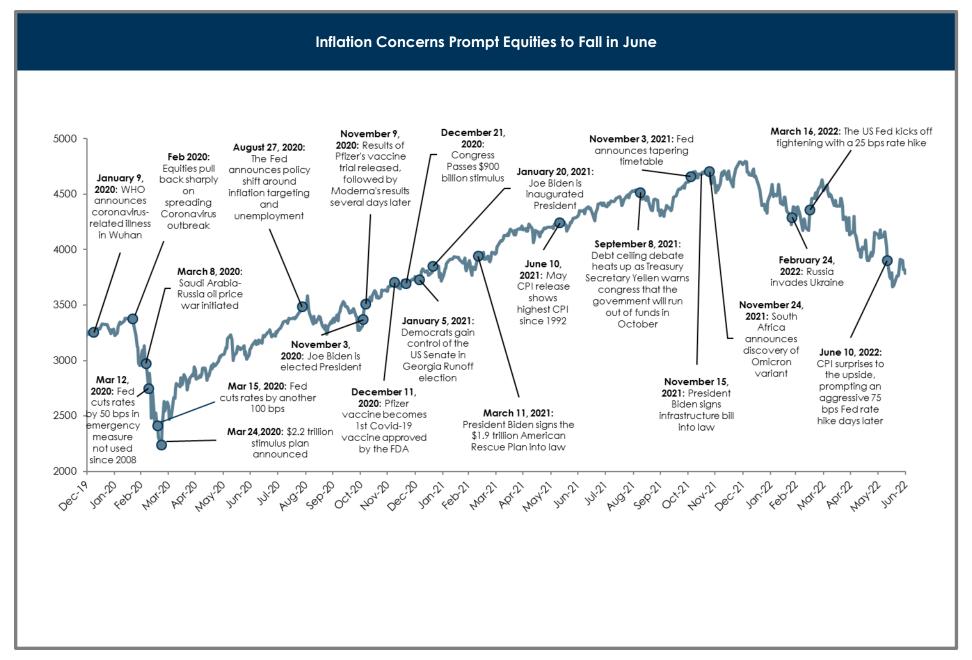
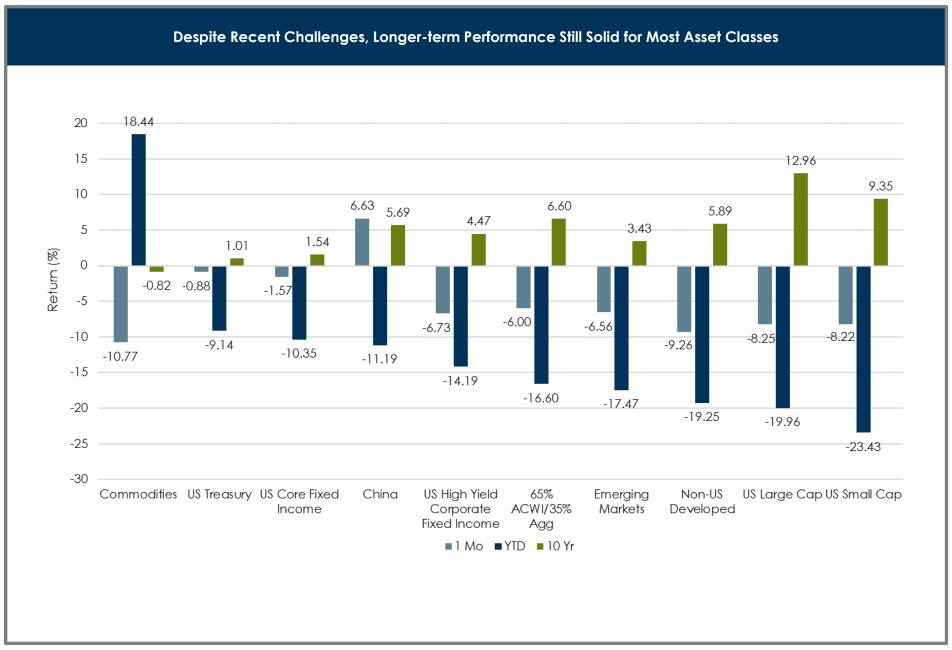
Global Economic Update

3rd Quarter 2022

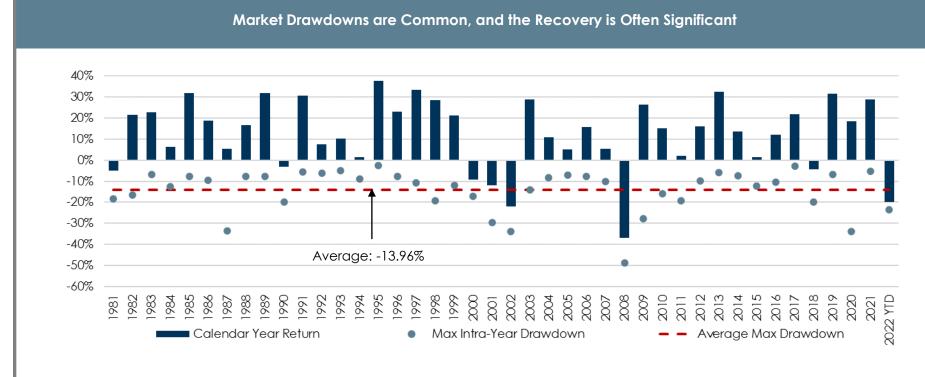
- First half of 2022 was one of the worst drawdowns for a balanced portfolio in decades
- **Economic growth has slowed** and consumer sentiment remains weak
- US GDP declined at a 1.6% annualized rate in Q1 and odds of a near-term recession have risen.
- Fed funds rate could surpass 3.0% by year-end and yield curve continues to flatten
- Despite current high inflation, commodity prices have started to roll over and longer-term deflationary forces remain in place
- Labor market remains tight as households draw on last few years of stimulus and investment savings
- Recent declines in equities and reduced stimulus could bring more people back into the labor force and lead to a moderation in wages
- Higher interest rates and lower stock prices have generally led to improved valuations and future return potential
- Maintaining portfolio diversification across asset classes and disciplined rebalancing remains key to achieving long-term investment goals



Source: ACG Research, Bloomberg (as of June 30, 2022)



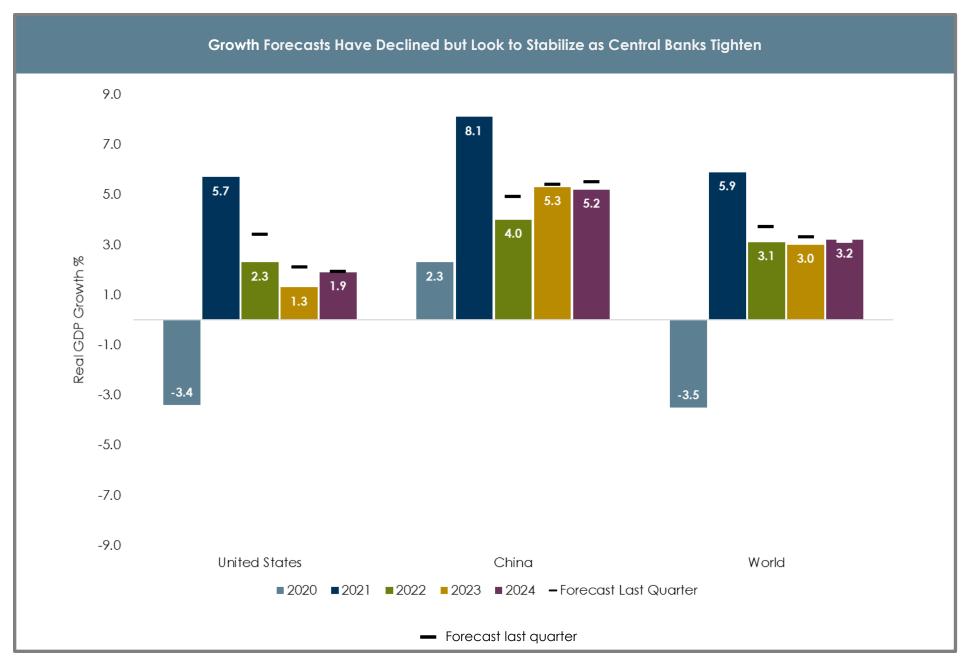
Source: ACG Research, Morningstar (as of June 30, 2022). The following indices used as proxy for asset classes: Russell 2000, Bloomberg Commodity, S&P 500, MSCI EAFE, MSCI Emerging Markets, MSCI China, Bloomberg US Corporate High Yield, Bloomberg US Aggregate, Bloomberg US Treasury



