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

# **Lecture 2: The Federal Budget**

March 26, 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.





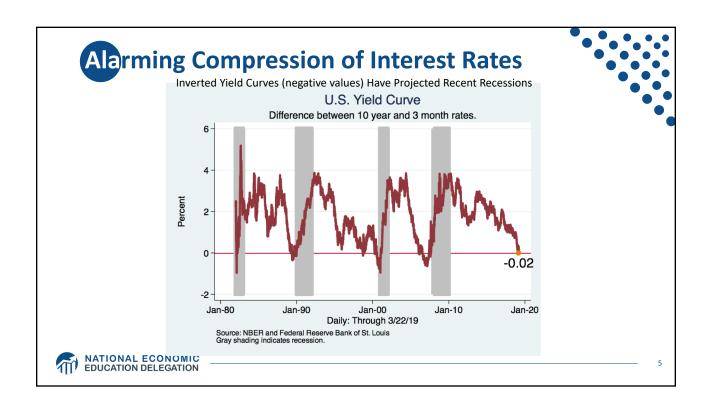


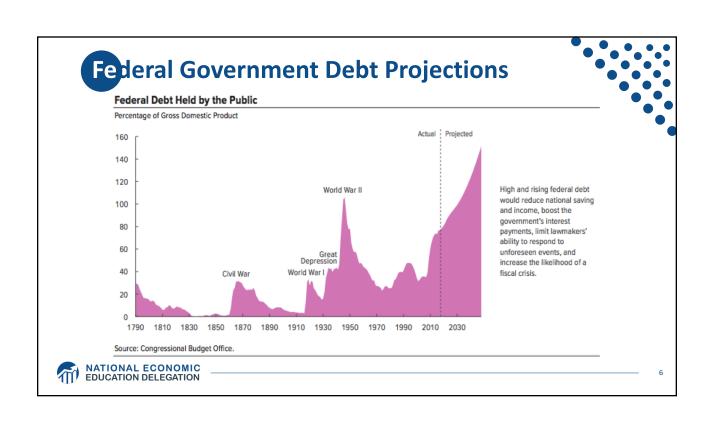
### Things to Be Worried About



- Stock Markets
- Yield Curve
- Government Debt
- Declining Labor Force
- Income and Wealth Inequality
- Policy Uncertainty
  - Trade and immigration policy, especially







# Overall Summary

- Tailwinds and headwinds both exist
  - 2019 and 2020 forecasts are increasingly pessimistic.
- There remains room for the economy to grow
  - Labor force growth is available.
  - Consumption has room to grow, but there is evidence of slowing.
  - Business investment may be slowing.
  - Return to productivity growth? But how? What's the next big idea?
- Long term concerns unaddressed
  - Demographics, climate change
  - Federal government debt
  - International trade policy



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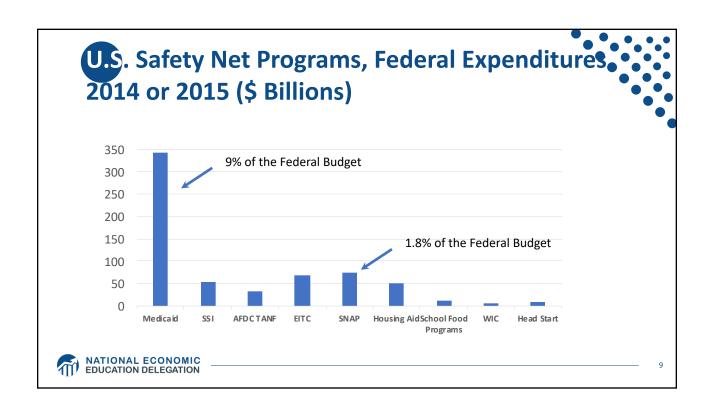
### **Teasers: Upcoming Lectures**

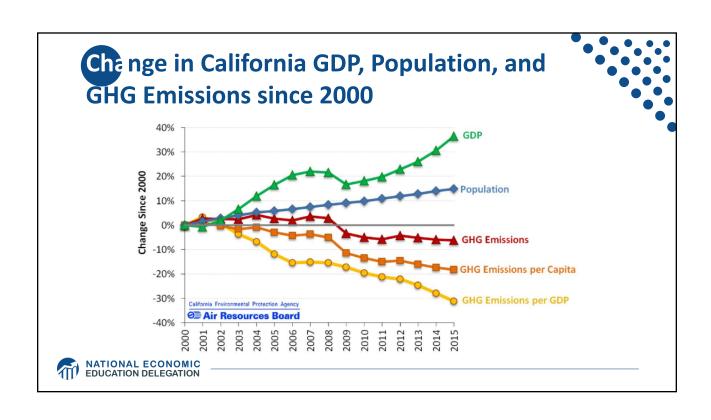


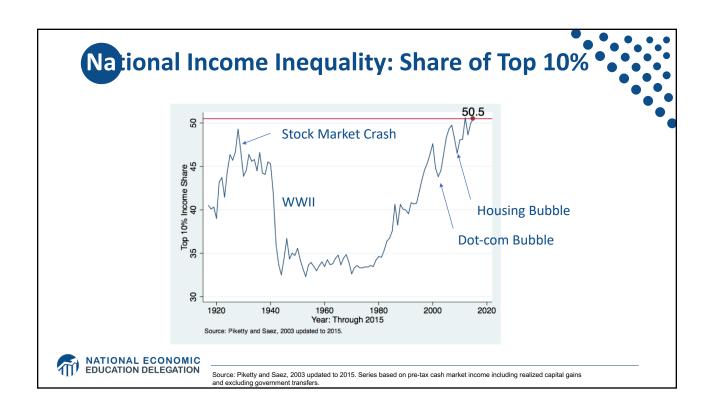
- Government Budgets
- Social Safety Net
- Climate Change

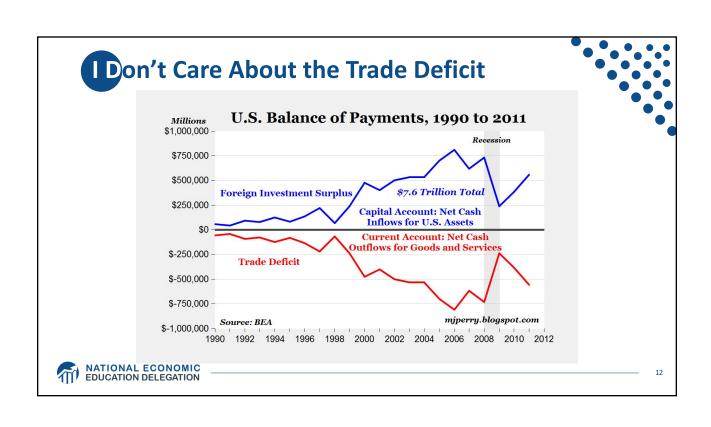
- Income Inequality
- Trade and Globalization
- Housing Policy

