

Morgan Stanley

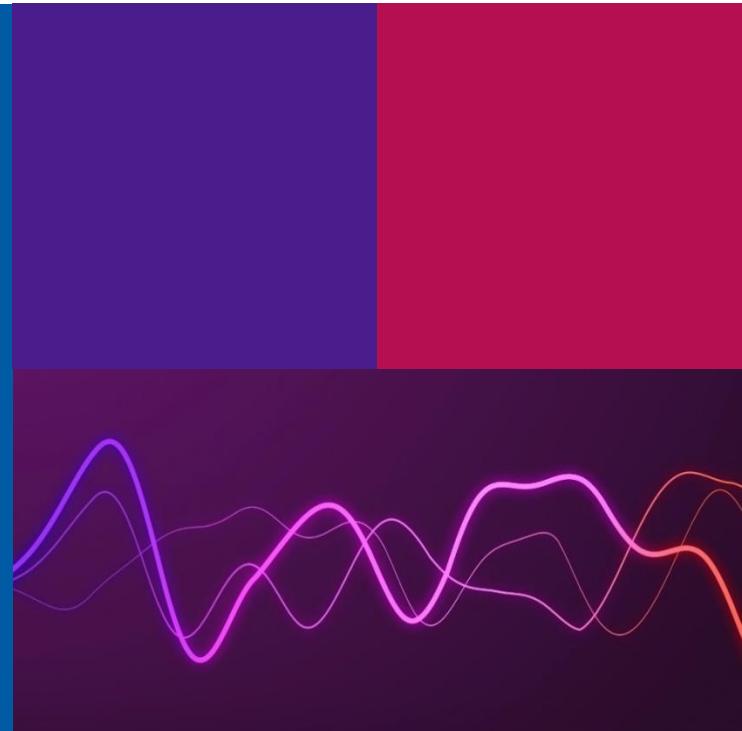
INVESTMENT MANAGEMENT

# The BEAT

Bonds | Equities | Alternatives | Transition

Monthly Global Market and Asset Allocation Guide

November 2025



TOP VIEWS	3
BONDS	28
EQUITIES	40
ALTERNATIVES	51
TRANSITION	57

The **BEAT**, previously known as the Monthly Market Monitor, provides connectivity between changing market events and implications for investor portfolios.

Spanning **Bonds, Equities, Alternatives and Transition**\*, this monthly review provides timely information across a broad array of markets and investment topics.

Each edition explores investment ideas, identifies areas of focus and provides a comprehensive outlook on asset allocation—all supported by a concise review of economic and asset class data through clear and impactful charts.

We believe The **BEAT** is a critical desk reference that enables more informed discussion and understanding of financial markets.



If you are viewing this book on your computer or tablet, **click or tap on the section box to jump to the beginning of each section.**

Data provided is for informational use only. See end of report for important additional information.

\*Transition is an asset allocation view, which refers to cash, cash equivalents or liquid short-duration assets, such as short-dated Treasuries, that can be used to “transition” to other asset classes.

## TOP VIEWS: THE BOTTOM LINE

# Looking Through the Soft Patch

As we move towards year-end, a soft patch is likely to emerge, followed by a swift payback and catchup in 1Q26. The U.S. government shutdown, tariff tensions, credit market volatility and softer data will likely bring turbulence into Q4. That said, we should not extrapolate events too far into the future. In fact, the 2026 setup looks more favorable. Growth is poised to accelerate, bolstered by corporate investment, personal tax returns and AI-driven labor productivity trends. In our view, market segments investing in technology will see higher efficiency and productivity gains, and higher valuations.



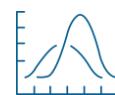
### Credit Risk: Idiosyncratic, Not Systemic

Credit risks echo prior regional bank risk events that hang over the market. These risks seem idiosyncratic because the collateral is dispersed and not consistently levered. More scrutiny and a tightening of underwriting credit risk heighten risk awareness, but are unlikely to derail the risk-positive cycle.



### 4Q Soft Patch, Payback in 1Q26

A look through 4Q turbulence is positive; we just need to get past the 4Q soft patch. The consumer stimulus of tax refunds is roughly \$160-\$190 billion. Business investment from tax incentives also drives growth while keeping supply-side forces intact. While some uncertainties remain, the pro-growth direction seems clear.



### Rates: Is the Fed Making a Policy Mistake? No!

The Fed looks at rates through the Phillips Curve, connecting wage inflation and the unemployment rate. Given the Fed's view that labor markets today are not dynamic, they see risks tilting to a higher unemployment rate, implying downward pressure on inflation. Cutting rates, despite inflation being above target, is warranted.



### A Possible Trinity: Labor, Inflation and Productivity

Labor is available at a reasonable price, supporting higher growth expectations in 2026. This is the silver lining to a softer labor market, where inflation pressures should stay low as wages remain tame. This, plus business investment, should drive higher productivity. All three are possible in 2026 and would support higher asset valuations.

The views and opinions expressed are those of the Portfolio Solutions Group at the time of writing of this presentation and are subject to change at any time due to market, economic or other conditions, and may not necessarily come to pass. Not to be construed as an investment or research recommendation.

## TOP VIEWS: POSITIONING

### Top Active Views

---

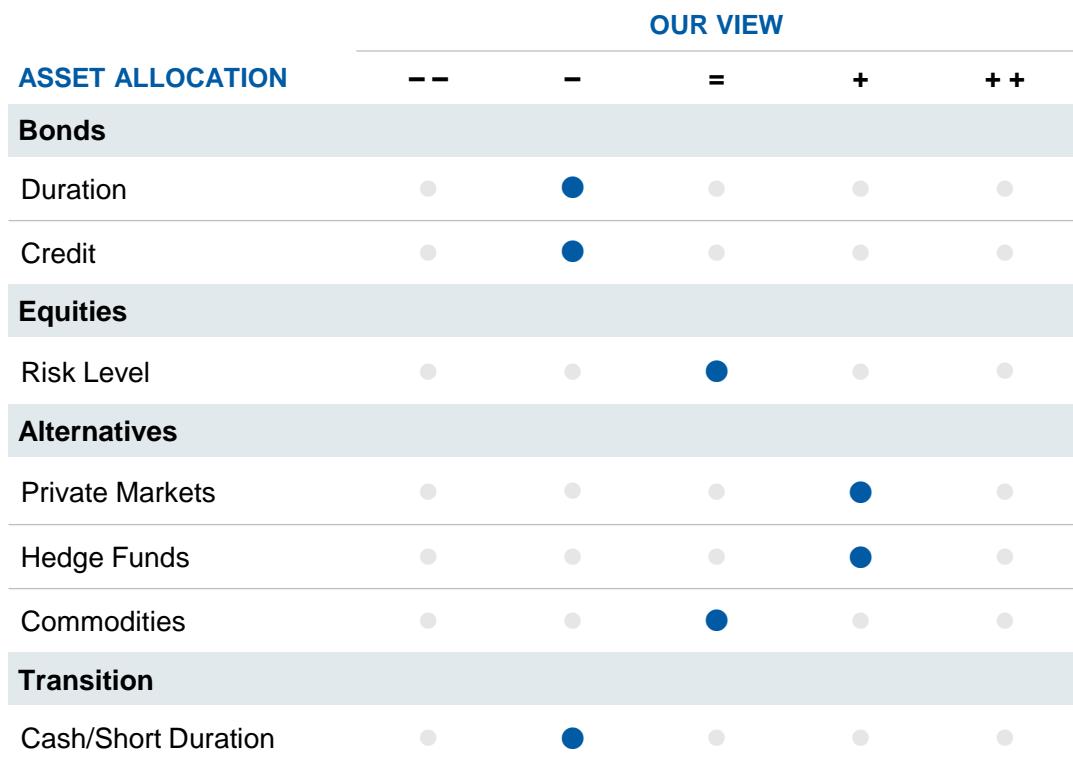
- 1 O/W U.S. Equities: Resilient Growth, With Tailwinds To Come
- 2 Continued Preference for U.S. Large-Cap Over Small- and Mid-Caps
- 3 Europe: Neutral, but O/W Banks and German Fiscal Policy Beneficiaries
- 4 Duration: U/W in U.S. With Yield Curve Steepening Bias
- 5 We Prefer Higher-Yielding Credit, Relative to Investment Grade
- 6 Carry via FX: Own EU High Yield Hedged Back to the U.S. Dollar
- 7 MBS/RMBS Non-Agency Remains Our Highest Conviction Bond O/W

---

Note: O/W means overweight and U/W means underweight. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

## TOP VIEWS: POSITIONING

## Capital Markets Investment Framework



- Current allocation
- ◀ Change from previous

- High conviction underweight
- Underweight
- + Overweight
- = Neutral

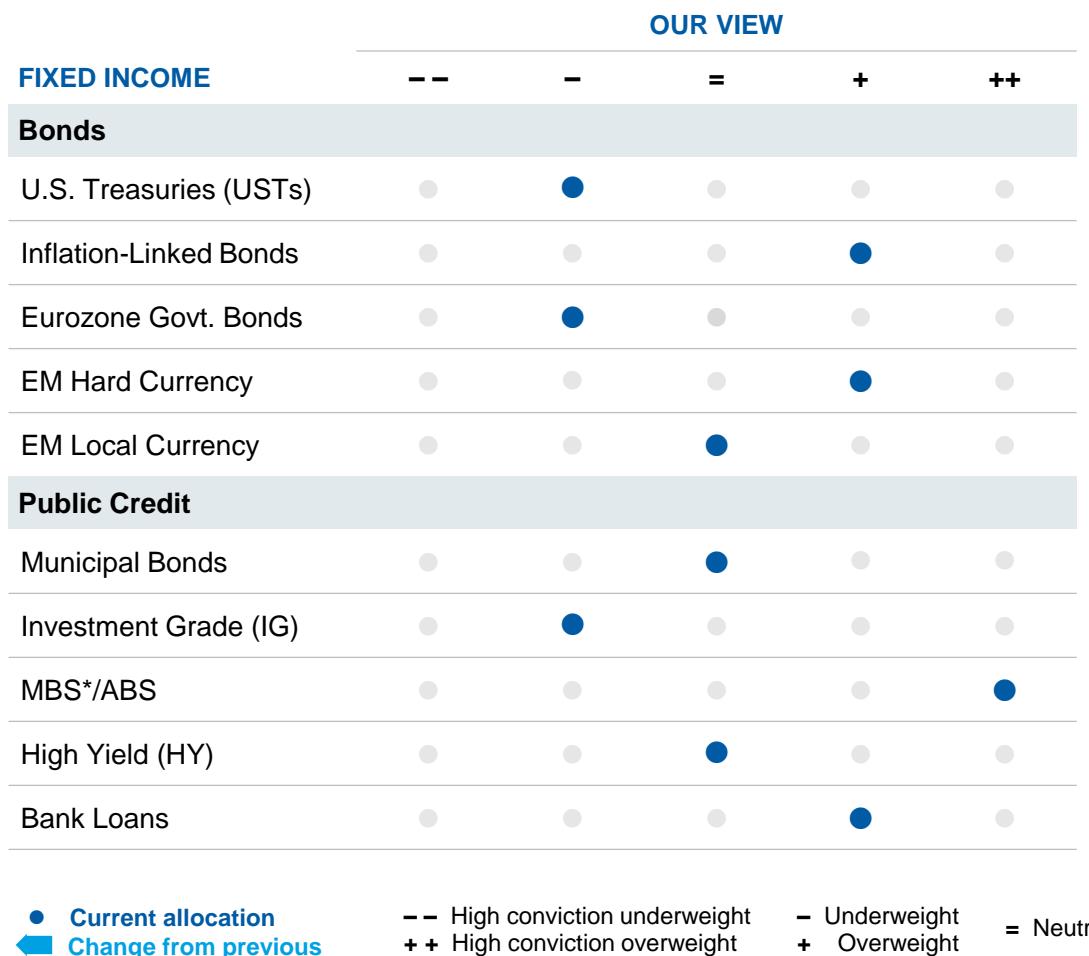
## Points of Focus:

- 1 Remain U/W duration.
- 2 Corporate credit remains expensive; we maintain a relative preference for Emerging Market (EM) Debt Hard Currency, Asset-Backed Securities (ABS) and Bank Loans.
- 3 Remain neutral on equities globally, with a view of balanced risks.

For informational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The tactical views expressed above are a broad reflection of our team's views and implementations, expressed for client communication purposes. Individual team allocations may differ. The information herein does not contend to address the financial objectives, situation or specific needs of any individual investor. The signals represent the Portfolio Solutions Group view on each asset class.

## TOP VIEWS: POSITIONING

## Global Fixed Income



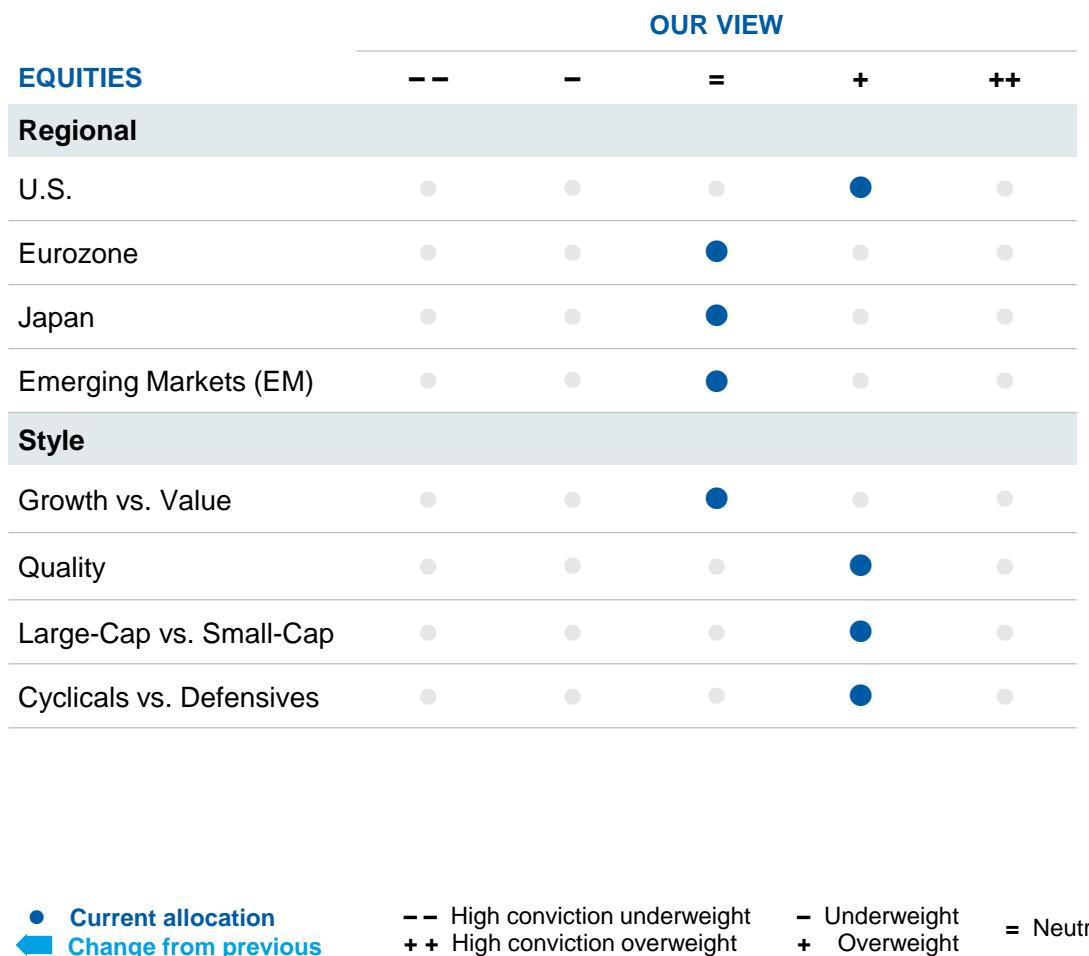
\*Mortgage-Backed Securities. For informational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The tactical views expressed above are a broad reflection of our team's views and implementations, expressed for client communication purposes. Individual team allocations may differ. The information herein does not contend to address the financial objectives, situation or specific needs of any individual investor. The signals represent the Portfolio Solutions Group view on each asset class.

## Points of Focus:

- 1 MBS\*/ABS is our highest conviction fixed income O/W.
- 2 Remain U/W IG given poor risk asymmetry to spreads.
- 3 Remain O/W Treasury Inflation-Protected Securities (TIPS) as there is scope for inflation expectations to rise in 2026.
- 4 Within European government bonds, we are O/W peripherals and U/W core.
- 5 O/W Bank Loans given high carry and solid growth backdrop.

## TOP VIEWS: POSITIONING

## Global Equity



## Points of Focus:

- 1 Remain O/W U.S. given positive trends in growth. Remain O/W U.S. industrial policy beneficiaries.
- 2 Targeted exposure in Europe; neutral overall but O/W banks, O/W German fiscal policy beneficiaries.
- 3 Preference for U.S. large-caps vs. small-/mid-caps; targeted mid-cap exposure in Germany.
- 4 Overweight cyclicals in the U.S. and Europe, given exposure to structural policy-driven growth tailwinds.

For informational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The tactical views expressed above are a broad reflection of our team's views and implementations, expressed for client communication purposes. Individual team allocations may differ. The information herein does not contend to address the financial objectives, situation or specific needs of any individual investor. The signals represent the Portfolio Solutions Group view on each asset class.

## TOP VIEWS: KEY PORTFOLIO THEMES

INVESTMENT THEME	DESCRIPTION	IMPLEMENTATION
Global Fiscal Expansion	Most major countries will likely benefit from positive fiscal impulses in the coming 1-2 years. Partly spurred by Trump, partly by industrial policy.	<ul style="list-style-type: none"> <li>• U/W Duration</li> <li>• O/W TIPS vs. Nominals</li> </ul>
EU Investment Renaissance	After decades of underinvestment, the EU, led by Germany, is expanding fiscal capacity.	<ul style="list-style-type: none"> <li>• O/W EU Banks</li> <li>• O/W German Fiscal Policy Beneficiaries</li> <li>• O/W Credit</li> </ul>
U.S. Productivity Boom	The adoption of AI, tax incentives, deregulation and shrinking public-sector employment will likely lead to a productivity-driven boom.	<ul style="list-style-type: none"> <li>• O/W U.S. Equities</li> <li>• O/W U.S. Industrial Policy Beneficiaries</li> <li>• O/W AI Adopters (Defense)</li> <li>• O/W Bank Loans</li> </ul>
Corporate Credit Is Expensive	Corporate spreads offer poor risk/reward in the current environment, with default rates still reasonably high.	<ul style="list-style-type: none"> <li>• U/W IG</li> <li>• O/W Structured and EM Debt</li> </ul>
Preference for EU Over U.S. High Yield	Lower default rates, wider spreads with likely higher hedged yields.	<ul style="list-style-type: none"> <li>• O/W EU HY vs. U/W U.S. HY</li> </ul>

Source: MSIM. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

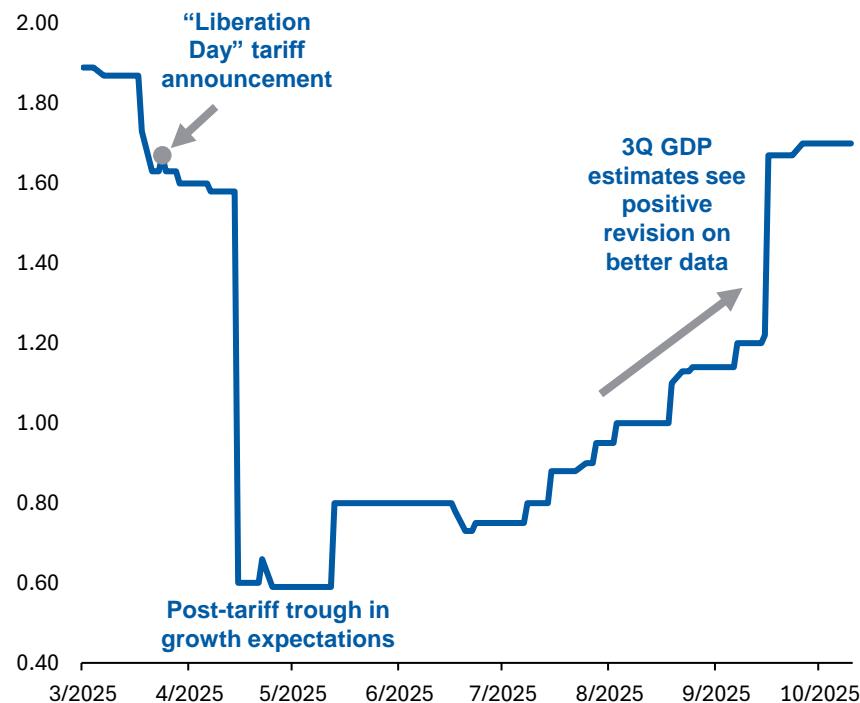
## TOP VIEWS: MACRO

## Growth Proves Resilient Despite Expectations for Peak Tariff Headwinds

Against expectations for weaker growth due to tariff headwinds, 2H25 GDP estimates continue to be revised higher, with both consumer spending and investment trending stronger than anticipated.

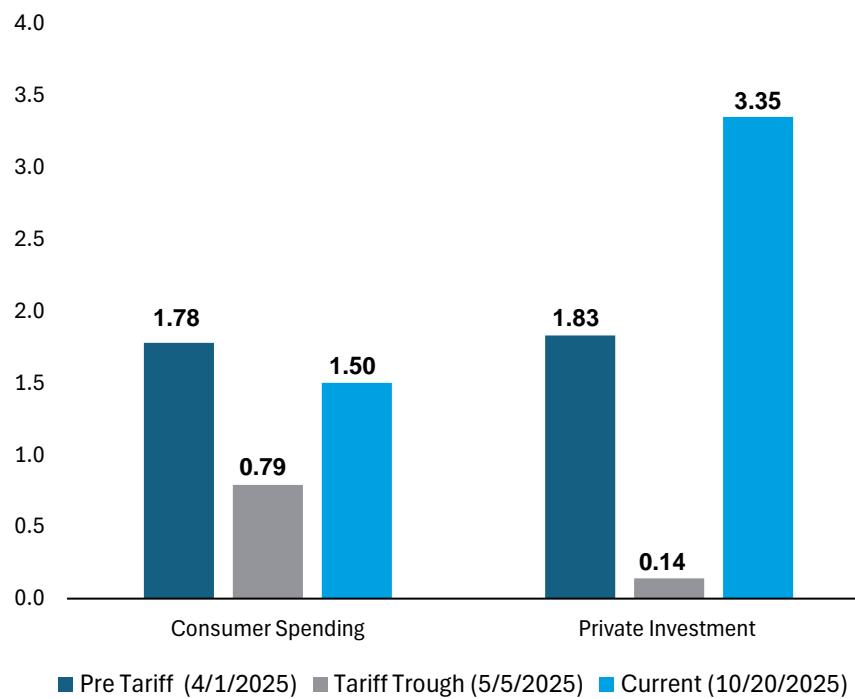
## Feared Slowdown Fails to Materialize in 3Q25 ...

US 3Q25 GDP forecast, QoQ % seasonally adjusted annual rate (SAAR)



## ... With Consumption and Investment Better-Than-Expected

3Q25 consumer spending and investment QoQ % SAAR



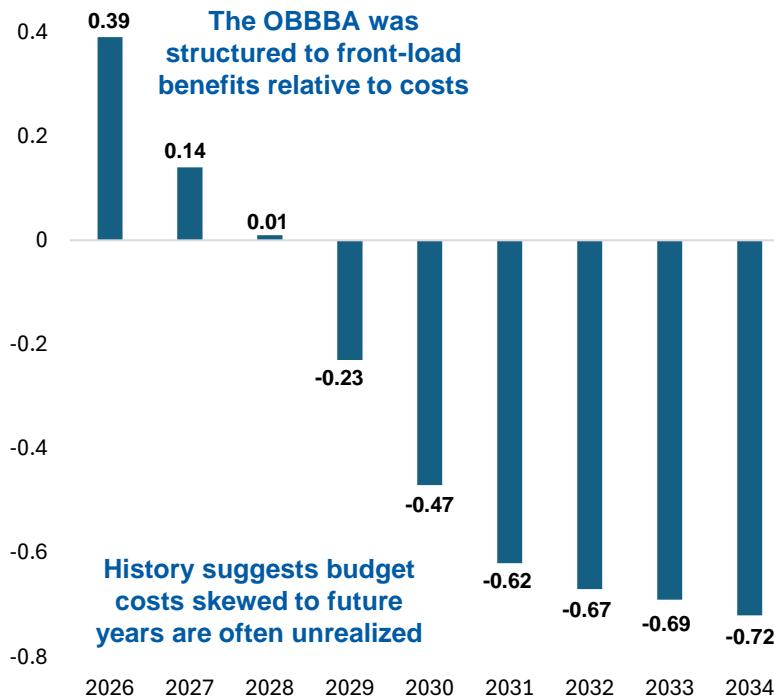
Source: Bloomberg, MSIM. As October 20, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

TOP VIEWS: MACRO

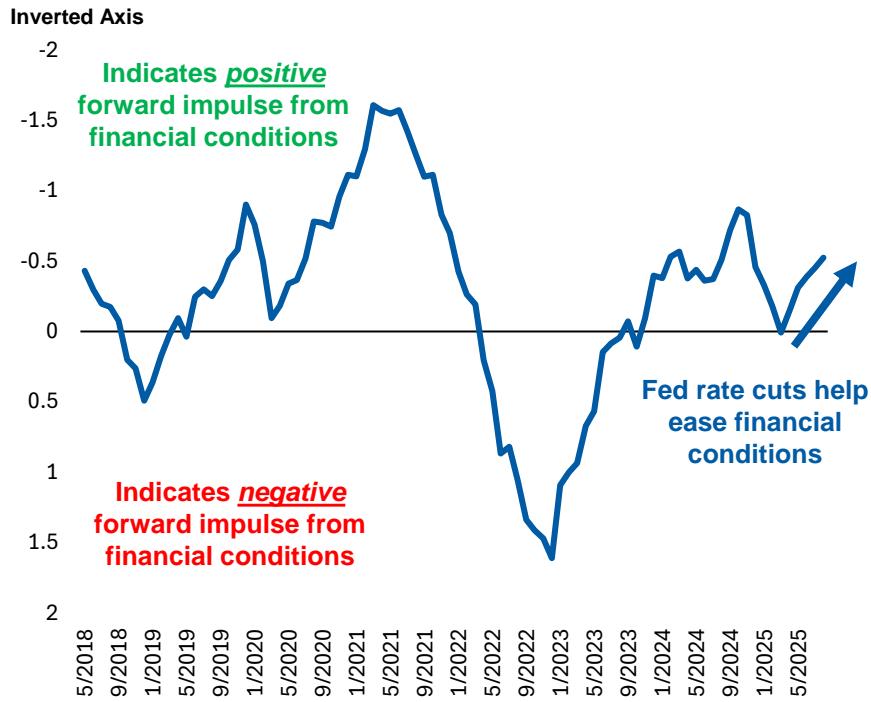
# Entering 2026 With Fiscal and Monetary Policy Tailwinds

Policy mix is supportive going into 2026, as monetary easing and fiscal policy provide GDP growth tailwinds.

