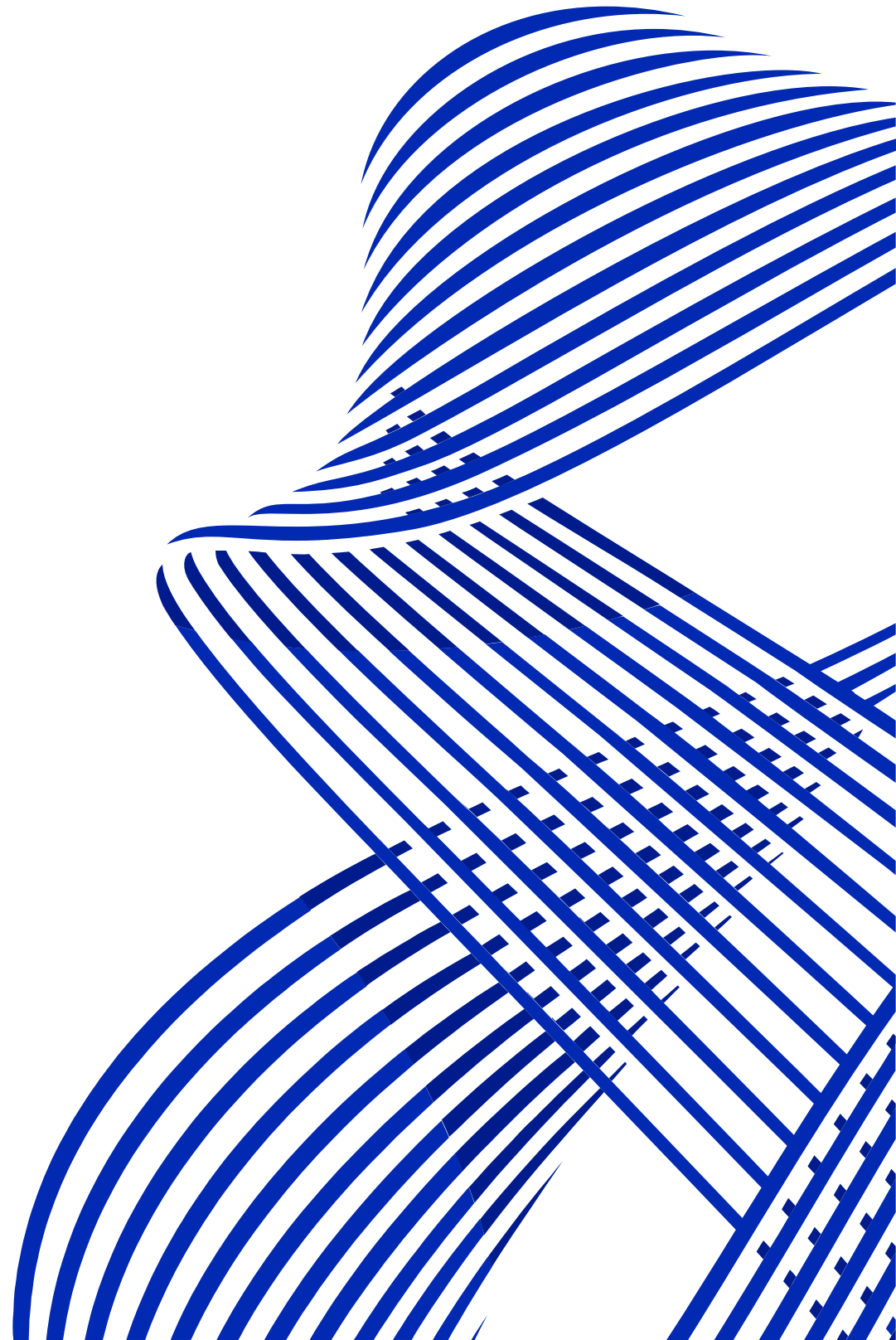


KKR

PRIVATE WEALTH
Investment Playbook

MARCH 2023



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Quarterly Takeaways

- 01 KKR sees the current global banking crisis as emanating from **market uncertainty** surrounding unrealized losses, uninsured deposits, and commercial office exposure on bank balance sheets. **More banking oversight** may be needed, and **global central banks may continue to increase policy rates**, albeit following a shallower and/or truncated path.
- 02 The crisis reaffirms our view that we have entered a **new macroeconomic regime** characterized by higher levels of inflation, higher rates, heightened geopolitical risks and slower, though positive, real economic growth.
- 03 Importantly, amid elevated inflation, we expect **real rates to remain low**.
- 04 To achieve return goals, investors are increasingly leaning into the **diversification, downside protection, illiquidity premium, and inflation hedging benefits provided by Alternatives**.
- 05 In the current market, there are more opportunities for private lenders as banks pull back lending. Against that backdrop **Private Credit and Real Estate Credit** returns are compelling, especially given downside protection benefits. Investors should also consider the current value offered in **Liquid Credit**, which can be used as a transitional bridge to a Private Credit allocation.
- 06 We believe **Infrastructure and select Real Estate** investments can support investors to protect purchasing power in a higher inflation environment.
- 07 **Private Equity** relative outperformance is greatest when public market volatility is highest, as a result, capital market dislocation may present significant opportunities.
- 08 We think investors should prioritize **thematic exposure** to climate change mitigation, the energy transition, shifting demographics, the housing supply/demand imbalance, and ‘the security of everything’.

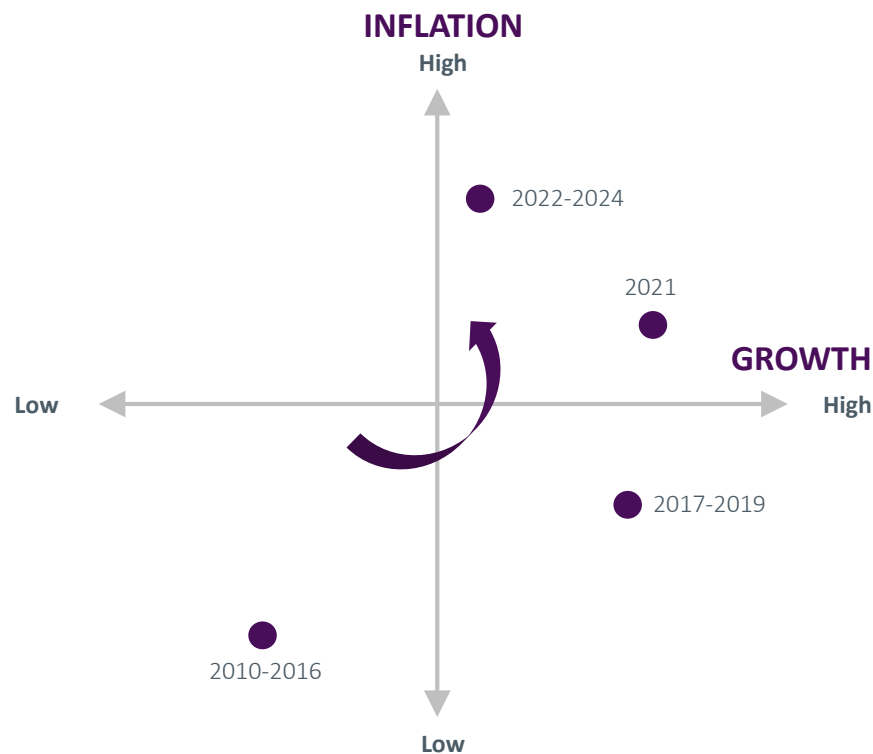


Outlook for Global Growth

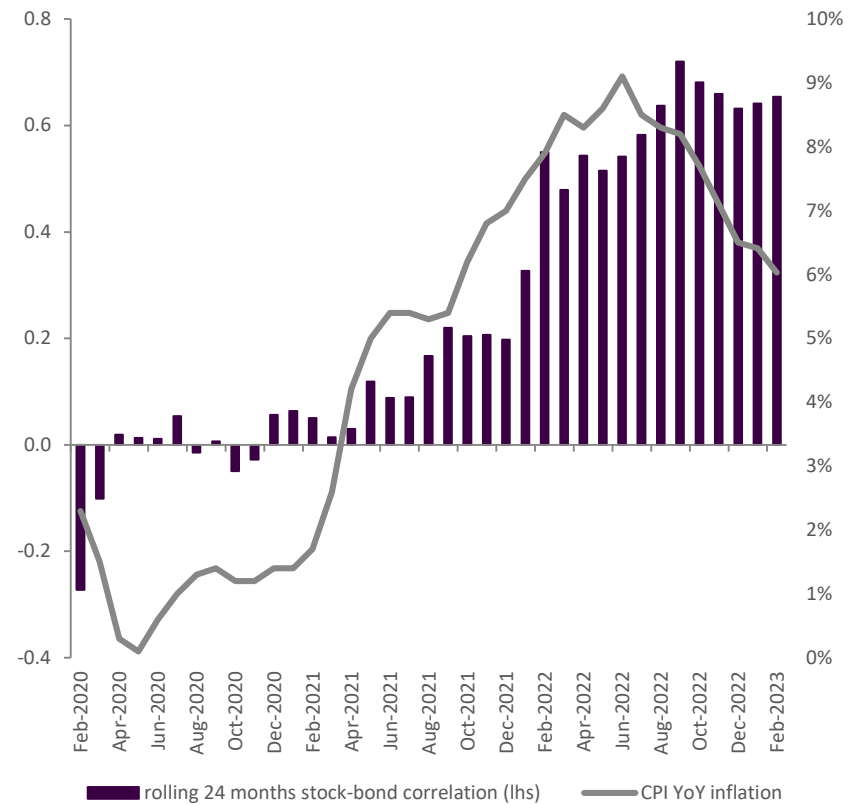
We Believe We Have Entered a New Regime for Investing

Henry McVey has asserted that in this higher inflation, slower growth macroeconomic regime investors should consider shifts to their existing asset allocation.

A Regime Change is Occurring

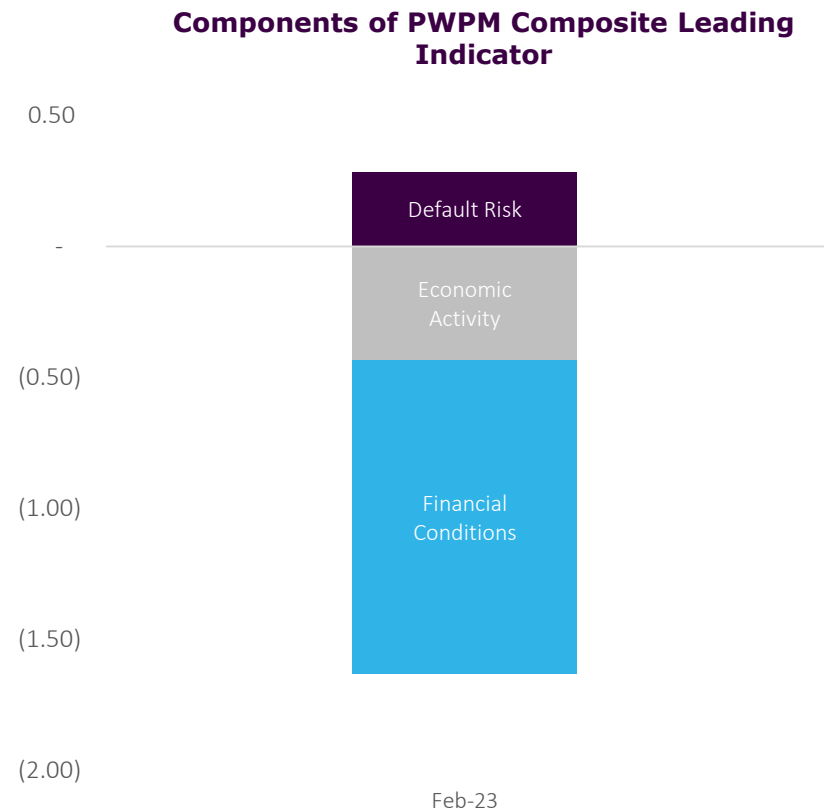
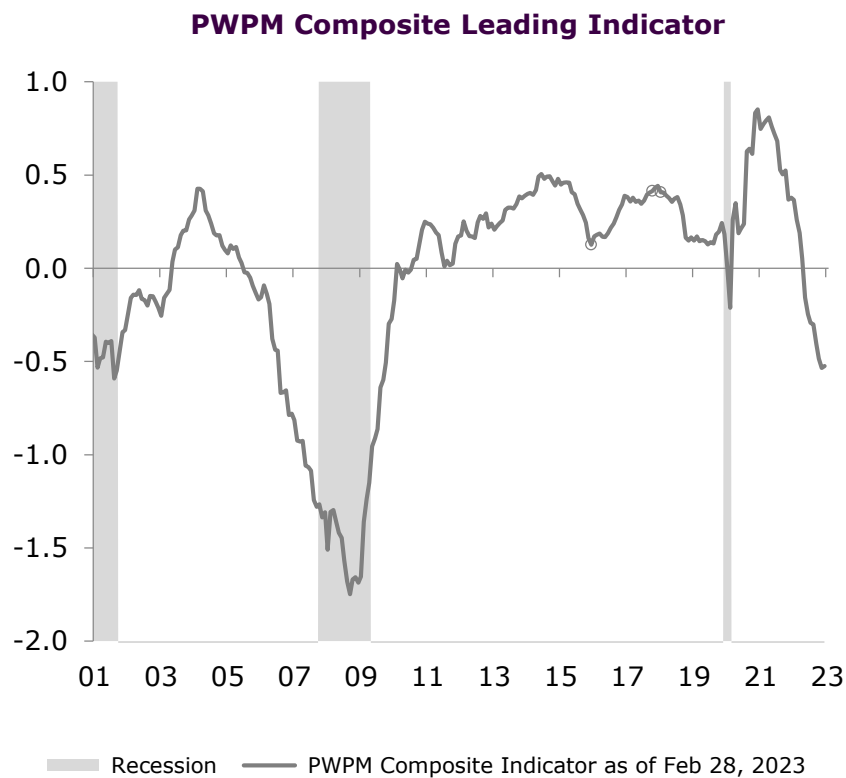


