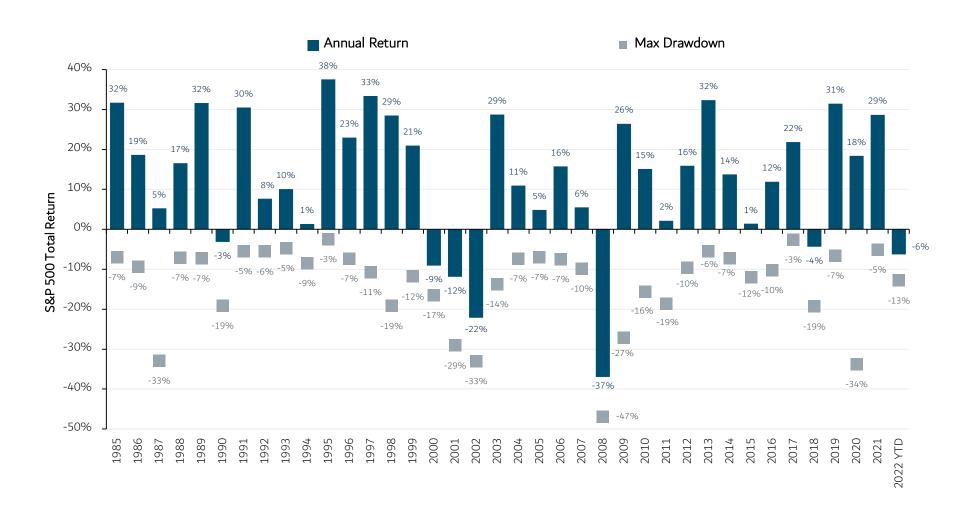


Drawdowns Are Not Unusual

Intra-year drawdowns vs. year-end returns for the S&P 500 Index

Despite an average annual correction of 14%, annual returns have been positive in nearly 84% of the past 37 years





Geopolitical Shocks Tend to be Short-Lived

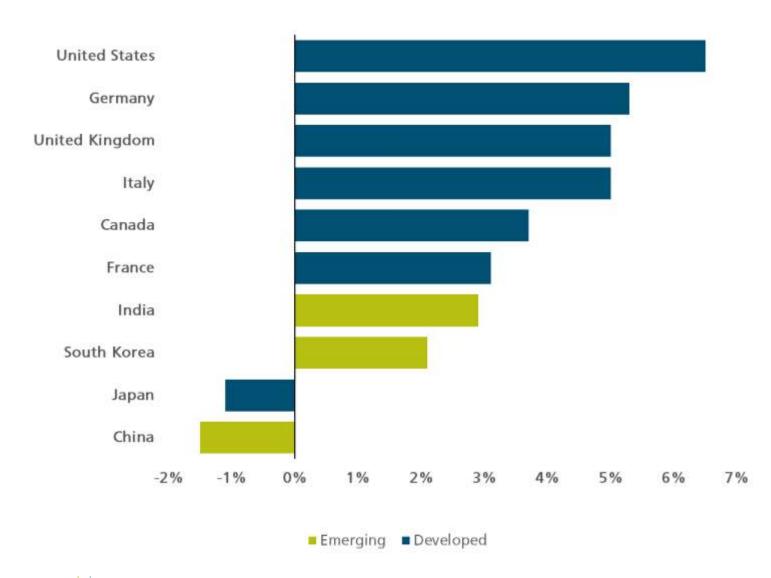
S&P 500 Returns After Historical Geopolitical Shocks

