

Osher Lifelong Learning Institute, Fall 2025

The Economics of Public Policy Issues

George Mason University

Host: Geoffrey Woglom, Director National Economic Education Delegation



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The Economics of Public Policy Issues

- Week 1 (9/23): Economic Update & Central Bank Independence Geoffrey Woglom, Amherst College
- Week 2 (9/30): Climate Change Economics Sarah Jacobson, Williams College
- Week 3 (10/7) Al and Inequality Geoffrey Woglom, Amherst College
- Week 4 (10/14): Economic Mobility Kathryn Wilson, Kent State University
- Week 5 (10/21): Saving Social Security Jon Haveman, Exec Director, NEED
- Week 6 (10/28): Federal Debt and Deficits Dmitriy Stolyarov, U of Michigan



Submitting Questions



- Please feel free to submit questions in the chat. I will pause the talk periodically and address questions.
- We will do a verbal Q&A once the material has been presented, and I will try to address the remaining questions then.
- Slides will be available from the NEED website tonight or tomorrow https://needecon.org/delivered_presentations.php.



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The US Federal Debt

October 28, 2025

Dmitriy Stolyarov University of Michigan





Credits and Disclaimer



- This slide deck was created by:
 - Jon Haveman, Executive Director, NEED
 - Geoffrey Woglom, Amherst College, Emeritus
- This slide deck was reviewed by:
 - Olivier Blanchard, Brookings Institution
- Disclaimer
 - NEED presentations are designed to be nonpartisan.
 - It is, however, inevitable that presenters will be asked for and offer their own views.
 - Such views are those of the presenters and not necessarily those of the National Economic Education Delegation (NEED).



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- Budget and Deficits
- Government Borrowing
- Important Points About the Debt
- How to Think About the Debt
- Summary



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First: A Budget Review



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- Revenue: taxes received from individuals and businesses and other government income
- · Outlays: expenditures on government programs and interest payments
 - 61% Mandatory expenditures are required by existing law (e.g. Social Security, Medicare, unemployment insurance)
 - 28% Discretionary expenditures require an appropriations act (e.g. defense, education, funding for federal agencies)
 - **11%** Interest payments on debt
- Surplus or Deficit: difference between revenues and outlays
 - If revenues exceed outlays, we have a surplus
 - If outlays exceed revenues, we have a deficit
- Primary Deficit: difference between expenditures and revenues



What Does t		Budget Look Summary (in billio	
Revenue		Outlays	
Income Taxes	\$2,176	Mandatory	\$3,747
Payroll Taxes	\$1,614	Discretionary	\$1,719
Corporate Taxes	\$420	Interest	\$658
Other	\$230		
Total	\$4,441	Total	\$6,123
NATIONAL ECONOMIC	Total Deficit:	\$ 1 ,683 Billion	
EDUCATION DELEGATION			https://www.cbo.gov/publication/60339

		t. Budget Loo t Summary (as %		
Revenue		Outlays		
Income Taxes	8.1	Mandatory		13.9
Payroll Taxes	6.0	Discretionar	у	6.4
Corporate Taxes	1.6	Interest		2.4
Other	0.9			
Total	16.5	Total		22.7
NATIONAL ECONOMIC	Total Deficit	t: 6.2		
EDUCATION DELEGATION			https://www.cbo.go	ov/publication/60

Mechanics of government borrowing



- US Department of the Treasury issues bonds (i.e. debt contracts)
 - *T-bills* maturity up to 1 year (a T-bill that pays \$1,000 1 year from now costs approximately \$960)
 - T-notes maturity up to 1-10 years
 - T-bonds maturity more than 10 and up to 30 years
- Sells bonds via auction, at market interest rates
 - Proceeds deposited in the Treasury's account at the Federal Reserve



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More Detail on borrowing by US Government





- o Treasury bills, notes, and bonds
- o TIPS: Treasury inflation-protected securities
- o Savings bonds

Who buys the debt?

