

CHIEF INVESTMENT OFFICE

Capital Market Outlook

August 12, 2024

All data, projections and opinions are as of the date of this report and subject to change.

IN THIS ISSUE

Macro Strategy—Thematic Investing: Geopolitics, Defense and Security: S&P 500 Aerospace and Defense stocks have underperformed the broader S&P 500 Index since January 2023 despite an elevated and escalating geopolitical risk environment, including Russia/Ukraine and Israel/Hamas/Hezbollah conflicts, the related Red Sea escalation, and simmering U.S./China tensions. This week we discuss some potential drivers of Defense stocks' relative performance, including the geopolitical risk environment, the global defense budget, individual company operating performance, risk-on/risk-off sentiment, the evolving nature of war and the role that private and smaller companies are playing in the investable universe. We also include a list of long-term themes related to Geopolitics, Defense and Security, including artificial intelligence, quantum computing, robotics (drones), precision-strike capabilities, supply chain security, alternative fuels, biosecurity and information warfare.

Market View—Falling Global Fertility Rates and the Implications for Investors: As we introduced last month, we believe the decline in global fertility rates is one of the most important secular trends defining the global economy today. Why? With population growth comes labor force growth, earnings growth and, in turn, economic growth. It's no wonder that the flip side—population decline—is setting off alarm bells around the world, with the global fertility rate fast approaching the so-called “replacement rate,” or the rate required to sustain population levels.

Still, the future of population growth will vary dramatically by region and country, complicated by factors like immigration and Artificial Intelligence (AI)-driven innovation. This week, we detail the geographic nuances of fertility and why these matter for investors—with key leaders (notably the U.S. and India) and potential laggards (Europe and many parts of Asia) likely to emerge over the coming decades.

Thought of the Week—The Reports of the Death of the 60/40 Portfolio Are Greatly Exaggerated: Recent volatility validates the efficacy of Fixed Income as a diversifying asset class in a balanced portfolio. At current nominal and inflation-adjusted rates, Fixed Income continues to serve its function.

Given the massive rally in yields over the last year, we would be more cautious on expecting future price appreciation, and suggest investors focus on the steady and reliable yields that bonds afford. At the same time, cash yields are highly likely to decrease as the Federal Reserve (Fed) starts cutting rates, so extending duration to a reasonable strategic duration is still prudent.

MACRO STRATEGY ►

Jonathan Kozy
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MARKET VIEW ►

Ariana Chiu
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THOUGHT OF THE WEEK ►

Matthew Diczok
Managing Director and Head of Fixed Income Strategy

MARKETS IN REVIEW ►

Data as of 8/12/2024,
and subject to change

Portfolio Considerations

We maintain an overweight to Equities, with a preference for higher quality U.S. Large- and Small-caps, and still favor a significant allocation to bonds in a diversified portfolio.

We reaffirm our guidance within Fixed Income of slightly long duration and a preference for quality across the segments and curve.

Through these periods of episodic volatility, asset class diversification is working again when it is needed most.

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Thematic Investing: Geopolitics, Defense and Security

Jonathan Kozy, Managing Director and Senior Macro Strategist

Global defense spending is at an all-time high, while geopolitical risk is at best simmering if not boiling over with ongoing conflicts between Ukraine/Russia, Israel/Hamas/Hezbollah, the related Red Sea hot spot, and persistent U.S./China tensions, to name a few. But U.S. Large Capitalization Defense stocks have underperformed the broader S&P 500 since early 2023 and have been on a medium-term downtrend since the U.S. military announced its withdrawal from Afghanistan in 2020 (Exhibit 1). Below we try to make sense of this by first looking at the shorter-term drivers of Defense stocks and then taking a dive into long-term themes.

The Budget: Get your pie straight. Global defense spending at an all-time high is a bit misleading as a gauge of the backdrop for U.S. and European Defense companies. Global spending totaled \$2.4 trillion in 2023, according to SIPRI¹, up 7% year-over-year (YoY), but that figure does not represent the accessible market for Western defense companies. Excluding Russia, China and Iran leaves the accessible military expenditure market near \$2.0 trillion.

In the U.S., absent supplemental war spending, the U.S. Fiscal Year (FY) 2025 budget is lower in real terms, subject to the Fiscal Responsibility Act 1% growth cap. This has likely been one source of sentiment headwind for defense stocks with pessimistic overtones related to the growing debt stock and isolationist rhetoric from existing or potential policymakers.