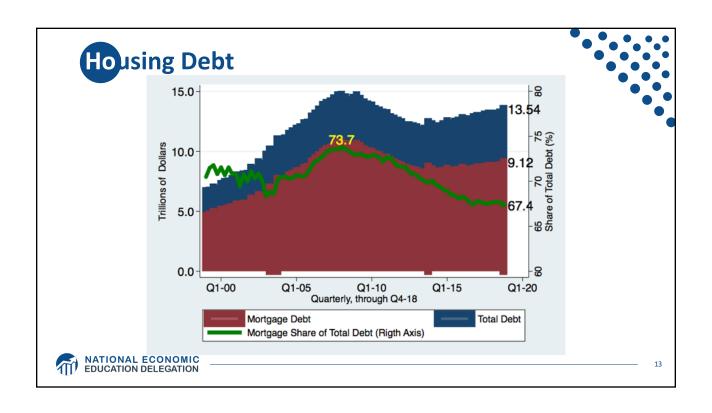


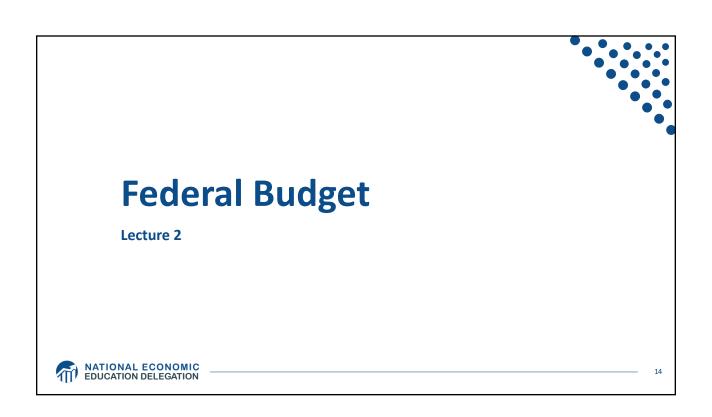






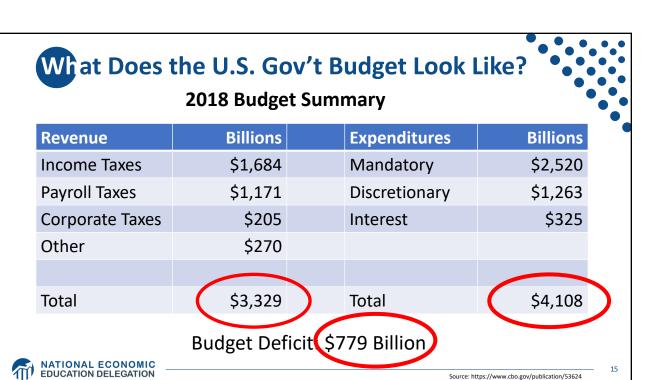






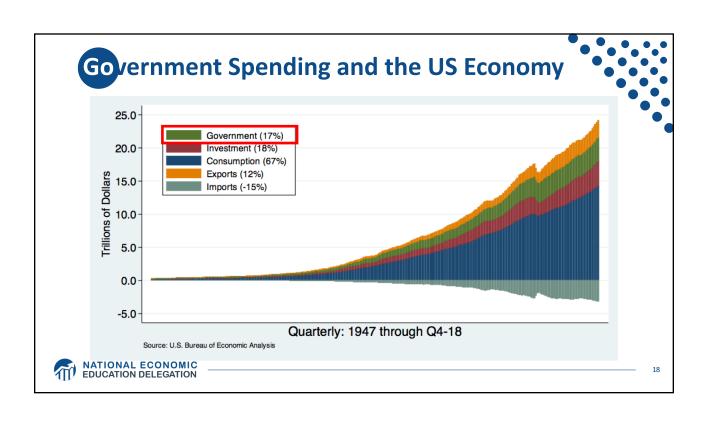
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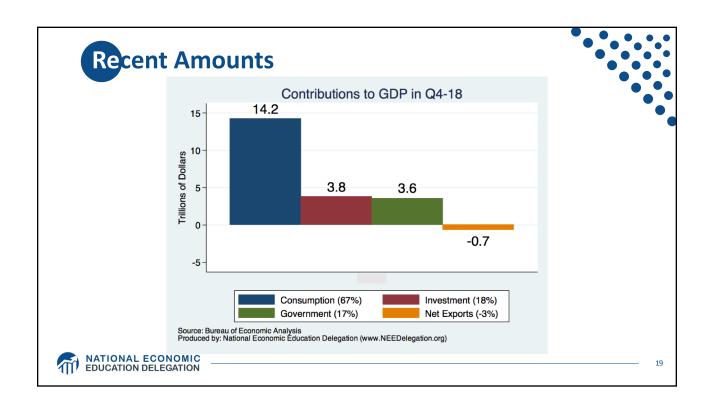
Source: https://www.cbo.gov/publication/53624

