# The Economy in Pictures: Recessionary Risks Rising

#### Joe Lavorgna

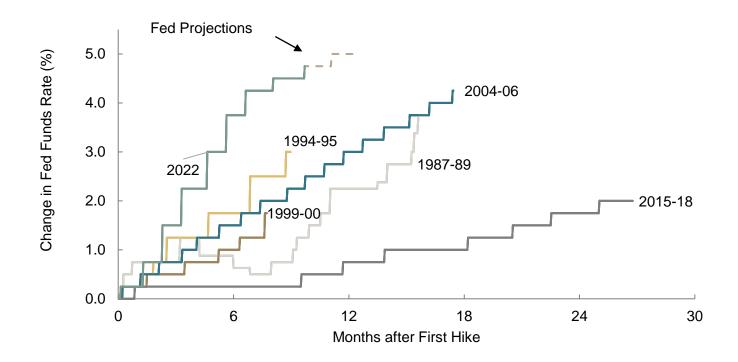
Chief US Economist SMBC Nikko Securities America

(212) 893-1528 joseph.lavorgna@smbcnikko-si.com February 27, 2023



#### A Record Rise in Fed Funds

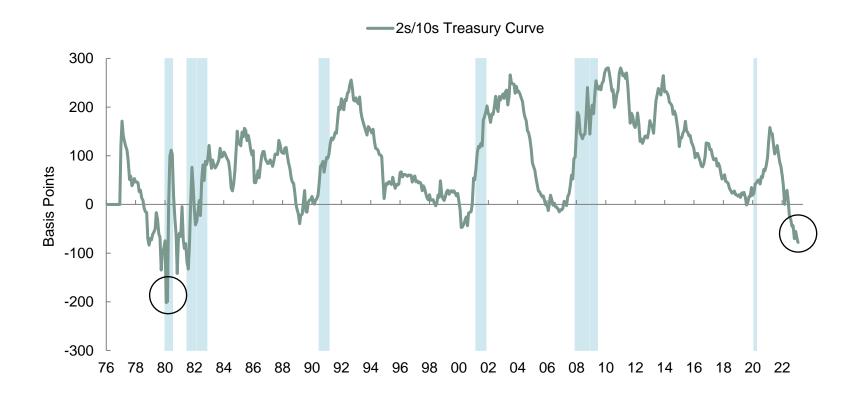
The Fed has raised rates at the fastest pace in more than four decades. The funds rate is in highly restrictive territory. This is evident from the slope of the yield curve and the level of real interest rates.





#### **Historic Curve Inversion**

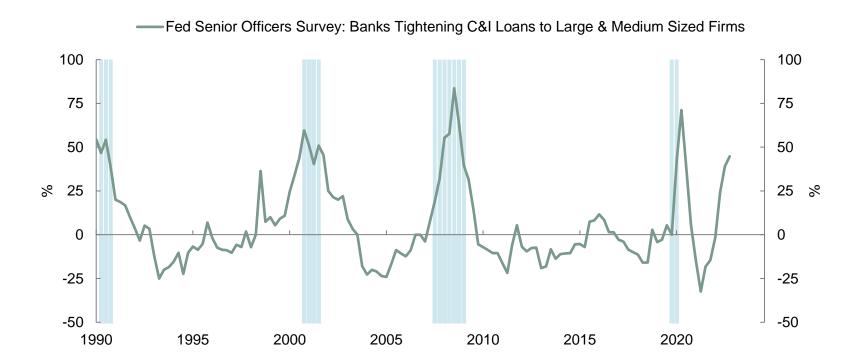
The Treasury yield curve is deeply inverted, especially given the level of interest rates. The bond market is telling us that monetary policy is too restrictive. All past yield curve normalizations have been the result of Fed rate cuts.





