Osher Lifelong Learning Institute, Fall 2019 What Economists Know About Important Policy Issues

Lecture 2: The Federal Budget

September 27, 2019

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National Economic Education Delegation



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National Economic Education Delegation



Vision

- One day, the public discussion of policy issues will be grounded in an accurate perception of the underlying economic principles and data.

Mission

 NEED unites the skills and knowledge of a vast network of professional economists to promote understanding of the economics of policy issues in the United States.

NEED Presentations

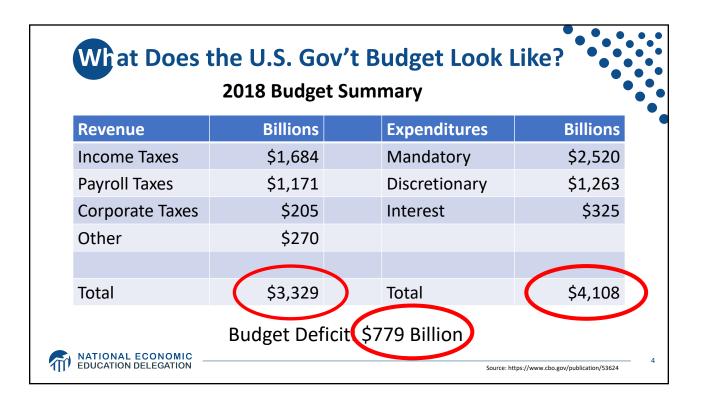
- Are **nonpartisan** and intended to reflect the consensus of the economics profession.





Lecture 2









- Government Spending
- Government Revenues
- Government Debt

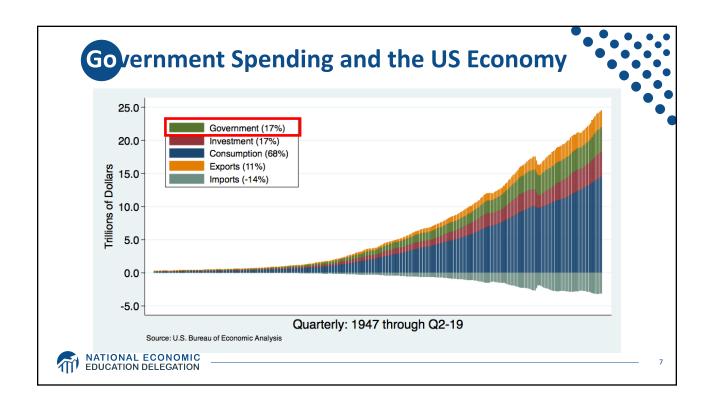


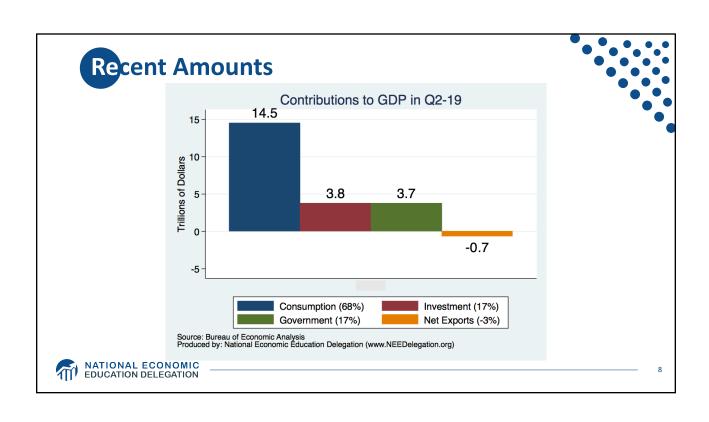
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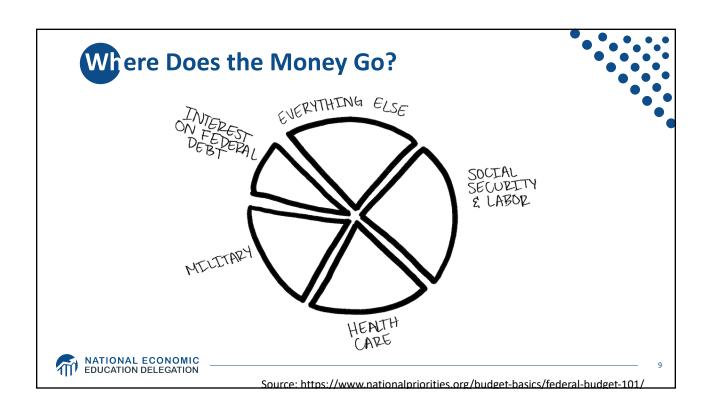
U.S. Government Spending

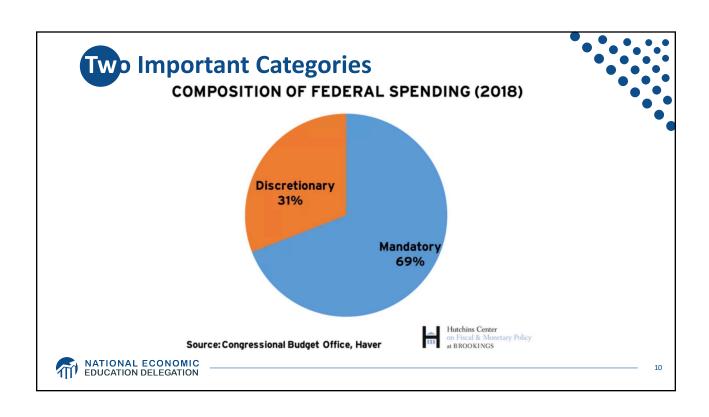


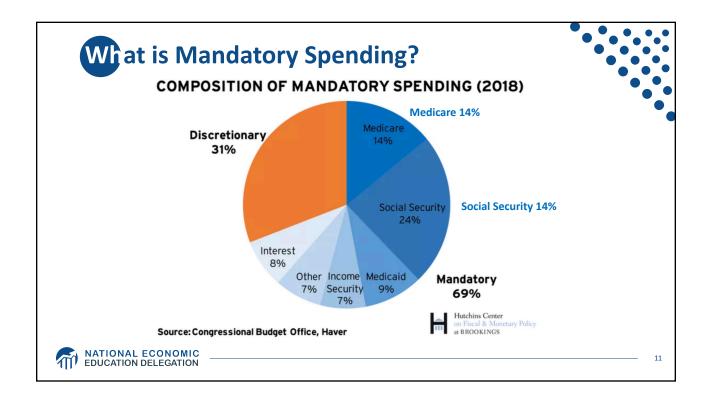
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- Covers 96% of US workers.
- Retirement age is increasing from 65-67.

Survivors

- A worker's spouse and dependents may be eligible for survivors' benefits if the worker dies.

Disability

- A medical condition expected to last at least one year or to be fatal.





Where Do Social Security Funds Come From?

