

Osher Lifelong Learning Institute, Winter 2022

Contemporary Economic Policy

Berkshire Community College
January-February, 2022

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National Economic Education Delegation



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Course Outline

• Contemporary Economic Policy

- Week 1 (1/24): US Economy & Coronavirus Economics
- Week 2 (1/31): Climate Change Economics (Sarah Jacobson, Williams College)
- **Week 3 (2/7): Monetary Policy (Geoffrey Woglom, Amherst College)**
- Week 4 (2/14): Cryptocurrencies (Geoffrey Woglom, Amherst College)
- Week 5 (2/28): Federal Debt (Geoffrey Woglom, Amherst College)
- Week 6 (3/7): Health Economics (Veronika Dolar, SUNY, Old Westbury)



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Outline for the Talk

Questions in the Chat.

1. History of Central Banks and the Fed.
2. Institutional Structure of the Fed.
3. Monetary Policy Effects on Employment and Inflation.
4. The Conduct of Monetary Policy
5. The Current Danger Posed by Persistent Inflation



Federal Reserve: The US *Central Bank*

- Central Banks are the government's banks and were typically established to manage currency [Riksbank (1668)] or to help governments to fund wars [Bank of England(1694)].
- First and Second Banks of the United States (1791) & (1816).
- Late 19th century financial crisis culminating in the panic of 1907 leads to the creation of the Federal Reserve System in 1913 to act as a "lender of last resort."
- Now all developed economies have central banks .



Federal Reserve Responsibilities

- **Currency Issue.**
- **Fiscal Agent for the Treasury.**
- **Maintain and oversee “Payments System.”**
- **Bank Regulation and Supervision.**
- **Lender of Last Resort.**
- **Monetary Policy.**



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Three LOL Episodes

1. **Great Depression.**
2. **Great Recession, September through December 2008.**
3. **March 2020.**



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Monetary Policy at the Fed

The Federal Reserve System consists of:

- **Board of Governors** (7 members), located in Washington, DC
- **12 regional Fed banks**, located around the U.S.
- **Federal Open Market Committee (FOMC)**, includes the Bd of Govs and presidents of 5 of the regional Fed banks on a rotating basis



Jerome Powell
February 2018

- The FOMC has 8 scheduled meetings a year to set monetary policy.



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Congressionally Mandated Goals for the Fed

The “Dual Mandate:”

1. “Stable prices” which has been interpreted as a 2% rate of inflation in the Personal Consumption Price Index (which corresponds to about 2.5% inflation in the more well-known CPI).
2. “Maximum” employment is the highest level of employment (lowest unemployment rate) consistent with mandate 1.

