

UBS House View

Monthly Letter

28 July 2022

Chief Investment Office GWM
Investment Research

Narrative shift

Market concerns have shifted from inflation onto the risk of overtightening and recession.

Long-term is brighter

Near-term uncertainty remains high, but this year's sell-off has created investment opportunities for longer-term investors.

Waiting is costly

The risk-reward associated with waiting to invest deteriorates notably over time. The longer one plans to invest for, the harder it is to justify waiting.

Asset allocation

Within equities, we tilt our exposure toward value, defensives, and quality. We move high grade bonds to most preferred from neutral.



Mark Haeefele

Chief Investment Officer
Global Wealth Management

 Follow me on LinkedIn
[linkedin.com/in/markhaefele](https://www.linkedin.com/in/markhaefele)

 Follow me on Twitter
twitter.com/UBS_CIO

Why invest now?

Central bankers continue to talk tough about inflation, but markets have largely moved on from worries about rising prices as the risk of overtightening and recession has come into greater focus. What does this mean for investors today?

In the near term, we think the risk-reward for broad equity indexes will be muted. Equities are pricing in a "soft landing," yet the risk of a deeper "slump" in economic activity is elevated. Tactically, we therefore advocate selectivity—preferring value, quality income, and healthcare—and optionality. In fixed income, we move high grade bonds, which would likely rally sharply in a "slump" scenario, from neutral to most preferred. In currencies, we keep a most preferred stance on the Swiss franc.

But what about investors with a longer-term view?

We believe a combination of below-average equity valuations, above-average yields, and post-peak private equity vintages will mean stronger long-term returns for diversified portfolios. After a 26% decline in valuations over the past 12 months, the S&P 500 is now trading at levels consistent with annualized returns in a healthy 7–9% range over the next decade (see page 3). Yields available in bond markets have improved significantly this year. And in alternatives, growth funds created following public market sell-offs have historically delivered better returns than those from prior vintages. In this context, from a longer-term perspective, many clients appear underdiversified and underinvested.

Investors often try to reconcile a constructive long-term view with a more challenging short-term outlook by simply waiting. But this approach also entails risks: The potential savings from waiting tend to be limited, but the potential opportunity costs can be much larger. And, while the near-term outlook for equities might be uncertain, we believe diversified portfolios should deliver more stable outcomes over the coming months, given the potential market scenarios we face.

By buying, or committing to buy, diversified portfolios today, we believe investors can both mitigate near-term risks and position for long-term performance, without running the risk of being left, potentially indefinitely, on the sidelines.

In this letter, we share our latest views on the short-term outlook for the market, then detail why we think the longer-term outlook has improved this year, and analyze how longer-term investors should think about the trade-off between waiting and investing.



This report has been prepared by UBS AG. Please see important disclaimers and disclosures at the end of the document.

Near-term uncertainty remains

Since our last letter, there have been two main developments relevant to our 2H outlook.

Central banks are reducing fears of longer-term inflation.

First, central banks are reducing fears of longer-term inflation. Although recent inflation data has surprised to the upside, markets have priced in a more front-loaded rate hiking cycle by the Federal Reserve, and this appears to be reducing long-term inflation fears. In the July University of Michigan survey of consumers, long-run inflation expectations fell to 2.8% per annum, down from 3.1% in June, and US 10-year breakeven inflation rates have declined from a peak of 3.1% in April to 2.46%. Core CPI has also now declined for three consecutive months.

Concerns about recession are rising.

Second, concerns about recession are rising as growth indicators have continued to fall. In the US, second-quarter GDP contracted 0.9% on an annualized basis, the second consecutive quarterly decline. S&P Global's flash composite PMI dropped to 47.5 in July from 52.3 in June, indicating contraction. In the Eurozone, the composite PMI for July fell to 49.4 from 52 in June, also pointing to a contraction in business activity. In China, mortgage payment boycotts in response to suspended and delayed housing construction and the resurgence of COVID-19 in several cities have brought into focus potential headwinds to a second-half economic recovery.

To account for these developments, we have reduced the probability we assign to our "stagflation" scenario—in which fears of inflation running out of control drive both equities and bonds lower—from 20% to 10%. But we have also raised our estimate for our "slump" scenario—in which fears of a deeper recession lead stocks to fall and high grade bond prices to rise—from 30% to 40%.

Where does this leave us?

In our view, there is a 50% probability that broader equity indexes will move lower from here.

In our view, there is a 50% probability that broader equity indexes will move meaningfully lower over the balance of the year. The "reflation" scenario could bring upside, but this would require markets to start to believe that commodity supply challenges will be resolved, COVID-19 concerns in China will dissipate, or US labor force participation will rise significantly. We think this is a lower-probability scenario. As such, for tactical investors, this remains a market in which to stay diversified, defensive, and selective.