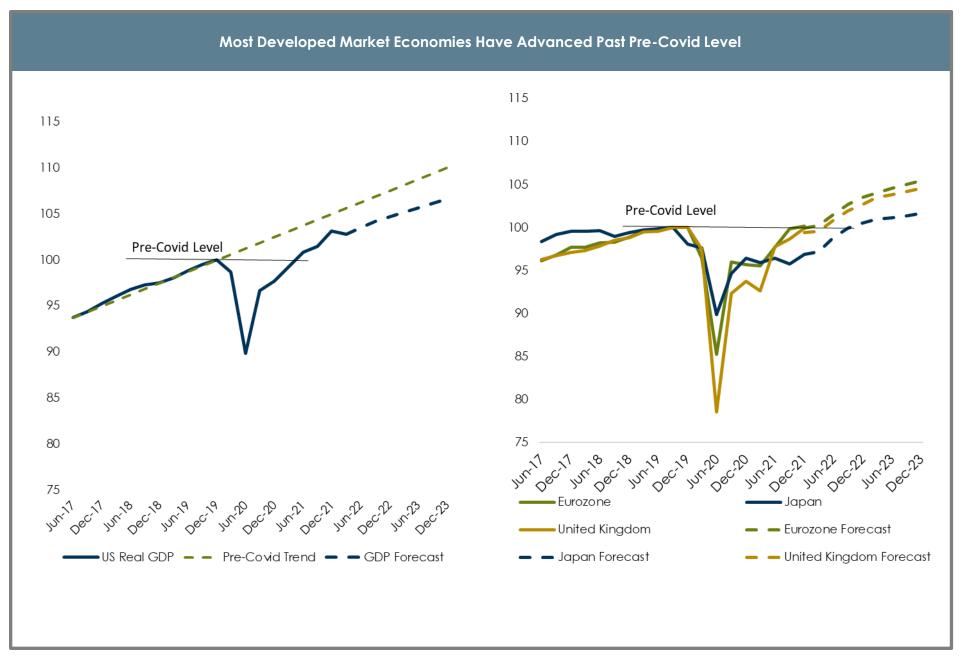
Largest S&P 500 Drawdowns Since 1980 and Next Year's Return (Using Monthly Return Data)

	S&P 500 Drawdown (%)	Length	Recovery	Peak	Valley	12-Month Forward Return (%)
Current _ Period	-50.95	16	37	Oct-07	Feb-09	53.62
	-44.73	25	49	Aug-00	Sep-02	24.40
	-29.58	3	18	Aug-87	Nov-87	23.33
	-19.96	6	N/A	Dec-21	Jun-22	ŝŝŝ
	-19.60	3	4	Dec-19	Mar-20	56.35
	-16.50	20	3	Nov-80	Jul-82	59.26
	-16.26	5	12	Apr-11	Sep-11	30.20
	-15.37	2	3	Jun-98	Aug-98	39.82
	-14.69	5	4	May-90	Oct-90	33.50

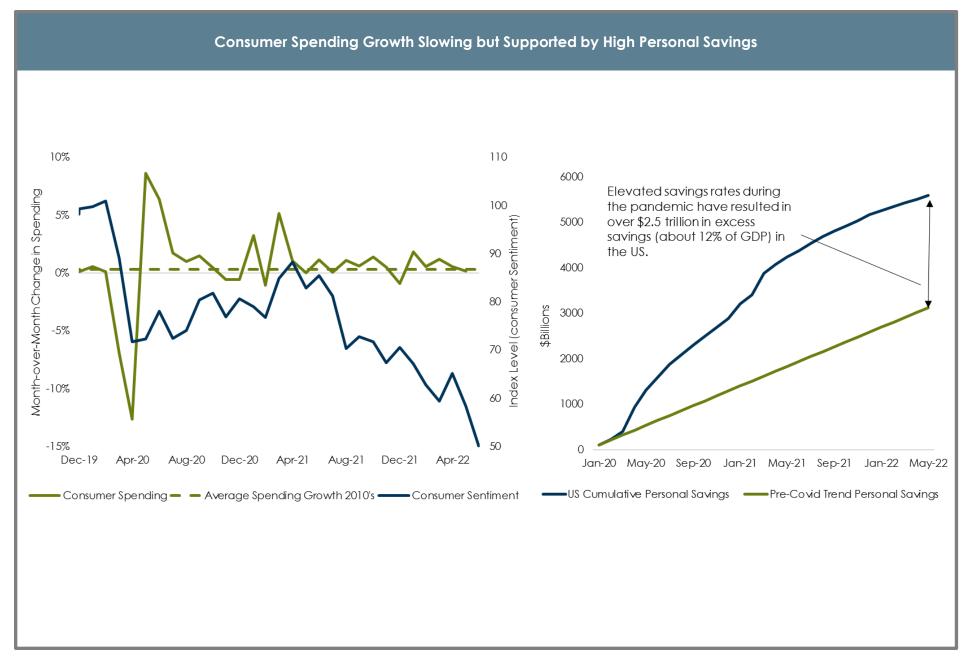
Source: ACG Research, Bloomberg



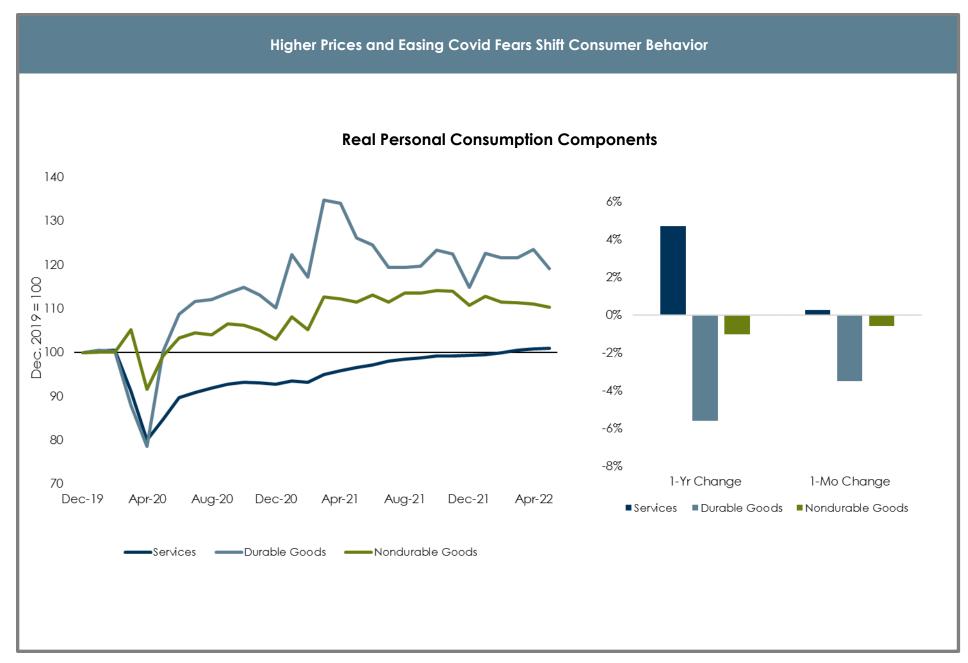
Source: ACG Research, Oxford Economics (as of June 30, 2022)



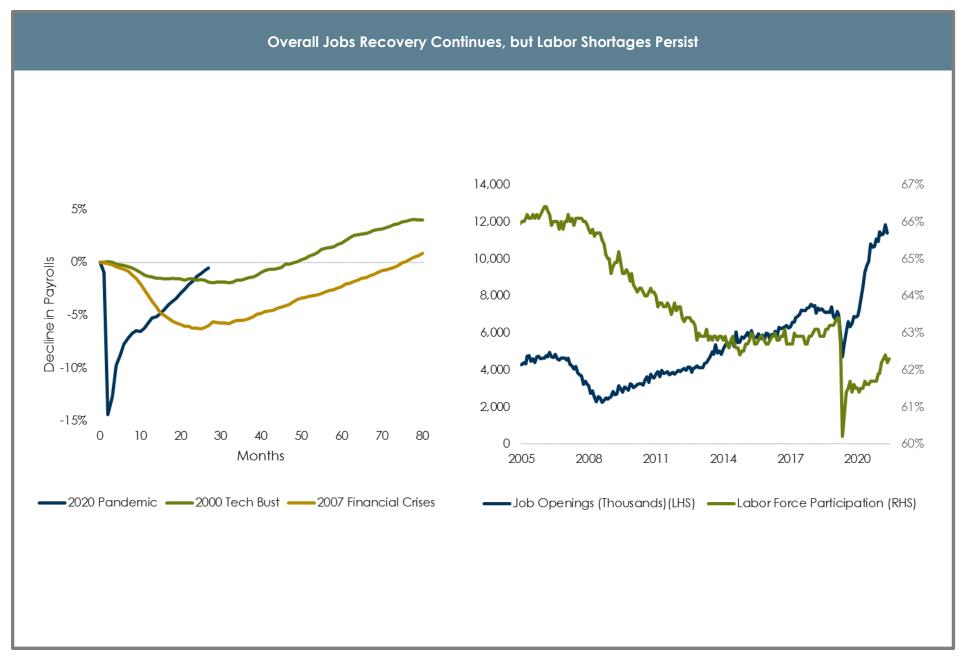
Source: ACG Research, Bloomberg, Oxford Economics (as of March 31, 2022)