**Tailwinds From the One Big Beautiful Bill Act (OBBA) Were Front-Loaded, Providing a Net Fiscal Tailwind in 2026**  
 OBBBA: *Fiscal impulse estimates (% GDP)*



**Financial Conditions Add Another Support to 2026, With Fed Cutting Rates Entering the Year**  
 U.S. Fed financial conditions, monthly, one-year look back



Source: MS Research, Congressional Budget Office (CBO), Bloomberg, MSIM. As of July 15, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

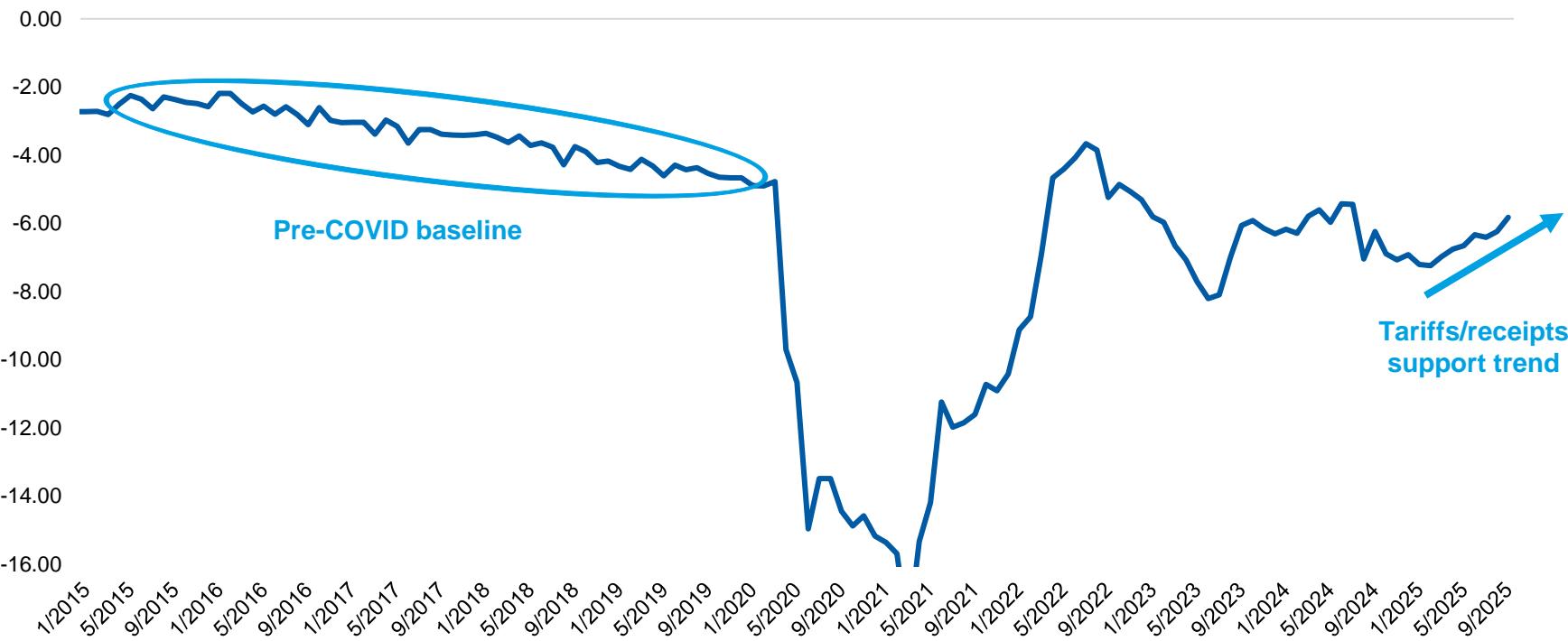
## TOP VIEWS: MACRO

## Fewer Federal Outlays and Increased Receipts Help Reduce Deficit

In January, the Congressional Budget Office expected the 2025 federal deficit to be \$1.9 trillion. But it was incrementally better than expected at \$1.77T, or 5.9% of GDP, with tariff revenue a contributor.

## Federal Budget Deficit: Predominantly Led by Receipts

U.S. Treasury federal budget deficit as a % of nominal GDP



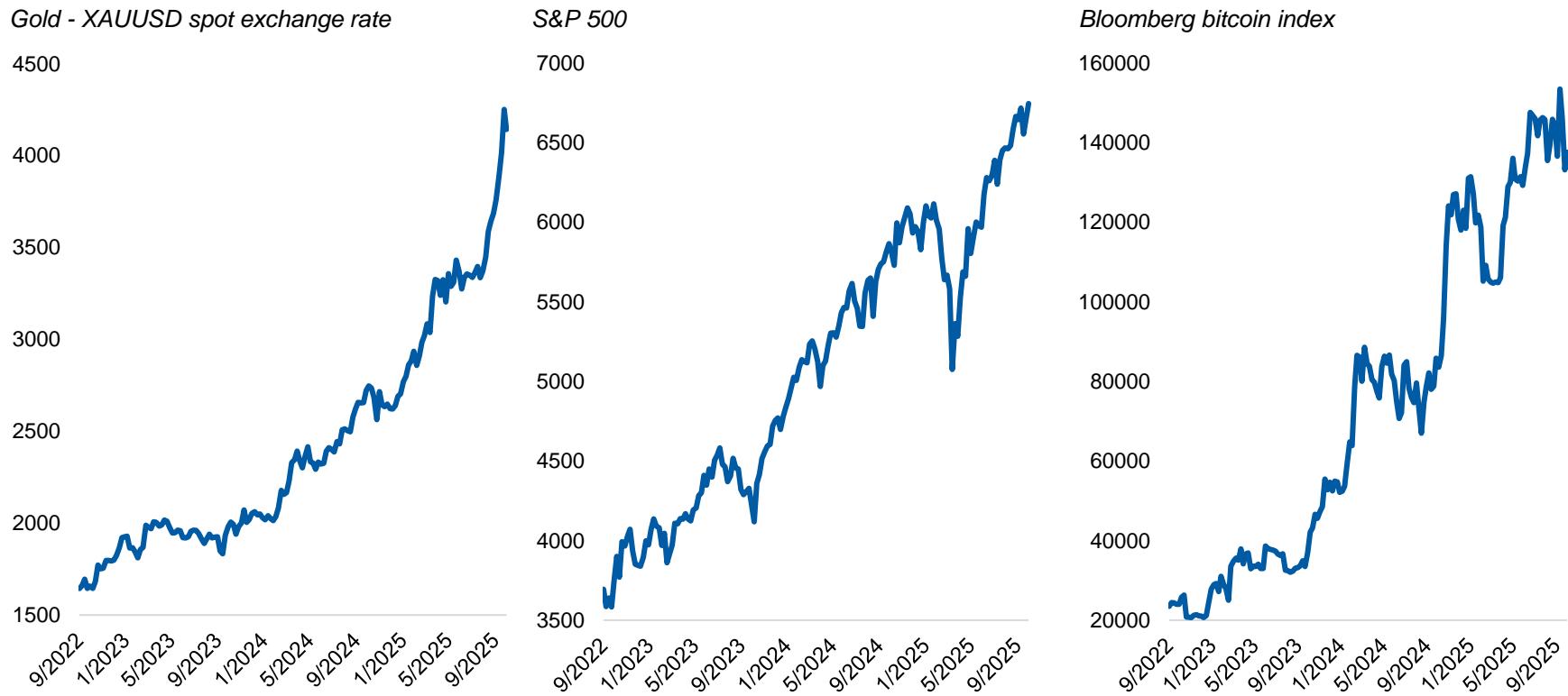
Source: Bloomberg, MSIM. As of October 23, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

## TOP VIEWS: MACRO

## Equities, Gold and Crypto May All Benefit From USD Concerns

While the unsustainable trajectory of U.S. debt is not new, it has drawn increased focus with a consequent recognition that monetary debasement is a probable component of the ultimate solution – supporting demand for assets offering protection.

## Gold, Equities and Cryptocurrency Have All Seen Strong Performance – One Common Thread Is Long-Term Inflation Protection



Source: Bloomberg, MSIM. As of October 23, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

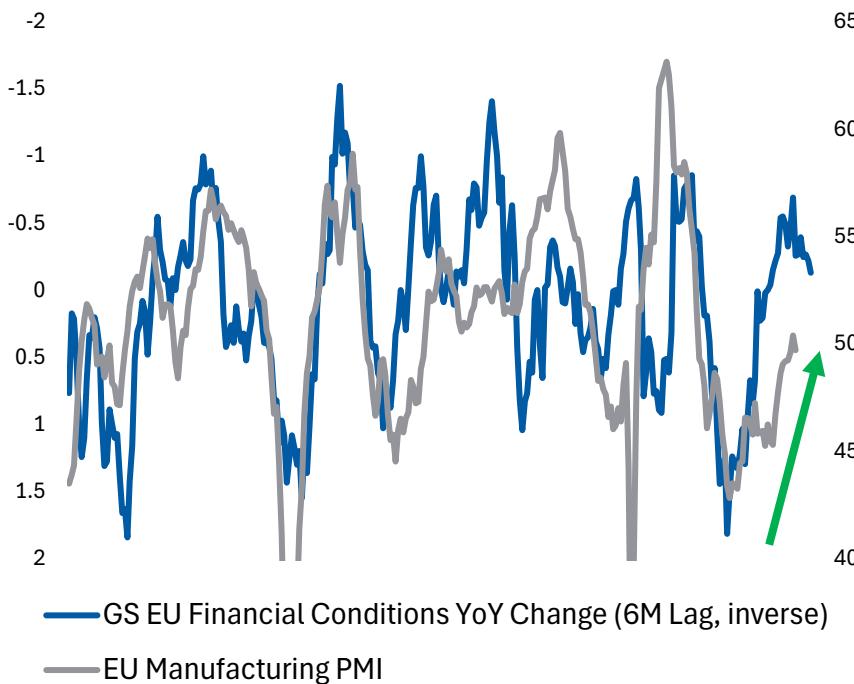
TOP VIEWS: MACRO

## European Manufacturing Still on Track for a Recovery Into 2026

Recent disappointing manufacturing data reflects weakness after a frontloading of orders due to tariff uncertainty. We see this as a temporary effect that should not derail a recovery supported by monetary easing and fiscal impulse ramping up in 2026.

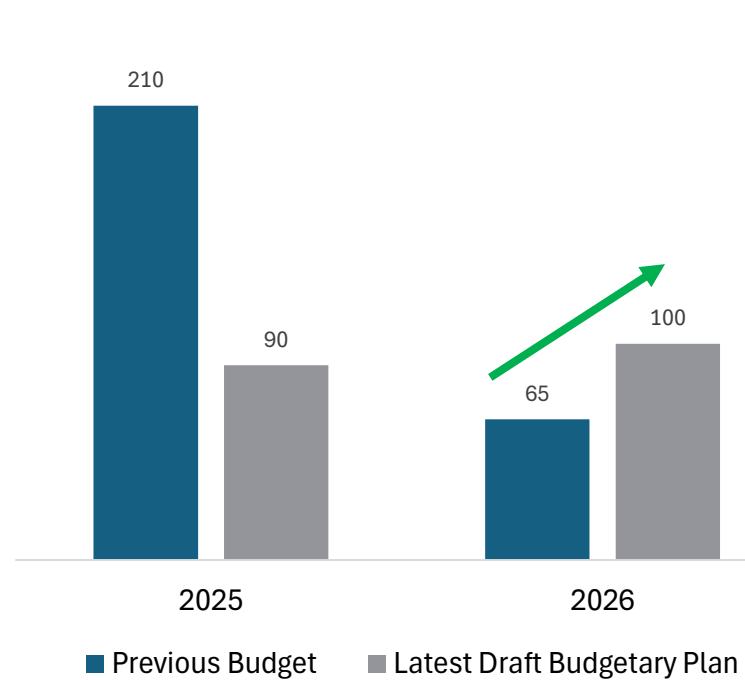
### Rate Cuts Continue To Support a Cyclical Recovery

Eurozone PMI vs. change in financial conditions



### Latest German Draft Budget Shifts Fiscal Impulse to 2026

Change in German government deficit vs. prior year



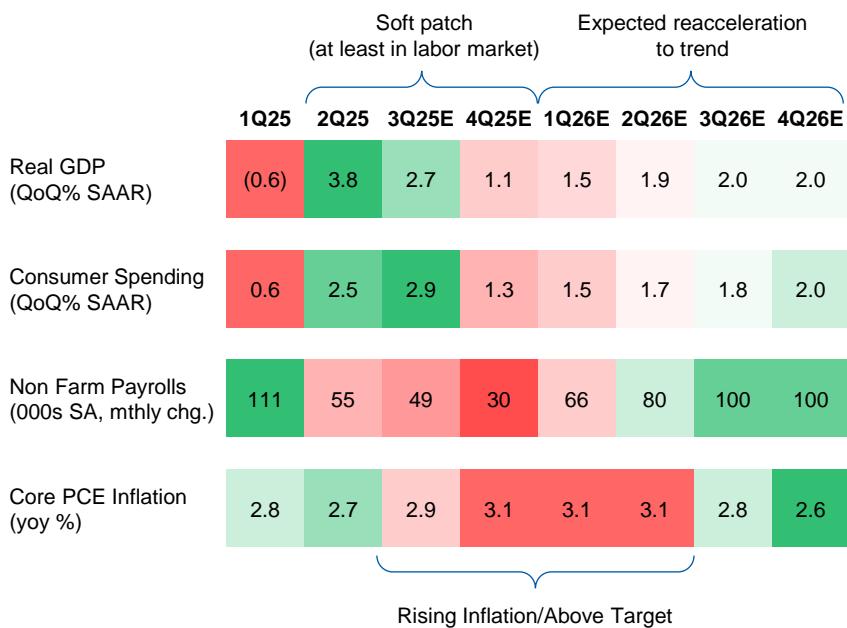
Source: Bloomberg, Goldman Sachs, German Ministry of Finance, MSIM. As of October 23, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

## TOP VIEWS: BONDS

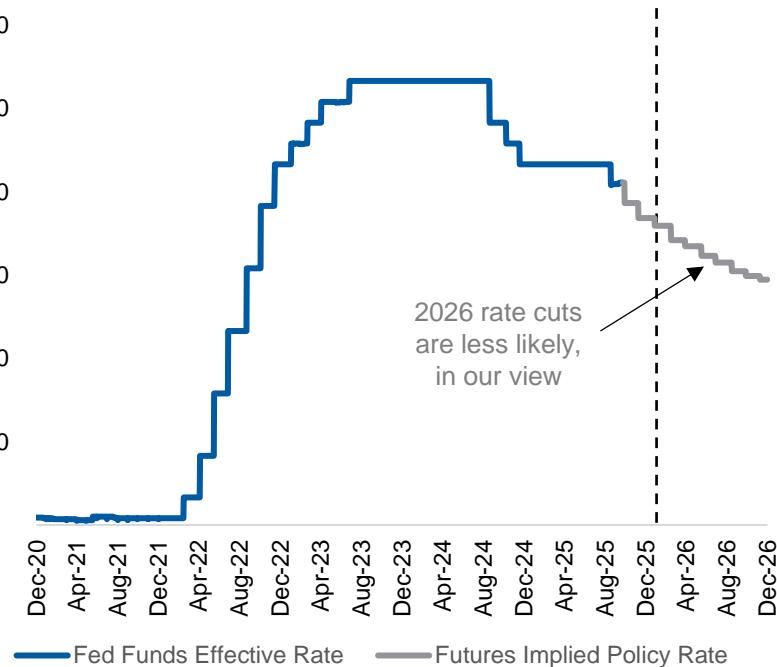
## U/W Duration as 2026 Rate Cuts Unlikely With Accelerating Growth

The Fed has characterized 2025 rate cuts as insurance against a softening labor market trend. However, further cuts in 2026 seem less likely as growth reaccelerates to trend and the labor market trend firms.

**Chairman Powell Has Called Rate Cuts Insurance Against a Softer Labor Market, but Consensus Forecasts Reacceleration**  
 Consensus economic forecasts



**Market Implied Rate Cuts Through 2026 May Prove Aggressive Should Growth Reaccelerate, Easing Perceived Labor Market Risks**  
 U.S. policy rate, market implied policy rate



Source: Bloomberg, MSIM. As of October 24, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

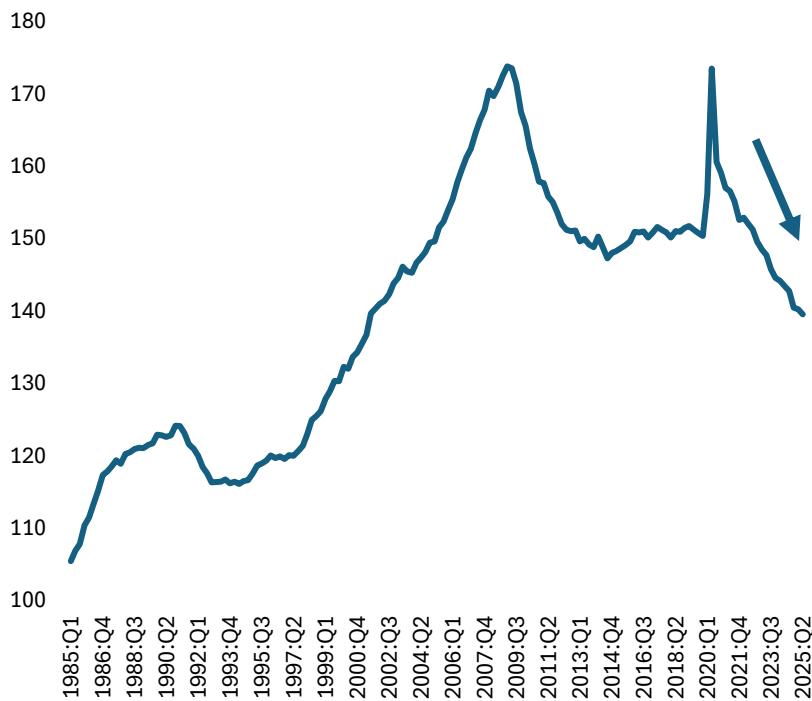
## TOP VIEWS: BONDS

# U.S. Credit Markets: Credit Fundamentals Still Healthy

Deleveraging and manageable household debt service underpin stability, while delinquencies remain below long-term averages.

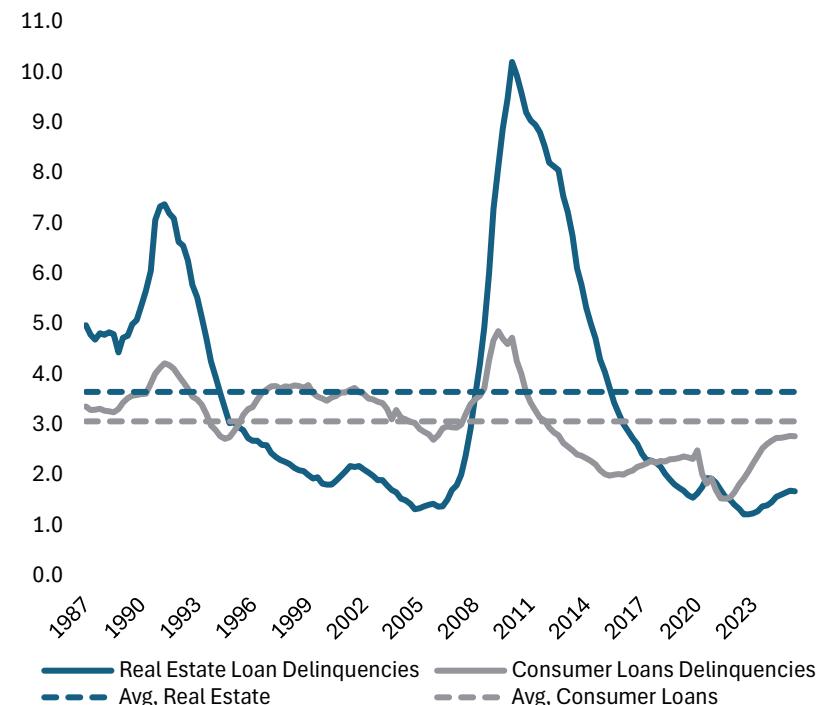
### Households Have Continued Structural Deleveraging

*U.S. household and non-financial business debt % of nominal GDP*



### Delinquencies Remain Low Relative to History

*Real estate and consumer loan delinquencies*



Source: Eaton Vance, as of August 31, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

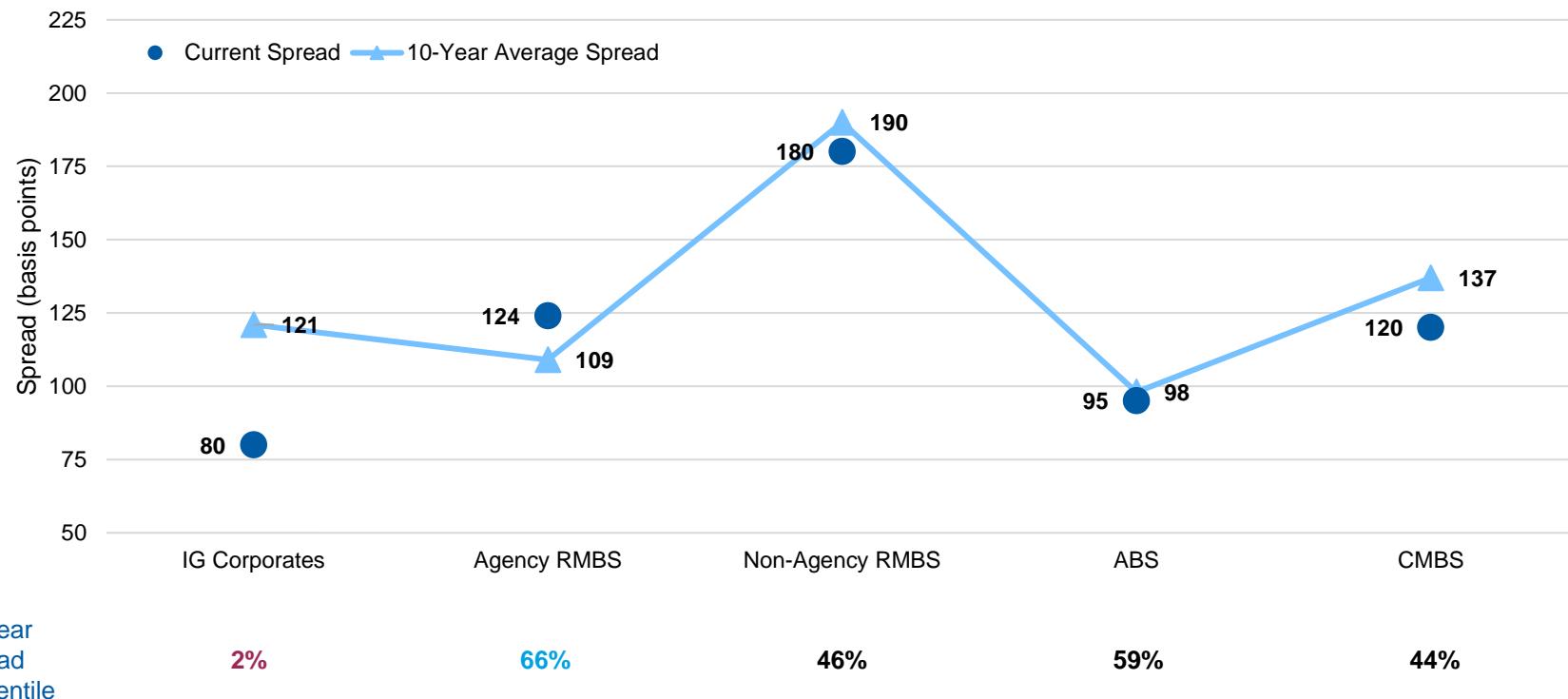
## TOP VIEWS: BONDS

## Case for Mortgage-Backed Securities and Securitized Assets

Securitized markets trade at wider spreads than other IG sectors, such as IG corporates.