- Other federal agencies
- Individuals and businesses
- State and local governments
- Foreign governments and individuals
- Federal Reserve (existing debt only)



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Borrowing discipline



Appropriations process

o Discretionary spending requires annual approval by Congress

Debt ceiling

Legal limit on the total amount of debt the federal government can incur.
 Congress must pass specific legislation to increase or suspend the limit

Market discipline

- o The interest rate on US debt is set in the free market
- o Interest rates are a gauge of investor confidence in the safety of US debt



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Borrowing discipline



Why doesn't the US Treasury sell bonds directly to the Fed?

- Selling bonds to the Fed creates money in the government account without removing money from anywhere else
- o This can cause inflation
- o In the US, government borrowing is distinct from "printing money"

Principle of separation of monetary and fiscal policy

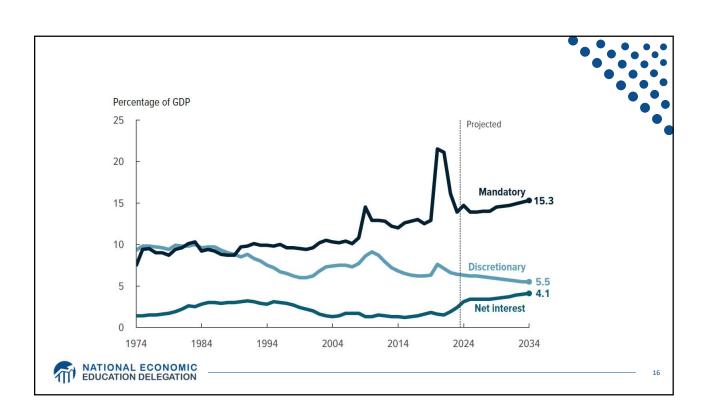
- The Fed independently decides how much existing US debt it holds
- The Fed buys and sells bonds to regulate the amount of money in the US banking system
- Federal Reserve independence contributes to financial stability and investor confidence

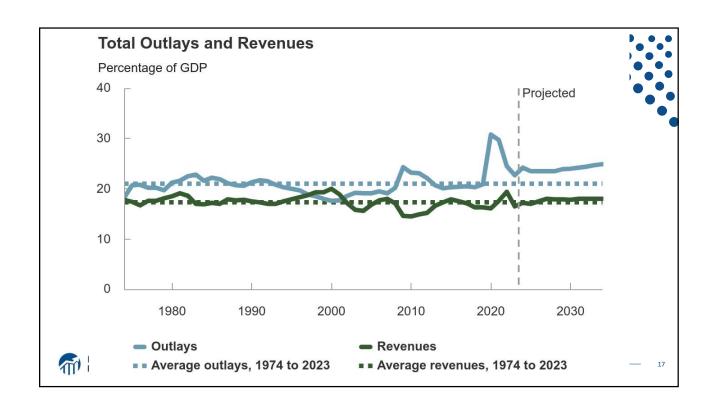


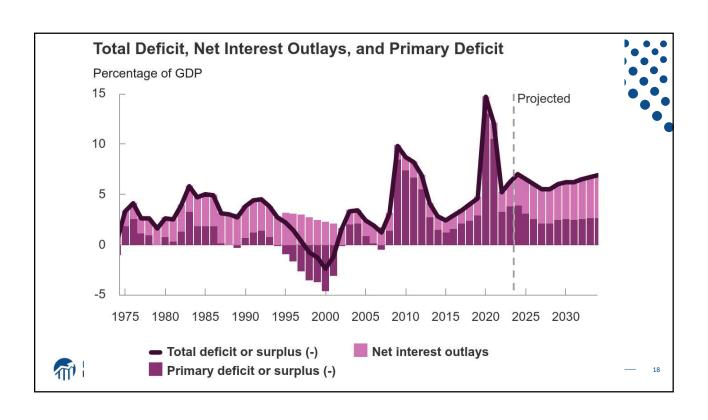


Deficits have been chronic













Government debt equals past accumulated deficits, with interest

Debt next year = Debt this year + Total deficit

Debt next year = Debt this year + Interest + Expenditures - Revenues

Primary deficit



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And Now: The Debt





\$38,009,025,959,457

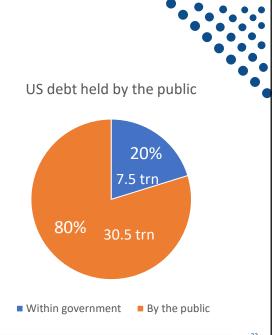
- Total debt over 36 trillion dollars
- This is about 269,000 per full time worker
- Or about 283,000 per US household