European defense spending could have upside and will likely benefit U.S. Defense companies with foreign sales exposure. NATO² expects 23 of its 32 members to meet the 2% of gross domestic product (GDP) defense spending target this year. The conflict in Eastern Europe probably increases the urgency, but both the U.S. and Europe face significant headwinds from economic growth slowing and existing debt burdens.

Threats drive the budget. We think the geopolitical backdrop and threats drive budgeting and spending and there are plenty for the U.S. and NATO to consider. We think supplemental spending related to Ukraine and Israel will continue to bolster actual spend if the threats persist, pushing it closer to a real increase in defense spending. The bigger upside for the U.S. budget comes in the form of a proposed \$6 trillion increase in defense spending (over the next decade), as presented by the potential future chairman of the Senate Armed Services Committee. The goal of the plan is to recognize the current threat landscape and increase readiness via “a generational investment in the U.S. military.” There is a growing chorus of policymakers pushing for the U.S. to raise its defense spending as a share of GDP.

You can have my old stuff because my new stuff is cooler. First, for many U.S. defense contractors, current conflicts have created a record backlog, and companies are sending older equipment to hotspots and making newer, better versions to refresh inventories. The donate and restock cycle is increasingly positive for defense stocks, as it accelerates modernization. Second, the world is seeing the changing nature of war (more drone usage, for example), but not necessarily seeing the most advanced equipment in use. This is also likely a source of caution on the Large-cap Defense stocks that are often owners of the most expensive platforms.

What about Small-caps and the private market? Because of the nature of current conflicts where long-cycle, investment-heavy platforms are not as prevalent, smaller and sometimes private companies are active. In stark contrast to the broader equity market performance trends, Small-cap Defense stocks have outperformed Large-cap Defense stocks the last few years. For example, a private legacy drone maker and defense technology startup company recently defeated Large-cap, public defense contractors for contracts to make prototypes for the Collaborative Combat Aircraft. All this just encourages investors to pursue diversified exposure to Defense across market caps, private markets and allies.

Company Operating Performance. What did we learn from Q2 earnings? To be brief, U.S. Large-cap Defense companies reporting Q2 earnings, on balance, have beat on revenue and earnings and raised guidance on the back of tactical equipment sales. Most companies are reporting record order backlog, and many cite stronger growth in tactical

Investment Implications

We are constructive on Aerospace and Defense Equities over the long-term and believe the best exposure to this theme is via leaders in AI, quantum computing, robotics, drones, biosecurity, cybersecurity, in addition to nuclear and other alternative energy options.

¹ Stockholm International Peace Research Institute.

² North Atlantic Treaty Organization.

equipment sales versus commercial segments. The guidance has provided a near-term boost to relative performance.

Risk-on/Risk-off Sentiment: Playing defense with Defense stocks: With record backlogs, more upside than downside on the budget, and long cycles, it could be that some of Large-cap Defense stocks underperformance can be attributed to non-cyclical properties, and this has largely been a risk-on market. For example, when equity volatility spiked in late July, and the S&P 500 had a few down days, defense stocks outperformed. From this perspective, Defense stocks could offer some non-cyclical diversification benefit.

Exhibit 1: S&P 500 Defense Stocks Have Underperformed Since Afghanistan Withdrawal.



Gray bars represent recessionary periods. Source: Standard and Poor's/Haver Analytics. Data as of July 24, 2024. **Indexes are unmanaged and do not take into account fees or expenses. It is not possible to invest directly in an index. Past performance is no guarantee of future results.**

Thematic Investing: Exhibit 1 shows that from a long-term perspective, S&P 500 Aerospace and Defense Stocks tend to outperform. We think the themes below will support a resumption of this trend. But investing in themes related to Defense and Security requires an all-sector approach. For example, Technology, Communication services, Energy and Healthcare sectors all feature companies linked to national security-related themes like AI, biosecurity and information warfare.