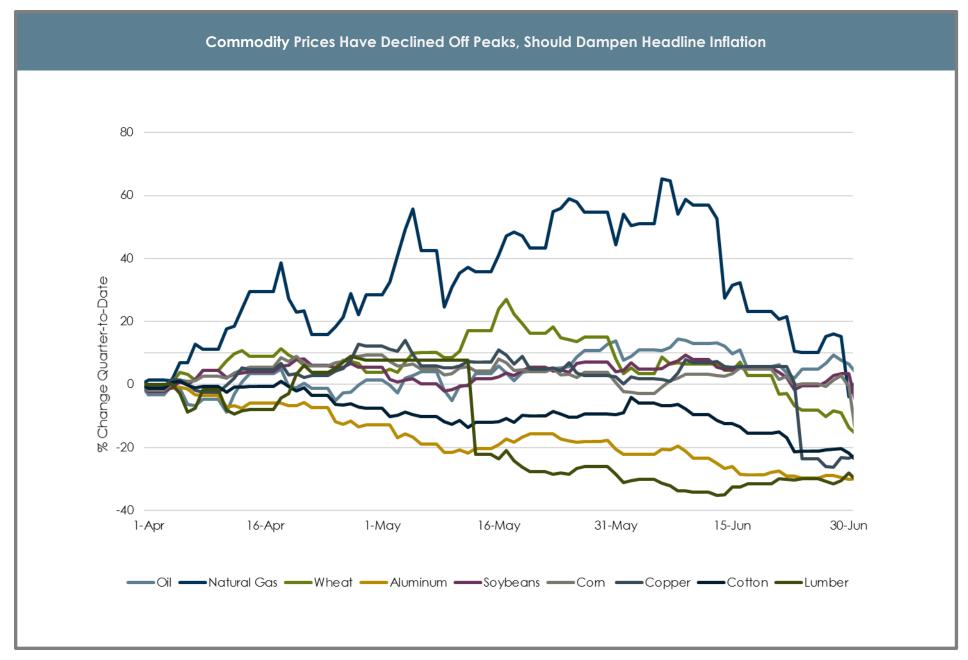
Source: ACG Research, Bloomberg, University of Michigan (as of May 31, 2022)



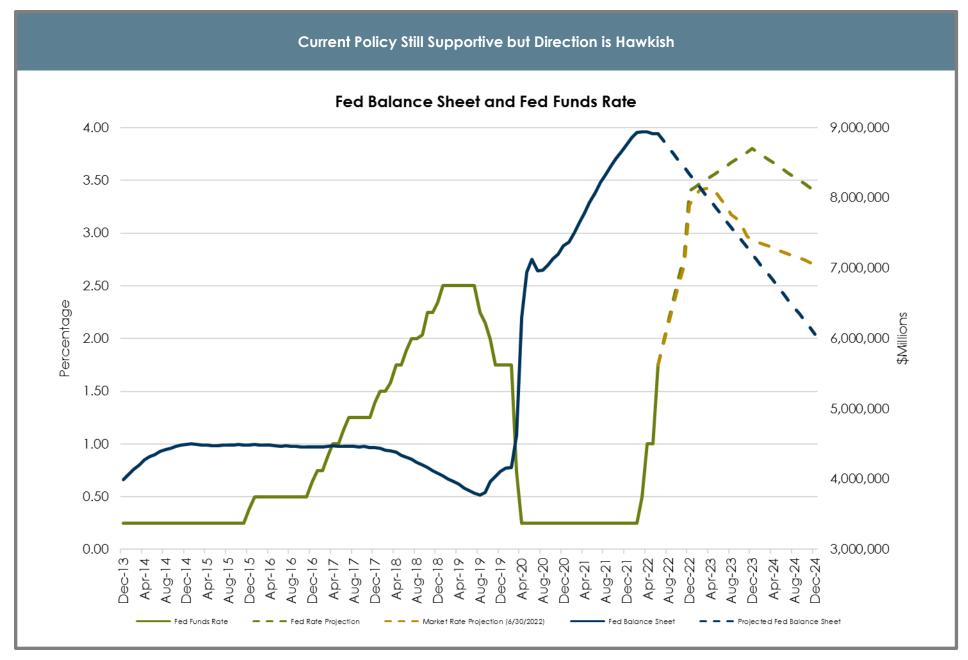
Source: ACG Research, Bloomberg (as of June 30, 2022)



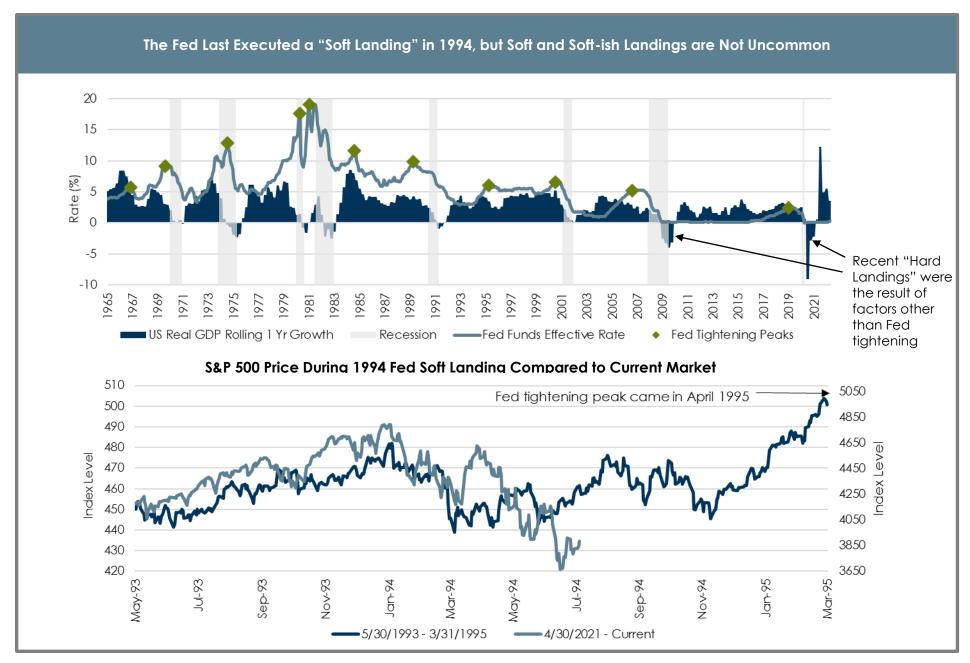
Source: ACG Research, Bloomberg, Bureau of Labor Statistics (as of June 30, 2022)



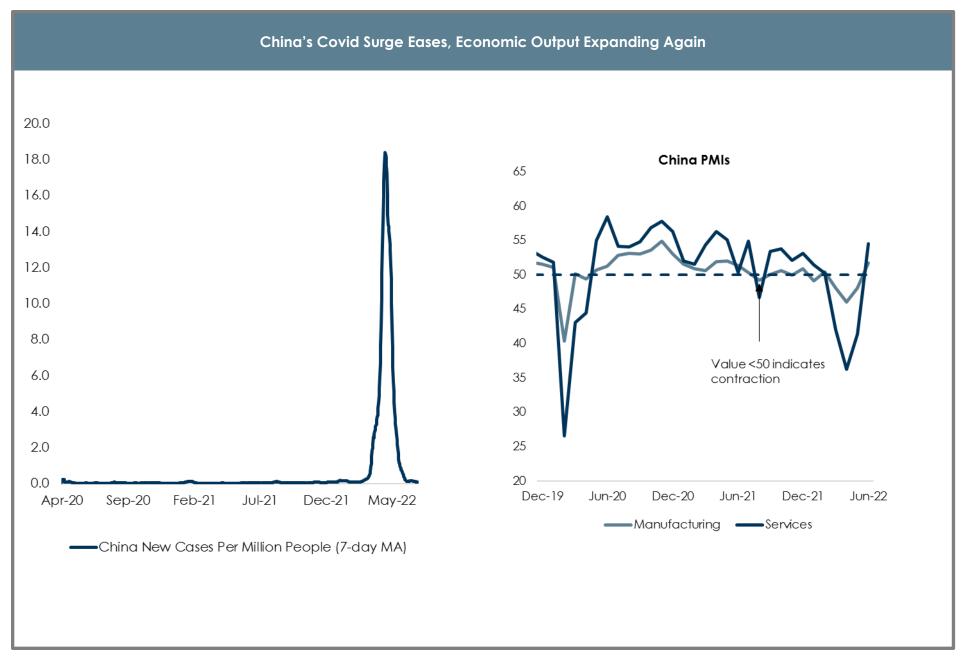
Source: ACG Research, Bloomberg (as of June 30 2022)



