



In This Issue...

- ✓ Two types of investing “knowledge”.
- ✓ Expiring knowledge fills the headlines and has a short shelf life.
- ✓ Longer-term knowledge provides the basis for the *first principles* of investing.
- ✓ Evaluate today’s expiring knowledge through the lens of first principles.
- ✓ A change in Federal Reserve policy is escalating investor **F**ear, **U**ncertainty and **D**oubt (FUD). Expect more volatility.
- ✓ Some of the sources of the most extreme current price pressures should ease.
- ✓ Policymakers cannot create real economic growth or wealth.
- ✓ Innovation is the wellspring of productivity growth and rising standard of living.
- ✓ Investment opportunities remain for innovation enablers.

Fed FUD and Expiring “Knowledge”

The financial writer Morgan Housel wrote a few years ago about two types of investing knowledge.

There’s *expiring knowledge* that comes at us in firehose fashion primarily through the daily “news”.

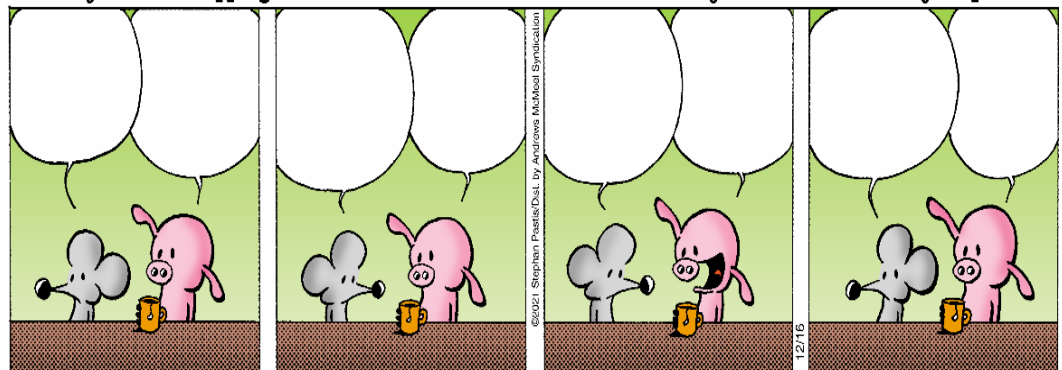
There’s also what Housel terms *long-term knowledge* that primarily comes through reading books.

He notes:

“Expiring knowledge catches more attention than it should, for two reasons. One, there’s a lot of it, eager to buzz our short attention spans. Two, we chase it down, anxious to squeeze out insight before it loses relevance.”

Long-term knowledge is harder to notice because it’s buried in books rather than blasted in headlines. But its benefit is huge. It’s not just that long-term knowledge rarely expires, letting you accumulate it over time. It compounds over time.

Dear Reader: Due to supply chain issues, there will be no jokes in today’s comic, as all of our jokes are currently stuck in shipping containers overseas. Please feel free to fill in your own. Thanks for your patience.



Expiring knowledge tells you what happened; long-term knowledge tells you why something happened and is likely to happen again. That 'why' can translate and interact with stuff you know about other topics, which is where the compounding comes in."

Long-term knowledge, we believe, helps provide the *first principles* of investing—how the economy and markets “work”.

Even though expiring knowledge can have a short shelf life, it cannot be ignored. The economy and commerce are dynamic. Potentially significant change may well start as expiring knowledge.

We believe the probability of investment success is significantly improved by evaluating the significance of today’s expiring knowledge through the lens of first principles (long-term knowledge).

For example...

Yardeni’s List

On numerous prior occasions we have noted that the Financial Panic of 2008 was a seminal event for investor psychology.

Fear, Uncertainty and Doubt (“FUD”) about many aspects of investing and economics increased in the wake of the housing boom gone bust and related events of 2008.

The impact of 2008 on investors psychology is understandable. After all, the financial system back then came dangerously close to melting down in a manner not experienced since the Great Depression.

Fortunately, the Federal Reserve of 2008 had learned from the grave mistakes of their 1930s’ “Fed” counterparts. In the heat of the 2008 Panic, the Fed fulfilled its lender-of-last-resort role and prevented a financial system collapse.¹

While the Fed’s actions helped stem the panic, deep-seated general anxiety continues to linger.

Since the start of 2009, economist Ed Yardeni has been keeping a list of events that have triggered episodes of pervasive, heightened investor FUD. Yardeni’s “panic attack” list is on the next page.

About the list he notes:

"These are my subjective picks. A few of them have triggered full-fledged (stock market price) selloffs, when the (U.S. stock) market declined 10%-20%. Most have caused minor stock selloffs but were accompanied with lots of fear that they might lead to stock 'bear' markets. All of them turned out to be (stock) buying opportunities."