#### **Tightening Credit Conditions**

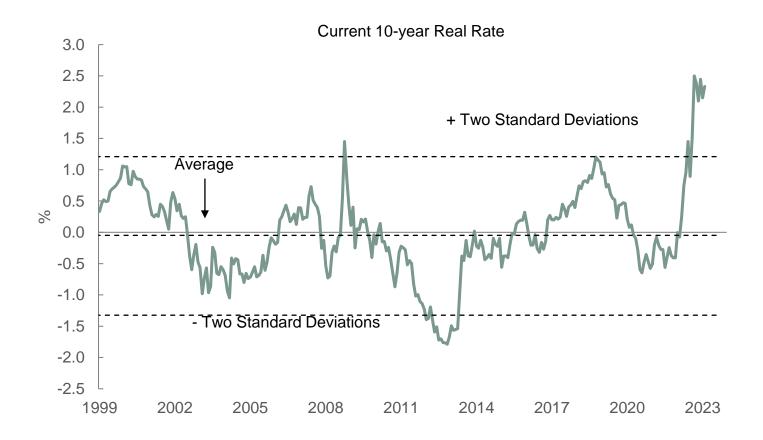
The Fed's Senior Loan Officer Survey has shown a dramatic tightening in lending standards for commercial and industrial loans. These standards have tightened to their highest non-pandemic reading since the 2008-09 financial crisis.





#### **A Surging Real Rate**

According to our calculations, the real rate is well above its equilibrium level. Interest rates are in highly restrictive territory.

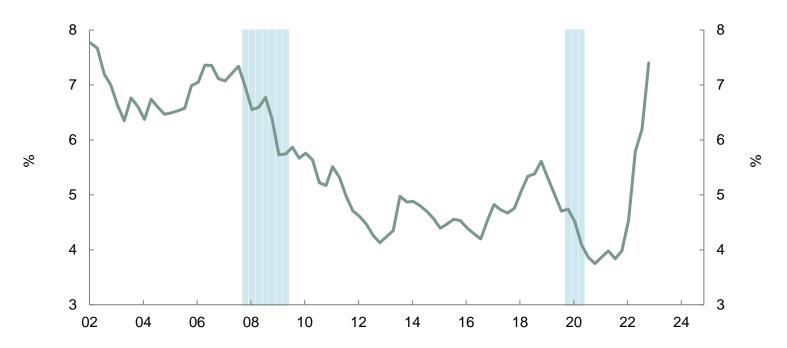




# **Soaring Household Borrowing Costs**

The interest rates that households are paying on mortgages, auto loans, credit cards and personal loans are effectively at their highest rates in 20 years. Borrowing costs are likely to remain elevated until the Fed reverses course.

#### Effective Household Borrowing Rate





#### **Reining in Consumer Lending**

Standards are also tightening for households as commercial banks are showing less willingness to extend consumer credit. This should weigh on consumption going forward.

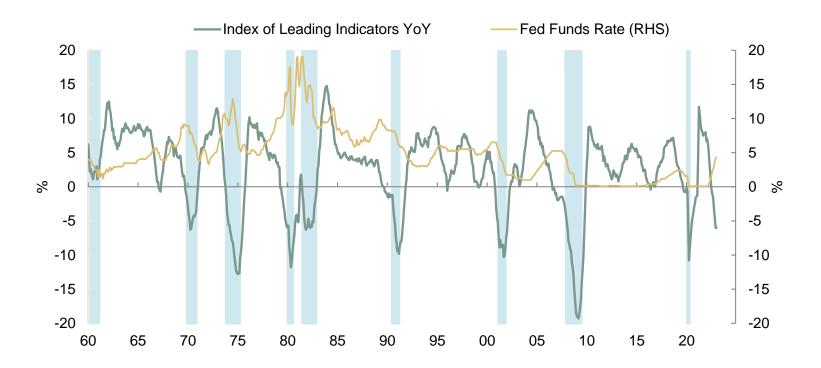






#### **Tightening Into a Downturn**

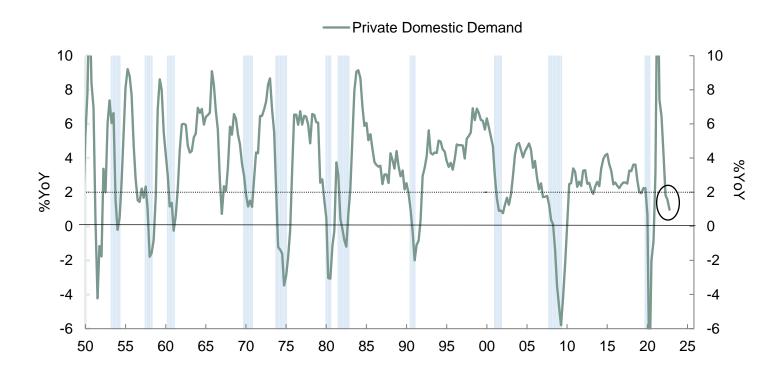
The Index of Leading Economic Indicators has declined sharply over the past year. Historically, the economy has always entered recession when this happened.





