Rate;" Michael Bryan, "The Great Inflation," Federal Reserve History, as of November 22, 2013, https://www.federalreservehistory.org/essays/greatinflation.

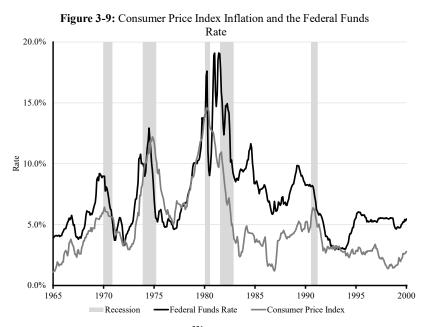
²¹⁷ U.S. Bureau of Labor Statistics, "Consumer Price Index for All Urban Consumers: All Items in U.S. City Average,"

https://fred.stlouisfed.org/series/CPIAUCSL. ²¹⁸ Board of Governors of the Federal Reserve System, "Federal Funds Effective

Rate:" Brvan. "The Great Inflation."

²¹⁹ Tim Sablik, "Recession of 1981–82," Federal Reserve History, as of November 22, 2013, https://www.federalreservehistory.org/essays/recession-of-1981-82; Congressional Budget Office, *The Prospects for Economic Recovery*, CBO report (February 1982), p. XI, https://www.cbo.gov/publication/15329; J. A. Cacy, "Monetary Policy in 1981 and 1982," *Economic Review* 66 (December 1981), https://www.kansascityfed.org/documents/885/1981-Monetary%20Policy%20in%201981%20and%201982.pdf; John H. Cochrane, "Fiscal Histories," *The Journal of Economic Perspectives* 36, no. 4 (2022): 125–46, https://doi.org/10.1257/jep.36.4.125; U.S. Bureau of Labor Statistics, "Consumer Price Index for All Urban Consumers."

interest rates remained above modern levels due largely to relatively strong economic growth, which averaged 3.7 percent between 1983 and 2000.²²⁰ The trend in the FFR and Consumer Price Index (CPI) inflation over the period is shown in Figure 3-9.



Sources: Bureau of Labor Statistics;²²¹ Board of Governors of the Federal Reserve System;²²² National Bureau of Economic Research²²³

As a result of the elevated interest rates of this period, between FY1980 and FY2000, net interest outlays as a share of GDP averaged 2.8 percent, still higher than the level in FY2023, and only slightly lower than the 3.1 percent of GDP reached in

²²⁰ U.S. Bureau of Economic Analysis, "Real Gross Domestic Product," https://fred.stlouisfed.org/series/GDPC1.

²²¹ U.S. Bureau of Labor Statistics, "Consumer Price Index for All Urban Consumers."

²²² Board of Governors of the Federal Reserve System, "Federal Funds Effective Rate."

²²³ National Bureau of Economic Research, "Business Cycle Dating,"

https://www.nber.org/research/business-cycle-dating.

FY2024.²²⁴ As a share of outlays, net interest costs averaged 13.5 percent over the same span. Net interest costs as a share of GDP from 1970 to 2035, which includes the CBO forecast, are shown in Figure 3-10. While current net interest outlays as a share of GDP are not yet high relative to historical levels, CBO projects interest costs as a share of GDP will surpass 4.1 percent in 2035.²²⁵

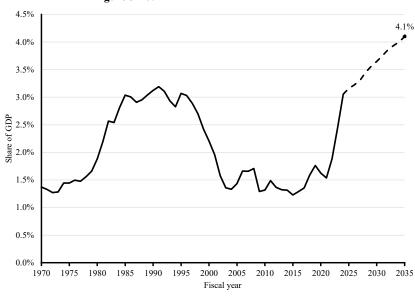


Figure 3-10: Net Interest Costs as Share of GDP

Source: Congressional Budget Office²²⁶

Net interest costs are not out of the range of normalcy, like levels seen between 1980 and 2000.²²⁷ However, their recent increase is

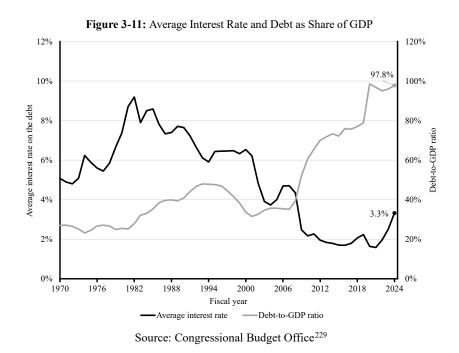
²²⁴ Congressional Budget Office, "Long-Term Budget Projections," Budget and Economic Data, January 2025, https://www.cbo.gov/system/files/2025-01/51119-2025-01-LTBO-budget.xlsx; Congressional Budget Office, "10-Year Budget Projections," January 2025.

²²⁵ Congressional Budget Office, "10-Year Budget Projections," January 2025.

²²⁶ Congressional Budget Office, "Historical Data and Economic Projections," January 2025.

²²⁷ Congressional Budget Office, "10-Year Budget Projections," January 2025.

concerning because the cause in this case is not historically high interest rates, rather a dramatically higher debt profile as a share of GDP. ²²⁸



Given the rapid rise in debt, relatively small changes in interest rates by historical standards can dramatically impact net interest

²²⁸ Congressional Budget Office, "10-Year Budget Projections," Budget and Economic Data, January 2025, Table B-1; U.S. Bureau of Economic Analysis, "Real Gross Domestic Product;" U.S. Bureau of Labor Statistics, "Consumer Price Index for All Urban Consumers;" Congressional Budget Office, "The Historical Decline in Real Interest Rates and Its Implications for CBO's Projections," CBO Working Paper no. 2020-09 (December 21, 2020), https://www.cbo.gov/publication/56891; Maurice Obstfeld and Linda Tesar, "The Decline in Long-Term Interest Rates," The Obama White House blog, July 14, 2015,

https://obamawhitehouse.archives.gov/blog/2015/07/14/decline-long-term-interest-rates.

²²⁹ Congressional Budget Office, "Historical Data and Economic Projections," January 2025.

costs by hundreds of billions of dollars. For example, if the average interest rate on the debt was the same as when it peaked in 1982, under the current debt profile, net interest costs would surpass \$2.4 trillion per year. This would amount to over 50 percent of total FY2023 revenues.²³⁰ If the ratio of debt held by the public to GDP continues rising near the pace projected by CBO, surpassing 154 percent by 2055, a mere 1 percentage point increase in the average interest rate on the debt would lead to an increase in net interest costs of over 5 percent of outlays.²³¹ The sensitivity of net interest costs to interest rate changes is best summarized in a matrix to see how even small changes over a few years can lead to much larger outlays over the budget window.

²³⁰ Congressional Budget Office, "Historical Data and Economic Projections," January 2025.

²³¹ Congressional Budget Office, "Long-Term Budget Projections," January 2025.

Table 3-2: Net Interest Cost Representation Matrix

			Incre	ase in th	e 10-Year	Treasury	interest ra	ate, relativ	e to basel	ine (%)	
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
	1	\$39	\$78	\$117	\$155	\$194	\$233	\$272	\$311	\$350	\$389
	2	\$76	\$152	\$229	\$305	\$381	\$457	\$534	\$610	\$686	\$762
	3	\$113	\$225	\$338	\$450	\$563	\$676	\$788	\$901	\$1,013	\$1,126
4 of ates	4	\$149	\$297	\$446	\$594	\$743	\$891	\$1,040	\$1,188	\$1,337	\$1,485
r 202 erest r	5	\$181	\$363	\$544	\$725	\$907	\$1,088	\$1,270	\$1,451	\$1,632	\$1,814
Years after 2024 of higher interest rates	6	\$212	\$424	\$636	\$848	\$1,060	\$1,272	\$1,484	\$1,696	\$1,908	\$2,120
Yeaı high	7	\$240	\$481	\$721	\$961	\$1,202	\$1,442	\$1,683	\$1,923	\$2,163	\$2,404
	8	\$265	\$529	\$794	\$1,058	\$1,323	\$1,587	\$1,852	\$2,116	\$2,381	\$2,645
	9	\$283	\$567	\$850	\$1,134	\$1,417	\$1,701	\$1,984	\$2,268	\$2,551	\$2,834
	10	\$291	\$583	\$874	\$1,166	\$1,457	\$1,749	\$2,040	\$2,332	\$2,623	\$2,915
	Source	a. Con	raccio	nol Ru	daat Of	fice. 232	IEC Do	nublica	ne color	lations	

Source: Congressional Budget Office;²³² JEC Republicans calculations

Implications for U.S. fiscal health

The growth of the debt and increase in net interest costs present significant adverse implications for the U.S.' fiscal health. If rising debt begets higher interest rates, and higher interest rates raise interest costs and exacerbate debt growth, a vicious cycle can form. The fiscal trajectory must be addressed.

As explained in Chapter 2 of the 2023 and Chapter 1 of the 2024 *Response*, so long as real interest rates remain below the growth rate of the economy and deficits are sufficiently small, the U.S. can stabilize the growth of the debt-to-GDP ratio. This framework draws on Olivier Blanchard's 2019 presidential address to the

²³² Congressional Budget Office, "Workbook for How Changes in Economic Conditions Might Affect the Federal Budget: 2024 to 2034," CBO interactive, April 9, 2024, https://www.cbo.gov/publication/60074.

American Economic Association and considers the relationship between three macroeconomic variables presented below.²³³

- 1. the inflation-adjusted growth rate of the U.S. economy ("g");
- 2. the inflation-adjusted interest rate on U.S. Federal debt ("r"); and
- 3. the primary deficit of the U.S. Federal government ("p").

As a simplifying assumption, assume that r and g are constants, equal to their long-run averages. Where t denotes time, the growth of the debt-to-GDP ratio is given as follows.

$$\frac{\partial}{\partial t} \left(\frac{Debt_t}{GDP_t} \right) = (r - g) * \frac{Debt_t}{GDP_t} + \frac{p_t}{GDP_t}$$

While this framework highlights two levers for stabilizing debtto-GDP, growing the economy and lowering deficits, a deteriorating fiscal trajectory raises the risk that higher interest rates will impair both levers. The first lever, growing the economy, mitigates politically infeasible spending cuts and tax hikes, but there is a ceiling to reasonable expectations of economic growth. Even a return to 1990s-era economic expansion would do little to change the trajectory of real deficit growth.²³⁴ Faster economic growth could also raise interest rates by increasing the demand for loanable funds, slightly reducing the potential benefits of

 ²³³ Olivier Blanchard, "Public Debt and Low Interest Rates," *American Economic Review* 109, no. 4 (2019): 1197–1229,

https://doi.org/10.1257/aer.109.4.1197.

²³⁴ Stephen D. Oliner and Daniel E. Sichel, "The Resurgence of Growth in the Late 1990s: Is Information Technology the Story?" Finance and Economics Discussion Series (Board of Governors of the Federal Reserve System, April 2000),

https://www.federalreserve.gov/pubs/feds/2000/200020/200020pap.pdf.

accelerated expansion to deficit reduction.²³⁵ Further, rising interest rates crowd out private investment, slowing economic growth and the growth of tax revenue, worsening deficits. Servicing debt requires capital that would otherwise be used and invested in private markets. As debt increases relative to GDP, private investment is crowded out, raising marginal returns to capital. This causes rising competition for loanable funds, pushing up interest rates.²³⁶

To meaningfully use the second lever, decreasing primary deficits, there must be a reduction in mandatory outlays, which make up over 60 percent of total outlays and just under 70 percent of total non-interest outlays, as of FY2024.²³⁷ As Chapter 3 of the *2023 Response* and Chapter 4 of the *2024 Response* explain, addressing Americans' physical health, for example through innovation, could alter the path of mandatory outlays. Unfortunately, the federal government has not developed a plan to materially address deficits. There may come a time when this has critical implications for monetary policy.

https://www.federalreserve.gov/monetarypolicy/files/FOMC20151013memo 03.pdf; Congressional Budget Office, "Long-Term Budget Projections," January 2025.

²³⁵ Alexander W. Salter, "Faster Growth and Interest Rates: Even Harder than You Think," *The Daily Economy*, March 7, 2024, https://thedailyeconomy.org/article/faster-growth-and-interest-rates-evenharder-than-you-think/.

²³⁶ Research suggests that an increase in the federal debt-to-GDP ratio of 1 percentage point leads to an increase in interest rates of 2 to 3 basis points through this pathway. Under the long-term budget projections from CBO, the debt-to-GDP ratio is set to rise from 98 percent in FY2024 to 154 percent in FY2055. This would result in interest rates between 1.3 and 2 percentage points higher than they are currently, ceteris paribus. Kei-Mu Yi and Jing Zhang, "Real Interest Rates Over the Long Run," FOMC memo (Federal Reserve, October 13, 2015),

²³⁷ Congressional Budget Office, "10-Year Budget Projections," January 2025.

Fiscal dominance is when the monetary authority is forced to cede its power of inflation management to the fiscal authority to stabilize deficits. This contrasts with a monetary dominance regime where the central bank adjusts policy to control inflation without regard to fiscal conditions or deficits, the job of the fiscal authority.²³⁸

Table 3-3: Monetary vs. Fis	cal Dominance Regime Attributes
-----------------------------	---------------------------------

Policy Regime		
Monetary Policy	Fiscal Policy	
Active Role	Passive Role	
Determines Inflation	Stabilizes Debt	
Passive Role	Active Role	
Stabilizes Debt	Determines Inflation	
	Monetary Policy Active Role Determines Inflation Passive Role	

If debt grows to the point where the Fed changes its behavior to minimize debt growth under its financial stability mandate by keeping interest rates—and thus interest costs—low, the U.S. could fall into a fiscal dominance regime.²⁴⁰ The consequence of this could be secularly higher inflation, which could destabilize

²³⁸ Eric Leeper, "Fiscal Dominance: How Worried Should We Be?" Mercatus Center policy brief (April 3, 2023), https://www.mercatus.org/research/policybriefs/fiscal-dominance-how-worried-should-we-be.

²³⁹ Leeper, "Fiscal Dominance: How Worried Should We Be?"

²⁴⁰ Renee Haltom and John A. Weinberg, "Does the Fed Have a Financial Stability Mandate?" Federal Reserve Bank of Richmond Economic Brief no. EB17-06, https://www.richmondfed.org/-

[/]media/richmondfedorg/publications/research/economic_brief/2017/pdf/eb_1 7-06.pdf.

and deter business investment and reduce economic activity and growth. $^{\rm 241}$

This condition has plagued several countries that allowed debt growth to surpass sustainable levels, for example Argentina. Elevated deficits and debt profiles caused many of Argentina's economic and fiscal problems, and this forced the government to change monetary policy to accommodate fiscal policy. Since the late 1800s, this has resulted in several cycles of hyperinflation and defaults, with only brief intermittent periods of macroeconomic stability and growth.²⁴² While factors aside from fiscal policy can affect a country's economic growth, the difference in real GDP per capita growth between the U.S. and Argentina is significant and at

²⁴¹ Javier Andres and Ignacio Hernando, "Does Inflation Harm Economic Growth? Evidence for the OECD," NBER Working Paper no. 6062 (June 1997), https://doi.org/10.3386/w6062; John Hooley, Lam Nguyen, Mika Saito, and Shirin Nikaein Towfighian, "Fiscal Dominance and Inflation: Evidence from Sub-Saharan Africa," *Public Sector Economics* 48, no. 48 (2024): 363–91, https://doi.org/10.3326/pse.48.3.5; Jean-Claude Nachega, "Fiscal Dominance and Inflation in the Democratic Republic of the Congo," IMF Working Paper no. 05/221 (November 2005), https://ssrn.com/abstract=888090.

