

## The US Federal Debt

Fellowship Forum August 25, 2020

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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.



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# Who Are We?

## Honorary Board: 48 members

- 2 Fed Chairs: Janet Yellen, Ben Bernanke
- 6 Chairs Council of Economic Advisers
  - o Furman (D), Rosen (R), Bernanke (R), Yellen (D), Tyson (D), Goolsbee (D)
- 3 Nobel Prize Winners
  - o Akerlof, Smith, Maskin

## • Delegates: 500+ members

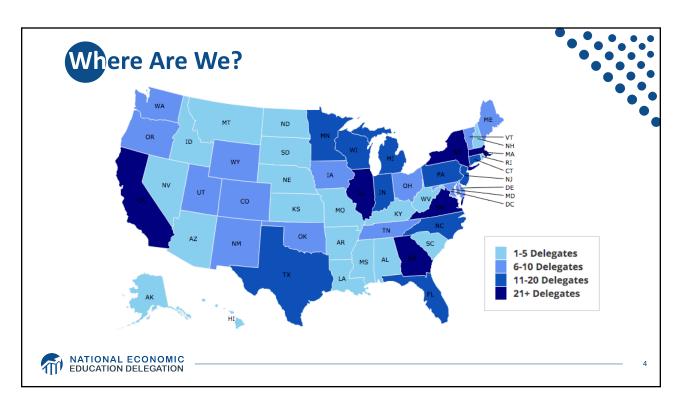
- At all levels of academia and some in government service
- All have a Ph.D. in economics
- Crowdsource slide decks
- Give presentations

## • Global Partners: 45 Ph.D. Economists

- Aid in slide deck development



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#### I. Debt Basics

- 1. Definitions and Data.
- 2. Debt/Deficit History: pre and post 1983.
- 3. Debt Dynamics

#### **II. Economic Costs of the Debt**

- 1. Traditional View
- 2. Two New Optimistic Views
  - 1. Modern Monetary Theory (MMT): Federal Debt Free Lunch!
  - 2. Olivier Blanchard: Stable debt has little cost.
- 3. A Scarier (More Realistic) View with a Silver Lining

## III. Covid Update and the Path Forward



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# What Does the U.S. Gov't Budget Look Like?

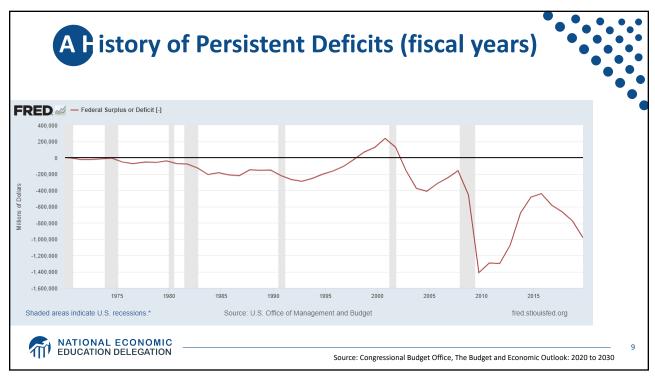
## 2019 Budget Summary

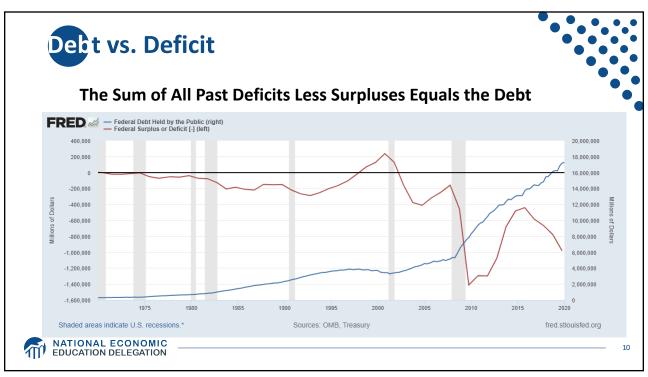
Revenue	Billions	Outlays	Billions
Income Taxes	\$1,718	Mandatory	\$2,735
Payroll Taxes	\$1,243	Discretionary	\$1,336
Corporate Taxes	\$230	Interest	\$376
Other	\$271		
Total	\$3,462	Total	\$4,447

Budget Deficit \$984 Billion

Source: Congressional Budget Office, The Budget and Economic Outlook: 2020 to 2030

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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
- Savings bonds