The Relationship Between Stocks and Bonds is Changing in This Inflationary Environment



Our Proprietary Cycle Indicator Suggests A Mild US Downturn

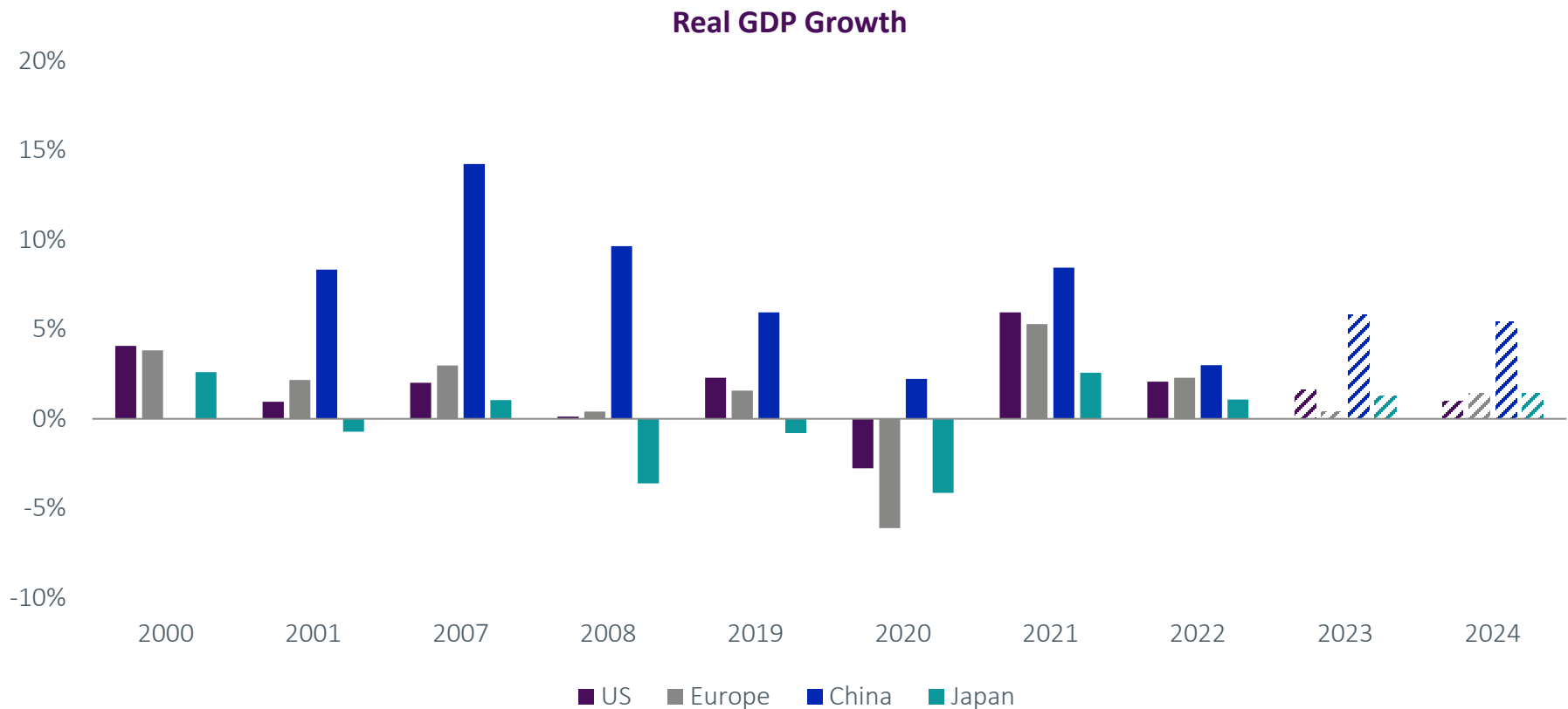
- Our Proprietary Indicator Suggests That Tight Financial Conditions Will Likely Lead To a Mild US Downturn Over The Next 12 Months



Note: PWPM refers to KKR's PWP Macro team. Data updated as at 02/28/2023. Source: KKR PWP Macro analysis. No representation is made that the trends depicted or described above will continue.

But the Global Economic Cycle is Asynchronous

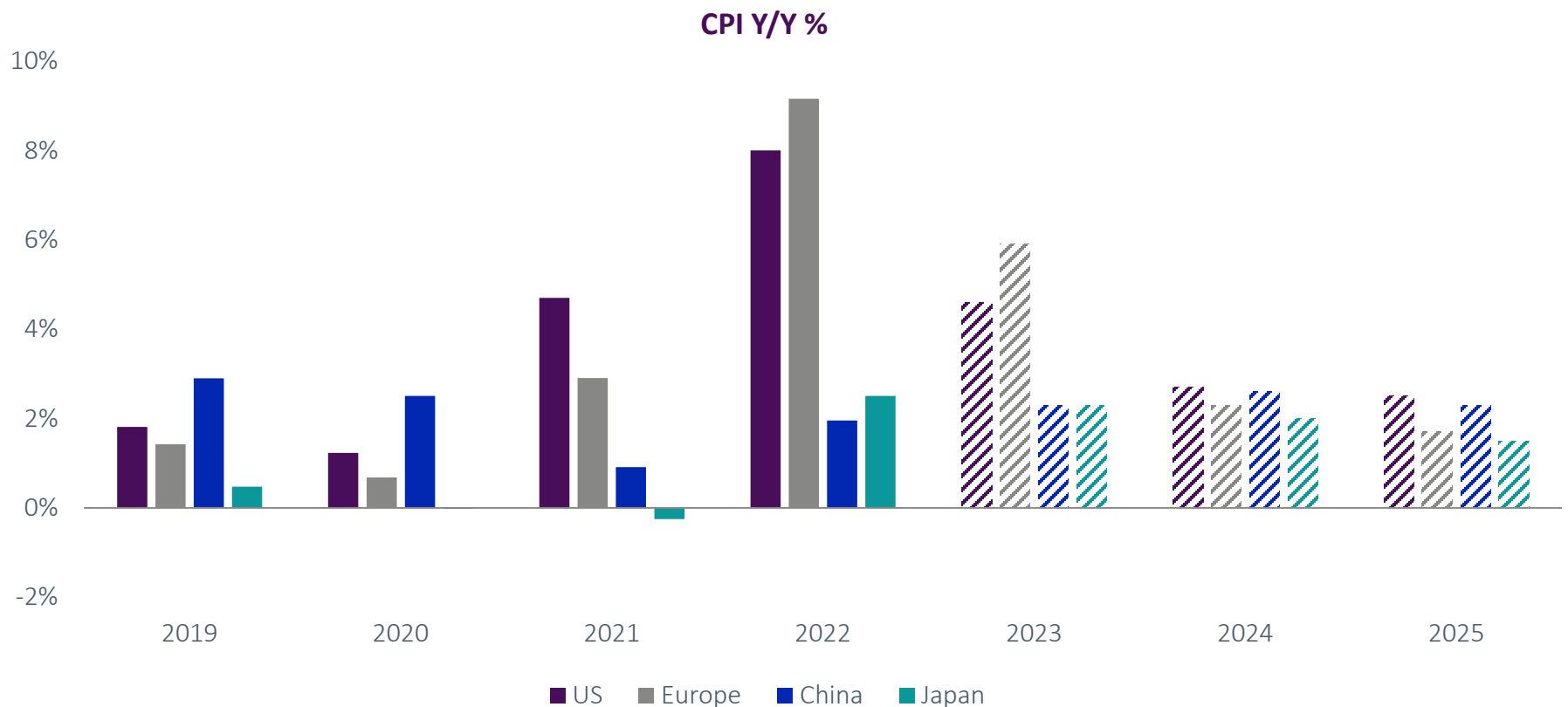
- Our Global Macro team expects inflation-adjusted growth in Asia to hold up better than that in the US and Europe.
- The energy crisis in Europe and tightening financial conditions in the US are weighing on growth.
- Reopening policies in a variety of Asian countries should support growth.



Note: KKR GMAA estimates for US, Euro Area, China, and Japan. Data as at 3/01/2023. Source: Haver, Bloomberg, IMF, KKR GMAA analysis. No representation is made that the trends depicted or described above will continue.

We Predict Inflation to Remain Above Pre-Crisis Averages

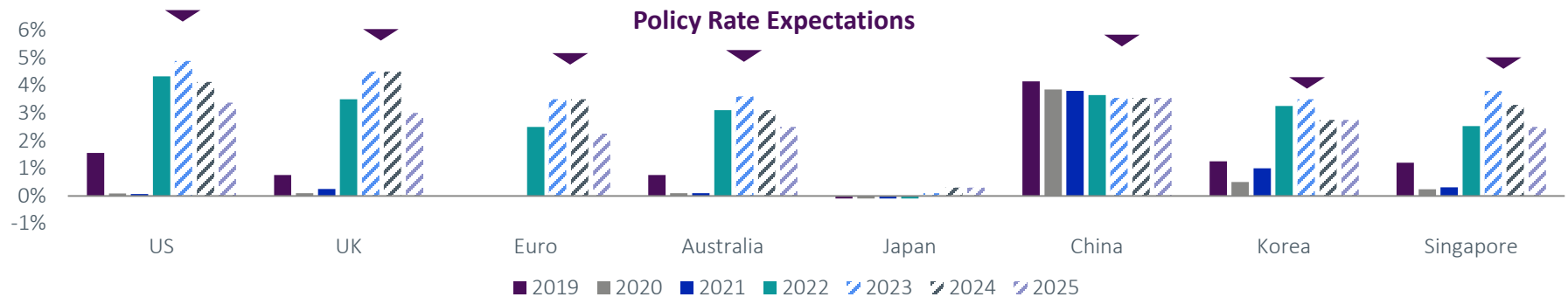
- Our Global Macro team expects inflation to fall this year in the US & Europe, but the path will be volatile. Overall, we expect inflation is likely to remain elevated, contrary to market optimism.
- The structural labor shortage, insufficient housing supply, ongoing geopolitical conflicts and the energy transition are drivers of elevated inflation.
- Japan is also now transitioning from a long period of deflation to one of inflation, led by labor shortages and higher wages.



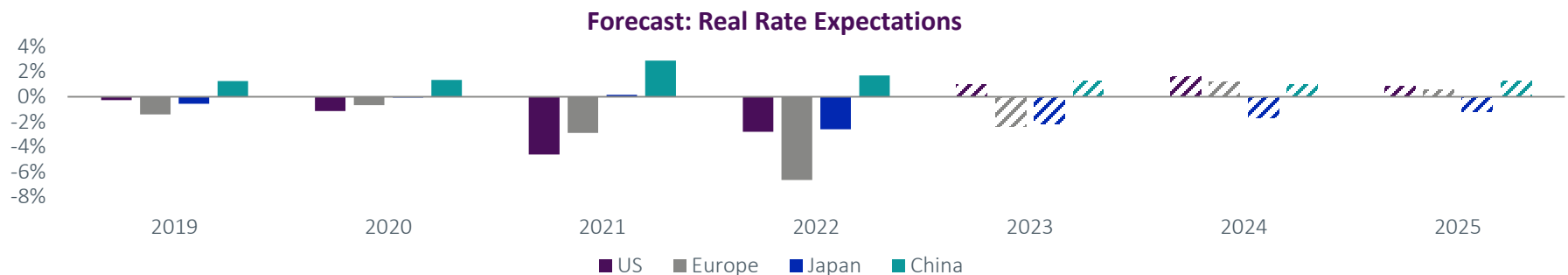
Data as at 3/01/2023. Source: Haver, KKR GMAA analysis.
No representation is made that the trends depicted or described above will continue.

Our Global Macro Team Predicts Policy Rates Will Peak This Year, But Real Rates Should Remain Low

- Contrary to market expectations, policy rates will continue to rise this year as central banks strive to reduce inflation. Central banks may tighten more than they anticipate because of persistent inflation.
- This year, we expect the BOE to become the most hawkish and the BOJ to continue to normalize policy rates amidst elevated inflation, albeit from a low base.
- China may be unlikely to reduce its policy rates given the anticipation of higher inflation, but instead will use structural programs to support the property market, for example.



- Importantly, we expect real yields to remain low, which is the focus for investment.
- A low or negative inflation adjusted interest rate encourages more risk taking as investors seek to generate a return that exceeds the inflation rate.