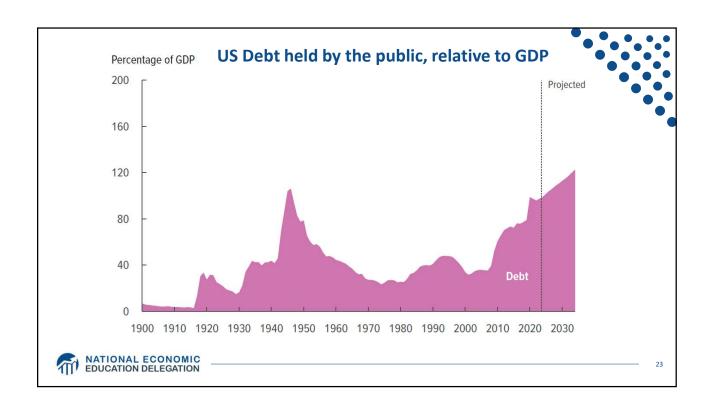
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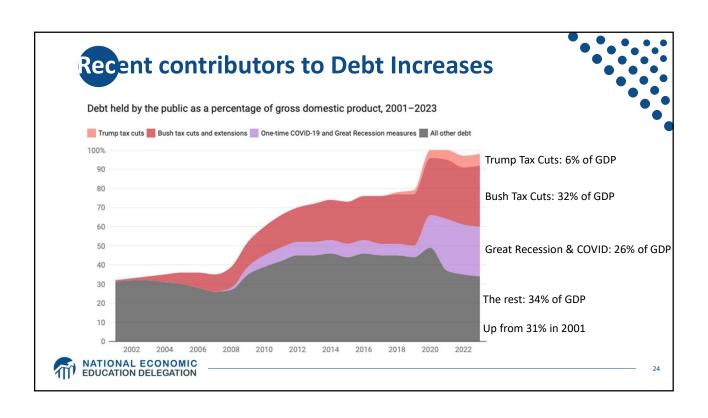
Not All Debt Is Created Equal

- As of 2025, 20% is within-government debt holdings, a form of bookkeeping
 - This debt **DOES NOT** affect private asset markets
- 80% Debt held by the public
- Most analyses of debt focus on federal debt held by the public.



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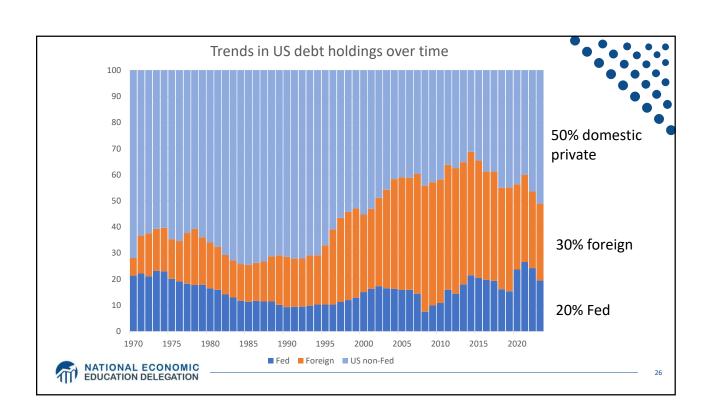