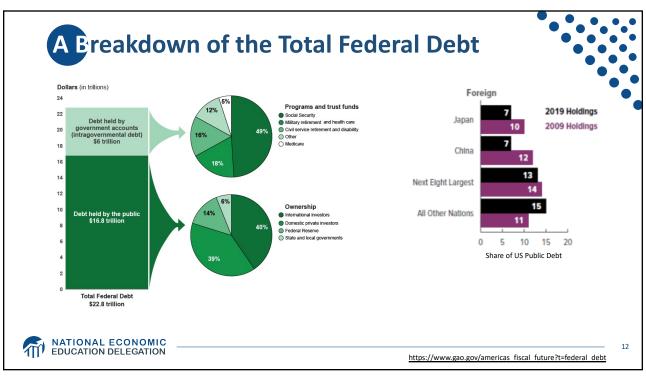
## Who buys the debt?

- Other federal government agencies
- Individuals and businesses
- State and local governments
- Foreign governments and individuals.
- The Federal Reserve



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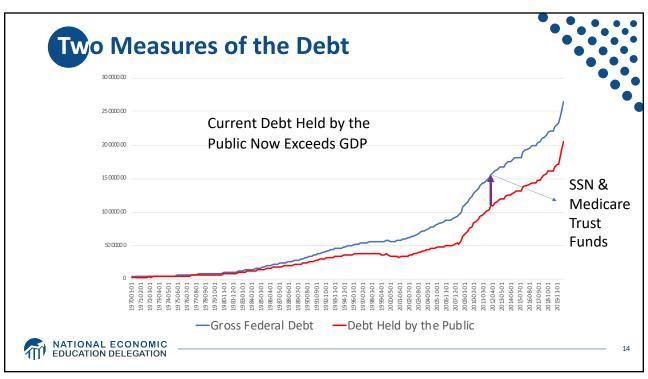


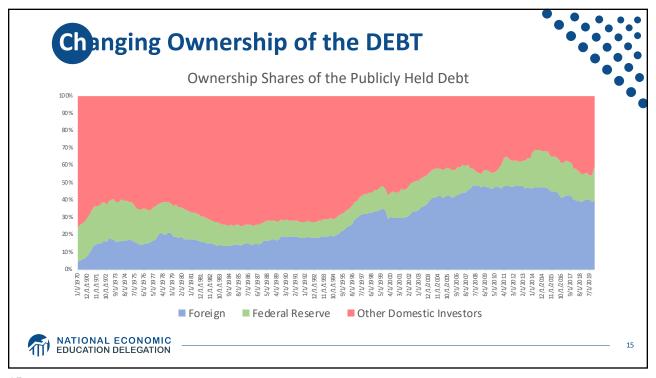


- Some debt can reduce the availability of investment funds to other borrowers.
  - Often referred to as "crowding out" private investment
- Intra-governmental debt is (important) bookkeeping.
  - This debt **DOES NOT** crowd out private investment.
- Debt held by the public
  - This debt MAY crowd out private investment.
- Most analyses of debt focus on the federal debt held by the public.



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# **CBO:** Budget Analysts in Chief

- provide
- The Congressional Budget Office was founded in 1974 to provide Congress with information about the budgetary implications of legislation.
- Two kinds of Reports
  - Cost Estimates HR 6036 VA Family Leave Act of 2020
  - Projections of Debt and Deficits The Budget and Economic Outlook: 2020 to 2030



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## The All Important Relative Debt



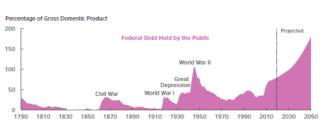
- CBO, analyzes the debt relative to GDP because:
  - To the extent that debt and deficits have burdens these burdens depend on the size of the debt *relative* to the size of the economy.

	Total Public Debt	Relative Debt Debt/GDP		
United States	\$17.0 Trillion	80%		
Greece	\$0.4 Trillion	176%		



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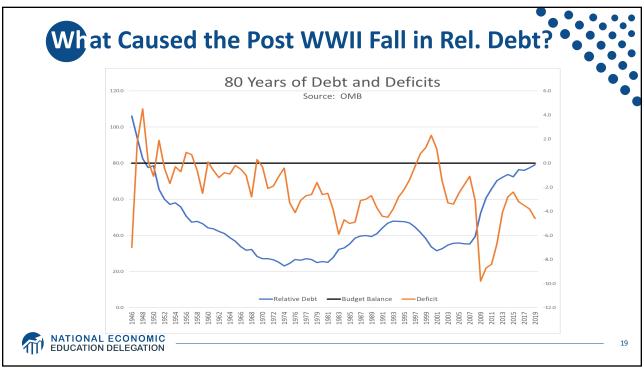
# **Key Points About the U.S. Relative Debt**