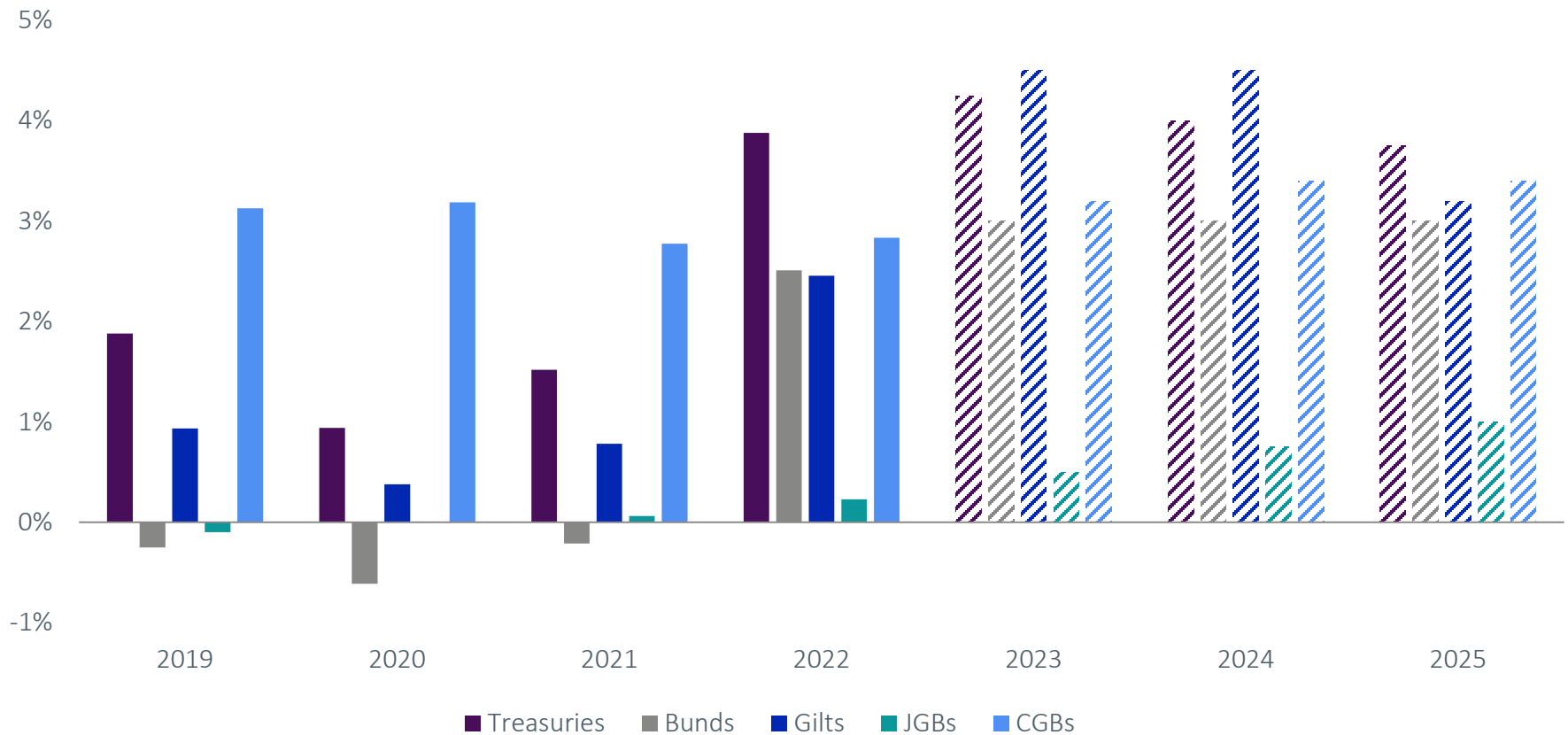


Note: US is Fed Funds, UK is the UK Official Bank Rate, Euro is the Euro-Area Main Refinancing Operations Minimum Bid Rate, Australia is the Central Bank Policy Rate, China is the LPR 1yr, Japan is the Central Bank Policy Rate, Korea is the Central Bank Policy Rate, and Singapore is the Singapore overnight Rate Average. Real Rates are proxied by CPI in the respective region subtracted from the respective policy rate. Data as at 1/06/2023. Source: Bloomberg, Haver, KKR GMAA analysis. No representation is made that the trends depicted or described above will continue.

10-year Government Bond Yields To Remain Higher Across Most Regions

- Long Term Bond Yields Have Now Surpassed Pre-Pandemic Levels, Which Has Made Credit – Offering Comparable Returns With Less Downside Risk – More Compelling

10YR Government Bond Yields

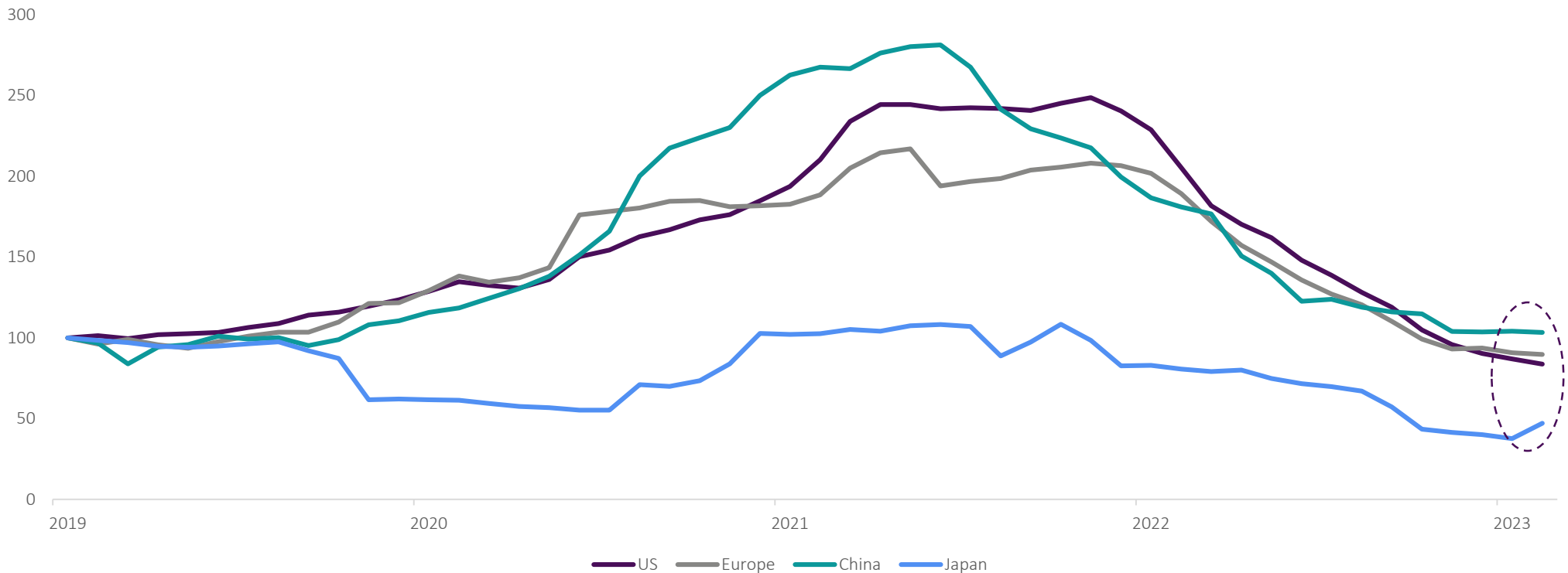


US data as at 3/01/2023. All other as at 12/14/2022. Source: KKR GMAA analysis. No representation is made that the trends depicted or described above will continue.

A Bifurcation in Credit Availability Exists Across Regions

- Tighter capital standards and higher loan loss reserve requirements are forcing financial institutions to hold more capital and issue fewer loans leading to a sharp decline in capital markets liquidity – especially for speculative borrowing.
- Liquidity is very constrained in the US, while capital markets in China have started to recover.
- China stepped in to reduce leverage in the property sector in late 2021, then reversed the policy in October 2022, and is now renewing capital markets support for developers.

Indexed Capital Markets Liquidity (TTM) (IPO, HY Bond, Leveraged Loan Issuance)

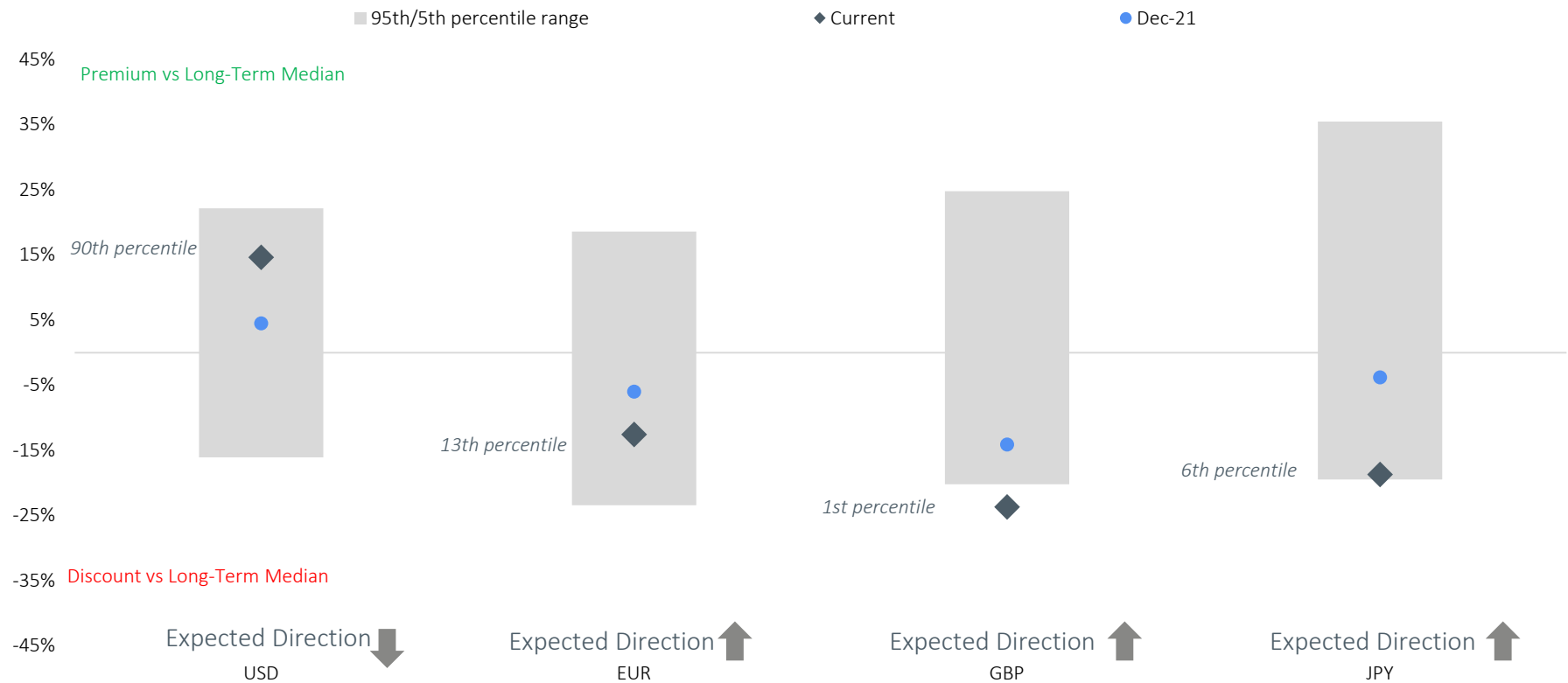


Data as at 2/28/2023. Source: Bloomberg, KKR GMAA, KKR PWP Macro analysis. No representation is made that the trends depicted or described above will continue.

Fed Tightening Has Driven The Dollar To Peak Levels

- Driven by the rapid pace of Fed tightening in 2022, as higher yields attracted global investors, the USD surged last year.
- Dollar softening/stabilization should follow the peak in Fed rates, supporting financial conditions globally.