		Duration of	Duration of	Size of	Return	From Bott	om: (%)
Event	Event Date	Selloff (Trading Days)	Recovery (Trading Days)	ælloff (%)	1 Month	6 Months	12 Months
WW-II Germany Annexes Czechoslovakia	Mar-1939	22	108	-20.5	8.3	23.2	18.9
WW-II Germany Attacks France	May-1940	22	745	-25.8	10.9	18 .0	9.2
WW-II Pearl Harbor	Dec-1941	17	201	-10.8	6.5	-1.1	15.3
N. Korea invades S. Korea	Jun-1950	17	43	-12.9	11.2	29.2	31.4
Cuban missile crisis	Oct-1962	7	9	-6.6	15	30	36.5
Authorization of military ops. in Vietnam	Aug-1964	15	36	-3.2	1.7	7.3	5.8
Iranian hostage crisis	Nov-1979	24	51	-10.2	7.7	7.3	29.3
First Gulf War	Jan-1991	6	8	-5.7	15.4	20.7	34.1
9/11 attacks	Sep-2001	6	15	-11.6	11.1	19.4	-12.5
Iraq war	Mar-2003	7	16	-5.3	8	20	32.8
Ukraine Conflict	Mar-2014	6	13	-2	-0.6	7.8	11.5
Airstrike on Syrian Airbase	Apr-2017	32	16	-2.8	2.7	4.2	4.2
Median	,	16	26	-8.4	8.2	19.4	17.1



Global Inflation Well Above Target

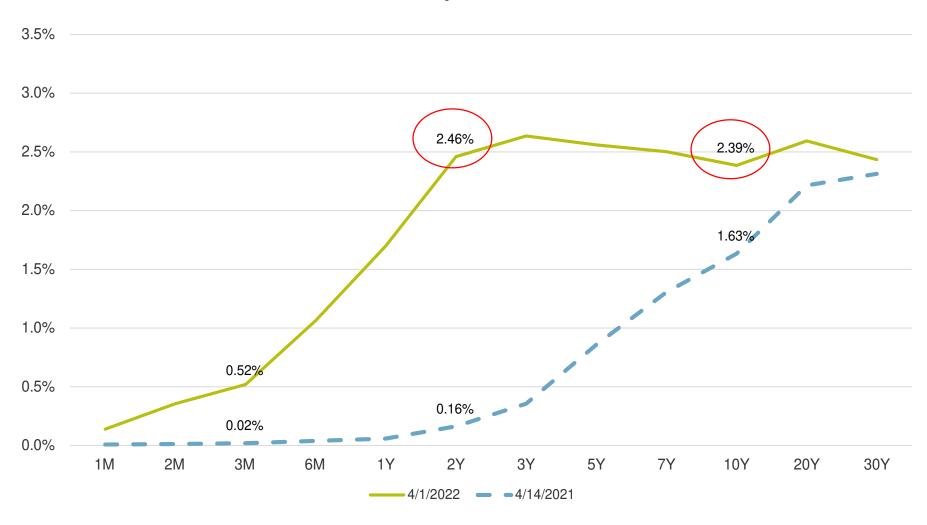
Inflation in Excess of Target (%)





Treasury Yield Curve Inverts in Early April 2022

U.S. Treasury Yield Curve (%)