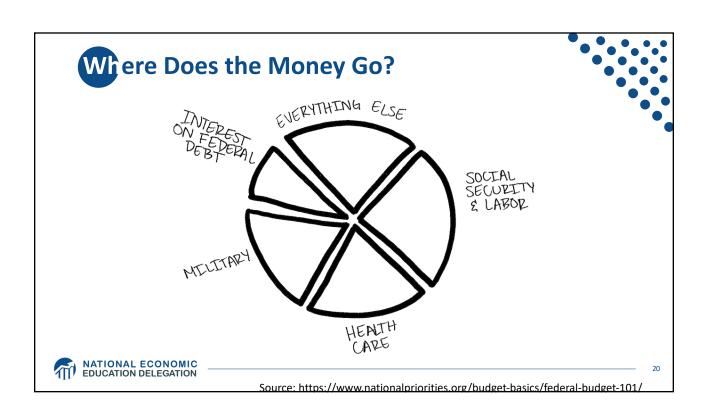


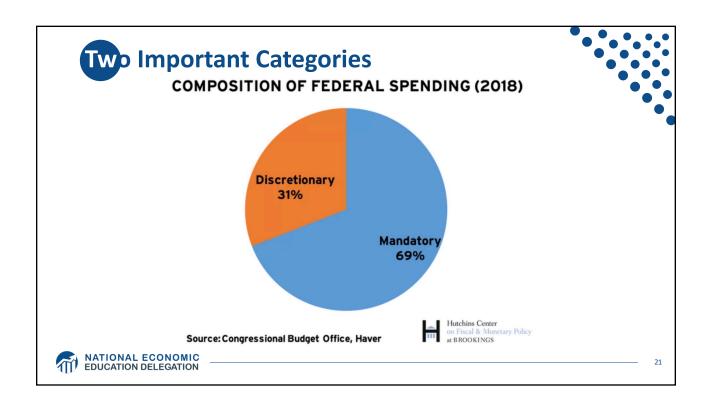


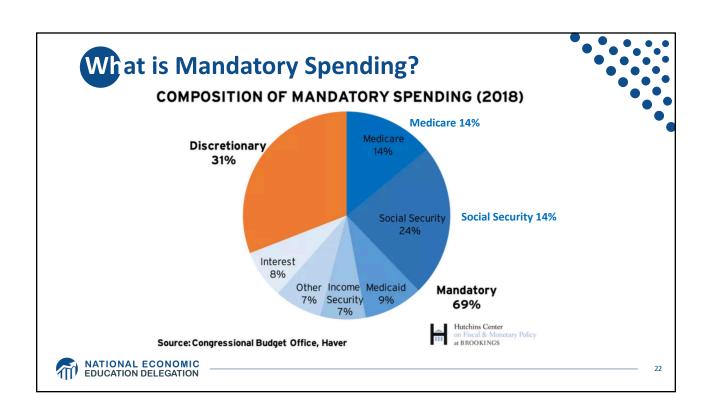
















**Key Question:** 

Who pays?

### Retirement

- 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.



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# Where Do Social Security Funds Come From?

### Payroll taxes

- Tax rates:

Employee: 6.2% Employer: 6.2%

Self Employed: 12.4%

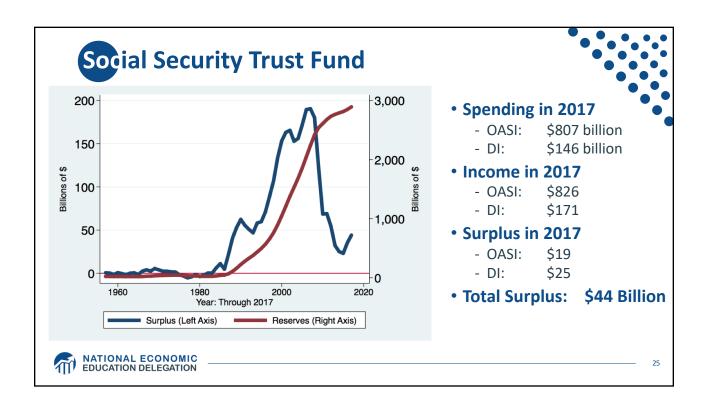
- Cap in 2019: \$132,900

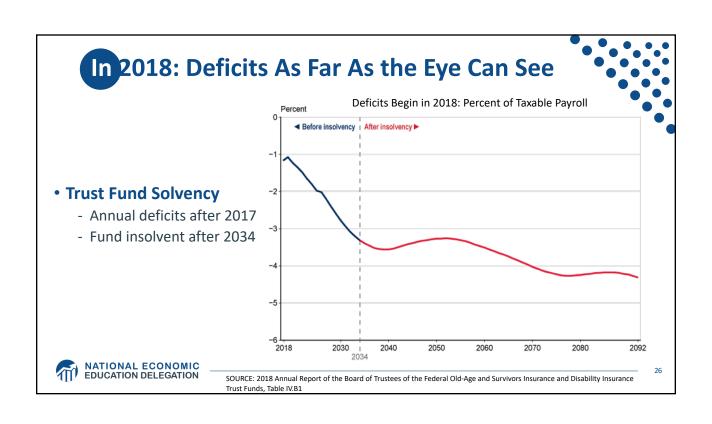
### Taxes on OASDI benefits

- Not all benefits are taxed.

### Interest earnings









- Raise the retirement age
- Increase the tax rate
- Raise the amount of income subject to tax
- Reduce benefits



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# **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.







### Payroll taxes

- Tax rates:

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

- No Cap

- Interest earnings
- General revenues
- Beneficiary premiums



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# Medicare Finances in 2018



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



# Mandatory Spending: Medicaid (9%)

- come
- 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 Billion- States: 38.5% \$222.0 Billion

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



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# Mandatory Spending: Income Security (7%)

• EITC

Housing

• SNAP

• WIC

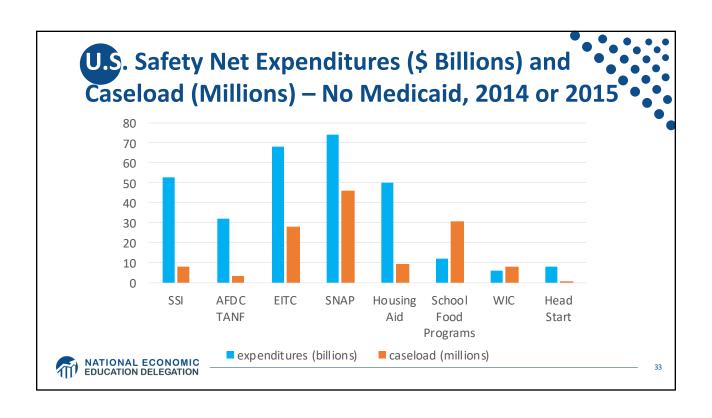
• SSI

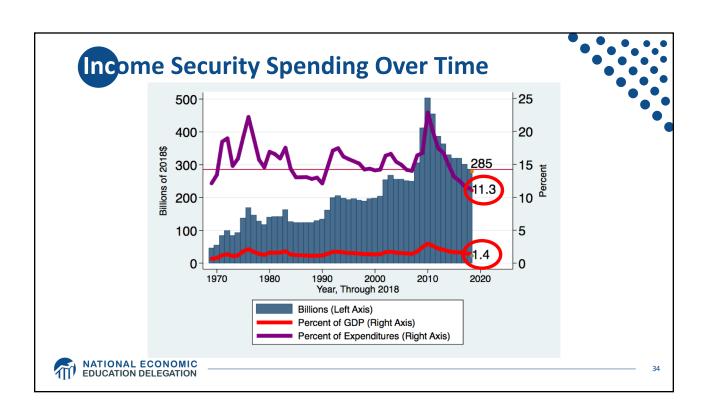
School Lunches

TANF

Head Start







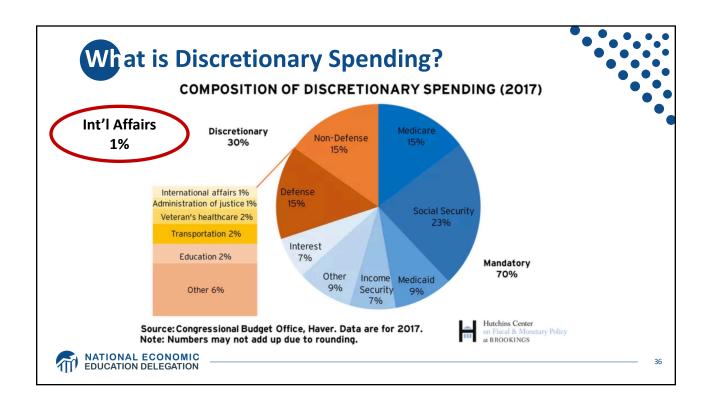




- Interest costs in 2018: \$325 Billion
  - 1.6% of GDP, or 8% of the Federal Budget
- Forecast to increase to \$928 Billion in 2029
  - 3.0% of GDP, or 22% of the Federal budget