G4 FX Premium (Discount) to Long-Term Median

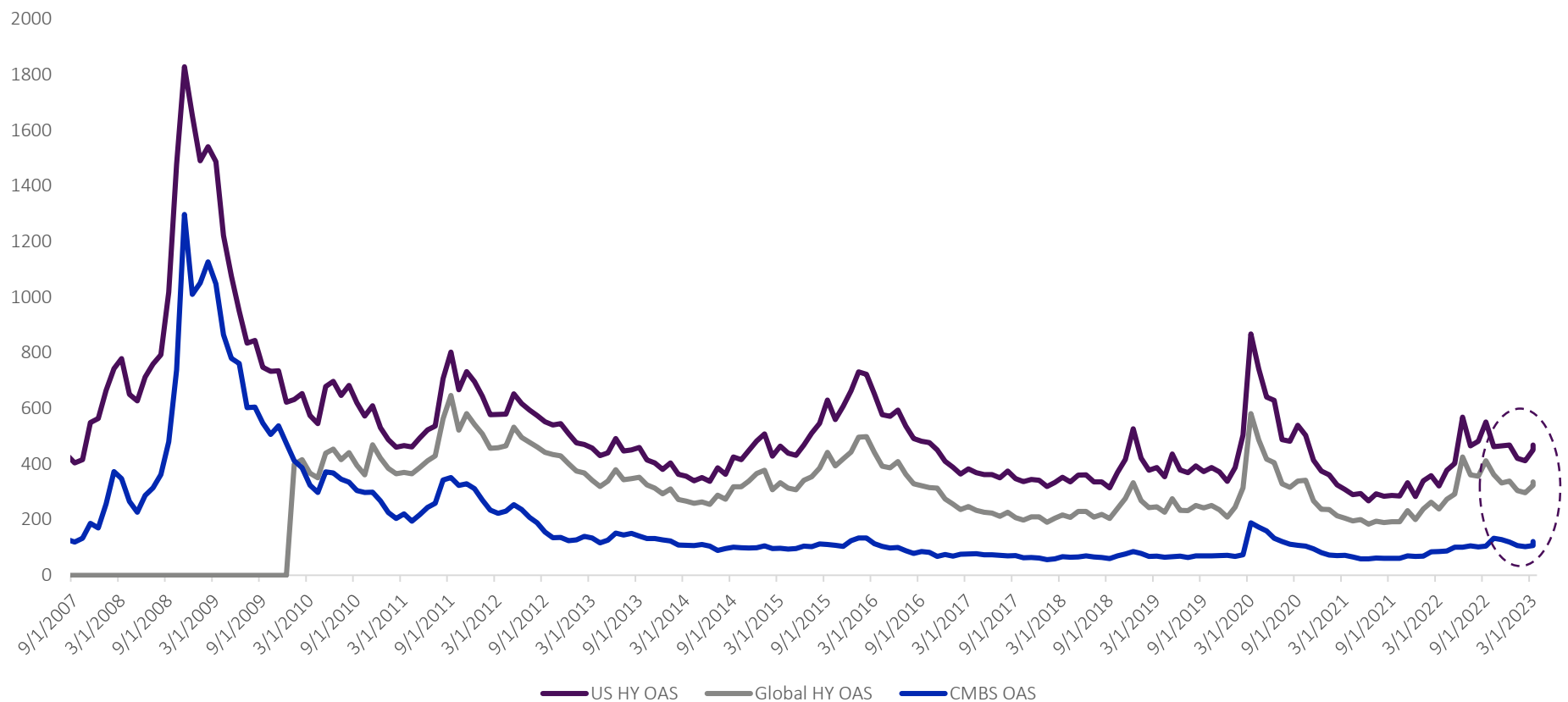


Note: Analysis based on monthly data from 1990 to present, Data as at 2/28/2023. Source: KKR GMAA analysis, Bloomberg

Notably Spreads Have Tightened Since The Start of The Year, Even Taking The Banking Crisis into Account

- Credit spreads have widened only to 4Q22 levels, which were not sufficient to stem inflation then
- Until the most recent dislocation, investors had generally become more comfortable taking on risk as energy prices peaked, the pace in the tightening of financial conditions had eased and 4Q earnings growth has held up better than expected





















OAS Comparison



Note: OAS-to-Treasury for all except Global HY where OAS-to-Swap is used. Data as at 3/14/2023. Source: Bloomberg, KKR PWP Macro analysis. No representation is made that the trends depicted or described above will continue.

Current Global Corporate Scorecard

- Our proprietary corporate scorecard signals caution on the fundamentals across regions.
- Fundamentals are cooling most notably in the US amid tightening financial conditions while they are proving more resilient in China as it benefits from Covid reopening, further evidence of this bifurcation.

	US	Europe	Japan	China
Composite				
Momentum				
EBITDA Margins				
Gross Leverage				
Capex Intensity				

Note: Composite is the weighted average of the fundamental indicators in our model. Momentum refers to the direction of travel for selected fundamentals relative to 3Q22. Green refers to fundamentals in top 1/3rd percentile within timeframe, yellow refers to fundamentals in the middle 1/3rd percentile range, and red refers to fundamentals in the bottom 1/3rd percentile range. Data since 4Q10, as at 4Q22. Source: Bloomberg, KKR PWP Macro analysis.

Current Global Consumer Scorecard

- Our proprietary consumer scorecard also suggests caution across major geographies.
- That said, the consumer sector appears to be strengthening in Japan and China, while weakening in the US and Eurozone.

	US	Europe	Japan	China
Composite	●	●	●	●
Momentum	●	●	●	●
Unemployment	●	●	●	●
Real Wage Growth	●	●	●	●
Real Spending	●	●	●	●
Home Prices	●	●	●	●
Sentiment	●	●	●	●
Equity Market Volatility	●	●	●	●

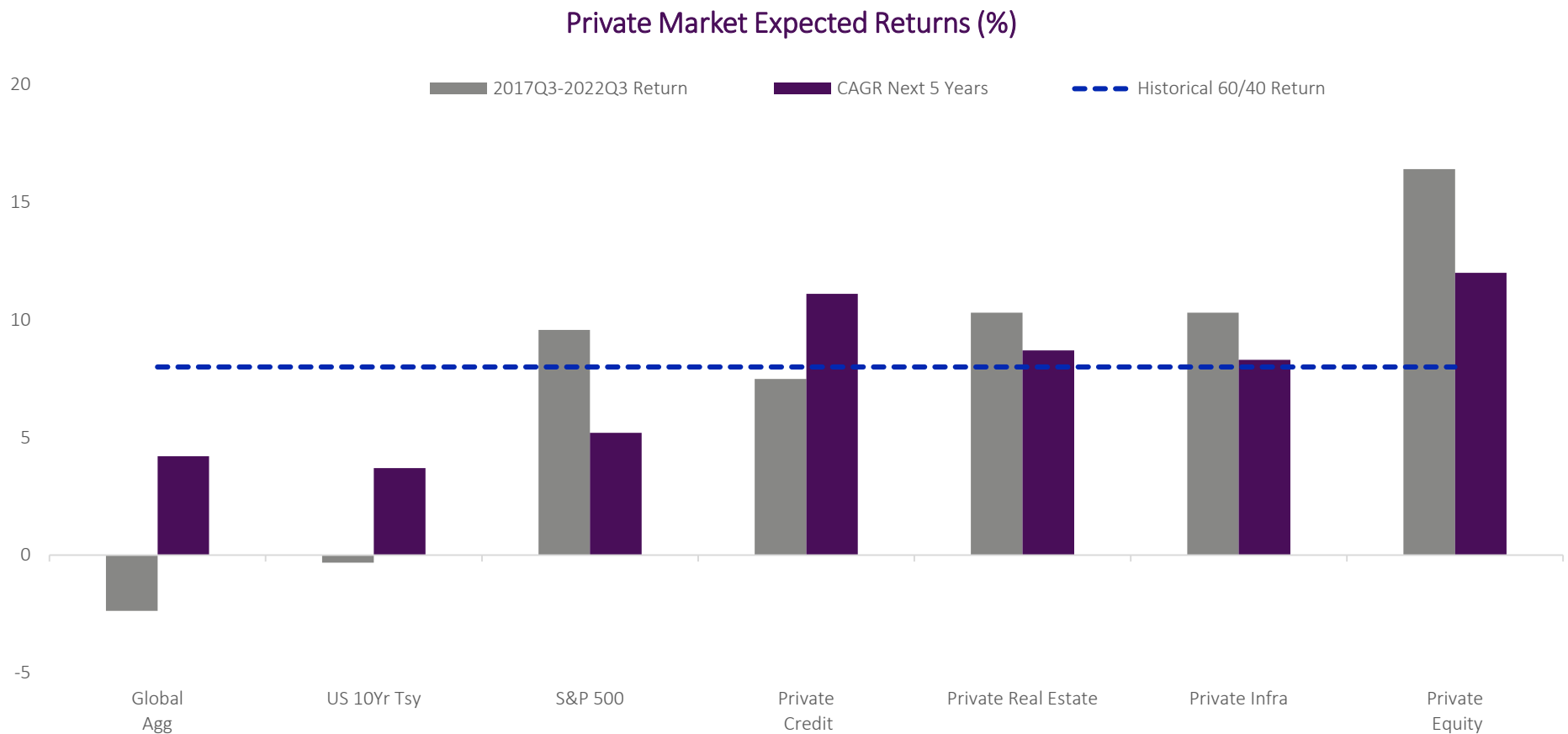
Note: Composite is the weighted average of the fundamental indicators in our model. Momentum refers to the direction of travel relative to December 2021. Data from 12/31/2010 to 12/31/2022 (or latest available). Source: Bloomberg, FRED, KKR PWP Macro analysis.

Investment Implications

The background features a series of white, curved, parallel lines that sweep across the right side of the page. These lines are arranged in two main groups: one group curves upwards from the bottom right towards the top right, and another group curves downwards from the top right towards the bottom right. The lines are thin and closely spaced, creating a sense of motion and depth against the light gray background.

Alternative Assets May Be Key To Meeting Future Goals

- Over the past 10 years, 60/40 portfolios returned an average of ~8%.
- To achieve close to that return over the next five years amid elevated inflation, borrowing costs, and slower growth, investors may need to diversify into alternative asset classes.



Data as at 3/06/2023. Source: KKR GMAA, KKR PWP Macro analysis. No representation is made that the trends depicted or described above will continue.

We Believe Investors Need to Rethink Portfolio Construction As Correlations Between Asset Classes Are Shifting

- Diversification can allow investors to increase returns without increasing risk.
- Equities are currently exhibiting a high correlation across asset classes except Real Estate Equity. Private Credit also exhibits a low correlation to Bonds.

Rolling 12 Quarters Correlation Matrix	Equities	Bonds	Infrastructure	Private Credit	Private Equity	Real Estate Equity	Real Estate Credit
Equities	1.00						
Bonds	0.65	1.00					
Infrastructure	0.78	0.47	1.00				
Private Credit	0.81	0.25	0.80	1.00			
Private Equity	0.91	0.68	0.80	0.85	1.00		
Real Estate Equity	-0.24	-0.51	0.21	0.04	-0.20	1.00	
Real Estate Credit	0.70	0.86	0.41	0.37	0.70	-0.38	1.00

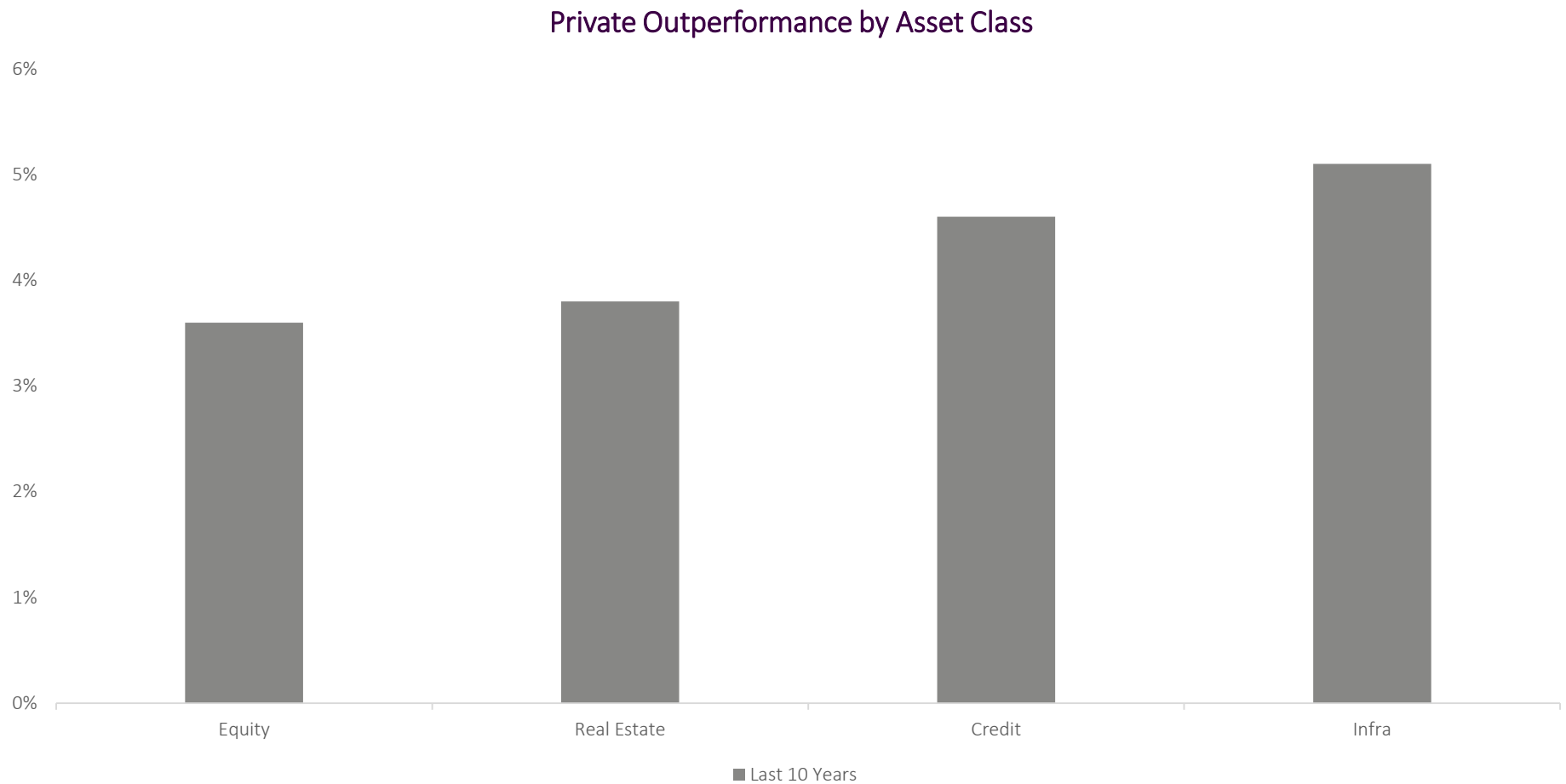
- Notably, the correlation between equities and bonds continues to rise.