Four scenarios that could drive the market

CIO estimates and targets for end-2022

	Current	Soft landing	Slump	Stagflation	Reflation
S&P 500	4,024	3,900	3,300	3,100	4,500
10-year yield	2.78%	3.25%	1.50%	4.00%	2.75%
Breakeven	2.46%	2.55%	2.00%	3.00%	3.25%
Real	0.32%	0.70%	-0.50%	1.00%	0.50%
Equity risk premium	315bps	278bps	426bps	312bps	260bps
Implied forward P/E	16.9x	16.6x	17.4x	14x	17.9x
Forward earnings per share	USD 238*	USD 235	USD 190	USD 235	USD 252
Earnings growth (y/y)		3.5%	-16.3%	3.5%	11%
Probability		40%	40%	10%	10%

* 12-month forward consensus

Source: Bloomberg, UBS, as of July 2022

The long-term outlook has improved this year

The near-term outlook is challenging. Yet for longer-term investors, the sell-off so far in 2022 can be viewed as creating opportunity.

The S&P 500 now trades at valuations consistent with 7–9% returns over the next decade.

Valuations tend not to be a reliable guide to short-term performance. But they do correlate with long-term returns. Today, after a 26% derating over the past 12 months, the S&P 500 trades at a trailing price-to-earnings (P/E) ratio of 18.3x, a level that since 1960 has been consistent with annualized returns in a healthy 7–9% range over the next decade. The MSCI All Country World Index, meanwhile, trades at a trailing P/E of 15.5x, which since 1988 has been consistent with annualized returns of 6–8% over the next 10 years. Yields available in bond markets have also improved substantially this year.

Government bond yields are close to the highest level since 2018 (and 2008 before that). The starting level of yields has historically proven a reliable guide to longer-term bond market returns, suggesting that the longer-term outlook for fixed income is now stronger than it has been for most of the post-financial-crisis era.

History suggests the outlook for newly created private equity growth funds is attractive.

In alternatives, although it is likely that some existing private equity funds will announce downward revisions to net asset values following the sell-off in public markets, growth funds created following public market sell-offs have historically delivered better returns than those of prior vintages. Cambridge Associates estimates an internal rate of return (IRR) of 18.6% for growth equity investments made one year after a market peak, versus 11.4% for those made one year before a public market peak.

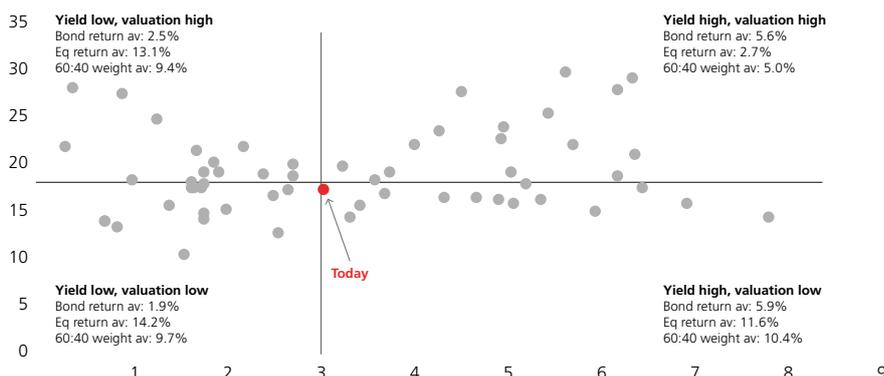
Of course, there are some longer-term risks. Aging populations are likely to limit GDP growth, and the ongoing shift within economies in favor of services can hinder productivity growth. Profits as a percentage of GDP have risen to levels that suggest further gains might come at the expense of consumer spending. And quantitative tightening and higher interest rates imply a different liquidity outlook than has prevailed for the last decade.

However, we don't need to believe that the next decade will be better than the past one to still see a decent outlook for portfolios. Furthermore, innovation and technological advances can promote productivity growth, even in service sectors. The Fourth Industrial Revolution can help drive economic efficiencies, which could help margins remain resilient. And, while central banks are shrinking their balance sheets, elevated levels of government debt mean they will want to keep long-term rates low to keep debt burdens sustainable.

Figure 1

The combination of above-average yields and below-average valuations is rare in recent history

S&P 500 P/E based on trailing earnings, 5-year US Treasury yield in %, semiannual data, past 30 years



Source: Bloomberg, Factset, Datastream, UBS, as of July 2022

Below-average equity valuations and above-average yields point to stronger long-term returns.

It is difficult to know precisely how to balance competing long-term forces when calculating return estimates. But in our view the long-term valuation analysis has merit for its simplicity and track record. In short, we believe a combination of below-average equity valuations, above-average yields, and post-peak private equity vintages will mean stronger long-term returns for diversified portfolios.

Why waiting can be riskier than investing

Waiting before investing comes with risks.

One way that investors often try to combine a constructive long-term view with a more challenging short-term outlook is simply to wait before investing. But waiting comes with risks, too.