Count on an addition to the list very soon

There are currently 71 entries on Yardeni’s list. Having them all fit on one page requires print so small it’s hard to read the entries.

That’s Yardeni’s point, however. The list is a reminder that there are always plenty of things to worry about. And it’s also a reminder that many—perhaps most—of the worries that can dominate the headlines and our attention for days and weeks will also likely be expiring knowledge—difficult to even remember when looking back a short time later.

¹ The Fed was formed in 1914 after the Financial Panic of 1907 created the desire for a lender-of-last-resort. Leaders believed a central bank patterned after the Bank of England, which had a long history of quelling financial panics, was necessary. Unfortunately, the 1930s’ Fed failed miserably in the heat of the battle and that financial panic morphed into the Great Depression.

As we have noted in the past, the dynamism and adaptability within the U.S. economy are significantly underestimated. (One of our first principles of the U.S. economy.) Problems create opportunities to provide solutions. Each day millions of minds are busy thinking of ways to solve today's problems. Adaptability and dynamism are often what makes life better, making some of the expiring knowledge "expire".

Still, today's "news" is filled with issues that may trigger intense investor FUD; tensions with Russia, China, and Iran, COVID-19 variants, a polarized Congress and country, the growing budget deficit, plans for huge fiscal spending and tax increases, mounting regulatory burdens, supply chains disruptions, stagflation, stock price valuations, and the Fed signaling it's going to hike interest rates.

These are all legitimate concerns. One or more will likely trigger significant financial market volatility and become another addition to Yardeni's list.

What is likely to be the next addition to the list?

If one were to review Yardeni's list with a magnifying glass, you would find that issues surrounding the Fed were a frequent source of the FUD events on his panic attack list.

US Stock Market Panic Attacks, 2009-2021					
Panic Attack	Start Date	Triggering Events	Panic Attack	Start Date	Triggering Events
71	11/26/2021	WHO designates Omicron a Covid-19 variant of concern	36	6/10/2014	ISIS invasion of Iraq
70	9/21/2021	Evergrande / energy crisis / inflation	35	4/3/2014	Momentum stocks meltdown
69	2/22/2021	Return of the Bond Vigilantes	34	3/19/2014	Yellen rate-hike scare
68	9/2/2020	Overvaluation correction & election jitters	33	2/28/2014	Crimea invasion
67	1/24/2020	Coronavirus	32	1/23/2014	Emerging markets mini-crisis
66	8/14/2019	Yield curve inverts	31	12/14/2013	Fed taper fears
65	8/1/2019	Trump threatens new tariffs on China	30	9/28/2013	Looming budget deadlines & debt ceilings
64	5/6/2019	US-China trade war escalates	29	8/17/2013	Fed speculation & weak retail sales
63	10/3/2018	Powell's hawkish interview	28	5/21/2013	Bernanke's taper talk
62	3/1/2018	Trade war talk	27	4/16/2013	Worries about slowdown in China / Commodities plunge
61	2/2/2018	Wage, inflation fear	26	2/23/2013	Fed comments on ending QE
60	8/9/2017	North Korea crisis	25	12/29/2012	Lack of fiscal cliff deal
59	5/17/2017	Trump impeachment scare	24	11/10/2012	Obama reelection / fiscal cliff fears
58	10/28/2016	FBI flags Hillary Rodham Clinton	23	10/13/2012	Lowered IMF global growth outlook
57	9/9/2016	Fed tightening tantrum	22	9/29/2012	US economic weakness / Spain's bank stress tests
56	6/23/2016	Brexit vote	21	7/21/2012	Spanish bond yields spike
55	2/11/2016	Price of West Texas Intermediate oil bottoms	20	7/7/2012	Libor scandal
54	1/29/2016	Japan adopts NIRP (near-zero interest-rate policy)	19	6/30/2012	Negative Operation Twist news
53	1/20/2016	Brent bottoms at \$27.88	18	6/2/2012	Eurozone debt crisis
52	1/14/2016	Endgame Panic	17	5/5/2012	Eurozone debt crisis
51	1/4/2016	Williams' tightening warning	16	4/14/2012	Eurozone debt crisis
50	12/11/2015	Third Avenue blows up	15	4/7/2012	FOMC members raise end-of-easing fears
49	8/24/2015	ETF flash crash	14	3/24/2012	Slowing China growth
48	8/22/2015	Yuan devalued	13	3/10/2012	Greek debt restructuring
47	7/20/2015	Chinese stocks sink again	12	8/1/2011	Eurozone debt crisis
46	6/27/2015	Greece sets 7/5 vote	11	5/1/2011	Greece debt crisis
45	3/11/2015	Oil falls, dollar rises	10	3/11/2011	Japan nuclear disaster
44	1/26/2015	Renewed Grexit scare	9	2/22/2011	Libyan oil crisis
43	1/15/2015	Swiss franc unpegged	8	11/12/2010	Cisco profit warning/Chinese slowdown fears
42	1/12/2015	Brent oil price drops below \$50/bbl	7	8/13/2010	Bernanke's confusing message
41	12/3/2014	Brent oil price drops below \$70/bbl	6	7/2/2010	Investors fear US slipping back into recession
40	9/30/2014	Global growth and Ebola virus scares	5	5/7/2010	Greek debt crisis / flash crash of 9% in DJIA
39	7/29/2014	Sanctions imposed on Russia	4	1/22/2010	Chinese regulators begin to curb lending / Obama proposes limits on bank risks
38	7/17/2014	Malaysian jet crisis	3	7/2/2009	Weak jobs report hammers stocks
37	7/10/2014	Portuguese bank panic	2	2/10/2009	Fears of nationalizing US banks / lack of confidence in government
			1	1/9/2009	Weak jobs report / worst holiday spending season on record