#### **Rapidly Slowing Momentum**

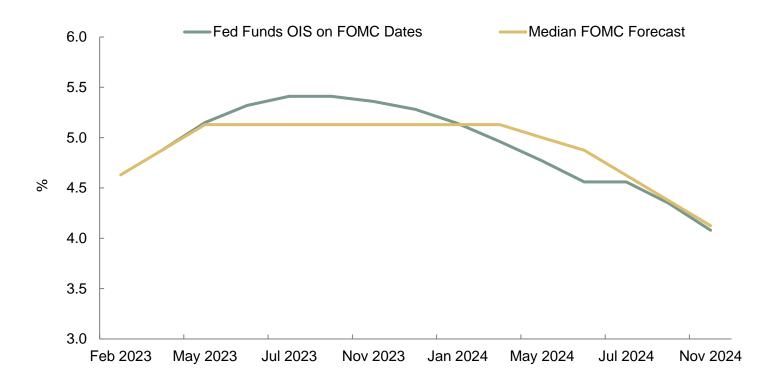
Private domestic demand, defined as real GDP less inventories, net exports and government spending slowed markedly last year. When its growth rate has fallen below 2%, recession has generally ensued.





#### The Bond Market vs. The Fed

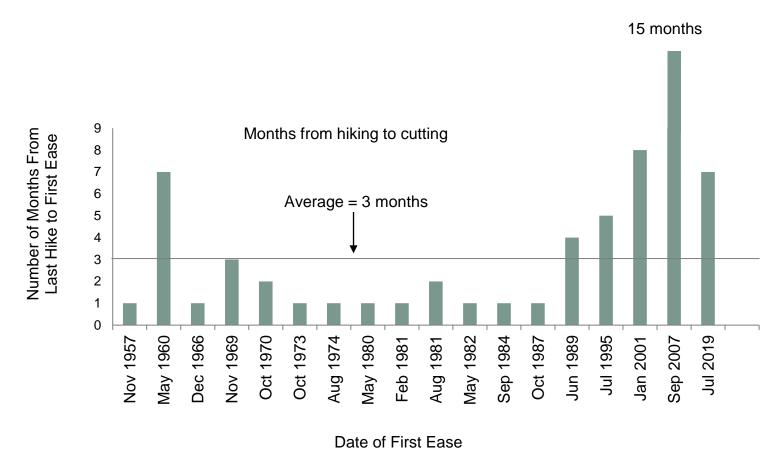
The bond market expects the Fed to begin cutting rates in December. However, the Fed is projecting "higher for longer" with rate cuts not occurring until sometime in 2024.





#### **Timing The Pivot**

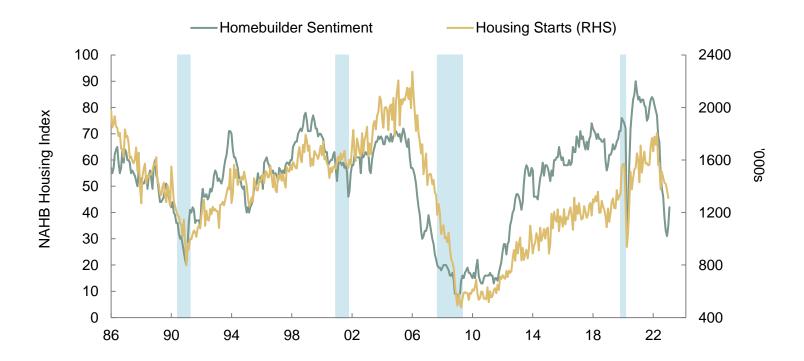
Historically, the amount of time from the last Fed rate hike to the first Fed rate cut has been short. Given how quickly the Fed has raised rates, past may be prologue.