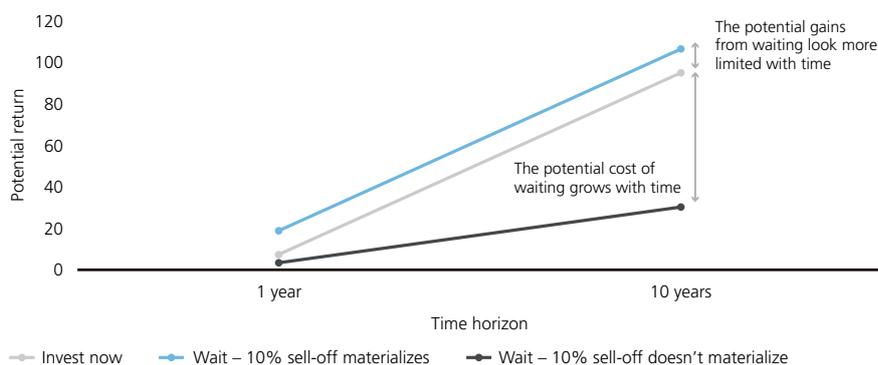
Let’s consider two options investors have today: 1) hold cash, and only buy if the market falls by 10% from today’s levels; or 2) buy now. How do these options play out over a one-year and 10-year horizon?

Based on our short-term S&P 500 targets and some assumptions about long-term levels for the index, we find that the risk-reward associated with waiting deteriorates notably over time. We offer a full analysis and explanations in the box at the end of this letter. But, to summarize, the longer one plans to invest for, the harder it is to rationally justify waiting.

Figure 2

The longer your time horizon, the harder it is to justify waiting

Time horizon and potential return (%)



Source: Bloomberg, UBS, as of July 2022

The opportunity cost of waiting compounds over time.

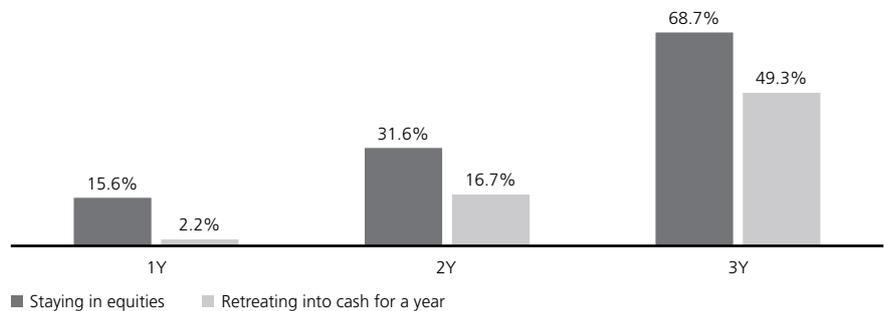
The idea that waiting can be riskier than investing immediately is also borne out in the historical data. Since 1960, a strategy that waited for a 10% correction before buying the S&P 500 and then sold at a new all-time high would have underperformed a buy-and-hold strategy by 80x (yes, eighty). Over the same time period, a strategy of investing immediately after a 20% drop would have delivered an average one-year return of 15.6%. Staying in cash for a year after a 20% drop comes at a significant opportunity cost, and the gap in performance widens over time with the effect of compounding. And strategies investing “all at once” outperformed 12-month phased investment strategies by an average of 4.4% in the first year, considering data since 1945.

The costs associated with attempted market timing are also evident in real-world investor performance data. DALBAR’s latest Quantitative Analysis of Investor Behavior report shows that the average mutual fund investor has underperformed the S&P 500 by 3.52% p.a. over the past 30 years, including more than 10 percentage points of underperformance in 2021 alone. For many investors, the more work, time, and stress they add to their lives with market timing, the worse their performance.

Figure 3

Staying invested pays off

Forward returns after a 20% drop: Staying invested in equities vs. retreating into cash for a year before reentering the market, based on monthly data since 1960



Source: Ibbotson, UBS, as of July 2022

In short, we think that by buying, or at least committing to buy, diversified portfolios today, investors can both mitigate near-term volatility and position for long-term performance, without running the risk of being left, potentially indefinitely, on the sidelines.

Investment ideas

Within our asset class preferences, we make two changes this month:

We move high grade bonds to most preferred from neutral.

First, we move the 1- to 10-year segment of high grade bonds, which includes sovereign, agency, quasi-sovereign, and similar types of bonds, to most preferred from neutral. Significant expectations of a front-loaded rate hiking cycle are already priced in; spreads between high grade and sovereign bonds are wide compared to history; and the relatively high carry provides some insulation against volatility—yields would have to rise by 125 basis points in the 1- to 5-year segment and 50 basis points in the 5- to 10-year for the position to become unprofitable over a one-year period.

There is also scope for yields to fall further if fears of a “slump” start to affect markets. This could be particularly beneficial for high grade bonds because, after a sharp sell-off so far this year, many bonds are now trading at a discount to their redemption values. This means a move lower in bond market yields would result in a larger increase in bond prices than a similar-sized move higher in market yields would result in lower prices. This is referred to as “positive convexity.”

We move gold to least preferred from neutral.

Second, we move gold from neutral to least preferred. Increases in US interest rates, falling inflation, quantitative tightening, and continued US dollar strength are all likely to weigh on gold, and we expect prices to end the year at USD 1,600/oz, from USD 1,746/oz today. In this context, we do not think gold is well positioned as a hedge against economic slowdown and therefore think investors should either hedge existing gold positions or swap them for other defensive assets, such as high grade bonds, quality-income stocks, the healthcare sector, resilient credits, and the Swiss franc.