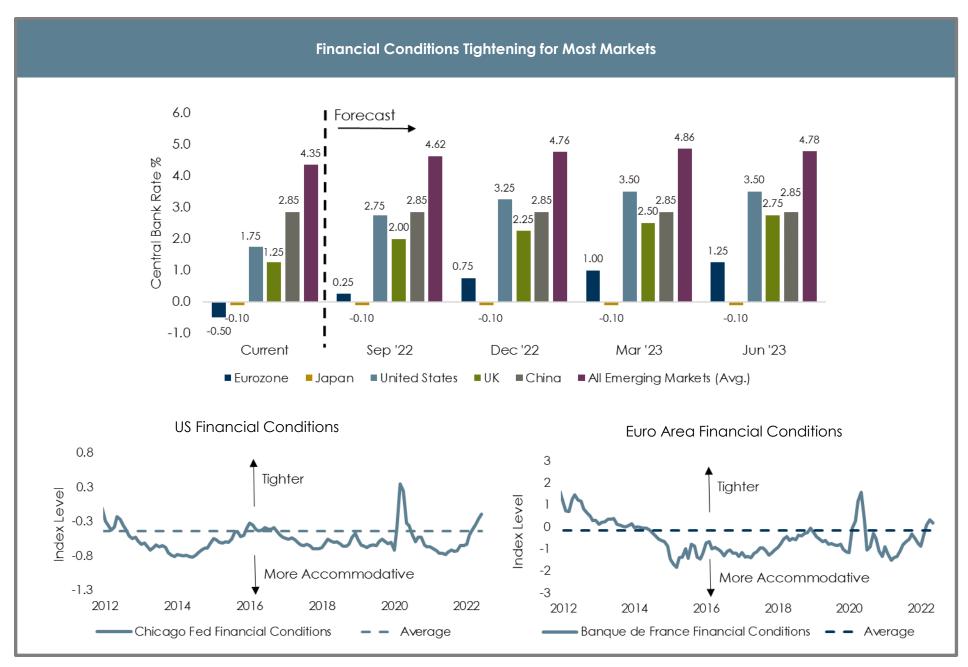
Source: ACG Research, Bloomberg, St. Louis Federal Reserve (as of June 30, 2022). Balance Sheet Projection based on guidance from Fed meeting minutes.



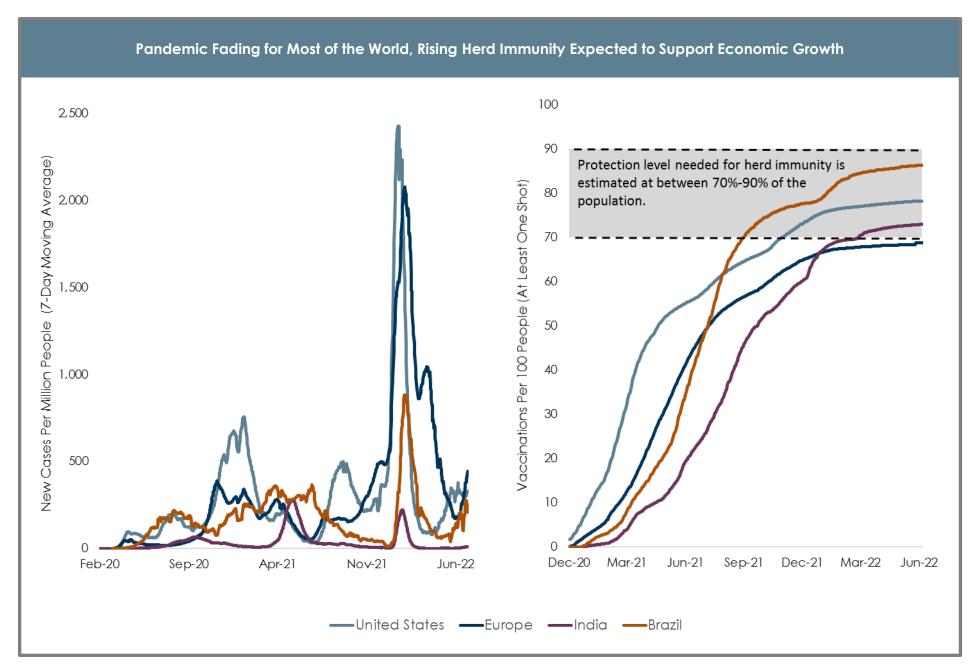
Source: ACG Research, Bloomberg (as of June 30, 2022)



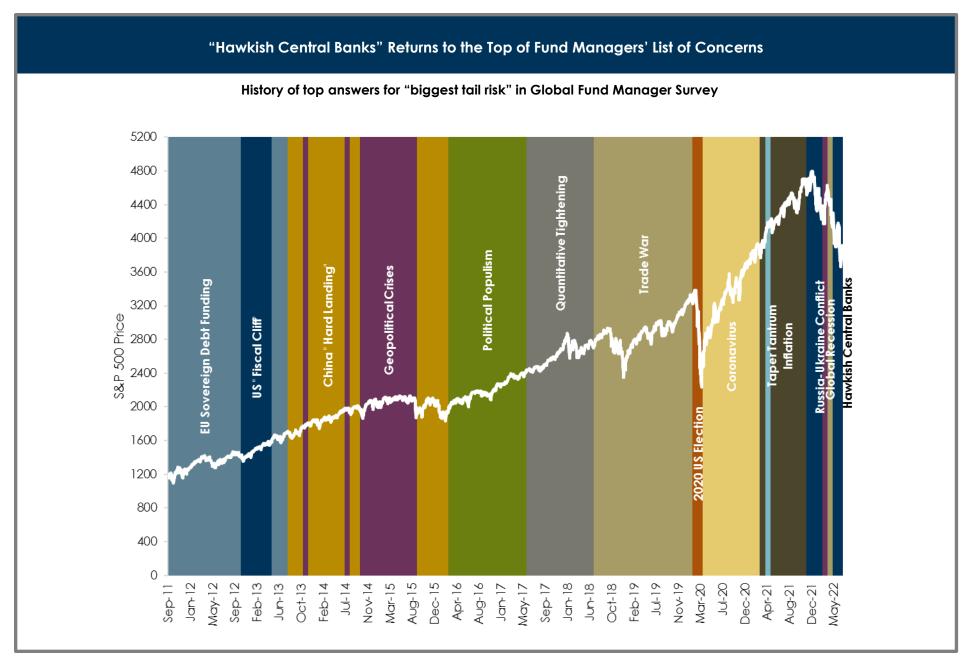
Source: ACG Research, Our World in Data, Bloomberg (as of June 30, 2022)



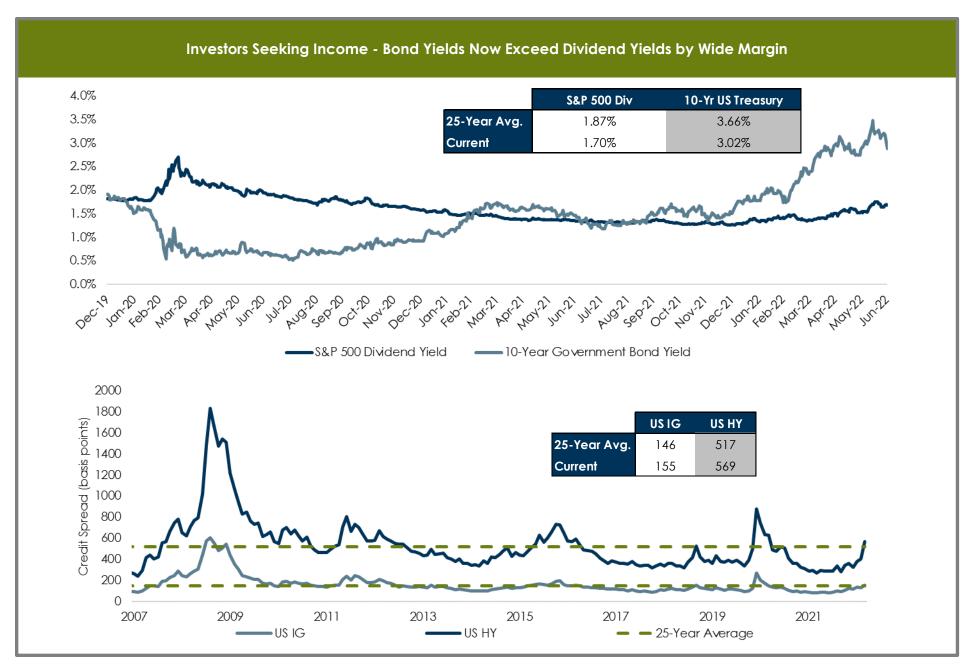
Source: ACG Research, Bloomberg, Federal Reserve, Banque de France, Forecasts from JP Morgan (as of June 30, 2022)