## Current Spreads, 10-Year Average and 10-Year Spread Percentile

As of October 31, 2025



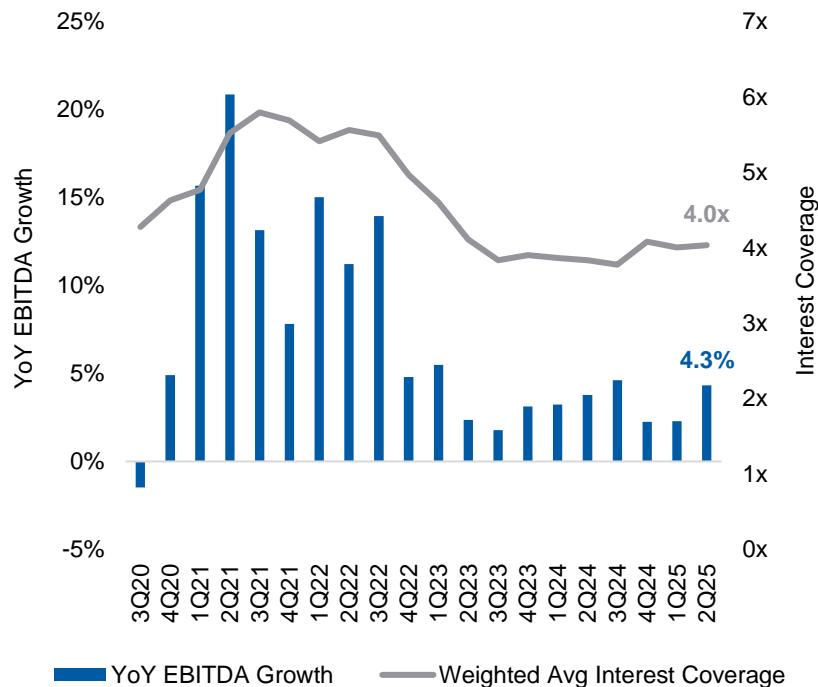
Source: Eaton Vance, as of October 31, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

## TOP VIEWS: BONDS

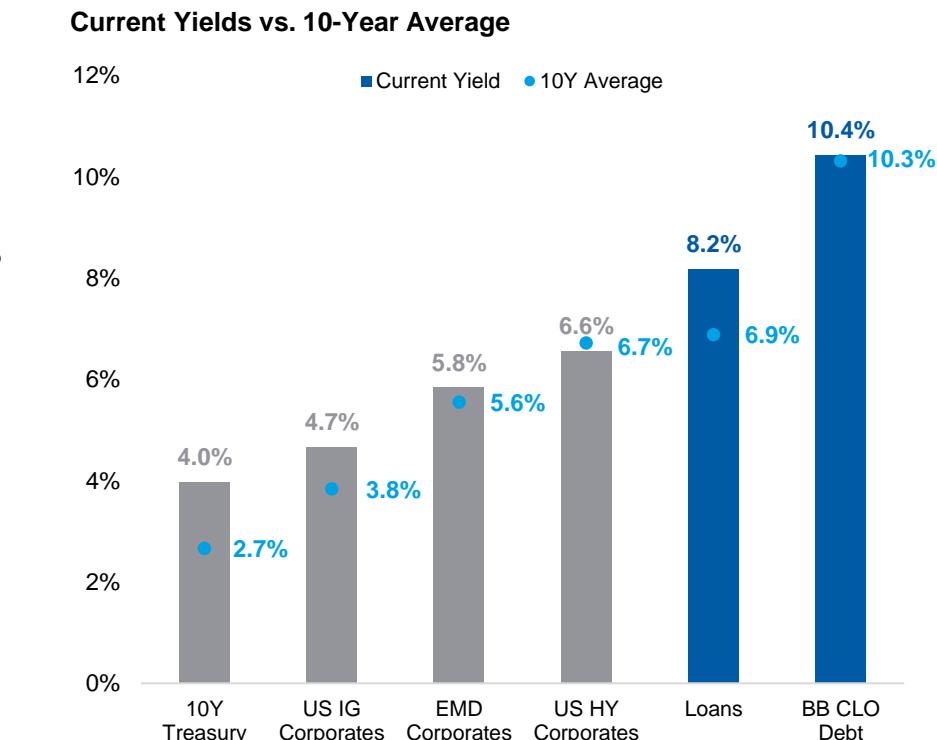
## Floating-Rate Loans Continue to Show Resilience

As the Fed cuts interest rates, fundamentals continue to improve, while the asset class offers yields of ~8%

## Earnings Growth and Interest Coverage Improving



## Current Yields vs. 10-Year Average



Source: MSIM, PitchBook LCD, ICE Data Indices LLC, J.P. Morgan. As of October 28, 2025. EBITDA stands for earnings before interest, taxes, depreciation and amortization. Loans represented by Morningstar LSTA US Leveraged Loan Index. US High Yield represented by ICE BofA US High Yield Index. US IG Corporates represented by ICE BofA US Corporate Index. 10Y Treasury represented by ICE BofA Current 10Y US Treasury Index. EMD Corporates represented by the J.P. Morgan Corp. EM Bond Index (CEMBI) Broad Diversified. BB CLOs represented by the BB portion of the J.P. Morgan CLOIE Post-Crisis Index. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

## TOP VIEWS: BONDS

# Municipal Bonds: Steep n Cheap

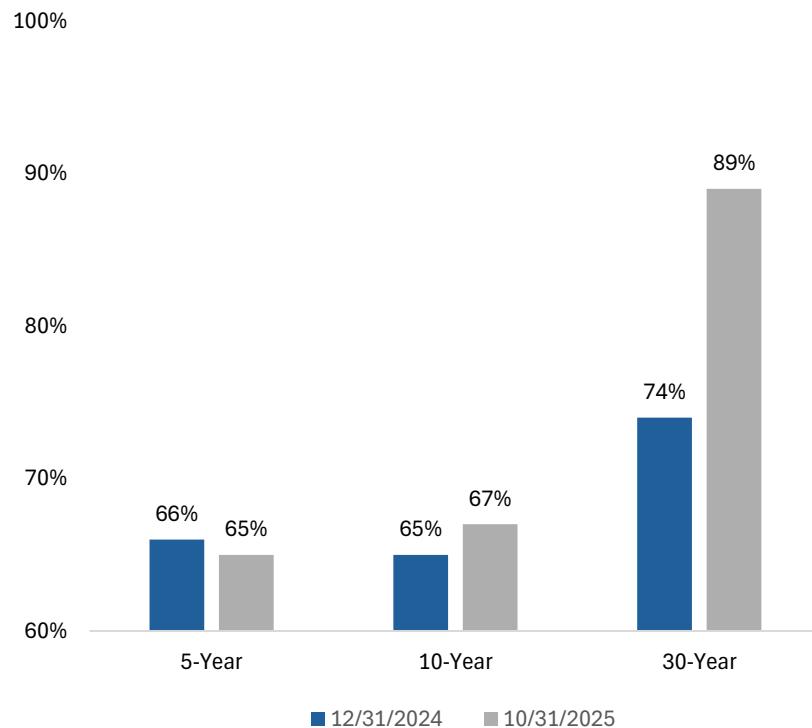
Even with the recent market strength, the curve remains steep, and, in our view, longer-duration municipals are cheap as we enter November

### MMD AAA Municipal 5s/30s Yield Curve



### Muni/Treasury Ratios

Muni/Treasury Ratios as of 12/31/24 and 10/31/2025



Source: Bloomberg. As of October 31, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

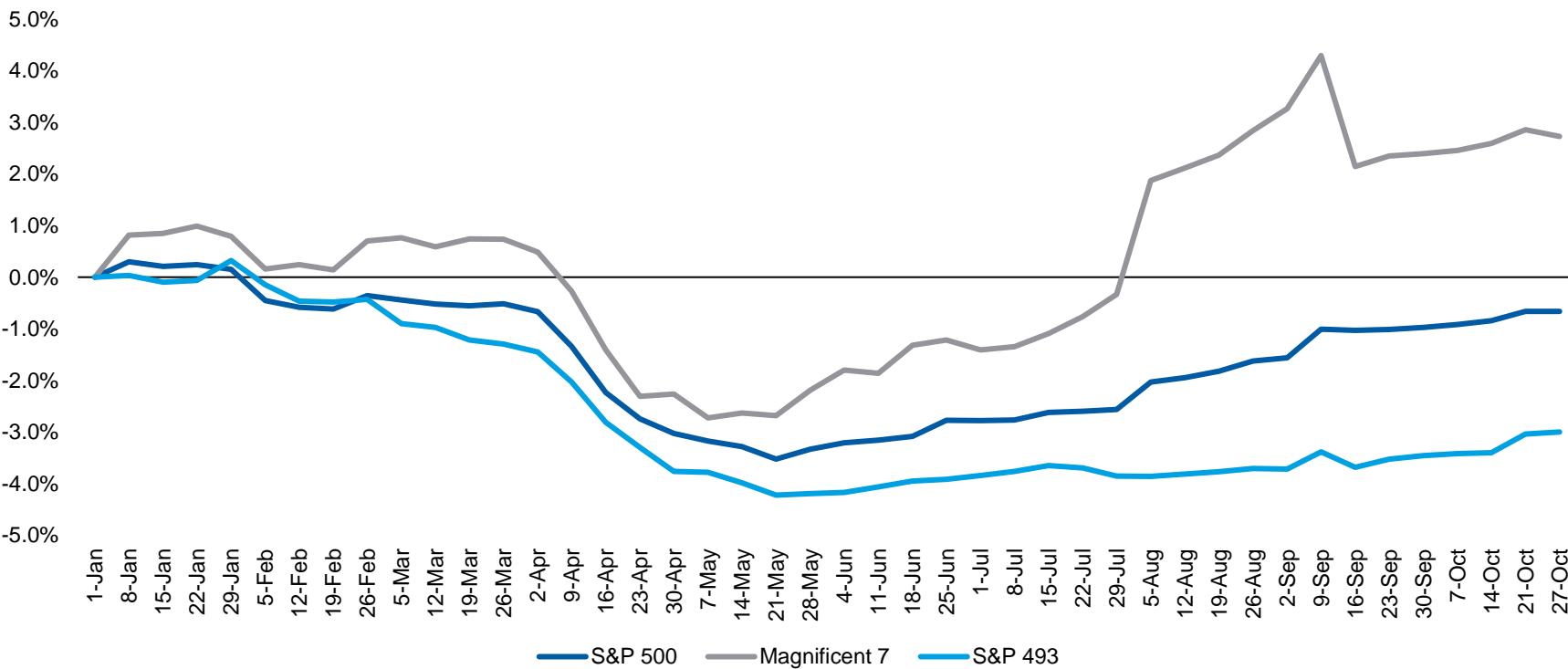
TOP VIEWS: EQUITIES

# The Mag-7 Continues To Drive Positive Earnings Revisions in the U.S.

The Mag-7\* continues to be the primary driver of positive earnings revisions. Expectations for the S&P 493 (ex. Mag-7) have not yet recovered following the April downgrades.

**Since May 2025, Mag-7 Has Driven Positive Earnings Revisions in the U.S. While the S&P 493 Is Still Stalling**

*Current-year 2026 consensus EPS revision YTD evolution*



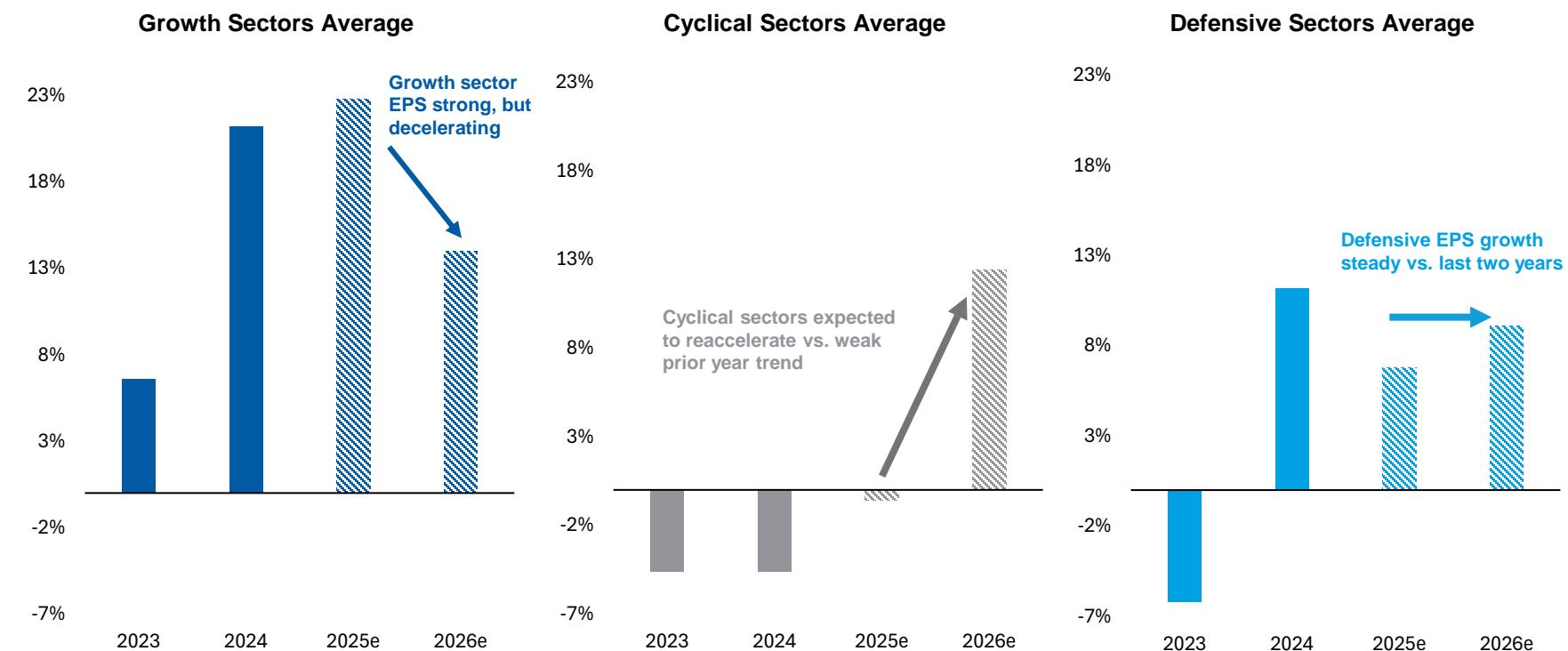
Source: Bloomberg. As of October 27, 2025. \*The Magnificent 7 (Mag-7) are Amazon, Apple, Google, Microsoft, Meta, Nvidia and Tesla. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

TOP VIEWS: EQUITIES

# EPS Needs To Be the Key Upside Driver: Framing 2026 Expectations

Tech and related sectors see solid but decelerating growth; cyclical sectors expected to accelerate relative to weak trend.

## U.S. Sector EPS Growth Rates, Consensus Estimates for 2025/2026



Source: Bloomberg, MSIM. As of October 24, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

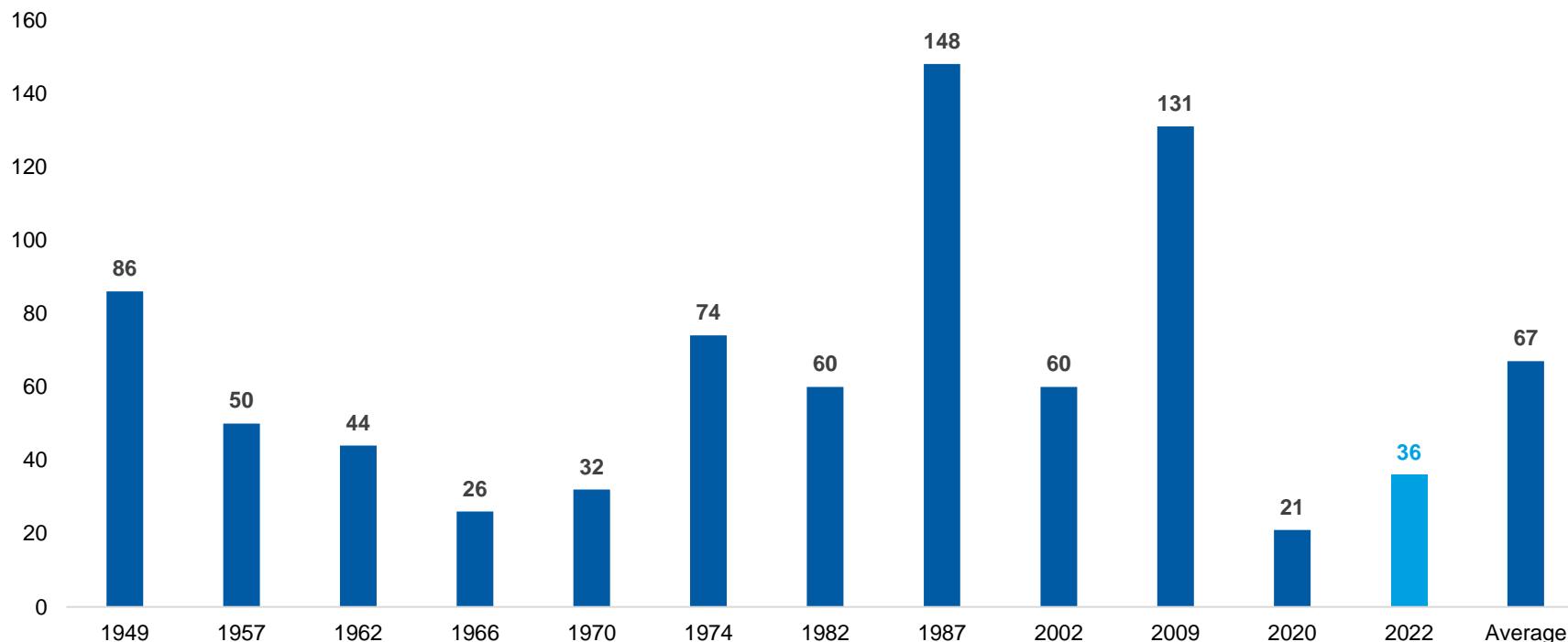
## TOP VIEWS: EQUITIES

# Current Bull Market Is Still Young Relative to Previous Cycles

The current bull market now spans 36 months, well short of the 67-month average for historical bull markets.

### Current Bull Market Is Still Relatively Young by Historical Standards

*Length of the current and previous bull markets (months)*



Source: Carson, MSIM. As of October 27, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

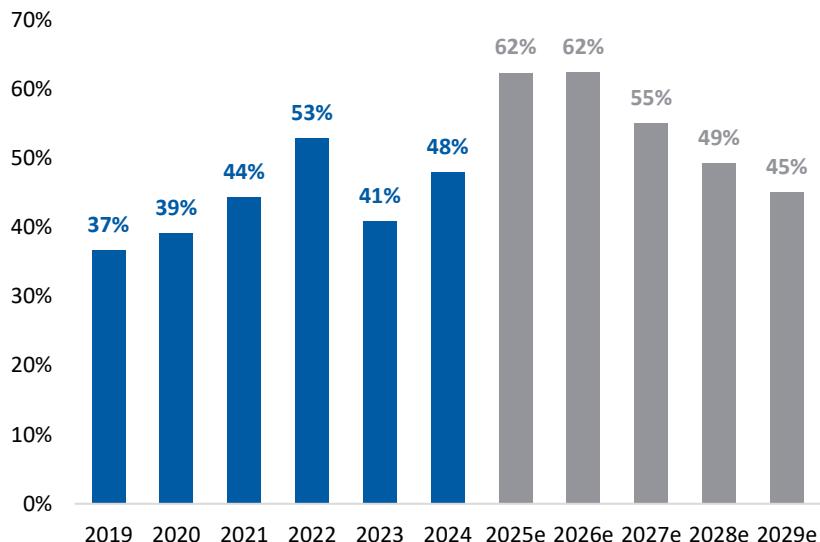
## TOP VIEWS: EQUITIES

# Funding of AI Investment a Key Distinction Relative to Dot Com Bubble

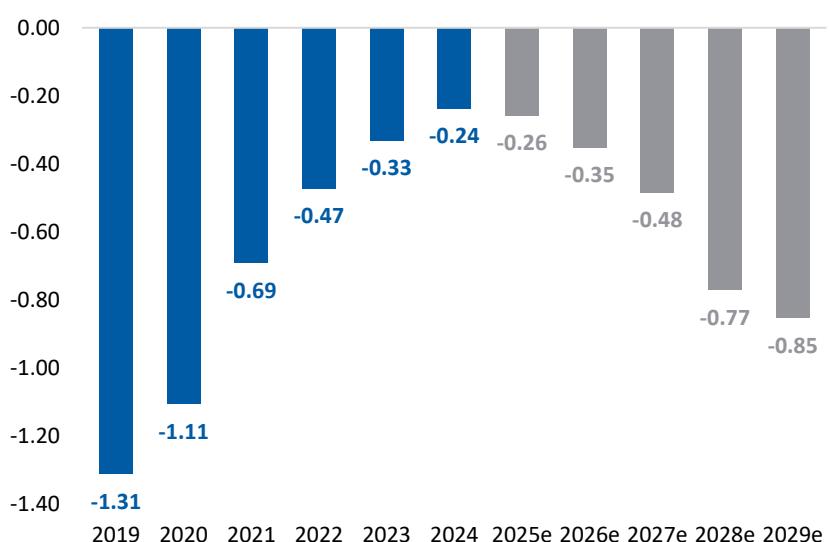
AI investment has been self-funded...what makes them reconsider the scale of investment?

Four Big Spenders: Alphabet, Amazon, Meta, Microsoft

CAPEX\* % of Operating Cash Flow



Net Debt/EBITDA (x)



**Massive amounts of CAPEX underpinning AI development have been funded through free cash flow (not debt or equity) and are not dependent on outside investment.**

Source: FactSet. As of August 31, 2025. \*Capital Expenditure. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results**

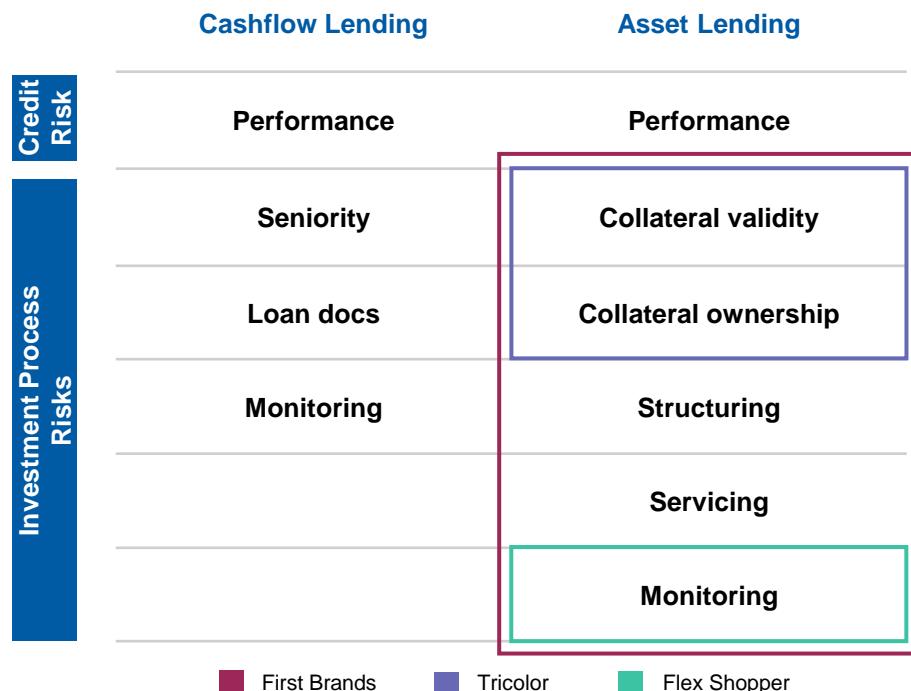
## TOP VIEWS: ALTERNATIVES

# Recent Concerns About Private Credit: Asset Lending

Are First Brands, Tricolor and Flex Shopper signs of systemic risk?

- We define Private Credit in two broad categories – Cashflow Lending and Asset Lending.
- As an asset allocator, we think of risk as credit-related and investment process-related.
- We do not think First Brands, Tricolor and/or Flex are indicative of systemic issues across Private Credit:
  - 1) From a Private Credit perspective, losses in these positions were not a result of credit risk.
  - 2) Investment processes were mainly impacted by fraud—and we do not think fraud is systemic.
  - 3) Investment processes for Asset Lending do not carry over to Cashflow Lending/Direct Lending.
- However, lending disciplines that became weaker during easier conditions could be at risk during tighter conditions.

## Where Private Credit Investors in First Brands, Tricolor and Flex Were Impacted



Source: Pitchbook. As of June 30, 2025. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

## TOP VIEWS: ALTERNATIVES

## Recent Concerns About Private Credit: Cashflow Lending

How should asset allocators react to increasing signs of credit stress in Direct Lending?

- Paid-In-Kind (PIK) interest is a loan feature where interest is not paid in cash, but instead is added to the principal balance.
- Loan terms can allow borrowers to switch between cash and PIK interest payments when they are challenged.
- Levels of PIK interest in Direct Lending portfolios have been increasing and are currently hovering around record levels.
- We believe market data shows a clear way for asset allocators to navigate this:
  - 1) Larger lenders tend to have a higher proportion of their portfolio in PIK
  - 2) Lenders with a higher focus on senior secured first liens tend to have lower PIK levels

## PIK Interest for the 15 Largest Public BDCs\*

BDC	PIK Loan (%)	AUM (\$bn)	% First Lien
Prospect	34%	6.90	70%
Barings BDC	21%	1.08	71%
Blackstone	20%	12.83	98%
FS KKR	19%	14.12	59%
Goldman Sachs	18%	3.39	96%
Golub	15%	8.62	92%
Ares	13%	27.13	59%
Oaktree	13%	2.89	81%
Bain	12%	2.47	84%
Capital Southwest	11%	1.79	90%
Morgan Stanley	9%	3.79	96%
Midcap Financial	9%	3.19	99%
New Mountain	9%	3.03	65%
Sixth Street	8%	3.41	92%
Blue Owl	7%	29.46	89%
<b>Average</b>	<b>15%</b>	<b>8.27</b>	<b>83%</b>

Source: Pitchbook. As of June 30, 2025. PIK Loan % is \$ value of loans in PIK divided by total \$ value of portfolio. \*Business Development Companies. For illustrative purposes only. Not a recommendation to buy or sell any security. It is not possible to invest directly in an index. The views and opinions expressed are those of the portfolio management team at the time of writing/of this presentation and are subject to change at any time due to market, economic or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is not indicative of future results.**

## TOP VIEWS: POSITIONING COMMENTARY

## Representative Allocations From the Portfolio Solutions Group

ASSET ALLOCATION	COMMENTARY
<b>Bonds</b>	
Duration	<b>DURATION (U/W):</b> With UST 10-year yields breaking below 4%, we remain U/W duration. We continue to believe current market pricing for Fed cuts in 2026 appears overly optimistic given the growth tailwinds to come in 2026. We see two to three additional Fed cuts (vs. expectations of 5 through 2026) but ultimately expect stronger growth and sticky inflation to limit cuts beyond that and keep long rates elevated.
Credit	<b>CREDIT (U/W):</b> With spreads sitting near all-time tights, we continue to view the risk/reward asymmetry within corporate credit as unfavorable. We retain selective exposure to higher yielding credit (MBS, Bank Loans).
<b>Equities</b>	
Risk Level	<b>EQUITIES (Neutral):</b> We continue to hold a view of balanced risks for global equities, with growing optimism as we approach 2026 with growth data continuing to display resilience amid broad expectations for tariff-induced weakness. Regionally, we remain overweight the U.S., where we see structural support for equities in the form of fiscal policy, monetary policy and productivity gains linked to adoption of AI.
<b>Alternatives</b>	
Commodities	<b>COMMODITIES (Neutral):</b> We remain neutral on energy commodity markets, as geopolitical upside risks are balanced by high spare capacity in markets such as crude, which limit upside absent physical disruptions. In the current environment we continue to see precious metals as a segment that could enjoy structural tailwinds.

For informational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The tactical views expressed above are a broad reflection of our team's views and implementations, expressed for client communication purposes. Individual team allocations may differ. The information herein does not contend to address the financial objectives, situation or specific needs of any individual investor. The signals represent the Portfolio Solutions Group view on each asset class.

## TOP VIEWS: POSITIONING COMMENTARY

## Global Fixed Income: Representative Allocations From the Portfolio Solutions Group

FIXED INCOME	COMMENTARY
<b>Bonds</b>	
U.S. Treasuries (USTs)	<b>USTs (U/W):</b> With UST 10-year yields breaking below 4%, rates are likely too low relative to the economic outlook in the U.S., where growing tailwinds support a reacceleration in 2026. The combination of stronger growth and sticky inflation likely skews the Fed to fewer cuts than what is currently priced in over the next 12-18 months.
Inflation-Linked Bonds	<b>Inflation-Linked Bonds (O/W):</b> We continue to see some value in this space, particularly on the longer sections of the curve, especially if inflation remains sticky or reaccelerates in 2026.
Eurozone Govt. Bonds	<b>Eurozone Gov. Bonds (U/W):</b> Despite inflation falling towards target, we think long-end yields in the Eurozone could continue to rise, as Germany's fiscal spending exerts steepening pressure on yield curves. Within the Eurozone, we remain O/W Spain and Portugal based on favorable growth and debt dynamics.
EM Hard Currency Govt. Bonds	<b>EM Hard Currency (O/W):</b> We remain overweight EMD despite spreads near all-time tights. Default prospects appear lower than in corporate credit while quality-adjusted spreads remain higher.
EM Local Currency Govt. Bonds	<b>EM Local Currency (Neutral):</b> EM Local continues to perform well in USD, but has not been great in other currencies, such as the euro. This supports our view that EM Local rates and currencies are fairly valued, but a view on the base currency may be more impactful for near-term returns.
<b>Public Credit</b>	
Municipal Bonds	<b>Municipal Bonds (Neutral):</b> Muni/UST ratios have remained stable after tightening in September. We still like the asset class for taxable investors, but would remain neutral at current levels.
Investment Grade (IG)	<b>Investment Grade (U/W):</b> With spreads near all-time tights, IG has poor convexity in the current environment.
MBS/ABS	<b>MBS/ABS (O/W):</b> Asset-backed securities remain our highest conviction fixed income overweight. Yield per unit of credit quality remains attractive, and the asset class continues to benefit from structural tailwinds.
High Yield (HY)	<b>High Yield (Neutral):</b> We remain U/W HY in the U.S. and O/W in Europe. European HY continues to offer a more attractive spread relative to U.S. HY in both absolute terms and adjusted for ratings differentials. We expect higher yields (owing to FX carry) and lower defaults to drive outperformance of European HY.
Bank Loans	<b>Bank Loans (O/W):</b> With economic growth prospects for 2026 looking robust, we see value in owning bank loans given the high carry associated with the asset class. Additionally, we believe loans should benefit from a repricing in the front end of the curve, which we feel is too aggressively pricing in rate cuts based on this outlook.

