





WRITTEN BY

The Loomis Sayles Mortgage and Structured Finance Team

Negative technical factors rather than fundamental concerns are driving today's attractive spread levels in highquality securitized bonds.

Fundamentals in securitized bonds backed by residential real estate and consumerrelated assets are strong, but some of their biggest institutional buyers have stepped back from the market for technical reasons after the sharp rise in interest rates. In our view, this gives investors a unique opportunity to consider buying securitized assets at attractive prices and with historically high levels of carry that can provide a buffer in the event of an economic slowdown.



Note: This piece focuses on the strength of consumer and residential real estate, which underlie a significant portion of the securitized asset market; however, we believe fundamentals are decidedly mixed for commercial real estate. Please see our blog post <u>"Commercial Real Estate: We Believe the 'Doom Loop' Continues to Unfold"</u> to learn more about our views on this sector.

Key Takeaways

- Challenging technicals have been driven by the sharp rise in interest rates and a slump in demand after US banks and the Fed moved to the sidelines.
- Despite poor technicals in securitized sectors, fundamentals remain positive in consumer credit and residential real estate.
- Given the current levels of high carry and short spread duration in securitized assets, we believe it would take a significant rise in yields to produce negative annual total returns.

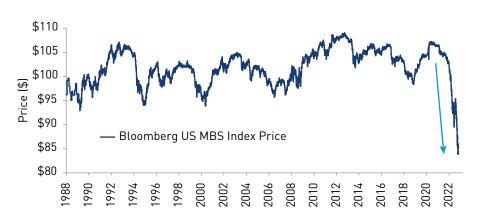
2022: A Year of Historic Destruction in Bond Values

In 2021, many market participants expected the Federal Reserve's ultra-easy monetary policy to remain intact for the next few years as the economy recovered from COVID-19. Inflation breakeven rates at the time suggested that few investors expected inflation to spiral higher in 2022. However, inflation did exactly that. With consumer prices soaring, nominal interest rates spiked upward as the market priced in the prospect of tighter monetary policy.

The Fed proceeded to hike its policy interest rate by an aggressive 425 basis points (bps) during 2022 in an effort to drive down inflation. Predictably, the bond market took a historic beating. A decade's worth of real (inflation-adjusted) returns was wiped off the Bloomberg US Aggregate Bond Index. Agency mortgage-backed securities (MBS), one of the most interest-rate-sensitive fixed income sectors, saw total returns decline by an astounding 12% during 2022.



AGENCY MBS SOLD OFF SHARPLY IN 2022

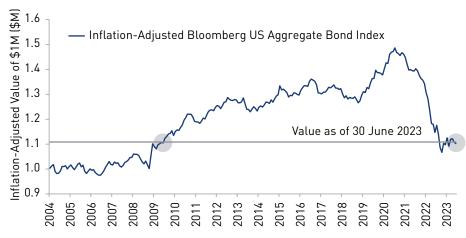


Source: Bloomberg, as of 30 June 2023.

Past performance is no guarantee of future results.

LOST DECADE

Fed rate hikes in 2022 sent inflation-adjusted US bond values back to their 2009 level.



Source: Bloomberg, Inflation-Adjusted US Aggregate Bond Index (LBUSTRUU Index / CPI INDX Index). Data as of 30 June 2023.

Past performance is no guarantee of future results.

Falling Bond Prices Hit US Banks and the Fed Hardest

When COVID was at its height in 2020 and 2021, the Fed and US banks were active participants in the agency MBS market. Banks traditionally had been large MBS holders to take advantage of their spread pickup over low-yielding Treasurys, as well as the strong liquidity and MBS' favorable treatment under bank capital regulations. For its part, the Fed aggressively bought agency MBS during its quantitative easing program during the pandemic to provide liquidity and calm markets.

By the end of 2021, the Fed held \$2.7 trillion in agency MBS and US banks held \$2.9 trillion, respectively 20% and 16% higher than at the start of that year by market value. However, these assets sharply sold off in 2022 as interest rates rose rapidly. By the end of September 2022, there were unrealized losses



of \$438 billion in the Fed's System Open Market Account (SOMA) portfolio agency MBS holdings. US banks collectively were sitting on \$690 billion in unrealized losses on available-for-sale and held-to-maturity agency MBS holdings. As a result, many banks did not want to trade their agency MBS holdings to avoid taking these losses on their income statements.