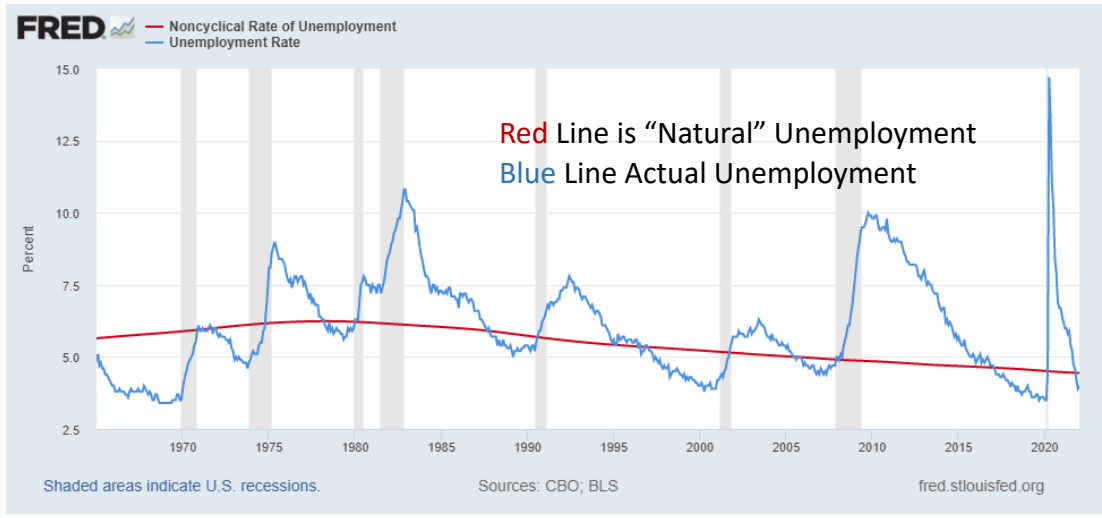


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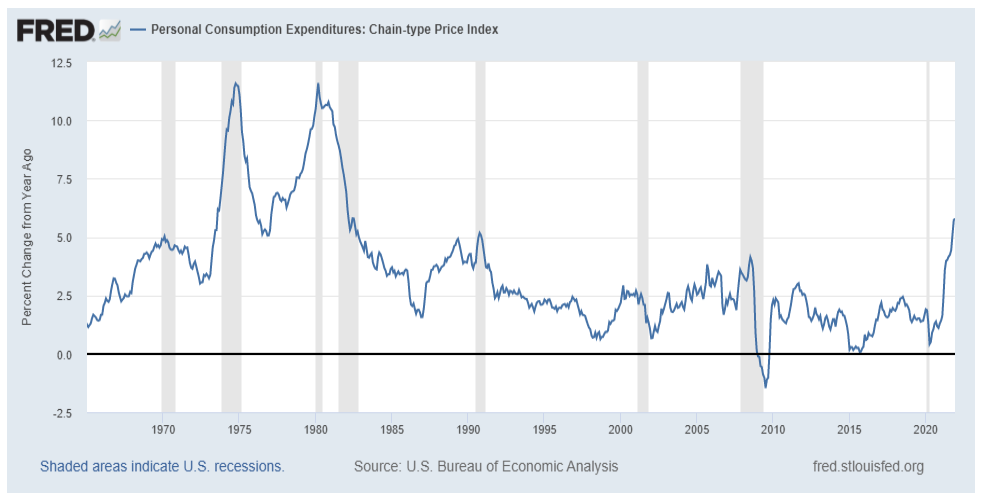
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Track Record on Unemployment



Track Record on "Price Stability"



A Few Definitions

- **GDP and inflation.**

Total Spending or “Aggregate Demand.”

- **“Potential GDP”** measures what the economy could produce at normal capacity.
- The **“Natural Rate”** of unemployment is the unemployment rate when the economy is at potential (the **“full-employment,”** unemployment rate.)
- **Short and Long runs**



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Determinants of Unemployment & Inflation

Short run:

- **Unemployment:** The higher the level of total spending (“aggregate demand”), the lower the unemployment rate.
- **Inflation:**
 1. Total spending above the economy’s normal capacity (“potential output”) tends to *increase* inflation.
 2. Increase in production costs (e.g., “supply chain bottlenecks.”)
 3. Expectations of high inflation can cause inflation to be high.



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Determinants of Unemployment & Inflation

Long run:

- **Unemployment:** Is determined by labor supply and demand and is independent of monetary policy; unemployment will be at the natural rate.
- **Inflation is totally determined by the Fed!**

Economic Determinants in FOMC Projections.

| Economic Projections of the FOMC 12/2019 | | | | | |
|--|--|---------|---------|---------|------------|
| Variable: | Central Tendency (excludes top and bottom 3) | | | | |
| | 2019 | 2020 | 2021 | 2022 | Longer run |
| Unemployment rate | 3.5-3.6 | 3.5-3.7 | 3.5-3.9 | 3.5-4.0 | 3.9-4.3 |
| Inflation | 1.4-1.5 | 1.8-1.9 | 2.0-2.1 | 2.0-2.1 | 2.0 |

The Fed's Affects the Economy via Interest Rates

- Higher Interest rates discourage firms from buying new plant and equipment, households from buying new homes and tend to lower stock prices (!).
- Lower spending tends to raise unemployment and eventually lowers inflation.



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Become a Central Banker in One Slide!

- If you are more concerned that inflation is too high, raise interest rates.
- If you are more concerned that unemployment is too high, lower interest rates.
- Inflation and unemployment just right: keep rates the same.