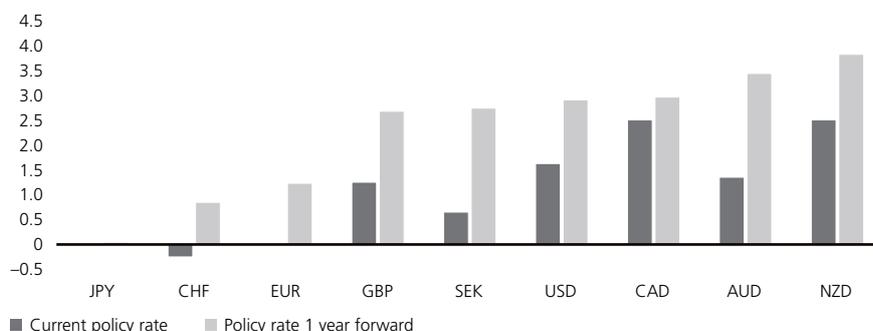
Elsewhere, within equities, we stay most preferred on quality income, value, and the UK and Australian markets, and least preferred on growth. We also prefer the energy and healthcare sectors.

In currency markets, we prefer the Swiss franc, the Australian dollar, and the Canadian dollar and are least preferred on the euro. We also keep a most preferred stance on overall commodities and oil.

Figure 4

Significant expectations of front-loaded hiking cycle already embedded in yield curves

Current policy rate, policy rate one year forward, in %



Source: Bloomberg, UBS, as of 26 July 2022

Overall, to blend an uncertain short-term outlook with long-term opportunities, we continue to focus on ideas that can help investors build a diversified portfolio, navigate varying near-term outcomes, and grow wealth over the long term. These include:

Scenarios	Investment ideas	
Slump / Stagflation (downside)	<i>Manage a liquidity strategy</i>	By building a Liquidity strategy—and funding it with cash, bonds, select structured investments, and borrowing capacity to meet the next 3–5 years of cash flow needs—investors can mitigate the risk of forced selling, earn yield, and prepare to capture market opportunities as they arise.
	<i>Diversify with hedge funds</i>	Some hedge fund strategies—especially macro strategies—can perform well in recessionary scenarios, and so far this year they have broadly outperformed equity and fixed income strategies. As a result, they can be effective diversifiers.
	<i>Add defensives and quality</i>	The full impact of higher interest rates and high inflation on corporate profits is not yet clear. By adding exposure to defensive parts of the market (including healthcare and quality-oriented stocks), high grade bonds, and the Swiss franc, we believe investors can improve the resilience of their portfolios. In contrast, we do not see gold as an effective portfolio hedge today.
	<i>Make use of volatility</i>	To mitigate volatility, we think capital protection and dynamic asset allocation are good ways to position more defensively. Meanwhile, we see opportunities to generate yield amid elevated currency, commodity, and equity market volatility.
Soft landing	<i>Invest in value</i>	After outperforming for much of the year, value stocks have underperformed in recent weeks amid lower commodity prices and lower bond yields. But we continue to see upside in commodity prices, and, until inflation falls consistently, think value will outperform growth. We favor broad value with a quality tilt, energy stocks, and the UK market.
	<i>Position for the era of security</i>	Amid supply chain challenges, geopolitical uncertainty, and high commodity prices, governments and businesses alike are adapting to an “era of security,” in which security is valued more highly than efficiency or price. In the near term, tightness in various commodity markets means we expect higher prices in the months ahead. Over the longer term, we think demand for energy security (carbon-zero), food security (agricultural yield enhancement), and cyber-security solutions will all be boosted in this new world.
Reflation	<i>Be selective in longer-term growth</i>	An alleviation of market concerns about longer-term inflation has supported the recent rally in growth stocks, although we still advocate selectivity at this stage. We see opportunities in select beaten-down stocks, companies linked to the automation and robotics theme, family businesses, and China.
	<i>Invest in private markets</i>	Some private market funds are likely to revise down net asset value estimates in the coming months, as a result of the decline in growth equity valuations this year. But putting fresh capital to work in private markets following declines in public market valuations has historically been a rewarding strategy.

3L disclaimer: Timeframes may vary. Strategies are subject to individual client goals, objectives and suitability. This approach is not a promise or guarantee that wealth, or any financial results, can or will be achieved.