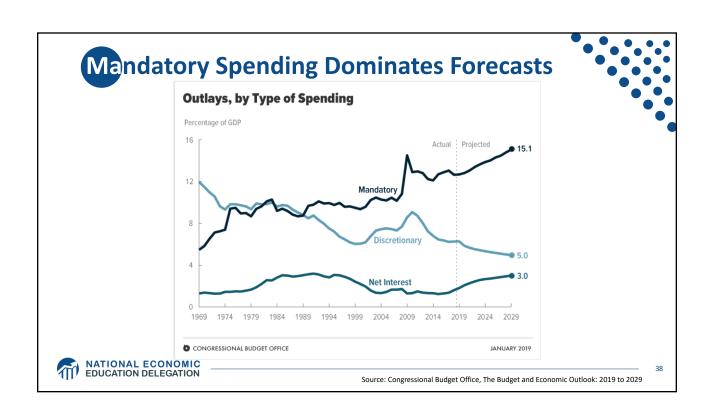
Source: CBO, January 2019 Budget Projections

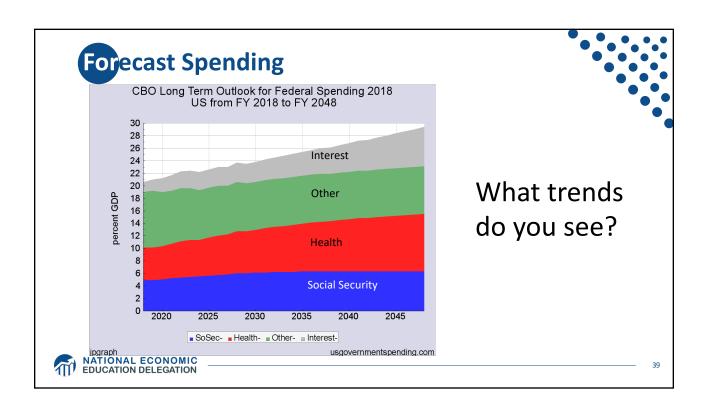


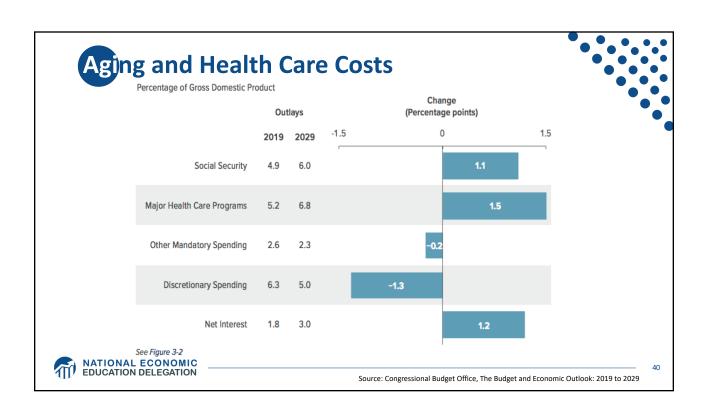
# **Discretionary Spending: Other (6%)**

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.

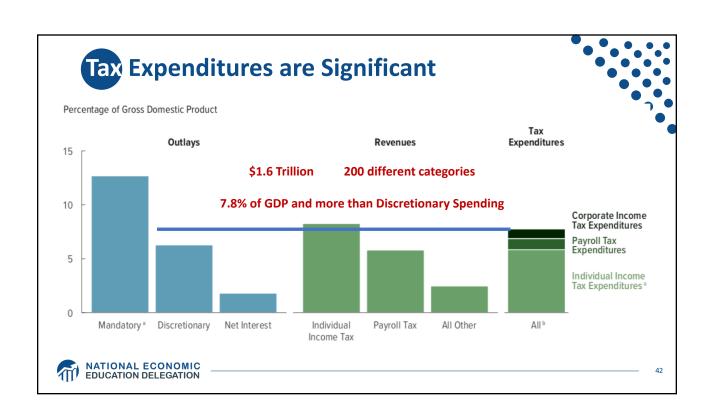
### List of the largest tax breaks:

- 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





	Percent Change in After-Tax Income due to Tax Expenditures, 2007 (with no AMT)*								
	Tax Exclusions	Lower capital gains and dividends rates	Itemized deduction		Non- refundable credits	Refundable credits	All provisions		
Bottom 20 percent	0.54%	0.00%	0.02%	0.01%	0.05%	5.81%	6.97%		
Second 20 percent	Income	Group		Bene	fits	5.26%	8.89%		
Middle 20 percent	Bottom 20%			7.0	%	2.25%	7.25%		
Fourth 20 percent		. 2070		,	, ,	1.00%	7.28%		
Top 20 percent	Top 209	Top 20%			3%	0.25%	12.82%		
Total Cost (no AMT)	\$326 billion	\$99 billion	\$153 billion	\$6.6 billion	\$11.3 billion	\$89 billion	\$746.7 billion		
Total Cost (with AMT)	\$344 billion	\$96 billion	\$154 billion	\$6.4 billion	\$8.2 billion	\$89 billion	\$760.5 billion		