Source: Yardeni Research, Inc.

Investors are hyper-sensitive to Fed policy changes. Perhaps overly sensitive.

Back when Alan Greenspan was Fed Chair, some on Wall Street thought the thickness of the briefcase Greenspan carried to Fed meetings foretold changes in Fed Policy. The thicker the briefcase, the greater chance the Fed would soon be raising rates was the theory. So, some Wall Street Fed watchers would try to catch a glimpse of Greenspan's briefcase and gauge whether it was "thick" or not.

Yikes, talk about hyper-sensitivity!

The current Fed is now "pivoting" to a less stimulative policy tilt. They have announced they will be scaling back the bond market liquidity injections that they initiated in the heat of the pandemic shutdowns of 2020.

Minutes from their most recent meeting also suggest they expect to soon raise those interest rates under their control. Market expectations are for 100 basis points of rate hikes (rates going from nearly 0% to 1%) accomplished in four installments.

Increases in market volatility in recent days suggest that events surrounding Fed policy may well be the source of another episode of FUD intensification for Yardeni's list.

Fed policy change context

A shift in Fed policy shouldn't be a real shocker. The emergency policy stance adopted to help counter the COVID-19 shutdowns is no longer needed with the economy recovering.

Experience suggests to us that when the Fed embarks upon a pivot like the one presently underway, market expectations tend to overestimate the number of rate hikes that end up occurring.

We also note that even if the now widely forecasted interest rate hikes do occur, interest rates will likely remain at low levels relative to history. The economic expansion does not appear at risk of slipping into recession.

General corporate earnings growth should also continue to grow—although at a significantly slower pace (around 8%+) than 2021's re-opening distorted advance (40%+). Rising earnings should help provide support for stock prices.

We want to be crystal clear about the Fed's importance. Anyone that doubts the power of their policies need only look at their Great Depression policy mistake.

Or their "fool-in-the-shower" policy implementation during the inflation prone economy of the 1970s. (Economist Milton Friedman described fool-in-the-shower policy as the Fed wildly jerking policy between "too hot" and "too cold" extremes.)

One cannot be complacent about the power of Fed policies. But it's also important to note that **the Fed (or politicians in Washington D.C. or within statehouses) cannot create real economic growth or wealth.**

First principles tell us that the wellspring of economic growth is innovation. Commercialized innovation drives productivity growth. And productivity growth drives the standard of living higher.

Most innovation occurs in the private sector. It's the result of the millions of minds working to solve the problems of everyday life as we noted earlier.

- E-commerce, which continues to grow, is also restraining the rate of inflation. The following quote from economist Austan Goolsbee reinforces this point.³

"I helped Adobe Analytics create a measure of online inflation analogous to the government's Consumer Price Index (CPI). Using anonymized data from Adobe's marketing analytics division, we examined more than one trillion online transactions made between 2014 and 2017. We found annual online price inflation averaged almost 1.5 percentage points lower than the equivalent CPI.

Over the past 12 months, that gap has likely widened. Adobe's latest release found online prices over that interval to be ('only') 3.5 percent higher – more than three full percentage points below the headline inflation rate of 6.8 percent. In November, online prices fell 0.2 percent as the CPI rose 0.8 percent.

In other words: The more someone shops online, rather than in stores, the less inflation the individual faced."

