

# Osher Lifelong Learning Institute, Fall 2022 Contemporary Economic Policy Issues

Florida Atlantic University Fall, 2022

Host: Jon Haveman, Ph.D. National Economic Education Delegation



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## Available NEED Topics Include:

- US Economy
- Healthcare Economics
- Climate Change
- Economic Inequality
- Economic Mobility
- Trade and Globalization
- Minimum Wages

- Immigration Economics
- Housing Policy
- Federal Budgets
- Federal Debt
- Black-White Wealth Gap
- Autonomous Vehicles
- Healthcare Economics



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#### Contemporary Economic Policy

- Week 1 (10/6): U.S. Economic Update (Jon Haveman, NEED)
- Week 2 (10/13): Trade and Globalization (Alan Deardorff, University of Michigan)
- Week 3 (10/20): Autonomous Vehicles (Jon Haveman, NEED)
- Week 4 (10/27): Economic Inequality (Chris Herrington, VCU)
- Week 5 (11/3): The Black-White Wealth Gap (Jon Haveman, NEED)
- Week 6 (11/10): Trade Deficits and Exchange Rates (Alan Deardorff, UM) 11/17



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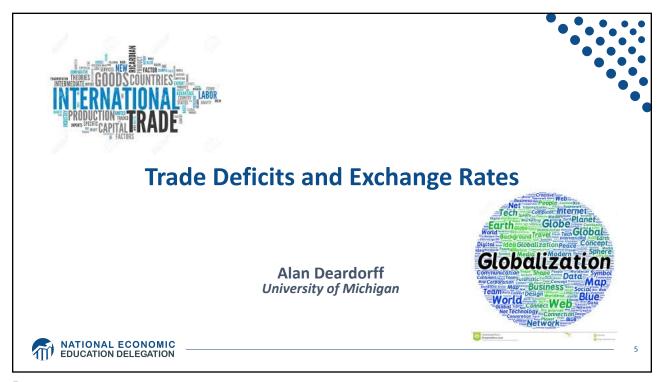
## **Submitting Questions**

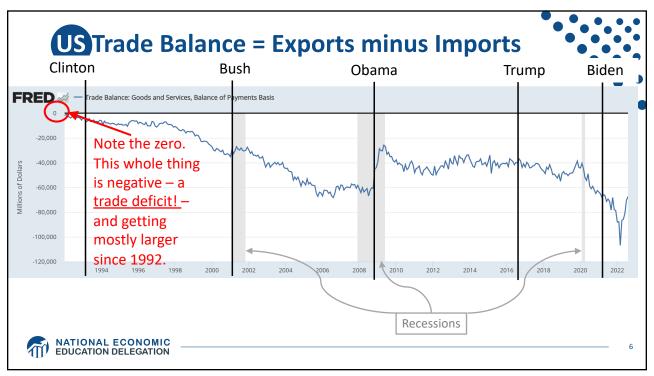


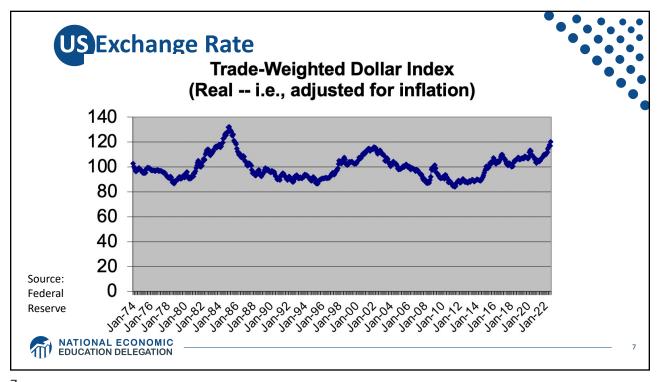
- Please submit questions of clarification in the chat.
  - I will try to handle them as they come up.
- We will do a verbal Q&A once the material has been presented.
- OLLI allowing, we can stay beyond the end of class to have further discussion.
- Slides will be available from the NEED website by tomorrow. (https://needelegation.org/delivered\_presentations.php)

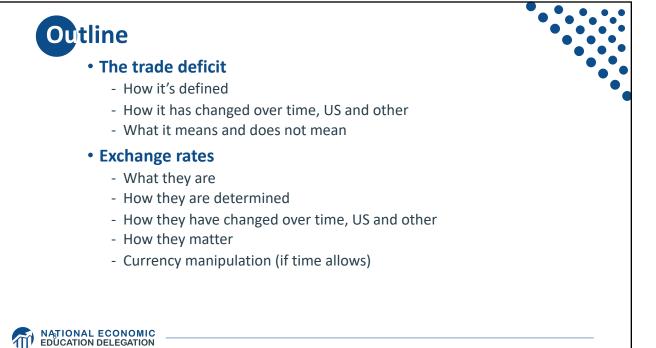


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- Defined as Exports minus Imports, X–M
- May be reported for goods only, or for goods and services

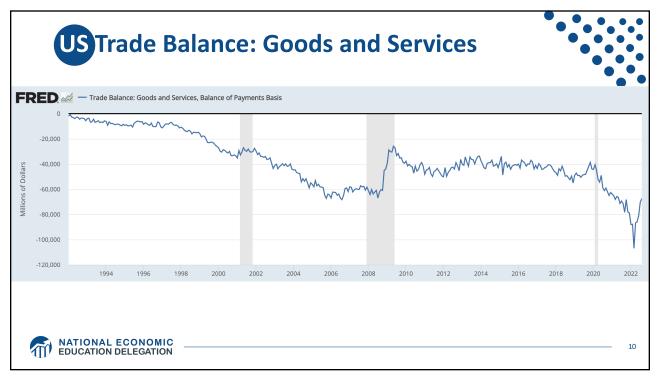
#### When trade balance is negative, that's a trade deficit

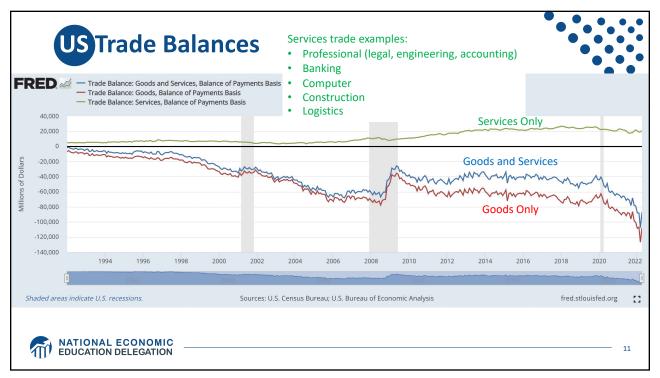
- Thus trade deficit is Imports minus Exports, M–X
- The US:
  - Has had a deficit for many decades
  - It has grown substantially in recent years
  - Has had a surplus for trade in services

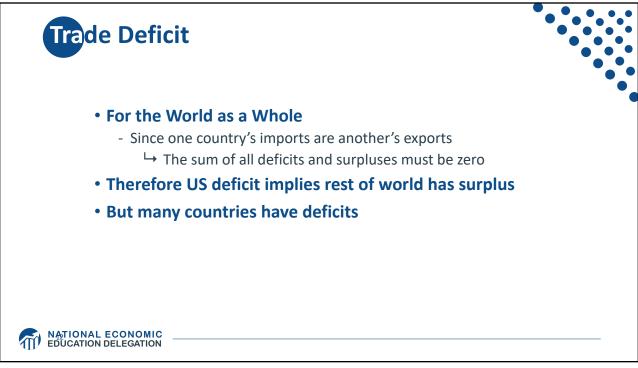
#### • Another measure: "The Current Account Balance"

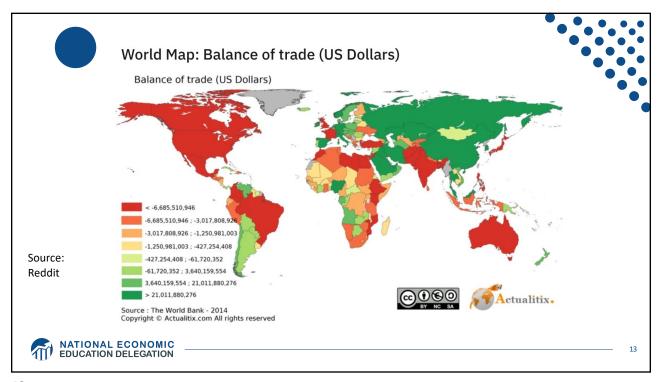
- The trade balance plus:
  - o International income flows
  - o International transfer payments (e.g., remittances, aid)
- For US, not very different from the trade balance

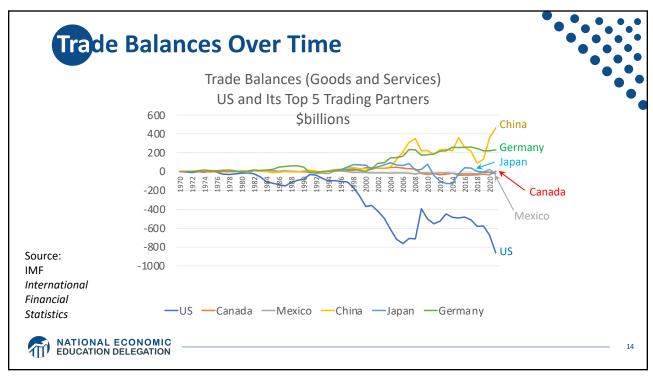


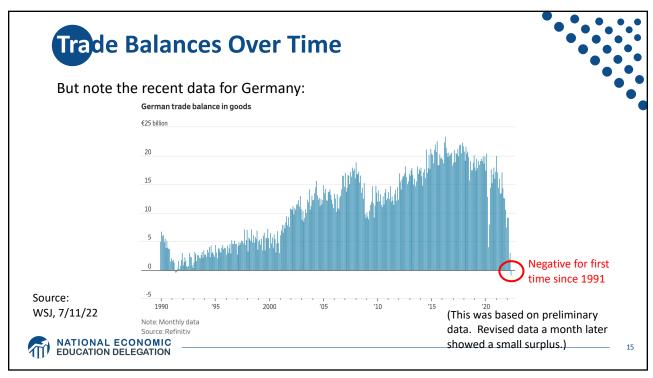












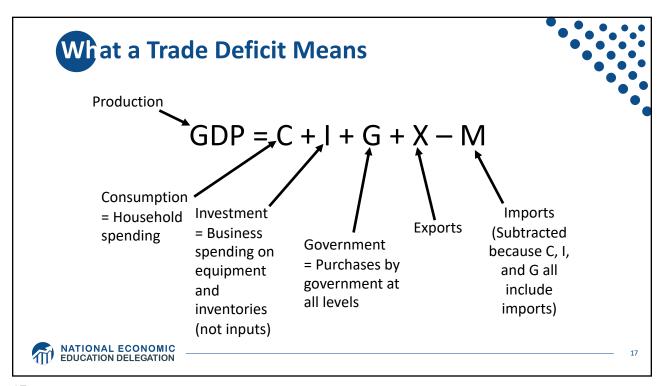
## Trade Deficit

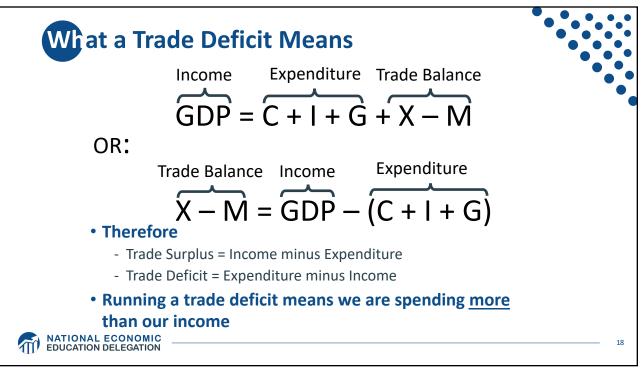
#### What a trade deficit means

- Imports > Exports
- The gap must be paid for somehow. By
  - Capital inflows (borrowing, sale of stocks & bonds)
  - Sale of property (real estate, companies)
  - o Gifts from foreigners (not relevant for US)
  - Others willing to hold more or our currency (very relevant for US)
- What explains the gap? Look at GDP (Gross Domestic Product), which measures both production and income in a country:

$$GDP = C + I + G + X - M$$









• For another interpretation, subtract net taxes from both sides

$$T = \text{Net Taxes} = \text{Taxes} - \text{Transfers}$$

$$GDP - T = C + I + G - T + X - M$$

$$(GDP - T - C) + (T - G) - I = (X - M)$$
Private
$$Gov't$$

$$Saving$$



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## What a Trade Deficit Means