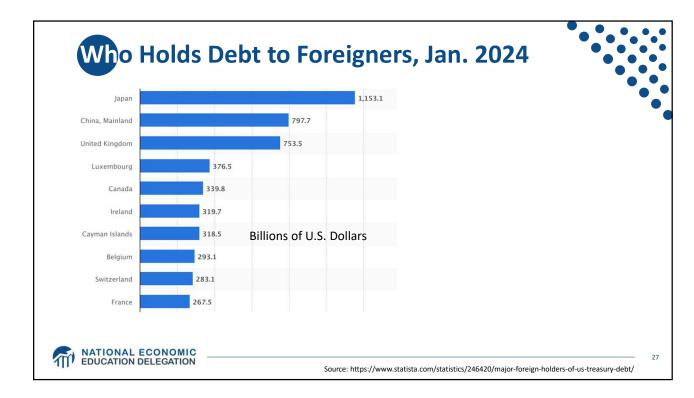




Who holds US debt







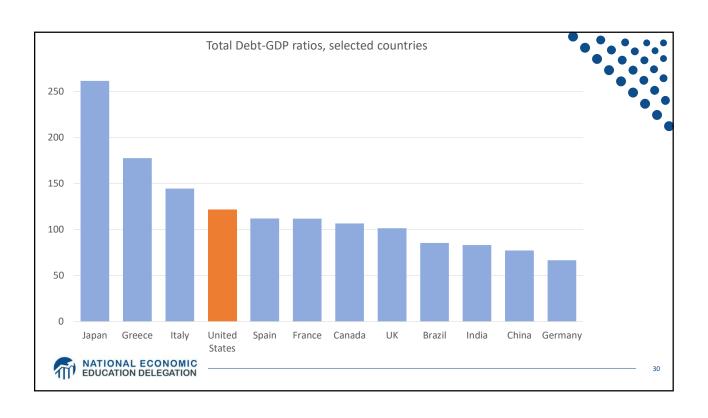




- The US debt is perceived as a safe asset
- The dollar is the largest international reserve currency.
 - Most trade transactions (e.g., oil) are quoted in dollars.
 - 88% of international transactions involve the dollar.
 - With some exceptions, foreign governments borrow in dollars.







Growth in Debt Relative to GDP

- Can be scary to....
 - International investors
 - Bond markets
- No one knows when US borrowing will be perceived as too much
- Crises of confidence are unpredictable and happen very quickly
- If a fiscal crisis happens
 - Scared international investors will sell US assets, weakening the dollar
 - US debt selloff will make interest rates spike



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How can a Fiscal Crisis unfold?



- Potential manifestations:
 - Spike in interest rates
 - Weak dollar
- Why?
 - Shift away from US assets, higher risk of future inflation
- Potential results:
 - Dramatic budget reforms may be quickly necessary to control future deficits.
 - Recession from declines in:
 - o investment (interest rates)
 - consumption (interest rates)
 - o Government spending
 - Higher interest bill on existing debt





<u>Trigger</u>: a tax cut bypassing usual budget scrutiny Market reaction due to confidence collapse

- The pound plunged to \$1.03, its lowest level in history
- Long-term bond rates spiked from 3.5 to 5.1 percent (highest since 2008)
- · Pension funds that used bonds as collateral for borrowing risked insolvency

Policy response: BoE emergency intervention

• BoE had to buy about 3 percent of total government debt to prevent a systemic collapse of pension funds and broader financial system.

Aftermath: The "Idiot Premium"

- Government borrowing costs rose by 50-100 basis points
- Debt service costs rose from 4.4 to 4.9 percent of GDP
- Mortgage rates rose from 4.75 to 6.65 percent



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Perspectives on Debt



Perspectives on Increased Debt



- Does debt impose a burden on future generations?
 - Does it inevitably have to be paid off?
- Government borrowing crowds out funding for investment.
 - Less of an issue if foreign investors need safe assets
- In time, debt service might crowd out other government spending.
 - Diminishing policy priorities in the budget.
- Is it reasonable to borrow at low interest rates for investment?
 - For example, for infrastructure.