- **AI:** A key military objective is to optimize the decision-making cycle at speed and scale. Optimizing the OODA loop (observe, orient, decide, act) for the military is a priority, and the application of technology to optimize decision-making is pervasive and will be a key determinant of leaders and laggards across sectors.
- **Quantum Computing:** Quantum computing will be needed to meet the most complex product demands of the Department of Defense. There will likely only be only a small number of companies that are able to meet this demand.
- **Robotics (Drones and Anti-Drone Technology):** In our view, a growing share of global military forces will be robotic in the decades to come. This includes unmanned aerial vehicles, unmanned sea/undersea vehicles, crewless tanks, etc. A significant robot force requires advanced AI systems. Anti-drone technology likely includes directed energy like those being evaluated for Israel's Iron Dome.
- **See and Strike with Precision at Long-Range (and unmanned):** This theme includes space, precision munitions, hypersonic technology, nuclear triad programs and technology enablers like microtechnology/sensors required for precision strikes.
- **Securing and Advancing Manufacturing Supply Chains:** Secure supply chains like critical minerals while minimizing cost inefficiencies. 3D Printing for enhanced capabilities and increased readiness.
- **Energy Security and Alternative fuels:** In the defense space, alternative fuels will be used for sustainment, but advanced energy solutions might also be needed for data centers and compute farms to drive AI.
- **Biosecurity:** Virus detection, big data to track viruses, rapid and mass-produced vaccination, engineered and synthetic biology, including for agriculture.
- **Information warfare** including cybersecurity, secure communications, misinformation and disinformation.

Falling Global Fertility Rates and the Implications for Investors

Ariana Chiu, Wealth Management Analyst

The world is concerned about Exhibit 2A. Over the last 70 years, the global fertility rate has more than halved, falling from nearly 5 births per female in 1950 to just 2.3 in 2023. According to the United Nations' (UN) latest estimates, one in four people worldwide resides in a country whose population has already peaked. In other words, it's only a matter of time before global fertility dips below the so-called "replacement rate," or the birth rate required to sustain population levels.

The anticipated consequences of demographic decline are manifold, ranging from shrinking workforces to higher deficits to slower economic growth, to name a few. Importantly, though, impacts won't be evenly distributed. While fertility rates are falling globally, the past, present and future of population growth varies dramatically by region and country. Below, we detail some of these geographic nuances and what they mean for investors.

Asia: At the forefront of the globe's population decline is East Asia, where falling fertility rates have set off alarm bells around the region. In 2023, South Korea's notoriously low birth rate fell further to 0.72—the lowest ever for a country in peacetime³ and a government-deemed "national emergency." Japan's population declined for the 15th consecutive year in 2023.⁴ Meanwhile, China's baby recovery since eliminating its one-child policy in 2015 has been abysmal, with annual births having fallen by more than half as of 2023.⁵

While events have catalyzed periods of depopulation in the past (think war, famine, etc.), for key countries in Asia, it's different this time (think better standards of living, shifting priorities among young women, and soaring childrearing costs). Government-sponsored efforts to incentivize marriage, reward childbearing, and boost immigration have yet to move the needle. For many Asian states, the macro stakes could not be higher. Stagnant or declining population growth ultimately entails a smaller labor force, lower productivity, higher pension and healthcare costs, and depressed consumption—all of which risk weaker company earnings and economic growth.

Outside of East Asia, the population picture appears less grim. India, having already surpassed China as the most populous country in the world, contains a working-age population projected to increase well into the 2040s.⁶ In the next 30 years, Pakistan's population will exceed that of the U.S. And within Southeast Asia, while countries like Singapore and Thailand are ageing rapidly, others including Indonesia and the Philippines will skew young for decades to come.

Europe: Immigration has supported recent population growth in the European Union (EU), driven in part by the ongoing war in Ukraine. However, immigration won't be enough to stave off the region's increasingly ageing population. Indeed, the EU's working-age population peaked in size 15 years ago—and is set to decline by another 18% between 2024 and 2050 (Exhibit 2B).³ More concerning still: by the end of this decade, the contribution of labor to GDP growth in the EU is expected to turn negative.⁷

Decades of low birth rates remain a headwind to the region. More women across Europe have chosen to forego having children, with the incidence of childlessness at least doubling in Italy, Spain, Portugal, Poland, and others across generations.⁸ Perhaps it's unsurprising, then, that EU births in 2023 registered below levels not forecast for another two decades, according to Eurostat data.