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Fed Policymaking in Action

| Economic Projections of the FOMC 12/2019 | | | | | |
|--|--|---------|---------|---------|------------|
| Variable: | Central Tendency (excludes top and bottom 3) | | | | |
| | 2019 | 2020 | 2021 | 2022 | Longer run |
| Unemployment rate | 3.5-3.6 | 3.5-3.7 | 3.5-3.9 | 3.5-4.0 | 3.9-4.3 |
| Inflation | 1.4-1.5 | 1.8-1.9 | 2.0-2.1 | 2.0-2.1 | 2.0 |
| Interest rate | 1.6 | 1.6-1.9 | 1.6-2.1 | 1.9-2.6 | 2.4-2.8 |



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One Big Complication: Lags

- **Milton Friedman: Monetary Policy affects GDP and Inflation with Long and Variable (Unpredictable) Lags.**
- **Raising interest rate today does nothing to spending today nor to inflation.**
- **But over time spending slows and eventually inflation falls.**
- **Friedman believed that lags led to the Fed to “oversteering” the economy consistently.**



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What about Fiscal Policy (tax rates and govt spending)?

- **Fiscal Policy can also affect aggregate demand, but the Fed has been given primary responsibility:**
 - Fiscal Policy should focus on the government spending and tax rates that will allow the economy to function efficiently with equity.
 - The Fed has the necessary tools to achieve the dual mandate, except when it needs help in big recessions.
- **Reasons:**
 - The Fed can act more quickly and is apolitical.
 - In the *long run*, monetary policy does not affect the composition or level of GDP.

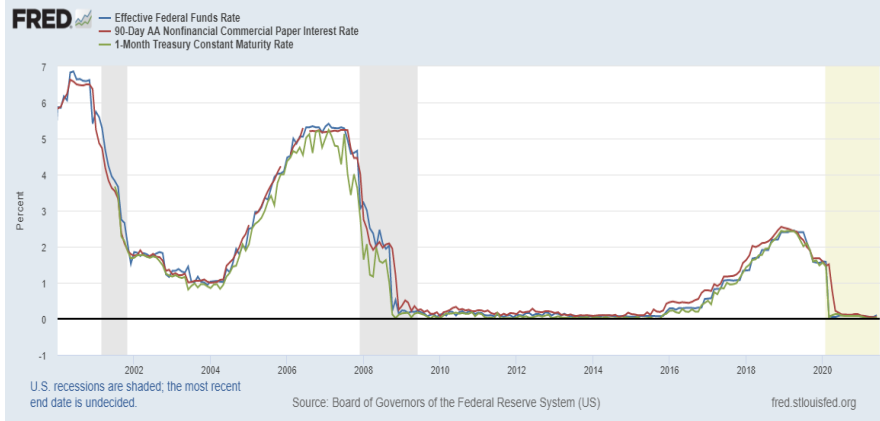


A Closer Look at Interest Rate Control

- **Primary Tool:** the Fed targets the *federal funds rate* (or fed funds rate for short), the interest rate on overnight loans between banks.
- **From the bank's perspective these loans are very close substitutes to other short-term, safe assets such as Treasury Bills.**
- **Therefore, controlling the fed funds rate gives the Fed close control over all safe, *short-term* interest rates.**



The Fed and Short-term Interest Rates



Blue is the rate on fed funds.
Green is the rate on 1 month Treasuries
Red is the rate on 3-month commercial paper

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What about the Money Supply?

Notice the absence of the money supply. The Fed does not believe there is a reliable, short-run link between the money supply and total spending or inflation.

The Minutes of the 6/16/2021 FOMC Meeting mentions:

- Money Supply, M1, M2 – 0 times
- Interest rate – over 20 times

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“Don’t Listen to This Nonsense”

Robert Bartley, Editor of the Editorial page of the *Wall Street Journal* in the 1980s (paraphrased):

“Ronald Reagan proved that economists know nothing about inflation and unemployment. During his first term he was able to do what economists said was impossible: simultaneously reducing inflation and unemployment.”

You will probably not be surprised that I disagree. What do you think I would say?



Two Secondary Tools to affect Interest Rates

- 1. Forward Guidance: Communicating the Fed’s intentions for the future path of short-term interest rates.**
- 2. Long-term Asset Purchases better known as quantitative easing or QE.**

Both of these tools also affects interest rates, and thereby aggregate demand. But their effect is on interest rates on longer term and riskier assets.



Long-Term Interest Rates

- Interest rates on longer term assets (e.g., 10-yr Treasury bond) and on risky assets (e.g., corporate bond rates, home mortgages) have a stronger effect on spending and aggregate demand.
- Unfortunately, the current fed funds rate has much less influence on these interest rates.
- **Instead, long-term interest rates depend on two factors**
 1. The average of expected, future short-term rates over the life of the long-term bond.
 2. “Risk” premia that reflect the possibility of unexpected changes in interest rates and the possibility of default.
- **The Secondary Tools are aimed at affecting these factors.**



Forward Guidance

The Fed “guides” financial market participants about what they intend to do in the future. From the 1/26/22 Policy Statement announced at 2PM:

With inflation well above 2 percent and a strong labor market, the Committee expects it will soon be appropriate to raise ... the federal funds rate.