• For another interpretation, subtract net taxes from both sides

$$GDP - T = C + I + G - T + X - M$$

$$(GDP - T - C) + (T - G) - I = (X - M)$$
Private Gov't Trade

Saving

Gov't Saving Trade Balance

**Total Saving** 

Trade Balance = Saving minus Investment



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## Trade Balance = Saving minus Investment

- Therefore
  - If a country is saving more than needed to finance domestic investment, it will, by definition, run a trade surplus
  - If a country is saving <u>less</u> than needed to finance domestic investment, it will, by definition, run a trade deficit
- That gap is also, as before, the difference between total income and total expenditure
- It therefore also appears as
  - Net borrowing and lending
  - Plus net acquisition or sales of assets



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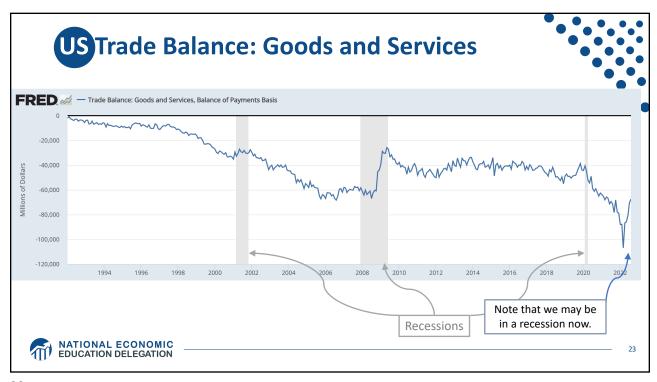
## What a Trade Deficit Does NOT Mean



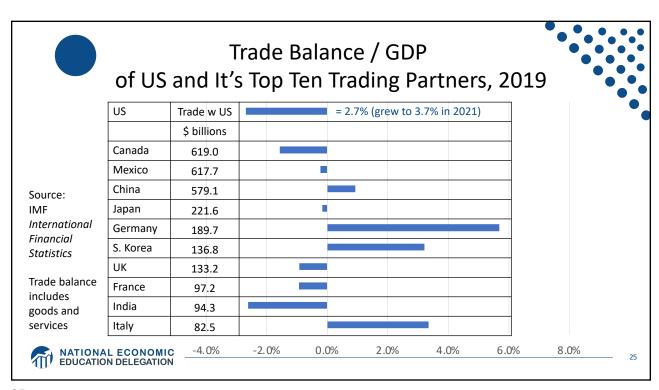
- That foreign trade barriers are hurting our exports
- That other countries are engaged in unfair trade
- That our firms are not competitive
- That we are losing jobs to other countries
- That we need to restrict trade
- To understand why these are wrong, think about whether they could change
  - Expenditure relative to income, or
  - Saving relative to investment
- Possible exception: If we are in recession and these may change income
  - But note that trade deficit typically <u>falls</u> during recession, <u>due to</u> recession reducing expenditure

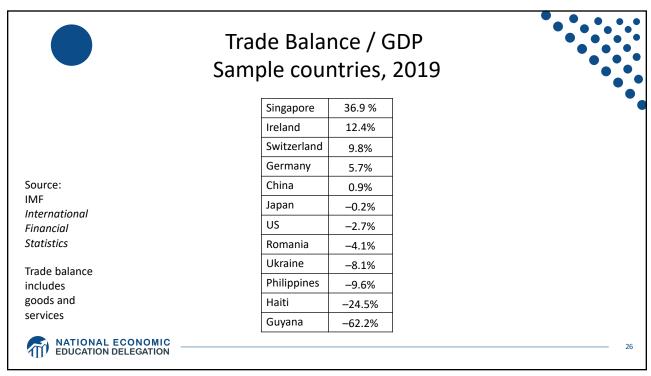


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## **US**Trade Deficit



#### • Is it a problem?

- Yes, if others are unwilling to lend to us or to hold our assets (& our money)
- But the US, at least for now, has both a strong currency and a strong economy
  - o Others trust assets in the US more than others
  - o They also rely on US dollars for transactions and reserves
  - We have an "Exorbitant Privilege" because of the US dollar's role in the world economy (said by Valery Giscard d'Estaing in the 1960s) when most currencies were pegged to dollars, but still valid today)



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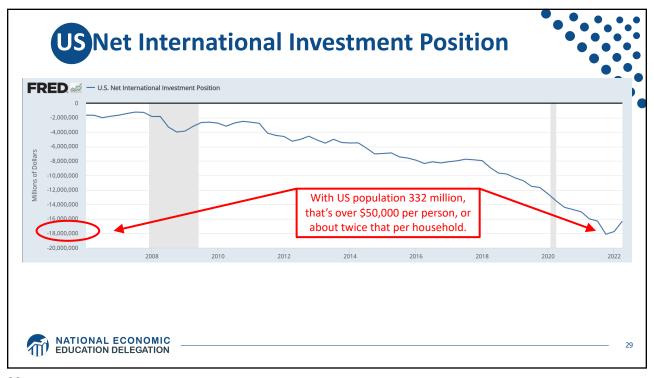


#### • Is it a problem?

- It does mean that US net debt to foreigners grows every year.
- What if other countries decide to dump their dollar assets? Their value would plumet and they would lose. (But runs on currencies, like runs on banks, do happen.)
- US net international investment position recently reached -\$18 trillion!



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# Is it a problem? Yes, in my view, but not because it might hurt us. Because it takes advantage of others. The US, one of the richest countries in the world, is Spending more than its income Being funded, in part, by much poorer countries We are enjoying More goods and services than we produce Produced by often lower-wage and poorer workers abroad Without, at least in the foreseeable future, paying for them That just feels wrong to me, Especially if others are financing us not by choice but because they have no other option.

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NATIONAL ECONOMIC EDUCATION DELEGATION





#### Could an increase in the trade deficit ever hurt us?

- Yes, if we are in a recession.
- Then by demanding foreign goods and services instead of our own, we support jobs abroad instead of at home
- That is when using trade policy and/or exchange-rate policy to promote demand and higher employment at home seems to make sense.
  - o But it helps us only at the expense of others, if they are also in recession
  - o And it is likely to cause retaliation, cancelling all or more than any benefit



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## Trade Deficits and Exchange Rates



#### Do exchange rates matter for trade deficits?

- Yes.
- If your currency falls in value, it makes
  - Exports cheaper
  - o Imports more expensive
  - o Lowers real income and therefore expenditure
  - o Result: Trade balance "improves"
    - · Deficit shrinks, or
    - · Surplus grows
- Example: Volker policy in 1980-81
  - Raised US interest rates
    - → Attracted capital from abroad
      - → Caused the US dollar to rise in value by about 50%
        - → Hurt US exports, helped imports, and increased the US trade deficit



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- -Questions
- -5-Minute Break
- Next: Exchange Rates



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## **Exc**hange Rates



#### What they are

- The price of one currency in terms of another
- Thus, for example
  - o The number of dollars you pay for one euro: \$/€
  - o Or, the number or euros you'll get for one dollar: €/\$
- Rates reported in data are those between major banks
- Rates you see in banks, stores, and currency exchanges will be worse for you
  - o To cover cost and make profit for them



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## **Exchange Rates**

# •

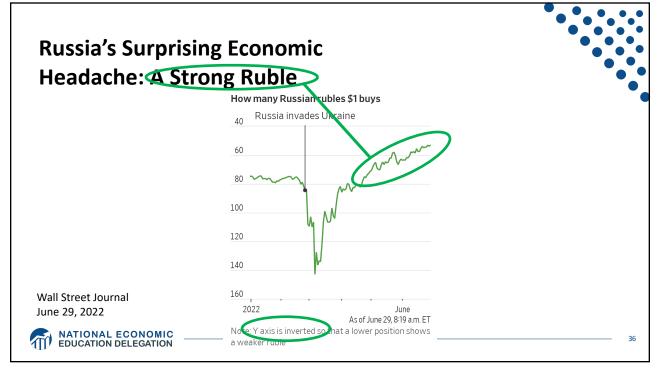
#### What they are

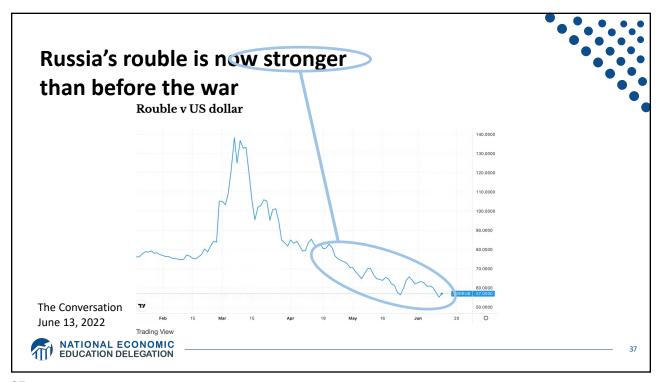
- Confusing! Hard to know what is up and what is down
  - o i.e., "The Japanese yen rose today from 95 to 90"
  - $\circ$  Makes sense because the numbers are understood to be  $\frac{1}{4}$ , not  $\frac{1}{4}$ , so the change from 95 to 90 is in fact a rise in the value of the yen
- Yen is reported that way because alternative would be
  - "The Japanese yen rose today from \$0.0105 to \$0.0111"
- For currencies worth much less than \$1, scales often show currency/\$
  - o Graphs of rates over time may be drawn on an "inverted scale"
  - o Or "strength" may appear as drop on the graph



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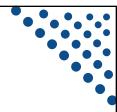








## What Determines Exchange Rates



#### • Main sources of <u>demand</u> for our country's currency

Increases that cause our currency to rise (or "appreciate"):

- Exports, i.e., foreign purchases of our
  - o Goods
  - Services
- "Capital inflows," i.e., foreign purchases of our
  - Stocks
  - o Bonds
  - Currency



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## What Determines Exchange Rates



#### Main sources of supply of our country's currency

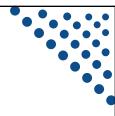
Increases that cause our currency to fall (or "depreciate"):

- Imports, i.e., our purchases of foreign
  - o Goods
  - Services
- "Capital outflows," i.e., our purchases of foreign
  - Stocks
  - o Bonds
  - o Currencies





## What Determines Exchange Rates



- Changes that cause our currency, the \$, to rise in value
  - More US exports and/or less US imports
  - Rise in US interest rates and or fall in foreign interest rates
  - New expectation that dollar will rise
    - Causes wealth holders to buy more of \$ assets
  - Central banks choose to hold more \$ in reserves
- Opposites of above cause the \$ to fall



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## What Determines Exchange Rates



- Historic Roles of Governments and Central Banks
  - Define the value of currency in terms of gold or silver
    - o The Gold Standard of the 19<sup>th</sup> and early 20<sup>th</sup> century
  - Intervene in markets to "peg" their currency to another
    - The Dollar Standard of 1945-1973
      - Most currencies were pegged to the US \$
      - Other central Banks bought and sold dollars to achieve this.
  - Let major currencies "float" since 1973
    - o Many weaker countries still intervene in markets, buying or selling to
      - · Peg to another currency
      - Reduce currency fluctuations
    - A few intervene in markets to "manipulate" their currencies
      - · Reduce their value to encourage exports