Key scenarios and asset class impact

	Reflation <i>Strong equity recovery</i>	Soft landing <i>Limited upside in risk assets</i>	Slump <i>Equities fall as safe bonds rally</i>	Stagflation <i>Equities and bonds fall further in tandem</i>
<i>Probability</i>	10% (before: 10%)	40% (before: 40%)	40% (before: 30%)	10% (before: 20%)
<i>Primary triggers</i>	Economic growth surprises positively, while official inflation numbers start to decline ahead of expectations. Inflation fears abate. The Fed and other major central banks reduce accommodation less than the market currently expects.	Corporate earnings remain resilient despite a slowdown in economic growth brought about by tightening financial conditions and rising energy costs. Markets remain resilient despite possible shallow recessions in the US and the Eurozone. Although headline inflation numbers remains strong, core inflation continues to decelerate, and long-term inflation expectations remain anchored as investors gain confidence that inflation is gradually coming under control. The Fed and the ECB raise rates at most in line with market pricing.	The US experiences a recession in the next 12 months as real disposable incomes fall considerably and tight financial conditions disrupt economic activity. Investors start to price in a significant drop in corporate profits. European sovereign spreads rise to a level of concern. The economic downturn is sufficiently deep to send inflation, bond yields, and risk assets sharply lower. The Fed and other central banks consider interest rate cuts and/or other monetary easing measures.	Recessions in the US, the Eurozone, and other regions are not enough to contain inflationary pressure. Inflation continues to rise and stays high throughout 2022. The Fed remains “behind the curve” as wage-price spirals start to form. Long-term inflation expectations rise. The Fed and other major central banks continue to tighten policy aggressively, which further pushes up government bond yields and depresses equity valuations.
<i>Secondary triggers</i>	The flow of Russian gas to Europe resumes to meet European energy demand in full. Energy markets stabilize. COVID-19 epidemic in China subsides; any further majority lockdowns are limited to seven days or less. Strong policy support lifts growth. The US labor force participation rate improves as high wages attract more workers.	Russia continues to supply gas to Europe at a reduced capacity. Gas rationing in Europe leads to a shallow Eurozone recession in the second half of 2022. The COVID-19 epidemic in China continues, but any further major city lockdowns are limited to 7–14 days. Policy support is gradually ramped up to support growth.	A prolonged cessation of Russian gas supply to Europe causes a deep Eurozone-wide recession. Russia resorts to the use of WMDs in Ukraine, which dramatically increases the risk of direct military involvement by NATO. COVID-19 epidemic in China reaccelerates with more large-city lockdowns extending beyond 14 days. Policy response is delayed and transmission to the economy is slow.	Energy and food prices stay elevated because of persistent supply disruptions caused by the war in Ukraine, sanctions on Russian gas, and Russia’s weaponization of energy exports. Reacceleration of the COVID-19 epidemic in China weighs on China’s export capacity, exacerbating supply bottlenecks.
<i>What happened?</i>	Downside risks to growth increased while structural upside risks to inflation receded since last month. In the US, the June headline CPI beat expectations at 9.1%, while University of Michigan 5-year inflation expectations fell from 3.1% to 2.8% and long-term breakevens declined. The US Treasury yield curve inverted, signaling the Fed’s increasing willingness to contain inflation at the expense of an economic downturn. Elsewhere, early signs point to a stronger-than-expected reacceleration in China in the second half of 2022. COVID-related lockdown rules have been adjusted in favor of municipal authorities to make any future lockdowns more targeted. More active policy support is expected to lift growth further and limit the impact on global supply chains. Long-term inflation expectations in the US declined as headline inflation remained high.			

	Spot*	Reflation	Soft landing	Slump	Stagflation
S&P 500	4,024	4,500	3,900	3,300	3,100
EuroStoxx 50	3,607	4,200	3,400	3,000	2,700
MSCI EM	990	1,180	1,050	850	800
SMI	11,057	12,200	11,300	9,600	9,400
MSCI AC World	752	830	750	615	570
US 10-year nominal yield	2.78%	2.75%	3.25%	1.50%	4.00%
US 10-year real yield	0.32%	0.50%	0.70%	-0.50%	1.00%
US IG spread**	127bps	45bps	100bps	200bps	135bps
US HY spread**	507bps	300bps	450bps	750bps	650bps
EURUSD	1.02	1.08	0.98	0.98	0.95
Gold	USD 1,746/oz	USD 1,400–1,500/oz	USD 1,600/oz	USD 1,800–1,900/oz	USD 2,000–2,100/oz

* Spot prices as of market close of 27 July 2022

** During periods of market stress, credit bid-offer spreads tend to widen and result in larger ranges. Percentage changes refer to expected total return (t.r.) for the indicated spread levels.

Note: asset class targets above refer to the respective macro scenarios. Individual asset prices can be influenced by factors not reflected in the macro scenarios.

Source: UBS, as of July 2022

Adding up the cost of waiting

Does it make sense to wait before investing? Our analysis shows that, for those with one-year investment horizons, it is rational to wait if you perceive there is a greater-than-30% chance of a greater-than-10% sell-off. For those with a 10-year investment horizon, it is only rational to wait if you perceive a >81% chance of a >10% sell-off.

We assume:

- A 1-year cash return of 3%, based on 1-year US government bond yields.
- A 10-year cash return of 32%, based on compounding the 2.8% annualized yield on 10-year US government bonds.
- A 1-year return on equity of 8%, based on our June 2023 S&P 500 target of 4,200 (4.3% higher than today) and a dividend yield of 1.6%.
- A 10-year return on equity of 82%, based on our estimate of fair value in 10 years' time. If we extrapolate trend earnings, we reach an estimate of S&P 500 earnings per share of USD 382 by 2032 (from USD 227 in 2022). The median P/E ratio on the S&P 500 since 1960 has been 16.1x. This would imply an S&P 500 level in 2032 of 6,150 (16.1 x USD 382), 56% higher than today's level. If we include reinvested dividends, we derive a total return of 82%. (Note that trend earnings analysis can generate different forward returns than our historical P/E analysis).

Next, we consider the potential outcomes for two kinds of strategies that can be employed today: 1) hold cash, and only buy if the market falls by 10% from today's levels; or 2) buy now.