Payroll taxes

- Tax rates:

o Employee: 6.2% 6.2% o Employer:

o Self Employed: 12.4%

- Cap in 2019: \$132,900

Taxes on OASDI benefits

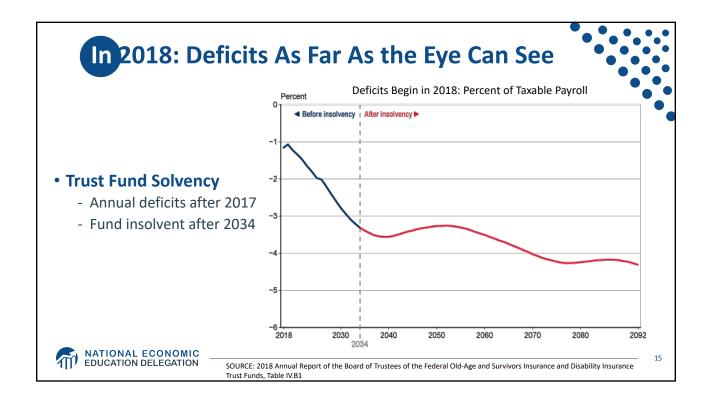
- Not all benefits are taxed.

Interest earnings

Key Question: Who pays?

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Social Security Trust Fund 200 3,000 Spending in 2017 - OASI: \$807 billion 150 - DI: \$146 billion 2,000 Income in 2017 Billions of \$ 100 \$826 - OASI: - DI: \$171 1,000 50 Surplus in 2017 - OASI: \$19 - DI: \$25 **0** 1960 1980 2000 2020 Total Surplus: \$44 Billion Year: Through 2017 Surplus (Left Axis) Reserves (Right Axis) NATIONAL ECONOMIC EDUCATION DELEGATION



Options for Eliminating the Soc Sec Deficits Problem is 1-1.5% of GDP



- Raise the retirement age
- Increase the tax rate
 - 4 percentage pt increase raises 0.6% of GDP
- Raise the amount of income subject to tax
 - Tax all wages raises 1.1% of GDP
- Reduce benefits



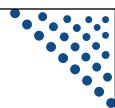
Mandatory Spending: Medicare (14%)

- Part A: Hospital Insurance
- Part B: Physician, outpatient, home health, and other services.
- Part D: Subsidized access to pharmaceuticals.
- Part C: Medicare Advantage Plans offered by private companies approved by Medicare.
 - Medicare Advantage Plans may offer extra coverage, such as vision, hearing, dental, and/or health and wellness programs.



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Where Do Funds Come From?



- Payroll taxes
 - Tax rates:

Employee: 1.45%Employer: 1.45%Self Employed: 2.9%

- No Cap
- Interest earnings
- General revenues
- Beneficiary premiums



Medicare Finances in 2018



• Part A:

Income in 2018: \$299 billion
Expenses in 2018: \$297 billion
Surplus: \$2.8 billion

Part B and Part D:

Income in 2018: \$406 billion
Expenses in 2018: \$414 billion
Surplus: \$-7.9 billion

• Long term sustainability:

- Deficits began in 2016
- For as far as the eye can see



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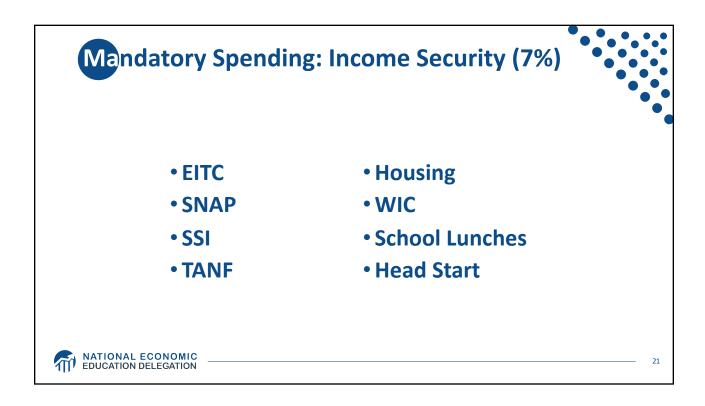
Mandatory Spending: Medicaid (9%)

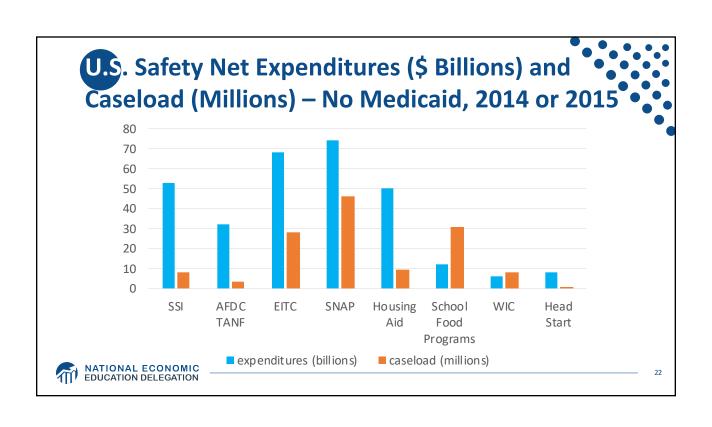
- Medicaid provides medical insurance for those whose income and resources are insufficient to pay for health care.
- It is a program with costs shared with the states.
- Amount spent in 2017: \$576.6 Billion

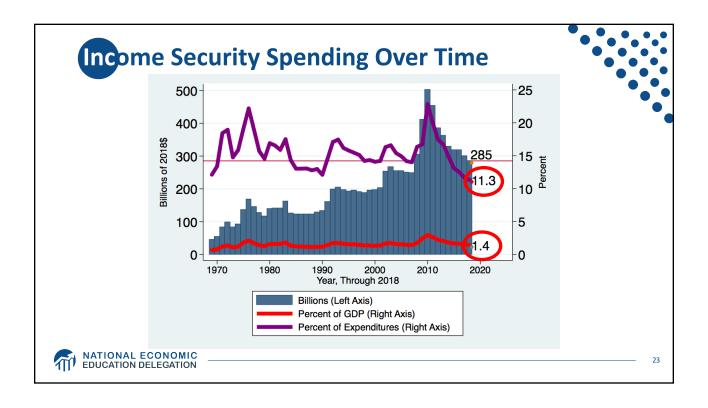
Federal: 61.5% or \$354.6 BillionStates: 38.5% \$222.0 Billion

• People served in 2017: 72 million (22% of Americans)