In addition, we believe demographic trends have made the economy less inflation prone:

- The overall population in the U.S. is projected to grow slowly. The rate of growth in demand for good, services, and loans is significantly less than was the case with the baby boom. As we've discussed on prior occasions, the sheer size of the baby boom generation persistently stressed the supply side of the economy rendering the 1970s' economy inflation-prone.
- In the rest of the developed world (including China), populations are either declining or will do so in the relatively near future. Declining populations are a deflationary force for the world economy.

Some upward price pressures are temporary

Last quarter, we made the case that the disruption to the global supply chains due to pandemic shutdowns was unlike anything experienced since the end of World War II.

At World War II's end, the goods production side of the U.S. economy had to undergo a massive adaptation adjustment. Production needed to move from building items for war (tanks, ships, guns, etc.) to building consumer goods.

The pivot back to private sector goods production was a **process** that took time to unfold. Inflation surged as pent-up demand outran the speed of the ramp-up in private sector goods production.

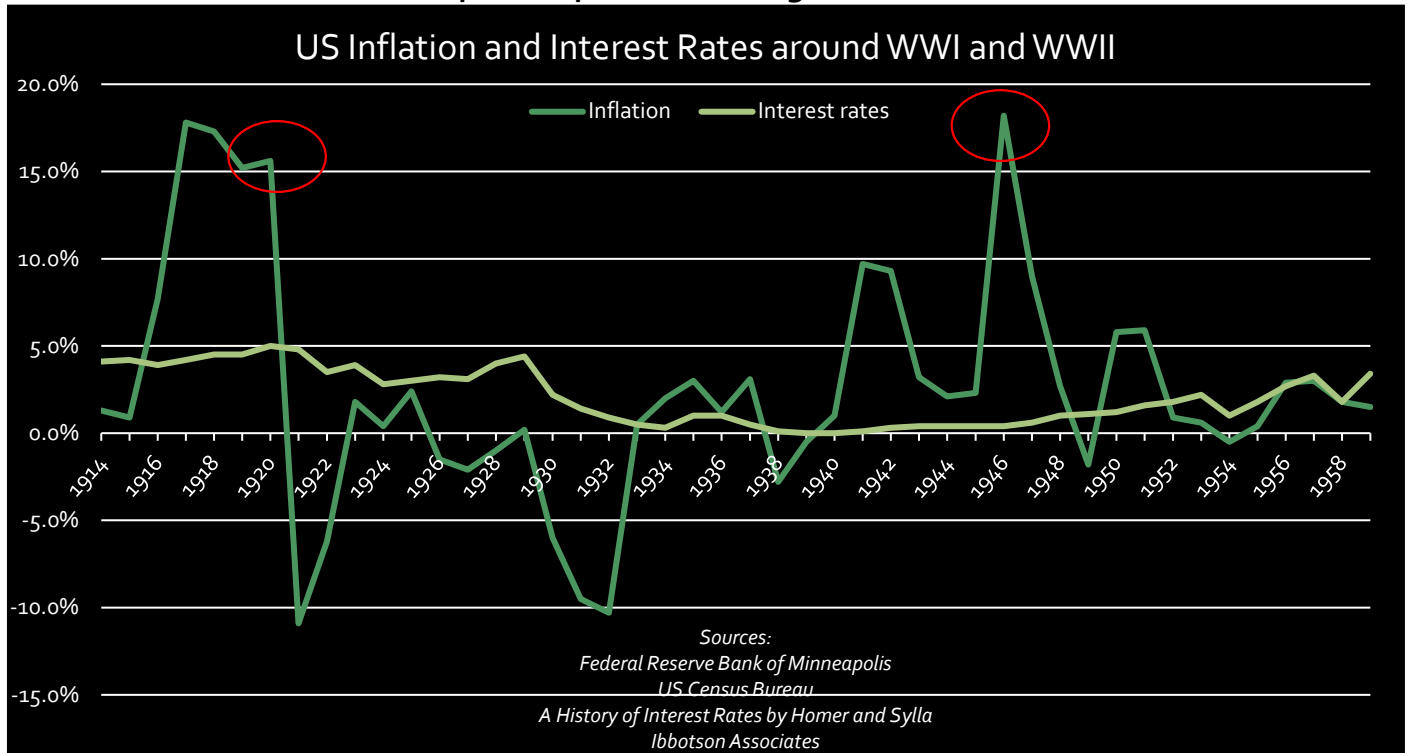
Chart 1 tracks inflation trends around World War II...and we also added the period encompassing World War I when a similar post-war goods adjustment process occurred.

Post-war inflation was significant, but temporary, in both instances.