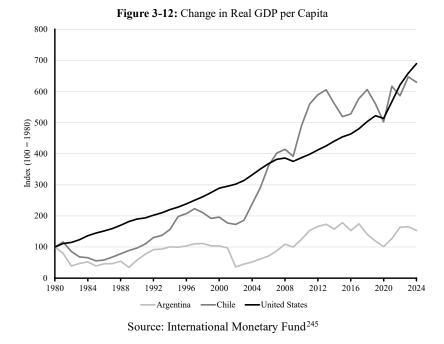
²⁴² Similarly, fiscal dominance has relatively recently plagued Turkey when in the early 2000s a high debt profile constrained the flexibility of the reaction to inflation monetary policy could have. This led to a year in 2001 when the currency was devalued by more than 50 percent and required a significant intervention and fiscal infusion from the International Monetary Fund (IMF) to stabilize the country's fiscal affairs. Hasan Ersel and Fatih Özatay, "Fiscal Dominance and Inflation Targeting: Lessons from Turkey," Emerging Markets Finance and Trade 44, no. 6 (2008): 38-51. https://doi.org/10.2753/REE1540-496X440603; A. Erinc Yeldan, "Turkey and the Long Decade with The IMF: 1998-2008" (June 2008), https://www.networkideas.org/news/jun2008/Turkey IMF.pdf; María Gadea, Marcela Sabaté, and Isabel Sanz, "Long-run fiscal dominance in Argentina, 1875–1990," Financial History Review 19, no. 3 (2012): 311–35, https://doi.org/10.1017/S0968565012000157; Francisco J. Buera and Juan Pablo Nicolini, "The Case of Argentina," Becker Friedman Institute for Economics at the University of Chicago. https://manifold.bfi.uchicago.edu/read/case-of-argentina/section/9905ef24-8c94-42ad-adf7-068efb4d9afb.

least partially attributable to Argentina's poor fiscal management and episodes of fiscal dominance. This led to less prosperity for the citizens of Argentina.

More easily comparable are Chile and Argentina. The neighboring South American countries each liberalized their economies in the late 1970s.²⁴³ Chile has managed its fiscal affairs better than Argentina over the period since, resulting in a significant divergence in GDP growth per capita since liberalization.²⁴⁴

 ²⁴³ D. Hachette and R. Luders, "Privatization in Argentina and Chile: Lessons from a Comparison," The World Bank Internal Discussion Paper no. IDP18 (April 1988), http://documents.worldbank.org/curated/en/619571468914752347; Michael Boskin, "Why does Chile prosper while neighbouring Argentina flounders?" *The Guardian*, November 22, 2013, https://www.theguardian.com/business/economics-blog/2013/nov/22/chile-prosper-argentina-flounders.

²⁴⁴ Sean Silverthorne, "Solving an Economic Mystery Surrounding Argentina and Chile," Harvard Business School Working Knowledge, March 8, 2016, https://www.library.hbs.edu/working-knowledge/solving-an-economicmystery-around-argentina-and-chile; Luciana Vázquez, "Surprisingly, Chile Is Still a Role Model for Argentina," *Americas Quarterly*, May 23, 2023, https://www.americasquarterly.org/article/surprisingly-chile-is-still-a-rolemodel-for-argentina/.



While the potential exists for the U.S. to succumb to fiscal dominance, fortunately, there is not yet a consensus among economists that the country has reached that point.²⁴⁶ To avert that situation, primary deficits must shrink to achieve long-run fiscal balance. Simply relying on the Fed to lower interest rates is not a sufficient strategy. The U.S. should enact policies that would increase the rate of real economic growth, such as those outlined in Chapters 3 and 5 of the *2024 Response*. Furthermore, policies should address mandatory spending through appropriate reforms and innovative solutions, such as those discussed in Chapter 4 of the same report. Immediate action is required before it is too late

²⁴⁵ International Monetary Fund, "GDP per capita, current prices,"

https://www.imf.org/external/datamapper/NGDPDPC@WEO/ARG/CHL/US A.

²⁴⁶ Charles W. Calomiris, "Fiscal Dominance and the Return of Zero-Interest Bank Reserve Requirements," Federal Reserve Bank of St. Louis *Review* 105, no. 4 (Fourth Quarter 2023): 223–33, https://doi.org/10.20955/r.105.223-33.

to prevent serious damage to not only the nation's fiscal health but also its economic health and geopolitical power.

CHAPTER 4: AN UPDATE ON OBESITY TRENDS

The Republican Response in the 2024 Joint Economic Report (Response) outlined the United States' dire fiscal situation. Since January 2021, the total national debt has risen by \$8.5 trillion largely due to outsized spending on Social Security and Medicare and the resulting net interest costs.²⁴⁷ Of the two major mandatory programs, Medicare and Social Security, Medicare has the most unpredictable long-term costs due to changing health trends and variability in the costs of Medicare services. Chapter 4 of the 2024 *Response* concluded that obesity is a primary driver of our medical spending, resulting in between \$8.2 and \$9.1 trillion in excess medical expenditures over the next ten years for those suffering from the disease.²⁴⁸ Finding innovative solutions to improve Americans' health through reductions in obesity rates would have a large impact both on Americans' well-being and our fiscal situation. Since the 2024 Response, there have been a number of legislative and medical developments relating to obesity. This Chapter will overview and analyze these changes, as well as provide recommendations for policymakers on how best to craft fiscally responsible policies to reduce obesity.

Obesity prevalence

Since the release of the 2024 Response, there has been a notable update to a major health survey that measures obesity prevalence, the National Health and Nutrition Examination Survey

²⁴⁷ Bureau of the Fiscal Service, "Monthly Treasury Statement," U.S. Department of the Treasury (January 2025), https://www.fiscal.treasury.gov/files/reportsstatements/mts/mts1224.pdf.

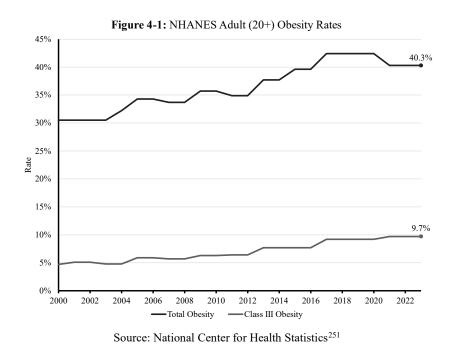
²⁴⁸ Joint Economic Committee Republicans, "Chapter 4: Reaching Fiscal Solutions Through Healthcare Innovation," in *The 2024 Joint Economic Report, Republican Response* (U.S. Congress Joint Economic Committee, 2024), https://www.jec.senate.gov/public/vendor/_accounts/JEC-R/jerchapters/2024JERChapter4.pdf.

(NHANES).²⁴⁹ When the *2024 Response* was published in June 2024, the most recent data available was from 2017–2018 due to a 16-month hiatus in data collection from April 2020 to July 2021, caused by the COVID-19 pandemic. The update in September 2024 expanded the prior data period from 2017–2018 to include data from January 2019–March 2020 as well as published new data from August 2021–August 2023. The most recent data shows a plateauing of the overall adult obesity rate, with the authors of the report stating that "from 2013–2014 through August 2021–August 2023, the age-adjusted prevalence of obesity in adults did not change significantly."²⁵⁰

²⁴⁹ The survey is a nationally representative sample of around 5,000 individuals and uses both interviews and examinations to assess the health status of adults and children in the U.S. The survey provides a more accurate picture of obesity prevalence than other estimates due to the fact that weight and height are observed and not self-reported by individuals. Samuel D. Emmerich, Cheryl D. Fryar, Bryan Stierman, and Cynthia L. Ogden, "Obesity and Severe Obesity Prevalence in Adults: United States, August 2021–August 2023," NCHS Data Brief no. 508 (National Center for Health Statistics, 2024), https://dx.doi.org/10.15620/cdc/159281; National Center for Health Statistics, "About NHANES," https://www.cdc.gov/nchs/nhanes/about/index.html.

²⁵⁰ Emmerich, Fryar, Stierman, and Ogden, "Obesity and Severe Obesity Prevalence in

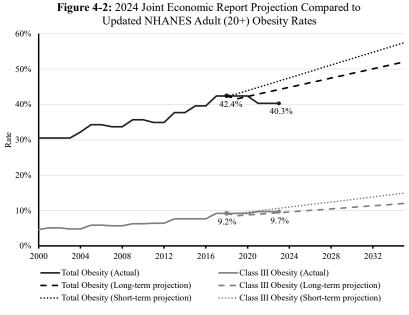
Adults."



This information represents a deviation from prior years' NHANES reports which showed a gradual increase in both the headline and severe obesity rate. Figure 4-1 displays the NHANES data on the overall and severe obesity rate from 2000 to 2023.

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²⁵¹ Cheryl D. Fryar, Margaret D. Carroll, and Joseph Afful, "Prevalence of Overweight, Obesity, and Severe Obesity Among Adults Aged 20 and Over: United States, 1960–1962 Through 2017–2018," NCHS Health E-Stats (National Center for Health Statistics, 2020), Table 1, https://www.cdc.gov/nchs/data/hestat/obesity-adult-17-18/obesity-adult.htm; Bryan Stierman, Joseph Afful, Margaret D. Carroll, et al., "National Health and Nutrition Examination Survey 2017–March 2020 Prepandemic Data Files—Development of Files and Prevalence Estimates for Selected Health Outcomes," *National Health Statistics Reports*, no. 158 (June 2024), Tables 5 and 6, https://doi.org/10.15620/cdc:106273; Emmerich, Fryar, Stierman, and Ogden, "Obesity and Severe Obesity Prevalence in Adults."



Source: National Center for Health Statistics²⁵²

The 2024 Response used a linear regression of the past ten and 31 years of NHANES data to project obesity prevalence through 2034. Given that obesity prevalence had accelerated significantly faster in the prior ten years compared to the prior 31 years, two estimates were made, with the long-term projection representing the lower bound and the short-term projection representing the upper bound. As Figure 4-2 shows, especially in the case of the general obesity rate, there is a pronounced deviation from the earlier trend of obesity rates gradually increasing over the past 30+ years.²⁵³ The change in this trend has led to a considerable amount

²⁵² Fryar, Carroll, and Afful, "Prevalence of Overweight, Obesity, and Severe Obesity," Table 1; Stierman, Afful, Carroll, et al., "National Health and Nutrition Examination Survey 2017–March 2020," Tables 5 and 6; Emmerich, Fryar, Stierman, and Ogden, "Obesity and Severe Obesity Prevalence in Adults."

²⁵³ Joint Economic Committee Republicans, *The 2024 Joint Economic Report, Republican Response* (U.S. Congress Joint Economic Committee, 2024), p. 110, https://sen.gov/LVQNL.

of attention, with some claiming that the U.S. has passed its "peak obesity" and that this change may be due to the increased prevalence of anti-obesity medications (AOMs) such as GLP-1s.²⁵⁴ While this change in the headline obesity rate is certainly a positive development, a more granular look into the data indicates that the plateauing observed may not indicate an improvement in the aggregate health of Americans and that the federal budget is still a long way away from reaping the benefits of this alleged reduction in the obesity rate.

Severe obesity rate

The 2024 Response calculated the outsized impact that severe obesity (or Class 3 obesity), defined as a BMI greater than 40, has on health expenditures. The excess annual medical costs associated with Class 1 (BMI between 30.0 and 34.9) and Class 2 (BMI between 35.0 and 39.9) obesity were estimated to be \$4,043 in 2024, while expenditures for those with Class 3 were more than double at \$9,895.²⁵⁵ Despite comprising less than a quarter of the overall obese population, Class 3 obesity accounted for over 44 percent of the total excess medical expenditures on obesity.²⁵⁶ A significant portion of medical cost savings to both the federal government and private sector could be attributed to a large decline in the severe obesity rate. However, despite a drop in the overall obesity rate, the NHANES survey reports that severe obesity actually increased in 2021–23, rising from 9.2 percent in 2017–March 2020 to 9.7 percent in 2021–23.²⁵⁷ Over the past ten

²⁵⁴ John Burn-Murdoch, "We may have passed peak obesity," *Financial Times*, October 4, 2024, https://www.ft.com/content/21bd0b9c-a3c4-4c7c-bc6e-7bb6c3556a56.

²⁵⁵ Joint Economic Committee Republicans, 2024 Republican Response, 114.

²⁵⁶ Joint Economic Committee Republicans calculations; Joint Economic Committee Republicans, 2024 Republican Response.

²⁵⁷ Data for 2017-2020 only goes through March 2020 due to the onset of the COVID-19 pandemic.

years, the severe obesity rate has risen by 2 percentage points, which represents a significant share of the increase in the growth of excess medical expenditures. Given these factors, it is not clear that even if the trend of the overall obesity rate decreasing was permanent that it would translate to savings for the federal government if at the same time the severe obesity rate continues to rise.

Overall obesity rate

In addition to the rising severe obesity rate, it is unclear whether the recent NHANES data represents a permanent or temporary trend, or whether it is attributable to factors other than improved health. Prior to the pre-COVID impartial data from 2019–March 2020 being combined with 2017–2018 data, the 2017–2018 period had a 42.4 percent obesity rate and a 9.2 percent severe obesity rate.²⁵⁸ After the merging of this data, the obesity rate fell slightly to 41.9 percent, while the severe obesity rate remained at 9.2 percent. The decline of the obesity rate in 2021–2023 to 40.3 percent is notable, but it is not clear this represents a permanent trend. Although the obesity rate has progressively increased over the past 25 years, similar short-term declines have occurred in the past.

Since 1999, there have been two other two-year periods where the obesity rate had fallen: 2007–2008 and 2011–2012.²⁵⁹ Despite

²⁵⁸ Craig M. Hales, Margaret D. Carroll, Cheryl D. Fryar, and Cynthia L. Ogden, "Prevalence of Obesity and Severe Obesity Among Adults: United States, 2017–2018," NCHS Data Brief no. 360 (National Center for Health Statistics, 2020), https://www.cdc.gov/nchs/products/databriefs/db360.htm.

²⁵⁹ Cheryl D. Fryar, Margaret D. Carroll, and Joseph Afful, "Prevalence of Overweight, Obesity, and Severe Obesity Among Adults Aged 20 and Over: United States, 1960–1962 Through 2017–2018," NCHS Health E-Stats (National Center for Health Statistics, 2020), https://www.cdc.gov/nchs/data/hestat/obesity-adult-17-18/obesity-adult.htm.

declines in these periods, the obesity rate has risen by nearly 10 percentage points from 1999 to 2023.²⁶⁰ It cannot be conclusively stated that the decline in 2021–2023 is a permanent trend that represents a change in the aggregate health of the U.S. population. It may instead be attributable to other factors such as increased mortality due to the COVID-19 pandemic or random fluctuations in the data.²⁶¹ Individuals with obesity were disproportionately impacted by the COVID-19 pandemic, and this, along with potential random variations in the sample population, may account for the observed decline in the obesity rate, rather than reflecting actual improvements in individuals' health.²⁶²

GLP-1s and the obesity rate

The theory that GLP-1 usage may have contributed to the most recent decline in obesity prevalence is difficult to state conclusively given the scarcity of data on usage and adherence, as well as granular trends in obesity data. Data on GLP-1 usage is scarce, but estimates from 2024 suggest that 12 percent of adults and 22 percent of individuals who are overweight or obese have used GLP-1s, which represents a significant growth from prior years.²⁶³ Additionally, from 2019 to 2023, the number of prescriptions for GLP-1s is estimated to have more than

²⁶⁰ From 30.5 percent to 40.3 percent.

²⁶¹ Bernard Arulanandam, Hamid Beladi, and Avik Chakrabarti, "Obesity and COVID-19 Mortality Are Correlated," *Scientific Reports* 13, no. 5895 (2023), https://doi.org/10.1038/s41598-023-33093-3.

²⁶² Romil Singh, Sawai Singh Rathore, Hira Khan, Smruti Karale, et al., "Association of Obesity with COVID-19 Severity and Mortality: An Updated Systematic Review, Meta-Analysis, and Meta-Regression," *Frontiers in Endocrinology* 13, no. 780872 (2022), https://doi.org/10.3389/fendo.2022.780872.

²⁶³ KFF, "Poll: 1 in 8 Adults Say They've Taken a GLP-1 Drug, Including 4 in 10 of Those with Diabetes and 1 in 4 of Those with Heart Disease," May 10, 2024, https://www.kff.org/health-costs/press-release/poll-1-in-8-adults-say-theyvetaken-a-glp-1-drug-including-4-in-10-of-those-with-diabetes-and-1-in-4-ofthose-with-heart-disease/.

quadrupled, which implies significant and growing demand for these medications.²⁶⁴ Despite this explosion in demand and usage of these and other AOMs, evidence suggests that certain headwinds impact the potential of these medications.