For informational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The tactical views expressed above are a broad reflection of our team's views and implementations, expressed for client communication purposes. Individual team allocations may differ. The information herein does not contend to address the financial objectives, situation or specific needs of any individual investor. The signals represent the Portfolio Solutions Group view on each asset class.

## TOP VIEWS: POSITIONING COMMENTARY

## Global Equity: Representative Allocations From the Portfolio Solutions Group

EQUITY	COMMENTARY
<b>Regional</b>	
U.S.	<b>United States (O/W):</b> We remain O/W U.S. equities as economic growth continues to surprise to the upside amid broad expectations for tariff-induced weakness. In addition to our core U.S. exposure, we remain O/W select industrial and construction companies given the coordinated efforts across trade, fiscal and deregulation policy to support U.S. industrial production.
Eurozone	<b>Europe (Neutral):</b> We continue to hold a positive view on structural trends in Europe, but earnings revisions at the broad index level continue to lag other regions. As such, we opt for a more targeted approach to compose our exposure and retain our O/W to European banks and German mid-caps.
Japan	<b>Japan (Neutral):</b> Japan's near-term outlook has improved with U.S. tariff concerns easing, while political uncertainty is resolved under the new Takaichi-led LDP-JIP coalition. We remain neutral, as fiscal expansion optimism appears largely priced in. We favor a selective approach to avoid structurally challenged sectors.
Emerging Markets	<b>Emerging Markets (Neutral):</b> EM is supported by resilient global growth, soft USD, benign inflation and the Fed pivoting to a cutting cycle. In China, equity risk premiums remain stable, with focus turning to U.S.-China trade talks despite recent rare earths-induced volatility. Asia's tech supply chain continues to benefit from the global AI theme. By contrast, India has faced domestic growth setbacks, AI-related headwinds and strained U.S. relations.
<b>Style</b>	
Growth vs. Value	<b>Growth vs. Value (Neutral):</b> Since mid-2022 the Growth vs. Value trade has been dictated primarily by high-beta tech exposure with Growth-style indexes outperforming Value as markets rise, and underperforming as they fall. In this context, a broadly neutral view on equities suggests a neutral view on Growth vs. Value.
Quality	<b>Quality (O/W):</b> We retain a preference for Quality with slower growth in 2025 relative to the last three years.
Large-Cap vs. Small-Cap	<b>Large-Cap (O/W):</b> We remain overweight Large-Caps in the U.S., as the cohort continues to show stronger earnings revisions trends relative to Small- and Mid-Caps (SMID). In Europe, we continue to hold Mid-Cap exposure in Germany given the structural tailwinds linked to the fiscal stimulus wave.
Cyclical vs. Defensive Sectors	<b>Cyclicals (O/W):</b> Our cyclical exposure in the U.S. and Europe rests on structural growth drivers from policy efforts.

For informational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The tactical views expressed above are a broad reflection of our team's views and implementations, expressed for client communication purposes. Individual team allocations may differ. The information herein does not contend to address the financial objectives, situation or specific needs of any individual investor. The signals represent the Portfolio Solutions Group view on each asset class.

## BONDS

# Sovereign Bond Yields

### Developed Markets

(10 yr. Yield)

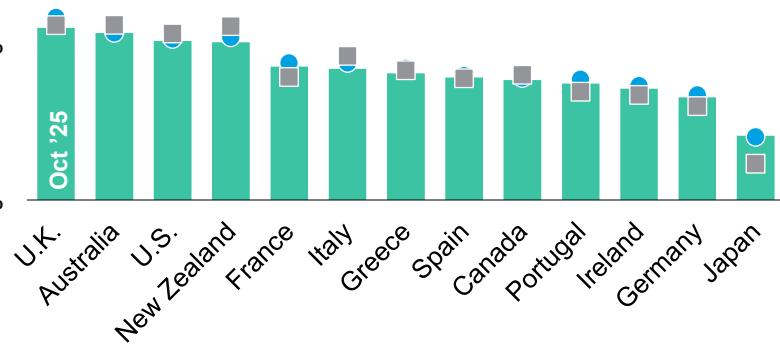
16%

12%

8%

4%

0%



### Emerging Markets

(10 yr. Yield)

16%

12%

8%

4%

0%



**Past performance is no guarantee of future results.**

It is not possible to invest directly in an index. Source: Factset as of 10/31/25. Data provided is for informational use only. See end of report for important additional information.

## BONDS

## Key Rates (%)

Security	Current	12-Mo. Ago	Average	Minimum	Maximum
1-Week SIFMA	3.22	3.24	2.54	1.86	3.22
Secured Overnight Financing Rate	4.22	4.90	4.36	4.04	4.86
1-Mo SOFR	4.00	4.66	4.31	3.96	4.65
3-Mo SOFR	3.89	4.56	4.26	3.84	4.55
2-Yr Treasury	3.60	4.16	3.93	3.42	4.39
5-Yr Treasury	3.71	4.15	4.01	3.55	4.61
10-Yr Treasury	4.09	4.28	4.33	3.95	4.79
30-Yr Treasury	4.66	4.48	4.74	4.33	5.08
2-Yr Japan	0.91	0.43	0.75	0.45	0.95
10-Yr Japan	1.65	0.94	1.40	0.93	1.69
2-Yr German Bund	1.97	2.31	1.98	1.66	2.31
10-Yr German Bund	2.64	2.42	2.56	2.04	2.91
2-Yr UK Gilt	3.78	4.48	4.07	3.75	4.60
10-Yr UK Gilt	4.43	4.50	4.58	4.22	4.89
Bloomberg US Agg	4.33	4.73	4.64	4.20	5.11
Bloomberg Global Agg	3.43	3.64	3.58	3.36	3.86
Bloomberg US Corporate	4.82	5.16	5.12	4.68	5.55
Bloomberg US Long Corporate	5.53	5.55	5.72	5.36	6.15
Bloomberg US Municipal	3.57	3.66	3.80	3.39	4.47
Bloomberg US Long Municipal	4.48	4.27	4.61	3.97	5.16
US High Yield	6.82	7.33	7.23	6.55	8.65
US Loans	8.10	9.09	8.51	8.10	9.14

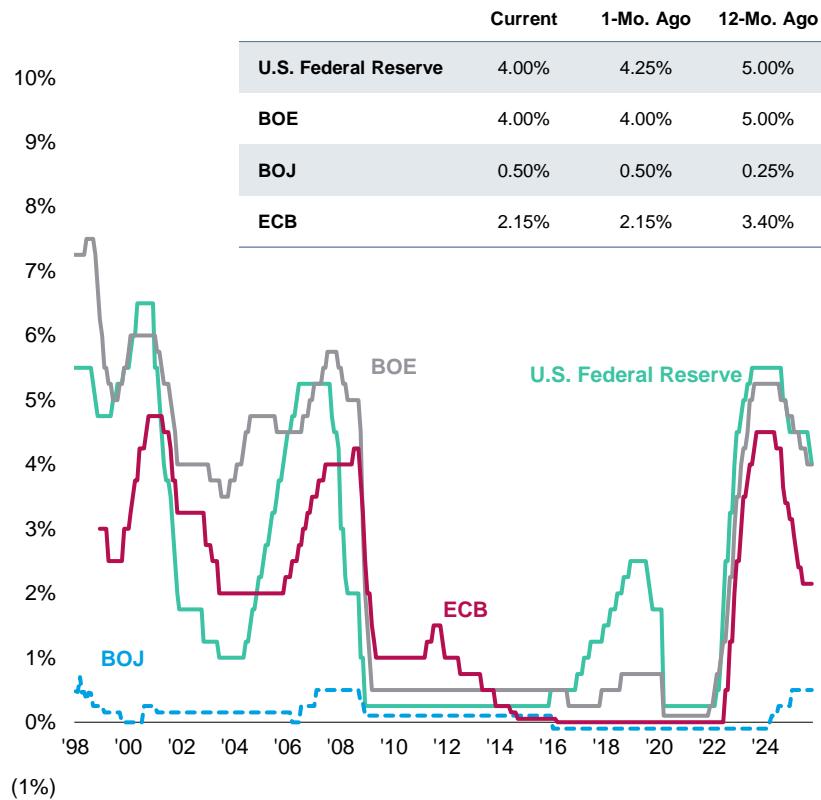
## Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: Bloomberg, Leveraged Commentary & Data (LCD), and Factset as of 10/31/25. Current represents most recent month. Average, minimum, and maximum measure a 12-month period ending most recent month. Data provided is for informational use only. US High Yield is represented by ICE BofA US High Yield Index. US Loans is represented by Morningstar LSTA U.S. Leveraged Loan Index. Bloomberg indices and ICE BofA US HY index using yield to worst. Morningstar LSTA U.S. Leveraged Loan Index using yield to maturity. SOFR is the Secured Overnight Financing Rate, a broad measure of secured overnight U.S. Treasury repo rates. See end of report for important additional information.

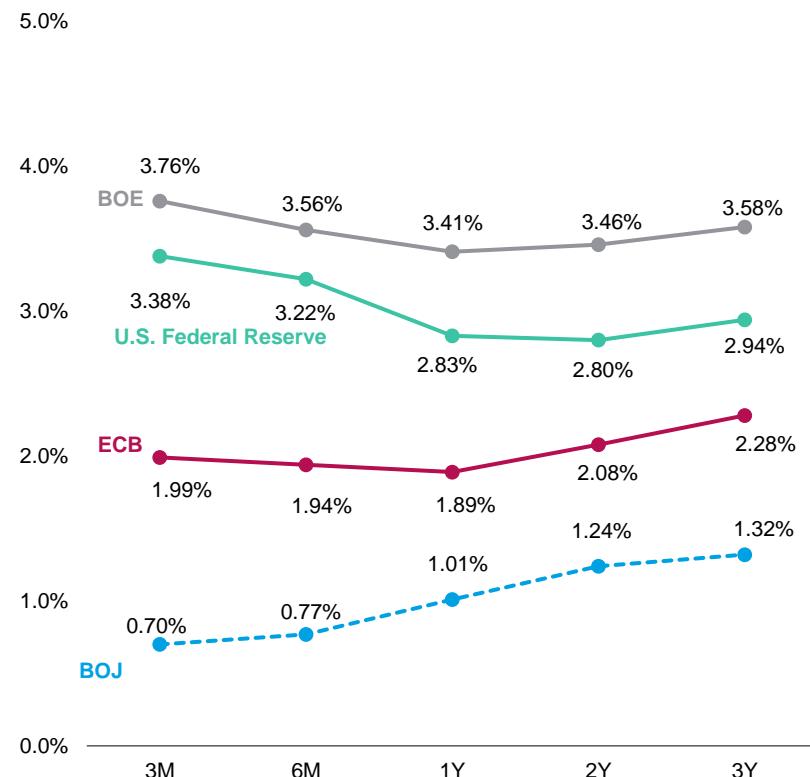
## BONDS

# Monetary Policy

### Central Bank Policy Rates



### Market Expectations for Future Central Bank Rates

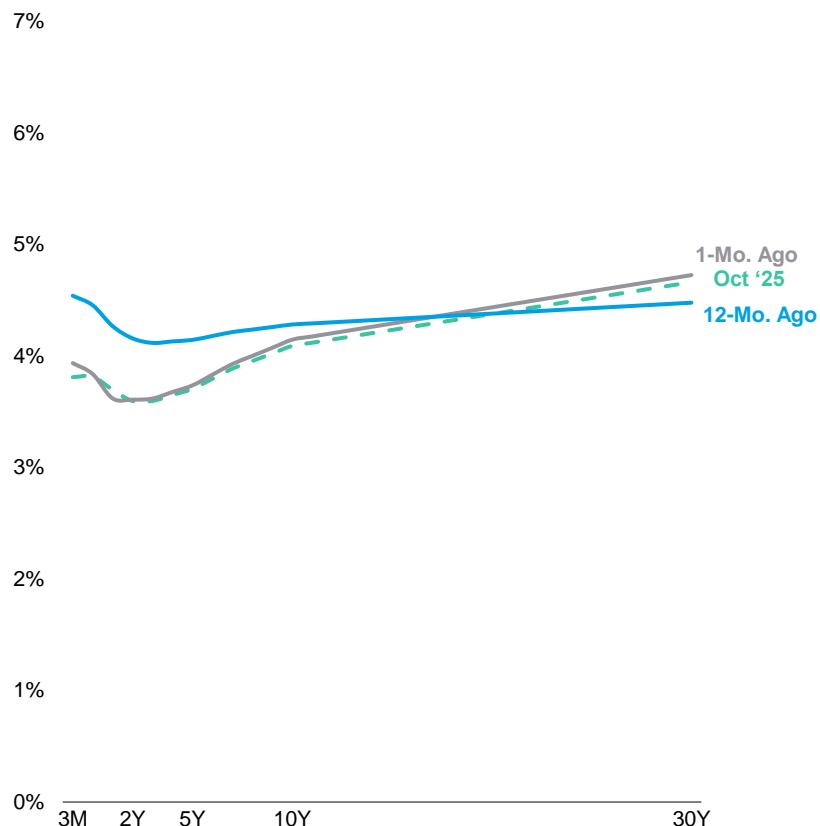


Source: Bloomberg, Factset as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

## BONDS

## U.S. Treasury Yields

## U.S. Treasury Yield Curves



Security	Yields & Performance			Total Return (%)	
	Yield (%)				
	Current	1-Mo. Ago	12-Mo. Ago	1-Mo.	12-Mo.
3-mo. Treasury	3.81	3.94	4.54	0.35	4.34
6-mo. Treasury	3.82	3.84	4.46	0.34	4.40
2-yr. Treasury	3.60	3.61	4.16	0.31	4.52
3-yr. Treasury	3.60	3.62	4.12	0.35	5.21
5-yr. Treasury	3.71	3.74	4.15	0.44	5.88
10-yr. Treasury	4.09	4.15	4.28	0.78	5.95
30-yr. Treasury	4.66	4.73	4.48	1.40	1.08

Source: Factset, Morningstar as of 10/31/25. Data provided is for informational use only. Past Performance is not a reliable indicator of future results. See end of report for important additional information.

## BONDS

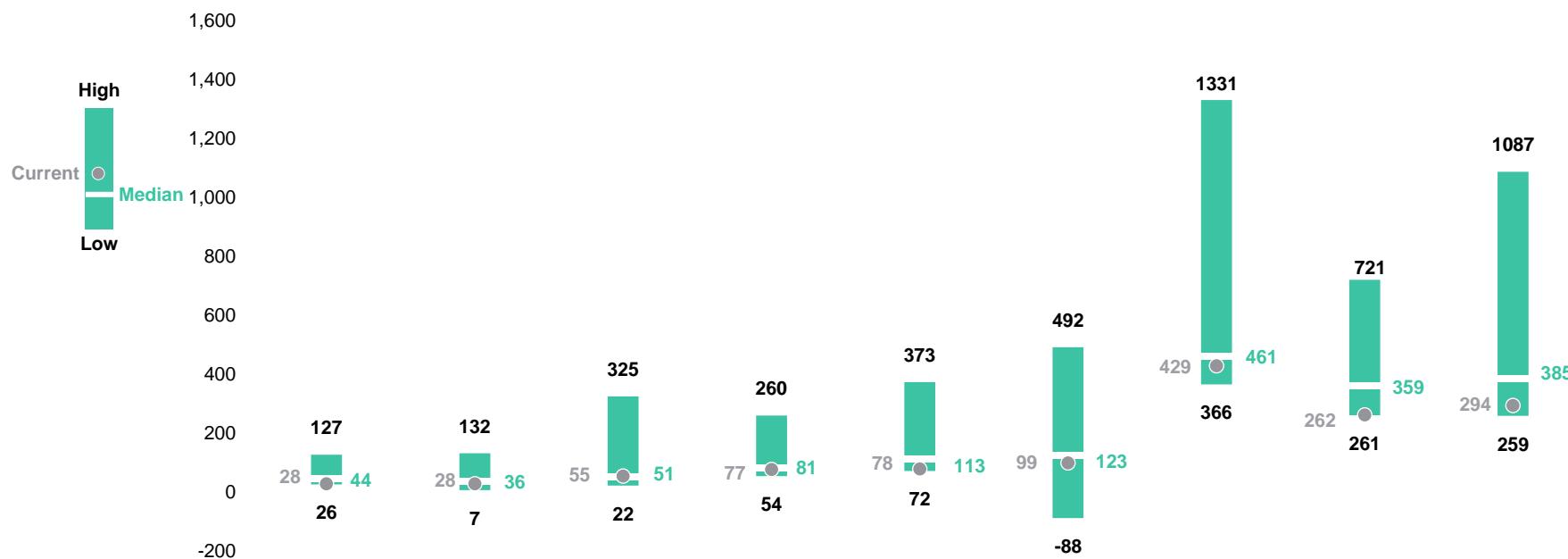
## Characteristics and Performance Analysis

Index	Averages						Total Returns (%)						
	Coupon (%)	Price (\$)	Yield to Worst (%)	Spread (bps)	Maturity (yrs.)	Duration (yrs.)	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y	10Y
<b>U.S. High Grade</b>													
<b>Bloomberg U.S. Aggregate Index</b>	3.63	94.2	4.33	28	8.2	6.0	0.62	2.94	6.80	6.16	5.60	-0.24	1.90
U.S. Treasury	3.23	94.3	3.91	—	7.8	5.9	0.62	2.54	6.01	5.19	4.26	-1.03	1.27
U.S. Mortgage Backed Securities	3.50	92.0	4.66	28	7.2	5.7	0.86	3.73	7.68	7.32	5.85	0.04	1.49
U.S. Asset Backed Securities	4.60	100.4	4.22	55	3.7	2.7	0.38	1.90	5.02	5.70	5.77	2.18	2.46
U.S. Commercial Mortgage Backed Securities	3.51	96.3	4.50	77	4.3	3.9	0.46	2.34	6.82	7.21	6.57	1.05	2.61
U.S. Corp. Investment Grade	4.45	95.4	4.82	78	10.4	6.9	0.38	2.92	7.29	6.62	7.58	0.46	3.12
<b>Bloomberg Municipal Bond Index</b>	4.65	102.7	3.57	—	13.6	6.7	1.24	4.49	3.91	4.17	5.46	1.16	2.42
<b>Bloomberg Taxable Municipal Bond Index</b>	4.45	94.5	4.78	—	14.3	7.8	1.08	3.78	7.58	6.68	7.35	0.25	3.29
<b>ICE BofA US Inflation-Linked Treasury Index</b>	1.19	94.9	1.53	—	7.6	5.4	0.37	2.39	7.19	5.91	4.54	1.42	3.02
<b>ICE BofA Preferred Index (Fixed Rate)</b>	5.56	91.9	5.64	99	—	6.4	0.01	2.92	5.47	3.42	8.34	2.49	4.12
<b>U.S. High Yield</b>													
<b>ICE BofA US High Yield Index</b>	6.58	97.7	6.82	294	4.8	2.9	0.20	2.19	7.27	8.03	10.01	5.48	5.81
<b>Morningstar LSTA U.S. Leveraged Loan Index</b>	S+3.20	96.7	8.10	429	4.6	—	0.22	1.11	4.86	6.32	9.57	6.96	5.52
<b>Emerging Markets</b>													
<b>J.P. Morgan EM Bond Index (EMBI) Global Diversified</b>	5.58	92.6	6.82	262	—	6.7	2.13	5.64	13.02	12.76	13.02	2.71	4.13
<b>J.P. Morgan Corp. EM Bond Index (CEMBI) Broad Diversified</b>	5.51	98.0	5.88	189	—	4.5	0.56	2.83	7.95	8.01	10.66	3.17	4.51
<b>J.P. Morgan Govt. Bond Index-EM (GBI-EM) Global Diversified</b>	5.68	—	5.91	—	—	5.3	0.46	4.06	15.94	13.06	11.75	2.33	3.13
<b>Global Developed Markets</b>													
<b>Bloomberg Global Aggregate Ex-U.S. Index</b>	2.37	96.0	2.66	26	8.3	6.8	-0.97	0.98	8.30	5.22	5.46	-2.82	0.35
<b>FTSE World Government Bond Index</b>	2.65	—	3.25	—	—	6.8	-0.27	1.71	7.14	4.95	4.54	-3.04	0.38
<b>ICE BofA European Union Government Bond Index</b>	2.22	94.0	2.77	35	8.8	7.2	-0.87	1.80	12.95	8.59	8.00	-2.90	0.37
<b>ICE BofA Developed Mkts HY Ex-Sub Fincl Index (USD Hedged)</b>	6.31	97.9	6.48	310	3.7	2.9	0.21	1.98	7.10	8.00	10.38	5.62	5.87
<b>Bloomberg Euro-Aggregate Corporates (EUR)</b>	2.74	98.5	3.01	77	5.1	4.4	0.70	1.11	3.48	4.70	5.79	0.29	1.48
<b>Bloomberg Pan-European High Yield Euro (EUR)</b>	5.04	99.1	5.35	273	4.1	3.4	0.08	0.79	4.73	6.02	9.35	4.27	4.00

**Past performance is no guarantee of future results.** It is not possible to invest directly in an index. Source: Bloomberg, J.P. Morgan, ICE BofA Data Indices, LLC, Factset, and Leveraged Commentary & Data (LCD), as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. Yield to maturity is shown for the Morningstar LSTA U.S. Leveraged Loan Index and the FTSE World Government Bond Index. S+ refers to SOFR (Secured Overnight Financing Rate) as the base rate. Loan Index spread represents the three-year discounted spread over SOFR. Returns of the ICE BofA Developed Mkts HY Ex-Sub Financial Index are USD Hedged. The averages for the index are unhedged. Returns and averages for the Bloomberg Euro-Agg Corps and Bloomberg Pan-Euro HY indices are in EUR (unhedged).

## BONDS

# Spread Analysis (bps)



	Aggregate	MBS	ABS	CMBS	Corporate	Preferred	Floating-Rate Loans	Emerging Markets (USD)	High Yield
<b>Max Spread Date</b>	3/20/2020	3/19/2020	3/26/2020	3/25/2020	3/23/2020	3/23/2020	3/20/2020	3/23/2020	3/23/2020
<b>Min Spread Date</b>	9/15/2025	4/14/2021	6/21/2021	6/21/2021	9/19/2025	12/6/2017	4/20/2018	2/1/2018	1/22/2025
<b>Spread on 12/31/24</b>	34	43	44	80	80	77	424	325	292
<b>Spread on 12/31/23</b>	42	47	68	126	99	148	490	384	334
<b>Spread on 12/31/22</b>	51	51	76	120	130	227	645	452	479

**Past performance is no guarantee of future results.** It is not possible to invest directly in an index. Source: Factset and Leveraged Commentary & Data (LCD) as of 10/31/25. Spread history measures past 10 years. Data provided is for informational use only. See end of report for important additional information. All fixed-income spreads are in basis points and measure option-adjusted yield spread relative to comparable maturity U.S. Treasuries using daily data. Aggregate represented by Bloomberg US Aggregate Index. MBS represented by Bloomberg U.S. Mortgage Backed Securities (MBS) Index. ABS represented by Bloomberg U.S. Asset Backed Securities (ABS) Index. CMBS represented by Bloomberg U.S. CMBS Investment Grade Index. Corporate represented by Bloomberg U.S. Corporate Investment Grade Index. Preferred represented by ICE BofA Fixed Rate Preferred Securities Index. Floating-Rate Loans represented by Morningstar LSTA U.S. Leveraged Loan Index. Loan Index spread represents the three-year discounted spread over SOFR (Secured Overnight Financing Rate). Emerging Markets(USD) represented by J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified. High Yield represented by ICE BofA US High Yield Index.

## BONDS

## Corporate Bond Market Update

	Averages						Total Returns (%)						
	Coupon (%)	Price (\$)	Yield to Worst (%)	Spread (bps)	Maturity (yrs.)	Duration (yrs.)	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y	10Y
<b>U.S. High Grade</b>													
Bloomberg U.S. Corp. Investment Grade Index	4.45	95.4	4.82	78	10.4	6.9	0.38	2.92	7.29	6.62	7.58	0.46	3.12
AAA Index	3.52	84.4	4.64	35	17.2	10.3	0.36	3.26	6.67	4.48	5.30	-2.29	2.05
AA Index	3.80	91.2	4.56	46	12.3	7.8	0.35	2.86	6.61	5.54	6.17	-0.89	1.90
A Index	4.34	95.6	4.68	65	10.3	6.9	0.47	2.95	7.35	6.49	7.12	0.05	2.75
BBB Index	4.69	96.2	5.00	98	10.2	6.7	0.31	2.90	7.35	6.95	8.27	1.10	3.67
<b>U.S. High Yield</b>													
ICE BofA U.S. High Yield Index	6.58	97.7	6.82	294	4.8	2.9	0.20	2.19	7.27	8.03	10.01	5.48	5.81
BB Index	5.96	99.9	5.71	179	5.0	3.2	0.46	2.48	7.74	8.17	9.04	4.65	5.54
B Index	7.32	99.9	6.93	307	4.6	2.7	-0.06	1.91	6.67	7.51	9.67	5.22	5.45
CCC Index	7.39	82.4	12.37	865	4.0	2.6	-0.42	1.50	6.60	8.54	14.66	9.41	7.49
Morningstar LSTA U.S. Leveraged Loan Index	S+3.20	96.7	8.10	429	4.6	-	0.22	1.11	4.86	6.32	9.57	6.96	5.52
BBB Index	S+1.85	100.1	5.88	183	5.2	-	0.48	1.50	5.24	6.53	7.70	5.82	4.58
BB Index	S+2.45	99.3	6.68	271	5.0	-	0.32	1.31	5.05	6.62	8.48	6.41	4.81
B Index	S+3.44	97.8	8.12	425	4.6	-	0.28	1.16	5.01	6.56	10.38	7.27	5.85
CCC Index	S+4.79	79.3	18.69	1475	3.5	-	-0.20	-0.00	3.25	3.38	9.26	7.23	6.74
D Index	-	27.3	-	-	-	-	-12.80	-9.62	-23.00	-21.88	-23.72	-21.83	-16.46

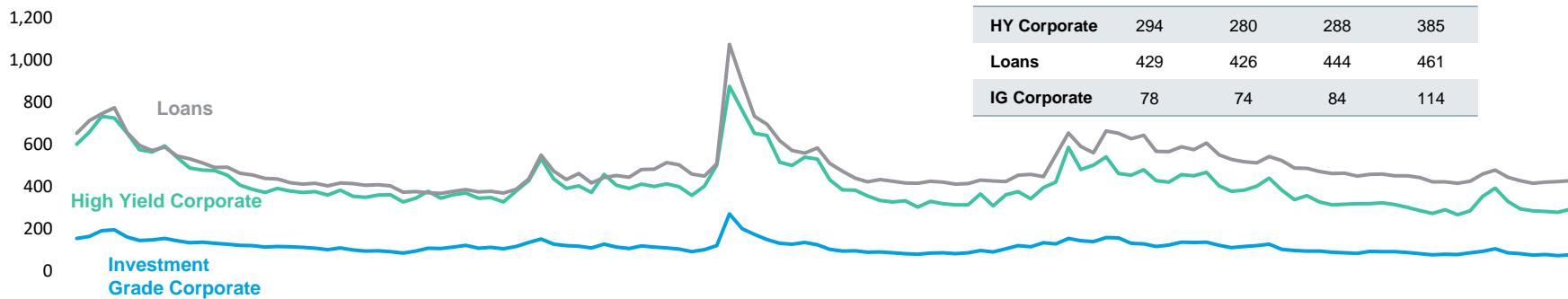
## Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: Bloomberg, J.P. Morgan, ICE BofA Data Indices, LLC, Factset, and Leveraged Commentary & Data (LCD), as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. Yield to maturity is shown for the Morningstar LSTA U.S. Leveraged Loan Index. S+ refers to SOFR (Secured Overnight Financing Rate) as the base rate. Loan Index spread represents the three-year discounted spread over SOFR.

