#### Structural Shifts in the Global Economy

- 2023 Federal Reserve Jackson Hole Meeting
  - Christine Lagarde, EU Central Bank
    - Rapid change & uncertainty
      - War in Ukraine
      - Global Energy Crisis
      - Energy Transformation

#### Elite's obsessions

- Climate Change...Climate Reality
  - Scapegoat for bad policy decisions
- Energy Transition
  - 145 years of electrification
  - Obsolete infrastructure
    - France ~70% nuclear power
      - Reactor life expectancy is 30 years...average age is 39

## Structural Shifts in the Global Economy

80 years ago...

- End of WWII
  - USA only major economy not devastated by war
  - Wartime technologies applied to civilian use
  - Population explosion
    - 1946 ~2.3 billion people...today 8 billion...>300%

#### From Empires to ISMs

- Capitalism
- Socialism
- Soviet Communism
- Chinese Communism

- Marxism
- OPECism
- Extractionsim
- Drug Lordism

## Industrial Policy & Strategic Trade

## Population Growth...rising tide lifts all boats

All systems "worked" because of population growth & DEBT

Since 1946 real global GDP grew ~3.5%/year

Population + Technology + DEBT = Growth

## Global Finance (DEBT) pre-WWII to present

- Bank of International Settlements
  Bottomless Foreign Aid
  (1930)
  (buying allies & Strategic Trade)
- Import-Export Bank of USA (1934)
   New Economic Policy (1971)
- Japanese Sanctions & Seizures (1940)
- Lend/Lease (1941)
- Brenton Woods Agreement (1944)
  - World Bank & IMF
- Marshall Plan (1948)

- Plaza Accord (1985)
- Japan & Soviet Union implode (1991)
- China joins WTO (2000)
- USA Quantitative Easing (2008)

## ~45 years after WWII

- 1990's Boomers peak productivity
- Urbanization slows population growth
- WWII Technologies & Industrial Policies run their course
- ISMs economies starts to unwind
  - Japanese bubble bursts (#2 global economy) 1991
  - Soviet Union collapses (#2 superpower) 1991

#### USA sole superpower & China factory to the world

## Post-Cold War Peace Dividend (1990s-2000s)

- Boomers post peak (negative)
- Population increase slowing (negative)
- Peace Dividend (positive)
  - Former Soviet Block & 3<sup>rd</sup> World now open for trade
  - China & Asia emerge as low cost producers (deflationary)
    - Asia considered as a non-military threat
  - Cold War technologies applied to civilian use
    - Internet
    - GPS, Satellites & Telecom

After 30 years the Peace Dividend has come to an end

#### 2008 Financial Crisis & 2020 Pandemic

- Population growth slowdown
  - Expansion of trade agreements
- Declining productivity
- Global Bad Debt...extend & pretend
- Quantitative Easing
- Negative & Near Zero Interest Rates

# 15 years of free money

#### Japan invented Quantitative Easing

- Japan's economy peaked in 1991
- Japan debt to GDP is the highest in the world 260%
- Implemented negative interest rates in 2016...just going positive
- Depopulation is DEFLATIONARY
  - 1991 fertility rate: 1.57 (about where USA is today)
  - 2023 fertility rate: 1.33 (above China)
  - Japan's population will half by 2097 or sooner (two generations)
- Depopulation & Technology (deflationary) have allowed Japan's massive debt

## Can the Global Economy imitate Japan?

## Structural Shifts in the Global Economy

Population stagnation & decrease

China Factory to Foe

Strategic Competition & Industrial Policy

• End of Era of Cheap Money?