# **Onset of Housing Downturn**

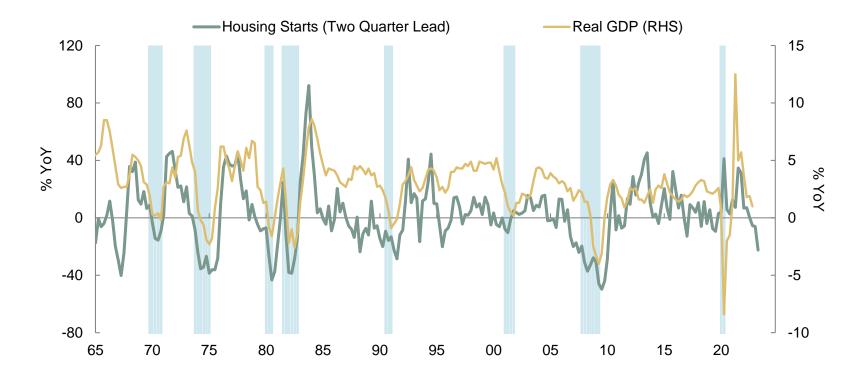
Homebuilders' sentiment has collapsed, and housing starts continue to decline. The housing sector is in recession.





#### **Housing Leads Economy**

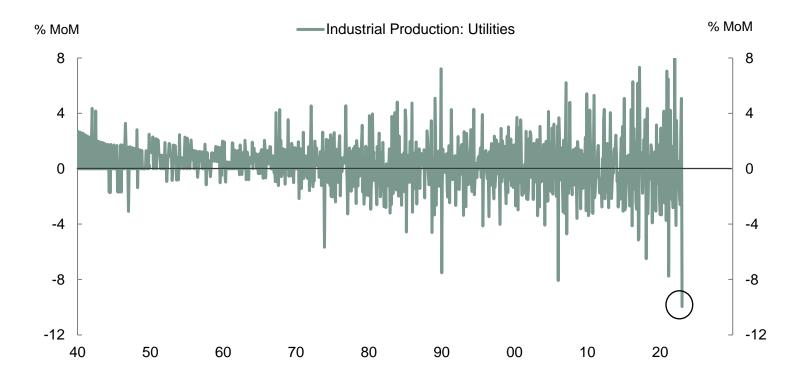
Housing starts lead real GDP growth by a couple of quarters. With starts poised to fall further, overall economic activity should follow.





#### **Unseasonably Warm Weather**

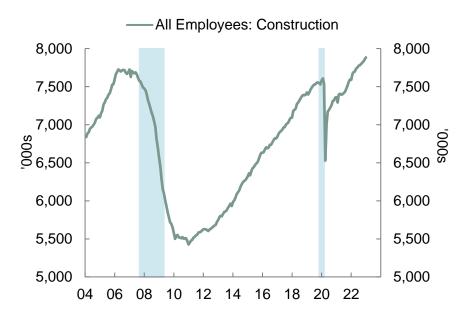
Electricity and natural gas production showed a record decline in January. Since activity is normally weak in the month, the weather may have given the economy a temporary boost.

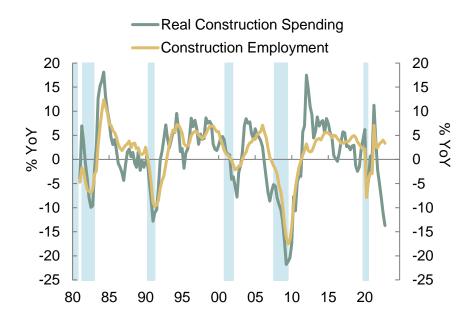




#### **Construction Down, Employment High**

Residential Construction has declined for seven consecutive quarters. However, overall construction employment is close to a record high.

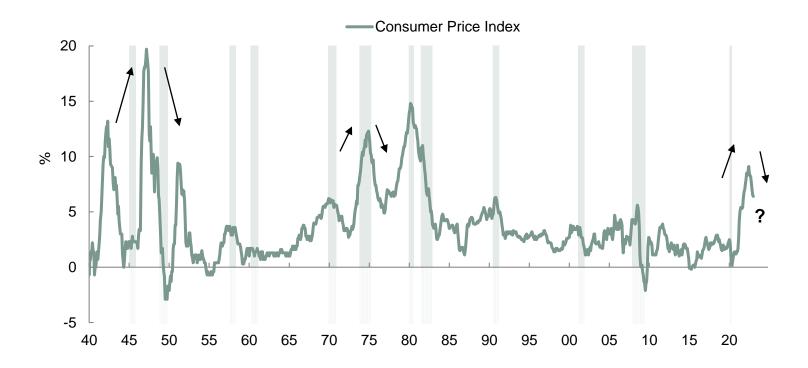






#### What Goes Up Quickly, Comes Down Quickly

Historically, inflation does not plateau at an elevated reading. The latest data suggests the economy is past peak inflation.