Rising interest rates also had a negative impact on bank liabilities. As the Fed rate hikes continued, customers pulled deposits from low-yielding bank accounts and moved them into money market mutual funds where they could earn better rates. This deposit flight greatly reduced banks' source of cheap funding. To help plug the outflow of deposits, banks began to increase rates on their checking and savings accounts. However, some of the deposit flight damage was already done, and banks needed additional capital to support their required liquidity ratios. As a result, they borrowed from sources like the Federal Home Loan Banks and Fed funding programs to increase their funding even though these entities charged very high interest rates. In sum, the outflow of deposits and the increased cost of capital greatly reduced banks' desire to add assets like agency MBS to their balance sheets.

BALANCE SHEET WOES

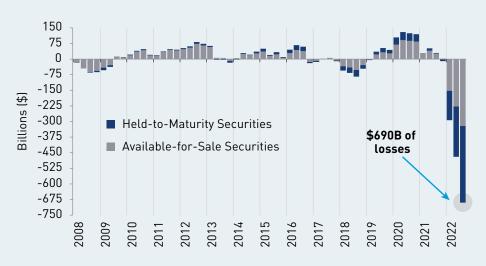
The Fed's unrealized losses in agency MBS exceeded \$438 billion as of September 2022, while US banks were carrying another \$690 billion in unrealized agency MBS losses.

	DOMESTIC SOMA PORTFOLIO HOLDINGS (\$M)					
	30 September 2022			31 December 2021		
	Amortized Cost	Fair Value	Cumulative Unrealized Gains/ Losses, Net	Amortized Cost	Fair Value	Cumulative Unrealized Gains/ Losses, Net
TREASURY SECURITIES						
Bills	307,878	307,407	(471)	325,956	325,929	(27)
Notes	3,690,110	3,388,633	(301,477)	3,812,476	3,802,434	(10,042)
Bonds	1,875,722	1,490,506	(385,216)	1,778,994	1,923,692	144,698
Total Treasury Securities	5,873,710	5,186,546	(687,164)	5,917,426	6,052,055	134,629
FEDERAL AGENCY AND GSE MBS						
Residential	2,746,855	2,310,190	(436,665)	2,675,057	2,667,752	(7,305)
Commercial	9,444	7,816	(1,628)	10,211	10,068	(143)
Total Federal Agency and GSE MBS	2,756,299	2,318,006	[438,293]	2,685,268	2,677,820	(7,448)
GSE DEBT SECURITIES	2,590	2,745	155	2,610	3,298	688
TOTAL DOMESTIC SOMA PORTFOLIO SECURITIES HOLDINGS	8,632,599	7,507,297	(1,125,302)	8,605,304	8,733,173	127,869

Source: US Federal Reserve, data as of 30 September 2022. Past performance is no guarantee of future results.



UNREALIZED
GAINS (LOSSES)
ON INVESTMENT
SECURITIES



Source: FDIC, data as of 30 September 2022. Past performance is no guarantee of future results.

Agency MBS Technicals Weaken as Big Buyers Step Back

During 2022, the Fed and US banks, previously the two biggest buyers of agency MBS, moved to the sidelines. The Fed engaged in quantitative tightening (QT) as banks faced deposit flight and higher borrowing costs. This slump in demand worsened the technical situation for the agency MBS market.

This was exacerbated by the regional banking crisis that emerged in the first quarter of 2023 when the Federal Deposit Insurance Corporation (FDIC) was forced to take over Signature Bank and Silicon Valley Bank. These represented the largest bank failures in US history since 2008. After the FDIC takeover, some \$100 billion of agency MBS holdings on the balance sheets of the two failed banks needed to be liquidated, putting further strain on valuations in the sector.

The banking crisis also caused some banking executives to reduce their assumptions regarding deposit duration, given the ease with which customers were pulling cash out of their bank accounts. As duration expectations shortened on the liability side, some banks were unwilling to add duration in their asset portfolios, further reducing bank demand for agency MBS and putting additional pressure on valuations.