- Returns for the "now" investor, who puts money to work immediately, would simply be in line with the market returns described above.
- Returns for the "wait" investor, who holds cash and only chooses to invest if a 10% sell-off materializes, would vary depending on whether the sell-off materializes, or doesn't.
- For the scenarios in which a 10% sell-off materializes, the "wait" investor would buy in at 10% below the current prices. Thereafter, they would earn returns in line with our assumptions above. Depending on how long they waited in cash, they would also earn some return on cash.
- For the scenarios in which the 10% sell-off doesn't materialize, the "wait" investor would remain in cash for the entire period.

The table below shows the potential outcomes.

- Over a 1-year horizon, "wait" investors would either earn 18–21% (if they bought the dip and the market recovered to our June 2023 target), or 3% (if they remained in cash). "Now" investors would earn 8%.
- Over a 10-year horizon, the "waits" would either earn 92–95% (if they bought the dip and the market delivered returns in line with the above assumptions thereafter), or 32% (if they remained in cash). The "nows" would earn 82%.

There is no one strategy that outperforms in all scenarios.

So, how to calculate a rational course of action?

- Of course, much depends on the perceived likelihood of a sell-off. If a sell-off is likely, it is better to wait. If it is unlikely, it is better to invest now. One way to judge a rational course of action is to consider what probability of a sell-off would be required before the expected return from waiting is higher than the expected return from investing.
- Over a one-year horizon, we find we would have to assume a >30% probability of a sell-off before the "wait" investor's expected returns are greater than the "now" investor's return. (In this case, the expected return for the "wait" investor in the first year would be: $(>30\% \times 18.5\%) + (<70\% \times 3\%) = >7\%$).
- Over a 10-year horizon, we would have to assume a >81% probability of a sell-off materializing before the "wait" investor's expected returns are greater than the "now" investor's. (In this case, the expected return over a 10-year horizon would be $(>81\% \times 93.5\%) + (<19\% \times 32\%) = >82\%$).

What does this mean?

- In short, for investors putting money to work with a one-year investment horizon, it is rational to wait if they perceive a >30% chance of a >10% sell-off.
- But for those investing with a 10-year investment horizon, it is only rational to wait if they perceive a >81% chance of a >10% sell-off.
- Simply put, while waiting can be justified for investors with a short-term time horizon, longer-term investors need to be very sure that markets are going to sell off in order to rationally justify waiting to invest.

1-year horizon	10% sell-off materializes within first year	10% sell-off doesn't materialize	Probability of the sell-off happening needed for "wait" investor to have higher expected return
"Wait"	+18–21%	+3%	30%
"Now"	+8%	+8%	
10-year horizon	10% sell-off materializes within first year	10% sell-off doesn't materialize	Probability of the sell-off happening needed for "wait" investor to have higher expected return
"Wait"	+92–95%	+32%	81%
"Now"	+82%	+82%	

Follow
Mark Haefele
on LinkedIn
and Twitter



 **Follow me on LinkedIn**
[linkedin.com/in/markhaefele](https://www.linkedin.com/in/markhaefele)

 **Follow me on Twitter**
twitter.com/UBS_CIO

UBS Investor Forum **Insights**

At this month's Investor Forum, panelists shared their views on market drivers, emerging markets, and investment opportunities.

- On the inflationary outlook, panelists discussed the role of central banks in bringing inflation down to target. The consensus view was that the Fed would likely shift its policy stance once inflation is brought down to about 4%. The global economy is also expected to adjust quickly to the changing environment, with reduced growth starting to impact the labor market as companies reduce their hiring intentions.
- China was the preferred area of investment among emerging markets. While panelists expressed caution over the fragility of the real estate market, they also identified opportunities supported by China's low inflation rate, slightly looser COVID-19 restrictions, and the PBoC's business-facilitating regulations. Beyond China, panelists are looking at how the US dollar will perform when deciding their risk appetite for emerging markets.
- Panelists advocated a defensive portfolio to navigate the uncertain economic environment. Regionally, some panelists identified investment opportunities in European value and high-dividend strategies while also recommending inflation hedges such as gold or real estate. In fixed income, investment grade bonds were seen as a good defensive position, while some participants showed interest in high yield credit, given recent cheaper valuations.

A handwritten signature in black ink that reads "Mark Haefele". The signature is fluid and cursive.

Mark Haefele
Chief Investment Officer
Global Wealth Management

Non-Traditional Assets

Non-traditional asset classes are alternative investments that include hedge funds, private equity, real estate, and managed futures (collectively, alternative investments). Interests of alternative investment funds are sold only to qualified investors, and only by means of offering documents that include information about the risks, performance and expenses of alternative investment funds, and which clients are urged to read carefully before subscribing and retain. An investment in an alternative investment fund is speculative and involves significant risks. Specifically, these investments (1) are not mutual funds and are not subject to the same regulatory requirements as mutual funds; (2) may have performance that is volatile, and investors may lose all or a substantial amount of their investment; (3) may engage in leverage and other speculative investment practices that may increase the risk of investment loss; (4) are long-term, illiquid investments, there is generally no secondary market for the interests of a fund, and none is expected to develop; (5) interests of alternative investment funds typically will be illiquid and subject to restrictions on transfer; (6) may not be required to provide periodic pricing or valuation information to investors; (7) generally involve complex tax strategies and there may be delays in distributing tax information to investors; (8) are subject to high fees, including management fees and other fees and expenses, all of which will reduce profits.