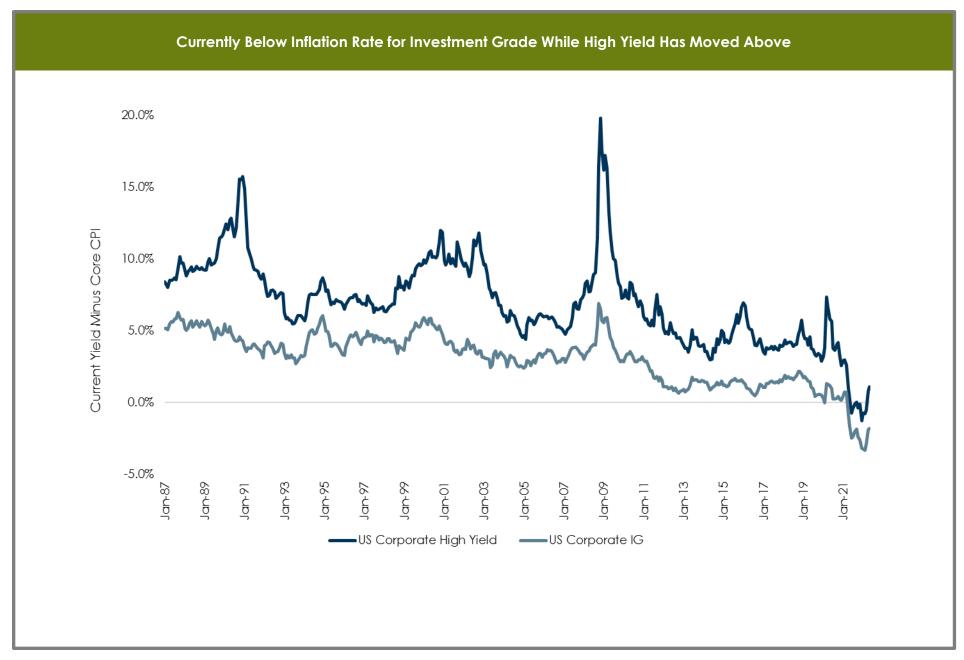
Source: ACG Research, Our World in Data (as of June 30, 2022)



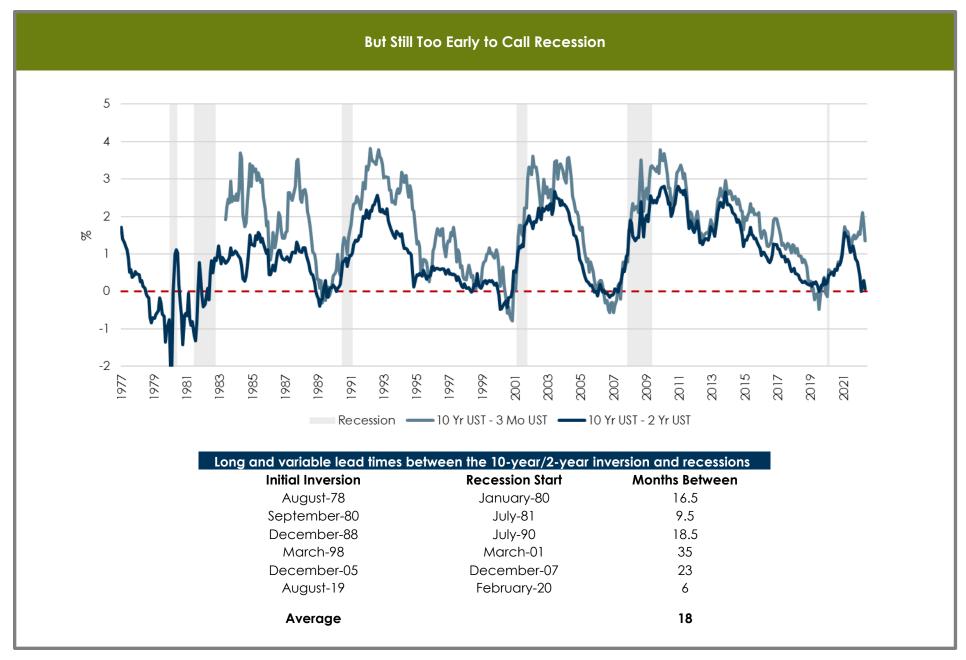
Source: ACG Research, BofA Global Fund Manager Survey (as of June 30, 2022)



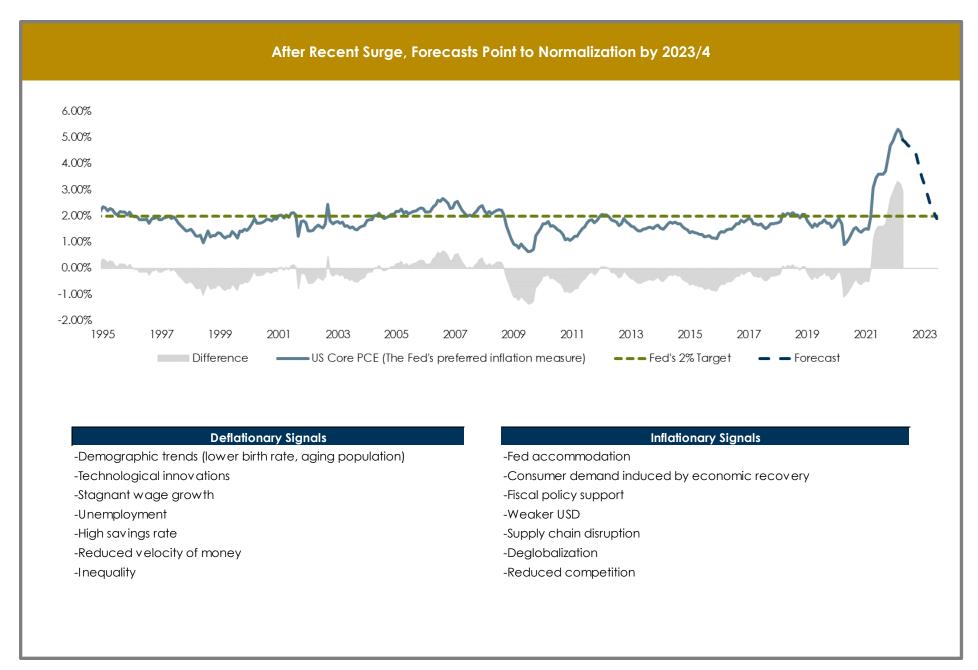
Source: ACG Research, Bloomberg (as of June 30, 2022)



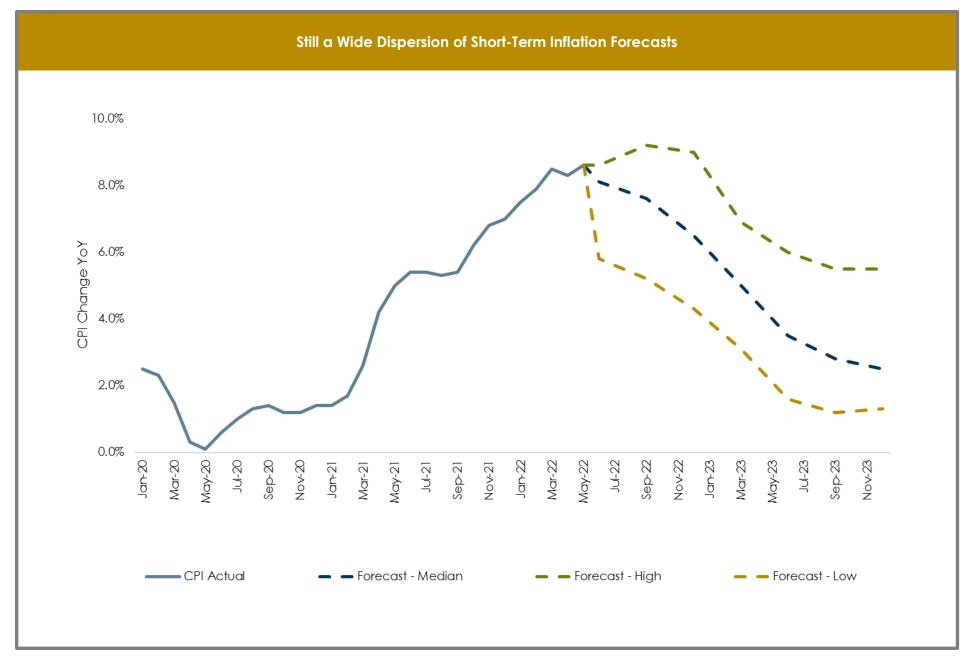
Source: ACG Research, Bloomberg (as of June 30, 2022)



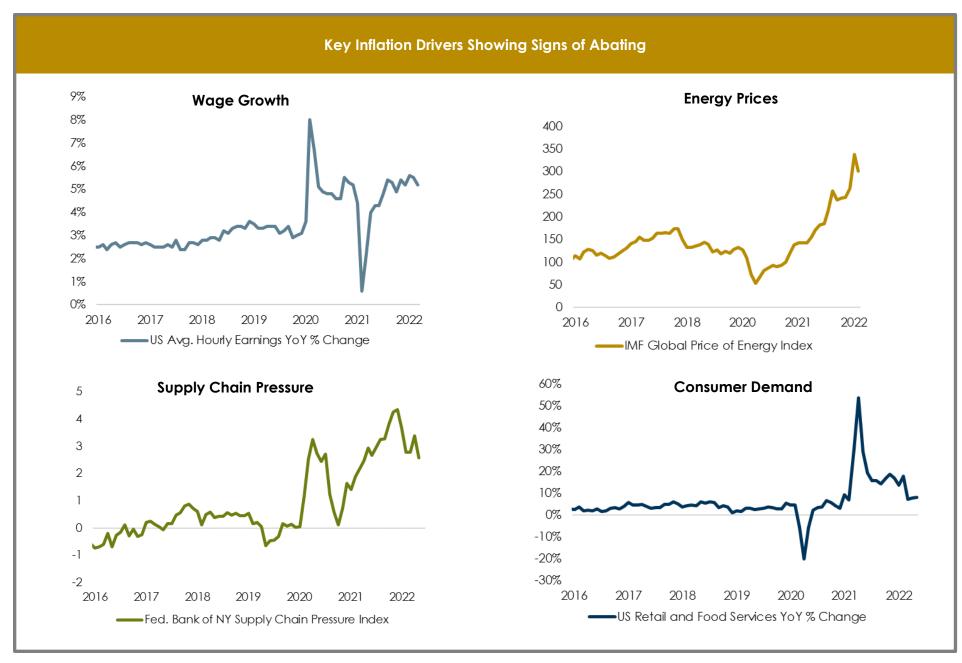
Source: ACG Research, Bloomberg, Oxford Economics (as of June 30, 2022)



