

The US Federal Debt

OLLI – Aquinas College 1/25/2022

Geoffrey Woglom Amherst College Professor of Economics (emeritus)





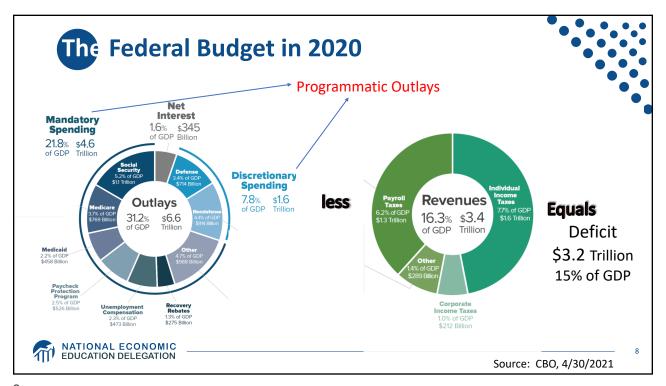
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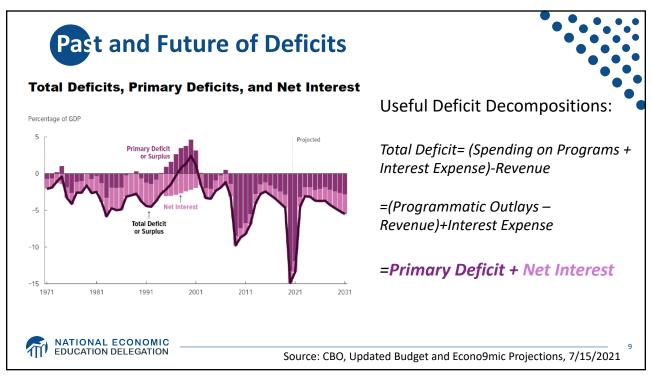


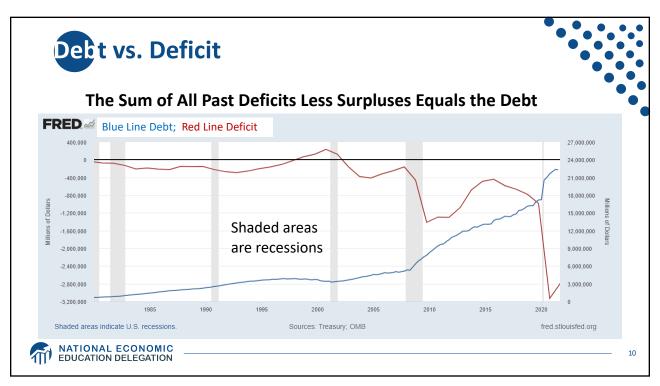
- Basic Data, Definitions and History.
- Arithmetic of Changes in the Debt.
- Traditional Views of the Economic Costs of the Debt.
- 5-minute break!
- New Views on the Cost of the Debt.
- The Challenges Ahead.
- Budget Reconciliation Games.

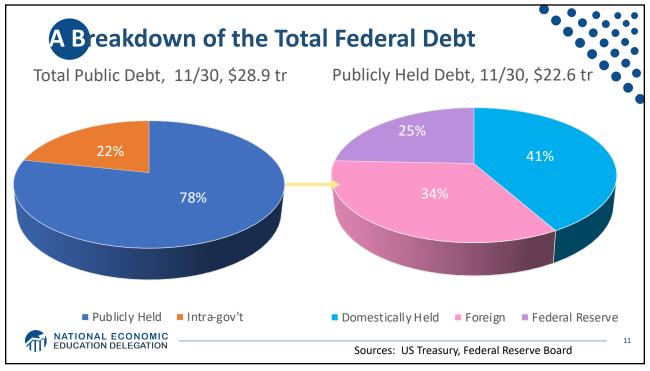


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Intra-governmental debt is important bookkeeping.

- This debt **DOES NOT** require funding on credit markets
- Debt held by the public
 - This debt is funded by borrowing on credit markets and competes with private funding.
- Most analyses focus on the publicly 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.



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CBO: Budget Analysts in Chief



- 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 H.R. 486 Ukraine Religious Freedom Support Act
 - Build Back Better Scoring.
 - Projections of Debt and Deficits The Budget and Economic Outlook: 2021 to 2031



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Pederal Debt Held by the Public Percentage of Gross Domestic Product 1946-1974

- 1. Relative debt peaked during WWII (106%) followed by a steady decline until the 1980s.
- 2. Prior to 1983, relative debt rose purposefully (wars, recessions, public investment) and then fell.
- 3. What can we learn from the 46-74 period, where the relative debt fell continuously?