Of course, Europe's low fertility is not all bad news. It's a manifestation of better health, education and economic opportunities, particularly for women. Yet if the performance of Germany, Europe's largest economy, is any indication, fewer births and more retirees ultimately translate into worker shortages, sluggish productivity growth and deteriorating fiscal positions. Looking ahead, economic growth across Europe will depend on a country's

Investment Implications

Record-low fertility rates and rapidly ageing populations have driven social, economic and fiscal stress globally. We believe investors can benefit from allocating assets toward better demographic growth stories, namely U.S. Equities with near-term support from healthy immigration, consumer fundamentals, and record-high labor force participation.

³ "East Asia's Coming Population Collapse," Foreign Affairs, May 2024.

⁴ Japan's Internal Affairs Ministry.

⁵ Calculated from World Population Prospects 2024, United Nations, July 11, 2024.

⁶ Working-age population refers to population aged 15-64.

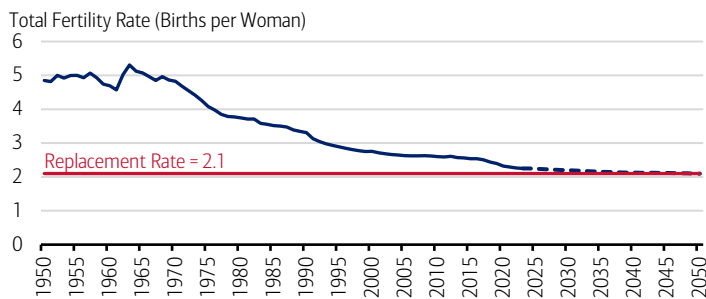
⁷ "2024 Ageing Report," European Commission, April 2024.

⁸ Compares fertility of women born in 1935 and 1975. See "Society at a Glance 2024," Organisation for Economic Co-operation and Development, June 20, 2024.

ability to retain ageing workers in the labor force, spur female labor force participation, assimilate immigrants, and invest in innovation.

Exhibit 2: Amid the Decline in Global Fertility Rates, Leaders and Laggards Emerge.

A) The Global Fertility Rate Has Fallen



B) Who Leads in the Demographic Olympics?

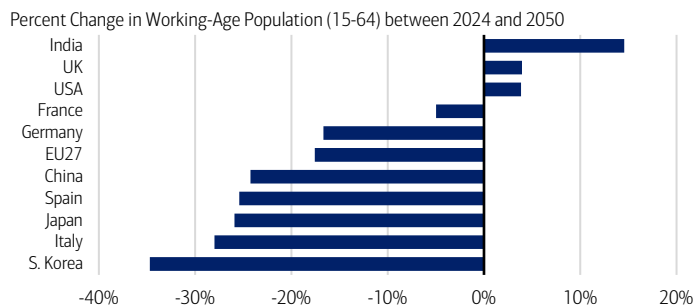


Exhibit 2A) Dotted line = projection. Source: UN World Population Prospects 2024. Data as of August 2024. Exhibit 2B) Source: UN World Population Prospects 2024. Data as of August 2024.

Africa: When it comes to population growth, Africa remains well ahead of the rest of the world, still boasting an aggregate fertility rate north of 4 births per female. Last year, 35% of global births took place in Africa, nearly double the percentage in 1990.³ By 2050, UN projections suggest the continent will be home to one out of every four people on Earth.

Africa's advantage, in other words, lies in its expanding—and young—population. Less than 4% of the continent's population is aged 65 or older, compared to 20% in Europe, 18% in North America, and 10% in Asia.³ Unlike most parts of the world, Africa contains a massive surplus of potential future workers and consumers—nearly 700 million people under the age of 18, to be sure, and set to expand for decades to come.

Yet it remains to be seen how the proverbial demographic dividend will play out in Africa. On the one hand, improvements in education and technology can help mobilize youth, driving labor force participation and more sustainable economic growth. More likely, however, a burgeoning young population may complicate already persistent poverty, political instability, and climate costs.

The U.S.: As we detailed last month, births in the U.S. fell to a record low of 3,591,328 in 2023, down 2% from the prior year. Better education, easily available contraception and career opportunities for women have contributed to America's declining fertility rate, which reached 1.62 last year. Another important driver has been a sharp decline in teen births in the U.S., with teen births accounting for just 3.9% of total births in 2023, down from 17.3% in 1970 per the Centers for Disease Control and Prevention.