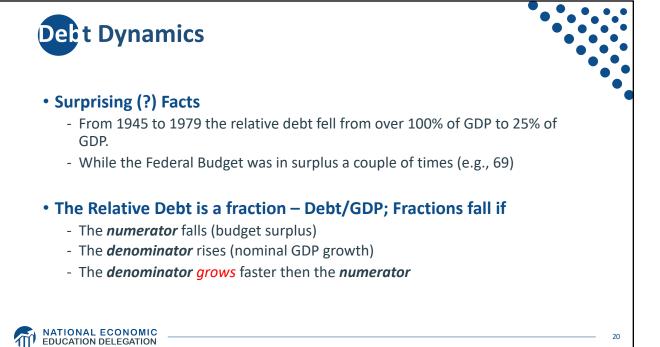


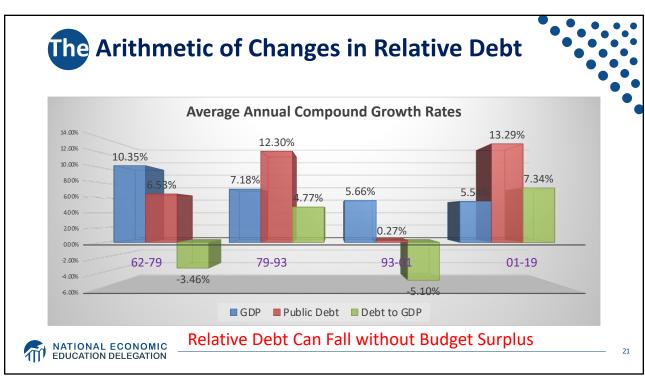


- 1. Relative debt peaked during WWII (106%) followed by a long decline.
- 2. Prior to 1983, relative debt rose purposefully (wars and recessions) and then fell.
- 3. Recently, relative debt has been and is expected to continue to rise for the next 30 years w/o strategic purpose.

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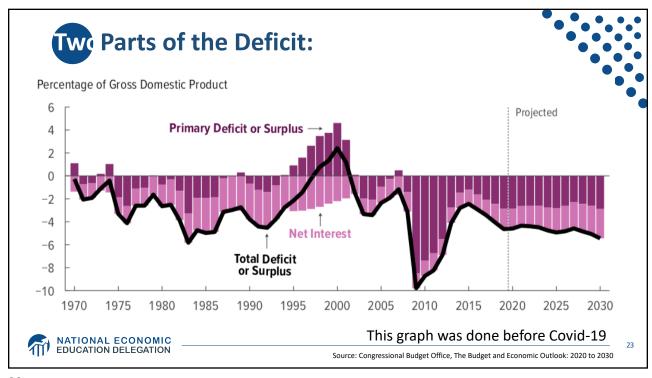




# (1) Primary deficit = current programmatic outlays - revenues (2) Total deficit = primary deficit + interest on the debt Interest on the debt is - The part of the total deficit that is due to past deficits. This distinction becomes important for understanding: - The future course of the relative debt. - The costs borne by future generations because of the debt.

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## Traditional View: A Non-Issue

- The analogy between household and government debt is inaccurate.
  - The government does not have to pay back the debt.
  - Retirees cash in maturing bonds which are financed with new bond issues sold to younger people.
  - Interest on the debt is essentially paid by the young to their parents



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# **Traditional View: 4 True Costs**



- The Treasury's borrowing needs compete with private borrowers, so that debt and deficits raise interest rates.
- Higher interest rates lead to less investment and over time to a smaller capital stock and reduced future output.
- 2. Higher interest rates lead to foreign capital inflows or foreign borrowing
  - With foreign borrowing some of the interest on the debt is going to foreigners.



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# Traditional View: 4 True Costs (Cont.)



# 3. Larger Primary Surpluses Needed to Stabilize the Relative Debt

- The larger the relative debt, the bigger the needed primary surplus.
- Thus higher taxes or programmatic outlays must be reduced.



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# Traditional View: 4 True Costs (Cont.)