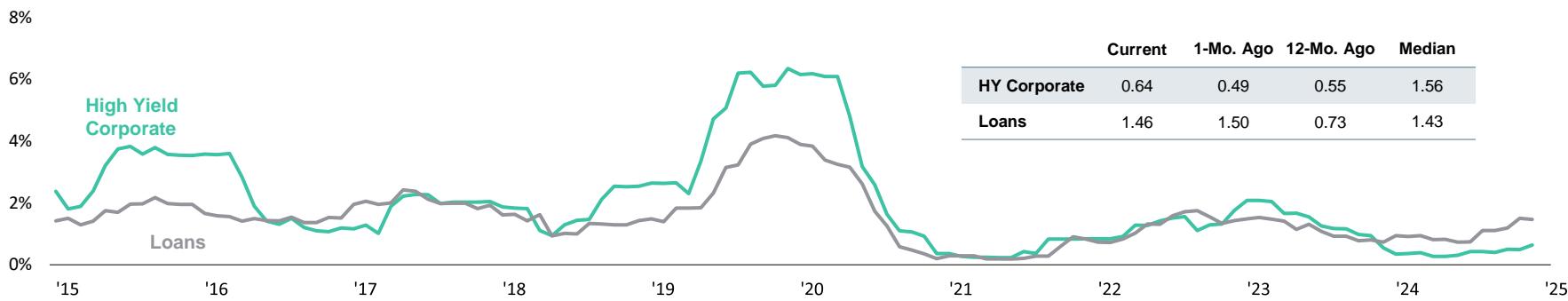
## BONDS

## Corporate Bond Market Update

## Average Spread (bps)



## Annual Default Rate



## Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: J.P. Morgan and Leveraged Commentary & Data (LCD), as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. Corporate spreads are in basis points and measure option-adjusted yield spread relative to comparable maturity U.S. Treasuries. Loan Index spread represents the three-year discounted spread over SOFR (Secured Overnight Financing Rate).

## BONDS

## Municipal Bond Market Update

	Averages					Total Returns (%)						
	Coupon (%)	Price (\$)	Yield To Worst (%)	Maturity (yrs.)	Duration (yrs.)	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y	10Y
<b>Bloomberg Municipal Bond Index</b>	<b>4.65</b>	<b>102.7</b>	<b>3.57</b>	<b>13.6</b>	<b>6.7</b>	<b>1.24</b>	<b>4.49</b>	<b>3.91</b>	<b>4.17</b>	<b>5.46</b>	<b>1.16</b>	<b>2.42</b>
AAA Index	4.60	103.8	3.42	13.2	6.9	1.22	4.62	3.89	4.14	4.94	0.72	2.01
AA Index	4.66	103.7	3.44	13.3	6.5	1.23	4.37	3.87	4.17	5.14	0.95	2.22
A Index	4.65	101.2	3.81	13.6	6.6	1.25	4.56	4.09	4.32	6.18	1.64	2.85
BBB Index	4.66	96.8	4.47	17.5	7.5	1.33	4.95	3.68	3.61	7.09	2.24	3.40
5-Year Index	4.75	106.9	2.87	5.0	3.6	-0.01	1.31	4.50	4.50	4.43	1.14	1.89
10-Year Index	4.61	106.8	3.22	9.9	5.8	1.22	4.18	5.37	5.72	5.29	1.36	2.60
22+ Year Index	4.75	97.7	4.48	26.7	10.9	1.83	6.88	2.15	2.46	6.79	0.41	2.59
<b>Bloomberg High Yield Municipal Bond Index</b>	<b>4.78</b>	<b>65.5</b>	<b>5.63</b>	<b>19.5</b>	<b>7.5</b>	<b>1.00</b>	<b>4.22</b>	<b>2.31</b>	<b>2.77</b>	<b>7.87</b>	<b>3.02</b>	<b>4.39</b>
Hospital	5.41	69.3	5.97	21.0	6.7	1.35	4.60	3.85	4.94	8.33	3.06	3.67
IDR/PCR	4.61	39.2	6.32	18.5	8.3	-0.36	1.98	-0.93	-0.86	6.14	2.05	4.40
Tobacco	2.49	18.5	6.65	26.6	13.8	0.14	1.96	-3.84	-4.00	5.56	0.41	5.21
Puerto Rico	3.57	54.9	4.77	18.1	7.7	1.49	5.57	2.30	2.19	9.25	3.47	5.93

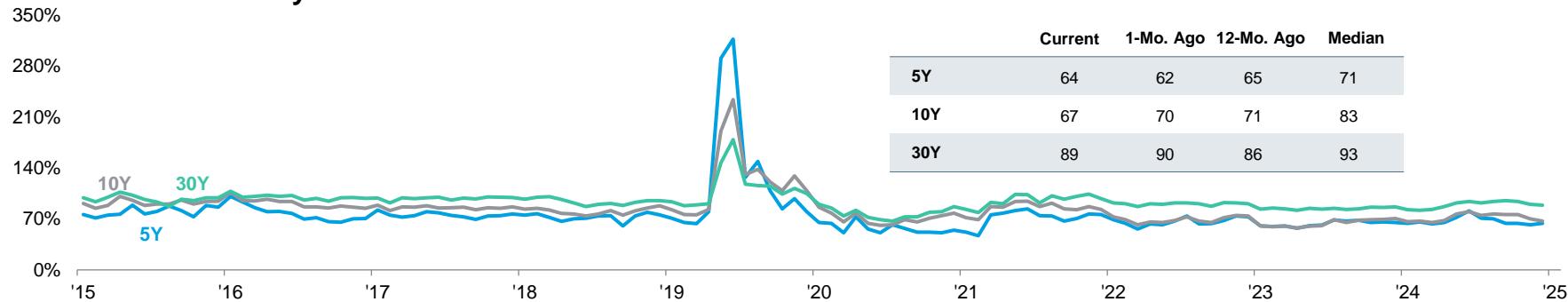
**Past performance is no guarantee of future results.**

It is not possible to invest directly in an index. Source: Bloomberg, Morningstar as of 10/31/25. Coupon and Yield To Worst figures are based on average market prices while Price is based on an average of par value. Data provided is for informational use only. See end of report for important additional information.

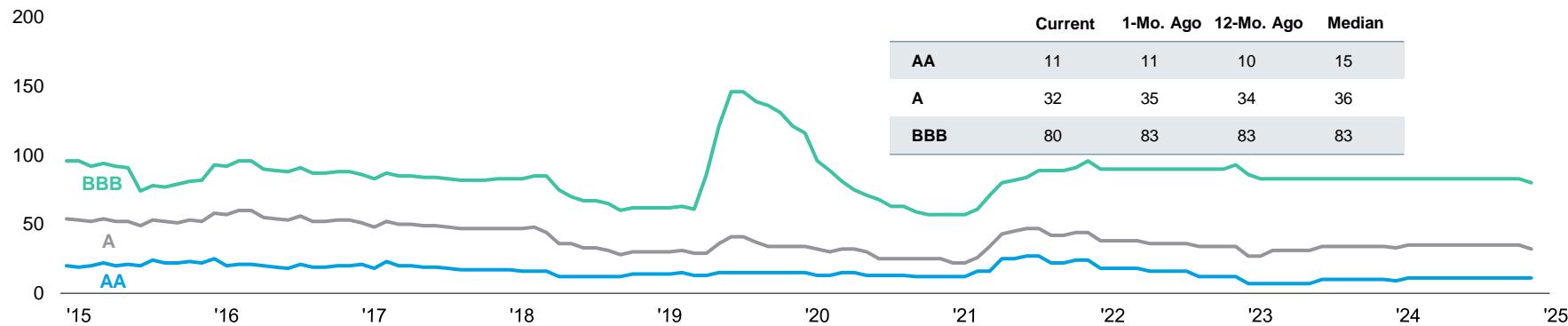
## BONDS

## Municipal Bond Market Update

## AAA Muni-to-Treasury Yield Ratios



## Credit Quality Spreads vs. AAA (bps)



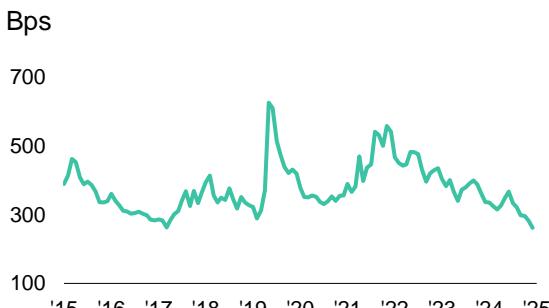
**Past performance is no guarantee of future results.**

It is not possible to invest directly in an index. Source: Bloomberg as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. All spreads are in basis points and measure option-adjusted yield spread relative to comparable maturity U.S. Treasuries.

## BONDS

## Emerging Markets Bond Market Update

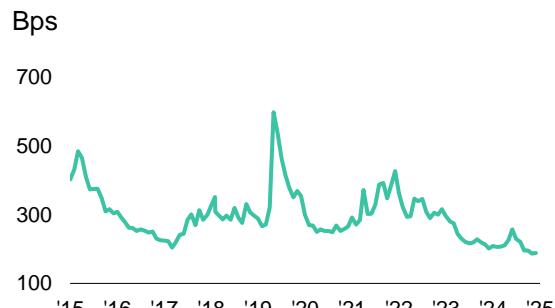
## Sovereign EMD Spreads (USD)



Avg. Spread (bps)

Current	262
1-Mo. Ago	283
12-Mo. Ago	337
Median	361

## Corporate EMD Spreads (USD)



Avg. Spread (bps)

Current	189
1-Mo. Ago	187
12-Mo. Ago	202
Median	288

## Averages

	Coupon (%)	Price (\$)	Yield (%)	Duration	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y	10Y
JPMorgan Emerging Markets Bond Index (EMBI) Global Diversified	5.58	92.6	6.82	6.7	2.13	5.64	13.02	12.76	13.02	2.71	4.13
JPMorgan Corporate Emerging Markets Bond Index (CEMBI) Broad Diversified	5.51	98.0	5.88	4.5	0.56	2.83	7.95	8.01	10.66	3.17	4.51
JPMorgan Government Bond Index-Emerging Markets (GBI-EM) Global Diversified	5.68	-	5.91	5.3	0.46	4.06	15.94	13.06	11.75	2.33	3.13

## Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: J.P. Morgan, Morningstar as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. All spreads are in basis points and measure option-adjusted yield spread relative to comparable maturity U.S. Treasuries.

## BONDS

## Asset Class Return Analysis (%)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	YTD 2025
Higher	Municipal 3.30	High Yield 17.49	EMD (Local Currency) 15.21	Municipal 1.28	Investment Grade 14.54	Global Agg Ex-U.S. 10.11	High Yield 5.36	Bank Loan -0.77	High Yield 13.46	Bank Loan 8.95	EMD (Local Currency) 15.94
	MBS 1.51	EMD (Hard Currency) 10.19	Global Agg Ex-U.S. 10.51	MBS 0.99	EMD (Hard Currency) 14.42	Investment Grade 9.89	Bank Loan 5.20	Municipal -8.53	Bank Loan 13.32	High Yield 8.20	EMD (Hard Currency) 13.02
	EMD (Corp. Bonds) 1.30	Bank Loan 10.16	EMD (Hard Currency) 9.32	Treasury 0.86	High Yield 14.41	Treasury 8.00	Municipal 1.52	High Yield -11.22	EMD (Local Currency) 12.70	EMD (Corp. Bonds) 7.63	Global Agg Ex-U.S. 8.30
	EMD (Hard Currency) 1.23	EMD (Local Currency) 9.94	EMD (Corp. Bonds) 7.96	Bank Loan 0.44	EMD (Local Currency) 13.47	EMD (Corp. Bonds) 7.13	EMD (Corp. Bonds) 0.91	EMD (Local Currency) -11.69	EMD (Hard Currency) 11.09	EMD (Hard Currency) 6.54	EMD (Corp. Bonds) 7.95
	Treasury 0.84	EMD (Corp. Bonds) 9.65	High Yield 7.48	EMD (Corp. Bonds) -1.65	EMD (Corp. Bonds) 13.09	High Yield 6.17	Investment Grade -1.04	MBS -11.81	EMD (Corp. Bonds) 9.08	Investment Grade 2.13	MBS 7.68
	Investment Grade -0.68	Investment Grade 6.11	Investment Grade 6.42	Global Agg Ex-U.S. -2.15	Bank Loan 8.64	EMD (Hard Currency) 5.88	MBS -1.04	EMD (Corp. Bonds) -12.26	Investment Grade 8.52	MBS 1.20	Investment Grade 7.29
	Bank Loan -0.69	MBS 1.67	Municipal 5.45	High Yield -2.26	Municipal 7.54	Municipal 5.21	EMD (Hard Currency) -1.51	Treasury -12.46	Municipal 6.40	Municipal 1.05	High Yield 7.27
	High Yield -4.64	Global Agg Ex-U.S. 1.49	Bank Loan 4.12	Investment Grade -2.51	Treasury 6.86	MBS 3.87	Treasury -2.32	Investment Grade -15.76	Global Agg Ex-U.S. 5.72	Treasury 0.58	Treasury 6.01
	Global Agg Ex-U.S. -6.02	Treasury 1.04	MBS 2.47	EMD (Hard Currency) -4.61	MBS 6.35	Bank Loan 3.12	Global Agg Ex-U.S. -7.05	EMD (Hard Currency) -16.45	MBS 5.05	EMD (Local Currency) -2.38	Bank Loan 4.86
	EMD (Local Currency) -14.92	Municipal 0.25	Treasury 2.31	EMD (Local Currency) -6.21	Global Agg Ex-U.S. 5.09	EMD (Local Currency) 2.69	EMD (Local Currency) -8.75	Global Agg Ex-U.S. -18.70	Treasury 4.05	Global Agg Ex-U.S. -4.22	Municipal 3.91

**Past performance is no guarantee of future results.** It is not possible to invest directly in an index. In general, fixed income investments are subject to credit and interest rate risks. High yield investments may have a higher degree of credit and liquidity risk. Foreign securities are subject to currency, political, economic and market risks. Investors should carefully review the risks of each asset class prior to investing. Source: Morningstar as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. Investment Grade represented by Bloomberg U.S. Corporate Index. MBS represented by Bloomberg U.S. Mortgage Backed Securities (MBS) Index. Treasury represented by Bloomberg U.S. Treasury Index. High Yield represented by ICE BofA US High Yield Index. Municipal represented by Bloomberg Municipal Bond Index. Bank Loan represented by Morningstar LSTA U.S. Leveraged Loan Index. Global Agg Ex-U.S. represented by Bloomberg Global Aggregate Ex-USD Index. EMD (Local Currency) represented by J.P. Morgan Government Bond Index-Emerging Markets (GBI-EM) Global Diversified. EMD (Hard Currency) represented by J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified. EMD (Corp. Bonds) represented by J.P. Morgan Corporate Emerging Market Bond Index (CEMBI) Broad Diversified.

## EQUITIES

# Performance: Market Barometer (%)



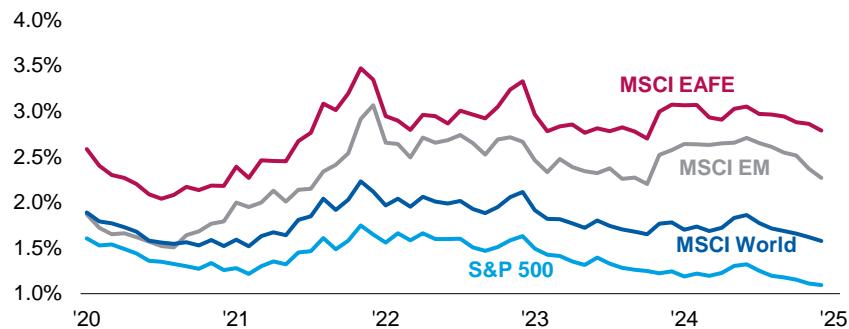
### Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: Morningstar as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. Returns over 1 year are annualized. Large Cap Value represented by Russell 1000 Value Index. Large Cap Core represented by Russell 1000 Index. Large Cap Growth represented by Russell 1000 Growth Index. Mid Cap Value represented by Russell Mid Cap Value Index. Mid Cap Core represented by Russell Mid Cap Index. Mid Cap Growth represented by Russell Mid Cap Growth Index. Small Cap Value represented by Russell 2000 Value Index. Small Cap Core represented by Russell 2000 Index. Small Cap Growth represented by Russell 2000 Growth Index. Global represented by MSCI ACWI Index. US represented by S&P 500 Index. International represented by MSCI EAFE Index. Emerging Markets represented by MSCI Emerging Markets Index.

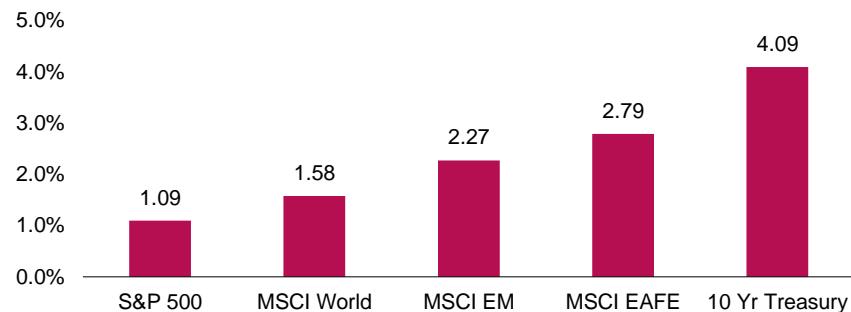
## EQUITIES

# Dividend Yields and Volatility Analysis

### Historical Yields



### Current Yields



### Correlation of S&P 500 Stocks



### CBOE Market Volatility Index (VIX)



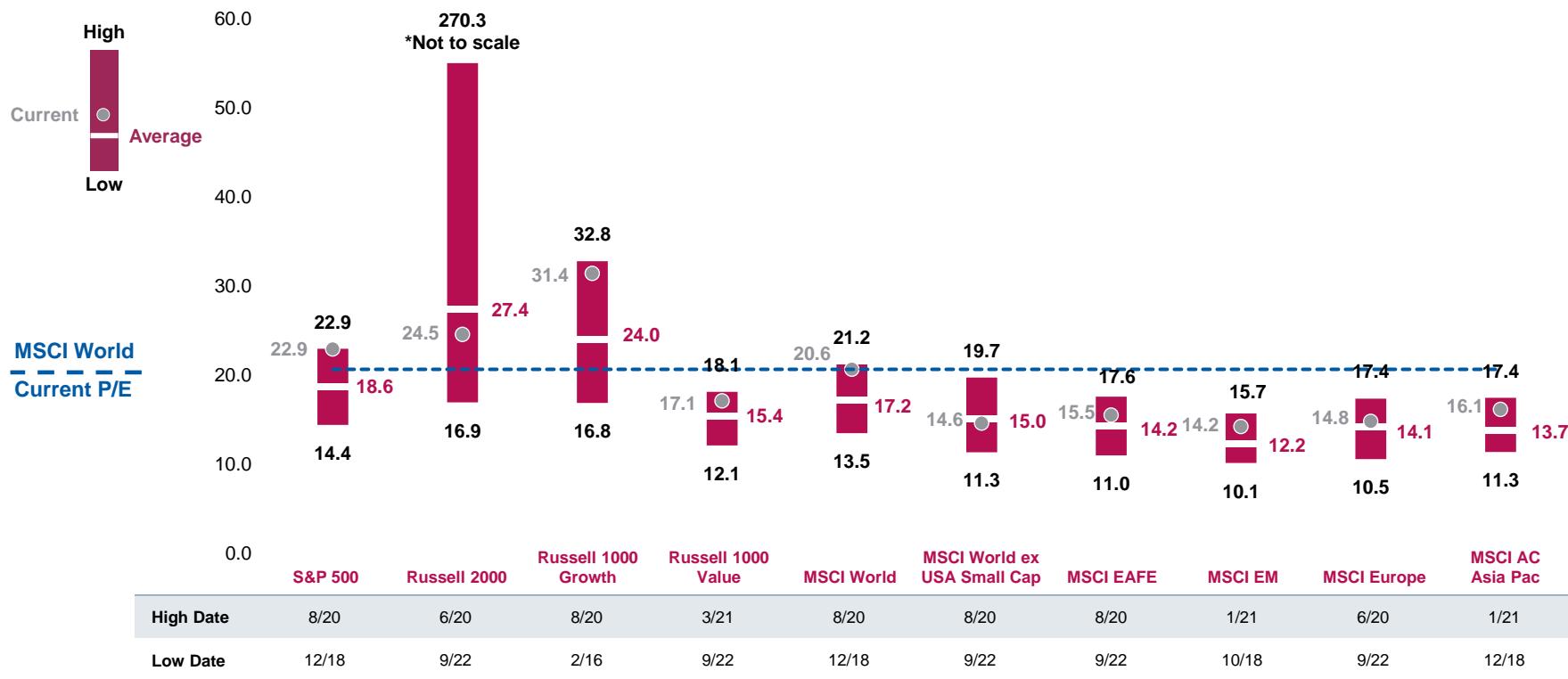
**Past performance is no guarantee of future results.**

It is not possible to invest directly in an index. Source: FactSet and Ned Davis Research as of 10/31/25. Correlation of S&P 500 Stocks is measured by the median 63-day rolling correlation of one day returns data provided is for informational use only. See end of report for important additional information.

## EQUITIES

## Valuation Analysis

## Regions/Styles: Current NTM P/E vs. 10-Year High, Low, Average

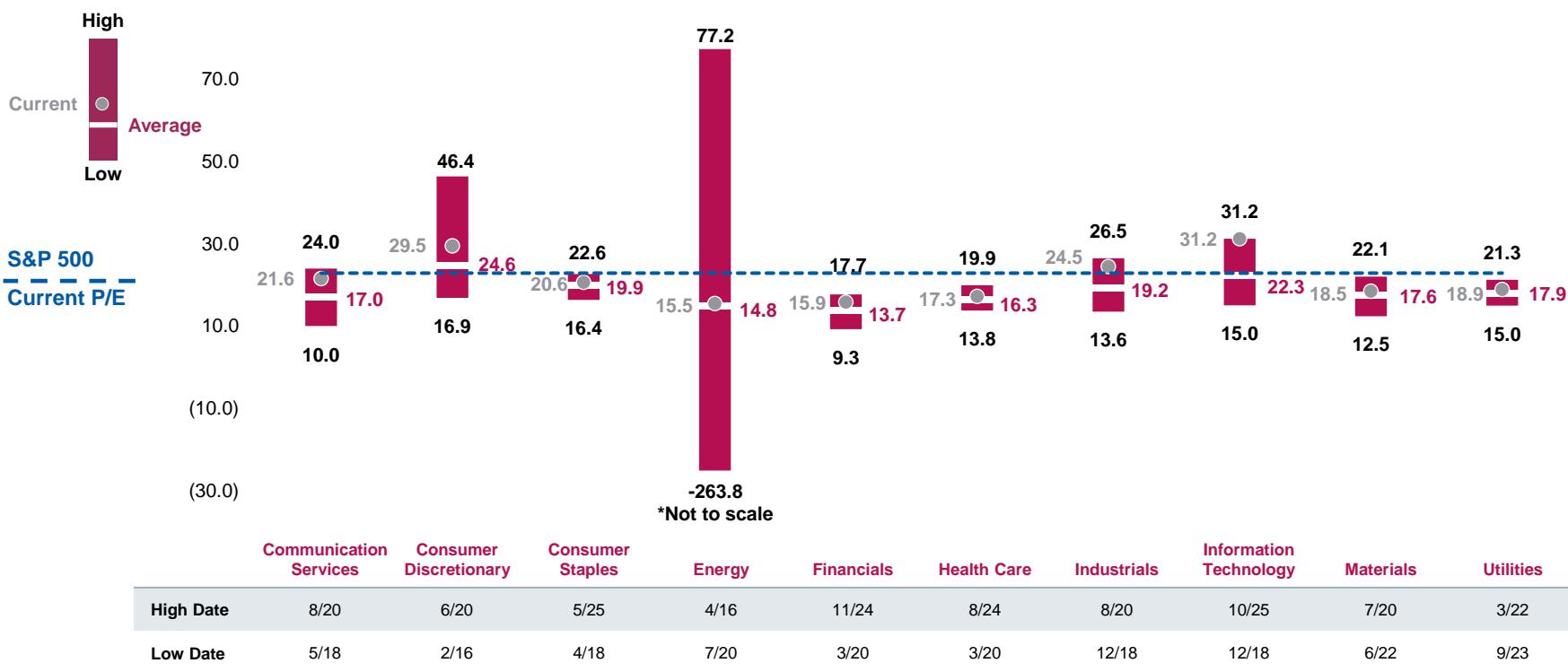


Source: FactSet as of 10/31/25. NTM P/E is market price per share divided by expected earnings per share over the next twelve months. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

## EQUITIES

## Valuation Analysis

## S&amp;P 500 Sectors: Current NTM P/E vs. 10-Year High, Low, Average



Source: FactSet as of 10/31/25. NTM P/E is market price per share divided by expected earnings per share over the next twelve months. The Real Estate sector is excluded from this 10-year chart since the sector was created on August 31, 2016. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

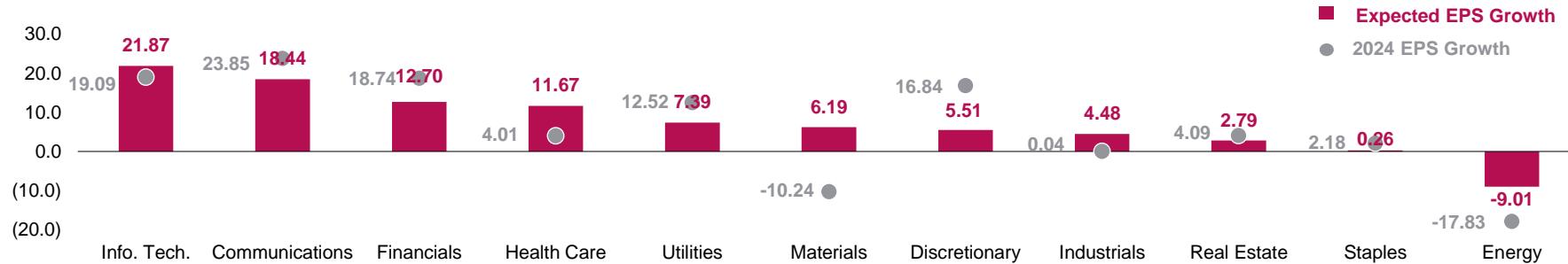
## EQUITIES

# Corporate Earnings Growth

## Regions/Styles



## S&P 500 Sectors

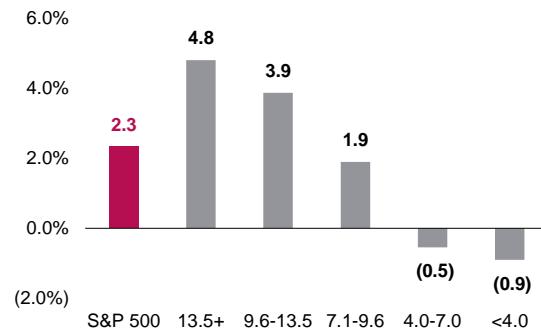


Source: FactSet as of 10/31/25. Expected EPS Growth is defined as the expected % change in the EPS growth from the beginning of the current calendar year through the end of the calendar year. 2024 EPS Growth is defined as the % change in EPS from the beginning of the year through the end of the year. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