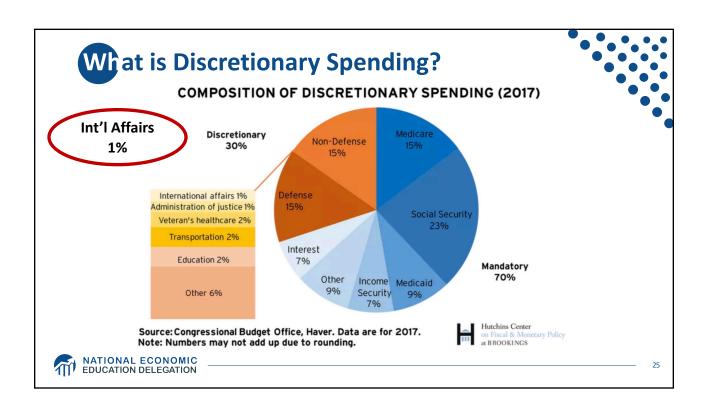




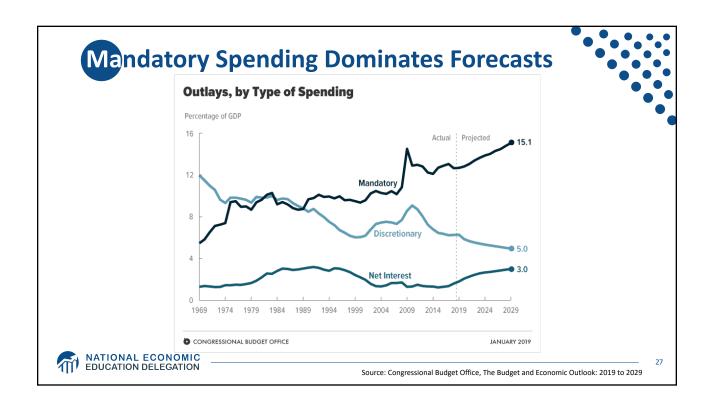
- Interest costs in 2018: \$325 Billion
 - 1.6% of GDP, or 8% of the Federal Budget
- Forecast to increase to \$928 Billion in 2029
 - 3.0% of GDP, or 22% of the Federal budget

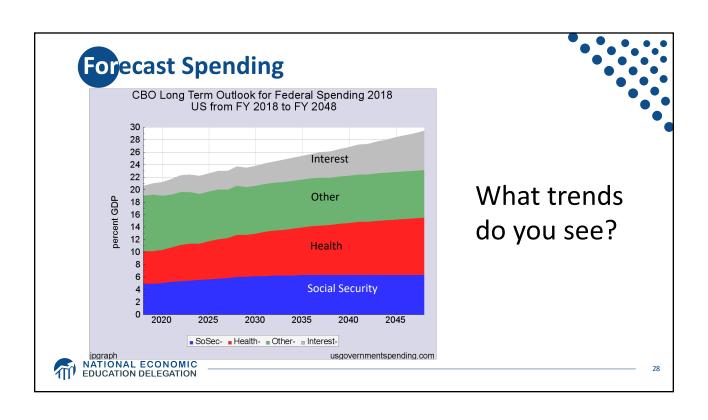


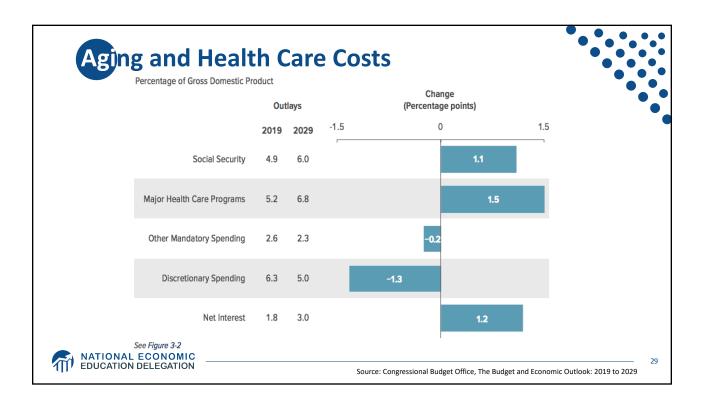
Source: CBO, January 2019 Budget Projections



Category	Amount
Energy	4,412
Agriculture	5,800
Medicare	5,906
General government	17,403
General science, space and tech	30,289
Natural resources and environment	36,766
Housing Assistance	45,711
Health	60,326







Another Category of Spending: Tax Expenditure

Description

- Social policies that are implemented and paid for through the tax code.

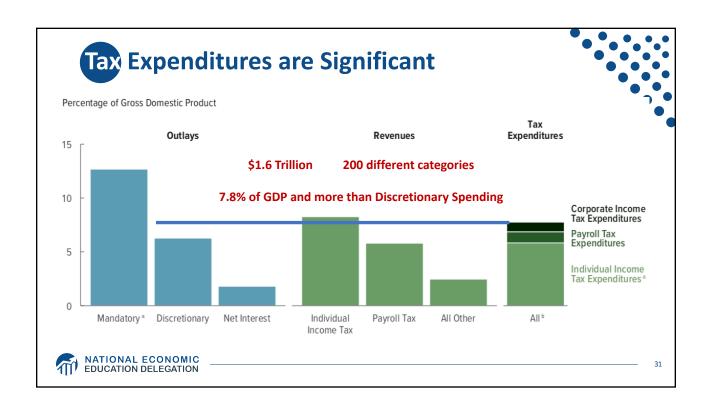
List of the largest tax breaks:

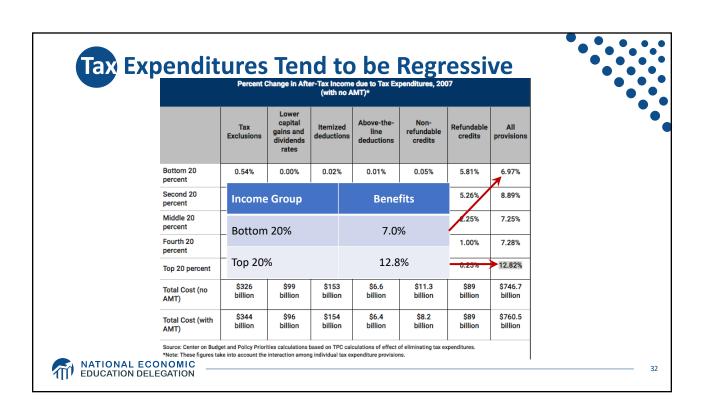
- Mortgage interest deduction Low tax rates for Capital Gains
- Retirement contributions Child related tax credits
- State and local taxes Charitable gifts
- Health insurance Lifetime Learning

Evidence of who they benefit

- Regressive







Important things that people get from govt

- Roads and highways
- Public education
- Defense
- Research and development
- Space exploration
- Income Security

- Improved public health
 - Sanitation
- Investments in communications
- Energy
- Many, many, inventions
 - Microchips Touch screens
 - GPS- Internet- Wind turbines- Bar Codes
 - Tang Wii