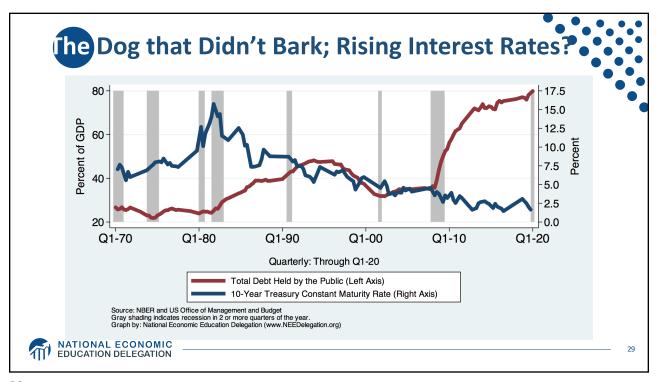


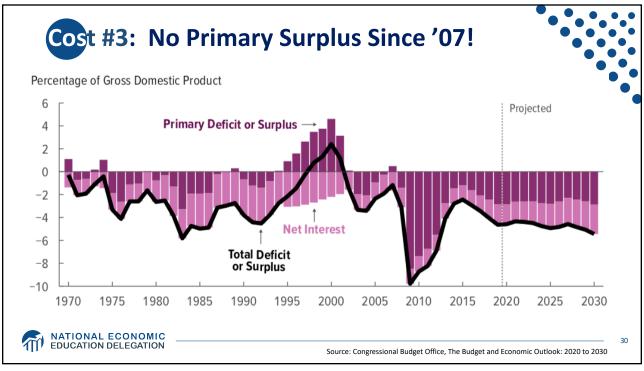
## 4. Government Bias towards higher inflation

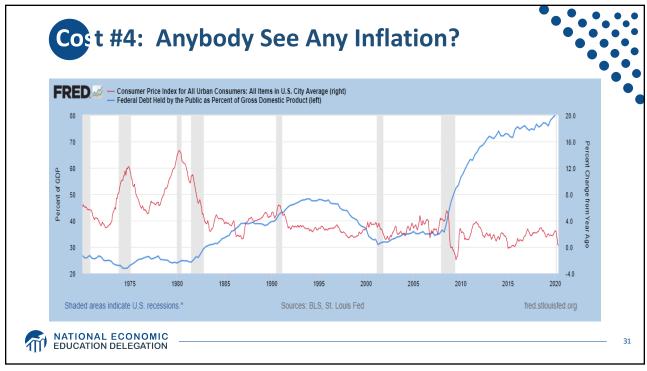
- GDP grows if either prices rise or real output rises.
- Government may be tempted to "inflate away" their debt problems.
- Or, at a minimum they may not work as hard to avoid increases in inflation



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# Maybe Debt Isn't a Problem After All: MMT

- Stephanie Kelton provided a prominent and recent exposition of Modern Monetary Theory in her June 6<sup>th</sup> NYTimes op-ed, "Learn to Love Trillion-Dollar Deficits."
  - US Treasury borrows in dollars and therefore cannot default (as opposed to Greece).
  - Example: How did we "find the money" for the recent increase in the deficit of about \$1.9 trillion?
  - Answer: Fed open market purchases of \$1.7 trillion provided 89% of the financing.
  - More generally, she argues that we can always find the money to increase federal spending



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- The only limit on deficit spending is if it leads to too much spending thereby increasing current inflation.
- Recognizing this fact, "...could free policymakers not only to act boldly amid crises but also to invest boldly in times of more stability."
- Too bad the second part isn't true



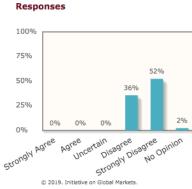
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# o't Just Take My Word for It

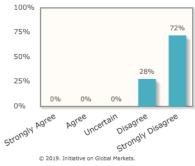
Question A: Countries that borrow in their own currency should not worry about government deficits because they can always create money to finance their debt.



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Source: IGM Economic Experts Panel
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# Responses weighted by each expert's confidence



Source: IGM Economic Experts Panel www.igmchicago.org/igm-economic-experts panel

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## A N ore Reasonable, But Still Optimistic View



#### **Olivier Blanchard:**

- Emeritus Professor MIT
- Chief Economist at the IMF, 2008-2015
- President of the American Economic Association, 2018



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## **AEA** Presidential Address, 1/2019



"If the future is like the past [with low interest rates],...the issuance of debt without a later increase in taxes may well be feasible. Put bluntly, public debt may have no fiscal cost."