In a study of Blue Cross Blue Shield patients, only 42 percent of individuals on GLP-1s adhered to the recommended treatment guideline of 12 weeks, while 30 percent of patients stopped usage within a month.²⁶⁵ This falls in line with other research that suggests the overall one-year adherence to AOMs is only around 40 percent.²⁶⁶ While effective for those who adhere to the medication plan, GLP-1s have a much smaller impact on BMI if patients stop taking them too early because a significant amount of weight lost can be regained if patients cease usage before the end of their treatment plan.²⁶⁷ Reasons behind the low adherence are varied and not entirely clear, however, individuals who

²⁶⁴ Elizabeth Williams, Robin Rudowitz, and Clea Bell, "Medicaid Coverage of and Spending on GLP-1s," KFF, November 4, 2024,

https://www.kff.org/medicaid/issue-brief/medicaid-coverage-of-and-spending-on-glp-1s/.

²⁶⁵ Joshua P. Cohen, "58% Of Patients Discontinue Use Of Obesity Meds Before Reaching Meaningful Weight Loss, Study Shows," *Forbes*, June 20, 2024, https://www.forbes.com/sites/joshuacohen/2024/06/20/study-shows-58-ofpatients-discontinue-use-of-obesity-meds-before-reaching-meaningfulweight-loss/.

²⁶⁶ Hamlet Gasoyan, Elizabeth R. Pfoh, Rebecca Schulte, Phuc Le, and Michael B. Rothberg, "Early- and later-stage persistence with antiobesity medications: A retrospective cohort study," *Obesity* 32, no. 3 (2024): 486–93, https://doi.org/10.1002/oby.23952.

²⁶⁷ Mojca Jensterle, Manfredi Rizzo, Martin Haluzík, and Andrej Janež, "Efficacy of GLP-1 RA Approved for Weight Management in Patients with or Without Diabetes: A Narrative Review," *Advances in Therapy* 39, no. 6 (2022): 2452– 67, https://doi.org/10.1007/s12325-022-02153-x; John P. H. Wilding, Rachel L. Batterham, Melanie Davies, Luc F. Van Gaal, et al., "Weight regain and cardiometabolic effects after withdrawal of semaglutide: The STEP 1 trial extension," *Diabetes, Obesity & Metabolism* 24, no. 8 (2022): 1553–64, https://doi.org/10.1111/dom.14725.

experience shorter-term weight loss tend to stay on the medications longer.²⁶⁸ Taken together, these factors suggest the effect of AOMs on the overall obesity rate may be smaller than anticipated due to suboptimal usage of these medications.

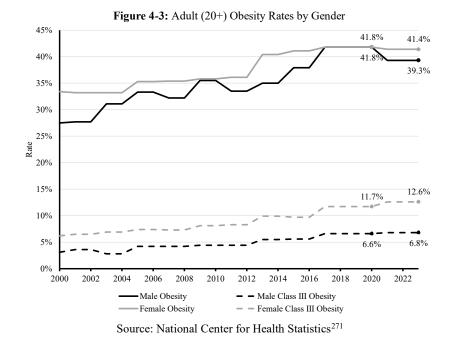
The difference in usage rates between men and women also suggests that GLP-1 usage may not have led to a decline in obesity rates. According to a Kaiser Family Foundation survey, an estimated 5 percent of women are currently using an AOM compared to only 2 percent of men.²⁶⁹ An additional 13 percent of women say they have used an AOM in the past but are not currently compared to only 6 percent of men. This aligns with data from Blue Cross Blue Shield that states that 79 percent of its patients on GLP-1s are women.²⁷⁰ These figures imply that any reductions in the overall obesity rate due to GLP-1s would likely be more pronounced in women. However, the NHANES data suggests that declines in the obesity rate were more strongly driven by men.

https://www.bcbs.com/media/pdf/BHI_Issue_Brief_GLP1_Trends.pdf; Gasoyan, Pfoh, Schulte, Le, and Rothberg, "Early- and later-stage persistence with antiobesity medications."

²⁶⁸ Blue Cross Blue Shield, "Real-World Trends in GLP-1 Treatment Persistence and Prescribing for Weight Management," Blue Health Intelligence Issue Brief (May 2024),

²⁶⁹ Alex Montero, Grace Sparks, Ashley Kirzinger, Isabelle Valdes, and Liz Hamel, "KFF Health Tracking Poll July 2023: The Public's Views Of New Prescription Weight Loss Drugs And Prescription Drug Costs," KFF, August 4, 2023, https://www.kff.org/health-costs/poll-finding/kff-health-trackingpoll-july-2023-the-publics-views-of-new-prescription-weight-loss-drugsand-prescription-drug-costs/.

²⁷⁰ Blue Cross Blue Shield, "Real-World Trends in GLP-1 Treatment Persistence."



From the 2017–2020 period to the 2021–2023 period, the overall obesity rate fell by 2.5 percentage points for men but only 0.4 percentage points for women. At the same time, the severe obesity rate increased by 0.2 percentage points for men and 0.9 percentage points for women. Given that there is no measurable difference between the rate at which men and women adhere to their GLP-1 usage, this may imply that AOMs have had less of an impact on the overall obesity rate and that any declines may instead be attributable to other factors. More data is necessary to make conclusive statements, but this may indicate that the full impact of GLP-1s is not yet reflected in obesity data.

²⁷¹ Fryar, Carroll, and Afful, "Prevalence of Overweight, Obesity, and Severe Obesity," Table 1; Stierman, Afful, Carroll, et al., "National Health and Nutrition Examination Survey 2017–March 2020," Tables 5 and 6; Emmerich, Fryar, Stierman, and Ogden, "Obesity and Severe Obesity Prevalence in Adults."

Changes in GLP-1 usage

The potential for GLP-1 usage to impact obesity rates remains high over the near-to-long term. As previously mentioned, GLP-1s have a significant impact on BMI for those who adhere to their treatment plan, with those without diabetes experiencing an average weight loss ranging from 6.1 percent to 17.4 percent of their body weight while on semaglutides.²⁷² More adults report having heard about these drugs, and demand for them has been so strong that it has outpaced the available supply during the past two years.²⁷³ Despite this, the cost of the drugs is still prohibitively high for most people, with the monthly price ranging from around \$700 to over \$1,000.²⁷⁴ Even for those with insurance, the majority of adults on GLP-1s report that it is somewhat or very difficult to afford them.²⁷⁵ The current high cost of the drugs is likely prohibiting individuals from using them who would otherwise be interested.

²⁷² Jensterle, Rizzo, Haluzík, and Janež, "Efficacy of GLP-1 RA Approved for Weight Management."

²⁷³ Alex Montero, Grace Sparks, Marley Presiado, and Liz Hamel, "KFF Health Tracking Poll May 2024: The Public's Use and Views of GLP-1 Drugs," KFF, May 10, 2024, https://www.kff.org/health-costs/poll-finding/kff-healthtracking-poll-may-2024-the-publics-use-and-views-of-glp-1-drugs/; Virta Health, "Demand for GLP-1s growing faster than expected," Fierce Healthcare, April 1, 2024, https://www.fiercehealthcare.com/sponsored/demand-glp-1s-growing-faster-

https://www.fiercehealthcare.com/sponsored/demand-glp-1s-growing-fasterexpected.

²⁷⁴ Inmaculada Hernandez and Sean D. Sullivan, "Net prices of new antiobesity medications," *Obesity* 32, no. 3 (2024): 472–5, https://doi.org/10.1002/oby.23973; Benedic N. Ippolito and Joseph F. Levy, "Estimating the Cost of New Treatments for Diabetes and Obesity," American Enterprise Institute Economic Perspectives (September 2023), https://www.aei.org/wp-content/uploads/2023/09/Estimating-the-Cost-of-New-Treatments-for-Diabetes-and-Obesity.pdf.

²⁷⁵ Montero, Sparks, Presiado, and Hamel, "KFF Health Tracking Poll May 2024."

Fortunately, progress has been made over the course of the past year, and there are signs that the price of GLP-1s and other derivatives may soon decrease. The shortage of tirzepatide, a type of GLP-1, which had persisted since 2022 was recently declared by the FDA to be "resolved."²⁷⁶ Additionally, semaglutides, which have been on the FDA drug shortage list since March 2022, recently changed from being "currently in shortage" to "available" as of November 2024.²⁷⁷ Competition among pharmaceutical groups to create GLP-1s and other derivatives has also expanded in the past year.²⁷⁸ The first generic GLP-1 recently hit the market and there has been a rapid increase in the development of AOMs to help match growing demand.²⁷⁹ Lower cost versions of GLP-1s, such as those that come in vials rather than injector pens were also introduced in the latter half of 2024.²⁸⁰ These versions have a significantly lower cost of approximately \$400 to \$530 for a month's supply. Increased competition and lower prices should

²⁸⁰ Deidre McPhillips, "Lilly launches lower-price weight loss drug without injector pen," CNN, August 27, 2024, https://www.cnn.com/2024/08/27/health/zepbound-tirzepatide-newvials/index.html.

²⁷⁶ U.S. Food and Drug Administration, "FDA clarifies policies for compounders as national GLP-1 supply begins to stabilize," December 19, 2024, https://www.fda.gov/drugs/drug-safety-and-availability/fda-clarifies-policiescompounders-national-glp-1-supply-begins-stabilize.

²⁷⁷ U.S. Food and Drug Administration, "Current and Resolved Drug Shortages and Discontinuations Reported to FDA," accessed January 2025, https://www.accessdata.fda.gov/scripts/drugshortages/dsp_ActiveIngredient Details.cfm?AI=Semaglutide%20Injection&st=c&tab=tabs-1.

²⁷⁸ Clara Rodriguez Fernandez, "Competitors race to launch GLP-1 drugs amid soaring weight loss demand," OutsourcingPharma, October 31, 2024, https://www.outsourcing-pharma.com/Article/2024/10/31/glp-1-marketheats-up-as-companies-vie-for-next-gen-obesity-drugs/.

²⁷⁹ Nancy Schimelpfening, "Victoza: Generic GLP-1 Drug Similar to Ozempic Now Available," *Healthline*, June 24, 2024, https://www.healthline.com/healthnews/victoza-generic-glp1-drug-available; Jakob Emerson, "Inside the GLP-1 'price war," Becker's Hospital Review, September 23, 2024, https://www.beckershospitalreview.com/pharmacy/inside-the-glp-1-pricewar.html.

lead to GLP-1s being more accessible for a larger population, resulting in greater uptake and potentially lower obesity rates in the long run.

Obesity legislation and recommendations

In the past year, there has also been a major push for the federal government to expand access to GLP-1s. The Treat and Reduce Obesity Act, reintroduced in the 118th Congress, would expand Medicare coverage of behavioral therapy to treat obesity as well as allow for Medicare Part D to cover AOMs for individuals with comorbidity.²⁸¹ one Additionally. least the at Biden Administration proposed a rule change in November 2024 that would expand coverage of AOMs to both Medicare and Medicaid, but this proposed rule has since been suspended.²⁸² Concerns about the growing rates of obesity-which were projected in the 2024 Response to eclipse 50 percent by 2032 in the best-case scenario-have driven lawmakers to more aggressively pursue solutions, but many proposals currently entail a high fiscal cost.

The Congressional Budget Office estimates that the fiscal cost of expanding Medicare Part D to cover AOMs would be about \$35

²⁸¹ Congress.gov, "H.R.4818—118th Congress (2023–2024): Treat and Reduce Obesity Act of 2023," December 27, 2024, https://www.congress.gov/bill/118thcongress/house-bill/4818.

²⁸² The White House, "FACT SHEET: Biden-Harris Administration Takes Latest Step to Lower Prescription Drug Costs by Proposing Expanded Coverage of Anti-Obesity Medications for Americans with Medicare and Medicaid," November 26, 2024, https://bidenwhitehouse.archives.gov/briefingroom/statements-releases/2024/11/26/fact-sheet-biden-harris-administrationtakes-latest-step-to-lower-prescription-drug-costs-by-proposing-expandedcoverage-of-anti-obesity-medications-for-americans-with-medicare-andmedicaid/; The White House, "Regulatory Freeze Pending Review," January 20, 2025, https://www.whitehouse.gov/presidentialactions/2025/01/regulatory-freeze-pending-review/.

billion over the nine-year window from 2026 to 2034.²⁸³ This is largely driven by high direct costs from the prescriptions, with the average cost to the federal government per user estimated to be \$5,600 in 2026.²⁸⁴ Savings per user associated with improved health are limited over the nine-year window following the implementation of the policy, with direct savings starting at \$50 in 2026 and rising to \$650 in 2034.²⁸⁵ Despite these high initial costs to the federal government and limited savings to individuals, CBO does note that there are conditions that could change and reduce the fiscal impact of this policy.

First, competition, the development of generics, or other developments may lead GLP-1s to fall in price. CBO states that prices for AOMs are projected to fall, especially in the second decade following the policy change.²⁸⁶ The introduction of new formulas and versions with different methods of administration may somewhat offset any cost reductions as newer versions tend to be more expensive. However, improved effectiveness of these new technologies, for example through increased adherence, may also result in greater fiscal savings through improved health. This would reduce federal government health outlays and increase labor force participation, which would lead to higher tax receipts.

Even assuming the best-case scenario for price reductions, current policy proposals would still have a net negative fiscal impact on the budget in the ten-year budget window. Cost savings from reductions in obesity through improved health grow gradually as

²⁸³ Congressional Budget Office, How Would Authorizing Medicare to Cover Anti-Obesity Medications Affect the Federal Budget? CBO report (October 8, 2024), https://www.cbo.gov/publication/60441.

²⁸⁴ This estimate excludes increase in Part D premiums. Congressional Budget Office, "How Would Authorizing Medicare," 8.

²⁸⁵ Congressional Budget Office, "How Would Authorizing Medicare," 9.

²⁸⁶ Congressional Budget Office, "How Would Authorizing Medicare," 9.

both more individuals take up these drugs and as their health improves over time. CBO estimates that per-capita Medicare savings as a share of total Medicare spending for individuals on AOMs gradually grows from 0.2 percent in 2026 to 2.8 percent in 2034, which represents \$50 and \$650 per Medicare patient using AOMs, respectively.²⁸⁷ CBO notes that these savings would be higher if individuals use the medications for longer, or if they start using them before receiving them through Medicare.²⁸⁸ A reduction in prices would have a two-fold impact; it both reduces the direct cost to the federal government and grows demand for these medications from individuals who are not yet of Medicare age.

Under CBO's assumptions, even in the most optimal case where there is a high take-up rate, effectiveness of AOMs increases, and prices fall due to increased competition, it is not likely that current proposals for Medicare to cover these drugs would have a positive fiscal impact, at least within a ten-year window. Nevertheless, these medications would undoubtedly improve individuals' health, mortality outcomes, and well-being.

Targeting GLP-1 coverage to specific populations fares better under a cost-benefit analysis than broad coverage. As previously discussed, excess healthcare expenditures for those who are severely obese are more than double the costs of those who are classified as having Class 1 or Class 2 obesity. CBO notes that Medicare spending is substantially higher for those with severe obesity, even when compared to other obese individuals, and that these costs progressively increase as individuals' BMI increases above 40.²⁸⁹ Given that the greatest potential cost savings come

²⁸⁷ Congressional Budget Office, "How Would Authorizing Medicare," 9.

²⁸⁸ Congressional Budget Office, "How Would Authorizing Medicare," 12.

²⁸⁹ Congressional Budget Office, "How Would Authorizing Medicare," 2-3.

from this group, policymakers should consider targeting coverage for those with certain comorbidities and a BMI over 40, at least initially. This would substantially reduce the present cost of the prescription coverage as the severely obese population generally is at most only 25 percent of the overall obese population.²⁹⁰

As outlined in the 2024 Response, reductions in the obesity rate that improve the aggregate health of the U.S. population would have benefits that extend well beyond CBO's ten-year window, including greater employment and lower dependency on health services earlier in life. As CBO mentions in their analysis as well, benefits extend over time as more individuals take up these medications, especially among those not yet on Medicare.²⁹¹ Specifically, they state that "savings also could be larger if greaterthan-expected AOM use among the current non-Medicare population resulted in lower obesity rates and less spending to treat health complications for those people as they aged, became eligible for Medicare, and enrolled in the program."²⁹² For these reasons, policymakers should consider targeting coverage towards a younger population that could have decades' worth of savings if certain comorbidities were avoided. The Medicaid populationwhich is significantly younger than the Medicare population, with almost 75 percent of enrollees being under the age of 65-could be reformed to allow coverage to individuals who would have the highest lifetime health expenditures.²⁹³ A combination of targeting

²⁹⁰ JEC Republicans calculations; Joint Economic Committee Republicans, 2024 Republican Response.