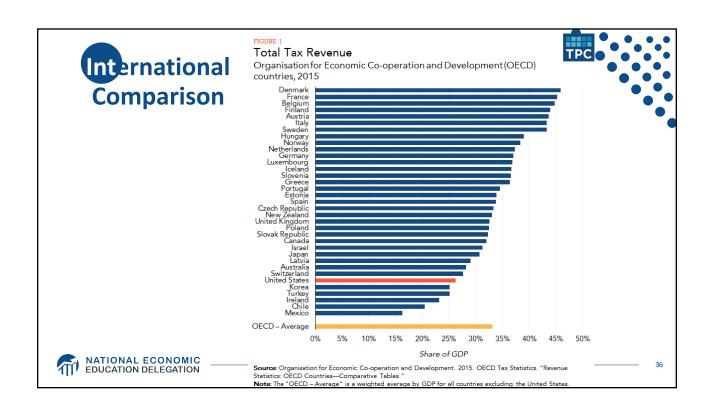


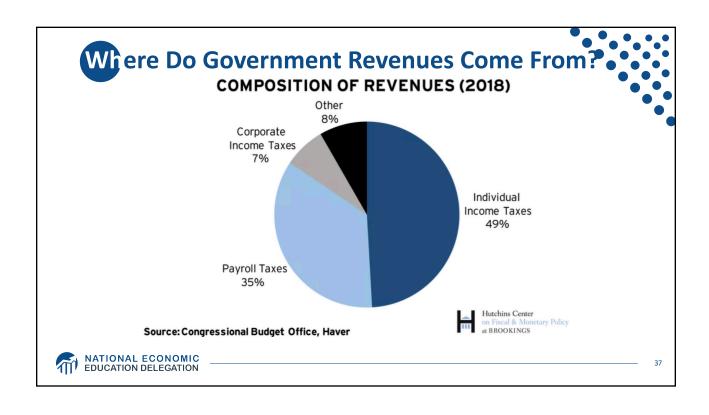
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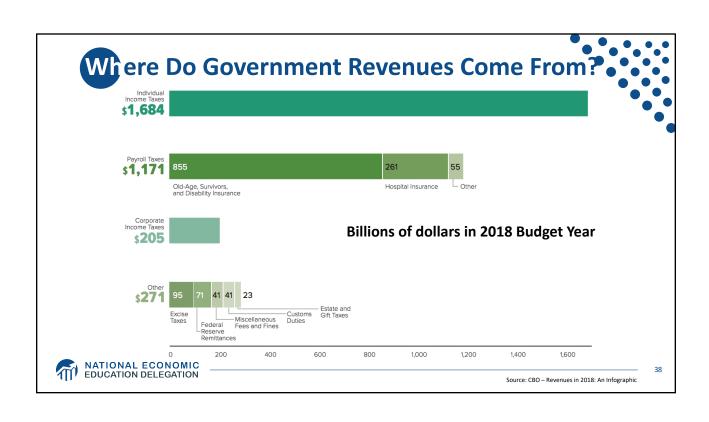
US Government Revenues



Federal Government Revenues in 2018 Funds collected from the public that arise from the government's exercise of its sovereign powers REVENUES, \$3.3 TRILLION \$1.7 \$3.3 16.5% **OUTLAYS, \$4.1 TRILLION Trillion Trillion** Interest \$0.3 T Mandatory \$2.5 T Discretionary \$1.3 T Revenues as a by the federal individual income taxes, percentage of government the largest source GDP in **2018** U.S. GDP: \$20.6 Trillion of revenues, in 2018 in **2018** In 2018 NATIONAL ECONOMIC EDUCATION DELEGATION 35 Source: CBO - Revenues in 2018: An Infographic







Individual Income Taxes



- Marginal tax rates
- Not all income is subject to the same tax rates
 - capital gains
- Deductions
 - Talked about as Tax Expenditures



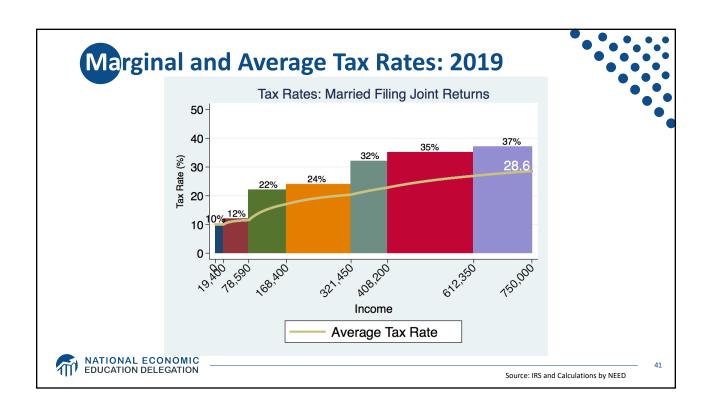
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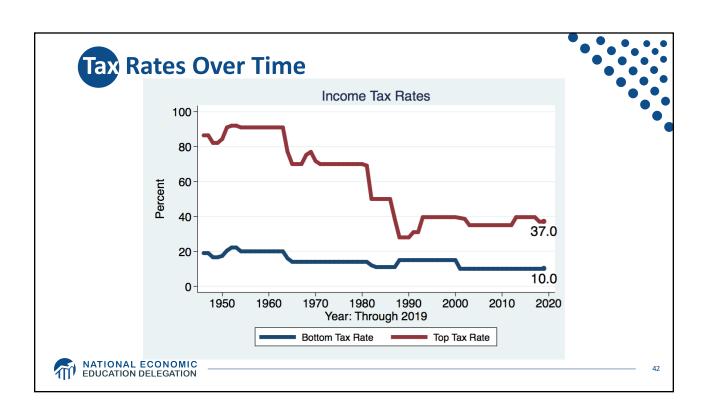
Marginal Tax Rates: Married Filing Jointly

- Income is taxed differently at different levels.
- Individuals are taxed the same way, regardless of overall income:
 - First dollar is taxed at 10%
 - 19,401st dollar is taxed at 12%
 - Millionth dollar is taxed at 37%

Income Above	Tax Rate
0	10%
19,400	12%
78,590	22%
168,400	24%
321,450	32%
408,200	35%
612,350	37%









Why do we have a Progressive Tax System?



Our options are:

- Progressive: increasing average tax with income
- Neutral or flat: same share of income at all income levels
- Regressive: decreasing average tax of income
- Additional income is of greater consequence to those with lower incomes.
- Other parts of the tax system are regressive.



Capital Gains Taxes (2018)

boats and other tangible items.