By telling markets that they intend to raise the fed funds rate soon, they hope to raise expectations of future short-term rates, thereby raising long-term interest rates immediately.





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Asset Purchases or QE

- The Fed since 2009 has purchased long-term (e.g, 10-year Treasury bonds) and risky securities (e.g., Mortgage-backed securities) to directly affect longer-term and risky interest rates.
- The Fed purchases of these securities raises the total market demand and thereby lowers the required interest rates that these securities need to offer.

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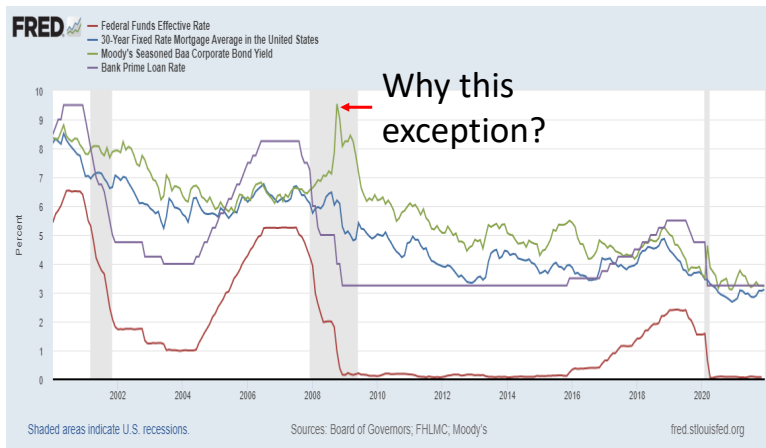
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QE Was a Big Deal

- Initially, \$80 billion per month in longer-term Treasuries and \$40 billion per month in mortgage-backed securities
- As of 2/3/22, the Fed holds over:
 - \$5.7 trillion in US Treasury Bonds, which is almost 25 percent of the total Federal debt held by the public.
 - \$2.7 trillion in mortgage-backed securities, about 15 percent of total mortgages outstanding

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Interest Rates that the Fed Cares About



Blue: 30-yr mortgage rate
 Green: corporate bond rate
 Purple: Prime Loan Rate
 Red: fed funds rate

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A Policy Strategy: Stabilize Expectations of Inflation

- Monetary Policy is much easier if the people believe that the Fed will achieve its inflation target.

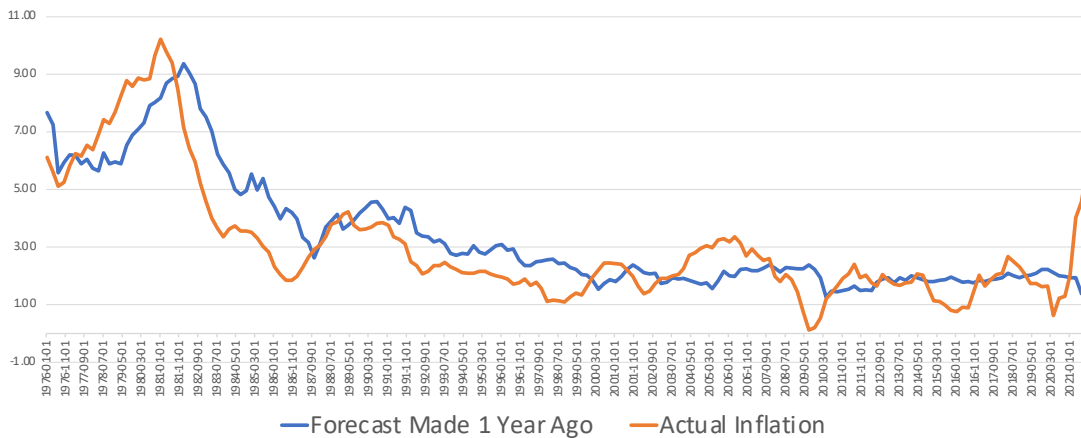
Ben Bernanke (2007):

”...if inflation expectations respond less than previously to variations in economic activity, then inflation itself will become relatively more insensitive to the level of activity...”