The economy of today is much different than it was in those earlier periods. But the "take-away" from these earlier periods is that inflation from events that temporarily overwhelm production eases when the goods production process and underlying supply chains are restored.

³ "The Missing Data in the Inflation Debate", Austan Goolsbee, [New York Times](#), December 30, 2021

Chart 1: Rapid post-war inflation proved temporary (red circles in chart) once production adapted to private sector goods demand.



Encouragingly, there are incipient signs that supply chain pressures are easing. See Chart 2 and 3 nearby.

Chart 2: New manufacturing orders had been outstripping production capabilities for most of 2021 (yellow line in chart). That gap has closed, suggesting production is catching up.

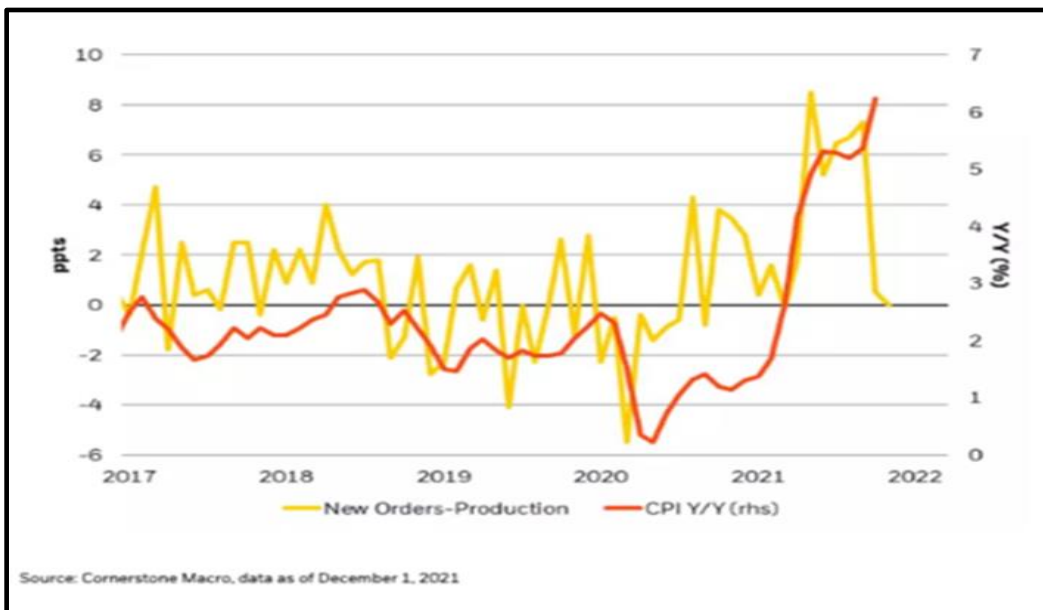
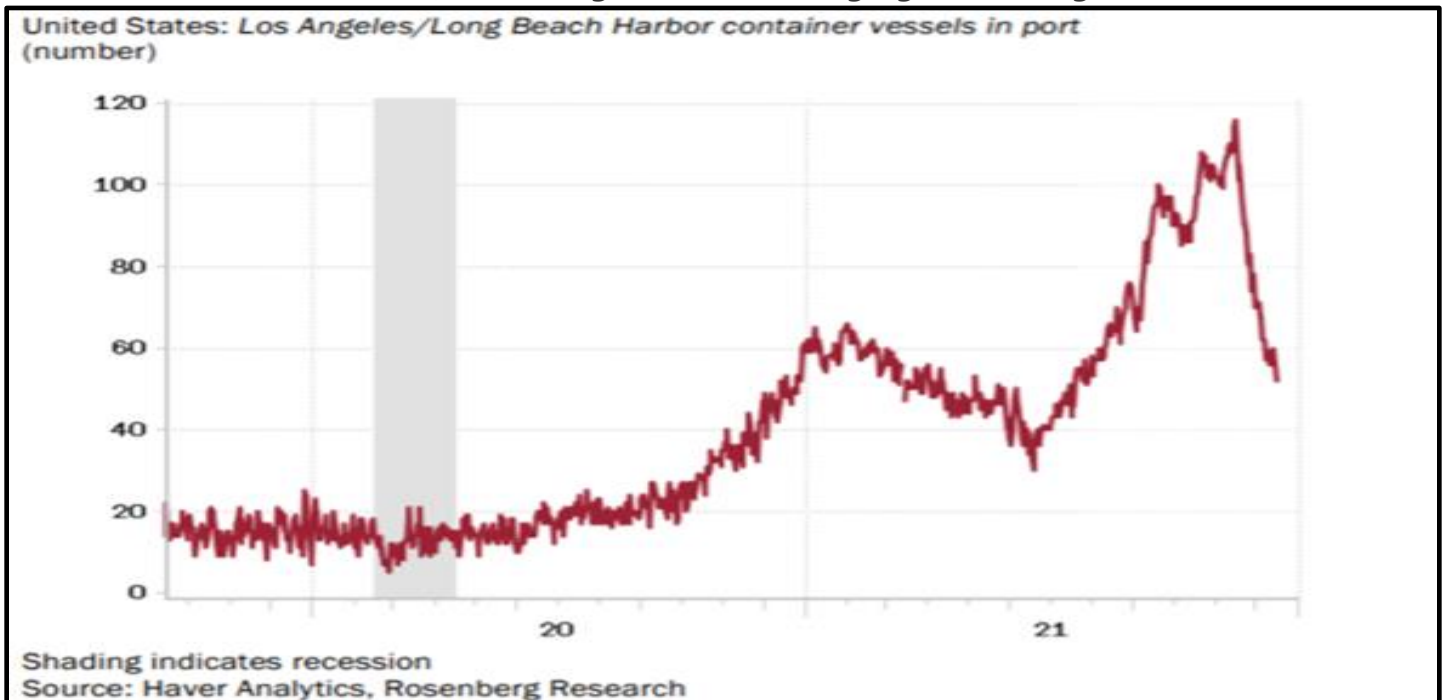