²⁹¹ Congressional Budget Office, "How Would Authorizing Medicare," 12.

²⁹² Congressional Budget Office, "How Would Authorizing Medicare," 12.

²⁹³ Medicaid programs in 13 states currently cover GLP-1s as of August 2024. KFF, "Medicaid Enrollees by Age," KFF State Health Facts,

https://www.kff.org/medicaid/state-indicator/medicaid-enrollees-by-age/; Williams, Rudowitz, and Bell, "Medicaid Coverage of and Spending on GLP-1s."

those who are younger and have a high BMI could lead to large health savings at a fraction of the cost it would take to cover the entire Medicare and Medicaid population. More analysis should be conducted to determine the exact fiscal impact of such policies but targeting anti-obesity policy towards a younger and less healthy population could be a more fiscally responsible way to address the obesity crisis.

CHAPTER 5: THE ECONOMICS OF SKILLED AND UNSKILLED MIGRATION

In Chapter 2 of the Republican Response in the 2024 Joint Economic Report (Response), Joint Economic Committee Republicans outlined the various demographic trends that are adversely impacting the U.S.' fiscal situation, such as the aging population and declining fertility rate.²⁹⁴ In that Chapter, JEC Republicans also outlined policies to address these demographic trends and increase growth, including those that encourage highskilled immigration.²⁹⁵ We concluded that high-skilled immigrants-especially those in science, technology, engineering, and mathematics (STEM) fields-have an outsized economic impact that benefits all Americans, but that this economic potential is held back by various restrictions, such as caps on the number of work visas appropriated in a year. These caps on high-skilled immigration, which limit the U.S.' economic potential, are especially egregious considering the recent influx of low-skilled immigration, which offers less economic benefit and involves substantial tradeoffs.

The dramatic influx of undocumented immigrants since the start of 2021 has spurred considerable debate over the economics of high- and low-skilled immigration. Relatively few low-skilled visas are available, with the number of permanent low-skilled

²⁹⁴ Joint Economic Committee Republicans, "Chapter 2: Demographics and the Deficit," in *The 2024 Joint Economic Report, Republican Response* (U.S. Congress Joint Economic Committee, 2024), https://www.jec.senate.gov/public/vendor/_accounts/JEC-R/jerchapters/2024JERChapter2.pdf.

²⁹⁵ High skilled migration is typically defined as individuals with a university degree or higher or significant technical work experience. Migration Research Hub, "High-skilled migration," https://migrationresearch.com/taxonomies/topicsmigration-processes-migration-forms-high-skilled-migration.

visas being capped at 5,000 per year.²⁹⁶ Despite this, there has been a recent, significant influx of undocumented, low-skilled workers who now comprise a significant portion of the workforce, especially in certain industries.²⁹⁷ This Chapter will overview the aggregate economic impact of high- and low-skilled immigration and recommend policies that maximize the U.S.' economic potential, weighing the tradeoffs that arise from such immigration. While social and cultural considerations are important in any debate on immigration, the intention of this Chapter is to view this debate with a purely economic perspective.

High-skilled migration

The 2024 Response highlighted how it is imperative to pursue policies that can help stabilize the country's skyrocketing debt-to-GDP ratio.²⁹⁸ Two ways to do this are by expanding the tax base and increasing economic growth through technological innovation. One avenue to accomplish both is by taking advantage of one of the U.S.' most valuable privileges—its ability to attract high-skilled foreign individuals who wish to work, study and

²⁹⁶ This figure does not fully capture the growth in the low-skilled labor force as there are a number of temporary and seasonal visa programs that constitute a large number of foreign low-skilled workers, including the H-2A and H-2B visa programs. U.S. Citizenship and Immigration Services, "Temporary (Nonimmigrant) Workers," https://www.uscis.gov/working-in-the-unitedstates/temporary-nonimmigrant-workers; Madeleine Sumption and Demetrios G. Papademetriou, "Legal Immigration Policies for Low-Skilled Foreign Workers," Migration Policy Institute policy brief (April 2013), https://www.migrationpolicy.org/research/legal-immigration-policies-lowskilled-foreign-workers.

²⁹⁷ Steven A. Camarota, "Illegal Immigration and the U.S. Labor Market," prepared testimony for the U.S. House Committee on Education and Workforce, September 13, 2023, p. 6, http:///ducustic.com/org/action/0.12.22.

https://edworkforce.house.gov/uploadedfiles/9.13.23_camarota_testimony_h elp_subcommittee_hearing_on_open_borders_and_workforce.pdf.

²⁹⁸ Joint Economic Committee Republicans, *The 2024 Joint Economic Report, Republican Response* (U.S. Congress Joint Economic Committee, 2024), p. 6, https://sen.gov/LVQNL.

invest here. Skilled immigrants, especially those in STEM fields, lead to outsized economic growth and their contributions result in positive wage and employment outcomes for native-born Americans.²⁹⁹ For example, for every 100 foreign-born workers who receive a STEM degree in the U.S., 262 jobs are created for native-born Americans in part due to the disproportionate rate at which foreign-born workers innovate and create businesses.³⁰⁰ In the case of H-1B visa workers, for every 100 additional H-1B workers, 183 jobs are created for native-born individuals.³⁰¹ Skilled immigrants also have a positive impact on the country's fiscal situation as the net fiscal impact of all high-skilled immigrants with at least a college degree is estimated to be \$13 trillion over the course of their lives largely due to their higher than average incomes leading to greater tax receipts.³⁰² In the near term, it is estimated that granting permanent residency to immigrants with advanced STEM degrees would reduce the deficit by \$129 billion over the next ten years and \$634 billion over the subsequent ten.303

³⁰⁰ Zavodny, "Immigration and American Jobs," 6; Shai Bernstein, Rebecca Diamond, Abhisit Jiranaphawiboon, Timothy McQuade, and Beatriz Pousada, "The Contribution of High Skilled Immigrants to Innovation in the United States," NBER Working Paper no. 30797 (December 2022), https://doi.org/10.2286/w20707; Diome A pouloy, Papienin F. Jange, J. Daniel

https://www.budget.senate.gov/imo/media/doc/rector_testimony_913.pdf.

²⁹⁹ Madeline Zavodny, "Immigration and American Jobs," American Enterprise Institute Working Paper, December 15, 2011, https://www.aei.org/researchproducts/working-paper/immigration-and-american-jobs/.

https://doi.org/10.3386/w30797; Pierre Azoulay, Benjamin F. Jones, J. Daniel Kim, and Javier Miranda, "Immigration and Entrepreneurship in the United States," NBER Working Paper no. 27778 (September 2020), https://doi.org/10.3386/w27778.

³⁰¹ Zavodny, "Immigration and American Jobs."

³⁰² Robert Rector, "The Net Fiscal Costs of Low-skilled and Illegal Immigration for the U.S. Taxpayer," prepared testimony for the U.S. Senate Committee on the Budget, September 13, 2023,

³⁰³ Alex Arnon, Vidisha Chowdhury, Duncan Haystead, Brendan Novak, and Youran Wu, "Budgetary Effects of Granting Green Cards to Immigrants with

Current high-skilled immigration system

Despite the outsized impact that skilled immigrants have on the U.S. economy and fiscal situation, total skilled immigration has remained stagnant due to caps on the number of individuals who can receive work visas and permanent residency.³⁰⁴ The current system presents issues not only by preventing willing and talented individuals from working in the U.S., but also through abuse in existing programs which deteriorates trust in the programs and steals spots from legitimate candidates. The most well-known visa program for skilled immigration, the H-1B, is intended to allow employers to temporarily hire foreign workers for jobs which require specialized knowledge that cannot be otherwise filled by American workers.³⁰⁵ While the program is effective in the aggregate at producing economic benefits,³⁰⁶ it is in need of reform to prevent abuse and ensure that the brightest, most talented individuals are able to work in the U.S.

A September 2008 report from the Department of Homeland Security (DHS) that sampled 246 H-1B petitions found at least one disqualifying violation in 20.7 percent of cases, consisting of fraud in 13.4 percent of cases and technical violations in 7.3 percent.³⁰⁷ Examples of fraud included the use of forged or falsified documents, the use of illegitimate shell companies that did not

Advanced STEM Degrees," Penn Wharton Budget Model, January 18, 2024, https://budgetmodel.wharton.upenn.edu/issues/2024/1/18/budgetary-effects-of-stem-green-cards.

³⁰⁴ U.S. Citizenship and Immigration Services, "H-1B Cap Season," https://www.uscis.gov/working-in-the-united-states/temporary-workers/h-1bspecialty-occupations/h-1b-cap-season.

³⁰⁵ Wage and Hour Division, "H-1B Program," U.S. Department of Labor, https://www.dol.gov/agencies/whd/immigration/h1b.

³⁰⁶ Joint Economic Committee Republicans, 2024 Republican Response, 51–56.

³⁰⁷ U.S. Citizenship and Immigration Services, "H-1B Benefit Fraud & Compliance Assessment" (September 2008), https://lawandborder.com/wpcontent/uploads/2008/10/h-1b-benefit-fraud-assessment.pdf.

extend legitimate job offers to candidates, misrepresentation of job roles or a petitioner's H-1B status, and cases where petitioners or beneficiaries were currently under investigation by ICE, among others.³⁰⁸ Accounting, human resources, sales, and advertising had the highest fraud rate of 42 percent, and managerial, art, and computer professional jobs had the next highest fraud rates between 27 and 33 percent.³⁰⁹ Additionally, fraud was more prevalent among beneficiaries who only had bachelor's degrees compared to those with graduate degrees.³¹⁰

There are several reform proposals to address the fraud and inequity within the H-1B program and ensure that the program is not used as a tool to undercut Americans' wages by importing cheaper labor. The first major reform proposal is eliminating the randomness of the H-1B lottery and replacing it with a pointsbased system that prioritizes giving visas to individuals who have the greatest long-run expected fiscal contributions to the economy. The points-based system would favor individuals who are younger, have higher-level degrees, rank highly in English proficiency, provide an investment for American business creation, are self-employed, or have a high salary offer relative to both other applicants and the prevailing wage in the industry. The program would also be reformed so that employees are selfsponsored rather than employee-sponsored, which would avoid the current issue of beneficiaries having multiple companies

³⁰⁸ U.S. Citizenship and Immigration Services, "H-1B Benefit Fraud & Compliance Assessment," 9–11.

³⁰⁹ U.S. Citizenship and Immigration Services, "H-1B Benefit Fraud & Compliance Assessment," 13.

³¹⁰ U.S. Citizenship and Immigration Services, "H-1B Benefit Fraud & Compliance Assessment," 12.

submit applications on their behalf to boost their chances of receiving a visa.³¹¹

In addition to the proposals intended to strengthen the applicant pool and selection process, a number of proposals have been made to explicitly address fraud. In October 2020, the DHS implemented a number of policies to reduce H-1B fraud, but these rules were rescinded shortly after by the subsequent Administration.³¹² The two interim final rules made a number of changes to the H-1B program. These changes include: tightening the definition of specialty occupations to require applicants to have specialized, rather than generalized, degrees in their field; increasing the DHS's authority to perform workplace inspections to ensure that fraud is not occurring and that H-1B workers are doing the specific job they were hired to do; requiring employers who contract or place their employees at third-party worksites to prove that the employees' work is relevant to their specialization; and increasing the minimum wage required for an H-1B application to be approved.³¹³ The current Administration should

³¹¹ Yekrangi & Associates, "Can Multiple Companies File an H1B for the Same Applicant?" March 17, 2023, https://www.yeklaw.com/blog/2023/march/canmultiple-companies-file-an-h1b-for-the-same-/.

³¹² U.S. Department of Homeland Security, U.S. Citizenship and Immigration Services, "8 CFR Part 214, Strengthening the H-1B Nonimmigrant Visa Classification Program, CIS No. 2658-20 DHS Docket No. USCIS-2020-0018," *Federal Register* 85, no. 196 (October 8, 2020): 63918–65, https://www.govinfo.gov/content/pkg/FR-2020-10-08/pdf/2020-22347.pdf; U.S. Department of Homeland Security, U.S. Citizenship and Immigration Services, "8 CFR Part 214, Strengthening the H-1B Nonimmigrant Visa Classification Program, Implementation of Vacatur, CIS No. 2658-20 DHS Docket No. USCIS-2020-0018," *Federal Register* 86, no. 95 (May 19, 2021): 27027–8, https://www.govinfo.gov/content/pkg/FR-2021-05-19/pdf/2021-10489.pdf.

³¹³ Lars-Erik A. Hjelm, Maka Y. Hutson, Jillie B. Richards, and Casey Christine Higgins, "Trump Administration Introduces Major Changes to H-1B Visas and Employment-Based Green Cards," Akin Gump Strauss Hauer & Feld

consider reimplementing these rules and pursuing further action to clear the program of fraud and ensure that the program's intended goal is achieved.

Reforming current immigration system to retain talent

Policies should ensure that high-skilled workers—who, as outlined in the 2024 Response, make overwhelmingly positive economic contributions that benefit all Americans—are able to do so without onerous burdens or restrictions.³¹⁴ The U.S. stands to benefit from admitting more qualified and legitimate high-skilled individuals, and, at a minimum, lawmakers must ensure that individuals already working or studying in the U.S. are not forced to leave due to poor policy.

The U.S. has a large comparative advantage because the country's research and higher education institutions are highly attractive to talented individuals. The ability for American institutions to attract talent is a valuable resource, but equally important is the country's ability to maintain it. Because of current immigration policies, a significant number of highly educated individuals who would otherwise prefer to work here are leaving the country. For example, from 2012 to 2020, of all international students who graduated in the U.S. with a bachelor's degree, master's degree, or PhD, only 41 percent stayed in the U.S. after graduation. That amounts to around 1.1 million U.S.-educated individuals leaving the U.S.³¹⁵ Retention rates for those with PhDs and master's degrees was stronger at 76 and 51 percent, respectively, but for

LLP, October 22, 2020, https://www.akingump.com/en/insights/alerts/trumpadministration-introduces-major-changes-to-h-1b-visas-and-employmentbased-green-cards.

³¹⁴ Joint Economic Committee Republicans, 2024 Republican Response, 51–56.

³¹⁵ Connor O'Brien, "Most international graduates of American universities ultimately leave the U.S.," Economic Innovation Group Analysis, June 27, 2024, https://eig.org/immigrant-retention-estimates/.

those with bachelor's degrees the rate was only 17 percent. While a number of those who choose to return abroad likely do so for personal reasons, many others do so because of restrictions on work visas and permanent resident green cards.³¹⁶ Excessive restrictions on skilled immigration constrict economic growth potential and push the one million skilled workers on waitlists towards countries like China.³¹⁷ Implementing sensible reforms to the high-skilled immigration system that not only attract the brightest talent but also address fraud will maximize American economic potential and ensure the U.S. does not squander its advantage as the top destination for work and innovation.

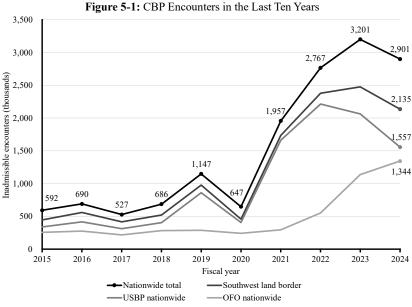
Immigration trends

Onerous restrictions on high-skilled immigration are especially egregious given the recent, rapid influx of low-skilled workers who offer much less clear net economic benefits for the U.S. and native workers. Estimating changes in the number of low-skilled workers in the U.S. driven by undocumented immigration is difficult due to the scarcity of accurate and up-to-date data, but existing data suggests that there has been a significant influx of undocumented migrants over the past four years. From FY2021 to FY2024, there were 10.8 million inadmissible encounters at U.S. borders compared to only around 3 million in the prior four fiscal years.³¹⁸

³¹⁸ U.S. House Committee on Homeland Security, "STARTLING STATS FACTSHEET: Fiscal Year 2024 Ends With Nearly 3 Million Inadmissible Encounters, 10.8 Million Total Encounters Since FY2021," October 24,

³¹⁶ O'Brien, "Most international graduates of American universities ultimately leave the U.S."