At the same time, like developed countries across Asia and Europe, the U.S. is facing an actively ageing population. According to the Census Bureau, the population at or above the age of 65 in the U.S. grew from 2010-2020 at its fastest pace since 1880-1890. As such, core outlays of the U.S. government, including Medicare, Medicaid and Social Security, are expected to only expand from here.

Still, there's good news. America's workforce remains robust, particularly when compared to the country's wealthy counterparts. UN estimates suggest the working-age population in the U.S. won't begin to decline for another 40+ years, thanks in part to healthy immigration. Additional near-term supports include healthy spending among baby boomers and a female labor force participation rate which remains at all-time highs.

Investment Implications: Babies Matter. We believe the gradual and glacial global population unwind is one of the most important secular trends of today. The one-two punch of record-low fertility rates and rapidly ageing populations has triggered social, economic and fiscal stress around the world. As Paul Morland notes in his book, "we are seeing the birth pangs of a new epoch, but it's an epoch without birth pangs."⁹ This unfolding new era will create leaders (notably the U.S. and India, in our opinion) and potential laggards (Europe and many parts of Asia). And remember: A nation's population is a key determinant of its labor force, which, in turn, is a key driver of economic growth and corporate earnings. In terms of portfolio construction, asset allocation in the years ahead will likely tilt toward the more demographically enabled, and toward labor-enhancing sectors like technology and AI-driven innovation.

⁹ "No One Left: Why the World Needs More Children", Paul Moreland, July 2024.

Equities

	Total Return in USD (%)			
	Current	WTD	MTD	YTD
DJIA	39,497.54	-0.6	-3.3	6.0
NASDAQ	16,745.30	-0.2	-4.8	12.0
S&P 500	5,344.16	0.0	-3.2	13.0
S&P 400 Mid Cap	2,935.55	-0.4	-5.2	6.5
Russell 2000	2,080.92	-1.3	-7.7	3.5
MSCI World	3,447.75	0.0	-3.4	9.8
MSCI EAFE	2,283.64	-0.3	-4.0	4.0
MSCI Emerging Markets	1,063.43	0.3	-1.9	5.8

Fixed Income†

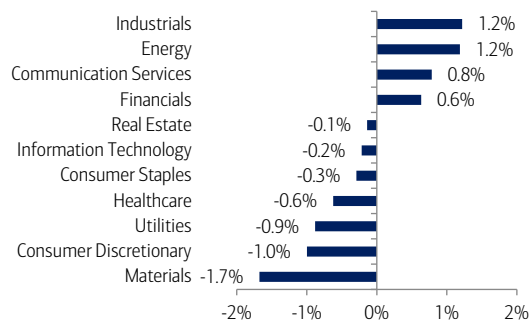
	Total Return in USD (%)			
	Current	WTD	MTD	YTD
Corporate & Government	4.41	-0.79	0.70	2.26
Agencies	4.42	-0.43	0.53	2.87
Municipals	3.49	-0.44	0.51	1.01
U.S. Investment Grade Credit	4.51	-0.82	0.74	2.36
International	5.08	-0.76	0.43	2.32
High Yield	7.66	0.25	-0.05	4.52
90 Day Yield	5.21	5.17	5.28	5.33
2 Year Yield	4.05	3.88	4.26	4.25
10 Year Yield	3.94	3.79	4.03	3.88
30 Year Yield	4.22	4.11	4.30	4.03

Commodities & Currencies

	Total Return in USD (%)			
	Current	WTD	MTD	YTD
Commodities				
Bloomberg Commodity	226.55	0.9	-0.8	0.0
WTI Crude \$/Barrel††	76.84	4.5	-1.4	7.2
Gold Spot \$/Ounce††	2431.32	-0.5	-0.7	17.9

	Total Return in USD (%)			
	Current	Prior Week End	Prior Month End	2022 Year End
Currencies				
EUR/USD	1.09	1.09	1.08	1.10
USD/JPY	146.61	146.53	149.98	141.04
USD/CNH	7.17	7.16	7.23	7.13

S&P Sector Returns



Sources: Bloomberg; Factset. Total Returns from the period of 8/5/2024 to 8/9/2024. †Bloomberg Barclays Indices. ††Spot price returns. All data as of the 8/9/2024 close. Data would differ if a different time period was displayed. Short-term performance shown to illustrate more recent trend. **Past performance is no guarantee of future results.**