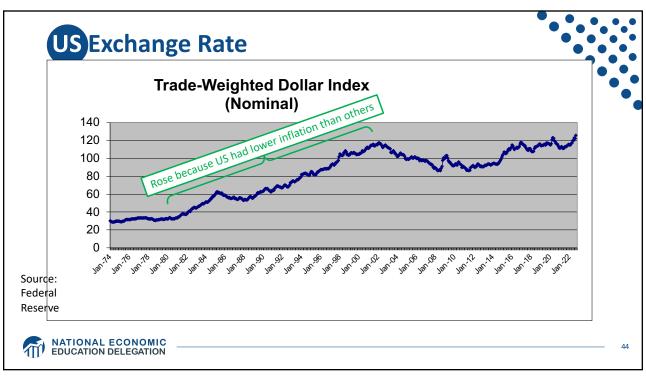
#### · We'll look at

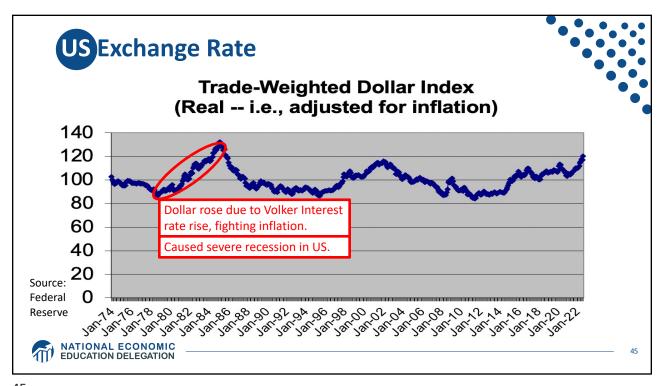
- US dollar
- France, Germany, Italy, and Euro Area's euro
- Canadian dollar
- Mexican peso
- British pound
- Japanese yen
- Chinese renminbi

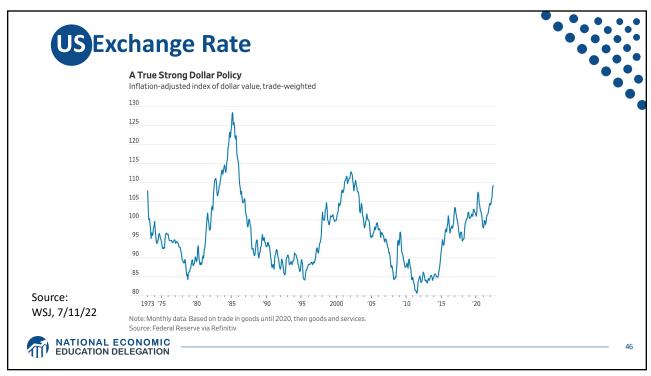


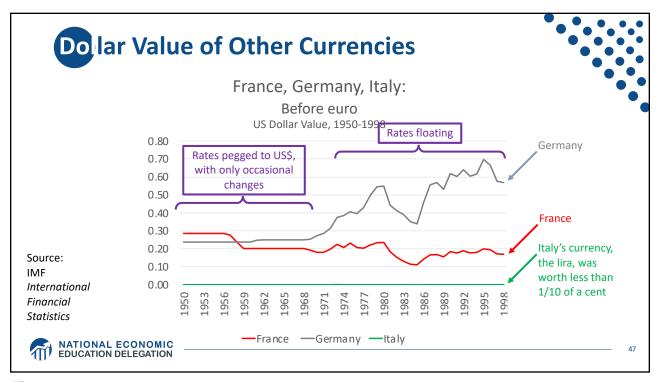
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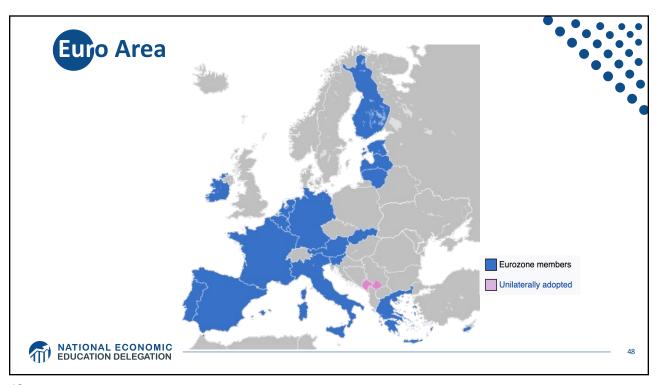
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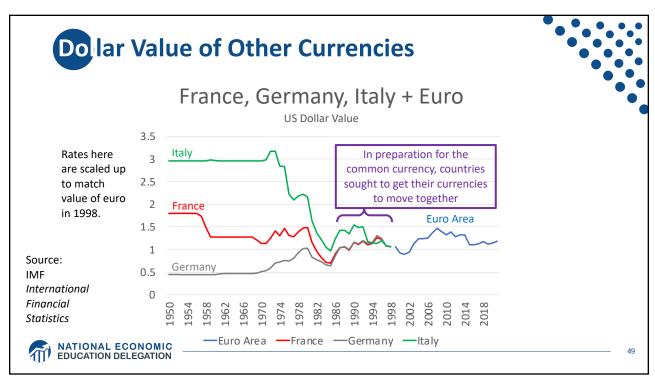