Source: Bloomberg, as of 4/14/2022

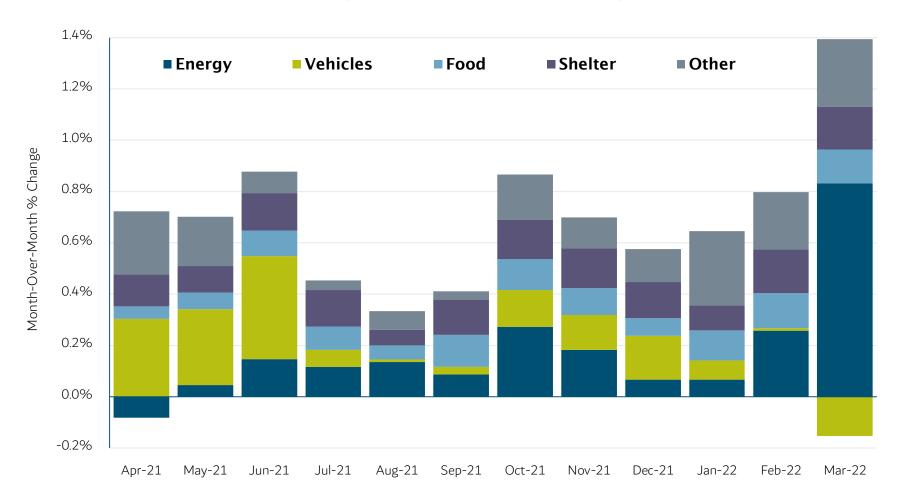
Discussion Points

- Inflation and Interest Rates
 - Inflation peak watch
 - Fed misstep and policy scope
- Inversion of the Yield Curve
 - Typical lead times
 - Alternate measures 2-10 spread or 3m-10y?
 - Low term premium
- Economic and Earnings Growth



Components of Headline CPI Inflation

CPI Components - Contribution by Month

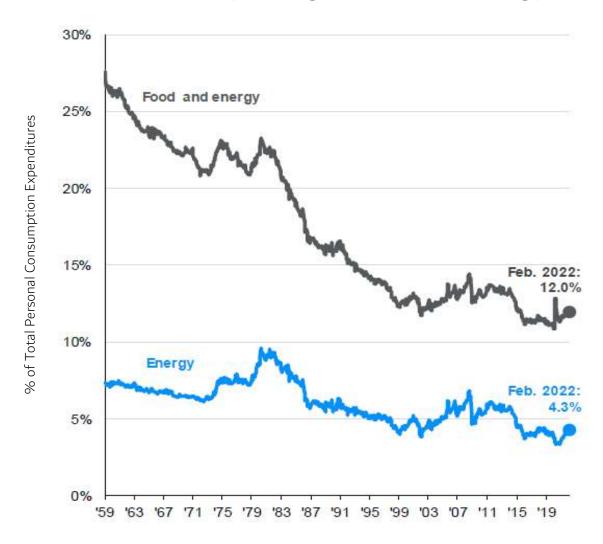


• Energy and vehicle prices have accounted for nearly 45% of CPI inflation over the past 12 months.



Food and Energy are Smaller Components of Spending

U.S. Consumer Spending on Food and Energy (%)

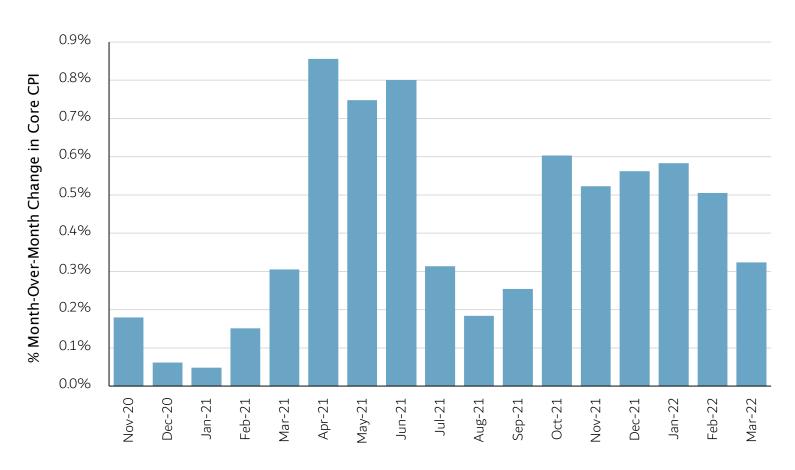


Consumer spending on food and energy is less than half of what it used to be.



Deceleration of Core CPI

Month-Over-Month Change in Core CPI (%)



Core CPI slowed in March 2022 on a month-over-month basis.

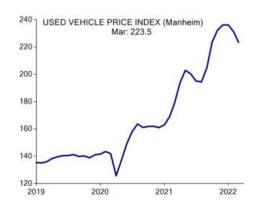


Inflation Peaking?