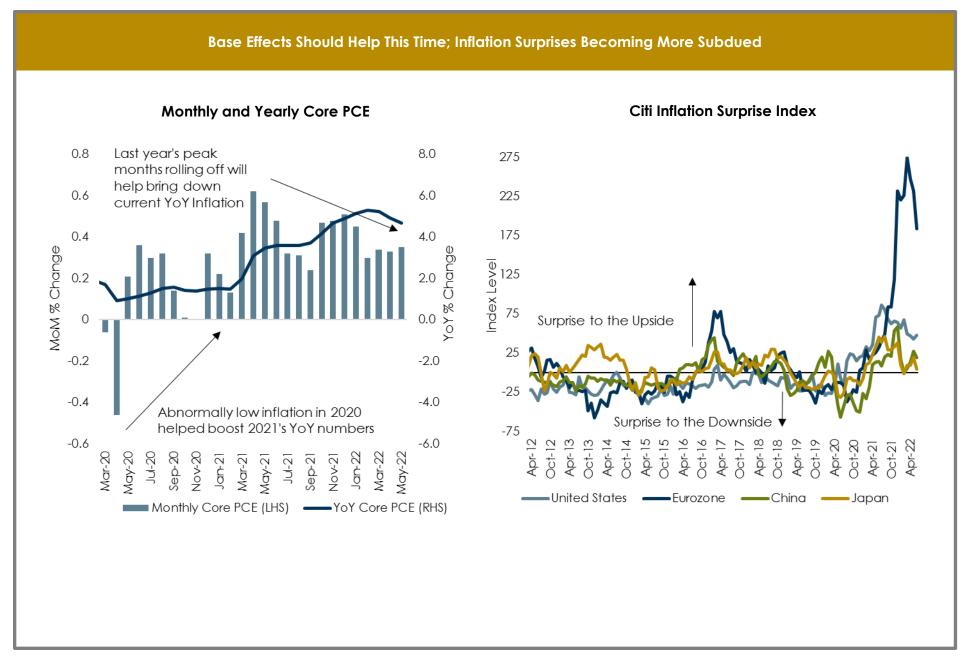
Source: ACG Research, Oxford Economics, Bloomberg (as of May 31, 2022)



Source: ACG Research,, Bloomberg Forecasts sourced from 52 institutions (as of June 30, 2022)



Source: ACG Research, Bloomberg, FRED, IMF (as of June 30, 2022)



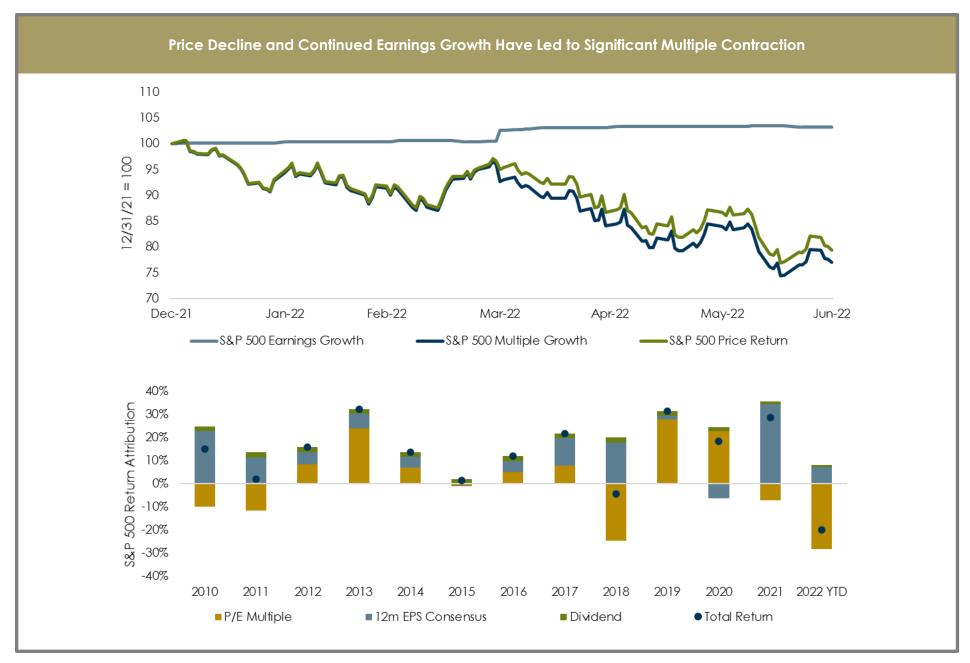
Source: ACG Research, Bloomberg, FRED, IMF (as of June 30, 2022)

P/E Multiples Have Moderated but are Not Cheap

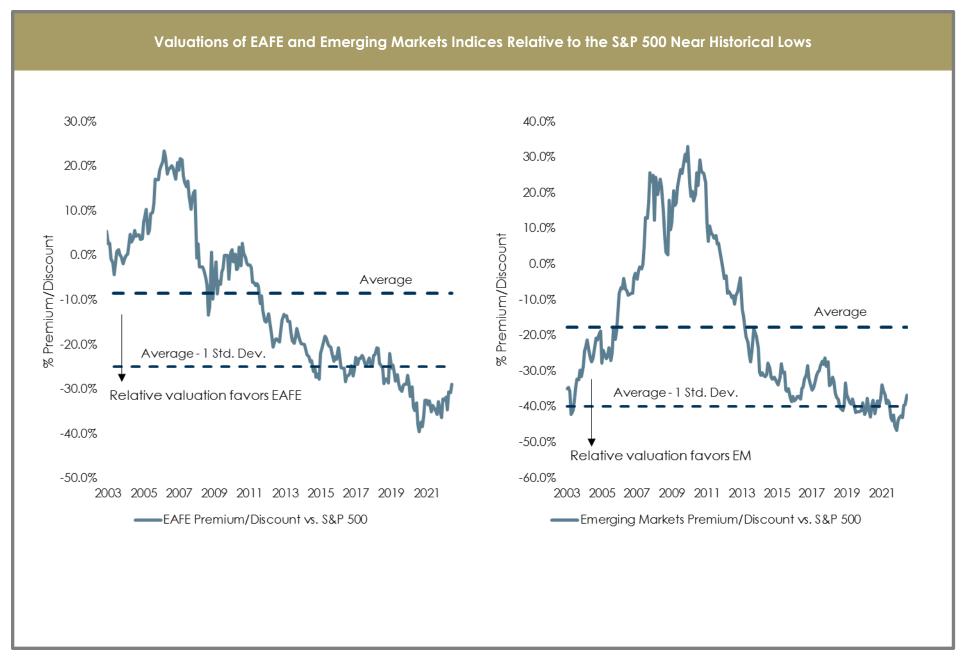
- S&P 500 Index p/e now in line with 25-year average (6/30/22 closing price of \$3785)
- Consensus earnings estimates for 2022 (\$229) suggest a forward p/e of 16.5x (vs. 25-year average of 16.8x)
- Consensus estimates are higher for 2023 (\$251), forward p/e for '23 is 15.1x (vs. 25-year average of 16.8x)
- Downward earnings revisions could be expected if economy continues to weaken