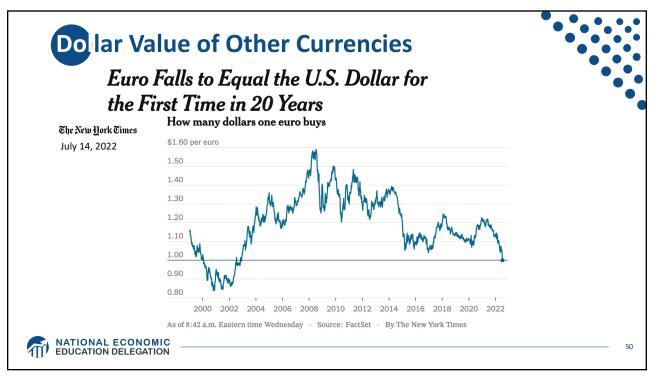


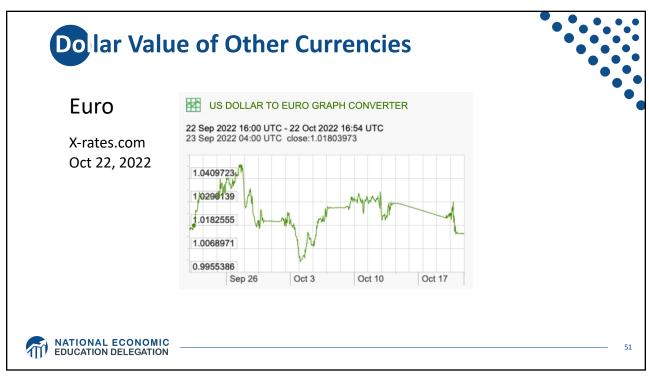


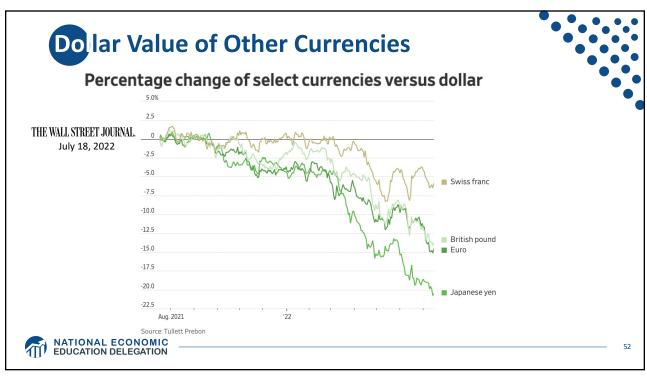


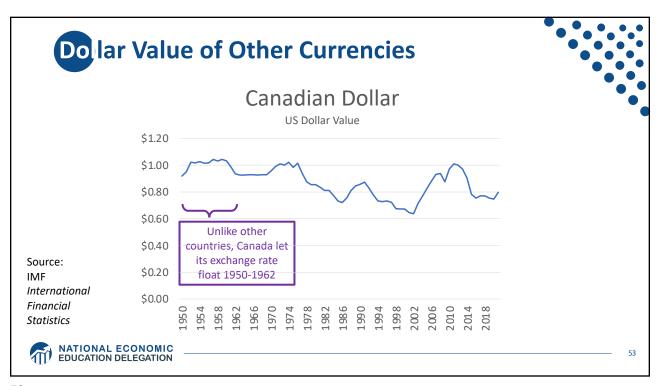


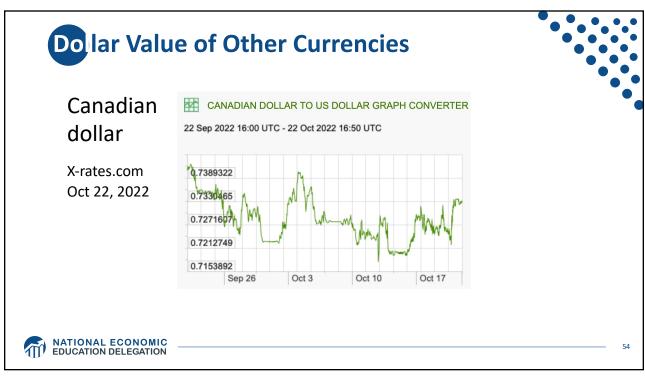


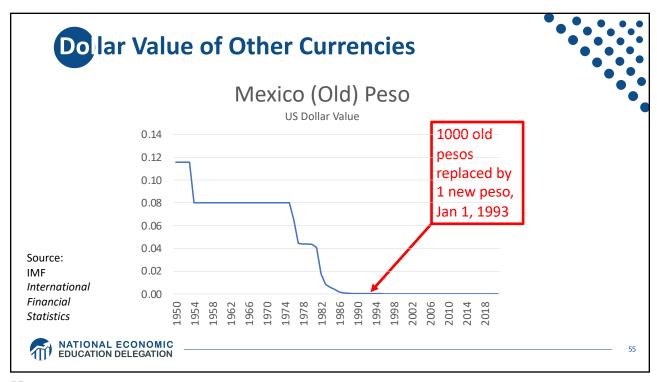


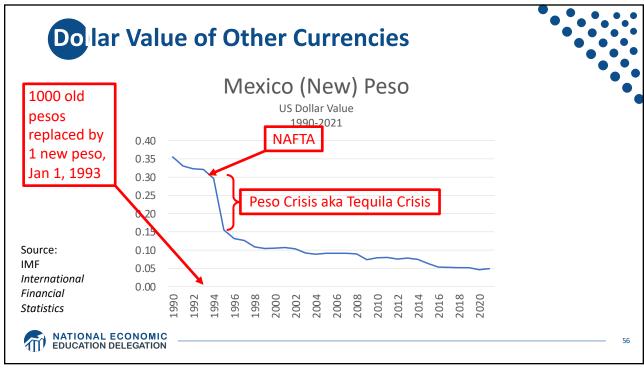


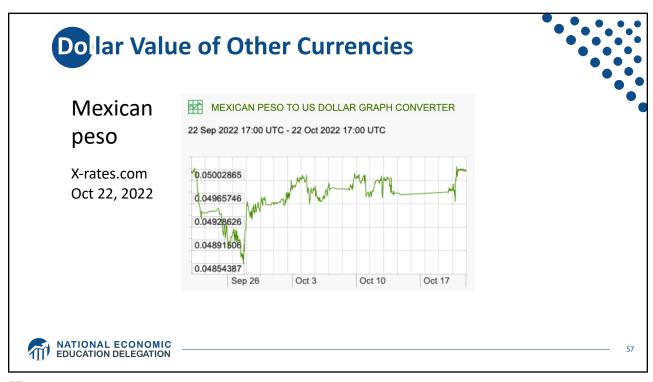


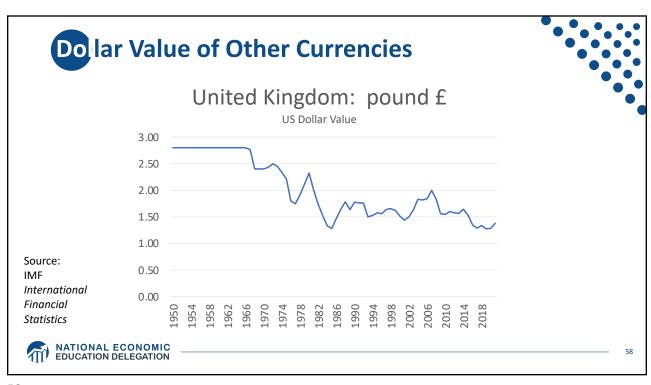


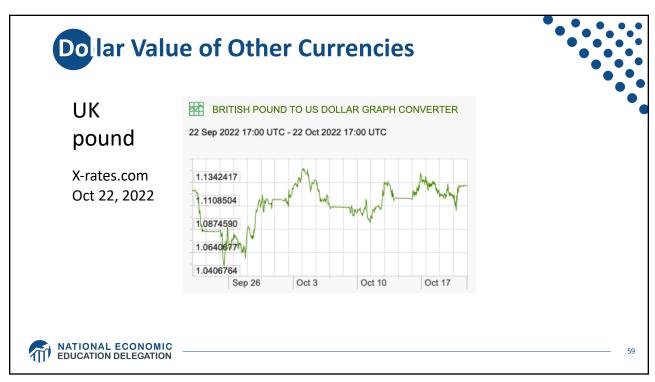


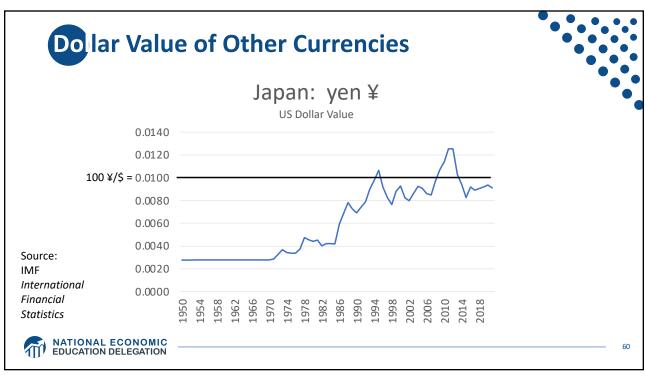


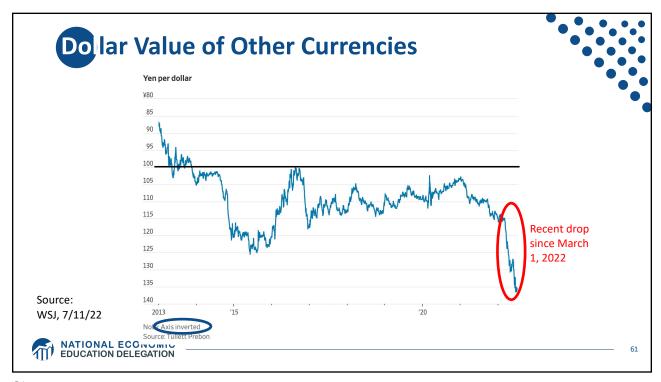


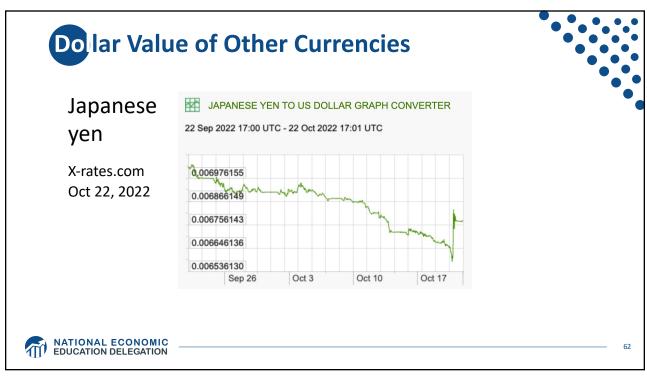


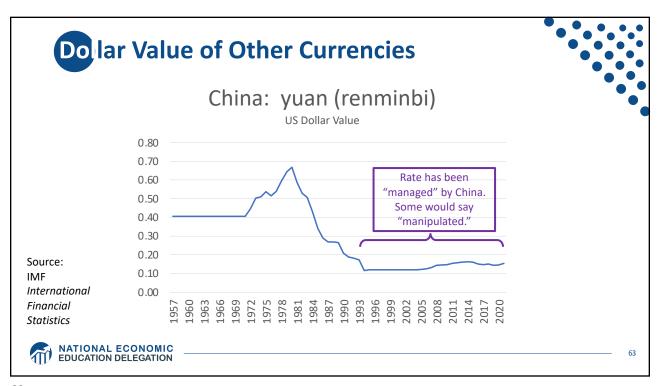


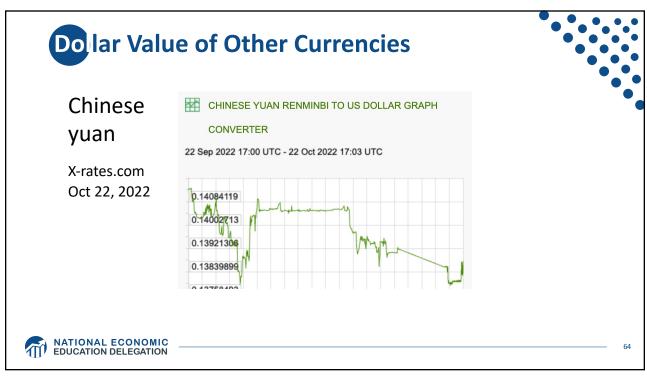
















#### Effects of an exchange rate depreciation

- o (<u>fall</u> in value of the country's currency)
- Trade
  - Exports become less expensive and quantity likely rises
  - o Imports become more expensive and quantity likely falls
  - o Trade balance likely improves (surplus ↗ or deficit ↘)
- Macroeconomic
  - o Raises domestic prices of imports and thus inflation
  - o If at full employment, real income falls, causing less spending
  - o If in recession, increased demand for products increases employment



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## **How Exchange Rates Matter**



#### • More effects of an exchange rate depreciation

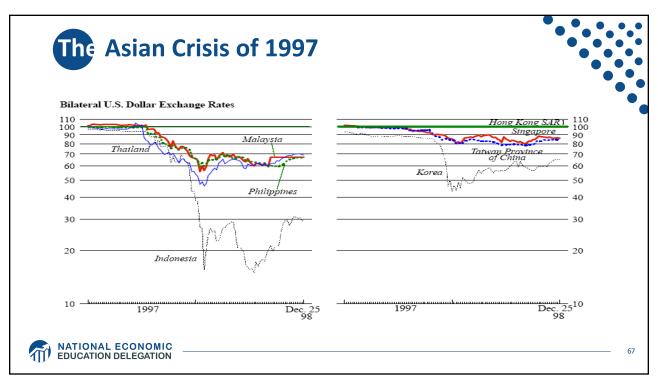
- (<u>fall</u> in value of the country's currency)
- Domestic value of foreign assets and debts rises
  - o Net creditors gain, net debtors lose
    - Effect on interest/dividend payments is opposite
  - o Those who have borrowed abroad to finance investment at home lose
    - May go bankrupt

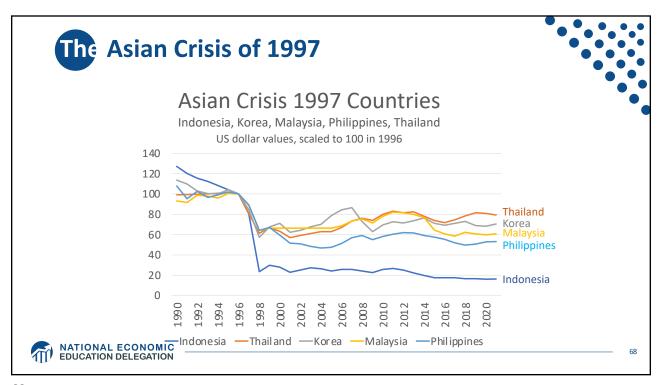
#### • Effects of <u>expectation</u> of exchange rate <u>depreciation</u>

- Holders of assets in domestic currency try to sell and move abroad
  - → This speculative attack causes greater depreciation
- Example from 1997 Asian Crisis

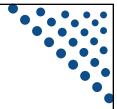


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## **Currency Manipulation**



#### Currency Manipulation

- Defined as
  - o Intervention in the exchange market by Central Bank or Government
  - o In order to push down, or keep down, the value of the currency
- Presumed purposes: To...
  - o Increase exports
  - o "Gain unfair advantage" in international trade and competitiveness
  - o Stimulate the domestic economy
  - o Accumulate foreign assets



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## **Currency Manipulation**



### US Definition of Currency Manipulation

- US Treasury issues report on currency manipulation twice each year
- Criteria for manipulation
  - 1. Persistent net official purchases of foreign currency (more than 2 percent of GDP)
  - 2. A material trade (current account) surplus (more than 2 percent of GDP)
  - 3. A significant bilateral trade surplus with the United States (more than \$20 billion per year)



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## **Currency Manipulation**



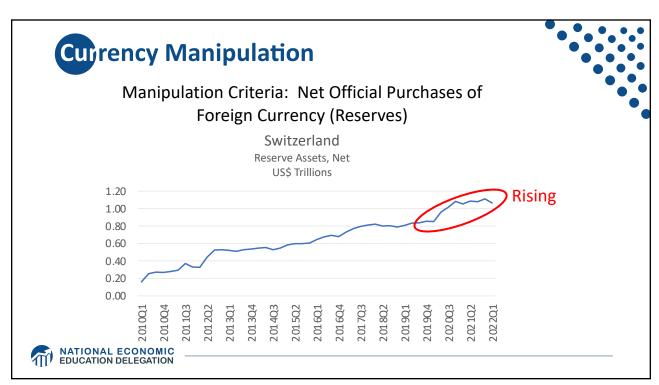
#### US Treasury Report June 10, 2022

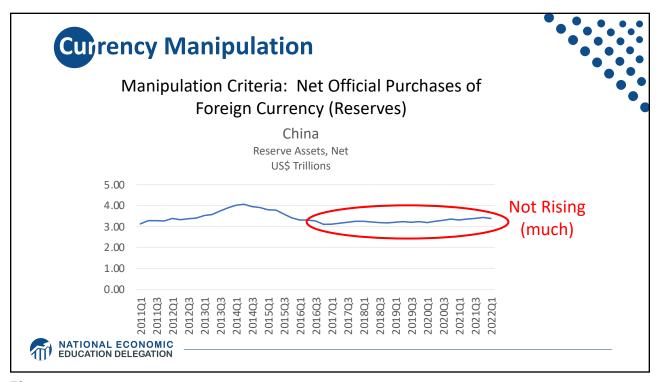
- "No major U.S. trading partner during 2021 manipulated the rate of exchange between its currency and the U.S. dollar for purposes of preventing effective balance of payments adjustments or gaining unfair competitive advantage in international trade."
- "Switzerland neets all three criteria ... over the four quarters through December 2021, and therefore Treasury is conducting enhanced analysis of Switzerland's macroeconomic and exchange rate policies in this Report.
- 12 economies are on "Monitoring List" China, apan, Korea, Germany, Italy, India, Malaysia, Singapore, Thailand, Taiwan, Vietnam, and Mexico
- Look at data for two: Switzerland and China