### Important things that people get from govt

ovt

- 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



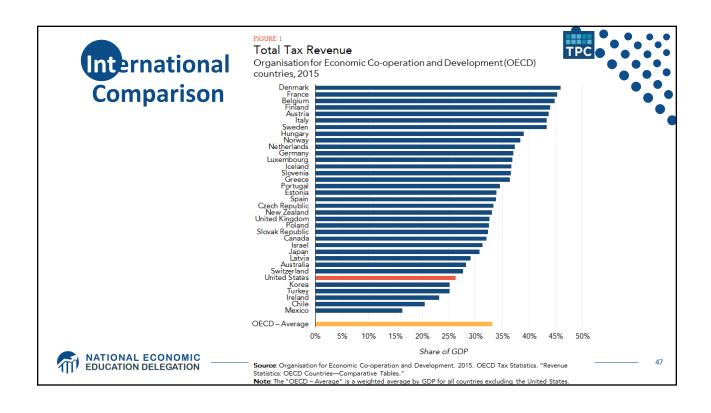


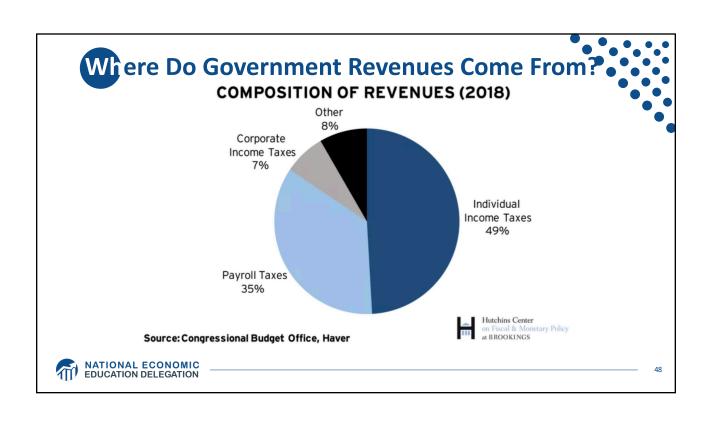
### **US Government Revenues**

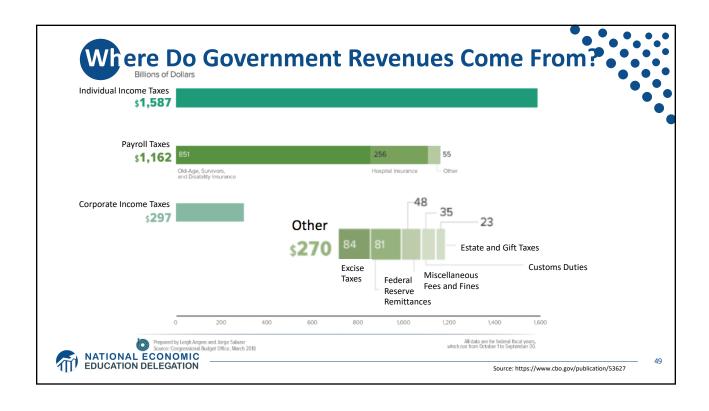


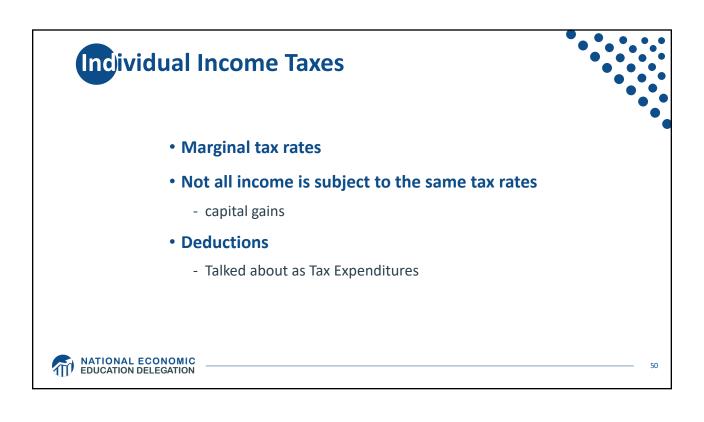
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### Federal Government Revenues in 2017 Funds collected from the public that arise from the government's exercise of its sovereign powers REVENUES, \$3.3 TRILLION \$1.6 \$3.3 17.3% SPENDING, \$4.0 TRILLION Trillion Trillion Mandatory \$2.5 T S1.2 T Revenues received Receipts from Revenues as a individual income taxes, by the federal percentage of government in **2017** the largest source gross domestic of revenues, in 2017 product in 2017 U.S. GDP: \$19.5 Trillion NATIONAL ECONOMIC EDUCATION DELEGATION Source: https://www.cbo.gov/publication/53627







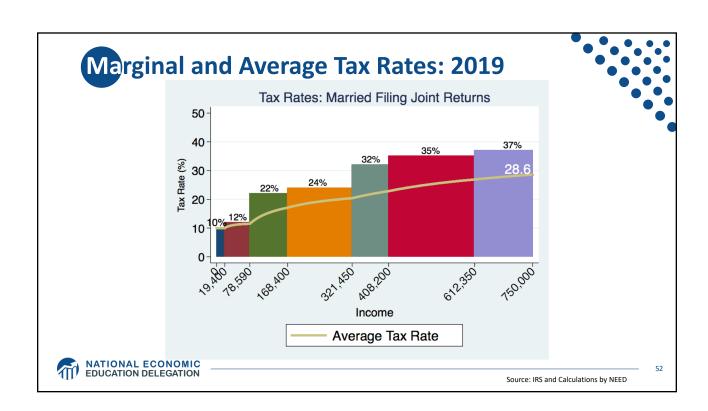


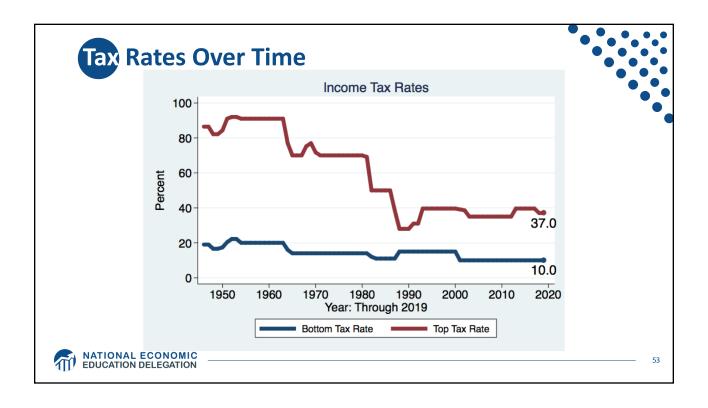
# Marginal Tax Rates: Married Filing Jointly

- 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%











- 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)

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



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# Revenues: Other (8%)



- Miscellaneous Fees and Fines
- Customs Duties
- Estate and Gift Taxes

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



# **Estate Taxes**

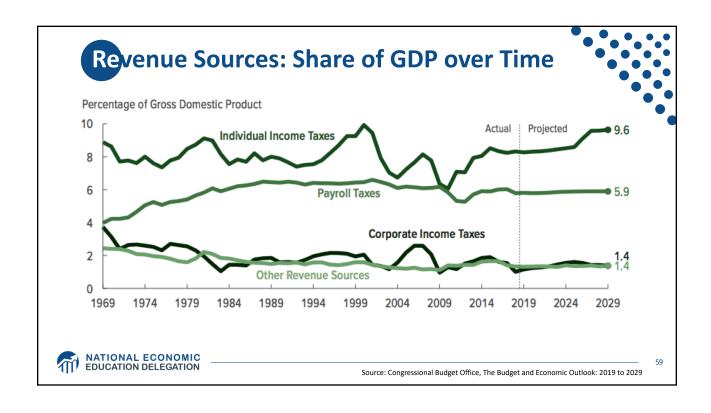


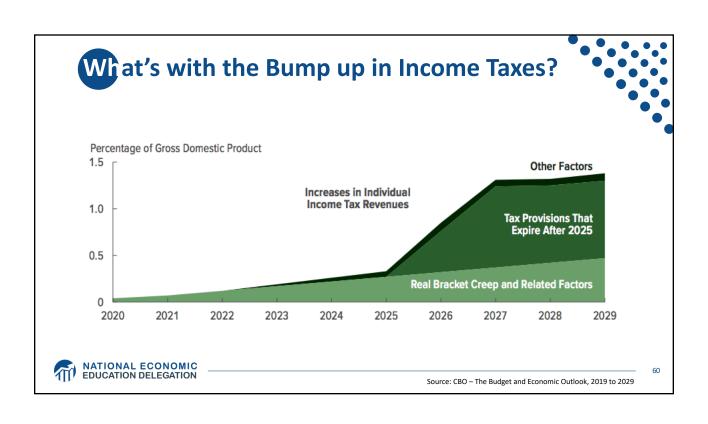
- \$23B in revenues in 2018
- Exemption: \$11.2 million for singles \$22.4 million for couples
- Tax rate: 40%
- Top 10% pay more than 90%, Top 1% pays nearly 40%
- 1,900 estates
- Businesses and farms: 140 subject to tax
  - No Small businesses or farms because of the \$11.2 million exemption