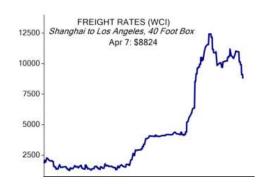
Gasoline



Used Cars



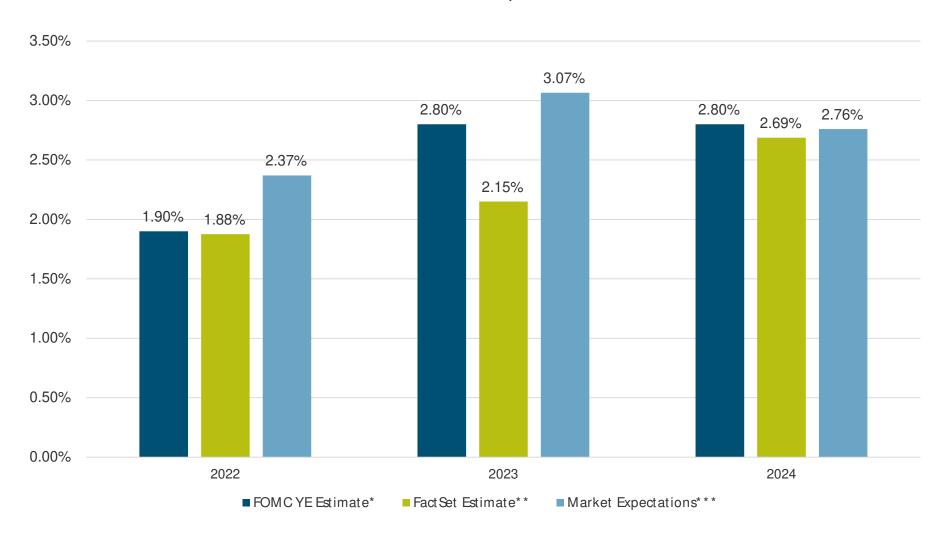
Freight Rates





Inflation and The Fed

Federal Funds Rate Expectations (%)

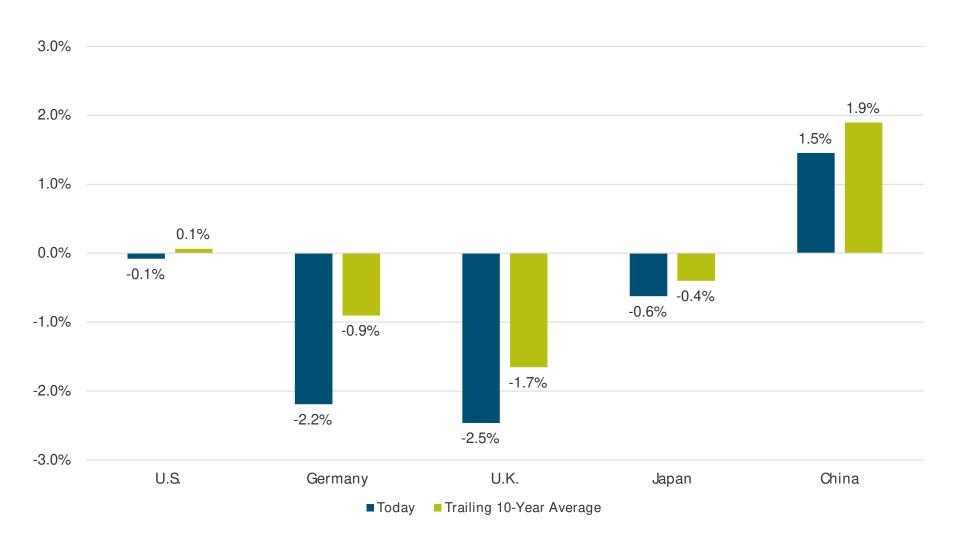


Fed, consensus and market expectations have all moved higher in recent weeks



Financial Conditions Still Stimulative / Neutral

Real 10-Year Government Bond Yields (%)