- Capital gains taxes can apply on investments, such as stocks or bonds, real estate (though usually not your home), cars,
- Short term or long term
 - Held for more or less than a year
- Graduated rate
 - 0% < \$38,600
 - \$38,601 \$425,800 - 15%
 - \$425,801+ - 20%







- Federal Reserve Remittances
- Miscellaneous Fees and Fines
- Customs Duties
- Estate and Gift Taxes

- Excise Taxes
 - Motor fuel
 - Airline tickets
 - Tobacco
 - Alcohol
 - Health-related goods

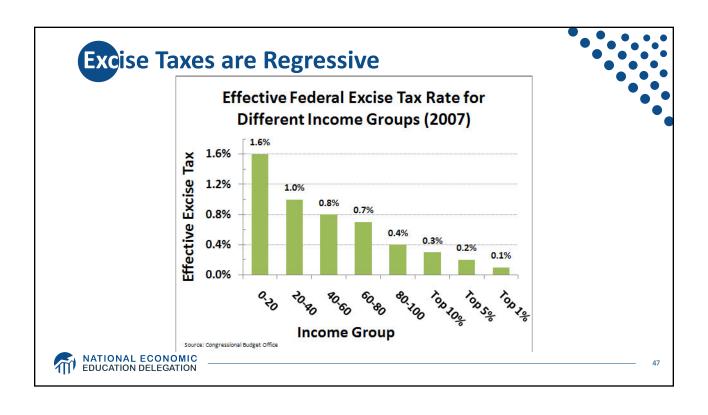


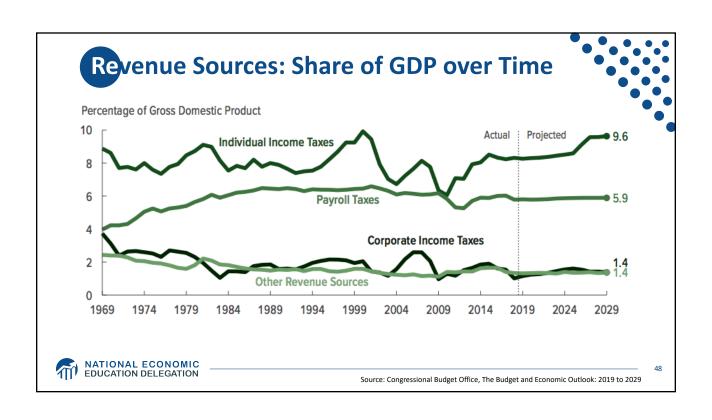
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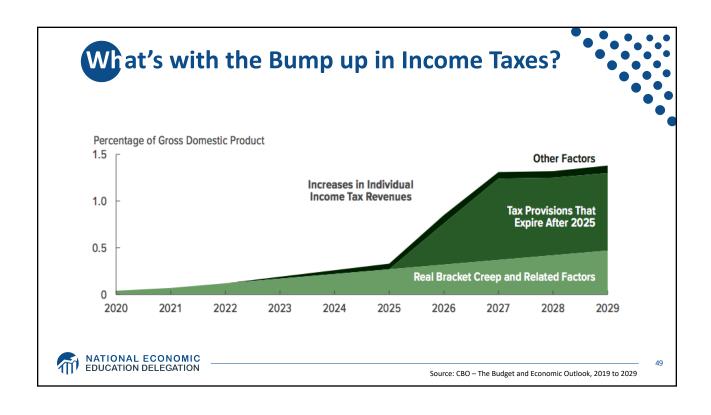
Estate Taxes

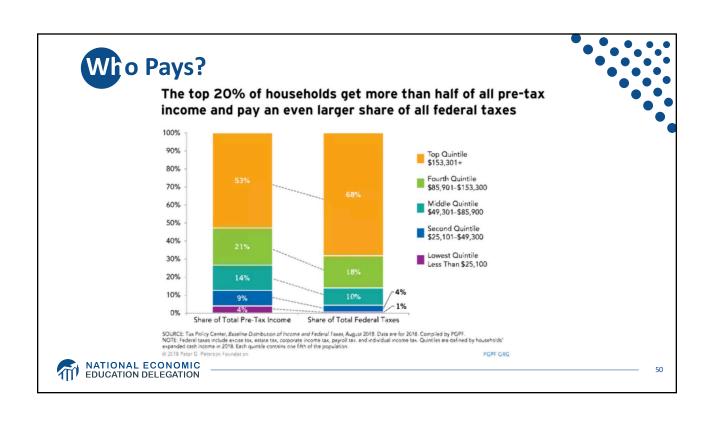
- \$23B in revenues in 2018
- Exemption: \$11.2 million for singles \$22.4 million for couples
- Tax rate: 40%
- Top 10% pay more than 90%, Top 1% pays nearly 40%
- 1,900 estates
- Businesses and farms: 140 subject to tax
 - No Small businesses or farms because of the \$11.2 million exemption













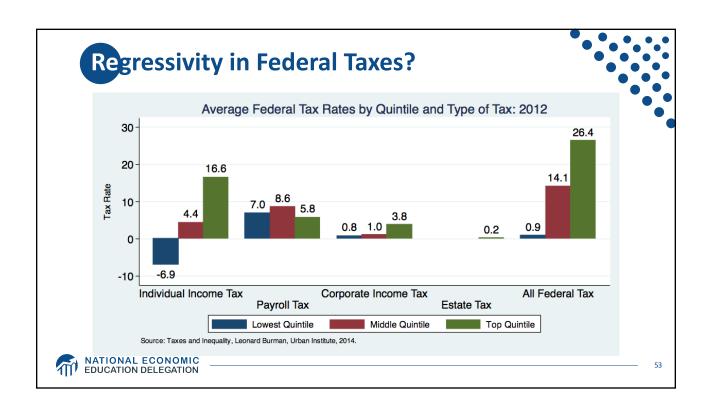
The Bottom 40% Don't Pay Income Taxes

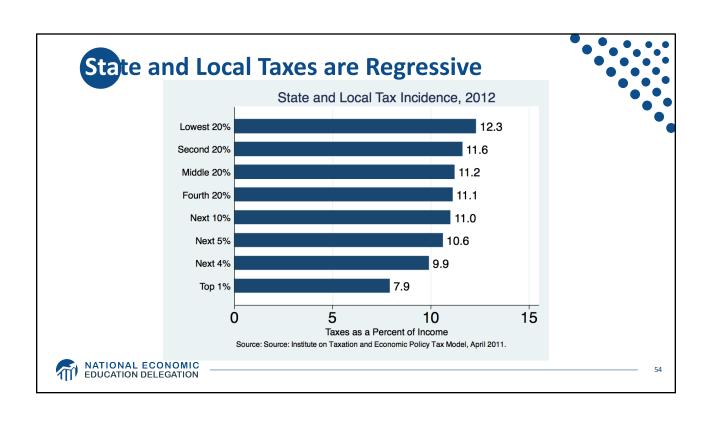
- There is a common narrative that the bottom 40% don't pay income taxes.
- But they pay other taxes and they also pay state and local taxes
 - Payroll,
 - State and local taxes
 - Excise taxes see the slide 4 slides ago
- Does it matter from what tax revenues are derived?
- Should the income tax be used to make the system progressive?