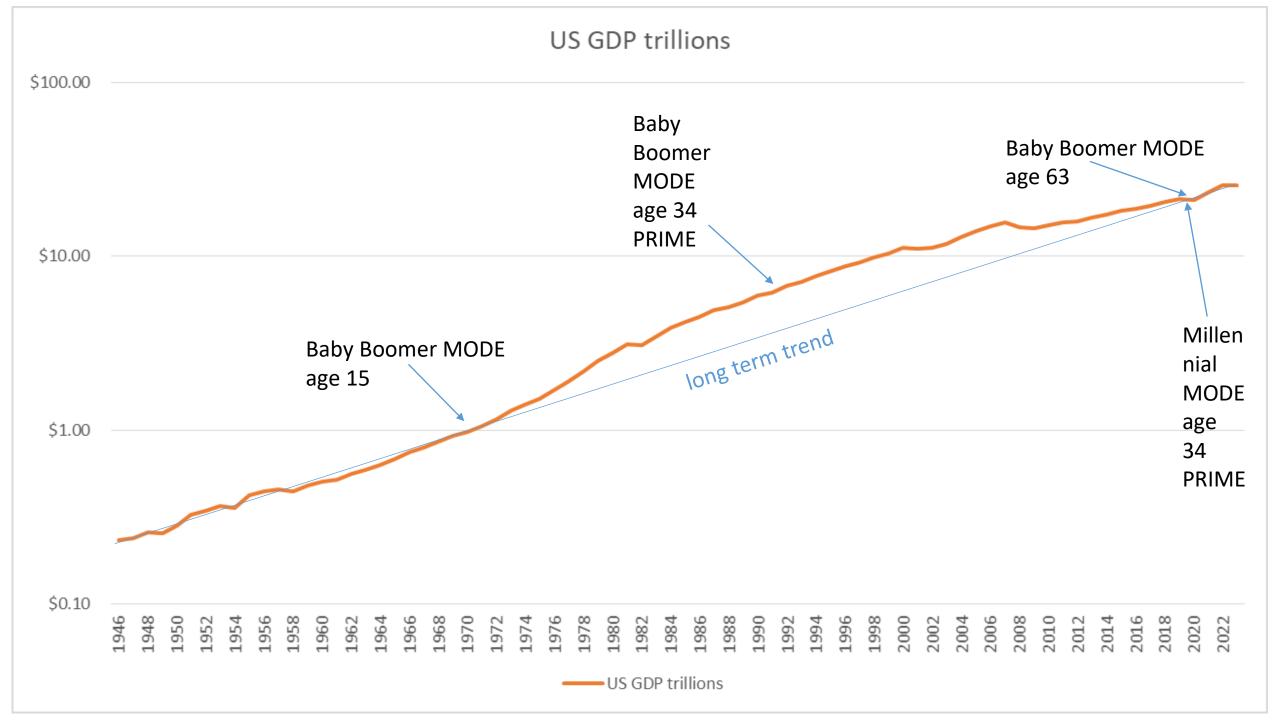
#### Population Population Population

- Global fertility is 2.3
- Sustainable rate is 2.1
- Highest fertility rates are in countries that can't feed themselves (sub-Saharan Africa)
- Post-Pandemic fertility rates have PLUMMETED
  - USA 1.6
  - Europe Union 1.53
  - China 1.16
  - India 2.0

#### Global GDP forecast < 3% into the future

- The ISMs economies didn't support growth...growth came from population increases
- Without population increase there is no growth
- Past Global GDP 3.5%
- Poverty purgatory for 7 billion people

Any gains from AI will further decrease the value of human labor



## China Factory to Foe

- Peak Globalization & De-risking from China means HIGHER COSTS
- Persistent inflation
- China's growth & low costs were never sustainable
- China's future is at a cross roads
  - Japanification
  - Soviet style militarism

No other country or region has the attributes that made China successful

#### Strategic Trade...Strategic Competition

- Failure of Diplomacy
  - ISMs economies are not and have never been compatible
    - G20 is no more compatible than BRICS+

 ISMs economies only grew because of Population, Tech & Financial Innovation

#### Wars and rumors of Wars

## Is the Era of Cheap Money Over?

- 2008-2022 era QE & near zero interest rates in USA
- Rates are NOT too high
- Yield Rule of Thumb
  - Nominal GDP Growth = 10 Year Treasury Rate
  - Nominal GDP ~4.9%
  - 10 Year Treasury ~4.67%

#### We're the Recession?

- Leading Economic Indicators have been in decline for 18 months
- The S&P500 has been in decline for 3 months
- The S&P500 peaked 20 months ago (4,796.56 on 1/3/2022)
- The RUSSELL2000 is below it's 4 year moving average & 30% below it's record high (2,458.86 on 11/21/2021)

# \$1.7 Trillion in deficit spending

#### US Dollar has lost >98% of it's 1920 value

•But...

# 1920 dollar didn't buy much