Real bond yields are rising ... but from historically low levels



Monetary Backdrop

- Negative to neutral real yields
- \$9 trillion balance sheet is equivalent to -200 basis points of Fed funds rate
- More than 50% increase in M2 since pandemic
- Monetary policy works on a lagged basis



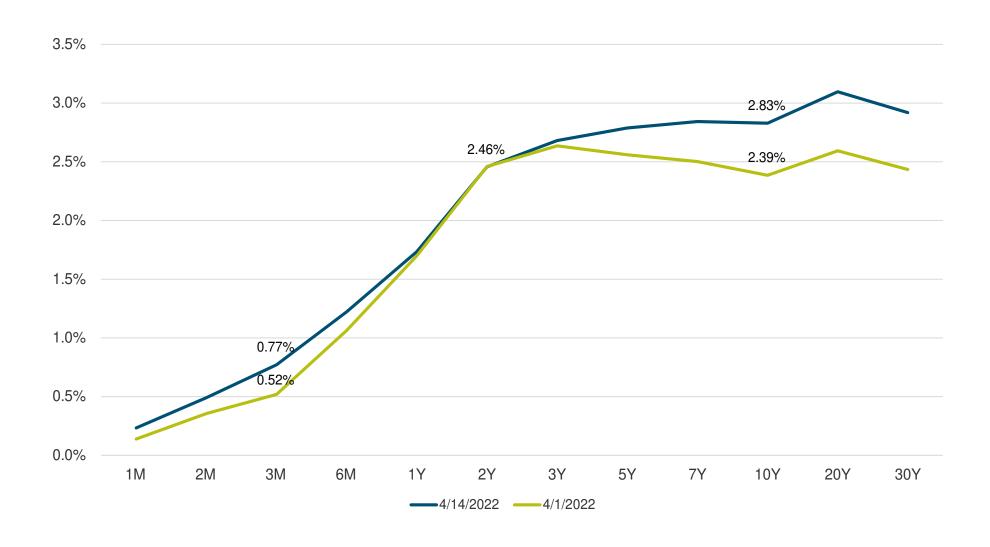
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Yield Curve Inversion - Fleeting ... or Recurring?

U.S. Treasury Yield Curve (%)





Source: Bloomberg, as of 4/14/2022

Average Lead Time from Inversion to Recession

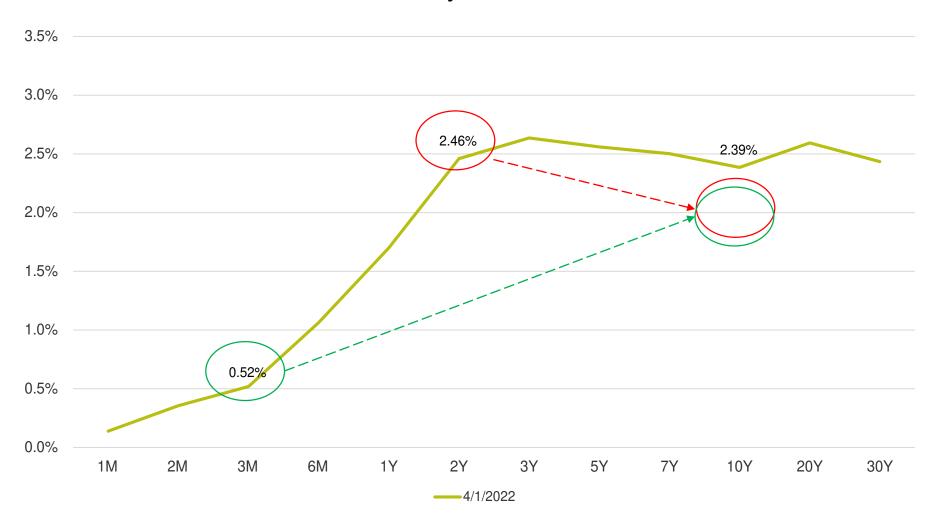
Average Lead Time (months)