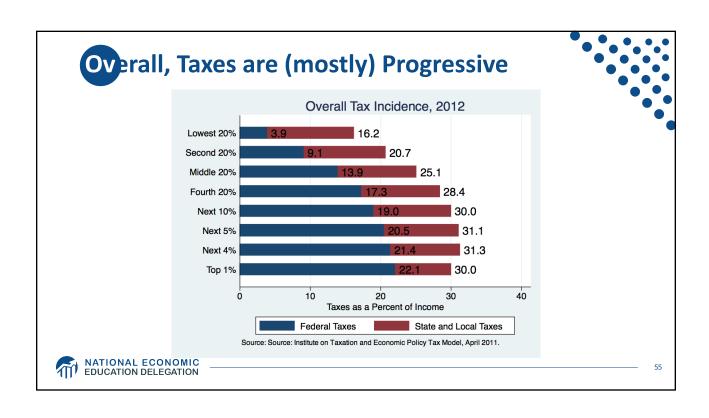


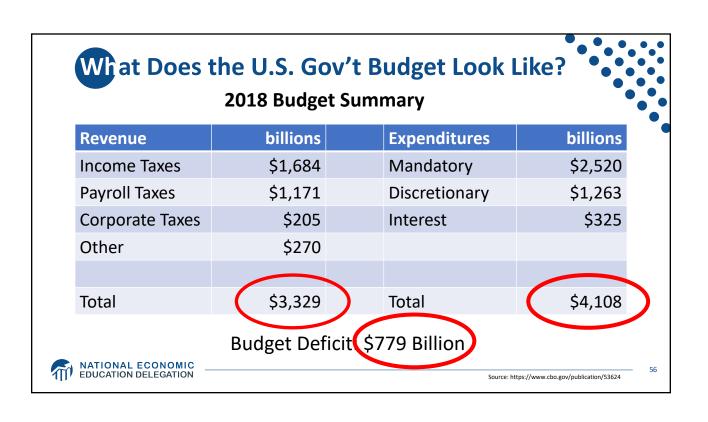
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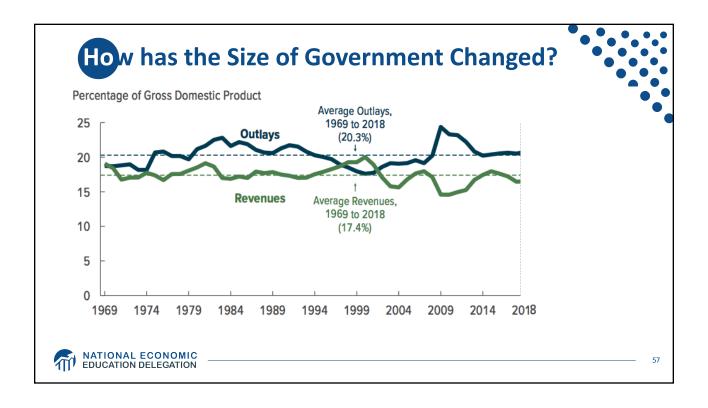
The Bottom 40% Does Pay Other Taxes EFFECTIVE FEDERAL TAX RATE (% OF CASH INCOME IN 2016) 40% Excise Q: Are we sure who pays the 31.9% ■ Payroll Corporate Income Tax? 30% 24.9% ■ Individual Income Tax 20% 17.2% 13.5% 10% 8.4% Lowest Quintile Second Quintile Middle Quintile Fourth Quintile SOURCE: Tax Policy Center, Effective Federal Tax Rates By Expanded Cash Income Percentile, March 2017. Data are for 2016. Compiled by PGPF. NOTE: Individual income tax rates for the lowest and second lowest quintiles are negative and are netted against the payroll tax rate. A quintile is not fifth of the population. In 2017 dollars, the income breaks are: 20% 524,600,40% \$47,700; 60% \$84,300; 80% \$147,700; 99% \$717,900. Includes both filing and non-filing units but excludes those that are dependents of other tax units. NATIONAL ECONOMIC 52 TO EDUCATION DELEGATION











Budget Summary: Slide 1



- Total Spending: \$4.1 Trillion in 2018
- There is remarkably little discretion in the budget:

- Mandatory: 69%- Discretionary 31%

- Fastest growing parts of the budget: Health Care and Interest
- By 2048:
 - Debt is forecast to grow to 150% of GDP, from 80% today
 - Interest payments are forecast to grow from 8% to 22% of budget



Budget Summary: Slide 2



- Categories that get a lot of attention are relatively small
 - Foreign Aid: 1% of the budgetIncome support/welfare: 8.7%
- Or are not forecast to grow significantly
 - Social security
 - Most other categories of spending



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Budget Summary Slide: Tax Expenditures



- Are policy enacted through the tax code.
- Are not explicitly on the books.
- They add > 25% to actual government expenditures.
- Reduce the progressive nature of the tax code.
- Are larger than all of "Discretionary Spending".





Government Debt



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How Does the U.S. Government Borrow?



• It issues debt

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

• Who buys the debt?

- Other federal government agencies
- Individuals and businesses
- State and local governments
- People, businesses, and governments from other countries.







STOCK

- Debt: The accumulation of debt over time.
 - The sum of all past debts and surpluses.

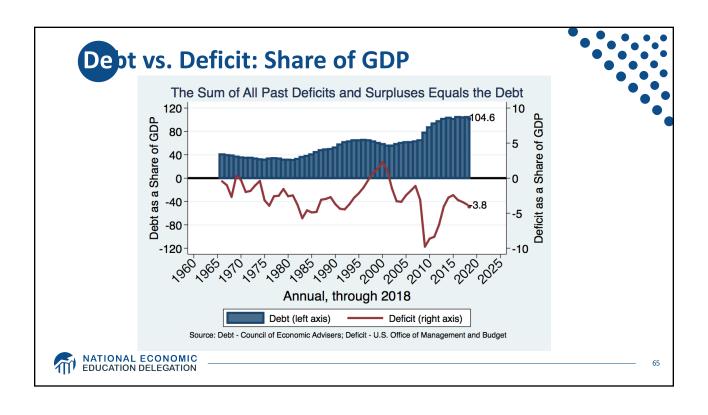
• FLOW

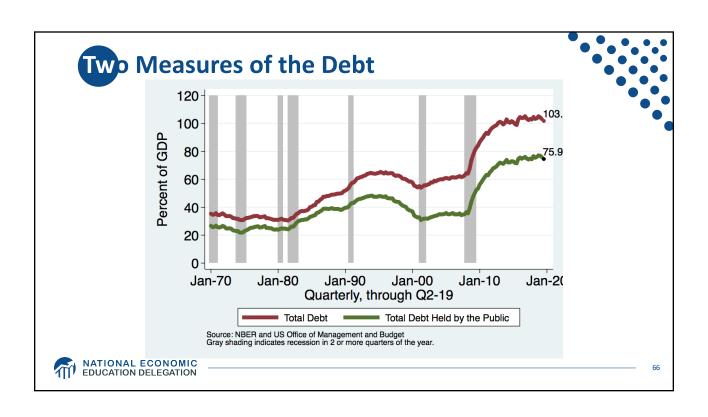
- **Deficit**: The amount of debt accrued in a single year.
- Surplus: The excess of revenues over expenses in a single year.