Interests in alternative investment funds are not deposits or obligations of, or guaranteed or endorsed by, any bank or other insured depository institution, and are not federally insured by the Federal Deposit Insurance Corporation, the Federal Reserve Board, or any other governmental agency. Prospective investors should understand these risks and have the financial ability and willingness to accept them for an extended period of time before making an investment in an alternative investment fund and should consider an alternative investment fund as a supplement to an overall investment program.

In addition to the risks that apply to alternative investments generally, the following are additional risks related to an investment in these strategies:

- **Hedge Fund Risk:** There are risks specifically associated with investing in hedge funds, which may include risks associated with investing in short sales, options, small-cap stocks, "junk bonds," derivatives, distressed securities, non-U.S. securities and illiquid investments.
- **Managed Futures:** There are risks specifically associated with investing in managed futures programs. For example, not all managers focus on all strategies at all times, and managed futures strategies may have material directional elements.
- **Real Estate:** There are risks specifically associated with investing in real estate products and real estate investment trusts. They involve risks associated with debt, adverse changes in general economic or local market conditions, changes in governmental, tax, real estate and zoning laws or regulations, risks associated with capital calls and, for some real estate products, the risks associated with the ability to qualify for favorable treatment under the federal tax laws.
- **Private Equity:** There are risks specifically associated with investing in private equity. Capital calls can be made on short notice, and the failure to meet capital calls can result in significant adverse consequences including, but not limited to, a total loss of investment.
- **Foreign Exchange/Currency Risk:** Investors in securities of issuers located outside of the United States should be aware that even for securities denominated in U.S. dollars, changes in the exchange rate between the U.S. dollar and the issuer's "home" currency can have unexpected effects on the market value and liquidity of those securities. Those securities may also be affected by other risks (such as political, economic or regulatory changes) that may not be readily known to a U.S. investor.

UBS Chief Investment Office's ("CIO") investment views are prepared and published by the Global Wealth Management business of UBS Switzerland AG (regulated by FINMA in Switzerland) or its affiliates ("UBS").

The investment views have been prepared in accordance with legal requirements designed to promote the **independence of investment research**.

Generic investment research – Risk information:

This publication is **for your information only** and is not intended as an offer, or a solicitation of an offer, to buy or sell any investment or other specific product. The analysis contained herein does not constitute a personal recommendation or take into account the particular investment objectives, investment strategies, financial situation and needs of any specific recipient. It is based on numerous assumptions. Different assumptions could result in materially different results. Certain services and products are subject to legal restrictions and cannot be offered worldwide on an unrestricted basis and/or may not be eligible for sale to all investors. All information and opinions expressed in this document were obtained from sources believed to be reliable and in good faith, but no representation or warranty, express or implied, is made as to its accuracy or completeness (other than disclosures relating to UBS). All information and opinions as well as any forecasts, estimates and market prices indicated are current as of the date of this report, and are subject to change without notice. Opinions expressed herein may differ or be contrary to those expressed by other business areas or divisions of UBS as a result of using different assumptions and/or criteria.

In no circumstances may this document or any of the information (including any forecast, value, index or other calculated amount ("Values")) be used for any of the following purposes (i) valuation or accounting purposes; (ii) to determine the amounts due or payable, the price or the value of any financial instrument or financial contract; or (iii) to measure the performance of any financial instrument including, without limitation, for the purpose of tracking the return or performance of any Value or of defining the asset allocation of portfolio or of computing performance fees. By receiving this document and the information you will be deemed to represent and warrant to UBS that you will not use this document or otherwise rely on any of the information for any of the above purposes. UBS and any of its directors or employees may be entitled at any time to hold long or short positions in investment instruments referred to herein, carry out transactions involving relevant investment instruments in the capacity of principal or agent, or provide any other services or have officers, who serve as directors, either to/for the issuer, the investment instrument itself or to/for any company commercially or financially affiliated to such issuers. At any time, investment decisions (including whether to buy, sell or hold securities) made by UBS and its employees may differ from or be contrary to the opinions expressed in UBS research publications. Some investments may not be readily realizable since the market in the securities is illiquid and therefore valuing the investment and identifying the risk to which you are exposed may be difficult to quantify. UBS relies on information barriers to control the flow of information contained in one or more areas within UBS, into other areas, units, divisions or affiliates of UBS. Futures and options trading is not suitable for every investor as there is a substantial risk of loss, and losses in excess of an initial investment may occur. Past performance of an investment is no guarantee for its future performance. Additional information will be made available upon request. Some investments may be subject to sudden and large falls in value and on realization you may receive back less than you invested or may be required to pay more. Changes in foreign exchange rates may have an adverse effect on the price, value or income of an investment. The analyst(s) responsible for the preparation of this report may interact with trading desk personnel, sales personnel and other constituencies for the purpose of gathering, synthesizing and interpreting market information.