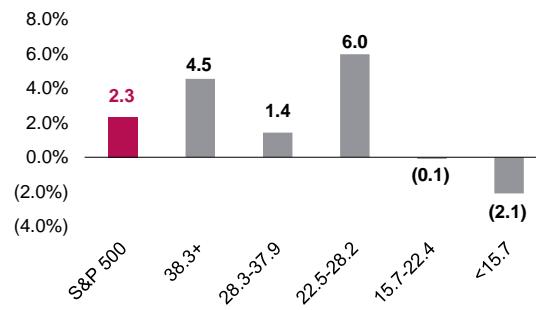
## EQUITIES

# S&P 500 Index: 1-Month Return Analysis

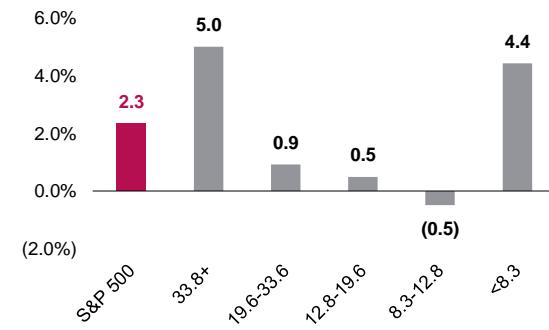
### 3-5 Year Earnings Growth



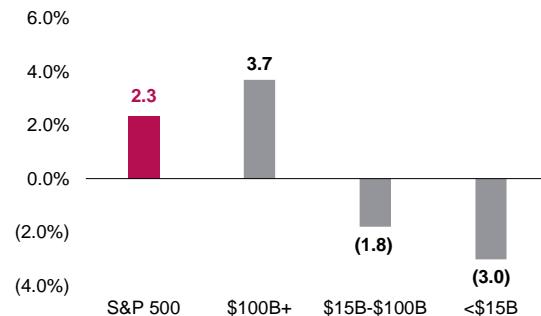
### Trailing 12 Month P/E



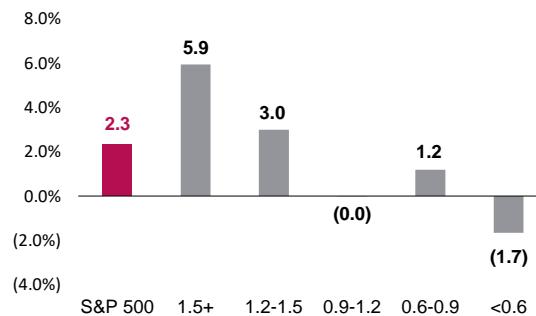
### Return On Equity



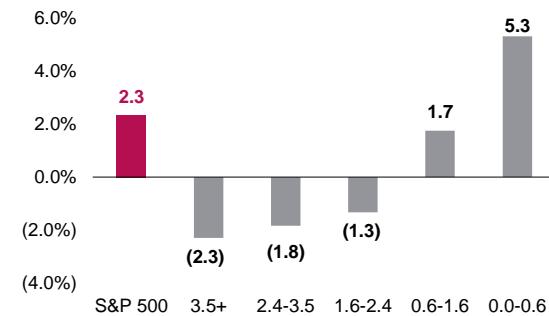
### Market Cap



### Beta



### Dividend Yield



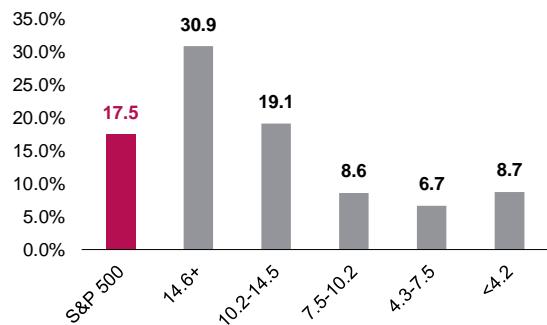
Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: FactSet as of 10/31/25. Data provided is for informational use only. See end of report for important additional information.

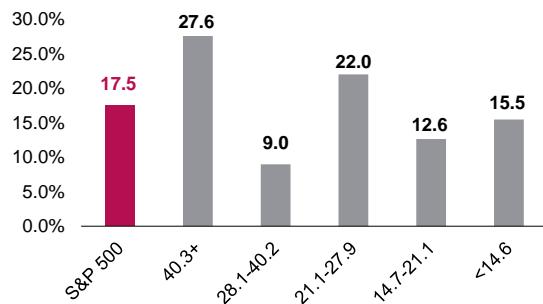
## EQUITIES

# S&P 500 Index: YTD Analysis

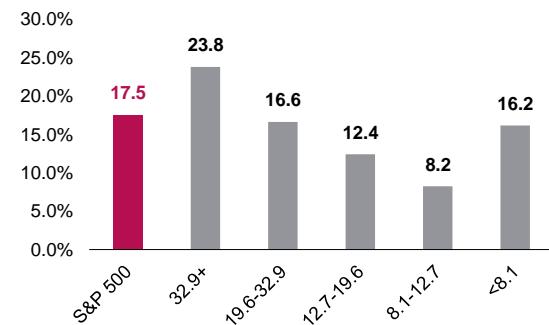
### 3-5 Year Earnings Growth



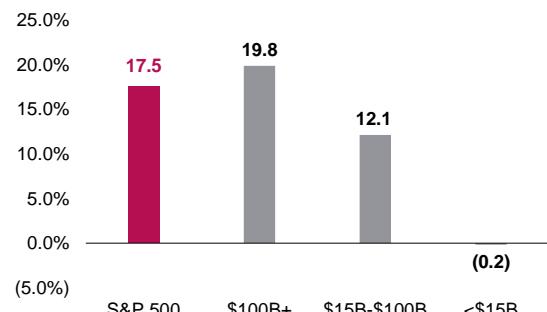
### Trailing 12 Month P/E



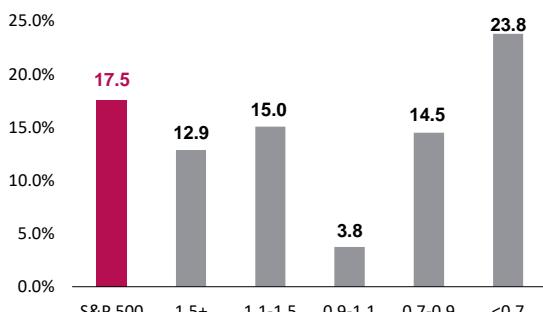
### Return On Equity



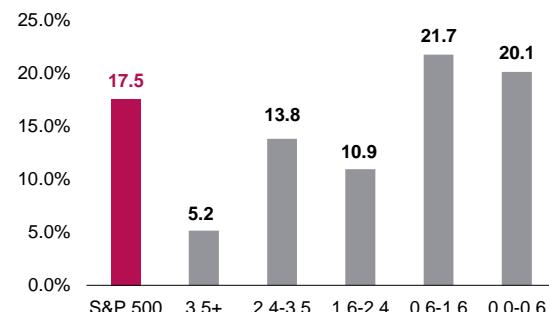
### Market Cap



### Beta



### Dividend Yield



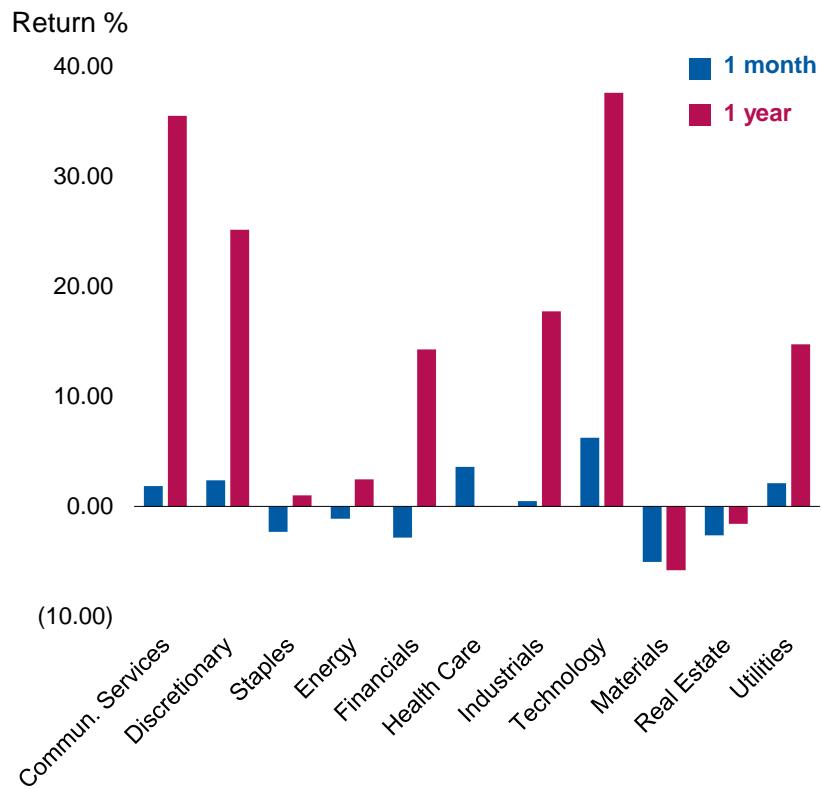
**Past performance is no guarantee of future results.**

It is not possible to invest directly in an index. Source: FactSet as of 10/31/25. Data provided is for informational use only. See end of report for important additional information.

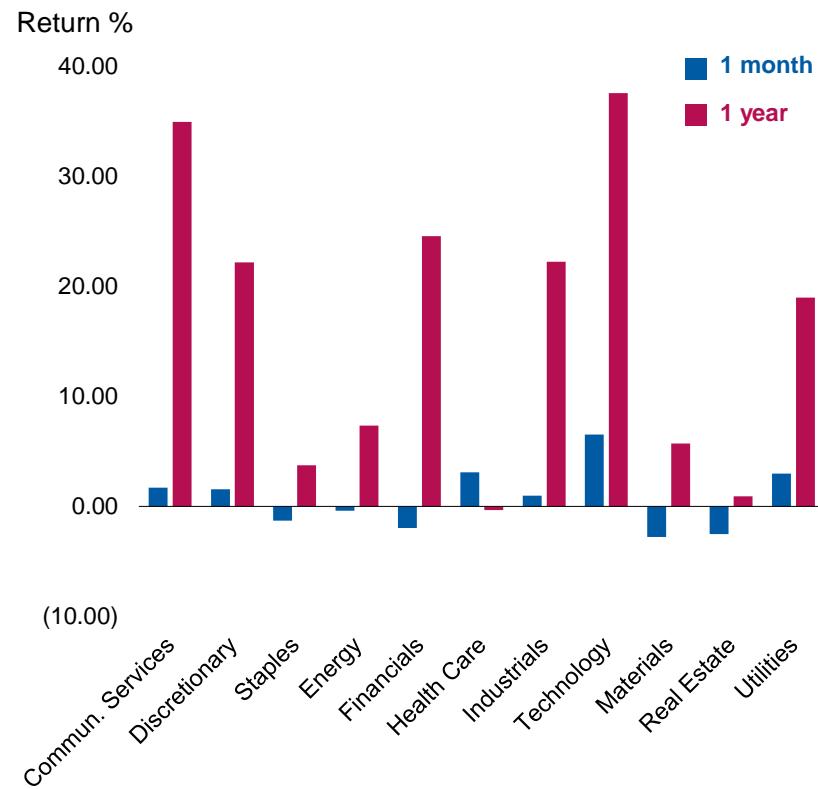
## EQUITIES

# Index Sectors: Return Analysis

### S&P 500



### MSCI World



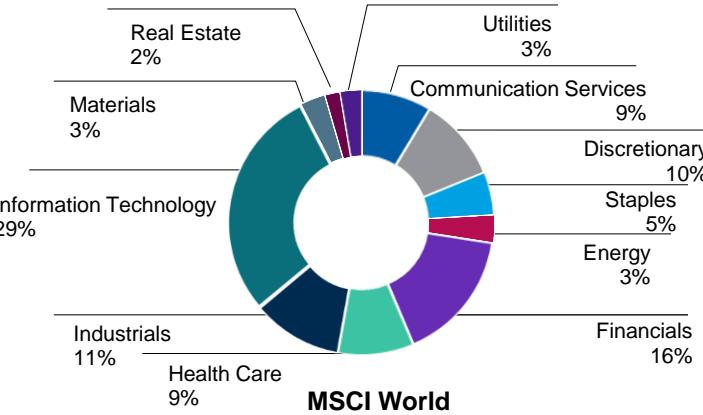
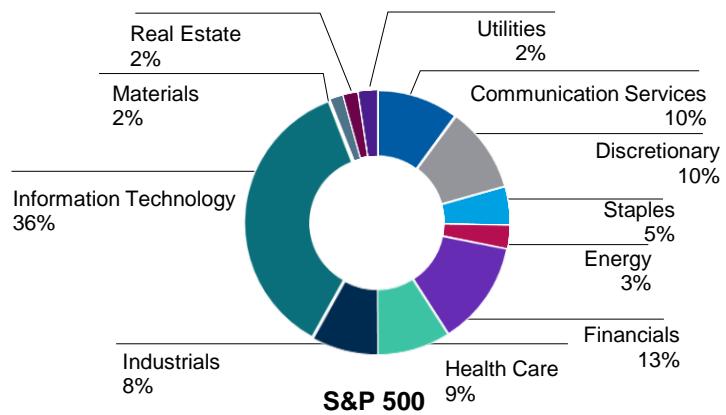
**Past performance is no guarantee of future results.**

It is not possible to invest directly in an index. Source: Morningstar as of 10/31/25. Data provided is for informational use only. See end of report for important additional information.

## EQUITIES

# Current Characteristics and Sector Weights

	S&P 500	R2000	R1000G	R1000V	MSCI World	MSCI World ex USA Small Cap	MSCI EAFE	MSCI EM	MSCI Europe	MSCI Asia Pac
<b>Number of Holdings</b>	503	1958	391	870	1321	2192	693	1190	402	1234
<b>Maximum Market Cap</b>	\$4,920.51B	\$32.46B	\$4,920.51B	\$3,159.76B	\$4,950.52B	\$12.21B	\$426.96B	\$1,207.73B	\$426.96B	\$1,207.73B
<b>Minimum Market Cap</b>	\$6.83B	\$0.02B	\$1.05B	\$1.05B	\$1.73B	\$0.14B	\$2.61B	\$0.18B	\$2.87B	\$0.18B
<b>Dividend Yield</b>	1.09	1.20	0.46	1.83	1.58	2.74	2.79	2.27	2.99	2.11
<b>NTM PE</b>	22.89	24.54	31.38	17.09	20.63	14.59	15.48	14.20	14.79	16.13
<b>Price to Book</b>	5.51	2.18	15.81	2.94	3.94	1.53	2.18	2.27	2.36	2.12
<b>Price to Cash Flow</b>	19.72	16.18	32.16	13.16	16.11	8.93	10.08	9.63	9.42	11.31
<b>Price to Sales</b>	3.45	1.35	6.64	2.03	2.65	0.98	1.56	1.78	1.54	1.72
<b>Est 3-5 Yr EPS Growth</b>	11.43	10.52	13.01	9.82	10.61	8.84	7.95	13.48	8.87	10.33
<b>5Yr. Div Growth Rate</b>	6.29	8.90	4.53	6.42	6.59	8.16	6.76	2.13	8.15	2.63



Source: FactSet as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

**EQUITIES**

# Asset Class Return Analysis (%)

	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y	10Y	2024	2023	2022	2021	2020
U.S. Equities	S&P 500	2.34	8.23	17.52	21.45	22.68	17.64	14.64	25.02	26.29	-18.11	28.71
	Russell 1000 Defensive	0.43	5.60	10.15	12.44	17.16	13.28	12.54	18.55	20.23	-16.43	26.93
	Russell 1000 Dynamic	3.76	10.09	23.87	29.85	27.54	20.58	16.01	30.63	33.34	-21.94	25.57
	Russell 2500	0.67	7.65	10.21	11.94	12.42	11.84	9.99	12.00	17.42	-18.37	18.18
	Russell 1000 Growth	3.63	10.36	21.50	30.52	30.69	19.24	18.28	33.36	42.68	-29.14	27.60
	Russell 1000 Value	0.44	5.19	12.15	11.15	13.39	14.28	9.97	14.37	11.46	-7.54	25.16
	Russell Mid Cap	-0.83	2.55	9.51	10.79	14.09	12.33	10.63	15.34	17.23	-17.32	22.58
	Russell 2000	1.81	12.48	12.39	14.41	11.94	11.50	9.36	11.54	16.93	-20.44	14.82
	CBOE S&P 500 BuyWrite BXM	2.57	5.43	4.86	11.48	12.33	10.91	6.88	20.12	11.82	-11.37	20.47
Global Equities	MSCI World	2.00	8.03	19.78	22.02	21.69	15.58	11.79	18.67	23.79	-18.14	21.82
	MSCI EAFE	1.18	7.51	26.61	23.03	20.06	12.33	7.48	3.82	18.24	-14.45	11.26
	MSCI EM	4.18	13.06	32.86	27.91	21.10	7.46	7.69	7.50	9.83	-20.09	-2.54
	MSCI AC Asia Pac	3.63	11.93	28.22	25.37	21.54	8.29	7.93	9.56	11.45	-17.22	-1.46
	MSCI ACWI	2.24	8.56	21.09	22.64	21.64	14.61	11.31	17.49	22.20	-18.36	18.54
	MSCI Europe	0.74	6.27	28.44	23.19	20.41	13.66	7.47	1.79	19.89	-15.06	16.30
	MSCI World Small Cap	0.17	7.42	16.78	16.91	14.44	11.24	8.98	8.15	15.76	-18.76	15.75
	MSCI World Ex USA Small Cap	-0.67	6.56	28.67	25.75	17.98	9.81	7.60	2.76	12.62	-20.59	11.14
	FTSE 100	1.59	6.53	28.58	26.86	20.43	16.30	6.66	7.73	14.38	-7.01	17.36
	FTSE All Small	-0.16	3.00	17.85	15.69	17.25	11.89	6.55	8.62	12.57	-23.06	22.15
	STOXX Europe 600	0.75	5.99	28.67	23.53	20.60	13.44	7.53	1.97	19.87	-16.14	16.09
	Nikkei 225 Average	11.83	25.39	35.97	34.67	24.30	10.83	9.66	8.45	22.05	-19.49	-4.69
Sectors	S&P 500 Comm. Services	1.86	11.41	26.82	35.44	39.74	17.99	13.54	40.23	55.80	-39.89	21.57
	S&P 500 Cons Disc	2.37	9.26	7.80	25.10	21.43	11.74	13.03	30.14	42.41	-37.03	24.43
	S&P 500 Cons Staples	-2.32	-2.31	1.49	1.01	6.60	8.62	8.09	14.87	0.52	-0.62	18.63
	S&P 500 Energy	-1.13	2.03	5.83	2.44	2.76	30.48	6.89	5.72	-1.33	65.72	54.64
	S&P 500 Financials	-2.84	0.34	9.55	14.25	17.62	19.21	12.60	30.56	12.15	-10.53	35.04
	S&P 500 Health Care	3.58	11.10	6.29	-0.03	4.59	9.07	9.23	2.58	2.06	-1.95	26.13
	S&P 500 Industrials	0.47	2.44	18.94	17.71	19.99	17.27	12.85	17.47	18.13	-5.48	21.12
	S&P 500 Info Tech	6.23	14.32	29.93	37.55	39.62	26.10	24.70	36.61	57.84	-28.19	34.53
	S&P 500 Materials	-5.04	-1.66	3.80	-5.81	7.22	8.51	8.86	-0.04	12.55	-12.27	27.28
	S&P 500 Real Estate	-2.63	-0.02	3.40	-1.58	7.54	7.46	6.61	5.23	12.36	-26.13	46.19
	S&P 500 Utilities	2.10	4.66	20.17	14.72	13.63	10.81	10.99	23.43	-7.08	1.57	17.67

**Past performance is no guarantee of future results.** It is not possible to invest directly in an index. Source: Morningstar as of 10/31/25. Data provided is for informational use only. Results in US Dollar. See end of report for additional information.

## EQUITIES

## Asset Class Return Analysis (%)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	YTD 2025
Higher	Growth 5.67	Small-Cap 21.31	Emerging Markets 37.28	Growth -1.51	Growth 36.39	Growth 38.49	S&P 500 28.71	Value -7.54	Growth 42.68	Growth 33.36	Emerging Markets 32.86
	International Small-Cap 5.46	Value 17.34	International Small-Cap 31.04	S&P 500 -4.38	S&P 500 31.49	Small-Cap 19.96	Growth 27.60	International -14.45	S&P 500 26.29	S&P 500 25.02	International Small-Cap 28.67
	S&P 500 1.38	Mid-Cap 13.80	Growth 30.21	Value -8.27	Mid-Cap 30.54	S&P 500 18.40	Value 25.16	Mid-Cap -17.32	Global 22.20	Global 17.49	International 26.61
	International -0.81	S&P 500 11.96	International 25.03	Mid-Cap -9.06	Global 26.60	Emerging Markets 18.31	Mid-Cap 22.58	S&P 500 -18.11	International 18.24	Mid-Cap 15.34	Growth 21.50
	Global -2.36	Emerging Markets 11.19	Global 23.97	Global -9.42	Value 26.54	Mid-Cap 17.10	Global 18.54	Global -18.36	Mid-Cap 17.23	Value 14.37	Global 21.09
	Mid-Cap -2.44	Global 7.86	S&P 500 21.83	Small-Cap -11.01	Small-Cap 25.52	Global 16.25	Small-Cap 14.82	Emerging Markets -20.09	Small-Cap 16.93	Small-Cap 11.54	S&P 500 17.52
	Value -3.83	Growth 7.08	Mid-Cap 18.52	International -13.79	International Small-Cap 25.41	International Small-Cap 12.78	International 11.26	Small-Cap -20.44	International Small-Cap 12.62	Emerging Markets 7.50	Small-Cap 12.39
	Small-Cap -4.41	International Small-Cap 4.32	Small-Cap 14.65	Emerging Markets -14.58	International 22.01	International 7.82	International Small-Cap 11.14	International Small-Cap -20.59	Value 11.46	International 3.82	Value 12.15
	Emerging Markets -14.92	International 1.00	Value 13.66	International Small-Cap -18.07	Emerging Markets 18.42	Value 2.80	Emerging Markets -2.54	Growth -29.14	Emerging Markets 9.83	International Small-Cap 2.76	Mid-Cap 9.51

## Past performance is no guarantee of future results.

It is not possible to invest directly in an index. In general, Foreign securities are subject to currency, political, economic and market risks. The risks of investing in emerging market countries are greater than investments in foreign developed countries. Investors should carefully review the risks of each asset class prior to investing. Source: Morningstar as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. Small-Cap represented by Russell 2000 Index. Emerging Markets represented by MSCI Emerging Markets Index. Value represented by Russell 1000 Value Index. Mid-Cap represented by Russell Midcap Index. Global represented by MSCI ACWI Index. Growth represented by Russell 1000 Growth Index. International represented by MSCI EAFE Index. International Small-Cap represented by MSCI World Ex USA Small Cap Index.

## ALTERNATIVES

## Developed Market Currency Performance and Yields

Currency	Spot Returns vs. USD (%)					Spot Returns vs. EUR (%)					Local Interest Rates (%)	
	1-Mo.	YTD	1Y	3Y	5Y	1-Mo.	YTD	1Y	3Y	5Y	1Y	
U.S. Dollar (USD)	-	-	-	-	-	1.80	-10.28	-5.94	-5.04	0.18	3.68	
Euro (EUR) *	-1.77	11.46	6.31	5.31	-0.18	-	-	-	-	-	1.89	
British Pound (GBP)	-2.41	4.91	2.19	4.50	0.32	-0.65	-5.88	-3.88	-0.77	0.50	3.70	
Japanese Yen (JPY)	-4.13	2.02	-1.12	-1.19	-7.46	-2.41	-8.48	-7.00	-6.17	-7.29	0.92	
Australian Dollar (AUD)	-1.22	5.73	-0.05	0.79	-1.39	0.56	-5.14	-5.99	-4.29	-1.21	3.59	
Canadian Dollar (CAD)	-0.70	2.64	-0.51	-0.89	-0.99	1.09	-7.91	-6.42	-5.89	-0.81	2.29	
New Zealand Dollar (NZD)	-1.38	2.21	-3.78	-0.48	-2.83	0.40	-8.30	-9.50	-5.49	-2.65	3.40	
Norwegian Krone (NOK)	-1.38	12.26	9.03	0.91	-1.13	0.40	0.72	2.55	-4.17	-0.95	3.88	
Swedish Krona (SEK)	-0.92	16.40	12.72	5.20	-1.28	0.86	4.43	6.03	-0.11	-1.10	1.76	
Danish Krone (DKK)	-1.80	11.32	6.19	5.20	-0.24	-0.04	-0.13	-0.12	-0.10	-0.06	1.63	
Swiss Franc (CHF)	-0.88	12.89	7.72	7.63	2.69	0.90	1.28	1.32	2.20	2.88	-0.28	

## U.S. Dollar Index



**Past performance is no guarantee of future results.**

It is not possible to invest directly in an index. \*German Rate. Source: Factset, Bloomberg as of 10/31/25. Dollar is represented by the US Trade Weighted Dollar Index (DXY). Data provided is for informational use only. See end of report for important additional information.