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Debt Dynamics



- The relative debt fell *in spite of* deficits in 21 of the 29 years, with the debt increasing by 42%. How?
- 1946-1974, deficits caused the debt to grow, but not as fast as the economy was growing.
- While the debt grew by 42%, GDP (nominal) grew by 550%

You don't need a surplus to reduce the *relative* debt: You just need GDP to grow faster than the debt



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Relative Debt Dynamics



- Two Parts to the growth in the debt:
 - 1. The interest rate on the debt.
 - 2. A portion that reflects a primary deficit (+) or primary surplus (-)



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Traditional Views of the Cost of the Debt



- First a non-issue: There is no analogy between household and government debt.
 - The government does not have to pay back the debt.
 - Maturing government bonds are paid by issuing new bonds.
- Economist View of the Debt circa 1980, very little cost because relative debt was falling. That changes in 1983.



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Traditional View: Debt and Deficits Raise Interest Rates

- Crowding Out: Higher interest rates lead to less investment and over time to a smaller capital stock and reduced future output.
- 2. Foreign Borrowing: Higher interest rates lead to foreign capital inflows or foreign borrowing. With foreign borrowing, some of our GDP is paid to foreigners as interest.



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If the statement is true, raise the hand icon on your computer:

- 1. The largest source of Federal revenues are taxes on labor income.
- 2. If the overall budget is in surplus, there must be no primary deficit (programmatic outlays are less than revenues.)

Between 2020Q2 and 2021Q3, the relative debt went from 105% of GDP to 96%.

3. The primary reason for the fall in the relative debt was the decrease in the deficit.



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Answer to #3 in More Detail



• Facts:

- 2020Q2: GDP, 19.5 trillion; Debt, 20.5 trillion2021Q3: GDP, 23.2 trillion; Debt, 22.3 trillion
- Analysis:
 - Growth in GDP = (23.2-19.5)/19.5 = 3.7/19.5=0.19, or 19 percent
 - Growth in Debt = (22.3-20.5)/20.5 = 1.8/20.5 = 0.09, or 9 percent

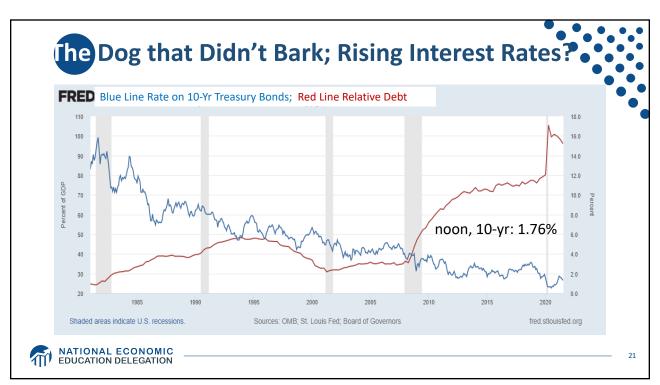
Growth in GDP exceeded the Growth in the Debt.

Lesson: You don't need a Budget Surplus to Lower the Relative Debt.



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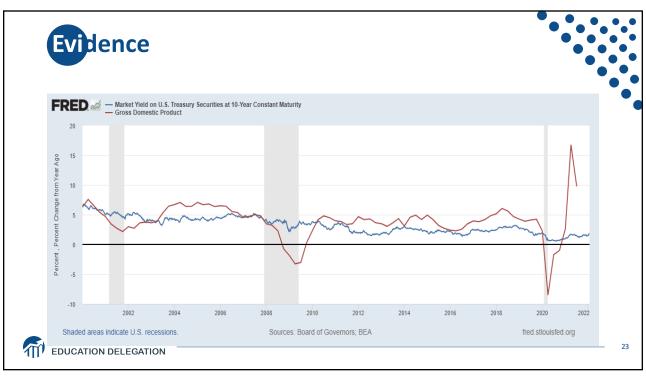




- Assumed that the interest rate was greater than the growth in GDP
 - In order to stabilize the debt, government must run a primary surplus.
 - The bigger the debt, the larger the required primary surplus.



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- If the interest rate is *less* than the growth rate of GDP, then Debt to GDP can be stabilized with a (small) primary deficit: programmatic outlays can be less than revenues!
- This point made in the Presidential address by Olivier Blanchard at the AEA conference in 2020.
- Blanchard does believe that the relative debt must be stabilized
 - 1. At some point deficits must be reduced.
 - 2. But it may not be crucial at what level of debt we stabilize.



But Why Must the Relative Debt Be Stabilized?

- Stephanie Kelton provided a prominent and recent exposition of Modern Monetary Theory in her June 6th 2020, 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







- 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.
- We rely on foreigners to hold a substantial portion of our debt and they can loose if the exchange value of the dollar falls



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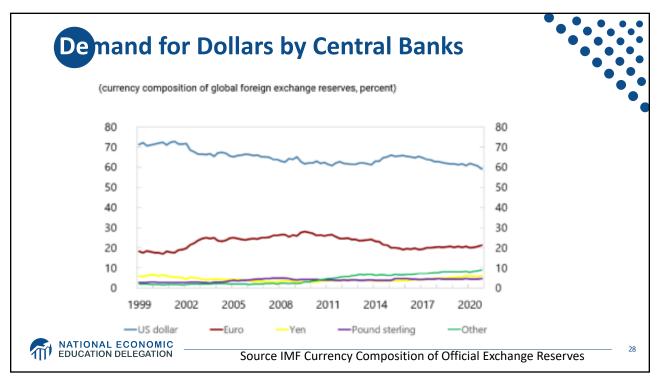