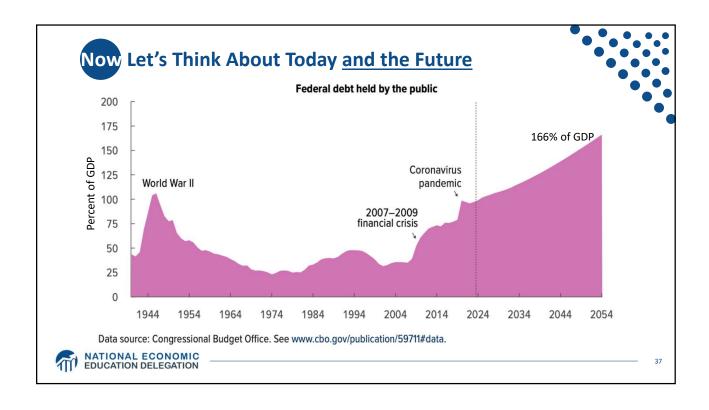
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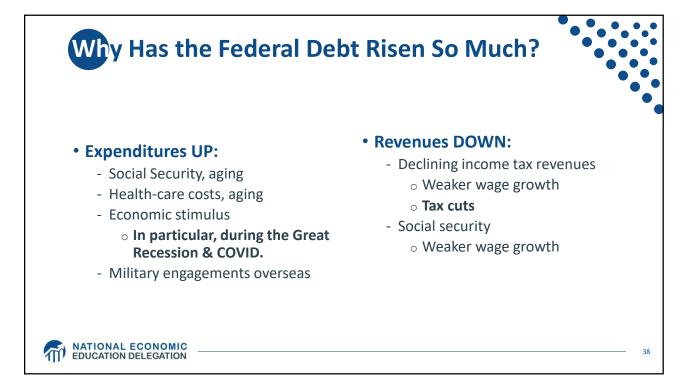
Is Stable Debt Relative to GDP Good Enough?



- Stable means that the debt level rises in step with the size of the economy
- Yes, it probably is good enough.
 - It is a reflection of the economy's ability to support the debt.
 - Stability will avoid bond market scares.
- Stable relative debt should not be a burden on future generations