³¹⁷ David J. Bier, "Backlog for Skilled Immigrants Tops 1 Million: Over 200,000 Indians Could Die of Old Age While Awaiting Green Cards," Cato Institute Immigration Research and Policy Brief no. 18 (March 30, 2020), https://www.cato.org/publications/immigration-research-policybrief/backlog-skilled-immigrants-tops-1-million-over.



Source: Office of Homeland Security Statistics³¹⁹

Inadmissible aliens are individuals met at ports of entry who are ineligible to enter the U.S. or receive visas due to a number of factors including but not limited to security reasons, lack of proper documentation, criminality, and failure to provide labor certification.³²⁰ Although this figure is not a perfect proxy for the number of migrants who have entered illegally since it only counts individuals who have been apprehended, the increase in the past

^{2024,} https://homeland.house.gov/2024/10/24/startling-stats-factsheet-fiscalyear-2024-ends-with-nearly-3-million-inadmissible-encounters-10-8-milliontotal-encounters-since-fy2021/; U.S. Customs and Border Protection, "Southwest Land Border Encounters,"

https://www.cbp.gov/newsroom/stats/southwest-land-border-encounters. ³¹⁹ Office of Homeland Security Statistics, "CBP Encounters," U.S. Department of

Homeland Security, https://ohss.dhs.gov/khsm/cbp-encounters. ³²⁰ *Inadmissible aliens, U.S. Code 8* (2023), § 1182,

https://www.govinfo.gov/app/details/USCODE-2023-title8/USCODE-2023title8-chap12-subchapII-partII-sec1182.

four years relative to the preceding four years indicates that there has at least been significant growth in the number of individuals attempting to enter without authorization. Many of these individuals likely evaded border enforcement and are currently in the U.S. This is further evidenced by estimates from the U.S. Customs and Border Protection that suggest there are nearly 2 million individuals who have evaded border enforcement since the start of FY2021 and are in the U.S. without any vetting or documentation.³²¹

Determining the exact number of unauthorized immigrants in the country at any given time is difficult, but the most recent estimates from 2022 based on the 2020 census estimate it to be almost 11 million.³²² Of these nearly 11 million individuals, around 40 percent are individuals who overstayed their visas.³²³ More recent estimates that incorporate data from the Census Bureau estimate it may be as high as 12.8 million as of October 2023.³²⁴ Much of the growth in undocumented immigration has been driven by a

³²¹ U.S. House Committee on Homeland Security, "STARTLING STATS FACTSHEET: Biden and Harris' Border Crisis Still Wreaking Havoc—at the Borders and in the Interior," September 23, 2024, https://homeland.house.gov/2024/09/23/startling-stats-factsheet-biden-andharris-border-crisis-still-wreaking-havoc-at-the-borders-and-in-the-interior/.

³²² Bryan Baker and Robert Warren, "Estimates of the Unauthorized Immigrant Population Residing in the United States: January 2018–January 2022," (Office of Homeland Security Statistics, U.S. Department of Homeland Security, April 2024), https://ohss.dhs.gov/sites/default/files/2024-06/2024_0418_ohss_estimates-of-the-unauthorized-immigrant-populationresiding-in-the-united-states-january-2018%25E2%2580%2593january-2022.pdf.

³²³ Center for Migration Studies, "Correcting the Record: False or Misleading Statements on Immigration," July 24, 2024, https://cmsny.org/correctingrecord-false-misleading-statements-on-immigration/.

³²⁴ Steven A. Camarota, "The Cost of Illegal Immigration to Taxpayers," prepared testimony for the U.S. House Committee on the Judiciary, January 11, 2024, https://budget.house.gov/imo/media/doc/the_cost_of_illegal_immigration_to _taxpayers.pdf.

number of policy changes that began in the prior Administration. A multitude of programs, including mass-parole programs and those intended to streamline refugee settlement in the U.S. like the Safe Mobility Initiative, played a part in allowing nearly eight million undocumented migrants at least temporary entry into the U.S. since 2021.³²⁵ Because more granular data on the population of these migrants is unavailable, it is difficult to estimate how many individuals are of working age or currently working in the U.S. However, as of 2022, Pew Research estimates the number of undocumented immigrants in the labor force to be around 8.3 million, or 4.8 percent of the overall labor force.³²⁶

Wage effects

The rapid influx of migrants on top of the existing undocumented population has large implications for the overall economy, especially regarding the labor market and budget. The previous Administration argued that providing citizenship pathways for existing undocumented migrants increases potential economic

³²⁵ U.S. House Committee on the Judiciary, "Inside the Biden-Harris Administration's Open-Borders Alliance with United Nations Bureaucrats," Interim Staff Report (November 1, 2024), https://judiciary.house.gov/sites/evosubsites/republicans-judiciary.house.gov/files/evo-media-document/2024-11-01%20Inside%20the%20Biden-Harris%20Administration%27s%20Open-Borders%20Alliance%20with%20United%20Nations%20Bureaucrats.pdf; U.S. House Committee on Homeland Security, "STARTLING STATS FACTSHEET: Fiscal Year 2024 Ends With Nearly 3 Million Inadmissible Encounters."

³²⁶ Historically, this figure has ranged from 4.4 to 5.4 percent. More recent numbers may be higher given changes in immigration policy. Jeffrey S. Passel and Jens Manuel Krogstad, "What we know about unauthorized immigrants living in the U.S.," Pew Research Center, July 22, 2024, https://www.pewresearch.org/short-reads/2024/07/22/what-we-know-aboutunauthorized-immigrants-living-in-the-us/.

output by increasing the size of the labor force.³²⁷ It is true that increases to the labor force support higher output and lower costs for producers; however, there are a number of tradeoffs that make the net benefits to native-born Americans and the country's fiscal situation much less clear. While undocumented workers are estimated to have made the economy \$321 billion larger and contributed \$25.9 billion in taxes in 2019, it is not clear that this has led to tangible benefits for other working Americans or had a net-positive contribution to the budget.³²⁸ One study estimates that, in 2021, illegal immigrants received \$42 billion in benefits through various welfare programs like SNAP and Medicaid and that public schools spend \$68.1 billion annually on the children of illegal immigrants.³²⁹

Economic studies shows that there is a negative wage effect associated with an increase in the labor supply due to immigration for those who are low-skilled or less educated.³³⁰ Low-skilled individuals, such as those without a high school degree, were most adversely affected by low-skilled immigration, and this effect was especially pronounced for minorities.³³¹ As general economic theory would suggest, this effect was more pronounced for the low-skilled migrants who were close labor substitutes to native

³²⁷ Cecilia Rouse, Lisa Barrow, Kevin Rinz, and Evan Soltas, "The Economic Benefits of Extending Permanent Legal Status to Unauthorized Immigrants," Council of Economic Advisers blog (The White House, September 17, 2021), https://bidenwhitehouse.archives.gov/cea/written-materials/2021/09/17/theeconomic-benefits-of-extending-permanent-legal-status-to-unauthorizedimmigrants/.

³²⁸ Steven A. Camarota, "The Cost of Illegal Immigration to Taxpayers."

³²⁹ Steven A. Camarota, "The Cost of Illegal Immigration to Taxpayers."

³³⁰ National Academies of Sciences, Engineering, and Medicine, *The Economic and Fiscal Consequences of Immigration* (The National Academies Press, 2017), p. 224, http://www.nap.edu/23550.

³³¹ National Academies of Sciences, Engineering, and Medicine, *The Economic and Fiscal Consequences of Immigration*, 224.

workers. The willingness to take a wage lower than the prevailing wage depresses wages for native workers, especially in the short term.³³² As previously stated, the number of undocumented immigrants in the labor force is around 8.3 million or 4.8 percent of the overall labor force. Since the majority of those undocumented individuals are low-skilled, they represent a much higher percentage of the low-skilled labor market, and any effects of low-skilled immigration on wages or job growth are much more pronounced in the low-skilled labor market compared to the overall U.S. labor market.

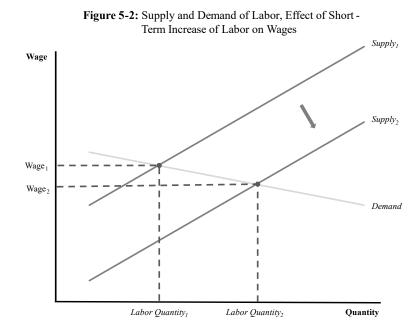


Figure 5-2 illustrates a basic overview of how increases in the supply of labor affect individuals' wages. Barring changes in demand, a positive shift in the supply of labor will result in a reduction in the price paid for labor. This basic theory is backed

³³² National Academies of Sciences, Engineering, and Medicine, *The Economic and Fiscal Consequences of Immigration*, 224–8.

by the academic literature, although in practice the effects of immigration are more complex. The adverse wage effects outlined previously may be more pronounced for certain groups due to the composition of immigration inflows. While the overall effect of low-skilled immigration on the average wage may be dampened due to their labor being a close substitute only in certain industries, the wage impact within those specific sectors is likely to be disproportionately large relative to the change in the average wage. This dynamic applies across all types of immigration; high-skilled immigration, however. unlike low-skilled immigration typically lacks the positive externalities-such as innovation and job creation-that benefit native-born Americans and help offset wage reductions.

Budgetary impact

Debate over the aggregate fiscal impact of immigration has largely centered on whether immigrants' labor and tax contributions outweigh the benefits they receive through various social Educational attainment, which programs. influences an individual's income, and age of arrival, which determines how long an individual will be working and thus contributing taxes, are the most important factors in determining an individual's aggregate fiscal impact. A recent paper from the Manhattan Institute estimated the lifetime impact of immigrants on the federal budget by estimating the net impact of immigrant cohorts based on their age and educational attainment.³³³ The author found that, as a whole, the average new immigrant will reduce the federal budget deficit by around \$10,000 over the course of their lifetime, but that this budget reduction is largely driven by young, educated

³³³ Daniel Di Martino, "The Lifetime Fiscal Impact of Immigrants," Manhattan Institute Report (September 19, 2024), https://manhattan.institute/article/thelifetime-fiscal-impact-of-immigrants.

immigrants.³³⁴ Meanwhile, older and less-skilled migrants have a negative lifetime fiscal impact. In the case of the most successful cohort, individuals arriving the U.S. between the ages of 18 and 24 with a graduate degree, their lifetime fiscal impact is over \$1.1 million.³³⁵ The average immigrant who arrives between the ages of 0 and 54 and attains a graduate degree will have a positive lifetime fiscal impact ranging between \$147,000 and \$1.1 million. This wide range is largely driven by age of arrival, as older immigrants will be in the labor force for a relatively short period and will start receiving various retirement benefits sooner. The average immigrant who arrives between ages 0 and 34 and attains a bachelor's degree also has a positive lifetime fiscal impact. Conversely, for immigrants arriving after the age of 55, there is no level of educational attainment that generates a positive lifetime fiscal impact.³³⁶ Although immigrants receive less in benefits than the average native-born American, the amount of taxes paid is not enough to generate a positive fiscal impact for most cohorts.³³⁷

These results suggest that the U.S. stands to benefit by implementing selective immigration policies that incentivize younger and more educated workers to come to the U.S. while restricting lower-skilled and older immigration. The U.S. has significant economic potential to gain from high-skilled, younger workers, while low-skilled and older immigrants represent a relative fiscal drain. Unfortunately, due to the previous Administration's border policies the opposite has happened, and there has been a large increase in low-skilled immigrants, especially relative to the number of high-skilled immigrants who immigrated at the same time. It is estimated that the cost of the

³³⁴ These figures do not estimate the fiscal impact on state budgets.

³³⁵ Di Martino, "The Lifetime Fiscal Impact of Immigrants," 26.

³³⁶ Di Martino, "The Lifetime Fiscal Impact of Immigrants," 26.

³³⁷ Di Martino, "The Lifetime Fiscal Impact of Immigrants," 25.

current border crisis, which CBO estimates will result in 8.7 million new unlawful immigrants from 2021 to 2026, will cost around \$1.15 trillion over the lifetime of these immigrants.³³⁸ To fully capture the economic advantages of selective immigration, it

is crucial that future policies prioritize the integration of highskilled, younger workers while recognizing the fiscal consequences posed by low-skilled and older immigration.

Housing

Beyond its effects on wages and the budget, immigration impacts other aspects of the economy, including housing costs. A rapid increase in immigration, as has been observed over the past four years, increases the aggregate demand for housing, especially in areas where the immigration is concentrated. Given that the U.S. is facing a housing shortage of over 20 million homes and that, due to a variety of regulatory hurdles, builders are unable to respond quickly to the demand, an increase in the aggregate demand for housing will cause shelter costs to rise, especially in the short term.³³⁹

A paper studying the effects of international immigration on German shelter costs found that a 1 percent increase in international migration within a district was associated with a 3 percent increase in the cost of buying an apartment unit and a 1

- ³³⁹ Joint Economic Committee Republicans, "The HOUSES Act: Addressing the National Housing Shortage by Building on Federal Land" (U.S. Congress Joint Economic Committee, August 2022), https://www.jec.senate.gov/public/ cache/files/efdd0c37-af95-40cd-9125
 - e80f8a11504b/the-houses-act---addressing-the-national-housing-shortage-bybuilding-on-federal-land.pdf; Salim Furth, "Housing Affordability: Trends, Shocks, and State Legislation," prepared testimony for the U.S. Congress Joint Economic Committee, January 17, 2024,
 - $https://www.jec.senate.gov/public/_cache/files/f21b79f5-6b16-45c4-bb6f-7c257ef94c94/furth-testimony.pdf.$

³³⁸ Di Martino, "The Lifetime Fiscal Impact of Immigrants," 1.

percent increase in the cost of renting an apartment.³⁴⁰ As with wages, low-skilled migrants disproportionately impact housing prices, especially on the lower end of the housing market. The increase in apartment prices was nearly double for low-cost housing for which low-skilled immigrants typically have higher demand. Another study from Spain found similar effects, finding that "a one percentage point increase in the immigration rate raises average house sale prices by 3.3%."³⁴¹

Studies in the U.S. on the effect of immigration on housing costs have found similar results. In a study of home and rent data from 282 metropolitan statistical areas (MSAs), a 1 percent rise in the immigrant population relative to an MSA's total population was associated with a 0.8 percent increase in both rent and home prices.³⁴² The authors also found a corresponding 1.6 percent increase in rents and a 9.6 percent increase in home prices in surrounding MSAs as the native-born population moves in response to rising immigration. Reasons for this increased flight of the native-born population in response to a rising immigrant population are theorized to be a response to increased competition in the labor market.³⁴³

³⁴⁰ Umut Unal, Bernd Hayo, and Isil Erol, "The Effect of Immigration on Housing Prices: Evidence from 382 German Districts" (April 8, 2024), https://doi.org/10.2139/ssrn.4325192.

³⁴¹ Rosa Sanchis-Guarner, "Decomposing the Impact of Immigration on House Prices," *Regional Science and Urban Economics* 100 (2023), https://doi.org/10.1016/j.regsciurbeco.2023.103893.

³⁴² Abeba Mussa, Uwaoma G. Nwaogu, and Susan Pozo, "Immigration and Housing: A Spatial Econometric Analysis," *Journal of Housing Economics* 35 (2017): 13–25, https://doi.org/10.1016/j.jhe.2017.01.002.

³⁴³ Randall Filer, "The Effect of Immigrant Arrivals on Migratory Patterns of Native Workers," in *Immigration and the Work Force: Economic Consequences for the United States and Source Areas*, ed. George J. Borjas and Richard B. Freeman (1992): 245–70, https://ideas.repec.org/h/nbr/nberch/6911.html.

Other studies have also found longer-run effects on home prices in response to immigration.³⁴⁴ A 1 percent increase in legal immigration relative to a city's population was found to have increased rent and home prices by around 1 percent.³⁴⁵ The adverse effects of increased immigration on the housing market were even higher than the effects on the labor market, meaning that increased immigration raised shelter costs by magnitudes larger than it suppressed wages for the local population.³⁴⁶ Alleviating restrictions on housing construction would address some negative effects of immigration on shelter costs, but in situations like the U.S.', in which the supply of housing is inflexible, increases in demand for housing will ultimately raise costs.