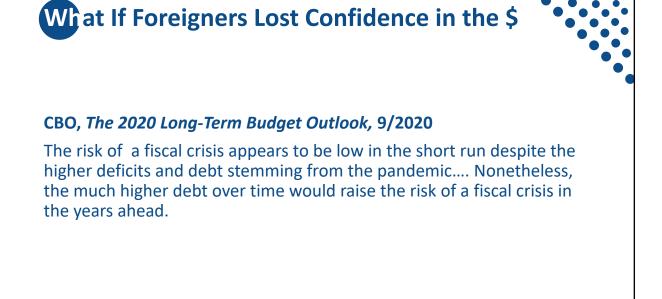


- Market for Treasuries is the deepest, most liquid and safest capital market in the world.
- US economy has a history of political and economic stability.
- We enjoy "An exorbitant privilege" (Valery Giscard d'Estaing): The dollar is the largest international reserve currency.
 - Most trade transactions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



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What would a Fiscal Crisis Look Like?



Foreigners lose confidence in the dollar and sell Treasuries in exchange for assets denominated in their own currency,

- 1. Sale of Treasuries raises interest rates, worsening our fiscal outlook.
- 2. Trading of Foreign for US assets lowers US exchange rate.
 - Raising the price of imports thereby increasing inflation.
 - Lowering the foreign currency returns on all US assets, exacerbating 1.

Could the Fed Bail us Out?

- 1. It could buy Treasuries and prevent the rise in interest rates.
- 2. Insufficient foreign assets to prevent the fall in the exchange rate,



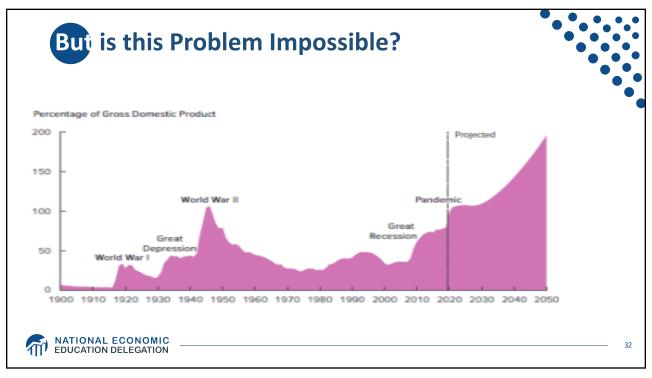
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Bottom Line: We Need to Worry about the Del



- 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 running a surplus.





CBD to the Rescue (The 2020 Long-Term Budget Outlook, 9/2020):

First a note on CBO projections:

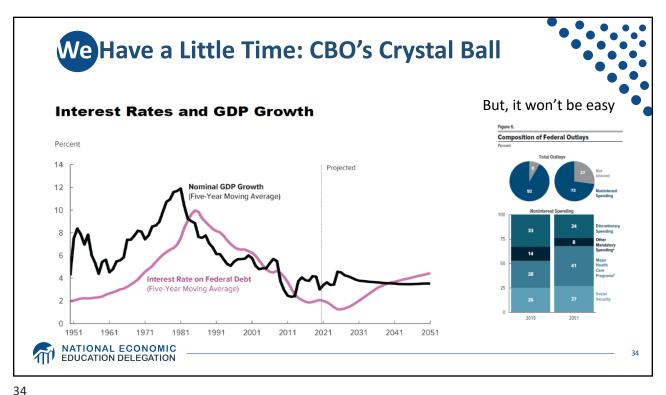
- The "baseline projections" (such as on the previous slide) are based on the law as currently written; they are *not* forecasts of what will happen.
- E.g., The 2017 tax cuts that reduced personal and estate taxes will be phased out in 2025.

But, CBO is allowed to project alternate scenarios:

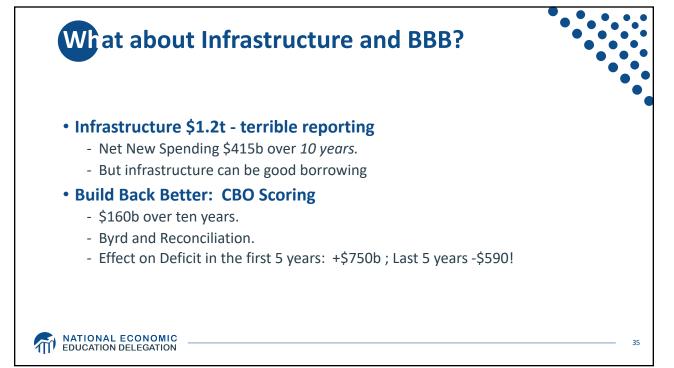
CBO (9/2020) suggests deficits in 2025 be reduced from 5 to 2.1 percent of GDP, but it won't be easy: about \$700b or 2.9% of GDP



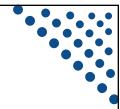
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Any Questions?

www.NEEDelegation.org <Geoffrey Woglom> <grwoglom@amherst.edu>

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