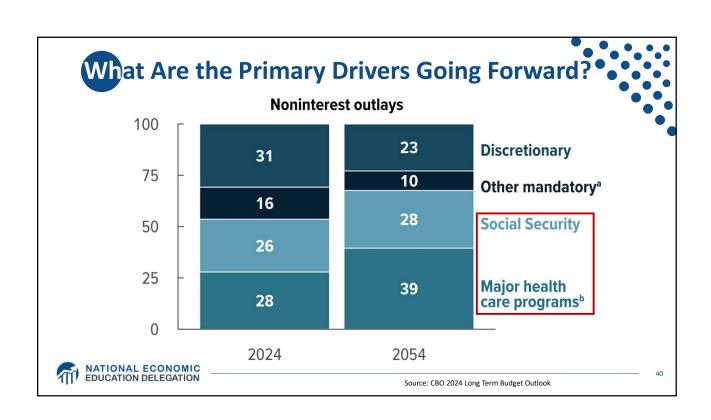


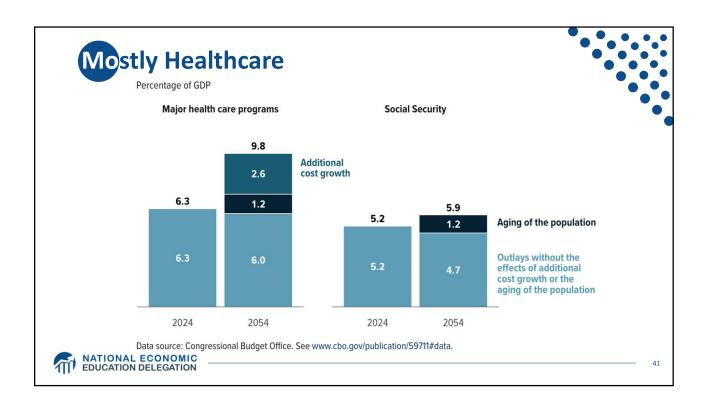


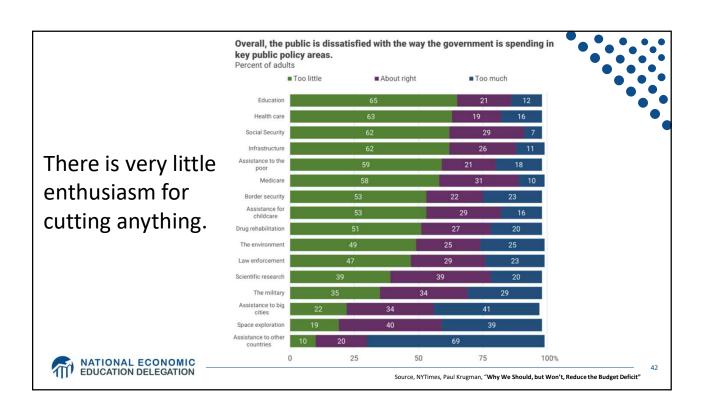
Is The Debt a Problem Today?

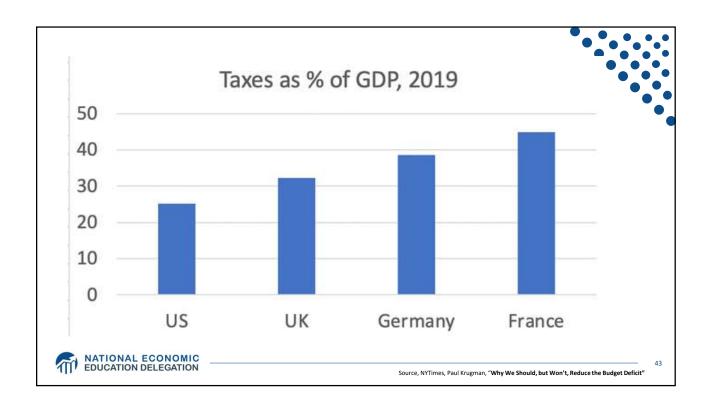
- Federal government still borrows with little difficulty.
- So, not (yet) a problem. But ...
- 10-year interest rates are still moderate, but rising inflation expectations are becoming a concern.
- 10-year US interest rates are higher than those in Canada, Germany, Japan

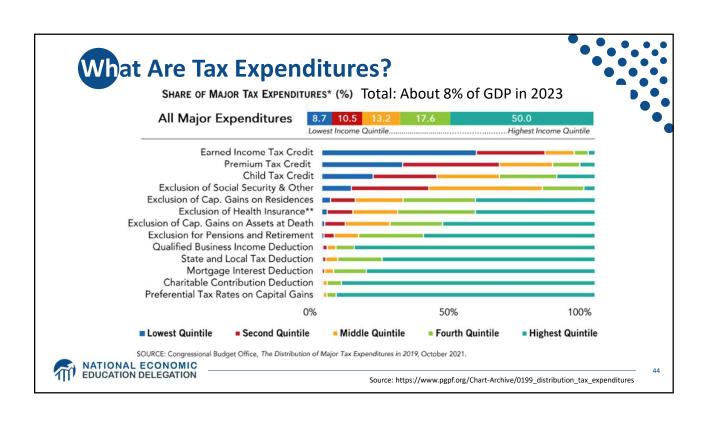












Summary



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Major Takeaways



- The debt is not currently a significant problem.
- The current trajectory for the federal debt is unsustainable.
 - The primary drivers are healthcare cost growth, an aging population, and interest.
- We must enact plans to reduce the future (primary) deficits.
 - Deficits are driven by health care and Social Security spending.
- The longer we postpone action, the greater the probability of a "fiscal crisis."



Bottom-Line Takeaways

- ie.
- Relative debt must be stabilized, so it is imperative to reduce primary deficits.
- Given the fiscal challenges of an aging population and climate change, it is better to do this sooner rather than later.
- But high debt levels should not deter:
 - Productive infrastructure investment.
 - Fiscal responses to crises:
 - "When the house is on fire, you don't worry about being in a drought; you
 just put it out."



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Any Questions?



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