- In central bank jargon, stable expectations are “well anchored.”

“Anchoring” Inflation Expectations

Expectations and Subsequent Inflation



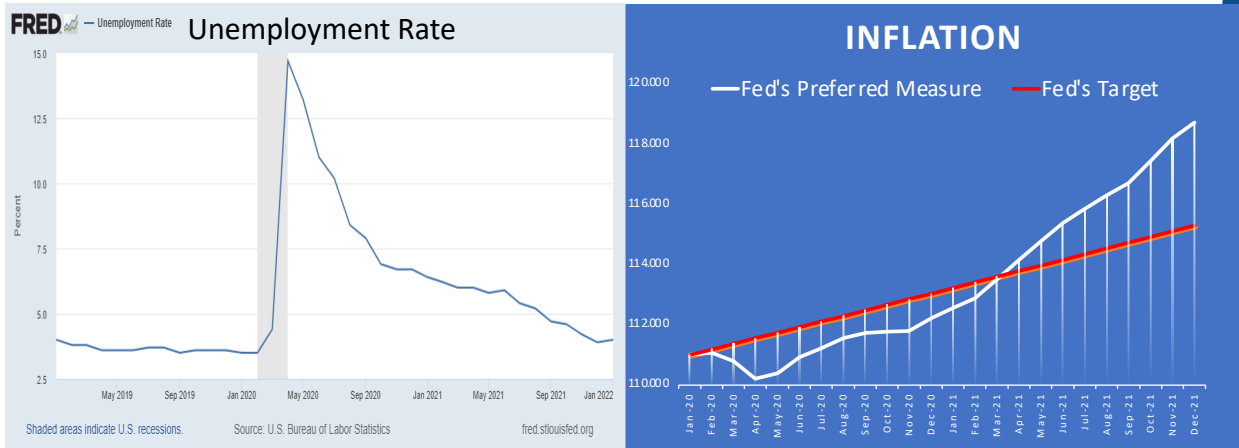
Forecasts: Philadelphia Fed, “Survey of Professional Forecasters”

Anchoring Requires Credibility

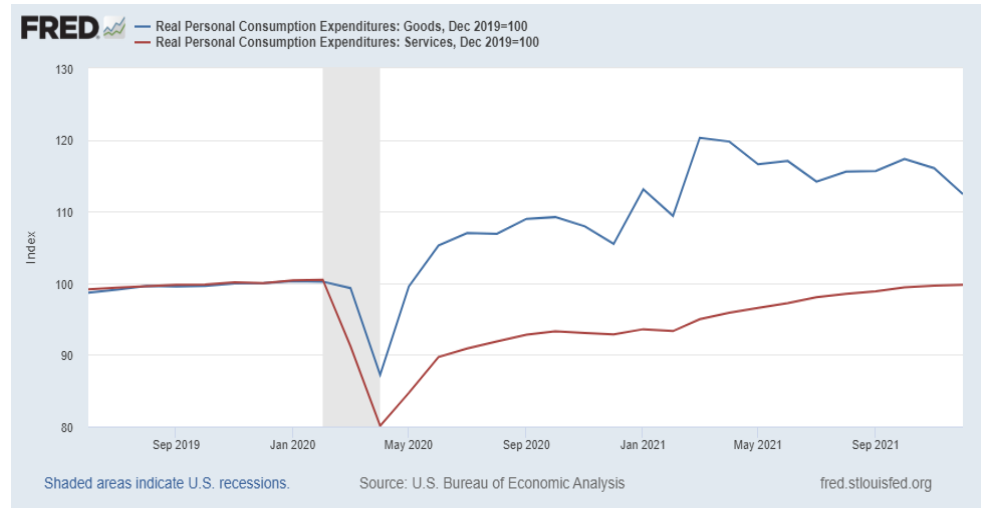
Credibility, the public believes that the Fed will achieve its goals.