Economic Forecasts (as of 8/9/2024)

	2024E	Q1 2024A	Q2 2024A	Q3 2024E	Q4 2024E	2025E
Real global GDP (% y/y annualized)	3.2	-	-	-	-	3.3
Real U.S. GDP (% q/q annualized)	2.7	1.4	2.8	2.5	2.0	2.2
CPI inflation (% y/y)	2.9	3.2	3.2	2.7	2.5	2.2
Core CPI inflation (% y/y)	3.4	3.8	3.4	3.2	3.1	2.7
Unemployment rate (%)	4.0	3.8	4.0	4.1	4.1	4.1
Fed funds rate, end period (%)	4.88	5.33	5.33	5.13	4.88	3.88

The forecasts in the table above are the base line view from BofA Global Research. The Global Wealth & Investment Management (GWIM) Investment Strategy Committee (ISC) may make adjustments to this view over the course of the year and can express upside/downside to these forecasts. Historical data is sourced from Bloomberg, FactSet, and Haver Analytics. **There can be no assurance that the forecasts will be achieved. Economic or financial forecasts are inherently limited and should not be relied on as indicators of future investment performance.**

A = Actual. E/* = Estimate.

Sources: BofA Global Research; GWIM ISC as of August 9, 2024.

Asset Class Weightings (as of 8/6/2024)

Asset Class	CIO View		
	Underweight	Neutral	Overweight
Global Equities	●	●	●
U.S. Large Cap Growth	●	●	●
U.S. Large Cap Value	●	●	●
U.S. Small Cap Growth	●	●	●
U.S. Small Cap Value	●	●	●
International Developed	●	●	●
Emerging Markets	●	●	●
Global Fixed Income	●	●	●
U.S. Governments	●	●	●
U.S. Mortgages	●	●	●
U.S. Corporates	●	●	●
International Fixed Income	●	●	●
High Yield	●	●	●
U.S. Investment-grade Tax Exempt	●	●	●
U.S. High Yield Tax Exempt	●	●	●
Alternative Investments*			
Hedge Funds			
Private Equity			
Real Assets			
Cash			

CIO Equity Sector Views

Sector	CIO View		
	Underweight	Neutral	Overweight
Energy	●	●	●
Healthcare	●	●	●
Consumer Discretionary	●	●	●
Industrials	●	●	●
Information Technology	●	●	●
Communication Services	●	●	●
Financials	●	●	●
Real Estate	●	●	●
Utilities	●	●	●
Materials	●	●	●
Consumer Staples	●	●	●

*Many products that pursue Alternative Investment strategies, specifically Private Equity and Hedge Funds, are available only to qualified investors. CIO asset class views are relative to the CIO Strategic Asset Allocation (SAA) of a multi-asset portfolio. Source: Chief Investment Office as of August 6, 2024. All sector and asset allocation recommendations must be considered in the context of an individual investor's goals, time horizon, liquidity needs and risk tolerance. Not all recommendations will be in the best interest of all investors.

Index Definitions

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S&P 500 Index is a market-capitalization-weighted index that is widely regarded as the best single gauge of large-cap U.S. equities. The index includes 500 leading companies and covers approximately 80% of available market capitalization.

Bloomberg U.S. Aggregate Index is a broad base, market capitalization-weighted bond market index representing intermediate term investment grade bonds traded in the United States. Investors frequently use the index as a stand-in for measuring the performance of the US bond market.

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Alternative investments are intended for qualified investors only. Alternative Investments such as derivatives, hedge funds, private equity funds, and funds of funds can result in higher return potential but also higher loss potential. Changes in economic conditions or other circumstances may adversely affect your investments. Before you invest in alternative investments, you should consider your overall financial situation, how much money you have to invest, your need for liquidity and your tolerance for risk.

Nonfinancial assets, such as closely-held businesses, real estate, fine art, oil, gas and mineral properties, and timber, farm and ranch land, are complex in nature and involve risks including total loss of value. Special risk considerations include natural events (for example, earthquakes or fires), complex tax considerations, and lack of liquidity. Nonfinancial assets are not in the best interest of all investors. Always consult with your independent attorney, tax advisor, investment manager, and insurance agent for final recommendations and before changing or implementing any financial, tax, or estate planning strategy.

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