Chart 3: Port congestion is showing signs of easing.



We also thought a recent report by the accounting firm KPMG on the used-car market might be of interest.

KPMG wrote:

"A massive demand/supply gap has been disrupting global auto markets for the past year. The media are reporting exorbitant prices U.S. car dealers are getting, especially for used cars: the Bureau of Labor Statistics used-car CPI jumped more than 40% from December 2019 to October 2021. Car prices are a major contributor to the biggest surge in inflation in the U.S. in three decades."

"History tells us the current frenzy in the used-car market will come to an end. [Computer] chip suppliers will catch up with demand, supply chains will unclog, and the massive auto manufacturing machine will shift back into gear. When that happens, used-car prices could collapse."⁴

Economist Alan Reynolds notes:

"[Recent] Headlines reported an alarming 45% rate of "inflation" in used-car prices, as if it was part of a sustainable trend. At that pace, the used-cars market would become more valuable than new cars by June 2022—an impossible trajectory."⁵

An article from *The Investors' Business Daily* also reported on this dynamic within recent CPI releases:

"Prices for durable goods, such as autos, appliances and computers have valuated 14.3% over the past year. That alone added 1.7 percentage points to the [overall] CPI rate."⁶

⁴ "Used car prices could crash—will they?", KPMG, 2021

⁵ "Inflation in oil prices will soon slow to zero", Alan Reynolds, AIER, January 11, 2022

⁶ "Impact of Auto, Goods Prices", *Investors' Business Daily*, November 29, 2021

Inflation may remain above the Fed's 2% goal. Some economists are speculating the Fed will move their inflation goalposts to 3%. They may.

But some relief from supply chain price pressures, and an economy that is not structurally inflationary, should allow the Fed FUD that's accumulating to simmer down over the course of the next few quarters.

Slow real (after inflation) growth dynamics

In addition to the slow population growth trends that we discussed earlier, there are other factors that likely will weigh on the pace of the economic upturn.