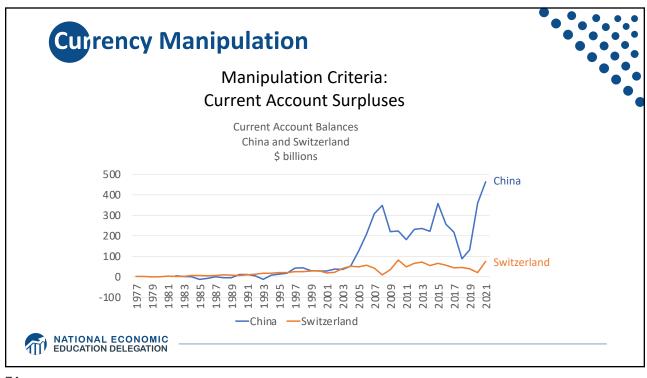


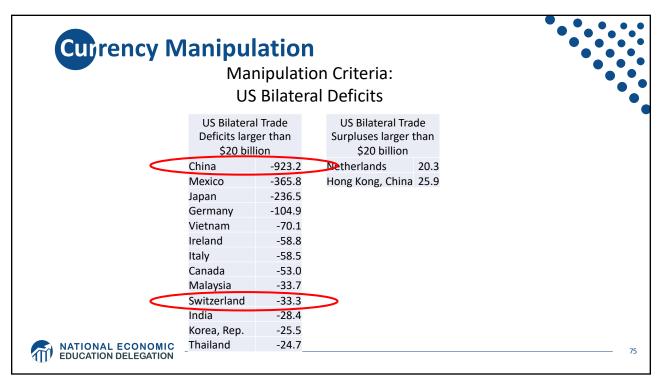
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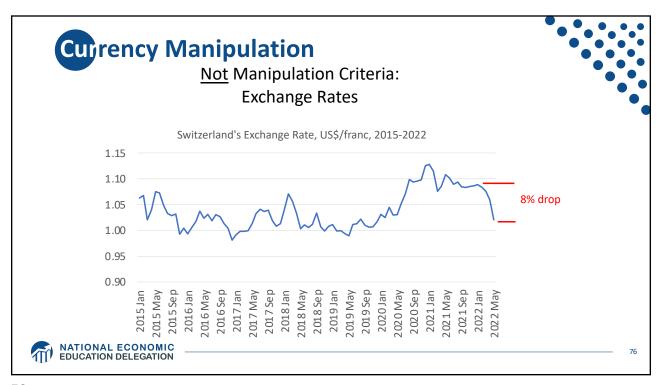
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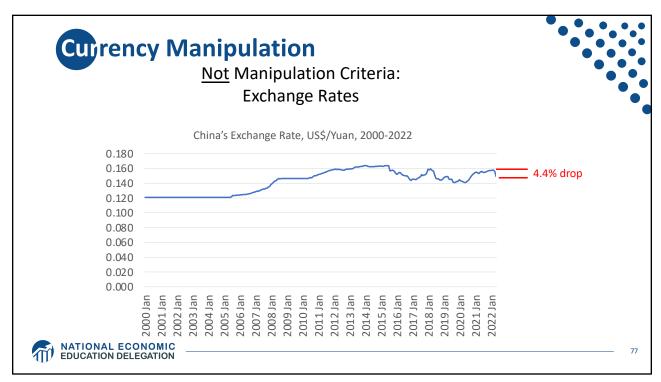




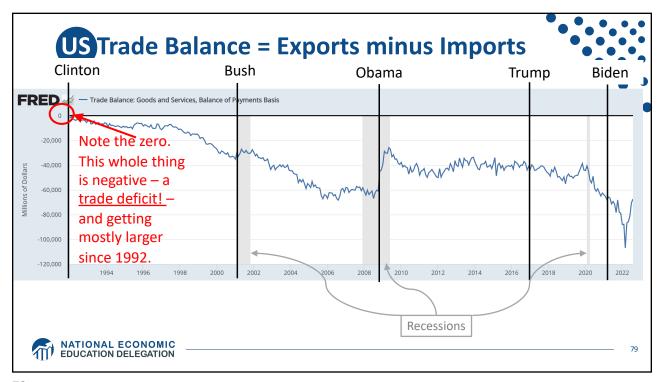


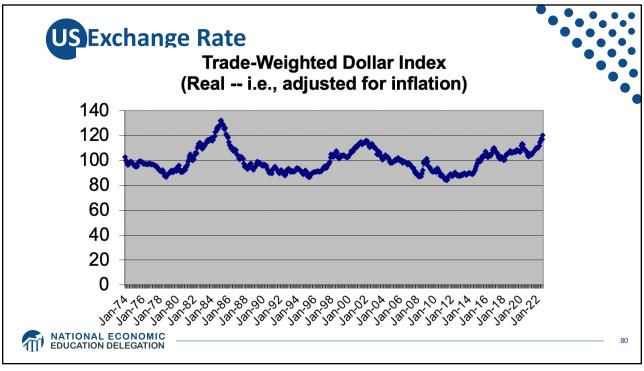














### The trade deficit

- How it's defined
- How it has changed over time, US and other
- What it means and does not mean

### Exchange rates

- What they are
- How they are determined
- How they have changed over time, US and other
- How they matter
- Currency manipulation (if time allows)



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# Trade Deficit

### The trade <u>balance</u>

- Defined as Exports minus Imports, X-M
- May be reported for goods only, or for goods and services

### • When trade balance is negative, that's a trade deficit

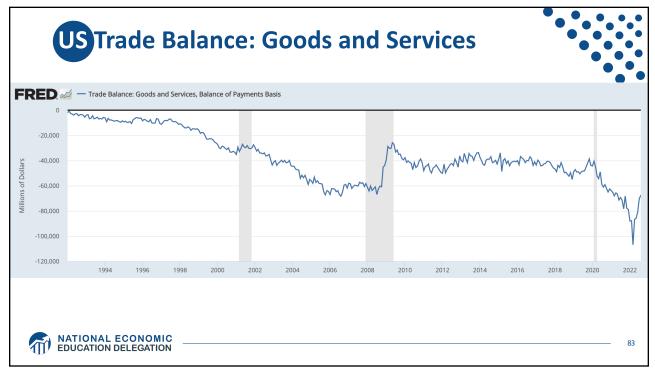
- Thus trade deficit is Imports minus Exports, M-X

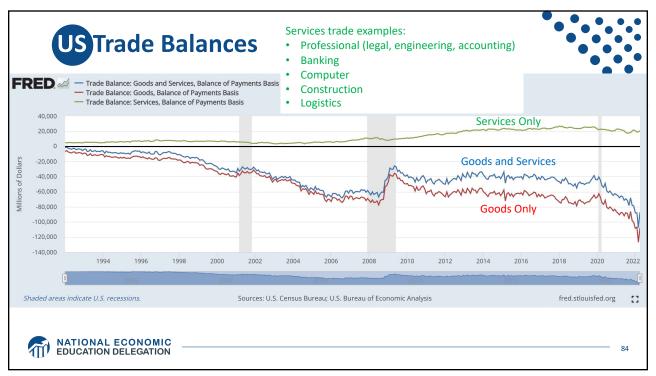
### • The US:

- Has had a deficit for many decades
- It has grown substantially in recent years
- Has had a surplus for trade in services









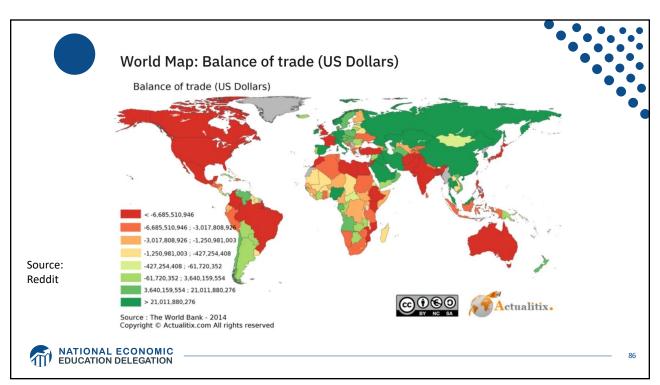


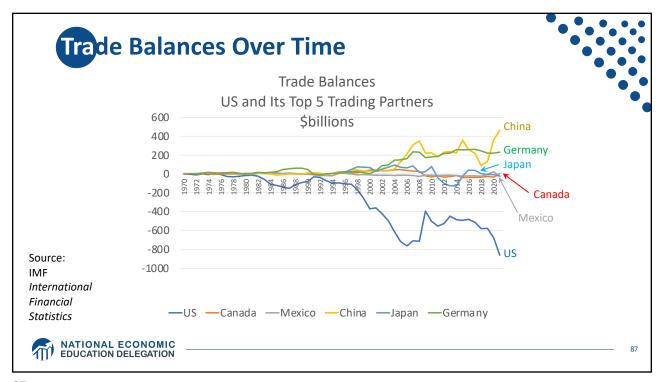


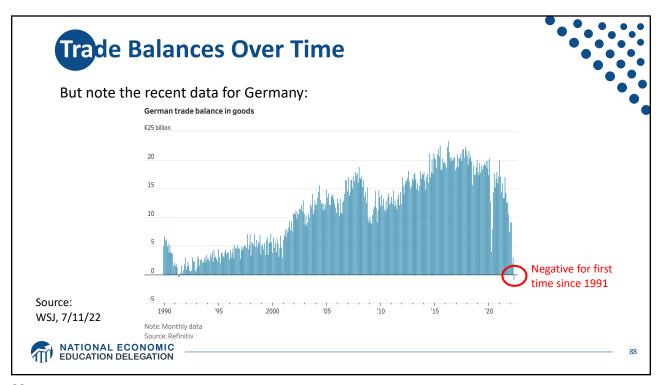
- For the World as a Whole
  - Since one country's imports are another's exports

    → The sum of all deficits and surpluses must be zero
- Therefore US deficit implies rest of world has surplus
- But many countries have deficits











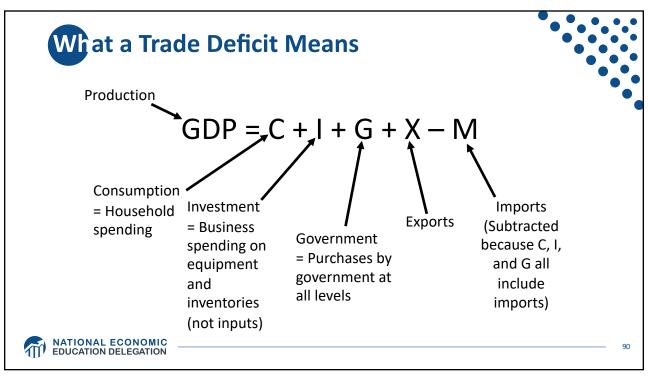
### What a trade deficit means

- Imports > Exports
- The gap must be paid for somehow. By
  - o Capital inflows (borrowing, sale of stocks & bonds)
  - Sale of property (real estate, companies)
  - Gifts from foreigners (not relevant for US)
  - Others willing to hold more or our currency (very relevant for US)
- What explains the gap? Look at GDP (Gross Domestic Product), which measures both production and income in a country:

$$GDP = C + I + G + X - M$$



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Income Expenditure Trade Balance 
$$\overline{GDP} = \overline{C + I + G} + \overline{X - M}$$

OR:

Trade Balance Income Expenditure  $X - M = \overline{GDP} - \overline{(C + I + G)}$ 

- Therefore
  - Trade Surplus = Income minus Expenditure
  - Trade Deficit = Expenditure minus Income
- Running a trade deficit means we are spending <u>more</u> than our income