## ALTERNATIVES

## Emerging Market Currency Performance and Yields

Currency	Spot Returns vs. USD (%)					Spot Returns vs. EUR (%)					Local Interest Rates (%)	
	1-Mo.	YTD	1Y	3Y	5Y	1-Mo.	YTD	1Y	3Y	5Y	1Y	
<b>Asia, excluding Japan</b>												
Chinese Renminbi (CNY)	0.07	2.61	0.03	0.86	-1.19	1.87	-7.94	-5.91	-4.22	-1.01	1.39	
Malaysian Ringgit (MYR)	0.49	6.77	4.56	4.13	-0.16	2.30	-4.21	-1.65	-1.12	0.03	2.83	
Indian Rupee (INR)	0.02	-3.56	-5.28	-2.30	-3.55	1.82	-13.48	-10.90	-7.23	-3.37	5.63	
Indonesian Rupiah (IDR)	0.21	-3.22	-5.62	-2.11	-2.54	2.02	-13.17	-11.23	-7.05	-2.36	4.59	
Philippine Peso (PHP)	-1.10	-1.71	-1.26	-0.51	-3.83	0.68	-11.82	-7.12	-5.53	-3.66	4.02	
Singapore Dollar (SGD)	-0.94	4.82	1.65	2.83	0.97	0.84	-5.96	-4.39	-2.35	1.15	1.22	
South Korean Won (KRW)	-1.52	3.33	-3.14	-0.01	-4.45	0.25	-7.30	-8.89	-5.05	-4.27	2.43	
Taiwanese Dollar (TWD)	-0.86	6.65	4.23	1.58	-1.43	0.93	-4.32	-1.96	-3.54	-1.25	1.13	
Thai Baht (THB)	0.22	5.44	4.36	5.58	-0.73	2.02	-5.40	-1.84	0.26	-0.55	1.31	
<b>Latin America</b>												
Brazilian Real (BRL)	-1.11	14.72	7.49	-0.86	1.38	0.68	2.92	1.11	-5.86	1.56	14.13	
Chilean Peso (CLP)	2.06	5.56	2.04	0.06	-3.86	3.90	-5.30	-4.02	-4.98	-3.68	4.68	
Colombian Peso (COP)	1.44	14.12	14.31	8.15	-0.03	3.26	2.38	7.52	2.70	0.15	9.23	
Mexican Peso (MXN)	-1.18	12.08	8.00	2.28	2.78	0.60	0.55	1.59	-2.88	2.97	7.39	
Peruvian New Sol (PEN)	2.79	11.43	11.64	5.74	1.40	4.64	-0.03	5.01	0.41	1.59	4.01	

**Past performance is no guarantee of future results.**

It is not possible to invest directly in an index. Source: Factset, Bloomberg as of 10/31/25. Data provided is for informational use only. See end of report for important additional information.

## ALTERNATIVES

## Emerging Market Currency Performance and Yields

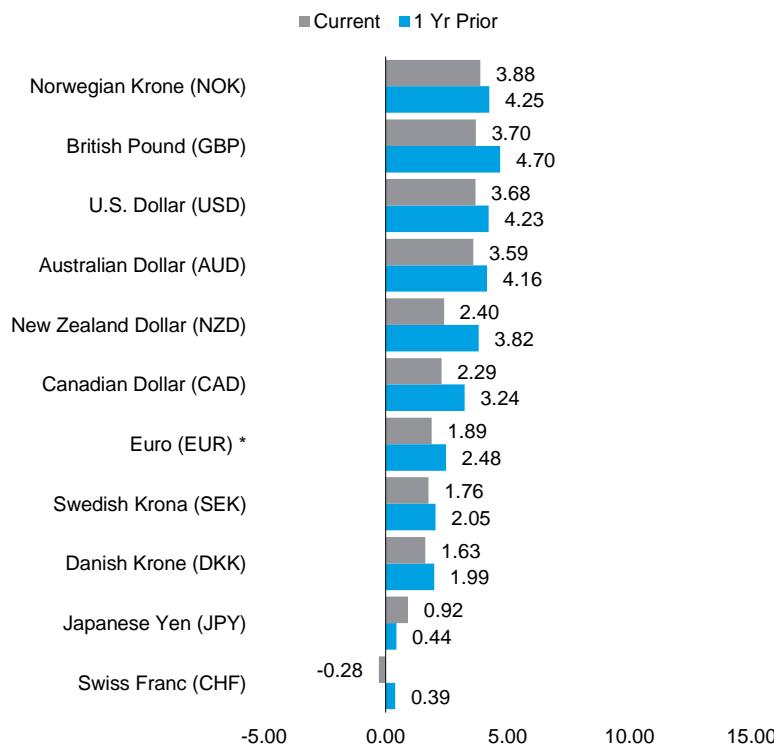
Currency	Spot Returns vs. USD (%)					Spot Returns vs. EUR (%)					Local Interest Rates (%)	
	1-Mo.	YTD	1Y	3Y	5Y	1-Mo.	YTD	1Y	3Y	5Y	1Y	
<b>Europe</b>												
Czech Koruna (CZK)	-1.81	15.30	10.57	5.51	2.12	-0.04	3.44	4.00	0.20	2.31	2.82	
Hungarian Forint (HUF)	-1.33	18.23	11.93	7.28	-1.28	0.44	6.07	5.28	1.88	-1.10	6.08	
Polish Zloty (PLN)	-1.68	11.94	8.62	8.94	1.44	0.09	0.43	2.17	3.45	1.63	3.43	
Romanian Leu (RON)	-1.86	9.05	3.99	4.08	-1.07	-0.09	-2.17	-2.19	-1.16	-0.89	6.35	
Russian Ruble (RUB)	2.10	35.83	20.36	-8.60	-0.33	3.94	21.86	13.21	-13.20	-0.14	--	
Turkish New Lira (TRY)	-1.11	-15.90	-18.45	-23.80	-27.57	0.67	-24.55	-23.29	-27.64	-27.43	37.32	
<b>Middle East and Africa</b>												
Ghanaian Cedi (GHS)	13.76	34.86	49.08	8.70	-11.77	15.81	20.99	40.23	3.22	-11.61	17.90	
Israeli Shekel (ILS)	1.51	11.97	14.96	2.65	0.92	3.34	0.45	8.13	-2.53	1.11	3.97	
Kenyan Shilling (KES)	0.00	0.15	-0.12	-2.06	-3.37	1.80	-10.15	-6.05	-6.99	-3.19	9.34	
Moroccan Dirham (MAD)	-2.16	8.93	5.82	5.61	-0.15	-0.40	-2.27	-0.47	0.29	0.04	2.19	
Nigerian Naira (NGN)	4.00	8.21	17.75	-32.40	-22.99	5.87	-2.91	10.75	-35.81	-22.85	18.37	
South African Rand (ZAR)	-0.46	8.87	2.00	1.97	-1.28	1.33	-2.33	-4.05	-3.17	-1.10	7.40	
Ugandan Shilling (UGX)	0.14	6.32	5.17	2.97	1.45	1.95	-4.61	-1.07	-2.22	1.64	14.95	
Zambian Kwacha (ZMK)	7.72	25.48	20.27	-10.05	-1.50	9.66	12.57	13.13	-14.58	-1.32	14.50	

Past performance is no guarantee of future results. 10/31/25. Data provided is for informational use only. See end of report for important additional information..

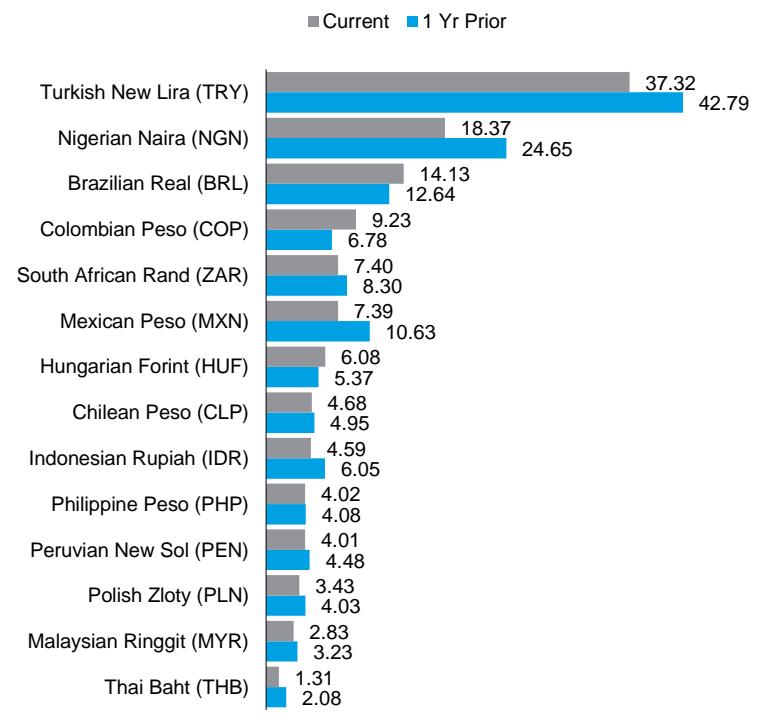
## ALTERNATIVES

## Local Sovereign Currency Yields

## Developed Market Local Interest Rates % (1 Year)



## Emerging Market Local Interest Rates % (1 Year)



**Past performance is no guarantee of future results.**

It is not possible to invest directly in an index. \*German Rate. Source: Bloomberg as 10/31/25. Data provided is for informational use only. See end of report for important additional information.

## ALTERNATIVES

## Commodities Return Analysis (%)

Index	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y
<b>Bloomberg Commodity Index</b>	<b>2.89</b>	<b>7.13</b>	<b>12.54</b>	<b>14.15</b>	<b>3.06</b>	<b>11.86</b>
<b>Bloomberg Sub Agriculture</b>	<b>4.61</b>	<b>5.20</b>	<b>1.61</b>	<b>4.77</b>	<b>-1.86</b>	<b>9.78</b>
Coffee	4.94	36.87	34.66	76.70	44.93	37.05
Corn	4.19	4.36	-9.22	-0.77	-13.28	5.55
Cotton	-0.02	-1.54	-6.91	-10.77	-1.89	3.06
Soybean	9.93	12.09	11.85	13.78	-0.27	9.67
Soybean Oil	-1.15	-10.02	21.24	8.72	-7.49	16.27
Sugar	-12.78	-14.44	-20.53	-32.19	2.69	7.45
Wheat	5.47	-0.91	-10.63	-15.31	-22.31	-9.01
<b>Bloomberg Sub Energy</b>	<b>0.72</b>	<b>-5.03</b>	<b>-3.77</b>	<b>6.22</b>	<b>-12.73</b>	<b>10.20</b>
Brent Crude	-0.97	-6.67	-2.09	1.81	0.69	27.38
Heating Oil	3.63	2.09	18.06	21.90	2.56	36.61
Natural Gas	2.33	-6.25	-14.43	7.31	-46.40	-24.68
Unleaded Gas	0.75	-0.20	2.92	6.30	5.98	32.32
WTI Crude Oil	-1.38	-8.66	-3.70	1.29	0.47	23.71

Index	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y
<b>Bloomberg Sub Industrial Metals</b>	<b>4.78</b>	<b>12.06</b>	<b>13.52</b>	<b>8.78</b>	<b>7.74</b>	<b>8.54</b>
Aluminum	7.90	13.44	15.49	12.69	8.67	8.61
Copper	5.13	16.50	25.15	15.61	16.37	11.85
Nickel	-0.21	1.67	-1.71	-4.29	-11.60	0.10
Zinc	4.38	13.30	5.51	4.02	7.38	6.67
<b>Bloomberg Sub Precious Metals</b>	<b>3.54</b>	<b>22.95</b>	<b>53.11</b>	<b>44.07</b>	<b>34.04</b>	<b>15.26</b>
Gold	3.52	20.57	49.88	43.73	33.53	15.37
Platinum	-1.56	21.21	74.34	57.94	20.91	14.11
Silver	3.60	30.82	63.76	45.10	35.29	14.51
<b>Bloomberg Sub Livestock</b>	<b>-3.79</b>	<b>2.42</b>	<b>19.48</b>	<b>18.40</b>	<b>12.86</b>	<b>11.27</b>
Lean Hogs	-8.09	0.24	2.83	-4.37	0.25	8.30
Live Cattle	-1.85	3.26	29.21	32.63	20.75	13.07

## Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: Morningstar as of 10/31/25. Data provided is for informational use only. See end of report for important additional information. Commodity represented by Bloomberg Commodity Index. Agriculture represented by Bloomberg Agriculture Subindex. Energy represented by Bloomberg Energy Subindex. Grains represented by Bloomberg Grains Subindex. Industrial Metals represented by Bloomberg Industrial Metals Subindex. Livestock represented by Bloomberg Livestock Subindex. Precious Metals represented by Bloomberg Precious Metals Subindex.

## ALTERNATIVES

## Asset Class Return Analysis (%)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	YTD 2025
Higher	Multi-Strategy 3.84	MLP 18.31	Long/Short Equity 13.41	Fixed Income Arbitrage 1.10	Long/Short Equity 12.17	Convertible Arbitrage 10.25	MLP 40.17	MLP 30.92	MLP 26.56	MLP 24.41	Currency 11.25
	Long/Short Equity 3.55	Commodity 11.77	Currency 11.54	Global Macro -0.11	Global Macro 10.38	Long/Short Equity 7.86	Commodity 27.11	Managed Futures 19.12	Long/Short Equity 10.93	Long/Short Equity 14.78	Long/Short Equity 11.05
	Equity Market Neutral 1.69	Convertible Arbitrage 6.60	Equity Market Neutral 8.45	Multi-Strategy -1.05	Managed Futures 9.01	Event Driven 6.95	Event Driven 12.92	Commodity 16.09	Event Driven 9.30	Event Driven 13.03	Equity Market Neutral 10.19
	Convertible Arbitrage 0.81	Multi-Strategy 4.41	Multi-Strategy 6.83	Convertible Arbitrage -2.26	Event Driven 8.22	Global Macro 6.53	Global Macro 9.60	Global Macro 15.89	Currency 8.44	Multi-Strategy 8.66	Commodity 9.38
	Fixed Income Arbitrage 0.59	Fixed Income Arbitrage 4.29	Fixed Income Arbitrage 6.52	Currency -3.33	Convertible Arbitrage 8.15	Multi-Strategy 5.60	Long/Short Equity 8.35	Equity Market Neutral 1.71	Multi-Strategy 8.04	Fixed Income Arbitrage 8.49	Fixed Income Arbitrage 7.98
	Global Macro 0.18	Global Macro 3.58	Event Driven 6.30	Event Driven -3.95	Commodity 7.69	Fixed Income Arbitrage 3.64	Managed Futures 8.19	Multi-Strategy 1.27	Fixed Income Arbitrage 7.71	Equity Market Neutral 8.05	Global Macro 7.69
	Managed Futures -0.93	Currency 3.54	Convertible Arbitrage 5.01	Long/Short Equity -4.62	Multi-Strategy 7.25	Managed Futures 1.86	Multi-Strategy 6.97	Fixed Income Arbitrage -0.97	Equity Market Neutral 6.73	Convertible Arbitrage 7.35	Multi-Strategy 7.02
	Event Driven -6.29	Event Driven 2.68	Managed Futures 3.29	Equity Market Neutral -5.00	MLP 6.56	Currency 1.73	Convertible Arbitrage 6.33	Convertible Arbitrage -3.32	Convertible Arbitrage 4.04	Global Macro 5.52	Event Driven 6.96
	Currency -7.61	Long/Short Equity -3.43	Global Macro 2.14	Managed Futures -6.67	Fixed Income Arbitrage 6.10	Equity Market Neutral 1.69	Equity Market Neutral 6.16	Long/Short Equity -5.77	Managed Futures -2.78	Commodity 5.38	Convertible Arbitrage 6.47
	Commodity -24.66	Equity Market Neutral -4.58	Commodity 1.70	Commodity -11.25	Currency 5.20	Commodity -3.12	Fixed Income Arbitrage 5.22	Event Driven -6.80	Global Macro -5.19	Managed Futures 2.87	MLP 5.75
Lower	MLP -32.59	Managed Futures -6.84	MLP -6.52	MLP -12.42	Equity Market Neutral 1.58	MLP -28.69	Currency -3.09	Currency -7.14	Commodity -7.91	Currency -1.08	Managed Futures -1.16

**Past performance is no guarantee of future results.** It is not possible to invest directly in an index. Source: Morningstar as of 9/30/25. \*Data is on a 1-month lag. Data provided is for informational use only. Alternative investments often are speculative and include a high degree of risk. See end of report for important additional information. Global Macro represented by Credit Suisse Global Macro Index. MLP represented by Alerian MLP Index. Event Driven represented by Credit Suisse Event Driven Index. Multi-Strategy represented by Credit Suisse Multi-Strategy Index. Long/Short Equity represented by Credit Suisse Long/Short Equity Index. Convertible Arbitrage represented by Credit Suisse Convertible Arbitrage Index. Currency represented by J.P. Morgan EML+ Index. Equity Market Neutral represented by Credit Suisse Equity Market Neutral Index. Fixed Income Arbitrage represented by Credit Suisse Fixed Income Arbitrage Index. Managed Futures represented by Credit Suisse Managed Futures Index. Commodity represented by Bloomberg Commodity Index.

## TRANSITION

## Major Asset Classes Correlation Table

	S&P 500	International	Emerging Markets	Small Cap	U.S. Aggregate	Municipal	High Yield	Bank Loan	Commodities
S&P 500	1.00	0.84	0.68	0.86	0.39	0.43	0.79	0.61	0.41
International	0.81	1.00	0.79	0.76	0.45	0.49	0.79	0.60	0.45
Emerging Markets	0.62	0.75	1.00	0.61	0.42	0.47	0.69	0.56	0.47
Small Cap	0.83	0.75	0.57	1.00	0.30	0.35	0.76	0.64	0.38
U.S. Aggregate	0.62	0.69	0.62	0.52	1.00	0.84	0.51	0.15	-0.03
Municipal	0.67	0.69	0.68	0.56	0.89	1.00	0.58	0.29	0.07
High Yield	0.84	0.83	0.62	0.78	0.74	0.73	1.00	0.81	0.49
Bank Loan	0.56	0.56	0.51	0.58	0.33	0.34	0.67	1.00	0.49
Commodities	0.25	0.31	0.32	0.21	0.03	0.02	0.28	0.31	1.00

5 Years ended Oct 31, 2025

10 Years ended Oct 31, 2025

## Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: Morningstar as of 10/31/25. The table above shows the return correlation between various asset classes (represented by market indices as defined in this disclosure) over the past five and ten years. Data provided is for informational use only. See end of report for important additional information. S&P 500 is represented by the S&P 500 Index. International is represented by MSCI EAFE Index. Emerging Markets is represented by MSCI Emerging Markets Index. Small-Cap is represented by Russell 2000 Index. US Aggregate is represented by the Bloomberg Barclays Capital US Aggregate Bond Index. Municipal is represented by Bloomberg Barclays Municipal Bond Index. High Yield is represented by ICE BofA US High Yield Index. Bank Loan is represented by Morningstar LSTA U.S. Leveraged Loan Index. Commodities is represented by Bloomberg Commodity Index.

## TRANSITION

## Fund and ETF Flows by Category

## Top 10 Open-End Mutual Fund Categories by Monthly Flows (\$MM)

	1 Mo.	3 Mo.	12 Mo.
Intermediate Core Bond	8,931	31,883	51,878
Multisector Bond	5,236	15,499	37,194
Global Bond-USD Hedged	3,180	6,959	12,070
Intermediate Core-Plus Bond	2,494	7,351	4,180
High Yield Muni	1,978	1,680	6,187
Ultrashort Bond	1,733	5,664	19,268
Miscellaneous Region	1,540	3,086	9,017
Muni National Interim	1,380	4,426	11,957
Multistrategy	1,244	2,578	5,252
High Yield Bond	1,194	1,678	458

## Bottom 10 Open-End Mutual Fund Categories by Monthly Flows (\$MM)

	1 Mo.	3 Mo.	12 Mo.
Mid-Cap Value	-2,358	-6,669	-21,472
Diversified Emerging Mkts	-2,837	-8,145	-33,918
Mid-Cap Blend	-3,119	-8,233	-21,917
Small Blend	-3,670	-11,434	-23,691
Foreign Large Growth	-3,715	-8,575	-39,621
Moderate Allocation	-3,723	-10,254	-43,586
Mid-Cap Growth	-4,180	-9,942	-36,850
Large Value	-8,427	-24,173	-89,835
Large Growth	-13,136	-40,896	-145,889
Large Blend	-32,848	-78,748	-164,876

## Top 10 Exchange-Traded Fund Categories by Monthly Flows (\$MM)

	1 Mo.	3 Mo.	12 Mo.
Large Blend	30,763	94,245	376,260
Foreign Large Blend	11,989	31,138	92,694
Commodities Focused	9,938	18,393	39,067
Large Value	9,201	18,015	76,463
Large Growth	7,280	21,089	100,169
Technology	5,904	12,396	26,607
Intermediate Core Bond	5,874	16,126	63,199
Digital Assets	5,650	22,246	61,149
Diversified Emerging Mkts	5,179	9,333	24,128
Ultrashort Bond	4,788	22,172	102,059

## Bottom 10 Exchange-Traded Fund Categories by Monthly Flows (\$MM)

	1 Mo.	3 Mo.	12 Mo.
Short Government	-84	857	4,937
Utilities	-164	1,776	4,318
Japan Stock	-264	-1,064	-1,651
Equity Energy	-427	-1,612	-11,795
Miscellaneous Region	-508	-1,485	460
Mid-Cap Value	-514	-1,621	-4,043
Trading--Leveraged Debt	-722	-539	-171
Europe Stock	-771	-1,181	2,772
Foreign Large Growth	-3,190	-2,597	-3,201
Trading--Leveraged Equity	-6,793	-17,098	-11,388

Source: Morningstar as of 9/30/25. Flow data is on a one-month lag. Data provided is for informational use only. See end of report for important additional information.

## TRANSITION

## Major Asset Class Return Analysis (%)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	YTD 2025
Higher	Municipal 3.30	Small-Cap 21.31	Emerging Markets 37.28	Municipal 1.28	S&P 500 31.49	Small-Cap 19.96	S&P 500 28.71	Commodities 16.09	S&P 500 26.29	S&P 500 25.02	Emerging Markets 32.86
	S&P 500 1.38	High Yield 17.49	International 25.03	Bank Loan 0.44	Small-Cap 25.52	S&P 500 18.40	Commodities 27.11	Bank Loan -0.77	International 18.24	Small-Cap 11.54	International 26.61
	US Agg 0.55	S&P 500 11.96	S&P 500 21.83	US Agg 0.01	International 22.01	Emerging Markets 18.31	Small-Cap 14.82	Municipal -8.53	Small-Cap 16.93	Asset Allocation 9.79	S&P 500 17.52
	Bank Loan -0.69	Commodities 11.77	Small-Cap 14.65	High Yield -2.26	Asset Allocation 18.70	Asset Allocation 11.95	Asset Allocation 11.43	High Yield -11.22	Asset Allocation 14.09	Bank Loan 8.95	Asset Allocation 14.33
	International -0.81	Emerging Markets 11.19	Asset Allocation 14.02	S&P 500 -4.38	Emerging Markets 18.42	International 7.82	International 11.26	US Agg -13.01	High Yield 13.46	High Yield 8.20	Commodities 12.54
	Asset Allocation -2.03	Bank Loan 10.16	High Yield 7.48	Asset Allocation -5.40	High Yield 14.41	US Agg 7.51	High Yield 5.36	Asset Allocation -13.04	Bank Loan 13.32	Emerging Markets 7.50	Small-Cap 12.39
	Small-Cap -4.41	Asset Allocation 8.61	Municipal 5.45	Small-Cap -11.01	US Agg 8.72	High Yield 6.17	Bank Loan 5.20	International -14.45	Emerging Markets 9.83	Commodities 5.38	High Yield 7.27
	High Yield -4.64	US Agg 2.65	Bank Loan 4.12	Commodities -11.25	Bank Loan 8.64	Municipal 5.21	Municipal 1.52	S&P 500 -18.11	Municipal 6.40	International 3.82	US Agg 6.80
	Emerging Markets -14.92	International 1.00	US Agg 3.54	International -13.79	Commodities 7.69	Bank Loan 3.12	US Agg -1.54	Emerging Markets -20.09	US Agg 5.53	US Agg 1.25	Bank Loan 4.86
	Commodities -24.66	Municipal 0.25	Commodities 1.70	Emerging Markets -14.57	Municipal 7.54	Commodities -3.12	Emerging Markets -2.54	Small-Cap -20.44	Commodities -7.91	Municipal 1.05	Municipal 3.91

**Past performance is no guarantee of future results.** It is not possible to invest directly in an index. Source: Morningstar as of 10/31/25. Data provided is for informational use only. Investing involves risks including the possible loss of principal. Investors should carefully review the risks of each asset class prior to investing. See end of report for important additional information. S&P 500 represented by the S&P 500 Index. International represented by MSCI EAFE Index. Emerging Markets represented by MSCI Emerging Markets Index. Small-Cap represented by Russell 2000 Index. US Aggregate represented by the Bloomberg Capital US Aggregate Bond Index. Municipal represented by Bloomberg Municipal Bond Index. High Yield represented by ICE BofA US High Yield Index. Bank Loan represented by Morningstar LSTA U.S. Leveraged Loan Index. Commodity represented by Bloomberg Commodity Index. The Asset Allocation portfolio assumes the following weights: 25% in the S&P 500 Index, 15% in the MSCI EAFE Index, 5% in the MSCI Emerging Markets Index, 10% in the Russell 2000 Index, 25% in the Bloomberg Capital US Aggregate Bond Index, 5% in the Bloomberg Municipal Bond Index, 5% in the Bloomberg US Corporate High Yield Index, 5% in the Morningstar LSTA U.S. Leveraged Loan Index, and 5% in the Bloomberg Commodity Index.

## Portfolio Solutions Group

The Portfolio Solutions Group is a comprehensive multi-asset business, with activity across all asset strategies and type, both traditional and alternative, through solutions that span fully liquid (public assets), comprehensive (public and private assets) and fully private portfolios. Offerings are delivered by a managed portfolio or model, in discretionary or advisory format.

The team's expertise lies in partnering with institutional, intermediaries and high net worth investors to understand their unique needs and crafting solutions to help them achieve their overall investment objectives.



**JIM CARON**

*Chief Investment Officer  
Managing Director*



**GREG  
WATERMAN**

*Executive Director*



**EDWARD  
RIGUARDI**

*Executive Director*



**ERIC ZHANG**

*Executive Director*



**SCHUYLER  
HOOPER**

*Executive Director*



**UMAR MALIK**

*Vice President*



**CHRIS CHIA**

*Vice President*



**SACHIN  
RAGHAVAN**

*Associate*



**SILVIA MARE**

*Analyst*

# Asset Allocation Committee

The Asset Allocation Committee is an independent group of senior investment professionals across various disciplines within MSIM and Eaton Vance. The Portfolio Solutions Group presents multi-sector research and investment ideas to the Committee, who is responsible for vetting and challenging these ideas to insure they meet their rigorous standards and can then be included in representative asset allocation recommendations.

<b>MARK BAVOSO</b> <i>Senior Portfolio Manager, Global Multi-Asset Team</i>	<b>VISHAL KHANDUJA, CFA</b> <i>Portfolio Manager Co-Head of the Broad Markets Fixed Income Team</i>
<b>JUSTIN BOURGETTE, CFA</b> <i>Portfolio Manager Head of Investment Strategy for the High Yield Team</i>	<b>KYLE LEE, CFA</b> <i>Portfolio Manager Co-Head of the Emerging Markets Team</i>
<b>CRAIG BRANDON, CFA</b> <i>Portfolio Manager Co-Head of the Municipals Team</i>	<b>SCOTT R. NORBY</b> <i>Private Credit and Equity</i>
<b>JIM CARON</b> <i>Chief Investment Officer, Portfolio Solutions Group</i>	<b>NISHA PATEL, CFA</b> <i>Senior Portfolio Manager Head of Fixed Income SMA Management, Parametric</i>
<b>AARON DUNN, CFA</b> <i>Portfolio Manager Co-Head of the Value Equity Team</i>	<b>CHRISTOPHER REMINGTON</b> <i>Institutional Portfolio Manager Head of Fixed Income Product &amp; Portfolio Strategy</i>
<b>GREG FINCK</b> <i>Portfolio Manager Co-Head of the Mortgage and Securitized Team</i>	<b>ANDREW SLIMMON</b> <i>Senior Portfolio Manager Head of Applied Equity Advisors</i>
<b>BRAD GODFREY, CFA</b> <i>Co-Head of the Emerging Markets Team</i>	<b>ANDREW SZCZUROWSKI, CFA</b> <i>Portfolio Manager Co-Head of the Mortgage and Securitized Team</i>
<b>KATIE HERR</b> <i>Head of Fixed Income Product Strategy</i>	<b>STEVEN TURNER, CFA</b> <i>Head of Investment Selection, Portfolio Solutions Group</i>
<b>LAUREN HOCHFELDER</b> <i>Co-Chief Executive Officer of MSREI Head of MSREI Americas</i>	<b>MARK VAN DER ZWAN, CFA</b> <i>Chief Investment Officer and Head of the AIP Hedge Fund Team</i>
<b>JITANIA KANDHARI</b> <i>Deputy CIO, Solutions &amp; Multi Asset Group; Head of Macro &amp; Thematic Research, Emerging Markets; Portfolio Manager</i>	

# Index Definitions

The **Bloomberg Bitcoin Index** measures a single bitcoin's USD performance, using DAR's vetted price, calculated as a time-weighted average, and is priced in USD.