Inverted Yield Curve (10-Yr minus 2-Yr) and Recessions								
(1976 - 2022)								
		Inverted Yield		Lead vs.				
Recession	Recession	Curve Before	First Yield Curve	Recession				
Start	End	Recession?	Inversion	Start (Months)				
Feb-80	Jul-80	Yes	Aug-78	18				
Aug-81	Nov-82	Yes	Sep-80	11				
Aug-90	Mar-91	Yes	Dec-88	20				
Apr-01	Nov-01	Yes	May-98	35				
Jan-08	Jun-09	Yes	Dec-05	25				
Mar-20	Apr-20	Yes	Aug-19	7				
?	?	?	Apr-22	?				
	19							



Yield Curve Inversion: 2-10 or 3m-10y?

U.S. Treasury Yield Curve (%)





Source: Bloomberg, as of 4/14/2022

Near-Term Forward Spread

• Implied forward rate on the 3-month T-bill 6 quarters from now

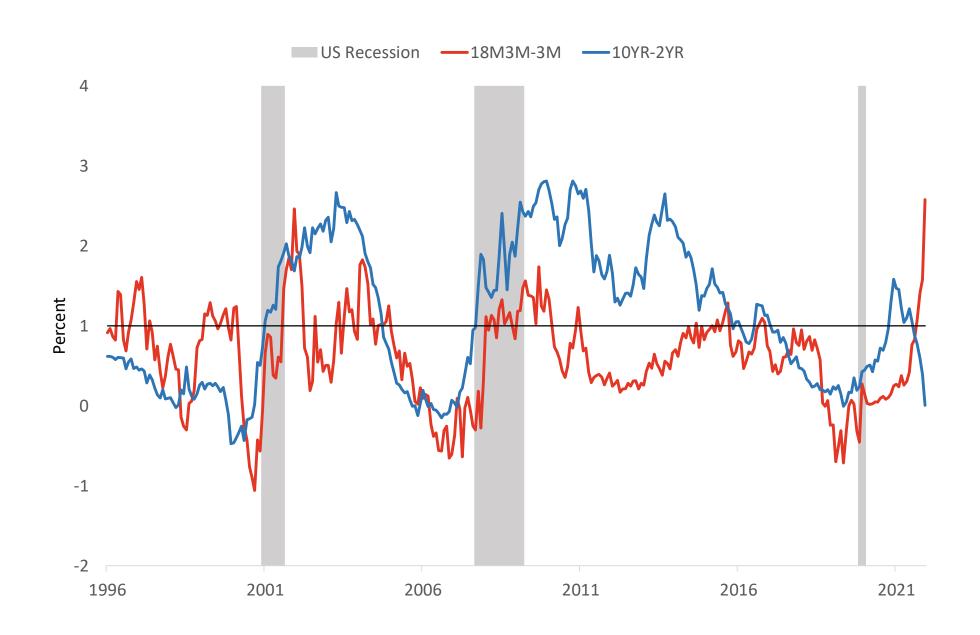
minus (-)

the current yield on the 3-month T-bill

- Market's expectations of near-term monetary policy
- · Leads onset of recession by about 12 months or so



Near-Term Forward Spread vs. 2-10 Yield Spread





Source: Bloomberg. As of 4/14/2022

Term Premium

- Treasury yields are derived from two components
 - o Expectations of the future path of short-term Treasury yields

plus (+)

- o Treasury term premium
- Term premium is the compensation for bearing interest rate risk
- · Term premium is unobservable and needs to be estimated



Secular Decline in the 10-Year Treasury Term Premium

10-year Treasury Term Premium (%)



- The term premium has declined steadily since 1985.
 - o Central bank asset purchases and forward guidance, glut of global savings, foreign investors, disinflationary pre-pandemic pressures, demand for hedging long duration liabilities
- Low term premium makes inversions more likely and less reliable.