Directional Correlation Matrix (TTM)	Equities	Bonds	Infrastructure	Private Credit	Private Equity	Real Estate Equity	Real Estate Credit
Equities							
Bonds	↑						
Infrastructure	↓	↑					
Private Credit	↓	↑	↓				
Private Equity	↑	↑	↓	↓			
Real Estate Equity	↓	↓	↑	↓	↓		
Real Estate Credit	↑	↑	↑	↓	↑	↑	

Note: Data from 3/31/2020 to 12/30/2022. Equities refers to the S&P 500, Bonds refers to the Global Agg, Private Equity refers to Cambridge Associates Benchmark, Private Credit refers to the Cliffwater Direct Lending Index, Real Estate Equity refers to Green Street US Commercial Real Estate, Real Estate Credit refers to Giliberto-Levy Commercial Mortgage Index, and Private Infrastructure refers to Cambridge Associates Benchmark. Source: KKR PWP Macro analysis. No representation is made that the trends depicted or described above will continue.

Private Outperformance Over Public Securities Is High

- The Excess Return of Private Asset Classes Relative to Their Public Alternative Has Been Material Over the Last 10 Years

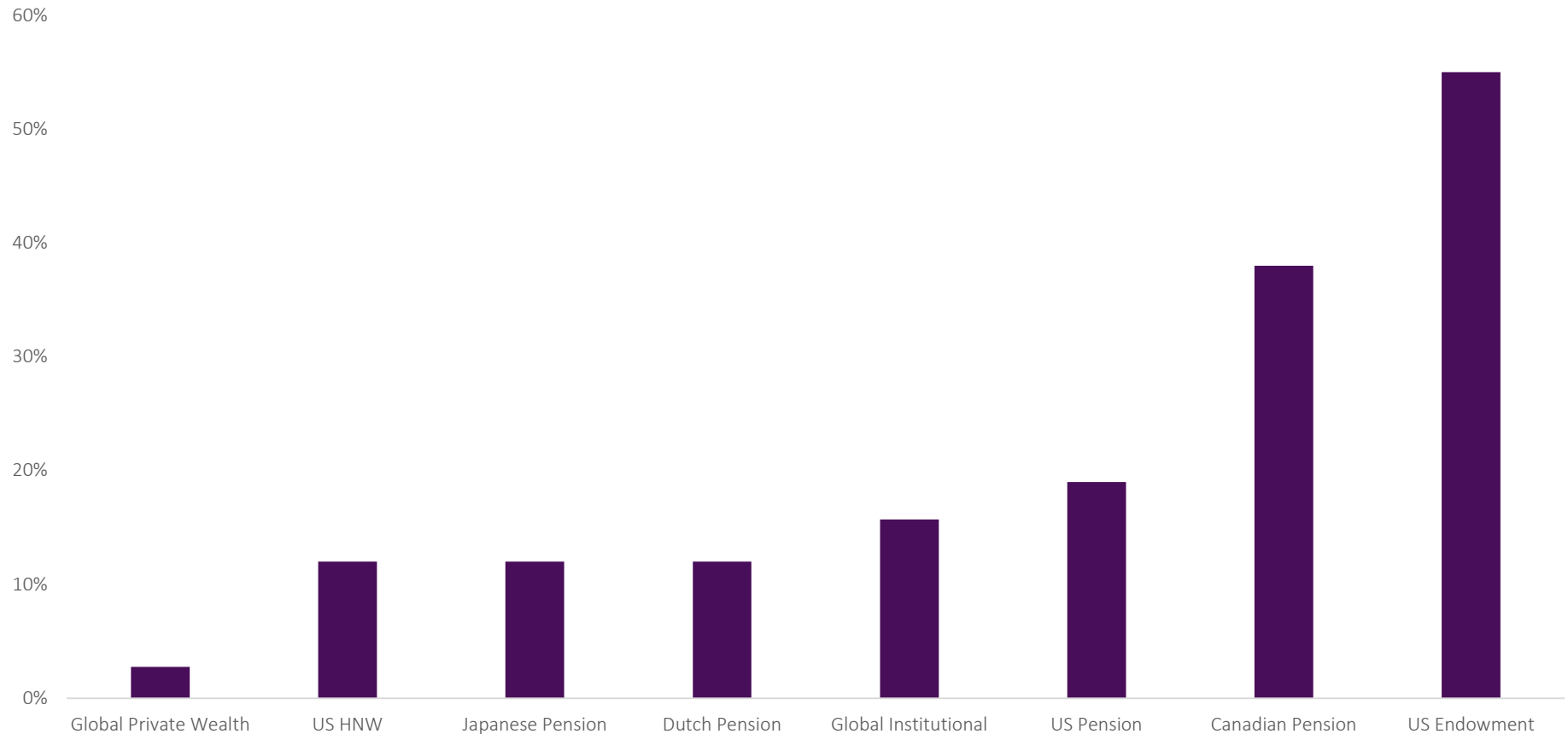


Data as at 9/30/2022. Source: Standard & Poor's, Cambridge Associates, Bloomberg, KKR GMAA analysis.

Investors Are Increasing Allocations To Alternatives

- Investors of Different Types Are Leaning into Alternatives to Reduce Volatility, Support Income Growth, and Maximize Risk-Adjusted Returns

Current Alternatives Allocation



Note: Alternatives defined as allocation to assets other than public equities, public bonds, or cash. Hedge fund allocations are considered Alternatives. Source: The Cerulli Report—U.S. High-Net-Worth and Ultra-High-Net-Worth Markets 2022: Shifts in Alternative Allocations, Thinking Ahead Institute, Indefi, 2022 NACUBO-TIAA Study of Endowments, Bain, KKR PWP Macro analysis.

KKR's Liquidity Unconstrained Alternative to the 60/40

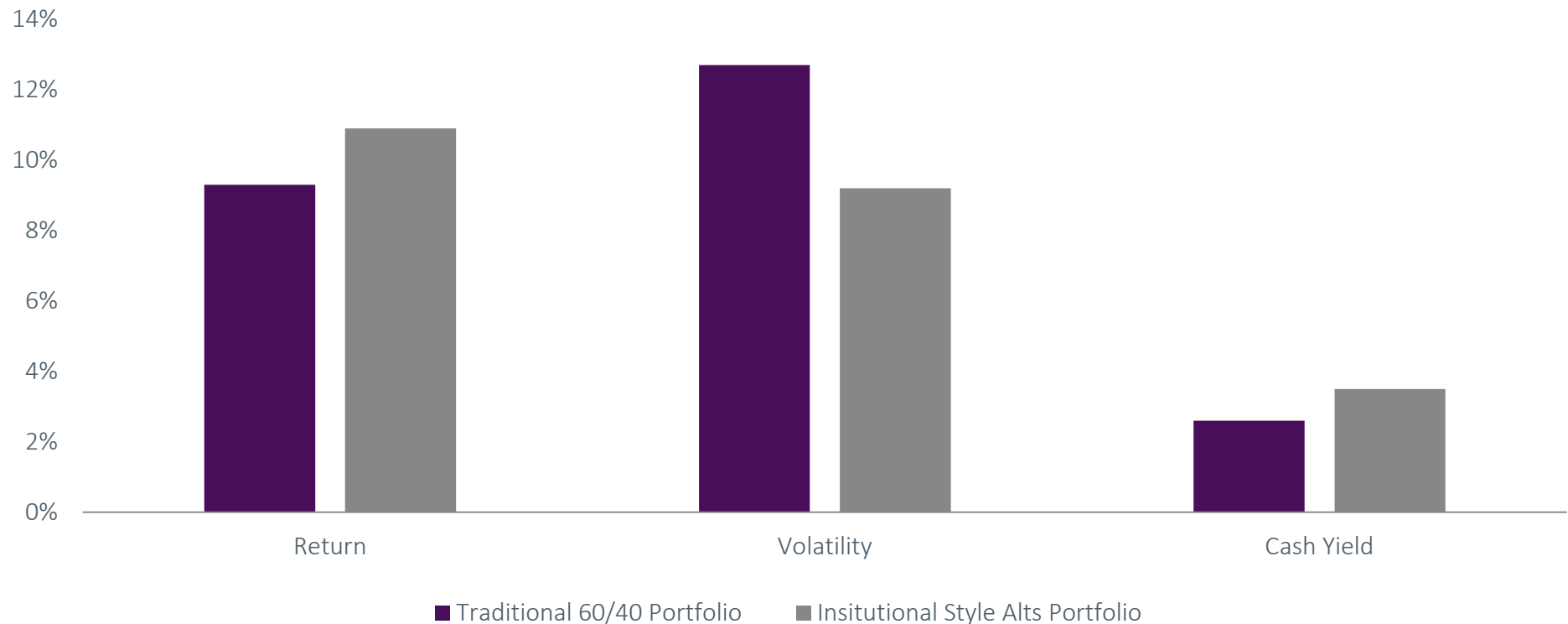
- KKR's CIO and Head of Portfolio Construction Propose a Model Institutional Portfolio to Maximize the Benefits of the Illiquidity Premium



Source: KKR Portfolio Construction analysis, KKR Insights: Regime Change: The Role of Private Equity in the 'Traditional' Portfolio, March 2023. <https://www.kkr.com/global-perspectives/publications/regime-change-role-private-equity-traditional-portfolio>

Giving Up Liquidity Has Led To Higher Risk Adjusted Returns

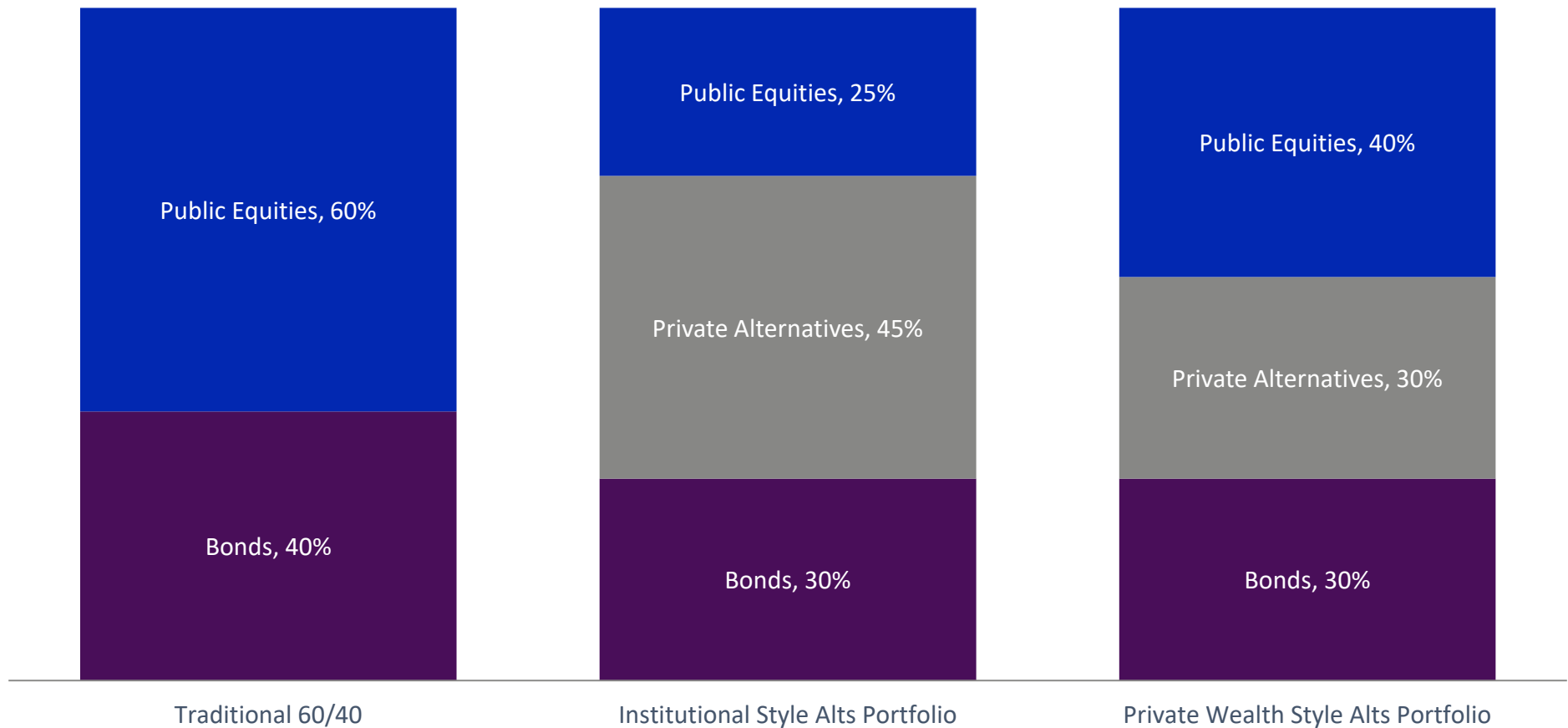
- KKR's Institutional Style Alts Portfolio Achieved over 1.5% of Excess Performance with over 3% Less Volatility and Nearly 1% of Excess Cash Yield Relative to the Traditional 60/40 Portfolio



Source: KKR Portfolio Construction analysis, KKR Insights: Regime Change: The Role of Private Equity in the 'Traditional' Portfolio, March 2023. <https://www.kkr.com/global-perspectives/publications/regime-change-role-private-equity-traditional-portfolio>

In the 40/30/30 Portfolio, Investors Trade Return In Favor of Increased Liquidity

- The 40/30/30 Portfolio is Not as High Returning as the More Alternatives Focused Institutional Style Portfolio but is Higher Returning – and often with Less Risk – than the Traditional 60/40 Portfolio



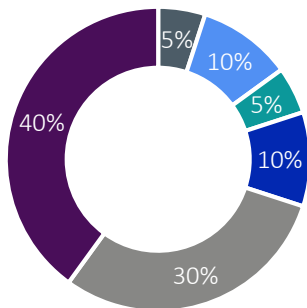
Source: KKR Portfolio Construction analysis, KKR Insights: Regime Change: The Role of Private Equity in the 'Traditional' Portfolio, March 2023. <https://www.kkr.com/global-perspectives/publications/regime-change-role-private-equity-traditional-portfolio>

Goals Oriented Asset Allocation Tradeoffs

- Investors can adjust the Alternatives asset allocation to achieve specific benefits.
- A higher PE allocation offers higher risk-adjusted returns driven by company value creation and the illiquidity premium.
- Overweighting Infrastructure and Private Credit allocations provides income and downside protection.
- Increased allocation to Infrastructure and Real Estate helps investors generate income and protect purchasing power.