#### But.

"My purpose...is not to argue for more public debt, especially in the current political environment. It is to have a richer discussion of the costs of debt...than is currently the case."





- Stabilizing the Relative Debt, Debt/GDP, requires that the growth rate in debt equals the growth rate of GDP.
- The growth rate in debt has 2 parts:
  - 1. The growth rate from interest on the debt, or just the interest rate.
  - 2. A contribution due to the primary surplus (-) or deficit (+).
- The traditional view assumes that the interest rate on debt is greater than the growth rate of GDP
  - So, 2. must be negative to offset excess of 1.
  - i.e., debt stabilization requires a primary surplus.



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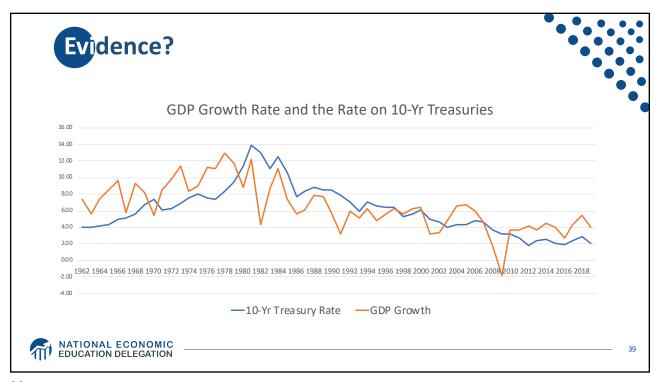
# An Almost Free Lunch

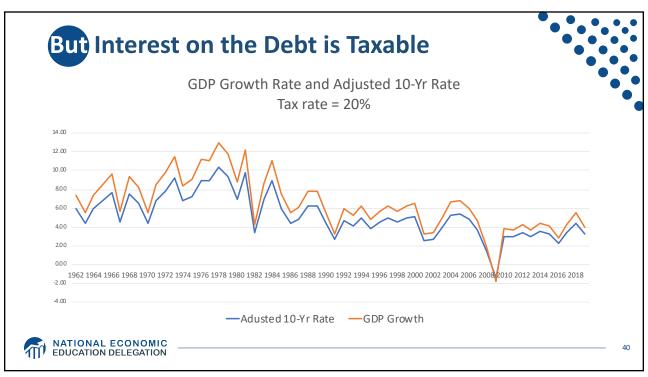


- If the interest rate is *less* than the growth rate of GDP, then the contribution from the primary budget can be positive, or
- Debt to GDP can be stabilized with a (small) primary deficit.
- Blanchard is not MMT (when the crisis is over)
  - 1. Relative Debt must be stabilized;
  - 2. Primary deficit must be reduced,
  - 3. But it may not crucial at what level of debt we stabilize.



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## A New and Possibly Catastrophic Cost



- MMT is right that for practicable purposes the US cannot default on its debt, but...
- International investors can still lose if the exchange value of the dollar falls.
- Remember, foreign holdings of the public debt amount to 40 percent of the total



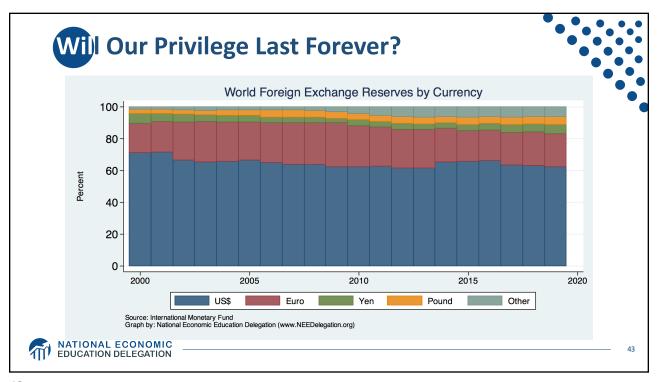
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# Why do Foreigners Buy US Treasuries?



- Market for Treasuries is the deepest, most liquid capital market in the world.
- US economy has a history of political and economic stability.
- We enjoy "An exorbitant privilege" (Valery Giscard d'Estaing): The dollar is the largest international reserve currency.
  - Most trade transactions are quoted in dollars, e.g., oil.
  - With some exceptions, foreigners borrow in dollars. E.g., Yankee bonds





# Fiscal Crisis, or a Run on the Dollar

- ose confidence in
- With an exploding relative debt, what happens if foreigners lose confidence in the stability of the dollar?
- CBO (Federal Debt: A Primer, March 2020):

...,because the United States currently benefits from the dollar's position as the world's reserve currency and because the federal government borrows in dollars, a financial crisis—similar to those that befell Argentina, Greece, or Ireland—is less likely in the United States.