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What a Trade Deficit Means

• For another interpretation, subtract net taxes from both sides

$$GDP - T = C + I + G - T + X - M$$

$$(GDP - T - C) + (T - G) - I = (X - M)$$

Private Saving

Gov't Saving Trade Balance

**Total Saving** 



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• For another interpretation, subtract net taxes from both sides

$$T = Net Taxes = Taxes - Transfers$$

$$GDP - T = C + I + G - T + X - M$$

$$(GDP - T - C) + (T - G) - I = (X - M)$$
Private
$$Gov't$$
Trade
$$Saving$$
Saving
$$Saving$$
Total Saving

Trade Balance = Saving minus Investment



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## Trade Balance = Saving minus Investment

- Therefore
  - If a country is saving more than needed to finance domestic investment, it will, by definition, run a trade surplus
  - If a country is saving <u>less</u> than needed to finance domestic investment, it will, by definition, run a trade deficit
- That gap is also, as before, the difference between total income and total expenditure
- It therefore also appears as
  - Net borrowing and lending
  - Plus net acquisition or sales of assets



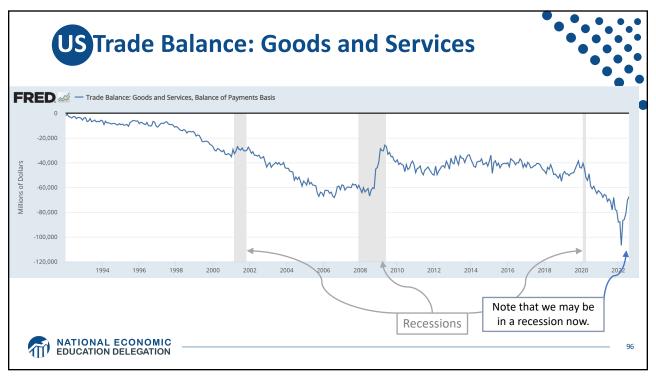
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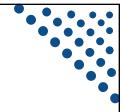
- There are several very popular interpretations of trade deficits that are not valid, even though many politicians believe them:
  - That foreign trade barriers are hurting our exports
  - That other countries are engaged in unfair trade
  - That our firms are not competitive
  - That we are losing jobs to other countries
  - That we need to restrict trade
- To understand why these are wrong, think about whether they could change
  - Expenditure relative to income, or
  - Saving relative to investment
- Possible exception: If we are in recession and these may change income
  - But note that trade deficit typically <u>falls</u> during recession, <u>due to</u> recession reducing expenditure



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- The US trade deficit means that the US is spending more than its income. How much?
  - \$861 billion in 2021, according to the IMF
  - How does that compare to US GDP? GDP was \$23 trillion.
  - So US trade deficit was about 3.7% of US GDP
  - Collectively, we and our government are spending almost 4% above our income.
  - How does that compare to other countries?



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### Trade Balance / GDP of US and It's Top Ten Trading Partners, 2019 US = 2.7% (grew to 3.7% in 2021) Trade w US \$ billions Canada 619.0 Mexico 617.7 China 579.1 Japan 221.6 Germany 189.7 S. Korea 136.8 Source: UK 133.2 **IMF** France 97.2 International India 94.3 **Financial Statistics** Italy 82.5 NATIONAL ECONOMIC EDUCATION DELEGATION -4.0% -2.0% 2.0% 4.0% 6.0% 8.0% 0.0%



# Trade Balance / GDP Sample countries, 2019

Singapore	36.9 %
Ireland	12.4%
Switzerland	9.8%
Germany	5.7%
China	0.9%
Japan	-0.2%
US	-2.7%
Romania	-4.1%
Ukraine	-8.1%
Philippines	-9.6%
Haiti	-24.5%
Guyana	-62.2%

Source: IMF International Financial Statistics



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### • Is it a problem?

- Yes, if others are unwilling to lend to us or to hold our assets (& our money)
- But US, at least for now, has both a strong currency and a strong economy
  - o Others trust assets in the US more than others
  - o They also rely on US dollars for transactions and reserves
  - We have an "Exorbitant Privilege" because of the US dollar's role in the world economy (said by Valery Giscard d'Estaing in the 1960s) when most currencies were pegged to dollars, but still valid today)



10





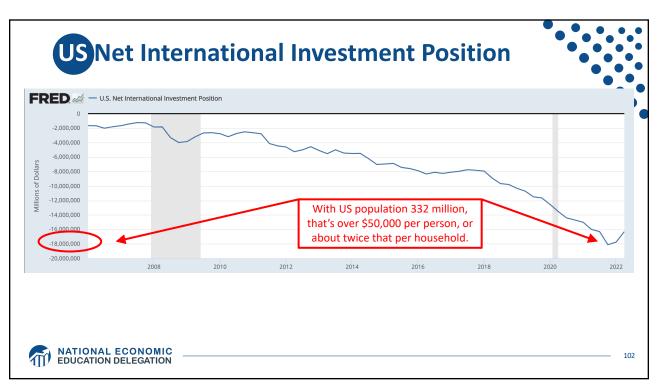
### • Is it a problem?

- It does mean that US net debt to foreigners grows every year.
- What if other countries decide to dump their dollar assets? Their value would plumet and they would lose. (But runs on currencies, like runs on banks, do happen.)
- US net international investment position recently reached –\$18 trillion!



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# **US**Trade Deficit

### • Is it a problem?

- Yes, in my view, but <u>not</u> because it might hurt us. Because it takes advantage of others.
- The US, one of the richest countries in the world, is
  - Spending more than its income
  - o Being funded, in part, by much poorer countries
- We are enjoying
  - o More goods and services than we produce
  - o Produced by often lower-wage and poorer workers abroad
  - o Without, at least in the foreseeable future, paying for them
- That just feels wrong to me,
  - Especially if others are financing us not by choice but because they have no other option.



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# **US**Trade Deficit



### Could a trade deficit ever hurt us?

- Yes, if we are in a recession.
- Then by demanding foreign goods and services instead of our own, we support jobs abroad instead of at home
- That is when using trade policy and/or exchange-rate policy to promote demand and higher employment at home seems to make sense.
  - o But it helps us only at the expense of others, if they are also in recession
  - o And it is likely to cause retaliation, cancelling all or more than any benefit



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# Trade Deficits and Exchange Rates

- Do exchange rates matter for trade deficits?
  - Yes
  - If your currency falls in value, it makes
    - o Exports cheaper
    - o Imports more expensive
    - o Lowers real income and therefore expenditure
    - Result: Trade balance "improves"
      - · Deficit shrinks, or
      - Surplus grows
  - Example: Volker policy in 1980-81
    - Raised US interest rates
      - → Attracted capital from abroad
        - → Caused the US dollar to rise in value by about 50%
          - →Hurt US exports, helped imports, and increased the US trade deficit



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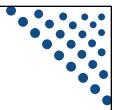


- Pause for
  - -Questions
  - -5-Minute Break
- Next: Exchange Rates



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# **Exc**hange Rates



### What they are

- The price of one currency in terms of another
- Thus, for example
  - The number of dollars you pay for one euro: \$/€
  - o Or, the number or euros you'll get for one dollar: €/\$
- Rates reported in data are those between major banks
- Rates you see in banks, stores, and currency exchanges will be worse for you
  - o To cover cost and make profit for them



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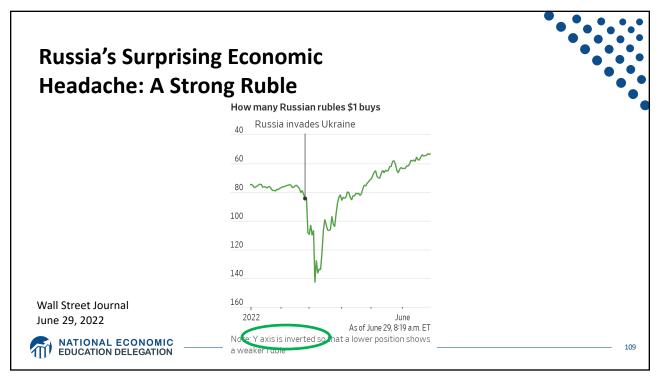
# **Exc**hange Rates

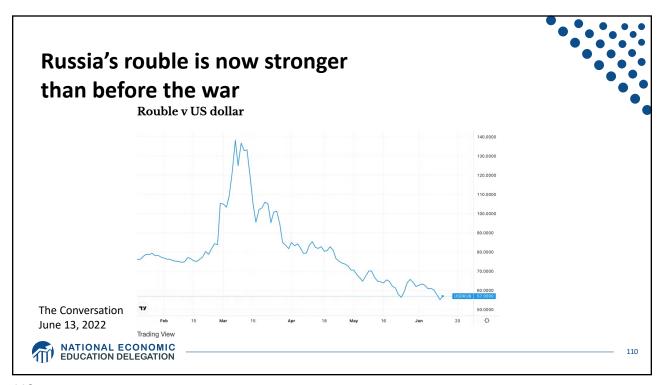
### What they are

- Confusing! Hard to know what is up and what is down
  - o i.e., "The Japanese yen rose today from 95 to 90"
  - $\circ$  Makes sense because the numbers are understood to be  $\frac{1}{4}$ , not  $\frac{1}{4}$ , so the change from 95 to 90 is in fact a rise in the value of the yen
- Yen is reported that way because alternative would be
  - o "The Japanese yen rose today from \$0.0105 to \$0.0111"
- For currencies worth much less than \$1, scales often show currency/\$
  - o Graphs of rates over time may be drawn on an "inverted scale"
  - o Or "strength" may appear as drop on the graph



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- Exchange rates are determined in markets
- Thus they respond to changes in demand and supply



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# What Determines Exchange Rates



• Main sources of demand for our country's currency

Increases that cause our currency to rise (or "appreciate"):

- Exports, i.e., foreign purchases of our
  - o Goods
  - Services
- "Capital inflows," i.e., foreign purchases of our
  - Stocks
  - o Bonds
  - Currency



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• Main sources of supply of our country's currency

Increases that cause our currency to fall (or "depreciate"):

- Imports, i.e., our purchases of foreign
  - o Goods
  - Services
- "Capital outflows," i.e., our purchases of foreign
  - Stocks
  - o Bonds



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# What Determines Exchange Rates



- Changes that cause our currency, the \$, to rise in value
  - More US exports and/or less US imports
  - Rise in US interest rates and or fall in foreign interest rates
  - New expectation that dollar will rise
    - o Causes wealth holders to buy more of \$ assets
  - Central banks choose to hold more \$ in reserves
- Opposites of above cause the \$ to fall



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### Historic Roles of Governments and Central Banks

- Define the value of currency in terms of gold or silver
  - o The Gold Standard of the 19th and early 20th century
- Intervene in markets to "peg" their currency to another
  - o The Dollar Standard of 1945-1973
    - Most currencies were pegged to the US \$
    - Other central Banks bought and sold dollars to achieve this.
- Let major currencies "float" since 1973
  - o Many weaker countries still intervene in markets, buying or selling to
    - Peg to another currency
    - Reduce currency fluctuations
  - o A few intervene in markets to "manipulate" their currencies
    - Reduce their value to encourage exports



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# **How Have Exchange Rates Changed**