Allocating the 30%

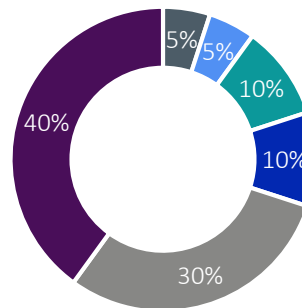
Maximize Income



■ Equities ■ Bonds ■ Private Credit ■ Private Infrastructure ■ Private Real Estate ■ Private Equity

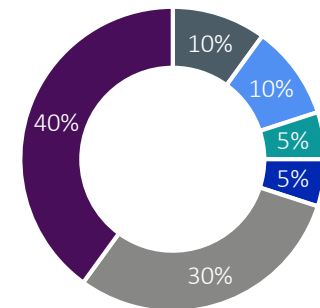
- Elevated yields available in Private Credit
- Wide mortgage spreads and cap rate repricing provide attractive yields/income in Real Estate
- Infrastructure provides both current income and strong inflation hedging

Protect Downside



- Private Credit & Infrastructure historically experience shallow drawdowns and fast recovery periods
- Private Real Estate Credit provides diversification and attractive returns at a lower level of risk

Maximize Returns



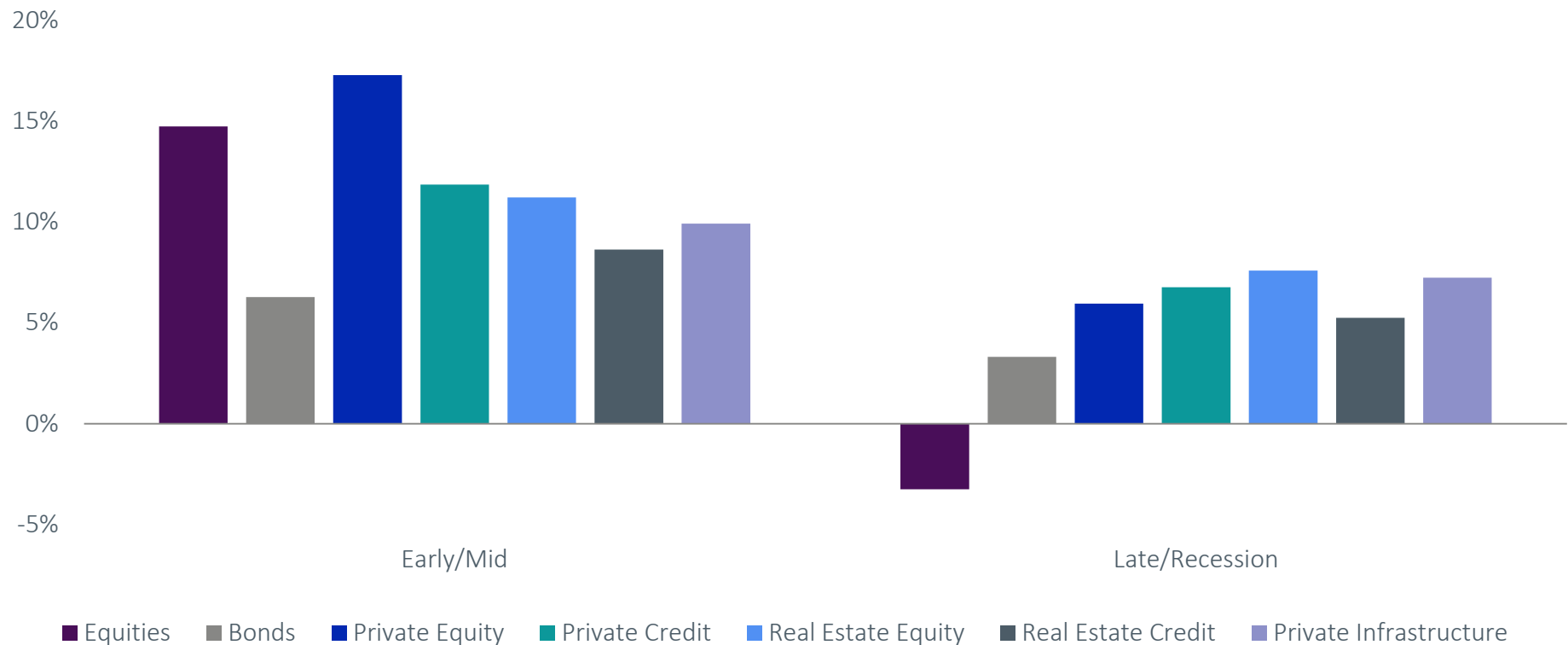
- Maximize returns via an outsize allocation to private equity
- Public market volatility creates opportunities in PE
- Manager selection can drive massive outperformance

Source: KKR PWP Macro analysis. Downside protection is no guarantee against future losses.

Investors Can Optimize Returns By Adjusting Tilts Depending on the Business Cycle Phase

- During late cycle periods, Infrastructure tends to stand among the strongest performing asset classes as risk sensitive assets start to come under pressure.
- In a recessionary environment, Bonds and collateral-based cash flow-based asset classes like Real Estate and Infrastructure tend to be more resilient.
- Risk-sensitive assets like Private Equity tend to perform the best heading into a new cycle.

Asset Class Returns Throughout The Cycle



Note: Asset class total returns are represented by indexes from Haver, Bloomberg, Cambridge Associates, Cliffwater, Green Street. Equities refers to the Russell 2000, Bonds refers to the Global Agg, Private Equity refers to Cambridge Associates Benchmark, Private Credit refers to the Cliffwater Direct Lending Index, Real Estate Equity refers to Green Street US Commercial Real Estate, Real Estate Credit refers to Giliberto-Levy Commercial Mortgage Index, and Private Infrastructure refers to Cambridge Associates Benchmark. Source: KKR PWP Macro analysis.

Asset Class Selection

The background features a light gray gradient with two sets of white, curved, parallel lines. One set of lines is in the upper right quadrant, curving downwards and to the left. Another set is in the lower right quadrant, curving upwards and to the left. The lines are of varying thickness and spacing, creating a sense of motion and depth.

Incorporating Private Infrastructure Into the Wealth Portfolio

Investors can leverage Infrastructure for both steady capital appreciation, income generation and downside protection. In higher inflation environments, Infrastructure protects purchasing power.



Benefits

- **Downside risk protection** given essential nature of asset base where yield is often contracted/regulated e.g., water utilities
- **Inflation linkage of cash flows**
- **Replacement value** of assets increases as nominal GDP rises and populations grow
- Operating businesses where **value creation** is a real opportunity



Considerations

- Liquidity Management
- Sub-sectors exhibit very different profiles, so **asset selection** is important
- Volume-driven or GDP-correlated infra is more volatile versus contracted/regulated infra
- Government and regulatory agenda can impact outcomes
- Contract structure/duration



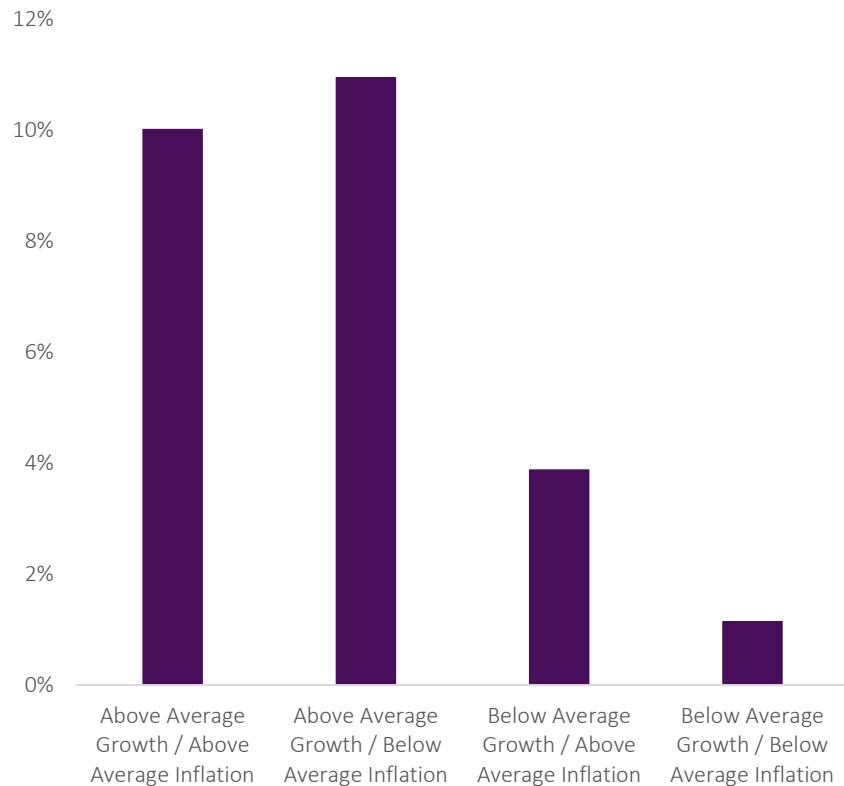
Secular Drivers

- **Decarbonization** - Reduce the carbon intensity of traditional fossil fuel energy infrastructure e.g., solar & wind assets and electricity distribution
- **Deconsolidation** - Industrials and corporates seek to create value and operational efficiency by divesting non-core assets
- **Digitization** - Data is the fastest growing commodity in the world with global IP traffic expected to increase by 26% CAGR e.g., fiber optics and cell towers

We Believe There Is A Compelling Case for Infrastructure In a Recessionary Environment With Elevated Inflation

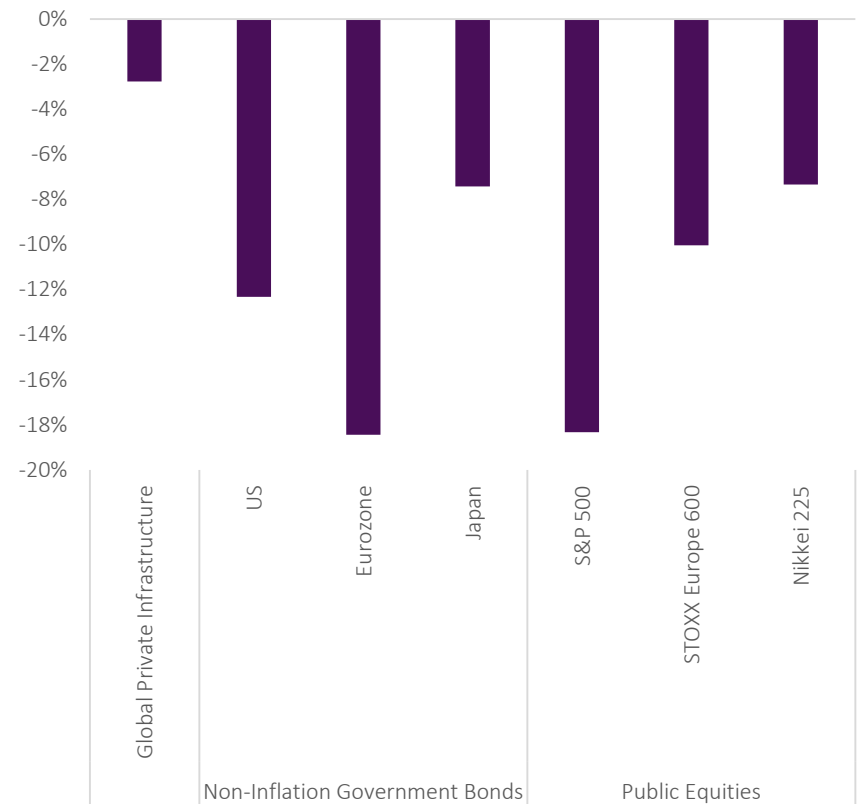
- Inflation Linked Cash Flows Allow Infrastructure To Outperform During Periods of Elevated Inflation

Infrastructure Returns



- Essential Nature of Asset Base With Contracted Yield Provides Downside Protection

Performance in 2022



Left chart – Note: Data from 2000 to 2022 using average annual returns. Above Average Growth defined as > 2% and Below Average Growth as < 2%. Above Average Inflation defined as > 2.5% and Below Average as < 2.5%. Source: Cambridge Associates All Global Private Infrastructure Index, KKR Portfolio Construction analysis. Right chart – Note: Value-Weighted Infra300 Index in USD. Non-Inflation Government Bonds refers to the Bloomberg U.S. Treasury Total Return Unhedged Index in the US, the FTSE Eurozone Government Bond Index in the Eurozone, and the FTSE Japan Government Bond Index in Japan. Source: Edhec, Bloomberg, KKR PWP Macro analysis. No representation is made that the trends depicted or described above will continue.