- Requirements for Credibility
 1. Transparency (Communication)
 2. Accountability (Performance)
 3. Political Independence

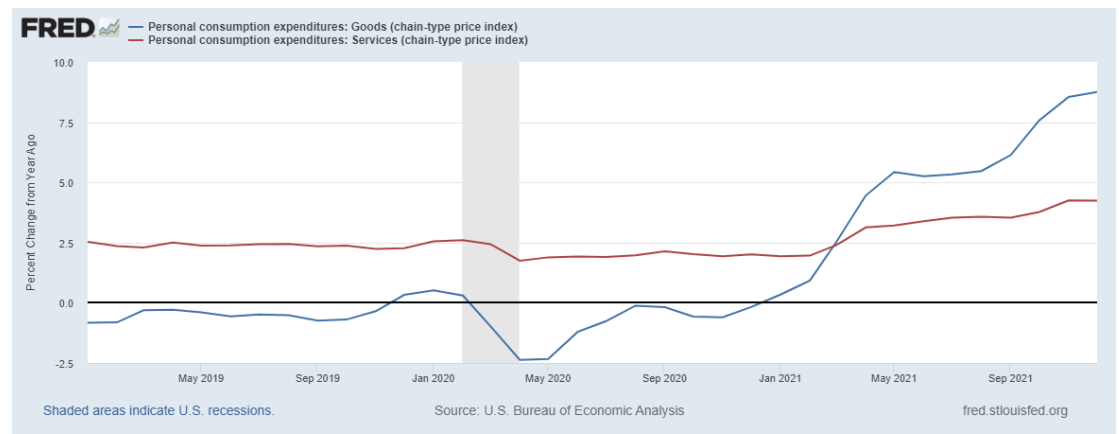
How Has the Fed Been Doing Recently?



What about Supply Chain Disruptions?



Macro Imbalances & Inflation

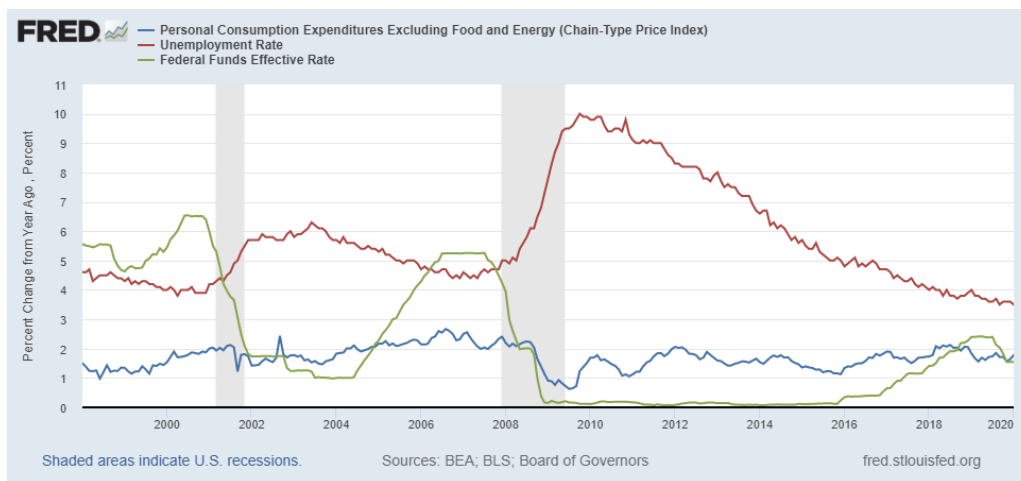


What's at Stake: Inflationary Expectations

- Even the Fed at their Dec 15th meeting admitted, “... that inflation readings had been higher and were more persistent and widespread than previously anticipated,” and noted
- ...the risk that recent elevated levels of inflation could increase the public’s longer-term expectations for inflation to a level ... Committee’s longer-run inflation objective.
- Paul Volcker put the world into a costly and deep recession in 1982 to bring down inflation and to “anchor” inflationary expectations. Could we be on the verge of losing these hard-won gains?



Why Did Powell Do It?



Policy Changes under Powell

- In the Fed's dual mandate put more emphasis on the employment goal relative to the inflation goal.
- Inflation goal switched from targeting forecasted *future* inflation to trying to achieve average *realized* inflation of 2%

Have they forgotten about Lags!



What Have They Done So Far?

- Since November, they have slowed the rate of QE (slowed the rate at which they are adding stimulus!)
- At the January meeting, they recognized that, "the Committee expects it will soon be appropriate to raise ... the federal funds rate."