## **Symmetry in Prices**

The rise in the inflation rate is often offset by a similar pace of decline. Indeed, the average slopes are a mirror image of one another.

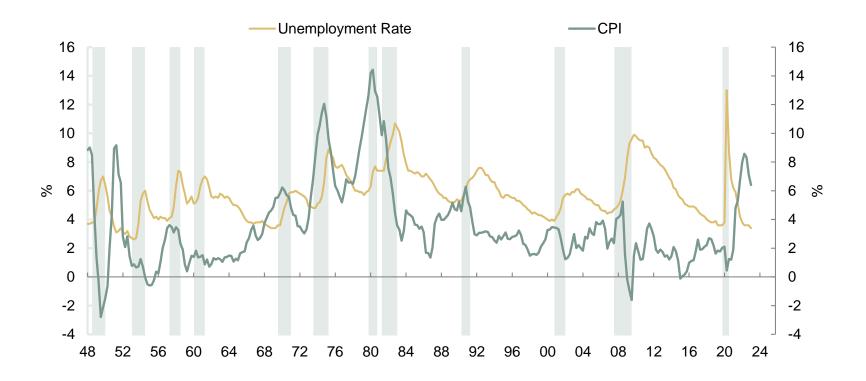
#### **Consumer Price Index**

Inflation Upwing	Slope	Inflation Downwing	Slope
Sep 1940 to May 1942	0.35	May 1942 to May 1944	-0.47
Feb 1946 - Mar 1947	1.61	Mar 1947 to Apr 1949	-0.66
Jul 1949 - Feb 1951	0.58	Feb 1951 to Oct 1954	-0.21
May 1967 - Dec 1969	0.12	Dec 1969 - Jun 1972	-0.12
Jun 1972 to Dec 1974	0.37	Dec 1974 to Nov 1976	-0.31
Nov 1976 to Mar 1980	0.22	Mar 1980 to Jun 1983	-0.31
Jun 1986 to Sep 1990	0.07	Sep 1990 to Jan 1992	-0.25
Aug 2007 to Jul 2008	0.22	July 2008 to Dec 2008 -1.19	
May 2020 to Jun 2022	0.38	Jun 2022 to ?	
Average 1940-2008	0.44	Average 1940-2008	-0.44



# **Leading And Lagging Indicators**

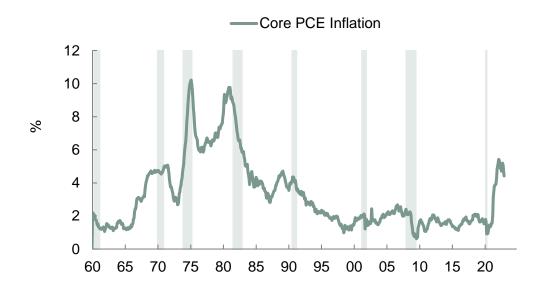
The unemployment rate spikes quickly ahead of recession. Meanwhile, inflation peaks after the recession has begun.





#### **Core PCE and Inflation Cycles**

The core personal consumption expenditures (PCE) deflator is the Fed's preferred inflation series. In the past, the peak to trough decline in core PCE has been nearly 60%.