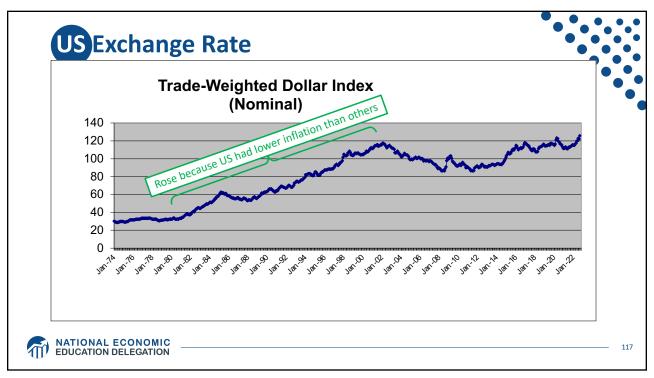


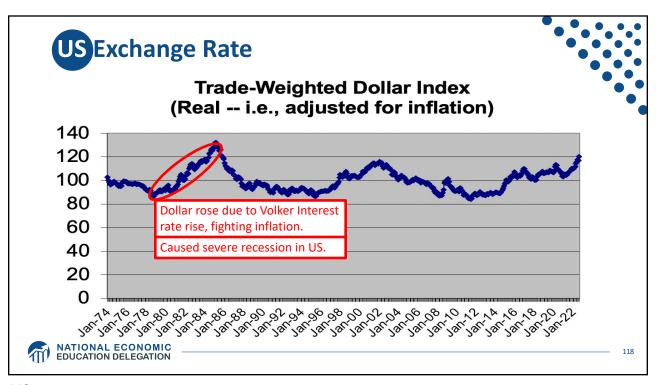
### We'll look at

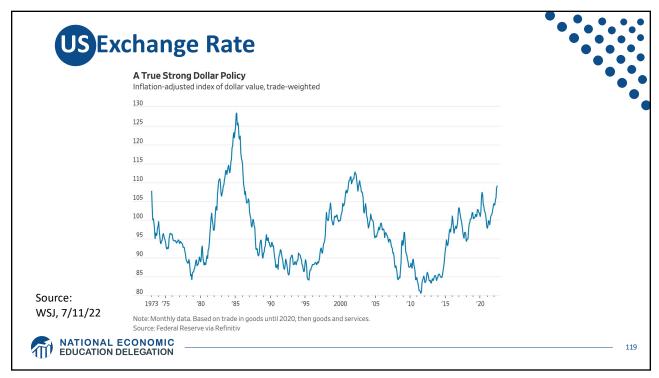
- US dollar
- France, Germany, Italy, and Euro Area's euro
- Canadian dollar
- Mexican peso
- British pound
- Japanese yen
- Chinese renminbi

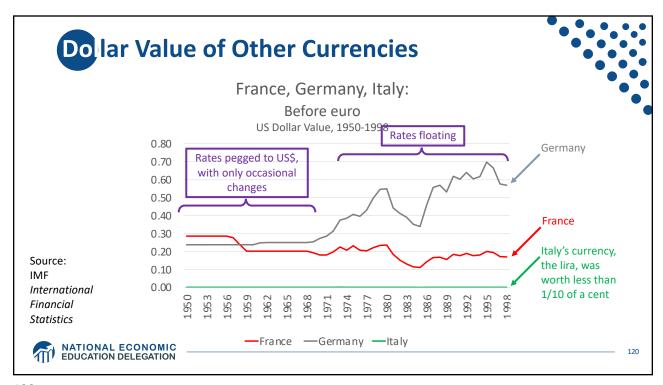


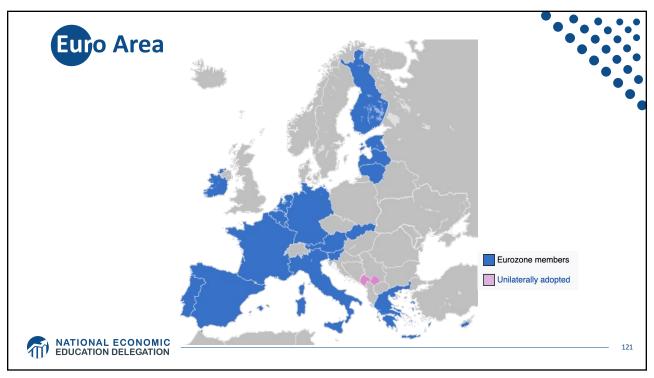
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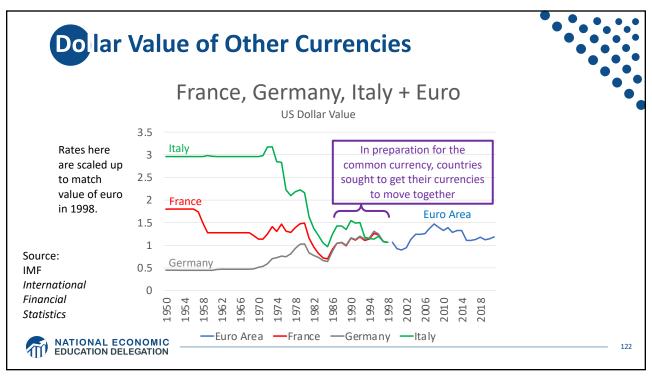