So Far Inflationary Expectations Look Stable

- Professional forecasters, financial markets and the Fed itself think that inflation in 2022 will be slightly above 2.5%

| Variable: | Medians | | | |
|-------------------|---------|------|------|------------|
| | 2022 | 2023 | 2024 | Longer run |
| Unemployment rate | 3.5 | 3.5 | 3.5 | 4.0 |
| Inflation | 2.7 | 2.3 | 2.1 | 2.0 |
| Interest rate | 0.9 | 1.6 | 2.1 | 2.5 |



If Expectations Start to Increase

The Fed will have a very difficult choice

- Raise interest rates a lot (in an election year) to slow inflation**
 - stalling the recovery.
 - disrupting financial markets.
- Raise interest rates slowly and moderately to cushion the effect on employment**
 - avoids a recession (maybe).
 - inflationary expectations become unanchored



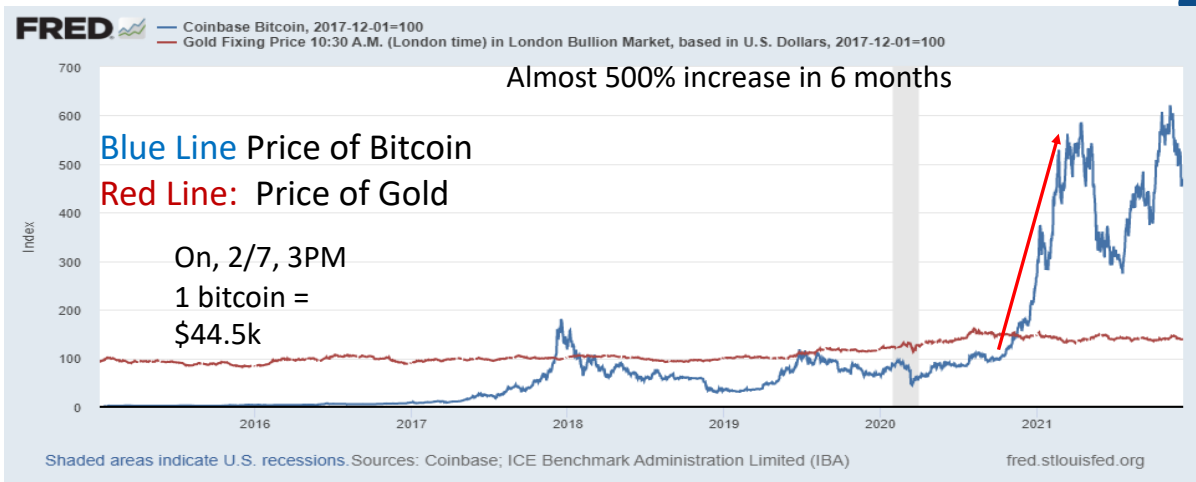
Is the Fed Already Losing Credibility?

John Waldron, President of Goldman Sachs Group Inc. in *Bloomberg*, (1/27/2022):

What’s gone on in the past couple of years has brought “into question the independence of the Fed,” ... He questioned the Fed’s strength to act as an “independent, monetary policy engine that is doing what it thinks is right and not what’s expedient.”

“We might need to bring back Paul Volcker, and have somebody that would be willing to kind of stay the course without regard to exactly what’s going on in the markets.”

Bitcoins: What is the Excitement About?



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Monetary Policy Glossary

- **Gross Domestic Product (GDP):** the *value* of national production during the course of year.
- **Real Gross Domestic Product (RGDP):** GDP adjusted for inflation. RGDP measures the *quantity* of national production.
- **Potential GDP:** What RGDP would be if the economy was operating at normal, full capacity.
- **Inflation:** The average percentage change in prices. The most popular measure is the Consumer Price Index or CPI rate of inflation.
- **Natural Rate of Unemployment:** What the unemployment rate would be if RGDP was equal to potential.
- **Short run:** The current situation of the economy and its prospects over the next year or so. The business cycle reflects the short run
- **Long run:** The average behavior of the economy over a complete business cycle.



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Monetary Policy Glossary

- **Aggregate Demand:** Total domestic spending by households, firms and government on newly produced goods.
- **Interest Rates:** The cost of borrowing by government (Treasury bonds), by firms (corporate bonds and bank loans), by households (mortgages) and by others.
- **Short-term interest rates:** the interest rate on bonds and loans of 1 year or less.
- **Long-term interest rates:** more than 1 year.
- **Risky interest rates:** on bonds and loans that may not be paid back (Corporate bonds, Bank Loans)
- **Federal Funds rate:** The interest rate of overnight loans between banks. It is the primary policy instrument of the Fed.
- **Political Independence:** The extent to which the Fed's decisions are affected by politics.
- **Credibility:** Explaining what actions you are taking and why.