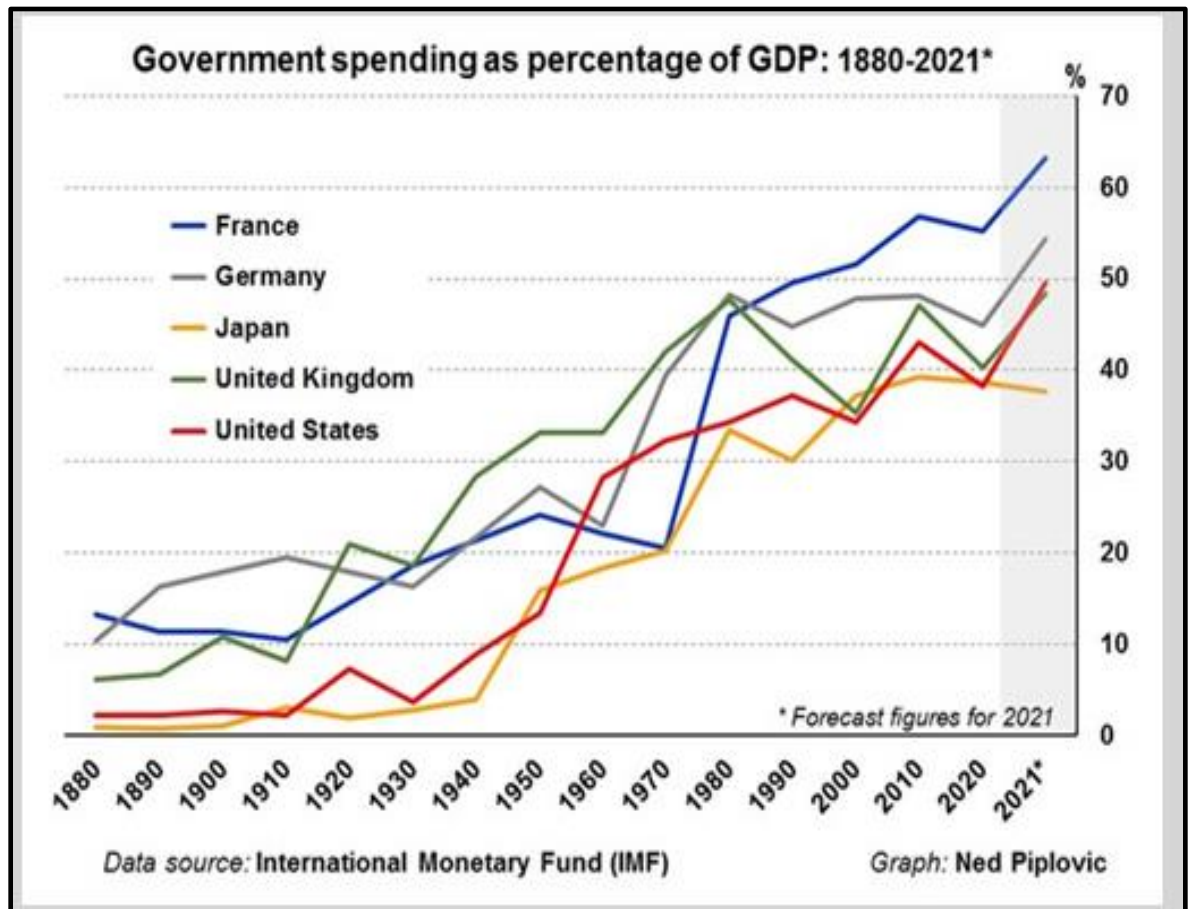
We are optimistic that innovation in the U.S. is alive and well. We hear about it on every company conference call in which we participate (multiple dozens each quarter). This bodes well for private sector productivity growth, real (after-inflation) economic growth and the general standard of living.

However, we expect the continued expansion of the government into economic activities will be a wet blanket on overall growth. Chart 4 reflects that the trend towards "big and bigger" government is not just a U.S. phenomenon.

Chart 4: Bigger government is a wet blanket on productivity and economic growth.
(GDP=Gross National Product)

Economist Mark Skousen—author of several *first principles* economic books—notes: "Empirical studies have shown an inverse relationship between the size of the government and economic growth". In other words, the bigger the government, the slower is economic growth.

The U.S. economy is a mixed economy; resource allocation occurs by both the private sector and government.



Within the private sector, resource allocation occurs primarily through mutually beneficial trade. Dynamic adjustments guided by competitive pressures and feedback loops provide important signals (profits and losses) that drive adaptation characterize private sector commerce.

By design, government economic resources are allocated in a very different manner. Competition and feedback loops generally are not what guides the allocation process. Whether one thinks this is a good or bad thing is certainly not for us to say.

But, *first principles* indicate that as more of an economy's resource allocation decisions are made through less-efficient government "top down" processes, slower productivity growth is typically the result. And recall, productivity growth is what ultimately drives the standard of living higher over time.

"Macroeconomics, despite the thousands of highly intelligent people over centuries who have tried to figure it out, remains, to an uncomfortable degree, a black box. The ways that millions of people bounce off one another — buying and selling, lending, and borrowing, intersecting with governments and central banks and businesses and everything else around us — amount to a system so complex that no human fully comprehends it."

Neil Irwin, Senior Economics Correspondent, *New York Times*, October 1, 2021

A wet blanket impact on economic growth may not seem to matter all that much in the short run. However, like Housel's observation that *long-term knowledge* tends to compound over time, the wet blanket impact compounds over time.

An economy growing at 3% means that the standard of living doubles in about 24 years. A 2% growth rate extends the time until doubling to 36 years. We submit that the 1% difference in growth is 12 years of slower standard of living progress is not an insignificant period in peoples' life spans.

So, where does all this take us investment-wise?

Investment Strategy

Bonds: With U.S. Treasury yields well below 2021's inflation, the bond market appears to be reflecting the expectation that current inflationary pressures will not become entrenched.