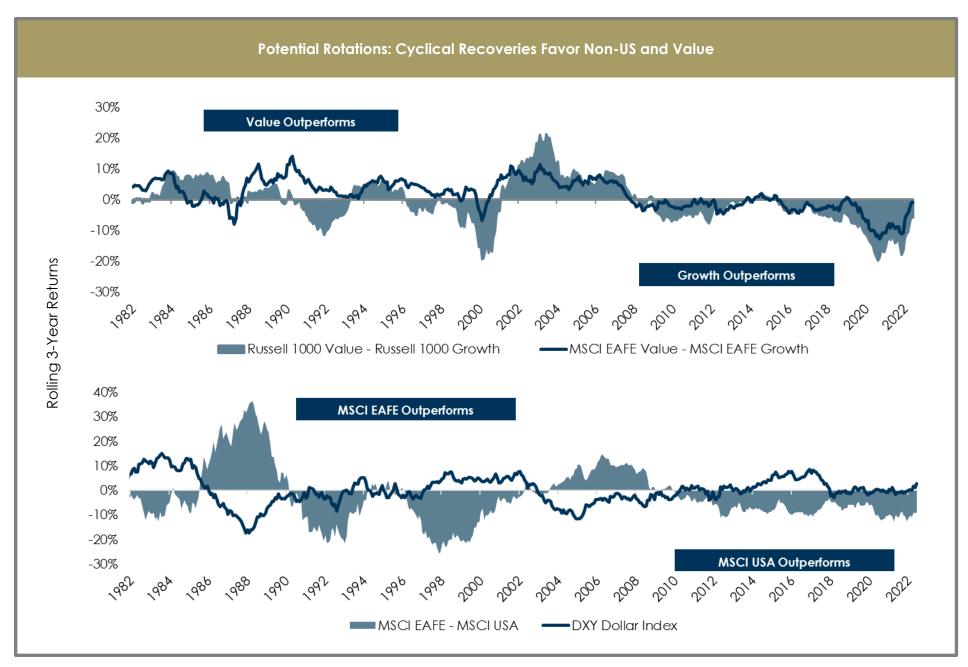
Source: FactSet, FRB, Robert Shiller, Standard & Poor's, J.P. Morgan Asset Management



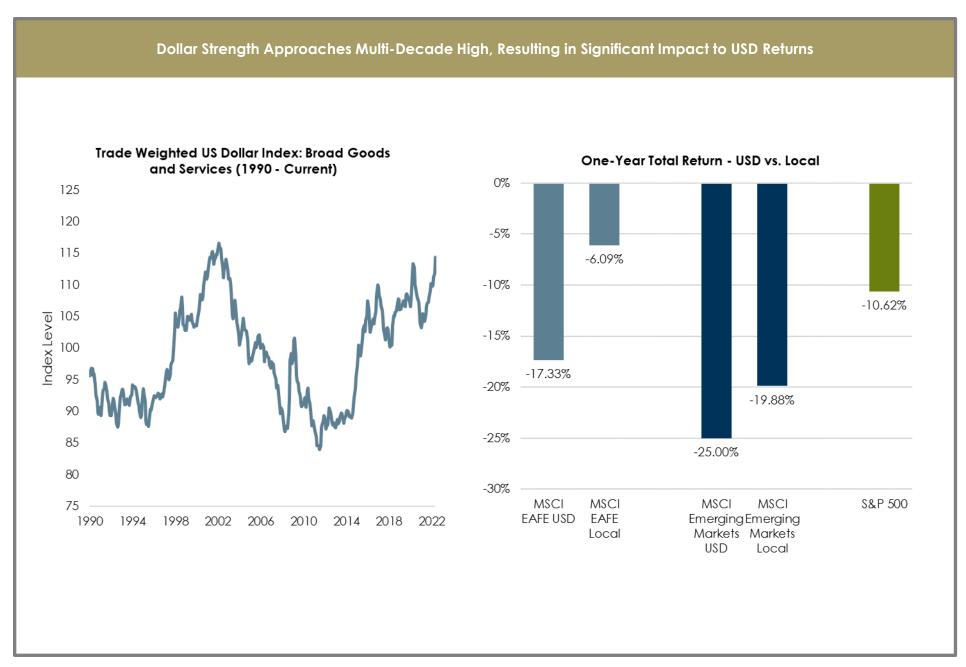
Source: ACG Research, Bloomberg, Robert Shiller (as of June 30, 2022)



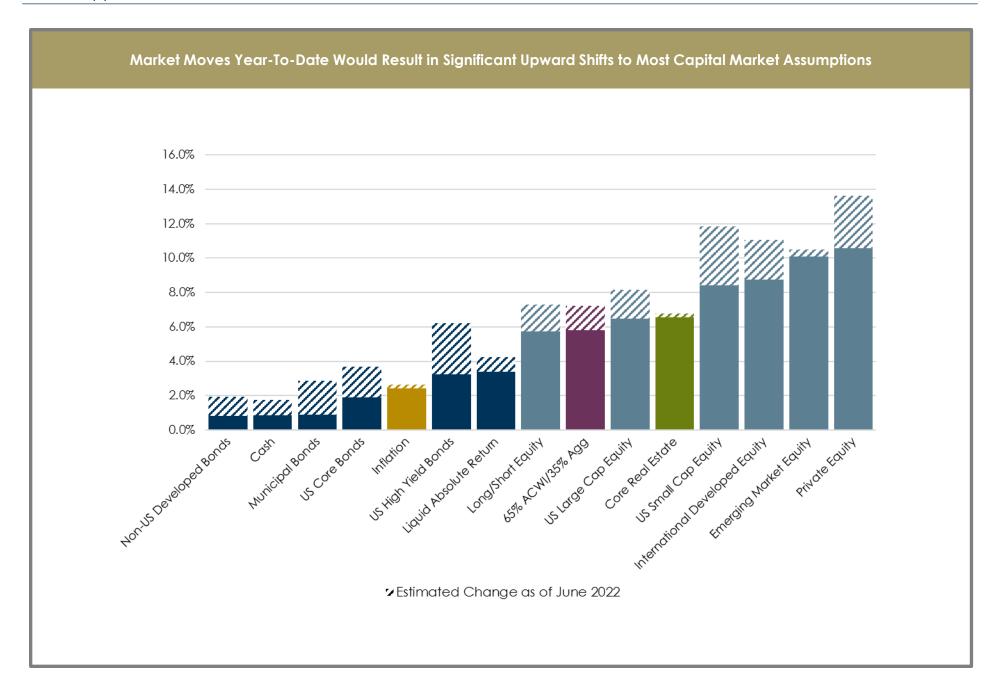
Source: ACG Research, Bloomberg (Valuations are Bloomberg's "Long-Term" PE, using an average of the last 10 years earnings discounted for inflation) (as of June 30, 2022)

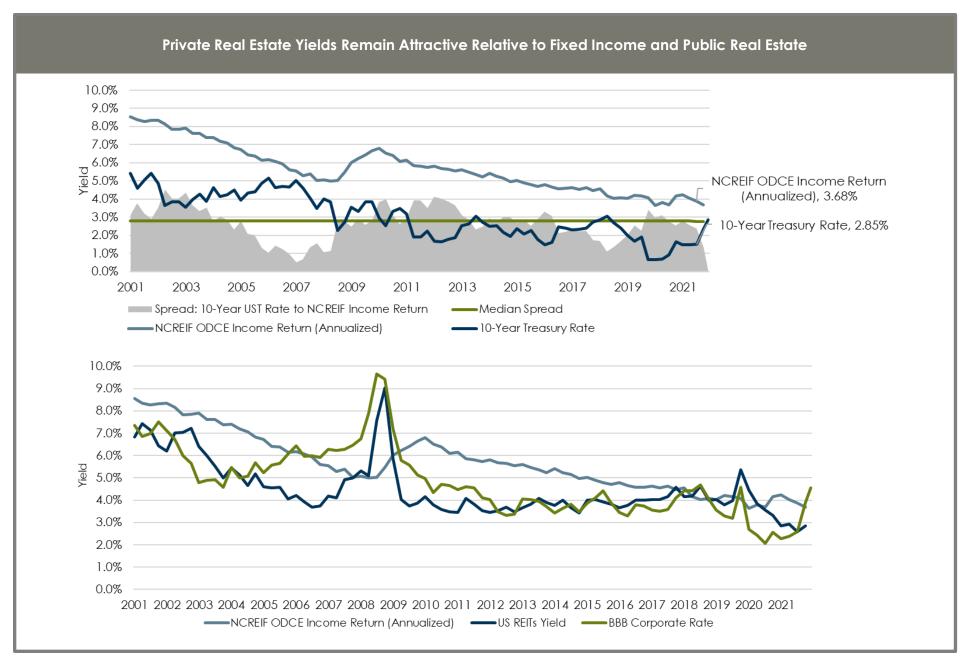


Source: ACG Research, Bloomberg, MSCI, Morningstar (as of June 30, 2022)