Tax treatment depends on the individual circumstances and may be subject to change in the future. UBS does not provide legal or tax advice and makes no representations as to the tax treatment of assets or the investment returns thereon both in general or with reference to specific client's circumstances and needs. We are of necessity unable to take into account the particular investment objectives, financial situation and needs of our individual clients and we would recommend that you take financial and/or tax advice as to the implications (including tax) of investing in any of the products mentioned herein.

This material may not be reproduced or copies circulated without prior authority of UBS. Unless otherwise agreed in writing UBS expressly prohibits the distribution and transfer of this material to third parties for any reason. UBS accepts no liability whatsoever for any claims or lawsuits from any third parties arising from the use or distribution of this material. This report is for distribution only under such circumstances as may be permitted by applicable law. For information on the ways in which CIO manages conflicts and maintains independence of its investment views and publication offering, and research and rating methodologies, please visit www.ubs.com/research. Additional information on the relevant authors of this publication and other CIO publication(s) referenced in this report; and copies of any past reports on this topic; are available upon request from your client advisor.

Options and futures are not suitable for all investors, and trading in these instruments is considered risky and may be appropriate only for sophisticated investors. Prior to buying or selling an option, and for the complete risks relating to options, you must receive a copy of "Characteristics and Risks of Standardized Options". You may read the document at <https://www.theocc.com/about/publications/character-risks.jsp> or ask your financial advisor for a copy.

Investing in structured investments involves significant risks. For a detailed discussion of the risks involved in investing in any particular structured investment, you must read the relevant offering materials for that investment. Structured investments are unsecured obligations of a particular issuer with returns linked to the performance of an underlying asset. Depending on the terms of the investment, investors could lose all or a substantial portion of their investment based on the performance of the underlying asset. Investors could also lose their entire investment if the issuer becomes insolvent. UBS Financial Services Inc. does not guarantee

in any way the obligations or the financial condition of any issuer or the accuracy of any financial information provided by any issuer. Structured investments are not traditional investments and investing in a structured investment is not equivalent to investing directly in the underlying asset. Structured investments may have limited or no liquidity, and investors should be prepared to hold their investment to maturity. The return of structured investments may be limited by a maximum gain, participation rate or other feature. Structured investments may include call features and, if a structured investment is called early, investors would not earn any further return and may not be able to reinvest in similar investments with similar terms. Structured investments include costs and fees which are generally embedded in the price of the investment. The tax treatment of a structured investment may be complex and may differ from a direct investment in the underlying asset. UBS Financial Services Inc. and its employees do not provide tax advice. Investors should consult their own tax advisor about their own tax situation before investing in any securities.

Important Information About Sustainable Investing Strategies: Sustainable investing strategies aim to consider and incorporate environmental, social and governance (ESG) factors into investment process and portfolio construction. Strategies across geographies and styles approach ESG analysis and incorporate the findings in a variety of ways. Incorporating ESG factors or Sustainable Investing considerations may inhibit the portfolio manager's ability to participate in certain investment opportunities that otherwise would be consistent with its investment objective and other principal investment strategies. The returns on a portfolio consisting primarily of sustainable investments may be lower or higher than portfolios where ESG factors, exclusions, or other sustainability issues are not considered by the portfolio manager, and the investment opportunities available to such portfolios may differ. Companies may not necessarily meet high performance standards on all aspects of ESG or sustainable investing issues; there is also no guarantee that any company will meet expectations in connection with corporate responsibility, sustainability, and/or impact performance.

External Asset Managers / External Financial Consultants: In case this research or publication is provided to an External Asset Manager or an External Financial Consultant, UBS expressly prohibits that it is redistributed by the External Asset Manager or the External Financial Consultant and is made available to their clients and/or third parties.

USA: Distributed to US persons by UBS Financial Services Inc., UBS Securities LLC or UBS Swiss Financial Advisers AG, subsidiaries of UBS AG. UBS Switzerland AG, UBS Europe SE, UBS Bank, S.A., UBS Brasil Administradora de Valores Mobiliarios Ltda, UBS Asesores Mexico, S.A. de C.V., UBS SuMi TRUST Wealth Management Co., Ltd., UBS Wealth Management Israel Ltd and UBS Menkul Degerler AS are affiliates of UBS AG. **UBS Financial Services Inc. accepts responsibility for the content of a report prepared by a non-US affiliate when it distributes reports to US persons. All transactions by a US person in the securities mentioned in this report should be effected through a US-registered broker dealer affiliated with UBS, and not through a non-US affiliate. The contents of this report have not been and will not be approved by any securities or investment authority in the United States or elsewhere. UBS Financial Services Inc. is not acting as a municipal advisor to any municipal entity or obligated person within the meaning of Section 15B of the Securities Exchange Act (the "Municipal Advisor Rule") and the opinions or views contained herein are not intended to be, and do not constitute, advice within the meaning of the Municipal Advisor Rule.**

For country information, please visit ubs.com/cio-country-disclaimer-gr or ask your client advisor for the full disclaimer.

Version B / 2022. CIO82652744

© UBS 2022. The key symbol and UBS are among the registered and unregistered trademarks of UBS. All rights reserved.