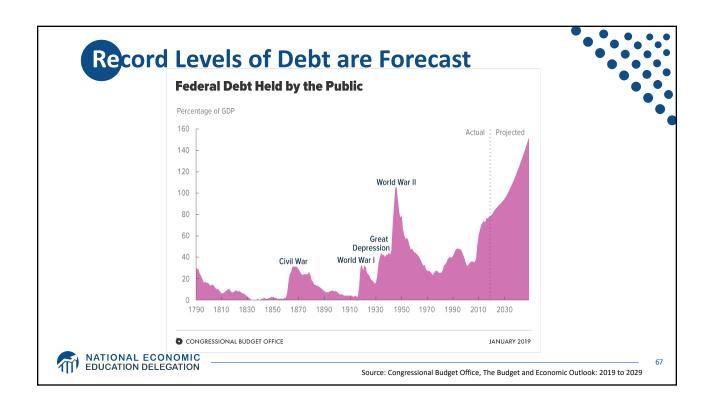


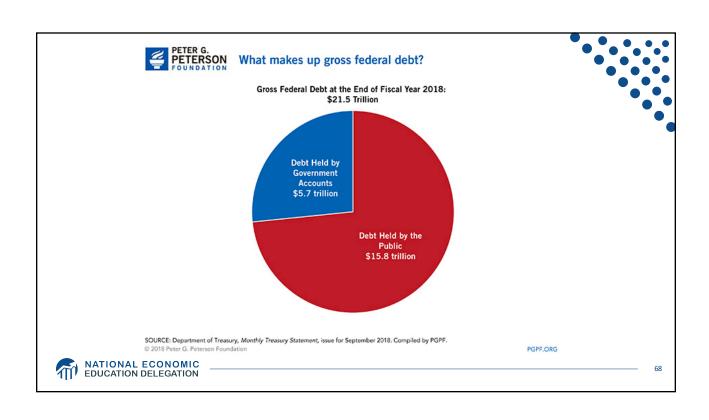
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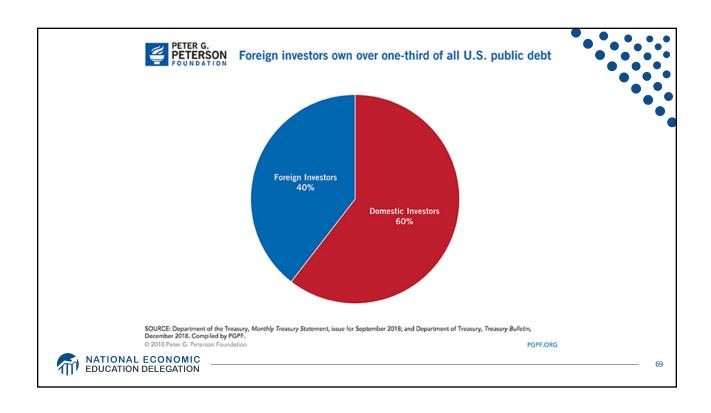
The Sum of All Past Deficits and Surpluses Equals the Debt 20 10 1,000 500 1,000 -1,000 Annual, through 2018 Debt Deficit Source: Debt - Council of Economic Advisers; Deficit - U.S. Office of Management and Budget

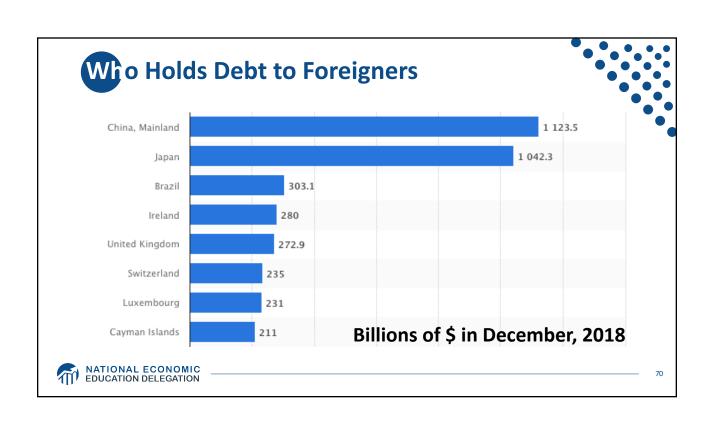


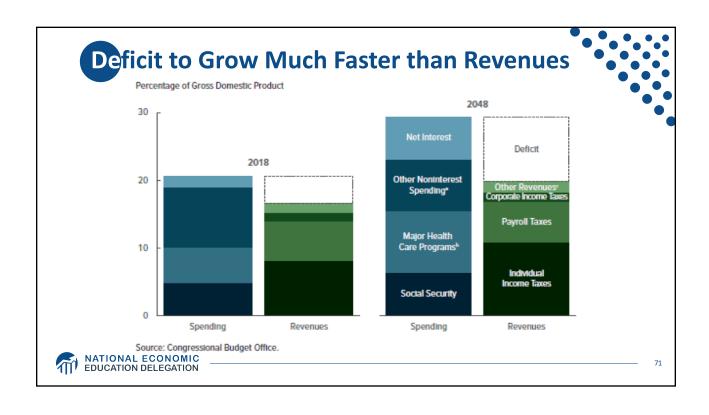


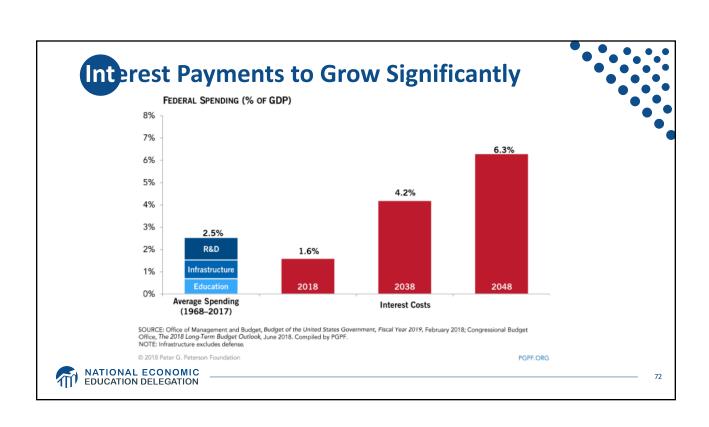












Perspectives on Increased Debt

- Government borrowing crowds out private capital and investments.
 - Weakened by ability to borrow from abroad
- It is reasonable to borrow at low interest rates for investments.
 - For example, infrastructure
- Debt imposes a burden on future generations.
 - Does it inevitably have to be paid off?
- In time, it will start to crowd out other government spending.
 - Diminishing policy priorities in the budget.