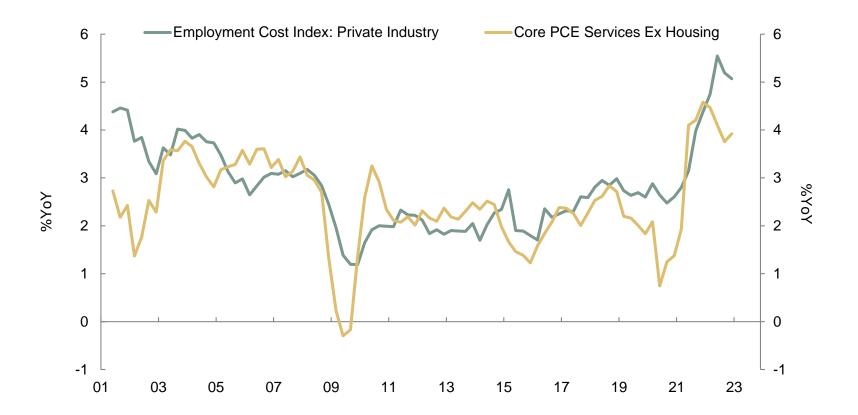


Inflation Cycles					
<u>Peak</u>	<u>Trough</u>	<u>Bps</u>	Percentage		
Feb-60	Nov-61				
2.2	1.1	-110	-50%		
Dec-69	Jan-73				
4.8	2.7	-210	-44%		
Feb-75	Jul-76				
10.2	5.9	-430	-42%		
Jan-81	Mar-87				
9.8	2.8	-700	-71%		
Aug-90	Jun-98				
4.4	1.0	-340	-77%		
Jul-01	Jan-02				
2.1	1.4	-70	-33%		
Dec-07	Jul-09				
2.4	0.6	-180	-75%		
	Average >	-291	-56%		



### The Super Core

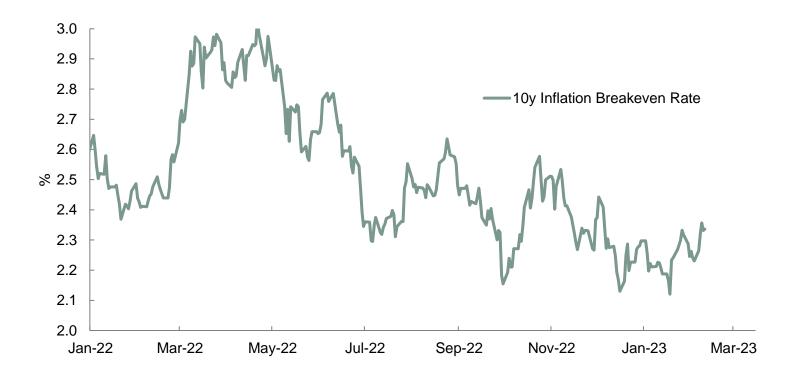
The Fed has recently narrowed its focus to core PCE services excluding housing. This subsection of the core PCE deflator has closely tracked the trend in employment costs.





# **Stable Inflation Expectations**

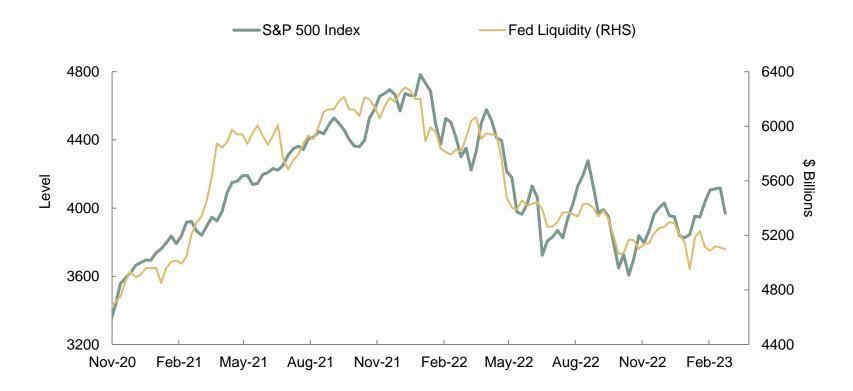
Despite record high inflation readings, the bond market remains sanguine on the inflation outlook. This is confirmed by consumer-based surveys of long-term inflation expectations and the forward inflation swaps market.





#### Fellow Travelers: Fed Liquidity and Stock Prices

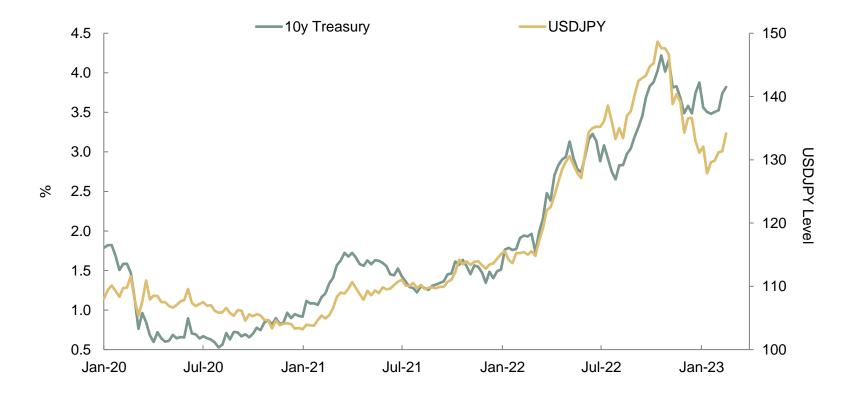
Over the past few years, the equity market has closely tracked Fed-provided liquidity which is defined as the Fed's securities holdings less the Treasury General Account less the Reverse Repo Facility. Hence, quantitative tightening should be an ongoing headwind to stocks.