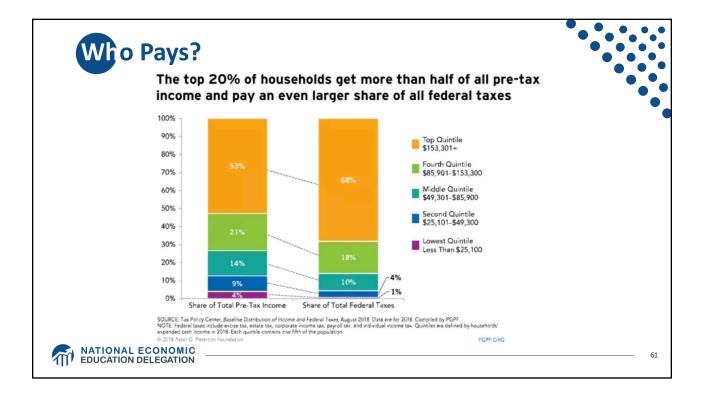


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# Effective Federal Excise Tax Rate for Different Income Groups (2007) \*\*End of the Pederal Excise Tax Rate for Different Income Groups (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Groups (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Groups (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Groups (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Groups (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Groups (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Groups (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Groups (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Groups (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (2007) \*\*Account of the Pederal Excise Tax Rate for Different Income Group (20



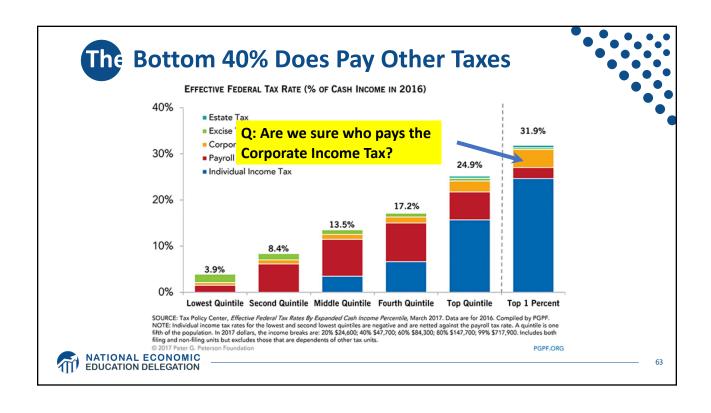


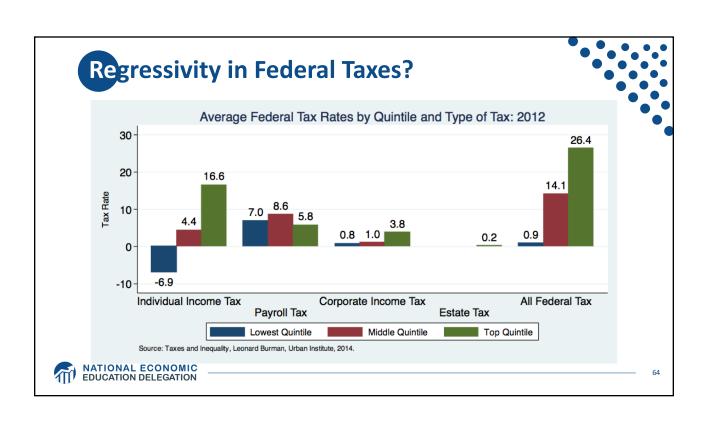


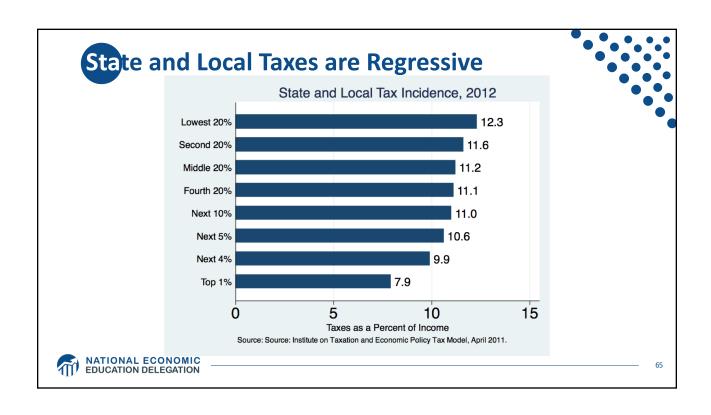
# The Bottom 40% Don't Pay Income Taxes

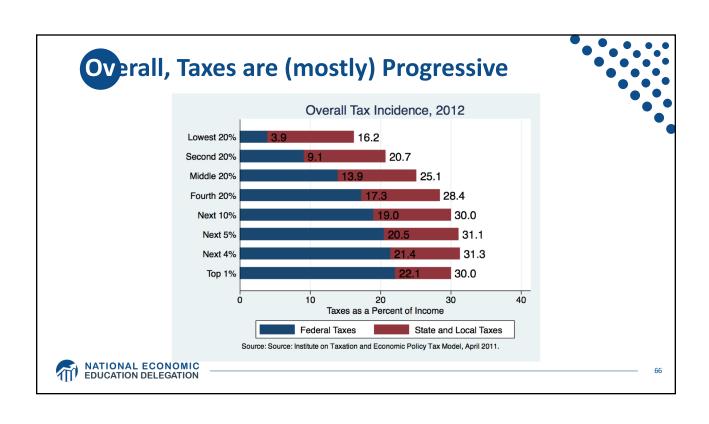
- There is a common narrative that the bottom 40% don't pay income taxes.
- But they pay other taxes and they also pay state and local taxes
  - Payroll,
  - State and local taxes
  - Excise taxes see the slide 4 slides ago
- Does it matter from what tax revenues are derived?
- Should the income tax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