Explanations for the Low Term Premium

- Central bank asset purchases
- Glut of global savings
- Interest from foreign investors
- Demand for hedging long duration liabilities
- Disinflationary pre-pandemic pressures and forward guidance



Simulated Frequency of Inversions by Levels of Term Premium

Time Period	Actual Average Term Premium (%)	Fraction of Time Yield Curve is Inverted		
Post-1985	1.62	0.10		
Post-1999	1.02	0.17		
Post-2006	0.73	0.26		
Post-2012	0.16	0.46		



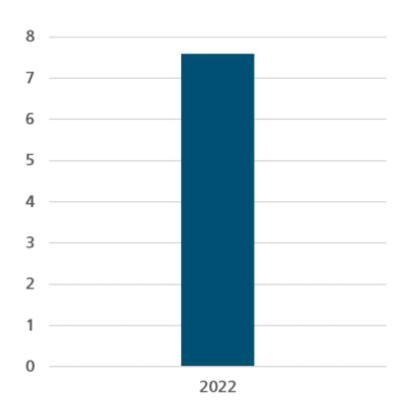
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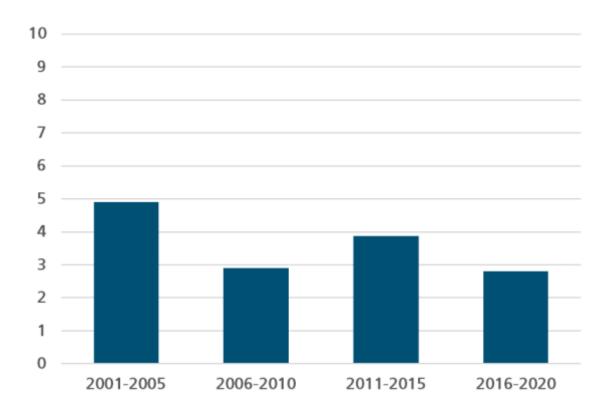
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Nominal Growth is Still Projected to be High in 2022

Expected and Historical Nominal GDP Growth (%)







Drivers of Growth in 2022

Headwinds

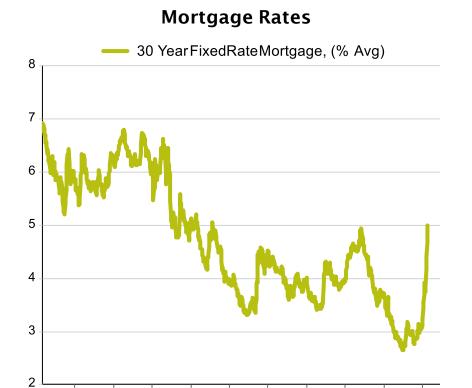
- Inflation
- Housing?

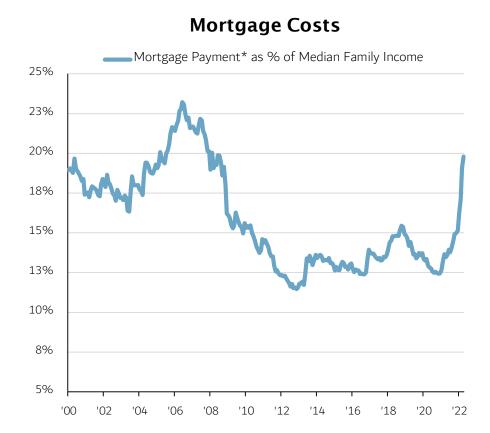
Tailwinds

- Labor market
- Strength of consumer



Housing Headwinds?