Conclusion

The U.S. has a significant competitive advantage in part because many individuals desire to work here. The U.S.' immigration system should be reformed and streamlined so that the best and brightest are able to work and expand the economy. Policy changes to the high-skilled immigration system will reduce fraud and admit those who provide the greatest net economic benefit. While such heavy restrictions on skilled immigration have persisted, misguided policies enacted by the prior Administration have led to a substantial influx of low-skilled immigration that has failed to provide sufficient economic benefits to Americans. Policymakers should pursue targeted immigration policies that incentivize high-skilled immigration while limiting the amount of low-skilled immigration. Such policies would positively impact

³⁴⁴ Albert Saiz, "Immigration and Housing Rents in American Cities," *Journal of Urban Economics* 61, no. 2 (2007), https://realestate.wharton.upenn.edu/wp-content/uploads/2017/03/433.pdf.

³⁴⁵ Saiz, "Immigration and Housing Rents in American Cities," 2.

³⁴⁶ Saiz, "Immigration and Housing Rents in American Cities," 27.

the deficit and assist in setting the U.S. on a more sustainable fiscal path.

VIEWS OF RANKING MEMBER HASSAN

I am pleased to share the Joint Economic Committee (JEC) Democratic response to the 2025 Economic Report of the President. The JEC is required by law to submit findings and recommendations in response to the Economic Report of the President (the Report), which is prepared and released each year by the Council of Economic Advisers (CEA). This year's Economic Report was published by the Biden administration in January 2025.

Over the past five years – stemming in large part from the COVID-19 pandemic – the United States economy and economies across the globe faced unprecedented challenges. Emerging from the pandemic, the United States experienced an economic expansion that featured a record 16 million new jobs, 27 straight months of unemployment below 4%, and 21 million new business applications.^{1,2,3} At the same time, the U.S. had a dramatic uptick in consumer prices, with the 12-month inflation rate reaching 9.1% in June of 2022.⁴ Price increases have been particularly acute for essential goods like housing, automobiles, energy, and food.^{5,6} The first chapter of this year's CEA Report explores the economic recovery from the pandemic in great depth.⁷

Recent years have also underscored the ways in which the economy is not working for everyday Americans. Though the cost of essentials has become especially challenging in the last few years, housing, energy bills, child care, health care, and other needs have been too expensive since long before the economic disruptions brought on by the pandemic.

In order to address these challenges, the Biden administration and Congress took critical steps – many through bipartisan

collaboration – to begin to lower costs and lay the groundwork for a stronger economic future. The American Rescue Plan made a range of investments that supported individuals, families, small businesses, and communities. The Infrastructure Investment and Jobs Act and the CHIPS and Science Act are both key bipartisan laws that will continue to shore up U.S. supply chains, boost manufacturing here in America, and lower costs long-term. In addition, the Inflation Reduction Act took on two key challenges: the high cost of health care and energy. All of these laws were developed based on priorities identified by Americans from every area of the country – both immediate needs arising from the pandemic and challenges that families and small businesses had been facing for years.

The rest of this introduction expands on some major legislation passed in recent years and provides examples of how, moving forward, Congress can work in a bipartisan manner to lower costs for families.

Investing in infrastructure to strengthen communities and lower costs

In 2021, Congress passed and the President signed into law the Infrastructure Investment and Jobs Act – also known as the bipartisan infrastructure law. It demonstrates the progress that is possible when constituents speak up about the issues they face and hold their elected officials accountable for finding common ground to address those issues. The law committed federal funds to repair roads and bridges, update port infrastructure, replace outdated water systems, and invest in high-speed internet access throughout every corner of the country – among many other measures.⁸ These new investments will help both people and goods move more easily throughout the country and represent a down-payment on future economic success. The bipartisan

infrastructure law will also drive private-sector growth; a review of economic research on the impact of public infrastructure investment on the broader economy found that every \$100 invested in public infrastructure in the United States on average yields approximately \$17 in private sector benefits.⁹

The law's investments in high-speed internet are particularly important. The people of my state of New Hampshire have made clear time and again how crucial high-speed internet access is for small business owners to grow their footprint, or for kids to do their homework. Studies have backed this up as well; research shows a positive relationship between high-speed internet access and economic growth.¹⁰ Every dollar invested in rural broadband deployment can bring triple or quadruple that amount in broader economic benefits.¹¹

The bipartisan infrastructure law also took steps to strengthen resiliency in the face of climate change and support public health. For instance, the law boosted funding for programs like the National Coastal Resilience Fund, which provides grant funding for projects that prevent coastal erosion through nature-based solutions.¹² These and other investments will help lower costs in the long run by reducing the need for costly reconstruction projects. Nature-based resiliency solutions have been shown in other contexts to save \$7 in avoided damages for every \$1 spent.^{13,14} In addition, the bipartisan infrastructure law increased funding for the Clean Water State Revolving Fund and the Drinking Water State Revolving Fund, which increase access to including by clean drinking water, addressing PFAS contamination.15

Lowering health care costs for families and seniors

The Inflation Reduction Act, passed into law in 2022, took several landmark steps to lower the cost of prescription drugs and health insurance – a challenge that the American people have been speaking out about for years. With this law, Congress and the administration finally took on Big Pharma to allow Medicare to bargain down the price of some of the prescription drugs that cost the most. These negotiations are underway, and starting next year, millions of seniors will save a total of \$1.5 billion through lower out-of-pocket drug costs for medicines that treat things like cancer, high blood pressure, and diabetes.¹⁶ The law is also forecast to save Medicare nearly \$100 billion over 10 years due to lower prices.¹⁷

In addition to cost savings through Medicare price negotiation, the Inflation Reduction Act has already capped the cost of insulin at \$35 per month for seniors, delivered seniors recommended vaccinations for free, placed a \$2,000 cap on out-of-pocket Medicare drug costs, and made other improvements to Medicare coverage that are expected to save 18.7 million seniors an estimated \$7.4 billion in 2025.¹⁸ These provisions have also put pressure on private companies to lower costs for people who are not on Medicare. For instance, under pressure from the administration and Congress, major drug manufacturers pledged in 2023 to match the \$35 insulin cap for all patients.¹⁹

The Inflation Reduction Act also extended a program that makes health insurance plans purchased on Affordable Care Act (ACA) marketplaces more affordable for families and small business owners. The expanded premium support helped more people sign up for ACA coverage, and enrollment increased to a record high of 21.4 million in 2024 and an estimated 24 million in 2025.²⁰ Families who received these credits saved roughly \$700 per year off their premiums, with some saving far more.²¹ These enhanced supports are especially important for small business owners, who often struggle to afford individual plans or provide health insurance to their employees.²² Recent research from the Treasury Department found that self-employed workers and small businesses owners make up nearly a third of all people who are enrolled in marketplace plans.²³

Boosting domestic manufacturing and lowering energy bills

The 2022 bipartisan CHIPS and Science Act – along with the clean energy provisions of the Inflation Reduction Act – is strengthening manufacturing here at home, creating jobs, supporting national security, and helping us outcompete China and the world. Among other measures, the CHIPS and Science Act includes a set of federal grant and loan programs to bolster U.S. production of semiconductors, which are a key input component in cars, computers, smartphones, and countless other consumer, business, and national security products. The clean energy provisions of the Inflation Reduction Act span a range of tax credits, loan programs, and grants that support new clean energy manufacturing and the generation of clean energy. Already, investment in manufacturing facilities is spiking to record highs following the passage of these laws, as battery and microchip manufacturers leverage federal investments to build or expand.²⁴

Crucially, these laws improve national security by helping the United States take on China's market power in industries like semiconductor production and battery manufacturing. Over time, shifting the production of both semiconductors and clean energy inputs from abroad to the United States can ensure that our country is not reliant on adversaries like China for critical materials and can guard against the sort of supply disruptions that contributed to higher prices during the pandemic.²⁵

In addition, the Inflation Reduction Act includes measures that directly lower individuals' energy costs. The law delivers tax cuts to families for a range of clean energy projects, such as installing rooftop solar, purchasing energy-efficient appliances like heat pumps, and making home weatherization updates. All of these can lower households' energy bills while also reducing harmful pollution.²⁶ Outside experts predict that projects like these could altogether save a family nearly \$1,800 per year on their energy bills.²⁷

Congress needs to take further bipartisan action to lower costs

Though the laws described above have begun to spur tangible progress in lowering costs, the U.S. clearly still faces profound affordability challenges that Congress and the Trump administration need to address. To do so, I urge my colleagues and the Trump administration to follow the example of the people of New Hampshire who, when faced with challenges, seek common ground and use common sense to solve them.

There are countless bipartisan proposals that could lower costs for families, grow the economy, and help more Americans thrive. Three examples that I have focused on are:

• Addressing Unfair Hospital Facility Fees: I am working with my colleagues on both sides of the aisle to lower health costs for individuals and save taxpayer dollars through "site-neutral" payments. This would ensure that Medicare pays the same price for routine medical care that is normally administered at a doctor's office regardless of where it is performed. Doing so would save patients money by reducing their out-of-pocket costs for care while also saving billions of taxpayer dollars through fairer prices for Medicare.^{28,29}

- Supporting Innovation: The tax code should incentivize private investment in research and development (R&D), which can strengthen the economy, create good-paying jobs, and help the U.S. outcompete countries like China. That is why I have led the bipartisan push to restore the full tax deduction for companies' R&D investments.³⁰ This pro-growth tax policy would also help U.S. businesses better compete with Chinese firms that currently enjoy far more generous tax deductions for R&D.³¹ My bipartisan legislation with Senator Todd Young (R-IN) was a key part of the bipartisan tax cut package that the House of Representatives passed on a bipartisan basis last year, but it failed to advance in the Senate.
- Lowering Housing and Child Care Costs: The bipartisan • tax cut package also included key measures to help families afford housing and child care. The U.S. faces a significant housing shortage due in part to local zoning restrictions, currently high interest rates, and inadequate public funding.³² Though the Low-Income Housing Tax Credit (LIHTC) provides much-needed federal funds to finance affordable housing construction, there is far more demand for the credits than there is money to go around and the program does not always work well for rural communities in particular.³³ The bipartisan tax cut package discussed above both expanded LIHTC to better meet demand and made important programmatic improvements to the credits.³⁴ This previously agreed-upon bipartisan measure can be a starting point for a future housing bill. That same bipartisan package also expanded the Child Tax

Credit, which can help parents of young children better afford the many expenses that come with raising a family.³⁵ Nearly 16 million kids would benefit from this expanded credit, which would help their parents better cover expenses like diapers, child care, and groceries.³⁶

This year's Democratic response: a compilation of JEC reports under Chairman Heinrich's leadership

The remainder of this report is a compilation of pre-existing public reports issued over the last two years under the leadership of then-Chairman of the Joint Economic Committee, Senator Martin Heinrich. I want to thank Senator Heinrich and the staff of the Joint Economic Committee under his leadership.

MARGARET WOOD HASSAN RANKING MEMBER

CHAPTER 1: STATE AND LOCAL FISCAL RECOVERY Funds: Harnessing Federal Investment for Locally-Led Growth

Published October 2024

In response to economic challenges stemming from the pandemic, the Biden-Harris administration and Congressional Democrats set up the first program in U.S. history to provide flexible fiscal relief directly to small and mid-sized counties and cities, in addition to states, Territories, and Tribal governments.^{37,38} This American Rescue Plan program, known as the "State and Local Fiscal Recovery Funds" (Recovery Funds), gave governments across the country both the resources and the flexibility to invest in local needs.³⁹ The program has brought billions of dollars to areas that previously haven't accessed high levels of federal investment and has provided evidence that, when given access to adequate federal funding, local leaders will make investments that drive the U.S. economy from the ground up.⁴⁰

Public investment is key to economic recovery and growth

Public investments have been shown to stimulate economic activity, raise the productivity of existing physical and human capital, boost private sector output, and increase employment.^{41,42} Research shows a strong association between public investment and higher annual Gross Domestic Product (GDP) and private sector productivity.⁴³ Moreover, a 2021 analysis by the Congressional Budget Office found greater public investment in physical infrastructure in the United States would lead to higher levels of private sector productivity, as well as economic growth that would increase federal revenues and bring down long-run net public spending costs.⁴⁴

Despite these benefits, a 2018 study found that public investment in GDP-adjusted dollars had declined by roughly 40 percent since 1968.⁴⁵ After the Trump administration failed to reverse this trend, the Biden-Harris Recovery Funds helped begin a new era of public investment.

The Trump administration did not invest in long-term solutions for local economies

Before the pandemic, former President Trump repeatedly sought to eliminate federal support for community development, including for rural and farming communities.⁴⁶ For example, the former president's last budget would have cut critical programs for rural communities and farmers, such as funding for rural broadband, transportation, and water infrastructure.⁴⁷ Researchers have also found the Trump administration's trade war harmed U.S. agricultural employment.⁴⁸

The Trump administration also impeded funding for state governments during the pandemic. Top Trump administration officials sought to block funding for states' vaccine rollouts in the fall of 2020, fought against support for state governments shouldering the pandemic response, and delayed signing major legislation that provided Americans with economic relief.^{49,50,51,52,53} Each of these decisions threatened the nation's prospects for a return to normalcy and a strong economic recovery.

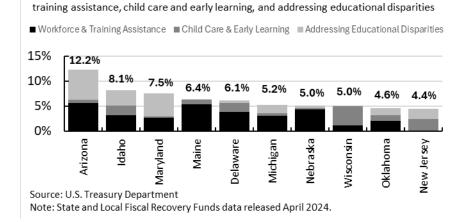
With Recovery Funds, local leaders are laying the groundwork for economic prosperity

While the past administration's policies left many communities without a path for economic growth, states and localities have used the Biden-Harris administration's Recovery Funds to meet constituents' needs. The Joint Economic Committee (JEC) Democrats' analysis of Recovery Fund reporting data shows that—in addition to funding for COVID relief efforts—states and localities directed a significant amount of Recovery Funds to infrastructure, affordable housing, workforce training, education, and child care. Key findings from this analysis are below.

States and localities have used Recovery Funds to invest in education and the workforce

Public investment can enhance Americans' futures by supporting their education and families. Research shows that high-quality and well-funded training programs lead to significantly higher earnings for workers.^{54,55} Investment in early childhood education—including in child care and pre-K—has been shown to have immediate and long-term benefits for the economy.^{56,57,58,59} Moreover, investments to address educational disparities and services for underserved schools can lead to significant societal and economic returns.⁶⁰

Under the Recovery Funds program, states and localities could invest in people's education, skillsets, and child care to assist individuals through projects that went beyond the immediate impacts of the pandemic. The JEC Democrats analyzed funding categories related to investments in workforce and training assistance for under-employed and unemployed individuals, child care and early education support, and in addressing educational disparities. Findings below show that, when compared to other states, Arizona has directed the largest proportion of its funds (12%) and the greatest amount of funding (\$832 million) to child care, education and workforce initiatives. New Mexico is also among the top states to invest the largest fraction of its recovery funds into supporting its workforce.



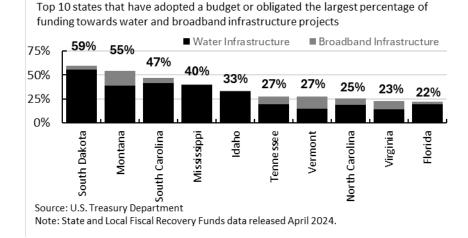
States Have Invested Millions of Dollars to Stregthen Their Workforces

Top 10 states with the highest proportion of Recovery Funds allocated to workforce and

Midwestern and Southern states lead in directing their recovery funds to infrastructure

Many states took the opportunity that the Recovery Funds provided to direct investment to water and broadband infrastructure projects. The ability to address water infrastructure was significant given that low levels of investment in our nation's water infrastructure have led to water crises across the country.⁶¹ Before the Recovery Funds were enacted, the American Society of Civil Engineers' (ASCE) released its 2021 assessment of the country's infrastructure, which graded the nation's drinking water and wastewater infrastructure with a C- and D+, respectively. Similarly, low investment in broadband has led to notable inequality in internet access.^{62,63} As of 2024, an estimated 24 million Americans lack access to broadband internet, with many of these consumers living in rural, tribal, and lower-income communities.⁶⁴ South Dakota and Montana stand out as the two states whose state and local governments have collectively directed more than 50% of their total allocations towards water and broadband infrastructure funding. They are each closely followed by South Carolina, Mississippi, and Idaho, each directing a third of their funding or more to their respective water and broadband infrastructure projects. Most of the funding was directed towards water infrastructure for these states, with South Dakota (55%), South Carolina (42%), Mississippi (39%) and Montana (39%) directing the greatest fraction of funding towards such infrastructure.