Bond prices would likely "take it on the chin" if higher rates of inflation prove to be a long-lasting problem and bond yields are forced higher. (For bonds trading in the marketplace, higher bond yields means lower bond prices.)

Our analysis has suggested for some time that bonds generally have a poor risk/reward profile—even if inflation remains at or below the Fed's target rate of 2%.

As a result, we continue to maintain a "defensive" structure in our bond investments. Interest rate risk exposure within bond holdings remains very modest. Higher bond yields would be viewed as potential opportunity.

Stocks: Over time, we believe one of the most enduring *first principles* of investing relationships is the link between a stock price and the earnings power of the underlying business. Stock prices follow the earnings prospects of a business.

The role of the stock market is to allocate capital to its “highest and best uses”.

More simply: over time a business with strong earnings growth becomes worth more. The stock of a struggling company, in contrast, typically struggles as an investment.

Companies compete for customers. Strong earnings growth is the result of providing goods and services that please customers by making their lives better and easier by helping solve some customer problem(s).

These aspects endure whether a low or higher inflation environment exists. In the latter case, our research of past episodes of escalating rates of inflation suggests that ownership of businesses that can consistently generate earnings growth in their businesses, above the rate of inflation, prove to be very rewarding investments.

As one investment manager put it:

“...there is one truism that will always protect your assets against inflation—own things that provide value to humans. If you own things other people will want, no matter what is happening in the world, then your purchasing power is likely to remain intact.”⁷

The businesses we own include many that provide productivity enhancing tools to other businesses. These tools are, in many cases, *essential* to their customers’ businesses.

Rising inflation puts additional burdens on firms to run as efficiently and productively as possible to counter rising labor and other input costs. We believe demand for productivity tools would be sustained and plausibly could increase in such an environment. Expanding addressable markets will help power the earnings growth of our portfolio companies.

Furthermore, if inflation proves more enduring than we suspect will be the case, Fed policy to combat entrenched inflation would take a toll on the economic expansion. Strong earnings growth would become relatively scarce. Investors in stocks of companies that would be able to sustain earnings growth at a superior pace would likely be well rewarded.

The businesses we own have been selected for the *superiority and durability* of the growth prospects of their underlying businesses. In addition, portfolio companies have *exceptional financial flexibility* which provides them with the ability to further enhance their businesses by being able to take advantage of opportunities that often are created during episodes of intense FUD.

To close, we want to reiterate our belief that innovation and demographics are reshaping the economy’s structure. Some of the implications of these forces are percolating through the *expiring knowledge* of the daily headlines.

But much of the *expiring news* is generating FUD that obscures the important investment implications and opportunities that lie ahead.

Viewing the world and the markets through the lens of *first principles of long-term knowledge* remains the pathway to rewarding returns. It will be a bumpy pathway—always is—but the investment rewards will be worth it.

⁷ “How to Invest Your Money When Inflation is High”, Nick Maggiulli, *ofdollarsanddata.com*, November 11, 2021

Appendix

Stock valuations of superior companies

Some of the investment FUD headlines concern stock valuations. Here's our take on this topic.

The stocks of superior businesses typically trade at premium valuations compared to stock of the "average" company.

As a portfolio, the price of our stocks trade at a premium valuation relative to the stock market as measured by the conventional measuring stick used on Wall Street. (P/E ratio: stock price divided by a company's earnings per share.)

The following chart calculates the size of the premium (blue line) of our holdings over the past few years. There are many dynamics within the chart, but we won't trouble you with the details. (Call us, we're happy to discuss this "stuff" at length!)

The key point we want to convey is that when the blue line is near the top of the chart, the superior company stock premium is larger, and when it's near the bottom, the premium is lower.

At present, the premium is near the bottom of the chart. A compressed premium suggests to us that FUD about valuations of superior businesses' stock prices is already reflected within the stock market.



Source: Intrinsic Research

Established in 1981, *Capital Investment Services of America, Inc.* is a Milwaukee, WI-based independent investment counsel providing custom-tailored portfolio management to individuals, businesses, and charitable institutions.

If you would like to be added to our mailing list, email us at: info@capinv.com or call us at 1-800-345-6462.

For additional information, visit our website at: www.capinv.com

The information contained in this report is based on sources believed to be reliable, but we do not guarantee its accuracy or completeness. The information is published for informational purposes. This paper is not intended to be relied upon as a forecast, research, or investment advice, and is not a recommendation, offer or solicitation to buy or sell any securities, or to adopt any investment strategy. The opinions expressed herein may change as subsequent conditions vary.