Although no one can predict whether or when a fiscal crisis might occur or how it would unfold, the risk is almost certainly increased by high and rising federal debt.

Crises in Confidence, in addition to being unpredictable, happen very quickly.



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# Bottom Line: We Need to Worry about the Deb

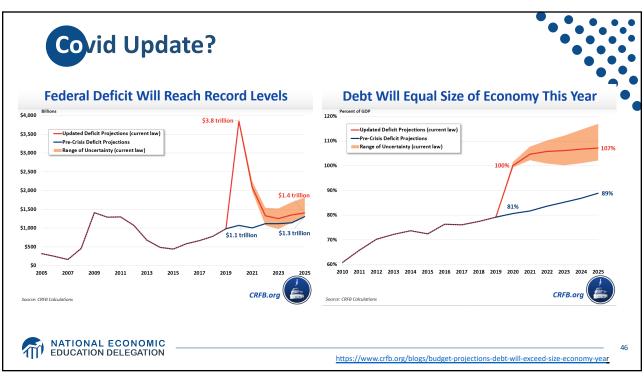
- 1. Interest rates may not stay this low forever.
- 2. A fiscal crisis should be avoided at all costs.
- 3. The good news is we may be able to stabilize the relative debt without a primary surplus.
- 4. Stabilizing the relative debt would substantially reduce the possibility of the crisis

But, we must substantially reduce (after the pandemic is over) the primary deficits.

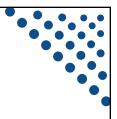


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# From a Republican Deficit Hawk

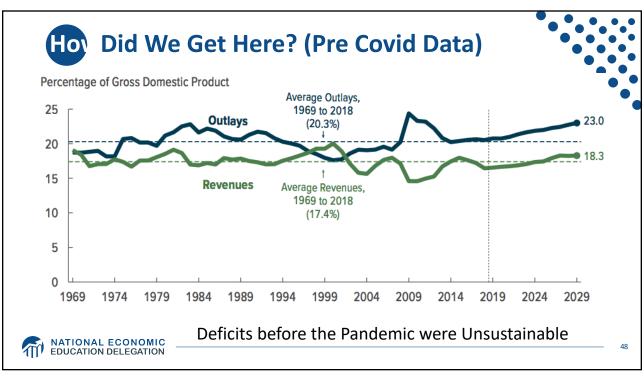


• "I'm a fiscal hawk from way back, and all of my heebie-jeebies are going off when I see these numbers," said Douglas Holtz-Eakin, a Republican who used to head the Congressional Budget Office and is president of American Action Forum. "But then I look at the scale of the problem, and I think, yeah, that's that. Gotta do it." *Politico*, 4/29



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# **Bottom Line Takeaways**



- Herb Stein, an expert on fiscal policy and the Chair of Richard Nixon's Council of Economic Advisors, is famous for observing: "If something cannot go on forever, it will stop." A rising and accelerating ratio of debt-to-GDP cannot go on forever. How does it stop?
  - 1. Fiscal Crisis.
  - 2. Reductions in the Primary Deficit.



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# **Any Questions?**



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# **Budget Consequences of an Aging Population**

## Contributions to the Federal Deficit: % of GDP

	2020	2031-2040	Change
Social Security	-0.4	-1.7	-1.3
Medicare	-1.7	-3.4	-1.7
Other	-2.5	-1.9	+0.6
Deficit	-4.6	-7.0	-2.4



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# Takeways (Continued)



- Given the fiscal challenges of an aging population and climate change, it is better to do this sooner rather than later.
- The particular combination of spending cuts and revenue increases is a political question.
- But high debt levels should not deter:
  - Productive infrastructure investment.
  - Fiscal responses to crises.



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## Fec Makes an Open Market Purchase of 40

		All Banks			Federal	Reserve	
	Assets		Liabilities		Assets		Liabilities
Reserves		Deposits	_	TBonds		Reserves	
	140		1000		280		100
TBonds						Currency	
	260						150
		NW				NIVA/	
Loans	780	INVV	80			NW	20
	780	l	80			1	30

Then I would tell the story about how banks with excess reserves would expand loans and deposits.

But in the new world since 2008 bank don't make more loans because of excess reserves.

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