Global Private Equity Investing

Maximizes risk-adjusted returns particularly when public equity markets are more challenged



Benefits

- Historical **~3% excess return over public equities** for the median manager. However, manager selection can drive significant outperformance as **manager dispersion averages ~12.5%**
- Company **value creation lever has historically yielded a 4.4% excess EBITDA growth** versus public companies
- Market volatility may create opportunities this year



Considerations

- Liquidity Management
- Elevated financing costs drives need for creativity in deal structuring
- Dry powder available across the industry creates potential for high competition
- Higher input costs and rates will be a headwind for some company business models



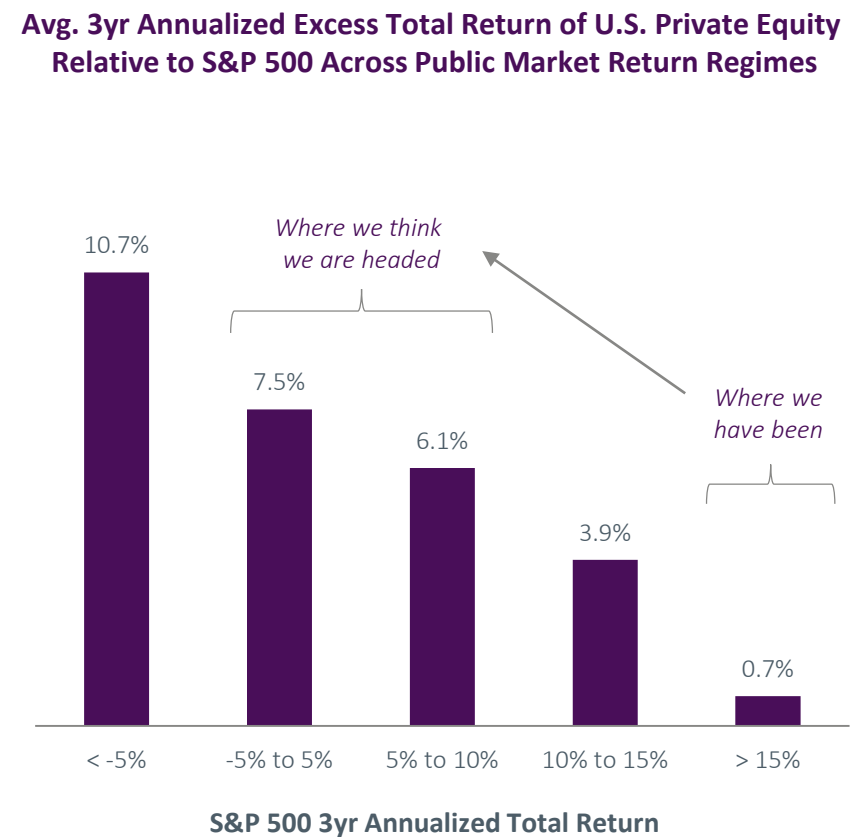
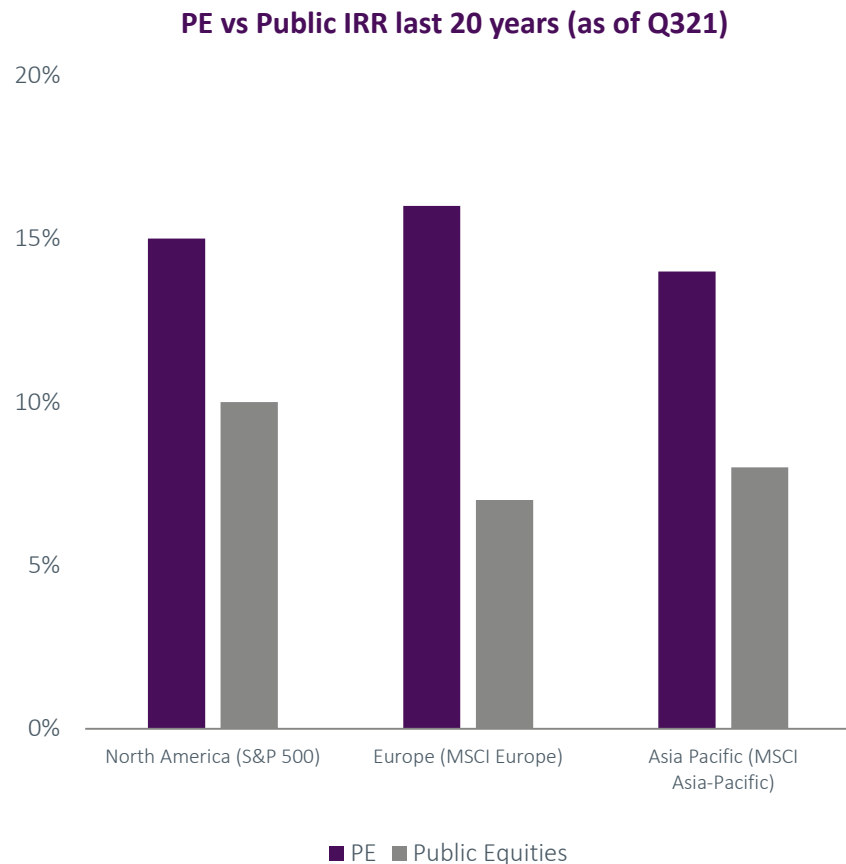
Secular Drivers

- Demographics
- Digitization
- Housing supply/ demand imbalances
- Health & Wellness
- Security of everything

Note: (i.e., the difference between top and bottom quartile vintages is wider than for Active Public Equities Managers at 5%). Source: Cambridge Associates, KKR Portfolio Construction analysis, KKR PWP Macro Analysis. There are several risks associated with private equity strategies that must be considered before investing.

Public Equity Market Dislocation is Creating Opportunities for Private Equity

- Across geographies, Private Equity returns tend to exceed Public Equity returns.
- The excess return of Private Equity is highest when Public Equity market volatility is highest.



Left chart – Note: Public Equities IRR is calculated as a modified public market equivalent (mPME), which is defined as the returns that an investor would achieve by deploying the PE cash flows into public equity markets. Data as at 9/30/2022. Source: Cambridge Associates, Bain, Bloomberg, KKR Portfolio Construction analysis. Right chart – Data as at 11/30/2022. Source: Cambridge Associates, Pitchbook, KKR GMAA analysis. No representation is made that the trends depicted or described above will continue.

Global Private Real Estate Investing

We believe investors can leverage real estate equity and credit to achieve steady returns throughout the cycle.



Benefits

- Potential hedge against inflation via **collateral-based cash flows**
- Opportunity to gain exposure via **equity or credit**
- Broad opportunity set in large, global asset class with **multiple sub-sectors** e.g., logistics, multifamily
- Significant **portfolio diversification** benefits



Considerations

- Liquidity management
- Shifts in secular trends e.g., commercial office
- Impact of higher borrowing costs on transaction volume
- Capital market driven repricing against solid fundamentals should create opportunities
- Lenders market amidst elevated borrowing costs



Secular Drivers

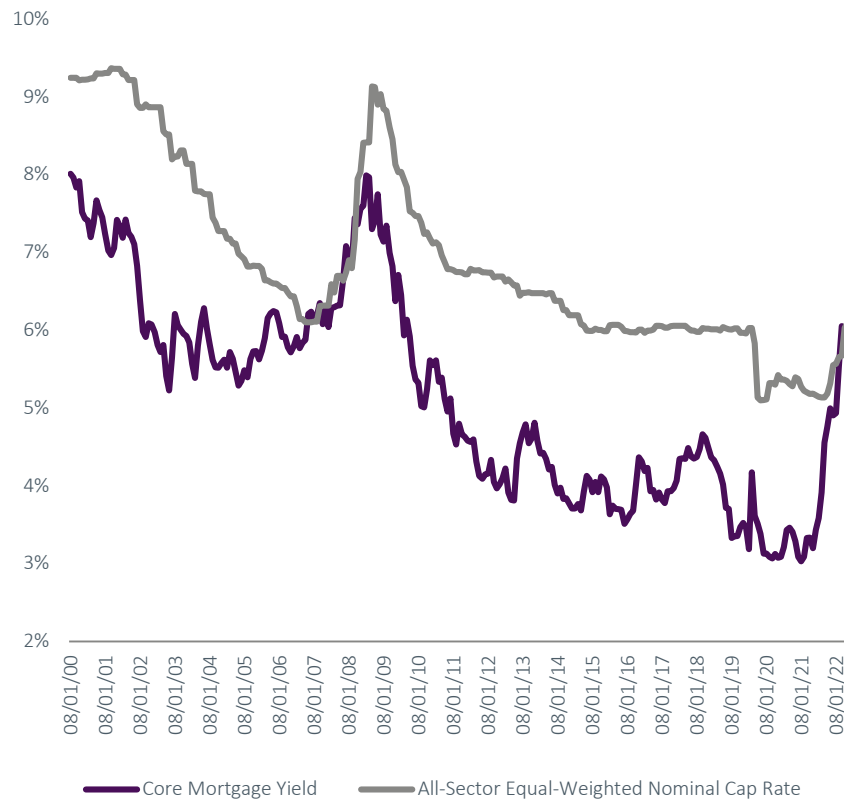
- **Consumer Behavior** – e.g., work-from-home creates propensity to rent
- **Demographic Shifts** – e.g., migration patterns and aging population create population inflows to markets
- **Corporate Strategy** – e.g., supply chain security and on-shoring creates domestic demand for space

There are several risks associated private equity real estate strategies that must be considered before investing.

Private Real Estate Credit Provides Comparable Returns to Private Real Estate Equity with Less Risk

- Unlevered Mortgage Yields Are Currently on Par with the Real Estate Equity Cap Rates

Mortgage Yields vs Capitalization Rates



- Repricing in the US and Europe Has Created Opportunities

Real Estate Valuation Percentiles (Relative to Historical Average Since 2009)



Left chart – Data since 09/30/2000 through 12/31/2022. Right chart - Data since 09/01/2009 through 12/31/2022, except Korea Private Office data as at 09/01/2022. Source: Green Street, Giliberto-Levy, KKR PWP Macro analysis. No representation is made that the trends depicted or described above will continue.

Global Private Credit Investing

Today's market presents compelling opportunities for credit to generate accretive income with structural and contractual downside protections we have not seen in over a decade.



Benefits

- Obtain exposure to credit risk with typically **greater control and lender protections** than available in the public markets
- In a higher rate environment, increasing exposure to floating rate assets helps **boost the income-generating** component of the fixed income allocation
- Benefit from **inflation protection** in credit backed by hard collateral e.g., real estate, aircraft and railcars, in particular
- Increased **diversification benefit** versus traditional fixed income
- Flexibility to invest opportunistically across the **credit spectrum**



Considerations

- Liquidity Management
- Rising default risk requires prudent credit selection
- Elevated rates support increased exposure to floating versus fixed rate credit given impact of inflation on fixed rate credit
- At current government yields, bonds are offering a compelling value proposition
- Time to build sizeable positions can create a need for **liquid credit** to gain exposure