Southern and Midwestern States are Directing the Greatest Fraction of their Fiscal Recovery Funds Towards Water and



A range of states and localities are using their funds to build affordable housing

The housing affordability crisis in the United States is driven in large part by inadequate housing supply. The country is facing a shortage of millions of units, particularly in low-cost rentals and starter homes.^{65,66} One of the highest estimates cites a shortage of 7.3 million affordable and available homes for low-income

renters.⁶⁷ States and localities have sought solutions to this shortage through updated zoning and land use regulations, but the scale of the problem also requires significant public funding strategies to build more housing.^{68,69,70,71} Funding for the latter solutions can often be difficult to come by. For this reason, Recovery Funds have proven to be useful for many states and localities, to help finance their affordable housing supply.^{72,73}

Nevada has allocated the greatest proportion of funding to longterm affordable housing initiatives, compared to other states. In total it has directed about 13% of its combined state and municipal allocations towards these initiatives. After Nevada, primarily northeastern states are directing among the largest proportions towards such initiatives: Rhode Island (12%), D.C. (10%), Vermont (9%), and Delaware (9%). Reviewing the total quantity of funding directed to long-term affordable housing initiatives, New Jersey, Texas, and Pennsylvania are among the top five states allocating the greatest amount of funding, following California and Nevada, as shown below.

Top 5 States Leading in Recovery Fund Allocation for Long-Term Affordable Housing		
State	Recovery Funds Directed to Affordable Housing	
California	\$2,563,321,848.75	
Nevada	\$483,510,000.00	
New Jersey	\$333,950,806.50	
Texas	\$297,318,639.41	
Pennsylvania	\$293,149,715.43	
Source: U.S. Treasury Department		
Note: State and Local Fiscal Recovery Funds data released April 2024.		

Further use of state and local recovery funds can unlock more growth in the economy

The Biden-Harris administration gave local leaders the opportunity to lay the foundation for economic development and

community wellbeing with the State and Local Fiscal Recovery Fund program, and leaders took advantage of this opportunity.

However, states and local governments still have a significant amount of funds outstanding. According to law, they must obligate all Recovery Funds by December 31st, 2024, or risk losing those funds.⁷⁴ Obligations are distinct from spending—recipients have until December 2026 to spend their Recovery Funds. Obligations can take the form of state and municipal governments entering into contracts with subrecipients to carry out portions of a project.⁷⁵ States can also obligate funds by directing funding to municipalities as subrecipients. Subrecipients of funding are not subject to the December 31st, 2024 deadline for obligations. States and municipalities can track their outstanding obligations using downloadable data on the Treasury website.⁷⁶

Recovery Funds are flexible, so localities and states can use funding to support a variety of needs and initiatives, as well as matching requirements for other projects. Resources to support state and local leaders in determining eligible projects can be found across advocates' websites, such as the National League of Cities and the National Association of Counties.^{77,78}

State and Local Fiscal Recovery Funds have laid the groundwork for future growth. With full obligation of these funds, in addition to other Democratically-led laws including the Inflation Reduction Act, the Bipartisan Infrastructure Law, and CHIPS and Science Act, localities are able to rebuild for the future. Through these initiatives, Democrats have worked to ensure that the national economic comeback left no state, town, county, or Tribe behind.

CHAPTER 2: THE BIDEN-HARRIS BIPARTISAN INFRASTRUCTURE LAW IS BUILDING A NEW FOUNDATION FOR ECONOMIC GROWTH

Published October 2024

With the passage of the Bipartisan Infrastructure Law (BIL), the Biden-Harris administration is investing in much-needed infrastructure projects across the country. Whether by making roads safer, renovating bridges, or providing the funding security that allows communities to plan out large projects, the BIL is building a new foundation for equitable economic growth across the country.^{79,80}

Federal spending on capital for infrastructure projects was declining prior to the BIL

- Since the 1950s, public spending on transportation and water infrastructure rose steadily. However, spending on these forms of infrastructure began to decline in the early 2000s.⁸¹
- Seeing that communities across the United States were struggling to update their infrastructure, Democrats worked throughout the Obama administration to implement funding and pass legislation that would ignite long-term infrastructure investment, but often faced Republican-led challenges to achieving that goal.^{82,83,84,85,86,87,88,89,90}
- Former President Trump repeatedly failed to deliver on his infrastructure plan. During the Biden-Harris administration he attempted to block the bipartisan infrastructure deal.^{91,92,93}
- Despite this trend of Republican opposition, Democrats were able to pass the BIL with votes from both parties.⁹⁴

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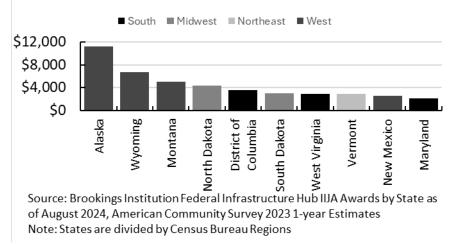
Within the \$1.2 trillion in authorized funding for U.S. infrastructure, the law includes:

- \$110 billion to repair bridges and roads;
- \$65 billion for power infrastructure and deployment of clean energy technology;
- \$65 billion for enhancing access to high-speed internet;
- and \$55 billion for clean drinking water infrastructure.^{95,96}

Communities are getting the infrastructure investment they need

- BIL funding is going to states and communities that are most in need, as states with infrastructure in the poorest condition have received over \$1,000 more in funding per person than states with infrastructure in better condition.⁹⁷
- Analysis from the U.S. Treasury Department shows that, following the BIL's enactment, lower-income states were just as likely to receive infrastructure funding as higher-income states.⁹⁸
 - This is in contrast to an analysis of 2019 infrastructure investments, where wealthier states had higher per-person spending on infrastructure.
- The Biden-Harris administration has also prioritized rural America for BIL investments. The law has provided \$50 billion towards investment in water and wastewater infrastructure for rural areas along with \$4.58 billion in Rural Area Formula Grants to 1,300 rural transit systems.⁹⁹

BIL Investments Are Reaching All Parts of the Country BIL funding per capita as of August 2024, top 10 states



Federal BIL investments are advancing significant infrastructure projects

The BIL is supporting large-scale projects across the <u>country</u>, with state and local governments leveraging federal investments to help cover large upfront costs for infrastructure projects.¹⁰⁰

- In <u>New Mexico</u>, over \$222 million from the BIL is expediting the construction of the Eastern New Mexico Rural Water System, providing clean water to 70,000 people. This investment builds on JEC Chairman Heinrich's work to <u>protect</u> New Mexicans' access to clean water.^{101,102}
- The BIL invested <u>\$1.1 billion</u> in the Raleigh to Richmond Innovating <u>Rail</u> Program to extend the train line from Raleigh to Wake Forest, <u>North Carolina</u> and build related infrastructure.^{103,104,105}
- BIL investments are spread across <u>Nevada</u>, from a \$25 million infusion to help connect U.S. Highway 50 with I-80 for the Victory Project in <u>Fernley</u>, to up to \$3 billion in

funding for the Brightline West High-Speed Rail <u>Project</u>, <u>connecting</u> Las Vegas to Southern California.^{106,107,108,109}

BIL investments are creating more well-paying American jobs

The BIL is investing in American workers by creating new jobs and supporting worker training.

- Moody's Analytics estimated the BIL will <u>create</u> more than 800,000 jobs at peak impact.¹¹⁰
- An estimated <u>\$490 billion</u> of BIL authorized funding is available for workforce development programs, including on-the-job training, apprenticeships, and technical education.¹¹¹
- Under the BIL, covered construction contracts must <u>follow</u> Davis-Bacon labor standards and fair wage provisions, ensuring workers receive higher wages and labor protections.¹¹²

CHAPTER 3: THE MANUFACTURING RENAISSANCE THAT WILL DRIVE THE ECONOMY OF THE FUTURE

Published April 2024

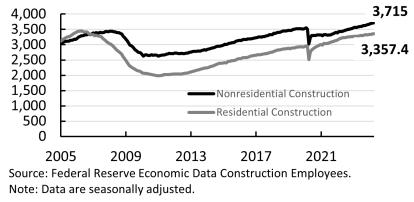
As of February 2024, annual investment in new manufacturing facilities hit nearly \$225 billion dollars, a record high even after adjusting for inflation. This spike in private investment is the direct result of bipartisan investments in infrastructure and semiconductor production and Democrats' bold action to invest in American-made clean energy and manufacturing. This made-in-America manufacturing boom is already supporting jobs and communities across the country.

Democrats passed supportive policies that have directly led to record levels of manufacturing investment, even after adjusting for inflation

- The Inflation Reduction Act (IRA), Bipartisan Infrastructure Law (BIL), and CHIPS and Science Act (CHIPS Act) are driving investment in domestic manufacturing of things like semiconductors, electric vehicle (EV) batteries, and wind turbines.
- This boost in support has led to a boom in manufacturing construction investment. As of February 2024, there was nearly \$223 billion in inflation-adjusted annual U.S. manufacturing construction investment, more than twice the investment in February 2020 or January 2021.

Construction Employment Has Risen Steadily Under Biden

Monthly construction jobs by type, thousands



- The U.S. Treasury Department reported on the initial increase in real total manufacturing construction as of April 2023, and spending has continued to rise in the months that followed.¹¹³
- Though the previous president often bragged about reshoring American manufacturing, annual investment actually fell during his time in office.¹¹⁴

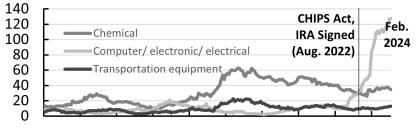
The CHIPS Act and the IRA's targeted investments in science and technology continue to drive manufacturing investment in the electronics and battery industries

- With the promise of CHIPS Act support, Intel plans to invest over \$100 billion in semiconductor manufacturing, research, and development by expanding their facilities and creating new jobs in places like Oregon, Arizona, New Mexico, and Ohio.¹¹⁵
 - Other chipmakers have announced major CHIPS Act investments across the country.^{116,117}

- The IRA also included a significant investment in U.S. battery production to support demand for EVs and other clean power applications.¹¹⁸
- These investments in computer, electronic, and electrical components have driven nearly the entire increase in manufacturing construction spending, clearly showing how supportive policies backed by Democrats have driven the U.S. manufacturing boom.

Computer, Electronic, & Electrical Construction Drives Overall Spending

Monthly spending in billions of Feb. 2024 U.S. dollars, 2005-2024



2005 2007 2009 2011 2013 2015 2017 2019 2021 2023 Source: U.S. Census Sector Construction Spendingusing FRED Price Index of Construction Materials Note: Data are seasonally adjusted and at an annualized rate

- Note: Data are seasonally adjusted and at an annualized rate
 - The CHIPS Act also authorized \$800 million for vital infrastructure upgrades to Sandia and Los Alamos National Laboratories in New Mexico to boost scientific and technological innovation.¹¹⁹

The Biden administration ensures that manufacturing investment legislation benefits low-income communities and workers to create good jobs for more Americans

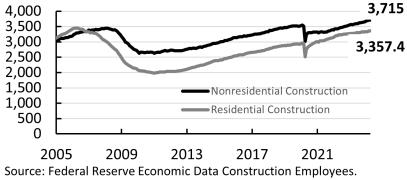
- Due to legislative incentives aimed at helping low-income communities, economically distressed counties have received a higher share of investments in clean energy, semiconductors, electronics, and other industries.¹²⁰
- The CHIPS Act requires companies applying for funds of \$150 million or more to plan for affordable, high-quality child care for their workers and gives preference to companies that provide workforce training and education investments.¹²¹
- The IRA supports workers by providing increased clean energy tax credits for projects that pay prevailing wages, use registered apprentices and are located in communities that currently or recently relied on fossil fuels to support their local economies.¹²²

These investments also support continued strength in construction employment, which is rising steadily after years of slow growth following the Great Recession

• Construction employment has grown steadily since President Biden came into office, especially in the nonresidential sector, which covers people who build factories and other commercial structures.

Construction Employment Has Risen Steadily Under Biden

Monthly construction jobs by type, thousands



Note: Data are seasonally adjusted.

• This broad job growth points to both the strong overall labor market and the boost in employment tied to booming manufacturing construction investment.

The manufacturing investment boom is expected to continue as the Biden administration continues to provide support of funding through the CHIPS Act and IRA

- While the economy has already added nearly 800,000 manufacturing jobs during President Biden's tenure, this number is expected to increase as these new facilities open up and start production.
- As part of the CHIPS Act, the Biden administration recently announced an estimated \$5 billion investment to support research and development in advanced computer chips, including funding for the National Semiconductor Technology Center.¹²³
- The Biden administration's third CHIPS Act award of \$1.5 billion will help GlobalFoundries build a computer chip

fabrication facility in New York and expand and upgrade two of its other facilities.¹²⁴

As more CHIPS Act funding is awarded along with ongoing IRA and BIL funding, manufacturing investment will continue to grow, creating more jobs people can raise a family on while boosting economic growth.

CHAPTER 4: THANKS TO DEMOCRATS, AMERICANS ARE PAYING LESS FOR PRESCRIPTION DRUGS AND HEALTH INSURANCE

Published August 2024

Last year, Democrats took action to lower drug costs and bring down health insurance premiums by passing the Inflation Reduction Act (IRA). American households are already feeling the benefits by paying less, with additional savings coming in 2025 and beyond thanks to health policies passed by Democrats. Additional actions by drug companies—following the lead of Congress and President Biden—have also lowered prescription drug and medical device costs for even more Americans.

Older Americans are paying less for prescription drugs because of Democrats' Inflation Reduction Act

America's seniors are saving on prescription drugs thanks to many provisions of the Inflation Reduction Act that have already gone into effect, with more savings on the way.

- Insulin copays are now capped at \$35 a month for Medicare enrollees.
 - About 1.5 million seniors would have saved an average of \$500 each if this cap had been in effect in 2020.¹²⁵
- Drug companies must now pay a rebate when the prices they charge Medicare rise faster than inflation.
 - In 2023, 47 prescription drugs had inflation rebates under Medicare Part B, meaning that millions of Medicare enrollees saved as much as \$618 per average dose of these 47 drugs used to treat conditions like cancer, heart conditions, and infections in a given quarter.¹²⁶

- Thanks to Democrats in Congress and President Biden, for the first time ever Medicare can now bargain down the price of certain high-cost prescription drugs.
 - Medicare enrollees paid \$3.4 billion in out-of-pocket costs in 2022 for the first 10 drugs selected for drug price negotiations.¹²⁷ Patients will likely see lower prices on these drugs used to treat conditions like diabetes, heart failure, and blood clots in 2026, with additional medicines subject to negotiation in future years.
- Annual out-of-pocket prescription drug costs will be capped at \$2,000 for Medicare enrollees starting in 2025.
 - This provision is expected to help nearly 19 million seniors covered by Medicare Part D save an average of \$400 per year when combined with other IRA provisions.^{128,129}
 - About 857,000 women covered by Medicare Part D will save \$1,000 or more.¹³⁰

Many Americans are paying less for health insurance and seeing more covered benefits because of Democrats' IRA and the American Rescue Plan

Americans are accessing more affordable and expanded coverage options for health insurance.

- Enhanced premium tax credits that make health insurance plans purchased on the Affordable Care Act (ACA) marketplaces significantly more affordable were extended for an additional three years, through 2025.
- ACA marketplace enrollment has increased every year since 2021, largely driven by these refundable tax credits.¹³¹
 - A record of over 21 million people enrolled in an ACA marketplace plan for 2024.¹³²

- These people are saving on average \$800 per year on their health insurance premiums.¹³³
- Medicaid now provides expanded postpartum coverage in 30 states and the District of Columbia, thanks to Democrats' passage of the American Rescue Plan.¹³⁴
 - About 462,000 women in these states can receive comprehensive coverage after pregnancy for 12 months.