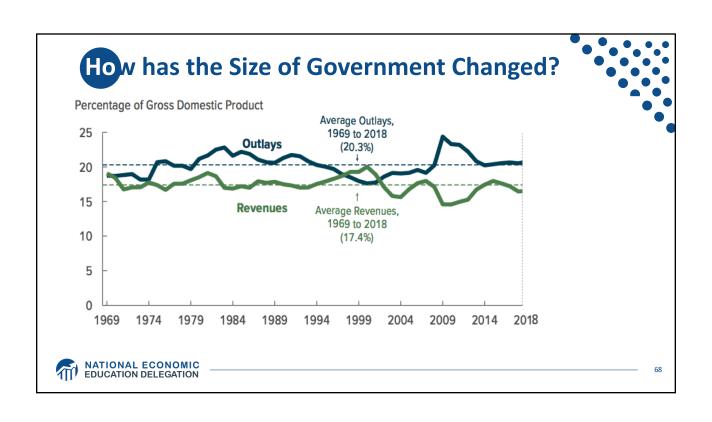








2018 Budget Summary								
Revenue	billions	Expenditures	billions					
Income Taxes	\$1,684	Mandatory	\$2,520					
Payroll Taxes	\$1,171	Discretionary	\$1,263					
Corporate Taxes	\$205	Interest	\$325					
Other	\$270							
Total	\$3,329	Total	\$4,108					



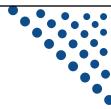
# Buget Summary: Slide 1

- 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



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### **Buget 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



# **Buget 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".



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# **Government Debt**



# **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.



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# Of Debt, Deficits, and Surpluses



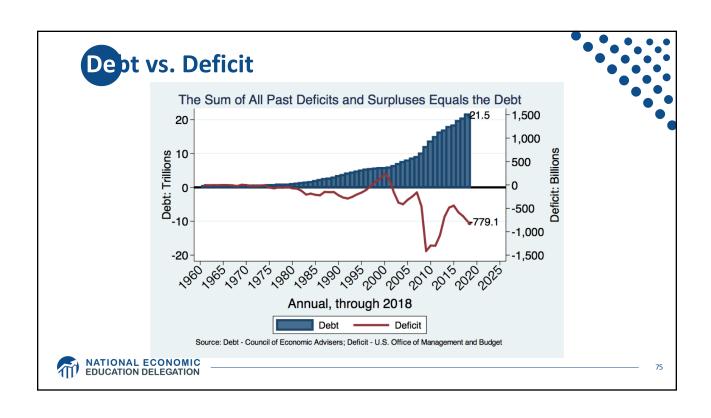
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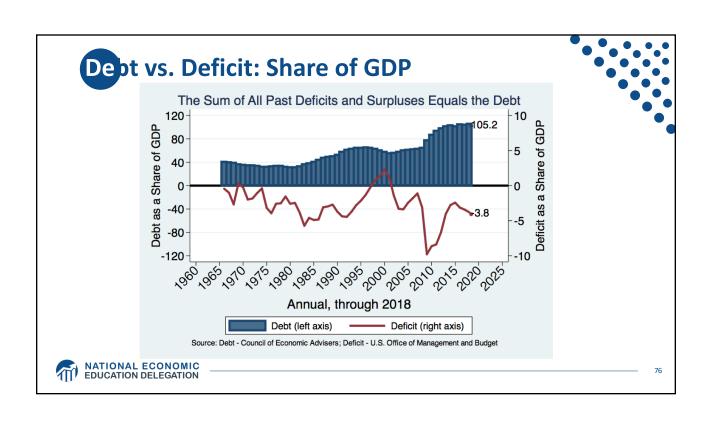
- Debt: The accumulation of debt over time.
  - The sum of all past debts and surpluses.

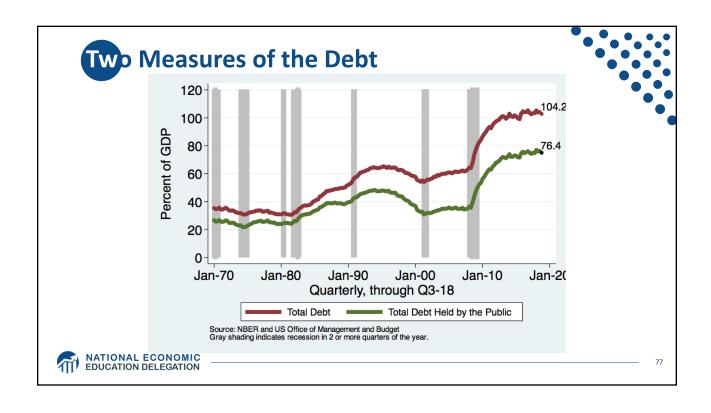
#### • FLOW

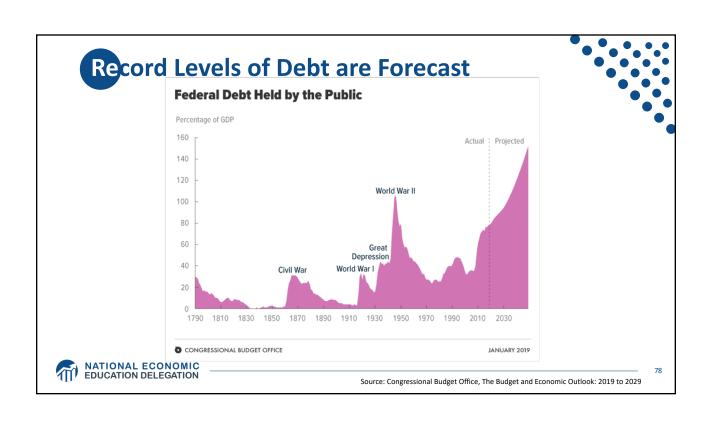
- Deficit: The amount of debt accrued in a single year.
- Surplus: The excess of revenues over expenses in a single year.