The **Bloomberg Capital Expenditure Index** measures capital expenditure in the U.S.

**Bloomberg Commodity Index** is a broadly diversified index tracking futures contracts on physical commodities.

The **Bloomberg ECO Labor Market Surprise Index** measures economic data releases on the labor market compared to market expectations.

**Bloomberg Euro-Aggregate Corporates Index** consists of bonds issued in the euro or the legacy currencies of the 16 sovereign countries participating in the European Monetary Union (EMU)

**Bloomberg Global Aggregate Ex-USD Index** is a broad-based measure of global Investment Grade fixed-rate debt investments, excluding USD-denominated debt.

**Bloomberg High Yield Municipal Bond Index** is an unmanaged index of non-Investment Grade Municipal bonds traded in the U.S.

**Bloomberg Magnificent 7 Index** is an equal-dollar weighted equity benchmark consisting of Alphabet, Amazon, Apple, Microsoft, Meta, Nvidia and Tesla.

**Bloomberg Municipal Bond Index** is an unmanaged index of Municipal bonds traded in the U.S.

**Bloomberg Pan-European High Yield Index** covers the universe of fixed-rate, sub-investment-grade debt denominated in euros or other European currencies (except Swiss francs).

**Bloomberg Taxable Municipal Bond Index** is an unmanaged index of Taxable Municipal bonds traded in the U.S.

**Bloomberg U.S. Agency Index** measures agency securities issued by U.S. government agencies, quasi-federal corporations, and corporate or foreign debt guaranteed by the U.S. government.

**Bloomberg U.S. Aggregate Index** is an unmanaged index of domestic investment-grade bonds, including corporate, government and mortgage-backed securities.

**Bloomberg U.S. Asset Backed Securities (ABS) Index** measures ABS with the following collateral type: credit and charge card, auto, and utility loans.

**Bloomberg U.S. CMBS Index** measures the market of conduit and fusion CMBS deals with a minimum current deal size of \$300mn.

**Bloomberg U.S. Corporate Investment Grade Index** is an unmanaged index that measures the performance of investment-grade corporate securities within the Barclays U.S. Aggregate Index.

**Bloomberg U.S. Mortgage-Backed Securities (MBS) Index** measures agency mortgage-backed pass-through securities issued by GNMA,

FNMA, and FHLMC.

**Bloomberg U.S. Treasury Index** measures public debt instruments issued by the U.S. Treasury.

**CBOE Volatility Index (VIX)** tracks the implied volatilities of a wide range of S&P 500 Index options.

**CBOE S&P 500 BuyWrite Index** measures the performance of a hypothetical buy-write strategy on the S&P 500 Index.

**Citigroup Eurozone Economic Surprise Index** represents the sum of the difference between official economic results and forecasts in Europe.

**Citigroup U.S. Economic Surprise Index** represents the sum of the difference between official economic results and forecasts in the U.S.

The **DAX** consists of the 40 major German blue chip companies trading on the Frankfurt Stock Exchange.

**ICE BofA US Inflation-Linked Treasury Index** tracks the performance of USD denominated inflation linked sovereign debt publicly issued by the US government.

**ICE BofA Fixed Rate Preferred Securities Index** is an unmanaged index of fixed-rate, preferred securities issued in the U.S.

**ICE BofA European Union Government Bond Index** tracks the performance of sovereign debt publicly issued by countries that are members of the European Union.

**ICE BofA U.S. High Yield Index** is an unmanaged index of below-investment grade U.S. corporate bonds.

**ICE BofA Developed Markets High Yield Ex-Subordinated Financial Index (Hedged)** is an unmanaged index of global developed market below investment grade corporate bonds, USD hedged.

**FTSE 100 Index** is an unmanaged market-capitalization weighted index representing the performance of the 100 largest UK listed blue chip companies, which pass screening for size and liquidity.

**FTSE All Small Index** consists of all the companies in the FTSE SmallCap and FTSE Fledgling indices.

**FTSE World Government Bond Index (WGBI)** measures the performance of fixed-rate, local currency, investment-grade sovereign bonds.

**J.P. Morgan Corporate Emerging Markets Bond Index (CEMBI) Broad Diversified** is an unmanaged index of USD-denominated emerging market corporate bonds.

**J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified** is an unmanaged index of USD-denominated bonds with maturities of more than one year issued by emerging markets governments.

**J.P. Morgan Government Bond Index-Emerging Markets (GBI-EM) Global Diversified** is an unmanaged index of local-currency bonds with maturities of more than one year issued by emerging market governments.

The **MDAX** lists German companies trading on the Frankfurt Stock Exchange. It includes the 50 Prime Standard shares that rank in size immediately below the companies included in the DAX index.

**Morgan Stanley Capital International (MSCI) Emerging Markets Index** is an unmanaged index of emerging markets common stocks

**MSCI EMU Index (European Economic and Monetary Union)** captures large and mid cap representation across the 10 Developed Markets countries in the EMU. With 229 constituents, the index covers approximately 85% of the free float-adjusted market capitalization of the EMU.

**Morgan Stanley Capital International All Country Asia Pacific Index (MSCI AC Asia Pac)** is an unmanaged total return, capitalization-weighted index that measures the performance of stock markets in 15 Pacific region countries, including Australia, China, Hong Kong, India, Indonesia, Japan, Korea, Malaysia, New Zealand, Pakistan, the Philippines, Singapore, Sri Lanka, Taiwan and Thailand.

**Morgan Stanley Capital International (MSCI) Japan Index** is an unmanaged index designed to measure the performance of the large and mid cap segments of the Japan market.

**Morgan Stanley Capital International (MSCI) World Index** is an unmanaged index of equity securities in the developed markets.

**Morgan Stanley Capital International (MSCI) World ex USA Small Cap Index** is an unmanaged index of small-cap equity securities in the developed markets, excluding the United States.

**Morgan Stanley Capital International All Country World (MSCI AC World) Index** is an unmanaged free float-adjusted market-capitalization-weighted index designed to measure the equity market performance of developed and emerging markets.

**Morgan Stanley Capital International Europe (MSCI Europe) Index** is an unmanaged free float-adjusted market-capitalization-weighted index designed to measure the equity market performance of the developed markets in Europe.

**Morgan Stanley Capital International Europe, Australasia, Far East (MSCI EAFE) Index** is an unmanaged index of equities in the developed markets, excluding the U.S. and Canada.

**MSCI USA Index** is designed to measure the performance of the large and mid cap segments of the US market. With 625 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in the US.

**MSCI China** captures large and mid-cap representation across China A-shares, B-shares, H-shares, Red-chips and P-chips. It reflects the Mainland China and Hong Kong opportunity set from an international investor's perspective.

The **MSCI India Index** is designed to measure the performance of the large and mid cap segments of the Indian market.

## ADDITIONAL INFORMATION

## Index Definitions, Terms and About Risk

The **MSCI World Index** is a free float adjusted market capitalization weighted index that is designed to measure the global equity market performance of developed markets. The term "free float" represents the portion of shares outstanding that are deemed to be available for purchase in the public equity markets by investors. The performance of the Index is listed in U.S. dollars and assumes reinvestment of net dividends.

The **MSCI USA Health Care Index** is designed to capture the large and mid cap segments of the US equity universe. All securities in the index are classified in the Health Care sector as per the Global Industry Classification Standard.

**Morningstar LSTA U.S. Leveraged Loan Index** is an unmanaged index of the institutional leveraged loan market. Prior to August 29, 2022, the index name was S&P/LSTA Leveraged Loan Index.

**Nikkei 225 Stock Average Index** is unmanaged price-weighted index of 225 top-rated Japanese companies listed in the First Section of the Tokyo Stock Exchange.

**Russell 1000 Index** is an unmanaged index of 1,000 U.S. large-cap stocks.

**Russell 1000 Growth Index** is an unmanaged index of 1,000 U.S. large-cap growth stocks.

**Russell 1000 Value Index** is an unmanaged index of 1,000 U.S. large-cap value stocks.

**Russell 2000 Index** is an unmanaged index of 2,000 U.S. small-cap stocks.

**Russell 2500 Index** is an unmanaged index of approximately 2,500 U.S. small- and mid-cap U.S. stocks.

**Russell Midcap Index** is an unmanaged index of U.S. mid-cap stocks.

**Standard & Poor's 400 Index** is designed to measure the performance of 400 mid-sized U.S. companies, reflecting the distinctive risk and return characteristics of this market segment.

**Standard & Poor's 493 Index** is designed to measure the performance of the S&P 500 excluding the "Mag 7" i.e. Alphabet, Amazon, Apple, Meta, Microsoft, Nvidia and Tesla.

**Standard & Poor's 500 Index** is an unmanaged index of large-cap stocks commonly used as a measure of U.S. stock market performance.

**STOXX Europe 600 Index** is a fixed component number index designed to provide a broad yet liquid representation of large, mid and small capitalization companies in Europe.

**ICE BofA Indexes:** ICE® BofA® indices are not for redistribution or other uses; provided "as is", without warranties, and with no liability. Eaton Vance has prepared this report and ICE Data Indices, LLC does not endorse it, or guarantee, review, or endorse Eaton Vance's products. BofA® is a licensed registered trademark of Bank of America Corporation in the United States and other countries.

**MSCI Indexes:** Source: MSCI. MSCI data may not be reproduced or used for any other purpose. MSCI provides no warranties, has not prepared or approved this report, and has no liability hereunder.

**J.P. Morgan Indices:** Information has been obtained from sources believed to be reliable, but J.P. Morgan does not warrant its completeness or accuracy. The Index is used with permission. The Index may not be copied, used, or distributed without J.P. Morgan's prior written approval. Copyright 2019, J.P. Morgan Chase & Co. All rights reserved.

**S&P Dow Jones Indices** are a product of S&P Dow Jones Indices LLC ("S&P DJI") and have been licensed for use. S&P® and S&P 500® are registered trademarks of S&P DJI; Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones"); S&P DJI, Dow Jones and their respective affiliates do not

sponsor, endorse, sell or promote the Fund, will not have any liability with respect thereto and do not have any liability for any errors, omissions, or interruptions of the S&P Dow Jones Indices.

Unless otherwise stated, index returns do not reflect the effect of any applicable sales charges, commissions, expenses, taxes or leverage, as applicable. It is not possible to invest directly in an index. Data provided is for informational use only. Past performance is no guarantee of future results. See end of report for important additional information.

**Municipal-to-Treasury Yield Ratios** are relative value indicators that measure the richness or cheapness of Municipal bond yields to comparable maturity Treasury bond yields.

## Terms

**Yield to Worst** is a measure which reflects the lowest potential yield earned on a bond without the issuer defaulting. The yield to worst is calculated by making worst-case scenario assumptions by calculating the returns that would be received if provisions, including prepayment, call or sinking fund, are used by the issuer.

## About Risk

**Bank Loans** – There can be no assurance that the liquidation of collateral securing an investment will satisfy the issuer's obligation in the event of non-payment or that collateral can be readily liquidated. The ability to realize the benefits of any collateral may be delayed or limited. **Commodities** – The value of commodities investments will generally be affected by overall market movements and factors specific to a particular industry or commodity including weather, embargoes, tariffs, or health, political, international and regulatory developments. **Credit** – Investments in income securities may be affected by changes in the creditworthiness of the issuer and are subject to the risk of non-payment of principal and interest. The value of income securities also may decline because of real or perceived concerns about the issuer's ability to make principal and interest payments. **Duration** – Securities with longer durations tend to be more sensitive to interest rate changes than securities with shorter durations. **Equity** – Equity investment values are sensitive to stock market volatility. **Foreign** – Investments in foreign instruments or currencies can involve greater risk and volatility than U.S. investments because of adverse market, economic, political, regulatory, geopolitical, or other conditions. In emerging countries, these risks may be more significant. **Gov't Agency** – While certain U.S. Government-sponsored agencies may be chartered or sponsored by acts of Congress, their securities are neither issued nor guaranteed by the U.S. Treasury. **Income Market** – An imbalance in supply and demand in the income market may result in valuation uncertainties and greater volatility, less liquidity, widening credit spreads and a lack of price transparency in the market. There generally is limited public information about Municipal issuers. **Inflation-Linked** – Interest payments on inflation-linked securities may vary widely and will fluctuate as principal and interest are adjusted for inflation. Investments in inflation-linked securities may lose value in the event that the actual rate of inflation is different than the rate of the inflation index. **Interest Rate** – As interest rates rise, the value of certain income investments is likely to decline.. **Lower-Rated** – Investments rated below Investment Grade (typically referred to as "junk") are generally subject to greater price volatility and illiquidity than higher rated investments. **Maturity** – Longer-term bonds typically are more sensitive to interest rate changes than shorter-term bonds. **Preferred Stocks** – When interest rates rise, the value of preferred stocks will generally decline. **Prepayment - MBS** – Mortgage-backed securities are subject to prepayment risk. **Prepayment - Bank Loan** – Bank Loans are subject to prepayment risk. **Real Estate** – Changes in real estate values or economic downturns can have a significant negative effect on issuers in the real estate industry, including REITs.

## ADDITIONAL INFORMATION

### Risk Considerations

Diversification does not eliminate the risk of loss.

In general, equity securities' values also fluctuate in response to activities specific to a company. Investments in foreign markets entail special risks such as currency, political, economic, and market risks. The risks of investing in emerging market countries are greater than risks associated with investments in foreign developed countries. Fixed income securities are subject to the ability of an issuer to make timely principal and interest payments (credit risk), changes in interest rates (interest-rate risk), the creditworthiness of the issuer and general market liquidity (market risk). In a rising interest-rate environment, bond prices may fall and may result in periods of volatility and increased portfolio redemptions. In a declining interest-rate environment, the portfolio may generate less income. Longer-term securities may be more sensitive to interest rate changes. Alternative investments are speculative, involve a high degree of risk, are highly illiquid, typically have higher fees than other investments, and may engage in the use of leverage, short sales, and derivatives, which may increase the risk of investment loss. These investments are designed for investors who understand and are willing to accept these risks. Performance may be volatile, and an investor could lose all or a substantial portion of its investment.

There is no guarantee that any investment strategy will work under all market conditions, and each investor should evaluate their ability to invest for the long-term, especially during periods of downturn in the market.

**A separately managed account may not be appropriate for all investors. Separate accounts managed according to the Strategy include a number of securities and will not necessarily track the performance of any index. Please consider the investment objectives, risks and fees of the Strategy carefully before investing. A minimum asset level is required.**

**For important information about the investment managers, please refer to Form ADV Part 2.**

The views and opinions and/or analysis expressed are those of the author or the investment team as of the date of preparation of this material and are subject to change at any time without notice due to market or economic conditions and may not necessarily come to pass. Furthermore, the views will not be updated or otherwise revised to reflect information that subsequently becomes available or circumstances existing, or changes occurring, after the date of publication. The views expressed do not reflect the opinions of all investment personnel at Morgan Stanley Investment Management (MSIM) and its subsidiaries and affiliates (collectively "the Firm") and may not be reflected in all the strategies and products that the Firm offers.

Forecasts and/or estimates provided herein are subject to change and may not actually come to pass. Information regarding expected market returns and market outlooks is based on the research, analysis and opinions of the authors or the investment team. These conclusions are speculative in nature, may not come to pass and are not intended to predict the future performance of any specific strategy or product the Firm offers. Future results may differ significantly depending on factors such as changes in securities or financial markets or general economic conditions.

This material has been prepared on the basis of publicly available information, internally developed data and other third-party sources believed to be reliable. However, no assurances are provided regarding the reliability of such information and the Firm has not sought to independently verify information taken from public and third-party sources.

This material is a general communication, which is not impartial, and all information provided has been prepared solely for informational and educational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The information herein has not been based on a consideration of any individual investor circumstances and is not investment advice, nor should it be construed in any way as tax, accounting, legal or regulatory advice. To that end, investors should seek independent legal and financial advice, including advice as to tax consequences, before making any investment decision.

The Firm does not provide tax advice. The tax information contained herein is general and is not exhaustive by nature. It was not intended or written to be used, and it cannot be used by any taxpayer, for the purpose of avoiding penalties that may be imposed on the taxpayer. Each Jurisdiction tax laws are complex and constantly changing. You should always consult your own legal or tax professional for information concerning your individual situation.

Charts and graphs provided herein are for illustrative purposes only. **Past performance is no guarantee of future results.**

The indexes are unmanaged and do not include any expenses, fees or sales charges. It is not possible to invest directly in an index. Any index referred to herein is the intellectual property (including registered trademarks) of the applicable licensor. Any product based on an index is in no way sponsored, endorsed, sold or promoted by the applicable licensor and it shall not have any liability with respect thereto.

This material is not a product of Morgan Stanley's Research Department and should not be regarded as a research material or a recommendation.

The Firm has not authorized financial intermediaries to use and to distribute this material, unless such use and distribution is made in accordance with applicable law and regulation. Additionally, financial intermediaries are required to satisfy themselves that the information in this material is appropriate for any person to whom they provide this material in view of that person's circumstances and purpose. The Firm shall not be liable for, and accepts no liability for, the use or misuse of this material by any such financial intermediary.

This material may be translated into other languages. Where such a translation is made this English version remains definitive. If there are any discrepancies between the English version and any version of this material in another language, the English version shall prevail.

## ADDITIONAL INFORMATION

The whole or any part of this material may not be directly or indirectly reproduced, copied, modified, used to create a derivative work, performed, displayed, published, posted, licensed, framed, distributed or transmitted or any of its contents disclosed to third parties without the Firm's express written consent. This material may not be linked to unless such hyperlink is for personal and non-commercial use. All information contained herein is proprietary and is protected under copyright and other applicable law.

Eaton Vance is part of Morgan Stanley Investment Management. Morgan Stanley Investment Management is the asset management division of Morgan Stanley.

### **DISTRIBUTION**

**This material is only intended for and will only be distributed to persons resident in jurisdictions where such distribution or availability would not be contrary to local laws or regulations.**

**MSIM, the asset management division of Morgan Stanley (NYSE: MS), and its affiliates have arrangements in place to market each other's products and services. Each MSIM affiliate is regulated as appropriate in the jurisdiction it operates. MSIM's affiliates are: Eaton Vance Management (International) Limited, Eaton Vance Advisers International Ltd, Calvert Research and Management, Eaton Vance Management, Parametric Portfolio Associates LLC, and Atlanta Capital Management LLC.**

This material has been issued by any one or more of the following entities:

### **EMEA**

This material is for Professional Clients/Accredited Investors only.

In the EU, MSIM and Eaton Vance materials are issued by MSIM Fund Management (Ireland) Limited ("FMIL"). FMIL is regulated by the Central Bank of Ireland and is incorporated in Ireland as a private company limited by shares with company registration number 616661 and has its registered address at 24-26 City Quay, Dublin 2, D02 NY19, Ireland.

Outside the EU, MSIM materials are issued by Morgan Stanley Investment Management Limited (MSIM Ltd) is authorised and regulated by the Financial Conduct Authority. Registered in England. Registered No. 1981121. Registered Office: 25 Cabot Square, Canary Wharf, London E14 4QA.

In Switzerland, MSIM materials are issued by Morgan Stanley & Co. International plc, London (Zurich Branch) Authorised and regulated by the Eidgenössische Finanzmarktaufsicht ("FINMA"). Registered Office: Beethovenstrasse 33, 8002 Zurich, Switzerland.

Outside the US and EU, Eaton Vance materials are issued by Eaton Vance Management (International) Limited ("EVMI") 125 Old Broad Street, London, EC2N 1AR, UK, which is authorised and regulated in the United Kingdom by the Financial Conduct Authority.

**Italy:** MSIM FMIL (Milan Branch), (Sede Secondaria di Milano) Palazzo Serbelloni Corso Venezia, 16 20121 Milano, Italy. **The Netherlands:** MSIM FMIL (Amsterdam Branch), Rembrandt Tower, 11th Floor Amstelplein 1 1096HA, Netherlands. **France:** MSIM FMIL (Paris Branch), 61 rue de Monceau 75008 Paris, France.

**Spain:** MSIM FMIL (Madrid Branch), Calle Serrano 55, 28006, Madrid, Spain. **Germany:** MSIM FMIL Frankfurt Branch, Große Gallusstraße 18, 60312 Frankfurt am Main, Germany (Gattung: Zweigniederlassung (FDI) gem. § 53b KWG). **Denmark:** MSIM FMIL (Copenhagen Branch), Gorrisen Federspiel, Axel Towers, Axeltorv2, 1609 Copenhagen V, Denmark.

### **MIDDLE EAST**

**Dubai:** MSIM Ltd (Representative Office, Unit Precinct 3-7th Floor-Unit 701 and 702, Level 7, Gate Precinct Building 3, Dubai International Financial Centre, Dubai, 506501, United Arab Emirates. Telephone: +97 (0)14 709 7158).

This document is distributed in the Dubai International Financial Centre by Morgan Stanley Investment Management Limited (Representative Office), an entity regulated by the Dubai Financial Services Authority ("DFSA"). It is intended for use by professional clients and market counterparties only. This document is not intended for distribution to retail clients, and retail clients should not act upon the information contained in this document.

This document relates to a financial product which is not subject to any form of regulation or approval by the DFSA. The DFSA has no responsibility for reviewing or verifying any documents in connection with this financial product. Accordingly, the DFSA has not approved this document or any other associated documents nor taken any steps to verify the information set out in this document and has no responsibility for it. The financial product to which this document relates may be illiquid and/or subject to restrictions on its resale or transfer. Prospective purchasers should conduct their own due diligence on the financial product. If you do not understand the contents of this document, you should consult an authorised financial adviser.

**South Africa:** Issued by Morgan Stanley Investment Management Limited (MSIM Ltd) authorised and regulated in the UK by the Financial Conduct Authority. Registered in England. No. 1981121. Registered Office: 25 Cabot Square, Canary Wharf, London E14 4QA. MSIM Ltd is regulated in South Africa by the Financial Sector Conduct Authority ("FSCA") as a Category 1 Financial Services Provider (FSP No 9752) to provide intermediary services in relation to certain financial products.

### **U.S.**

**NOT FDIC INSURED | OFFER NO BANK GUARANTEE | MAY LOSE VALUE | NOT INSURED BY ANY FEDERAL GOVERNMENT AGENCY | NOT A DEPOSIT**

### **LATIN AMERICA (Brazil, Chile, Colombia, Mexico, Peru, and Uruguay)**

This material is for use with an institutional investor or a qualified investor only. All information contained herein is confidential and is for the exclusive use and review of the intended addressee, and may not be passed on to any third party. This material is provided for informational purposes only and does not constitute a public offering, solicitation or recommendation to buy or sell for any product, service, security and/or strategy. A decision to invest should only be made after reading the strategy documentation and conducting in-depth and independent due diligence.

## ADDITIONAL INFORMATION

### ASIA PACIFIC

**Hong Kong:** This material is disseminated by Morgan Stanley Asia Limited for use in Hong Kong and shall only be made available to "professional investors" as defined under the Securities and Futures Ordinance of Hong Kong (Cap 571). The contents of this material have not been reviewed nor approved by any regulatory authority including the Securities and Futures Commission in Hong Kong. Accordingly, save where an exemption is available under the relevant law, this material shall not be issued, circulated, distributed, directed at, or made available to, the public in Hong Kong. **Singapore:** This material is disseminated by Morgan Stanley Investment Management Company and should not be considered to be the subject of an invitation for subscription or purchase, whether directly or indirectly, to the public or any member of the public in Singapore other than (i) to an institutional investor under section 304 of the Securities and Futures Act, Chapter 289 of Singapore ("SFA"); (ii) to a "relevant person" (which includes an accredited investor) pursuant to section 305 of the SFA, and such distribution is in accordance with the conditions specified in section 305 of the SFA; or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA. This publication has not been reviewed by the Monetary Authority of Singapore. **Australia:** This material is provided by Morgan Stanley Investment Management (Australia) Pty Ltd ABN 22122040037, AFSL No. 314182 and its affiliates and does not constitute an offer of interests. Morgan Stanley Investment Management (Australia) Pty Limited arranges for MSIM affiliates to provide financial services to Australian wholesale clients. Interests will only be offered in circumstances under which no disclosure is required under the Corporations Act 2001 (Cth) (the "Corporations Act"). Any offer of interests will not purport to be an offer of interests in circumstances under which disclosure is required under the Corporations Act and will only be made to persons who qualify as a "wholesale client" (as defined in the Corporations Act). This material will not be lodged with the Australian Securities and Investments Commission.

**Japan:** For professional investors, this material is circulated or distributed for informational purposes only. For those who are not professional investors, this material is provided in relation to Morgan Stanley Investment Management (Japan) Co., Ltd. ("MSIMJ")'s business with respect to discretionary investment management agreements ("IMA") and investment advisory agreements ("IAA"). This is not for the purpose of a recommendation or solicitation of transactions or offers any particular financial instruments. Under an IMA, with respect to management of assets of a client, the client prescribes basic management policies in advance and commissions MSIMJ to make all investment decisions based on an analysis of the value, etc. of the securities, and MSIMJ accepts such commission. The client shall delegate to MSIMJ the authorities necessary for making investment. MSIMJ exercises the delegated authorities based on investment decisions of MSIMJ, and the client shall not make individual instructions. All investment profits and losses belong to the clients; principal is not guaranteed. Please consider the investment objectives and nature of risks before investing. As an investment advisory fee for an IAA or an IMA, the amount of assets subject to the contract multiplied by a certain rate (the upper limit is 2.20% per annum (including tax)) shall be incurred in proportion to the contract period. For some strategies, a contingency fee may be incurred in addition to the fee mentioned above. Indirect charges also may be incurred, such as brokerage commissions for incorporated securities. Since these charges and expenses are different depending on a contract and other factors, MSIMJ cannot present the rates, upper limits, etc. in advance. All clients should read the Documents Provided Prior to the Conclusion of a Contract carefully before executing an agreement. This material is disseminated in Japan by MSIMJ, Registered No. 410 (Director of Kanto Local Finance Bureau (Financial Instruments Firms)), Membership: the Japan Securities Dealers Association, The Investment Trusts Association, Japan, the Japan Investment Advisers Association and the Type II Financial Instruments Firms Association.

RO 4940267    Exp 11/30/2026

43274 | 11/5/2025