Prescription drug costs have been lowered for even more Americans, while medical devices have become more accessible

Thanks to political pressure from Democrats and actions by the Biden administration, private drug companies have lowered costs for some medications and medical devices such as insulin, inhalers, and hearing aids for Americans not covered by public insurance plans.

- Three leading pharmaceutical companies announced price caps and savings programs last year following President Biden's call for lowering the cost of insulin to \$35 for all Americans in his State of the Union address.^{135,136,137,138,139}
 - Many Americans can now get insulin for as little as \$35 a month even if they are not covered by Medicare. These three companies have also lowered prices for many of their other insulin products.¹⁴⁰
- Following scrutiny by Congress, three of the four leading inhaler manufacturers capped out-of-pocket costs for inhalers used to treat asthma and chronic lung disease at \$35.^{141,142}
- Hearing aids are now available over the counter without a prescription or exam for many adults because of a rule issued by the Food and Drug Administration.

 Many of the 30 million Americans with hearing loss could save as much as \$3,000 per pair of hearing aids.¹⁴³

While Democrats are taking steps to lower prescription drug costs and insurance premiums, Republicans <u>support</u> rolling back the cost-saving measures in the IRA, cutting funding for Medicare and Medicaid, and rolling back the Affordable Care Act¹⁴⁴

Wealthy drug companies are also fighting the Biden administration in court as they try to keep prices high and hold onto their sky-high profit margins.¹⁴⁵ Combined, these actions would raise prescription drug costs and jeopardize affordable health insurance coverage for millions of American households.

CHAPTER 5: DIVERGING TRENDS: PRIME-AGE WOMEN'S LFPR CONTINUES TO RISE, BUT MOMS WITH YOUNG KIDS ARE FEELING THE EFFECTS OF THE CHILD CARE FUNDING CLIFF

Published December 2024

Throughout 2023, both policymakers and advocates warned that the labor force participation rate (LFPR) for women was about to drop. The main reason? Much of the American Rescue Plan's (ARP) child care funding was slated to expire in September 2023.¹⁴⁶ This "child care funding cliff" was expected to put 3.2 million children at risk of losing child care, which would subsequently cause many women to drop out of the workforce to take care of their kids.¹⁴⁷

Instead, the LFPR for prime-age women (ages 25 to 54) continued to rise after the funds expired and reached a record high of 78.4% in August 2024.¹⁴⁸ While at first glance this challenges the hypothesis around the funding cliff and women's LFPR, a closer look at the data by the JEC Dems finds a more nuanced conclusion. Among all prime-age women, those whose youngest kid is under age five saw both the largest increase in LFPR while the child care funds were available, and the largest decrease once the funds expired. The overall increase in participation for prime-age women over the last year is hiding that many mothers of young kids have dropped out of the labor force, likely in part due to child care concerns. Though a strong economy, changing demographics, and workplace polices like telework can support participation for prime-age women, these trends demonstrate the need for continued investments in the care economy that support mothers' ability to work.

Before the expiration of ARP child care funding, LFPRs largely increased across the board with prime-age women with young kids seeing the largest uptick

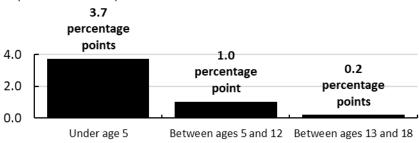
To get a better sense of how ARP child care funding affected LFPR, JEC staff compared how civilian participation rates changed between September 2019 and September 2023 for primeage women by marital status, parental status, youngest child's age, educational attainment, race and ethnicity, and birthplace.

The analysis finds statistically significant jumps in the LFPR for all but one group of prime-age women, with particularly large jumps for women whose youngest child is under age five (+3.7 percentage points); Asian American, Native Hawaiian, and Pacific Islander women (+3.2 percentage points); foreign-born women (+3.0 percentage points); Latinas (2.8 percentage points); and married women (+2.3 percentage points). Unmarried women were the only group to see a decline in LFPR.

Child care funding from the ARP is proven to have helped boost the LFPR for mothers of young children—the most likely group to need child care.¹⁴⁹ It is likely this funding contributed to this increase for prime-age women specifically. Women whose youngest child is between ages 5 and 12 (+1.0 percentage point) and women whose youngest child is between ages 13 and 18 (+0.2 percentage points) all saw increases of a smaller magnitude in LFPR than women with younger children (+3.7 percentage points). Prime-age women whose youngest child is under five saw the largest jump in LFPR in the four years preceding the expiration of funding and saw the three-month moving average of their participation rate peak in October 2023.

Prime-Age Women With Young Children Saw the Largest Jump in LFPR Among Mothers In the Four Years Leading Up to the Funding Cliff

Percentage point change in LFPR for prime-age women by age of youngest child, September 2019 to September 2023



Source: JEC analysis of Current Population Survey basic monthly samples Note: Three-month rolling averages are used in absence of seasonally-adjusted data. Calculations are for civilians.

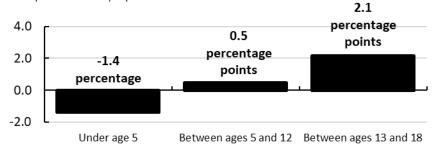
Despite gains leading up to it, prime-age women with young children saw the largest drop in labor force participation after the expiration of ARP child care funding

Despite these gains leading up to the expiration of funding, JEC analysis shows some groups of prime-age women have seen a decline in LFPR between September 2023 and October 2024. While the overall LFPR for prime-age women increased over this period, there were statistically significant declines among women whose youngest child is under age five (-1.4 percentage points), Native American women (-1.0 percentage points), and Latinas (-0.5 percentage points).

After seeing the largest gains between 2019 and 2023, women whose youngest child is under age five have seen the largest percentage point decline in LFPR among prime-age women from the expiration of funding through October 2024. Women whose youngest child is between 13 and 18 saw the largest increase among prime-age mothers (+2.1 percentage points) while women whose youngest child is between ages 5 and 12 saw only a slight uptick (+0.5 percentage points).

Prime-Age Women With Young Children Saw Largest Decline in LFPR Among Mothers Since the Funding Cliff

Percentage point change in LFPR for prime-age women by age of youngest child and parental status, September 2023 and October 2024



Source: JEC analysis of Current Population Survey basic monthly samples Note: Three-month rolling averages are used in absence of seasonally-adjusted data. Calculations are for civilians.

While this analysis is not causal, it is striking that the rate declines for the group who was most likely to have benefitted from the ARP's child care funds. Recent research also shows that LFPR for mothers of young children fell by less in the 11 states plus Washington, D.C. that implemented "stopgap funding" to make up for the expiring federal funds than in states that did not.¹⁵⁰ Together, this points to the important role that the ARP child care stabilization funds played in boosting prime-age women's LFPR and the harms that have occurred since their expiration.

Remote work, strong wage growth, industry changes, and increased immigration likely helped drive up overall prime-age women's labor force participation

Despite this worrying trend for women with young children, it is still worth exploring the reasons why overall prime-age women's labor force participation hit record highs in August 2024. While it is still too early to have definitive answers, explanations include:

Increased Telework

Telework helped many women stay in the labor force during the pandemic and continues to do so by providing important flexibility, especially in absence of reliable or affordable child care.¹⁵¹ Data show women with young children have a higher use of telework than women with older children. Additionally, women with children are most likely to telework, followed by women with no children, men with children, and men with no children, respectively.^{152,153} Despite potential consequences for mothers who work and provide care simultaneously, remote work likely helped drive up the overall LFPR.^{154,155}

Recent Wage Growth

Wage growth also likely contributed to higher women's LFPR by making jobs more valuable for those who were otherwise outside of the work force. While middle-income wages grew at a 0.7% annualized rate between 2019 and 2023, wages for women grew by 0.9%, and wages for mothers grew by an even faster 1.7%.¹⁵⁶ This wage growth likely helped working mothers transition into high-paying jobs by leveraging the "great resignation"— unprecedented job turnover after the pandemic—while enticing others to enter the labor force.¹⁵⁷

Higher Immigration

Research from the Federal Reserve Bank of Kansas City suggests that foreign-born women have helped drive the increase in postpandemic prime-age women's LFPR—consistent with JEC analysis.¹⁵⁸ The report finds that almost 1.3 million of the nearly 10 million foreign-born, prime-age women in the labor force in February 2024 had immigrated to the United States in 2020 or later.

Despite a recent record-high LFPR for prime-age women, the United States still has important work to do to support women in the labor force

Though the overall trend of rising participation among prime-age women is important, the United States still falls below its OECD peers. In 2022, the United States ranked 30 of 38 OECD countries for prime-age women's LFPR. Additionally, while the United States ranked sixth highest in women's LFPR among the 22 OECD countries in 1990, it dropped to 17th by 2010.¹⁵⁹ Researchers estimate that other OECD nations that have implemented various family-friendly policies—such as paid family leave, child care, and flexible work schedules—have seen higher rates of women's LFPR relative to the United States.¹⁶⁰ The United States is losing out on further economic growth as a direct consequence of its weak family policies.¹⁶¹

The United States must also improve pay and conditions in the jobs that tend to be held by women. Women make up a significant share of part-time workers.¹⁶² While flexibility and shorter hours make part-time work appealing, part-time jobs often pay too-low wages, come with unpredictable schedules, and have only limited, if any, employer-provided benefits. In addition, women are often clustered in low-paying jobs: a 2023 report found that women represent 64.1% of the workforce in the 40 lowest-paying jobs.¹⁶³ This disparity is even more stark for women of color and is despite women is increasing educational attainment. While getting more women in the labor force is important, the United States must do more to make these jobs pay well.

Federal investments in child care remain vital for the industry and women's labor force participation

A lack of sustained funding for the child care industry has wide ranging ramifications for the economy. Parents of young children who lack access to child care are forced to take unpaid leave, cut their work hours, not look for a job, or leave or lose a job as a result.¹⁶⁴ Inadequate child care is costing the economy \$122 billion in lost earnings, productivity, and revenue every year.¹⁶⁵ Advocacy organizations are calling for Congress to invest \$16 billion in emergency child care funding to help states continue existing child care programs.¹⁶⁶ By expanding family-friendly policies, the federal government can help boost LFPR for women with young children once again.¹⁶⁷

CHAPTER 6: BROADENING REGISTERED APPRENTICESHIPS CAN BOOST AMERICA'S WORKFORCE AND GROW THE MIDDLE CLASS

Published September 2024

Registered Apprenticeships (RAs) are partnerships between employers, unions, educational institutions, and the federal government that provide paid employment, on-the-job training, and classroom learning. These programs offer clear pathways to careers that do not require a traditional four-year college degree, yet provide wages that can support families, all while providing a 44.3% return on investment for employers.¹⁶⁸ By expanding, strengthening, and diversifying different career paths, the United States can strengthen worker pipelines for industries facing high demand or workforce shortages. Democrats in Congress and the Biden-Harris administration are working to accomplish this through investments in infrastructure and the clean energy transition.

Registered apprenticeships have benefits for workers and employers

The U.S. Department of Labor (DOL) helps ensure apprentices in RA programs have worker safety protections and are adequately paid using a schedule that progressively increases their wages as they go through the program.¹⁶⁹ The entry wage is required to be at the federal minimum wage, or even higher in some cases if required by another law or collective bargaining agreement. Apprentices earn wages while training and studies show their wage growth typically outpaces that of comparable workers.¹⁷⁰ RA programs also typically result in the worker staying on with the employer, often leading to a position in a high-demand industry.^{171,172} One recent study found that, on average, workers

who completed an apprenticeship saw a 49% increase in their earnings.¹⁷³ These positions also help connect them with unionized positions in the future, which generally entail higher wages, more workplace benefits, and more reliable work schedules.^{174,175} RA programs can also help employ women in male-dominated industries, like skilled trades.¹⁷⁶

Employers benefit from RA programs both directly through higher output and reduced hiring costs and indirectly through higher employee retention, an improved talent pipeline, and better company culture.¹⁷⁷ One study found that over the course of five years after an apprentice completes their training, these direct and indirect benefits amount to about \$35,728 per apprentice, representing a 44.3% return on investment.¹⁷⁸ Another study similarly found employers' return on investment in an Industrial Manufacturing Technician RA was 48%.¹⁷⁹

Earnings Increase After RA by Apprentice Characteristics, 2022		
Apprentice Characteristic	Earnings Increase, One Year Before RA to	
	One Year After	
Men	43%	
Women	65%	
Black	37%	
Hispanic	50%	
White	45%	
Other race	86%	
Construction industry	22%	
Health Care industry	97%	
IT industry	174%	
Manufacturing industry	24%	
Incumbent worker	17%	
New worker	126%	
All Apprentices	49%	
Source: Urban Institute analysis of U.S. Department of Labor data.		

Expanding registered apprenticeships to industries like health care and child care can help address persistent workforce shortages

The United States is facing a nationwide health care worker shortage, especially in rural communities.¹⁸⁰ Yet less than 3.2% of active apprentices that list their industries are in the health care and social assistance industry, and many within the health care industry are in low-wage occupations.^{181,182,183} Expanding health care RA programs can help address worker shortages and open opportunities for more apprentices to work in high-wage health care occupations. RAs can also help address persistent workforce shortages in child care by training or upskilling workers.¹⁸⁴

Because of persistently low wages, limited wage growth, and slow recovery from the pandemic, there are expected to be over 160,000 child care job openings annually over the next decade.^{185,186} Only approximately 13% of active apprentices that list their industries are in the educational services industry; however, several states are using federal funding to expand early childhood education apprenticeship programs and the industry's worker pipeline.^{187,188,189} Santa Fe Community College in New Mexico, for example, offers both a pre-apprenticeship program (PA)which sets young people up for success in RAs-and an apprenticeship program.^{190,191} As a result, the school prepares people outside of the industry to be assistant teachers and those within the industry to receive an associate's degree to become lead teachers.

Wraparound services and pay equity efforts can help broaden the scope of workers in registered apprenticeship programs

Diversifying and strengthening RAs can help broaden the talent pipeline for industries that critically need more workers. Currently, apprentices are overwhelmingly male (84%) and white (nearly 61%). In industries that are currently booming, like construction and manufacturing, the disparity is even greater—over 93% of apprentices in construction are male and over 68% are white.^{192,193} Some barriers to participating in or completing RAs for women include inadequate child care, lacking pay during the classroom portions, missing full information about career paths, and experiencing harassment and exclusion in male-dominated worksites.¹⁹⁴ Others may face unreliable transportation or other financial hurdles to participating in or completing programs.^{195,196}

The median hourly wage for women who completed RAs was only 64.3% of the hourly wage of their male counterparts (\$22.00/hour compared to \$32.20/hour).¹⁹⁷ Addressing pay inequities and providing wraparound and retention services like child care, transportation, or mentorship can help strengthen worker pipelines.¹⁹⁸ Federal funding from DOL's Women in Apprenticeship and Nontraditional Occupations grant program can help support these efforts.¹⁹⁹

Congressional Democrats and the Biden-Harris administration are working to expand registered apprenticeships

Historic federal investments passed by Congressional Democrats and the Biden-Harris administration have created an important opportunity for RAs to grow the middle class. With the increasing demand for clean energy workers, expanding RAs can create more skilled workers crucial to the energy transition like electricians, pipefitters, and water treatment specialists.²⁰⁰ Provisions in the Bipartisan Infrastructure Law and Inflation Reduction Act are helping to expand the availability of apprenticeships and provide good wages through investments in the energy transition and critical infrastructure.²⁰¹ Bipartisan bills introduced by JEC Chairman Heinrich, like the Apprenticeships Pathways Act and the Pre-Apprenticeships to Hardhats Act, would also expand access to RAs and PAs, strengthen career pipelines for workers across the country, and address workforce shortages.^{202,203}

The federal government also provides funding streams for RAs and PAs.²⁰⁴ For example, state workforce development boards can use funds from the Workforce Innovation and Opportunity Act (WIOA) to support RAs and PAs. WIOA funding can help reimburse employers or other sponsors for apprentices' wages and help cover costs of the instructional portion of the program. Additionally, YouthBuild, a grant program through WIOA, provides funding for PAs for those ages 16 to 24 who are neither working nor in school, otherwise known as opportunity youth.^{205,206} The GI Bill benefits can also be used to help cover housing costs for participants in approved apprenticeship programs.

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