# **Exogenous Factors**

Over the past couple of years, the 10-year Treasury yield and the Dollar/Yen exchange rate moved in tandem. However, there has been a noticeable breakdown in the relationship as of late.





#### Disclaimer

This presentation is for discussion purposes only and is not intended to be an offer to sell or the solicitation of an offer to buy any securities, or any commitment to underwrite, subscribe for or place any securities, is not an offer or commitment to provide any financing or extension of credit or service, and does not contain any tax or legal advice. This presentation has been prepared by SMBC Group (which may include, collectively or individually, any of the following entities in the Americas Division: Sumitomo Mitsui Banking Corporation ("SMBC"), SMBC Nikko Securities America, Inc. ("SMBC Nikko"), SMBC Nikko Securities Canada, Ltd. ("Nikko Canada"), SMBC Capital Markets, Inc. ("SMBC-CM"), SMBC Leasing and Finance, Inc., JRI America, Inc., and SMBC Rail Services LLC) and is being furnished by SMBC Group solely for use by the client or potential client to whom such materials are directly addressed and delivered. This presentation is confidential, and is the property of SMBC Group subject to copyright. Any reproduction of this presentation, in whole or in part, is prohibited, and you may not release these materials to any person, except to your advisors and professionals to assist you in evaluating these materials, provided that they are obligated, by law or agreement, to keep the presentation confidential. These materials do not constitute research, a recommendation or an offer or solicitation to any person to enter into any transaction or adopt any hedging, trading or investment strategy. Prior to participating in any such transaction, you should consult your own independent, competent, legal, tax, accounting and other professional advisors.

In preparing this presentation, SMBC Group has relied upon information available from third parties, including public sources, and we have assumed, without independent verification, the accuracy and completeness of such information. Specific prices, indices or measures, including ranges, listed in this document were prepared at the time the document was prepared, and are subject to change without notice. SMBC Group makes no representations to and does not warrant this presentation's accuracy or completeness. SMBC Group expressly disclaims any liability for any use of the information set forth herein, including, without limitation, any use of the information set forth herein in the preparation of financial statements or accounting material.

These materials may contain forward looking statements, which may include projections, forecasts, income estimates, yield or return, future performance targets or similar analysis. These forward looking statements are based upon certain assumptions. All forward looking statements are based upon currently available information and SMBC Group is not obligated to provide an update. Actual events may differ from those assumptions. Opinions, projections, price/yield information and estimates are subject to change without notice. There can be no assurance that estimated returns or projections will be realized, that forward looking statements will materialize or that actual results will not be materially lower than those presented. Past performance is not necessarily indicative of future results. Any transactions or strategies addressed may not be suitable for all parties. The value, price or income from transactions or strategies may fall as well as rise. SMBC Group or an affiliate may have a position in any of the underlying instruments, assets, indices or rates mentioned in this document. You should make your own independent judgment or seek independent financial and tax advice with respect to any matter contained herein.

SMBC is subject to Japanese firewall regulations and therefore absent client consent, non-public client information may not be shared with SMBC Nikko Securities Inc.

SMBC Nikko is a US registered broker-dealer of SMBC Group. Nikko Canada is a US and Canadian registered broker-dealer of SMBC Group. SMBC-CM is provisionally registered as a US swap dealer with the CFTC. Capital markets and other investment banking activities for SMBC Group are performed by a combination of SMBC Nikko, Nikko Canada, SMBC Nikko Securities Inc. and SMBC-CM. Lending and other commercial banking activities are performed by SMBC and its banking affiliates. Derivative activities may be performed by SMBC-CM or SMBC. SMBC Group deal team members may also be employees of any of the foregoing entities. SMBC Group does not provide tax advice. Accordingly, any discussion of U.S. tax matters contained herein (including any attachments) is not intended or written to be used, and cannot be used, in connection with the promotion, marketing or recommendation by anyone unaffiliated with SMBC Group or for the purpose of avoiding U.S. tax-related penalties. © 2020 SMBC Group. All rights reserved.