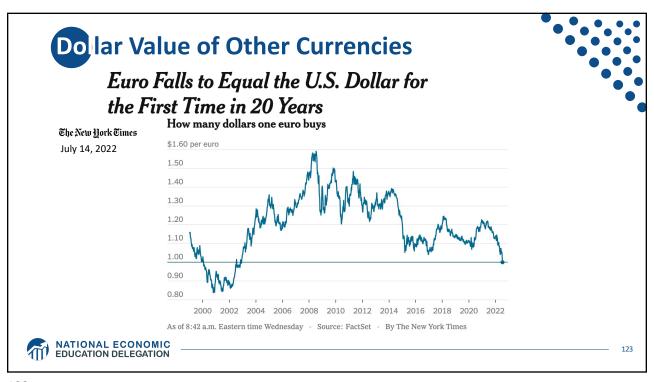




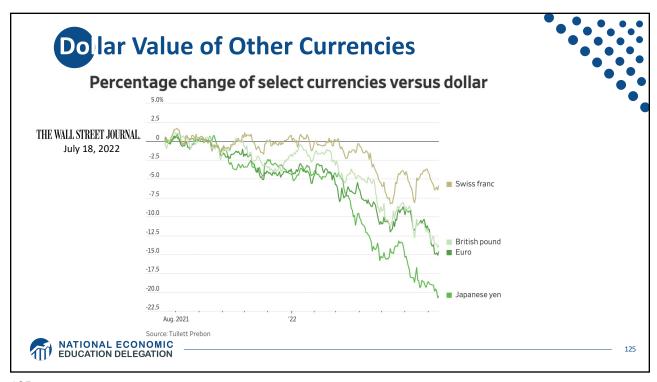


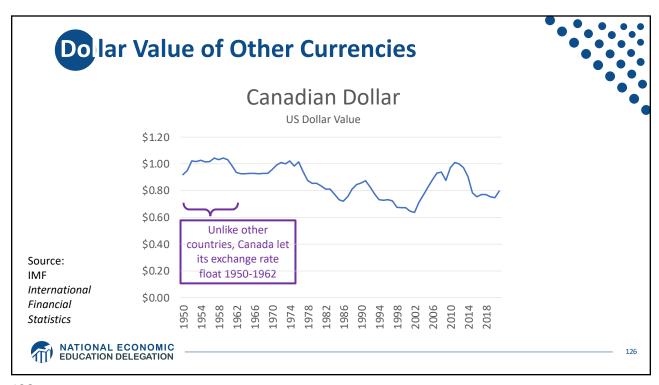




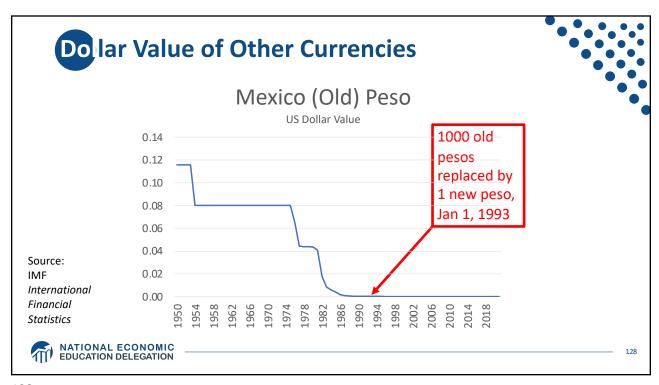


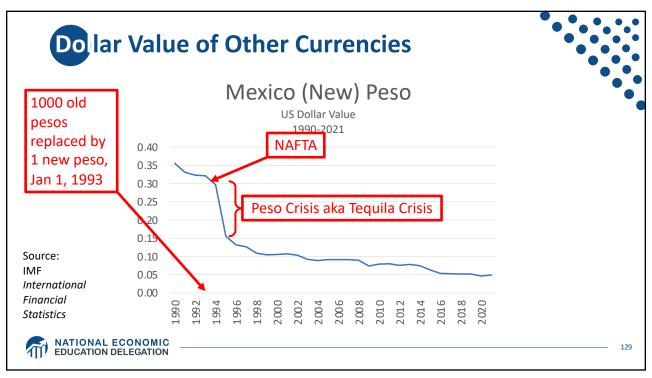


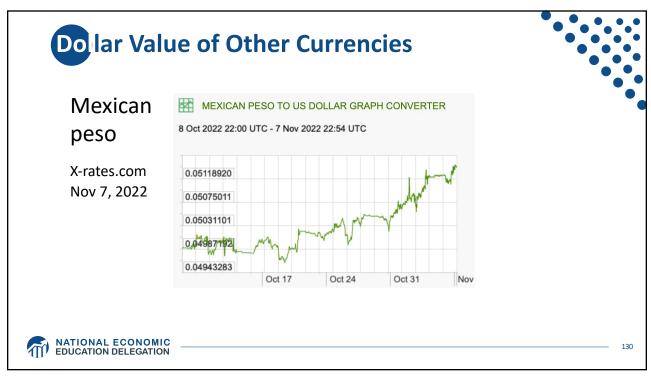


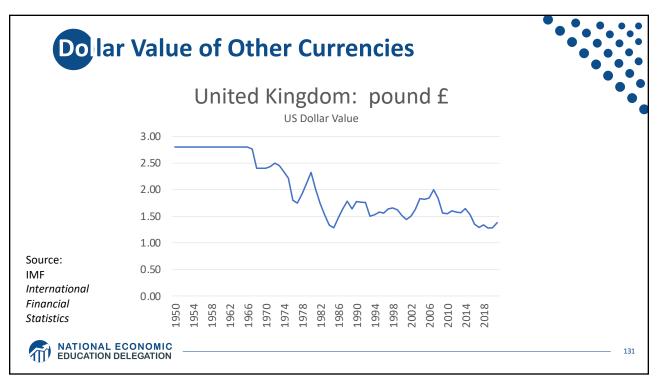


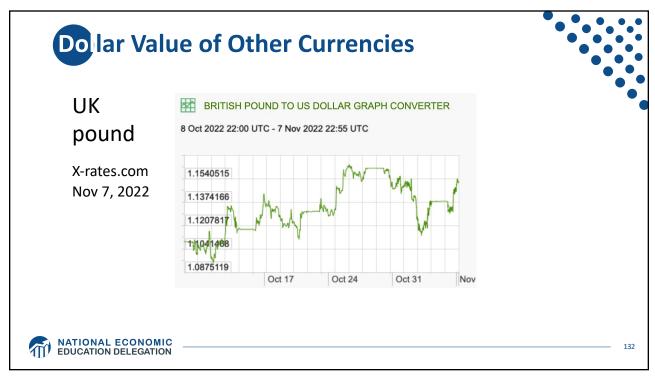


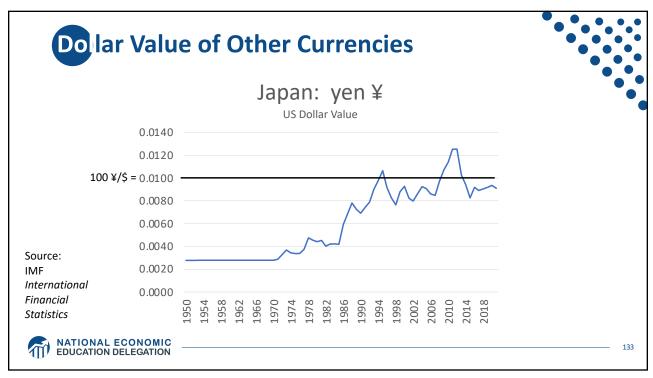


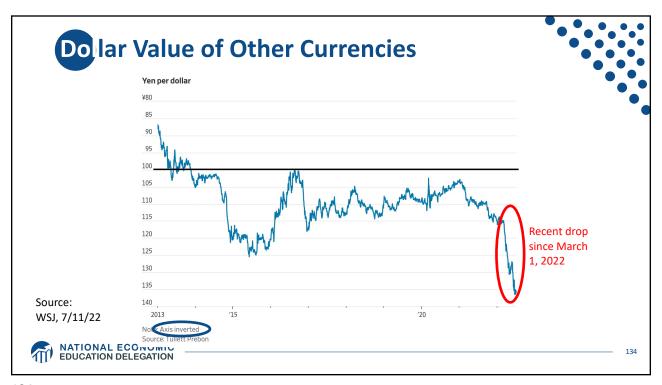


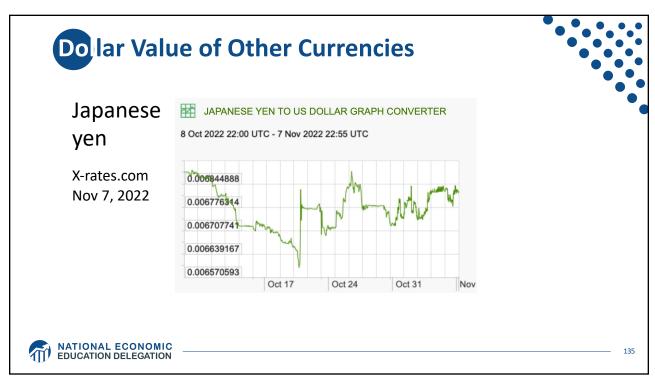


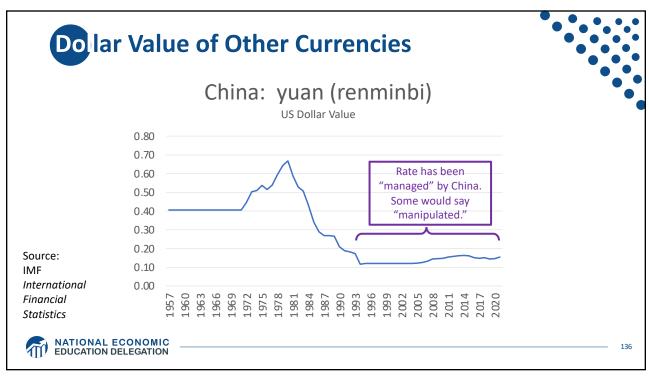






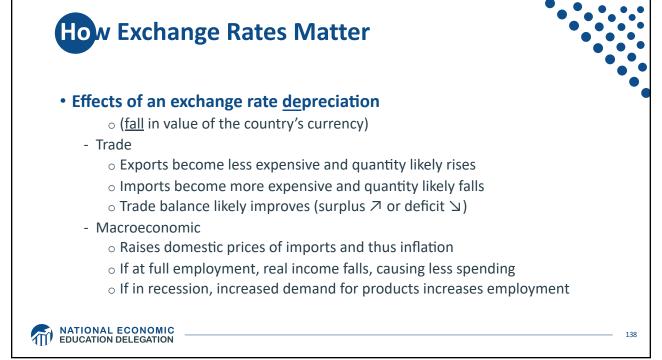






# Chinese yuan X-rates.com Nov 7, 2022 NATIONAL ECONOMIC EDUCATION DELEGATION Nov To Alice Of Other Currencies CHINESE YUAN RENMINBI TO US DOLLAR GRAPH CONVERTER 8 Oct 2022 22:00 UTC - 7 Nov 2022 22:57 UTC

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# How Exchange Rates Matter



- More effects of an exchange rate <u>depreciation</u>
  - o (fall in value of the country's currency)
  - Domestic value of foreign assets and debts rises
    - o Net creditors gain, net debtors lose
      - · Effect on interest/dividend payments is opposite
    - o Those who have borrowed abroad to finance investment at home lose
      - · May go bankrupt

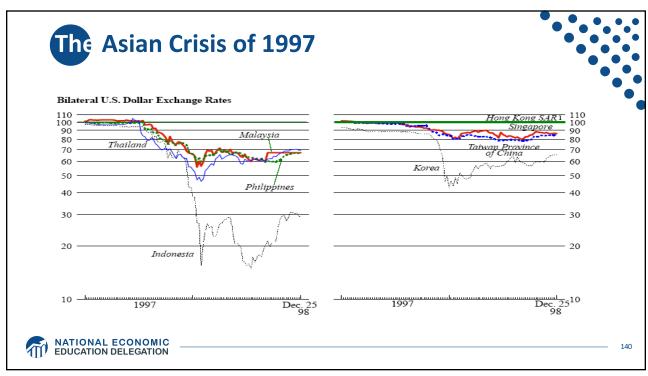
### • Effects of <u>expectation</u> of exchange rate <u>depreciation</u>

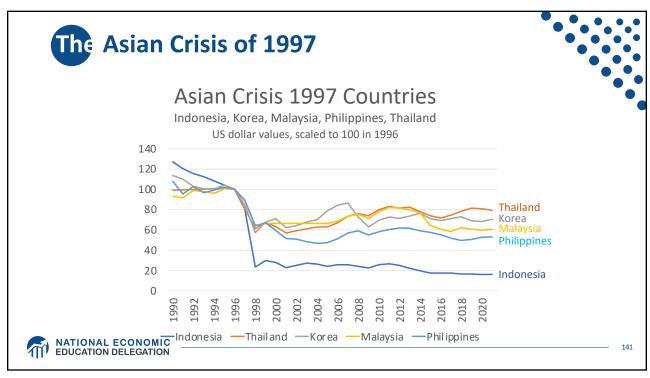
- Holders of assets in domestic currency try to sell and move abroad
  - → This speculative attack causes greater depreciation
- Example from 1997 Asian Crisis



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# **Currency Manipulation**



### Currency Manipulation

- Defined as
  - o Intervention in the exchange market by Central Bank or Government
  - o In order to push down, or keep down, the value of the currency
- Presumed purposes: To...
  - o Increase exports
  - o "Gain unfair advantage" in international trade and competitiveness
  - o Stimulate the domestic economy
  - o Accumulate foreign assets



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# **Currency Manipulation**



### US Definition of Currency Manipulation

- US Treasury issues report on currency manipulation twice each year
- Criteria for manipulation
  - 1. Persistent net official purchases of foreign currency (more than 2 percent of GDP)
  - 2. A material trade (current account) surplus (more than 2 percent of GDP)
  - 3. A significant bilateral trade surplus with the United States (more than \$20 billion per year)



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# **Currency Manipulation**

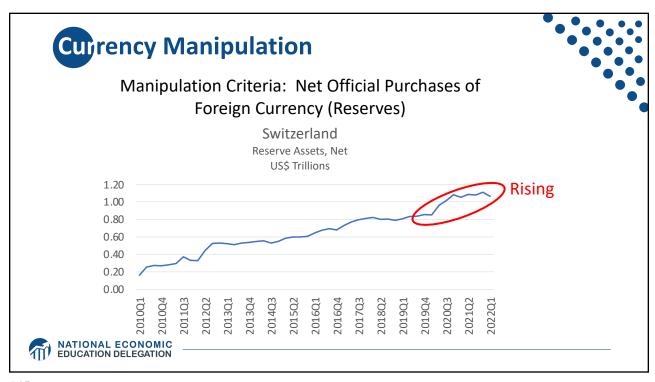


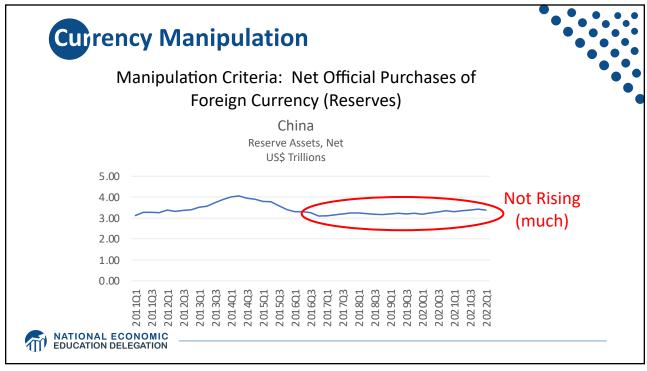
### • US Treasury Report June 10, 2022

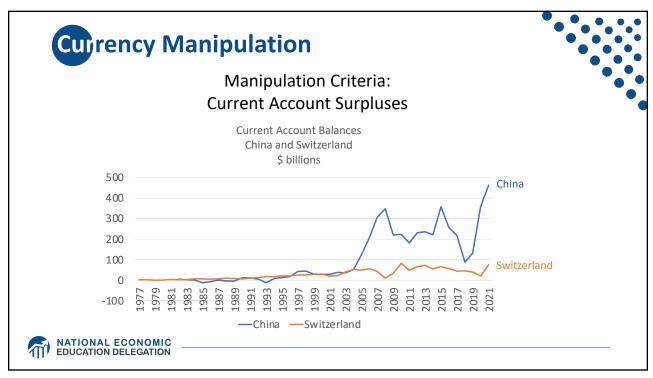
- "No major U.S. trading partner during 2021 manipulated the rate of exchange between its currency and the U.S. dollar for purposes of preventing effective balance of payments adjustments or gaining unfair competitive advantage in international trade."
- "Switzerland meets all three criteria ... over the four quarters through December 2021, and therefore Treasury is conducting enhanced analysis of Switzerland's macroeconomic and exchange rate policies in this Report.
- 12 economies are on "Monitoring List" China, apan, Korea, Germany, Italy, India, Malaysia, Singapore, Thailand, Taiwan, Vietnam, and Mexico
- Look at data for two: Switzerland and China



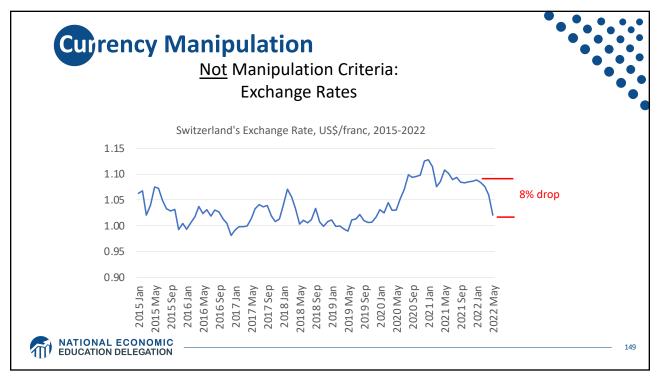
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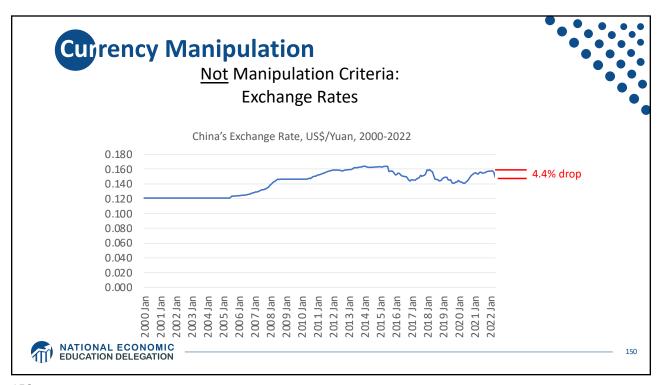




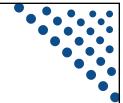












# **Any Questions?**

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