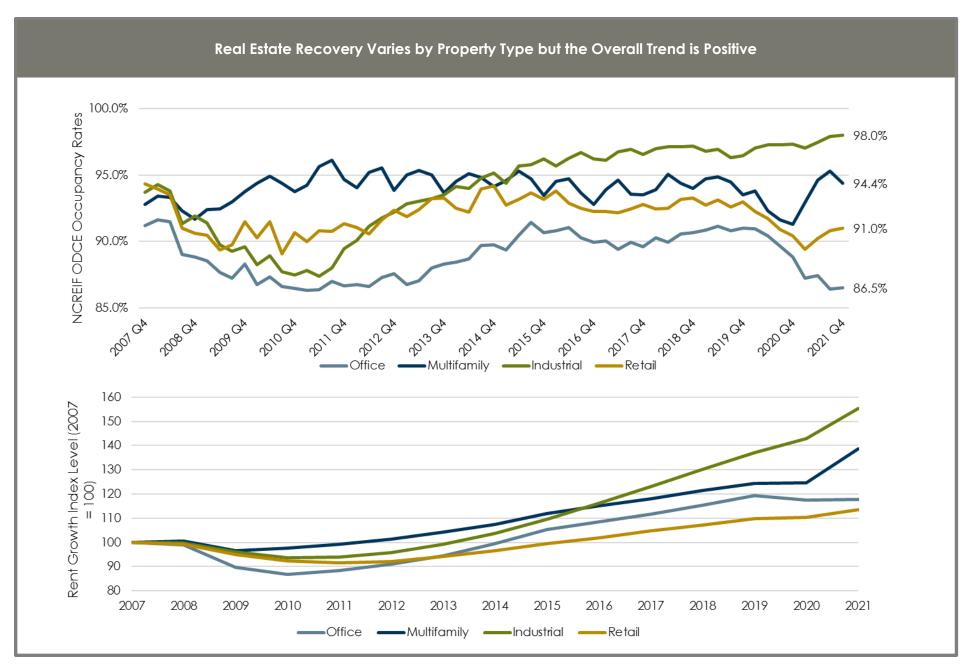


Source: ACG Research, Bloomberg, Morningstar (as of June 30, 2022)

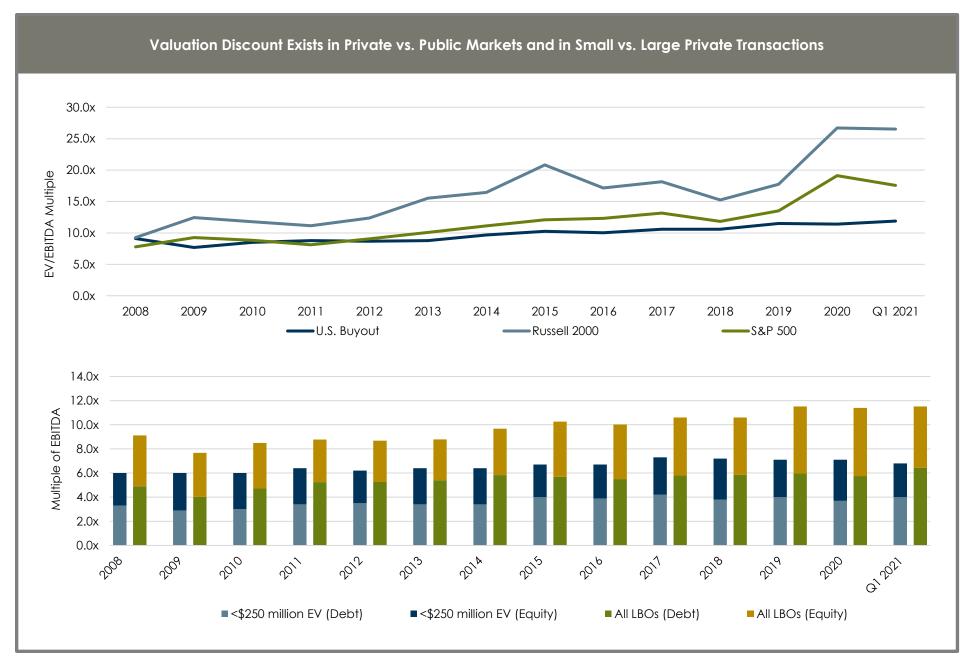




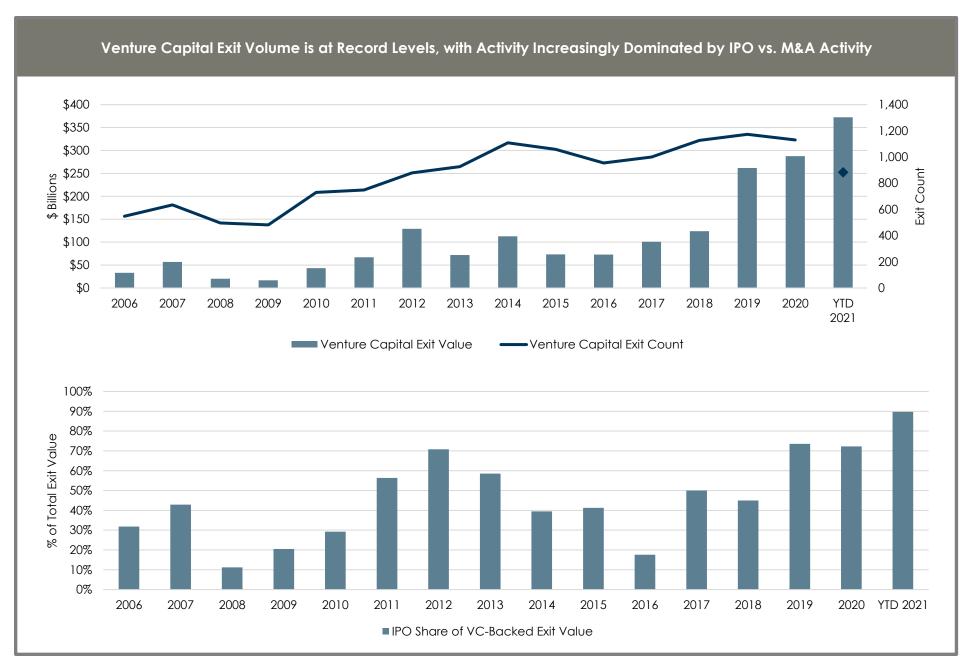
Source: Bloomberg, ACG Research (10-Yr Treasury and BBB Corporate Rate as of May 31, 2022, other data as of March 31, 2022)



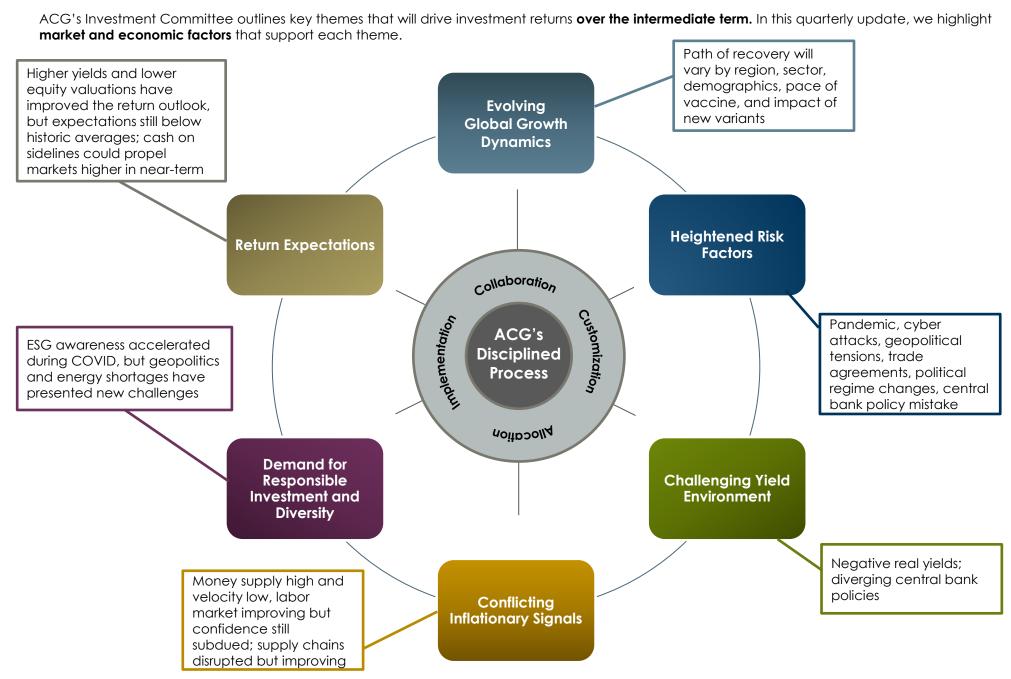
Source: AEW, CoStar, ACG Research (as of December 31, 2021)



Source: S&P LCD, CIBC Capital Markets, GF Data, ACG Research (as of March 31, 2021)



Source: Renaissance Capital, PitchBook, ACG Research (as of June 30, 2021)



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Evolving Global Growth Dynamics

- Maintain long-term strategic allocations
- Pursue active/focused/opportunistic strategies in less efficient markets

Heightened Geopolitical & Social Risks

- Embrace global diversification, with a modest reserve of dry powder
- Private strategies and long/short equity can limit near-term price impacts

Challenging Yield Environment

- Maintain high-quality core fixed income exposures for portfolio ballast
- Incorporate "non-traditional" strategies for flexibility and yield enhancement

Conflicting Inflationary Signals

- Shorter-dated fixed income and floating rate securities protect against inflationary surprise
- Diversified real assets can provide enhanced income amid rising prices

Demand for Responsible Investment

- Consider a high-quality portfolio orientation
- Opportunities in both stocks and bonds for impact oriented investment

Muted Return Expectations

- Revisit overall risk tolerance and investment objectives
- Focus on strategic plan versus frequent tactical shifts

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