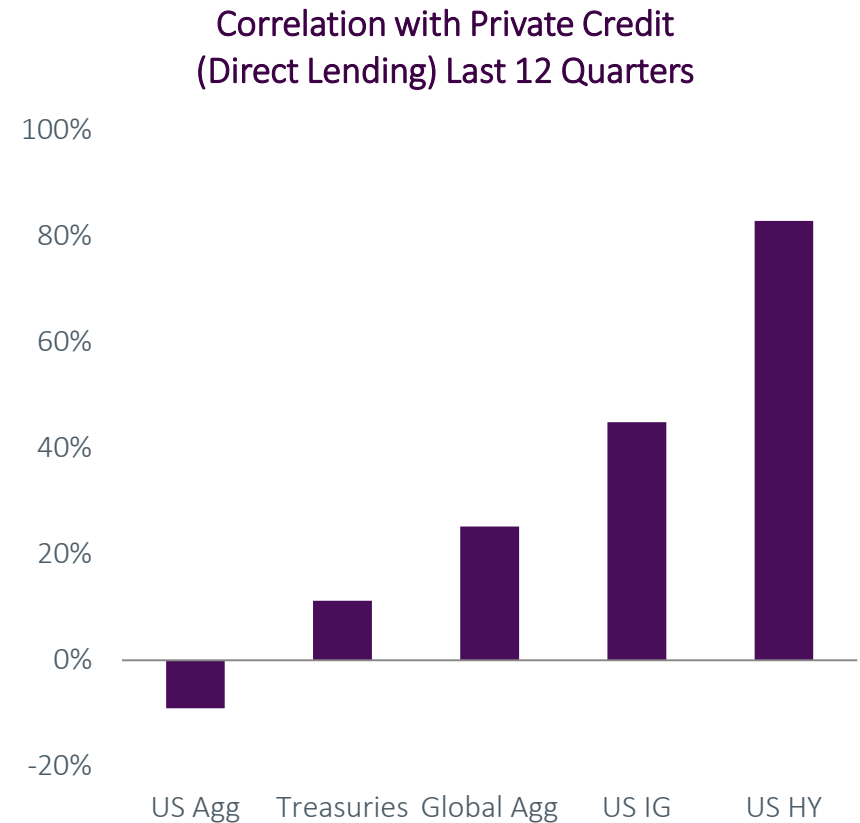
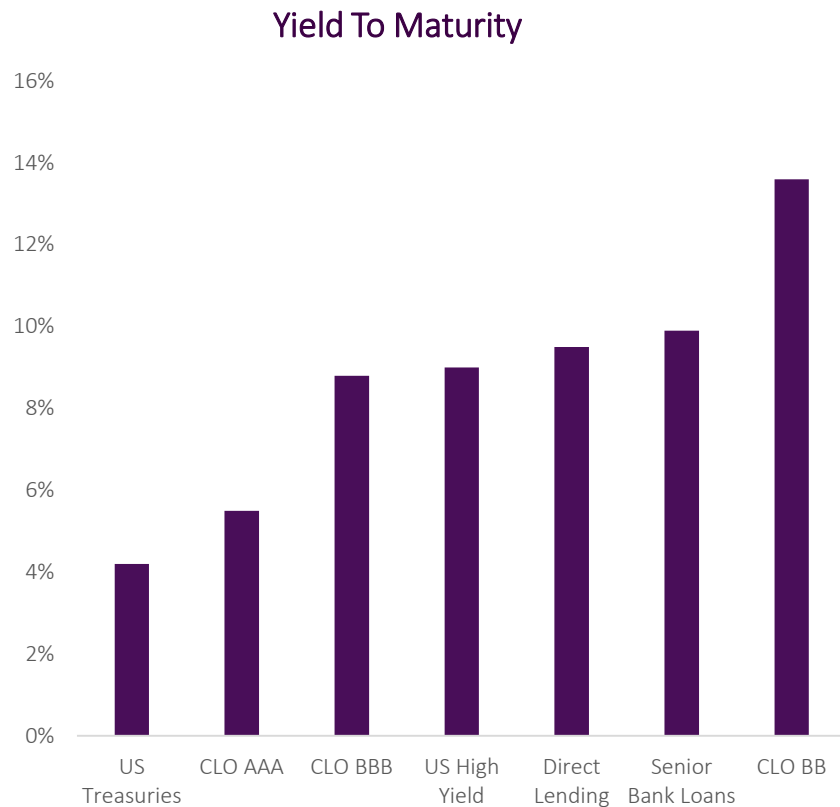


Secular Drivers

- As traditional lenders face regulatory requirements to increase loan loss reserves, constraints in their ability to extend credit is creating opportunities for private credit
- In the current macro backdrop investors can underwrite higher quality assets with lower leverage at attractive yields
- Compelling yield in a higher rate environment amidst elevated government yields boosted by the illiquidity premium

Multiple Areas of Private Credit Offer A Compelling Value Proposition Today

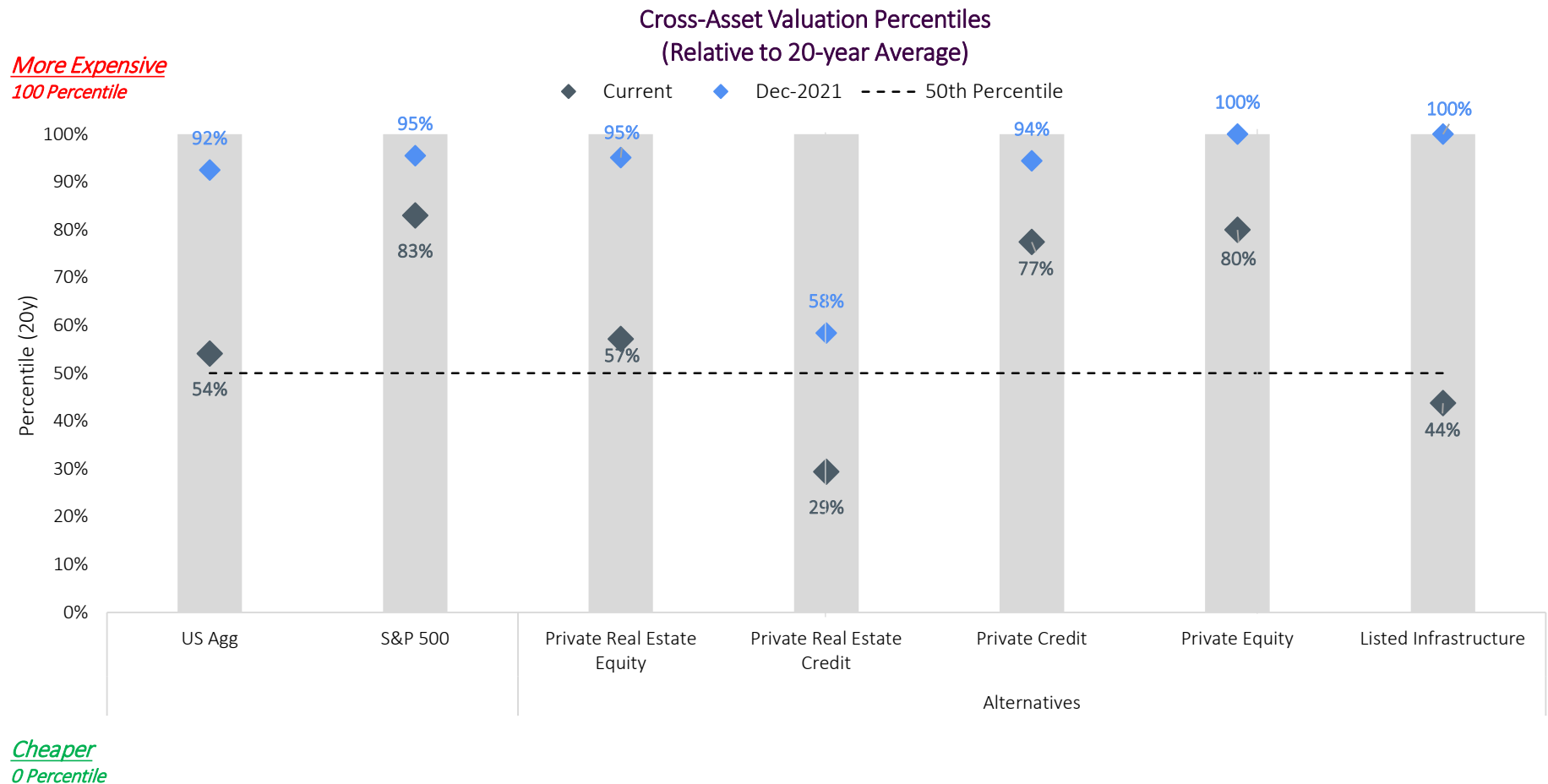
- Private Credit provides strong downside protection and diversification compared to traditional asset classes.
- Today many parts of Private Credit offer a compelling yield and diversification proposition that traditional fixed income often cannot match, we believe.



Note: Direct Lending is represented by the Cliffwater Direct Lending Index. High Yield is represented by the ICE BofAML U.S. High Yield Index. Senior Bank Loans are represented by the S&P/LSTA Leveraged Loan Index. U.S. Treasuries are represented by the ICE BofAML 10-Year U.S. Treasury Index, US Investment Grade represented by the Bloomberg US Corporate Total Return Index, US Agg represented by the Bloomberg US Agg Total Return Value Index, and Global Agg represented by the Bloomberg Global-Aggregate Total Return Index. CLO AAA, CLO BBB. CLO BB yields are as at 1/31/2023. Data unless otherwise noted as at 12/31/2022. Source: Bloomberg, Cliffwater, Cambridge Associates, KKR GMAA, KKR Portfolio Construction, KKR PWP Macro analysis. Downside protection is no guarantee against future losses.

Determining the Right Entry Point

- Valuations for Alternatives Have Reset More Than Large Cap Equities, Which Has Created Opportunities



Note: S&P 500 refers to NTM P/E; UST, credit refer to spreads; private real estate refers to nominal cap rate; private real estate credit refers to mortgage spreads; listed infrastructure refers to dividend yield. Data as at 2/28/2023 for all except Private Credit & Equity where available data is as at 09/30/2022; percentiles from 2002-date where available. Source: Bloomberg, Haver Analytics, ICE-BofAML Bond Indices, Green Street, Cambridge Associates, Gilberto-Levy, KKR GMAA analysis, KKR PWP Macro analysis.

Quarterly Takeaways

- 01 KKR sees the current global banking crisis as emanating from **market uncertainty** surrounding unrealized losses, uninsured deposits, and commercial office exposure on bank balance sheets. **More banking oversight** may be needed, and **global central banks may continue to increase policy rates**, albeit following a shallower and/or truncated path.
- 02 The crisis reaffirms our view that we have entered a **new macroeconomic regime** characterized by higher levels of inflation, higher rates, heightened geopolitical risks and slower, though positive, real economic growth.
- 03 Importantly, amid elevated inflation, we expect **real rates to remain low**.
- 04 To achieve return goals, investors are increasingly leaning into the **diversification, downside protection, illiquidity premium, and inflation hedging benefits provided by Alternatives**.
- 05 In the current market, there are more opportunities for private lenders as banks pull back lending. Against that backdrop **Private Credit and Real Estate Credit** returns are compelling, especially given downside protection benefits. Investors should also consider the current value offered in **Liquid Credit**, which can be used as a transitional bridge to a Private Credit allocation.
- 06 We believe **Infrastructure and select Real Estate** investments can support investors to protect purchasing power in a higher inflation environment.
- 07 **Private Equity** relative outperformance is greatest when public market volatility is highest, as a result, capital market dislocation may present significant opportunities.
- 08 We think investors should prioritize **thematic exposure** to climate change mitigation, the energy transition, shifting demographics, the housing supply/demand imbalance, and ‘the security of everything’.

Appendix



By The Numbers - Macro

	Current as of February 2023	December 2023 Forecast (Base Case)
S&P 500	4120	4150
US 10 Year	3.80%	4.25%

S&P 500 Price Target Scenarios				
	Base (50% Prob)	Bear (35% Prob)	Bull (15% Prob)	Weighted Average
Current = 3,950				
2023 Year-End Target	4,150	3,060	4,730	3,855
P/E on 2024 EPS	17.7x	15.1x	18.6x	17.0x
2024 Year-End Target	4,390	3,100	5,060	4,039
P/E on 2025 EPS	17.3x	14.2x	18.6x	16.5x
2021a EPS	\$209	\$209	\$209	\$209
2022e EPS	\$222	\$221	\$224	\$222
2023e EPS	\$200	\$182	\$238	\$200
2024e EPS	\$235	\$202	\$255	\$227

Note: Data as at 11/21/2022. Forecast as at 3/03/2023. Source: KKR GMAA analysis.

✓ As we see it, ERP at ~5.6% is elevated vs history, a contrarian indicator of strong future performance

✓ But, even after recent credit spread compression, excess risk premia to HY spreads is only just returning to historically average levels of ~120bps

✓ KKR's multi-factor EPS model calls for a fall in EPS of ~10%, driven by still high oil prices, a weakening USD, direction of credit spreads, slowing ISM index, level of consumer confidence, higher policy rates, and other factors

✓ On multiples, large caps trading ~18x is not necessarily cheap vs the long term average so, in our view, value creation going forward will not be from multiple expansion as there will be sustainable alternatives to equities in a higher for longer rate environment, giving less reason to bid up equities and limiting animal spirits

By The Numbers – Portfolio Construction

	Return	Volatility	Sharpe Ratio	△ vs. 60/40	% Liquid Asset	Cash Yield
All Periods by Portfolio						
60/40	9.3%	12.7%	0.73	-	100%	2.6%
40/30/30	9.6%	9.6%	1.001	+0.26	70%	3.6%
Private Wealth	10.6%	10.6%	1.00	+0.27	70%	3.2%
Institutional	10.9%	9.2%	1.18	+0.45	55%	3.5%
High Inflation by Portfolio						
60/40	1.5%	12.5%	0.12	-	100%	2.6%
40/30/30	4.3%	8.8%	0.49	+0.36	70%	3.7%
Private Wealth	5.3%	9.1%	0.57	+0.45	70%	3.2%
Institutional	6.9%	8.6%	0.80	+0.68	55%	3.5%
Low Inflation by Portfolio						
60/30	11.0%	11.5%	0.96	-	100%	2.6%
40/30/30	10.5%	9.1%	1.16	+0.21	70%	3.6%
Private Wealth	11.5%	10.2%	1.13	+0.18	70%	3.1%
Institutional	11.4%	9.3%	1.23	+0.27	55%	3.5%

Source: KKR Portfolio Construction analysis, KKR Insights: Regime Change: The Role of Private Equity in the 'Traditional' Portfolio, March 2023. <https://www.kkr.com/global-perspectives/publications/regime-change-role-private-equity-traditional-portfolio>