Rising mortgage rates and housing prices have pushed mortgage costs to highest level since 2008



'04

'06

'08

'10

'12

'14

'16

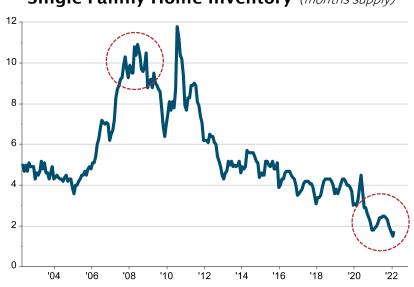
'18

'20

'22

Housing: Not a Repeat of the Financial Crisis

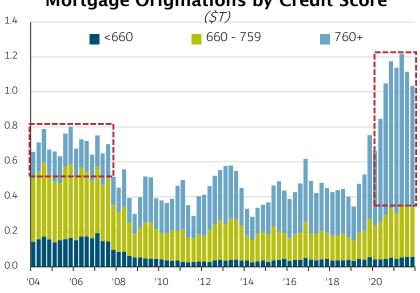
Single-Family Home Inventory (months supply)







Mortgage Originations by Credit Score



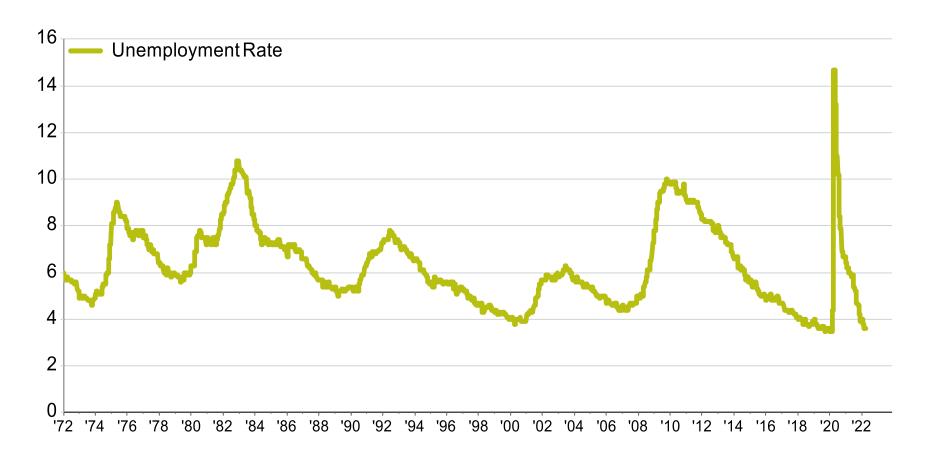
US Household Debt-to-Income Ratio





Robust Jobs Market

Unemployment Rate (%)



Labor market is approaching full employment



Credit Spreads Remain Fairly Tight

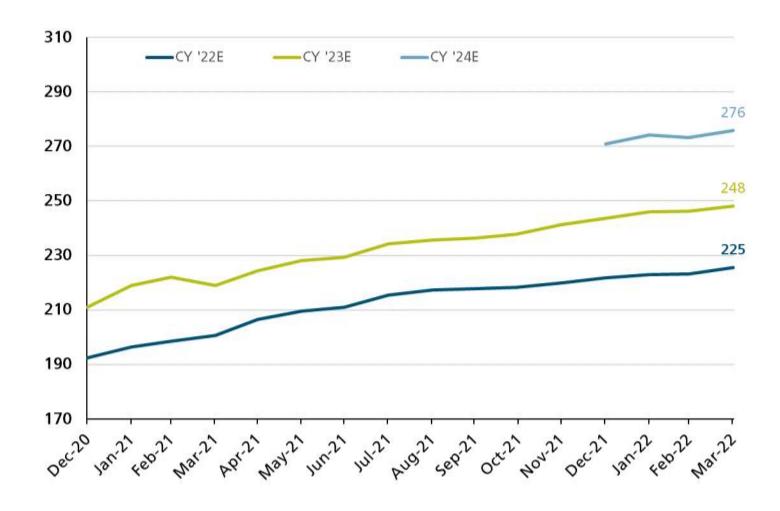
Baa Spreads (%)





Earnings Continue to Grow

S&P 500 Earnings Estimates Over Time





Source: FactSet as of 4/14/2022

- Inflation remains the biggest economic and market risk
- Inflation may peak soon but will remain well above target in 2022 and 2023
- Ukraine war and China covid policy will impede the recovery of supply chains



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- Yield curve indicators may now be a less reliable recessionary signal



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