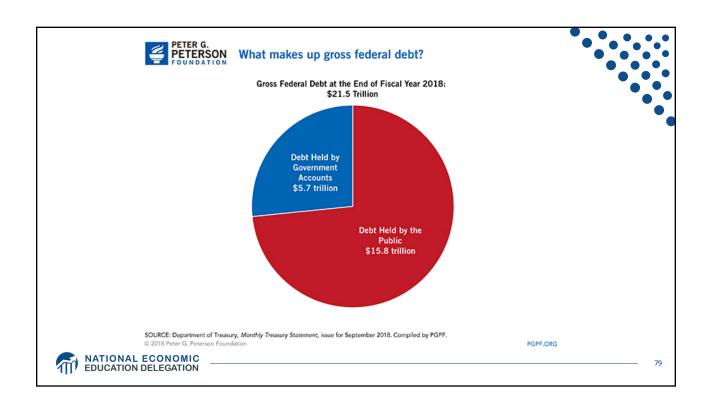


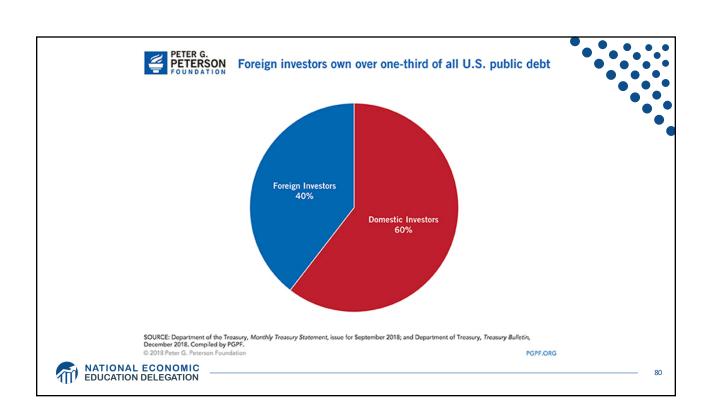


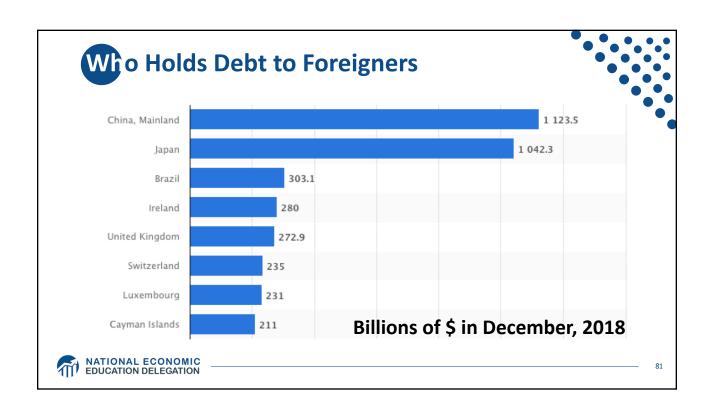


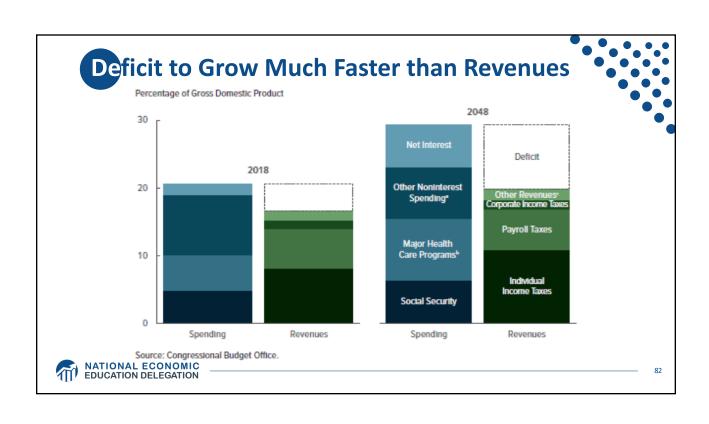


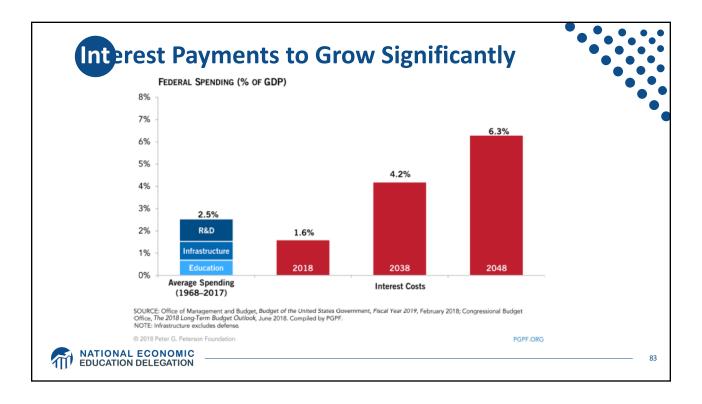












# Perspectives on Increased Debt

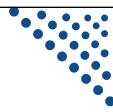
- Weakened by ability to borrow from abroad

- Government borrowing crowds out private capital and investments.
- 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.





## 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
    - Government salaries
    - Retirement benefits
  - Tax breaks of uncertain benefit to the broader economy.



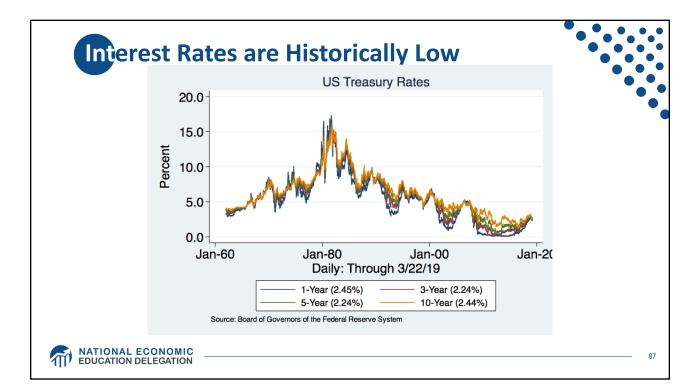
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# Is the Debt a Problem Today?



- 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".







- 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.
    - o 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.



# So, Why Worry About it?



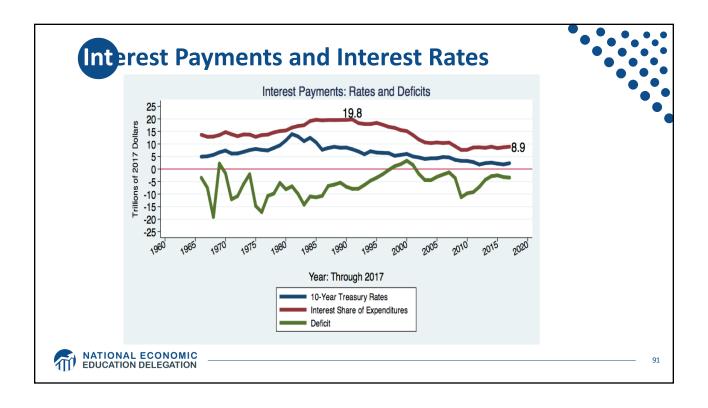
## • If debt continues to grow:

- Interest payments will grow with it.
  - o 8% of spending in 2018.
  - o 22% of spending in 2048.
  - o 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.



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## **History: A Cautionary Tale?** Interest Payments in Context 25 5 Trillions of 2017 Dollars 20 15 te ·10 Å 2 -5 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010 2015 2020 2025 Year: Through 2017 Interest Payments (left axis) Federal Government Expenditures (left axis) Interest Share of Expenditures (right axis) NATIONAL ECONOMIC EDUCATION DELEGATION







- 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



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# What Are the Primary Drivers Going Forward? Actual Projected Major Health Care Programsa Other Noninterest Spendingb Social Security Net Interest NATIONAL ECONOMIC EDUCATION DELEGATION

# **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



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# **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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