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The Reason for Borrowing Matters



- Two good reasons to borrow heavily:
 - To support the economy during a recession fiscal expansion.
 - Investments that will increase economic activity in the future.
- Should not borrow for:
 - Items consumed today
 - o Government salaries
 - o Retirement benefits
 - Tax breaks of uncertain benefit to the broader economy.



Is the Debt a Problem Today?



- Currently borrow about \$100 million each month with little difficulty.
- Interest rates are very low, less than 3% on 10-year notes.
- Very little evidence of "crowding out".



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Interest Rates are Historically Low US Treasury Rates 20.0 15.0 Percent 10.0 5.0 0.0 Jan-60 Jan-20 Jan-80 Jan-00 Daily: Through 9/18/19 1-Year (1.87%) 3-Year (1.72%) 10-Year (1.8%) 5-Year (1.68%) Source: Board of Governors of the Federal Reserve System NATIONAL ECONOMIC EDUCATION DELEGATION

So, Why Worry About it?

• If debt gets too high:

- There is the potential for investors to start questioning the creditworthiness of the U.S. Government.
 - o Problem: Nobody knows how high might be too high?
- It becomes more difficult to borrow in times of crisis.
 - War, severe recession
 - $_{\odot}$ "Fiscal space" impossible to measure how much we have, but clear that we have less now than back in 2007.
- Could start to crowd out investments by consumers and businesses.
 - o Not currently a problem. No idea if/when it might be come one.
- Could be inflationary.



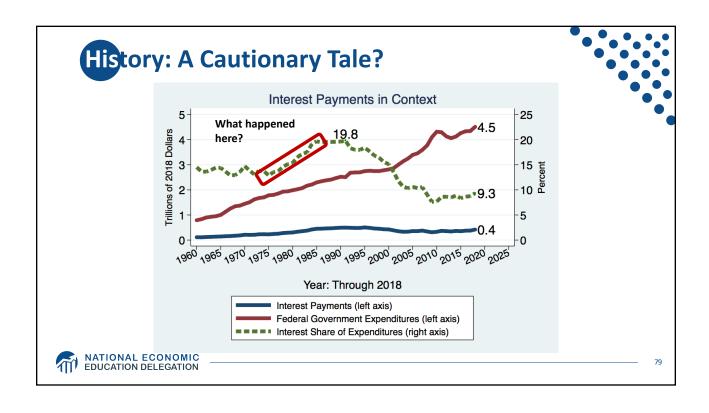
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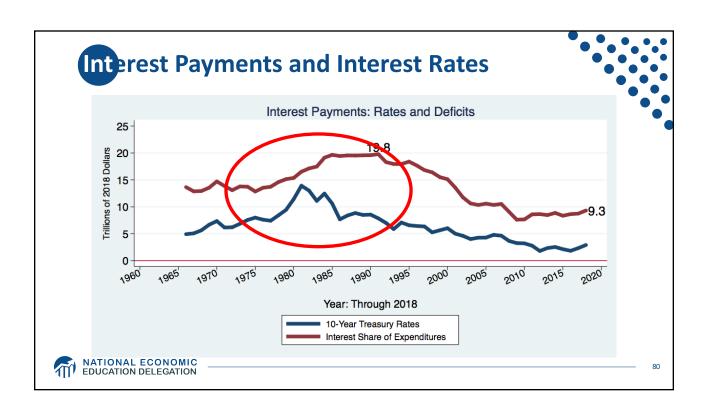
So, Why Worry About it?

• If debt continues to grow:

- Interest payments will grow with it.
 - 8% of spending in 2018.
 - o 22% of spending in 2048.
 - Less room for using the budget for policy priorities.
 - o 40% of payments go abroad.
- Interest RATES may increase.
- The longer we wait to address it, the harder and more disruptive it will be to address it.

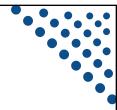








Are There Reasons to Wait?



- Very little evidence of:
 - Crowding out
 - Inflationary impact
- Uncertainty about the future
 - Economic growth may render action today unnecessary.
- There are a great many investments to be made by the gov't.
 - Infrastructure
 - Education
 - Much, much more...

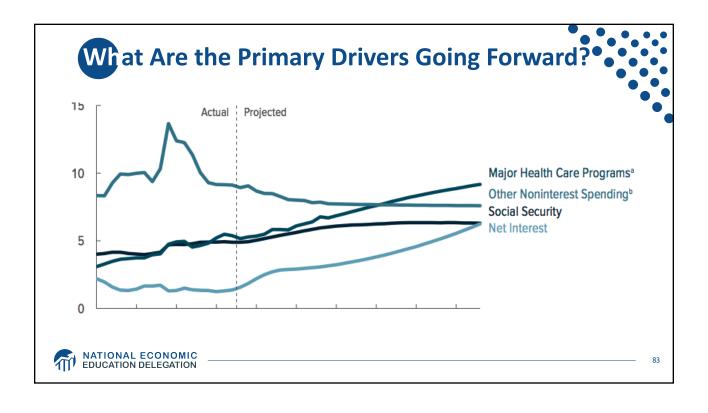


Bottom Line



- Question is not WHETHER the U.S. will have to act...
 - ...but WHEN.
- Some combination of the following **WILL** be necessary:
 - Raising taxes
 - Cutting spending
 - Reigning in health care costs



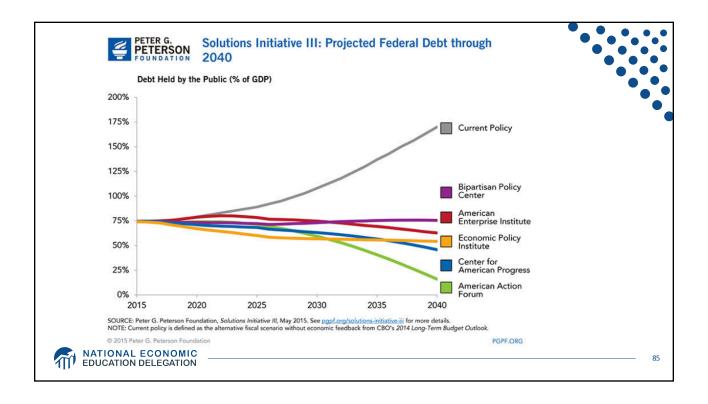


Proposals Do Exist



- Simpson-Bowles
- Domenici-Rivlin Task Force
- Solutions Initiative Peter G. Peterson Foundation
 - American Action Forum
 - American Enterprise Institute
 - Bipartisan Policy Center
 - Center for American Progress
 - Economic Policy Institute





Summary: The Debt

- The jury is (sort of) out on the debt.
- Conventional wisdom is being challenged:
 - Previously: inflationary and crowd out private investment
 - New assertion: these things don't matter for a country that can borrow in its own currency.
- Upshot?
 - This is a policy choice.
 - The cautious approach is to reign in the debt.
 - The cautious approach may lead to slower economic growth.







Any Questions?

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