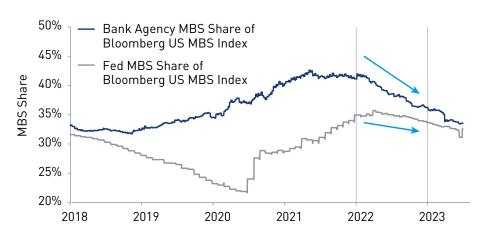
As the banks and the Fed stepped back from the agency MBS market, spreads widened dramatically. During the first quarter of 2023, nominal current coupon MBS spreads expanded to a near-decade high, surpassing the highs seen in late 2022 and during the COVID panic in March 2020. The widening in spreads caused agency MBS to significantly underperform comparable fixed income classes. For example, in the three years from 31 March 2020 through 31 March 2023, agency MBS generated a cumulative negative 17% excess return versus investment grade corporate bonds. This underperformance is all the more remarkable given



that agency MBS are government guaranteed while corporate bonds inherently carry the risk of principal loss (i.e., credit risk). Not only did the sector underperform, but its volatility reached historic highs. Over the 12 months ending 31 January 2023, agency MBS experienced six instances of monthly excess returns exceeding two standard deviations from historical norms. Statistically, we would have expected just one such monthly move over that period.

ON THE SIDELINES

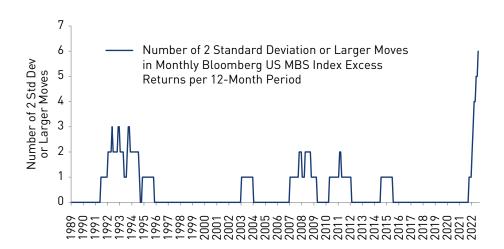
Both the Fed and the US banks pulled back from the agency MBS market in 2022.



Source: Bloomberg. Share of US MBS Index, 2018-2023, .FEDMBSTOT Comdy / LUMSTRUU Index and ALBNTANB Index / LUMSTRUU Index. Data as of 30 June 2023. Past performance is no guarantee of future results.

VOLATILITY SPIKES

Agency MBS monthly excess returns made six moves of two standard deviations or more in the year ended 31 January 2023, far above the historical average.



Source: Bloomberg US MBS Index. Number of two standard deviation or bigger moves in monthly agency MBS excess returns over Treasurys per 12-month period. Data as of 31 January 2023. Past performance is no guarantee of future results.



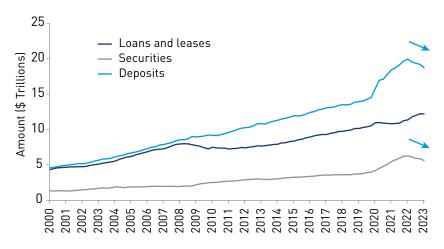
Challenging Technicals Spill Over Into Securitized Credit

Banks have reduced their demand for many types of bond securities on their balance sheets, not just agency MBS. Of note is securitized credit, the third-largest sector that banks typically hold in their portfolios after agency MBS and Treasurys. Securitized credit includes asset-backed securities (ABS), collateralized loan obligations (CLOs), non-agency residential mortgage-backed securities (RMBS), and commercial mortgage-backed securities (CMBS).

Within this sector, banks have typically been most active in AAA-rated CLOs and ABS—that is, until recently. Starting in the first quarter of 2023, the banks have meaningfully pared back their participation in new issue AAA-rated CLOs and ABS, requiring other buyers with different return objectives to step in and fill the void.

SECURITIES SLUMP

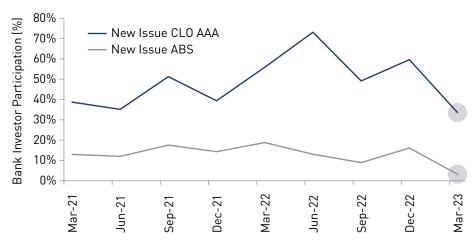
US bank deposit outflows led to lower demand for securities.



Source: US Federal Reserve. US bank deposits, loans and securities holdings in \$ trillions. Data as of 31 March 2023. **Past performance is no guarantee of future results.**

STAYING AWAY

US banks have sharply pared back their participation in newissue CLO AAAs and ABS, requiring other buyers to step in.



Source: J.P. Morgan Securities. Bank investor participation in new-issue AAA CLOs and ABS, by percentage. Data as of 31 March 2023.

Past performance is no guarantee of future results.



Weak Technicals May Be a Headwind, but Securitized Fundamentals Are Strong

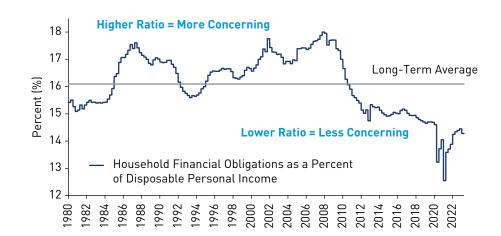
Despite the poor technicals in securitized sectors, fundamentals remain positive, with delinquencies for prime borrowers at or below pre-COVID levels. Over the past year, consumers have enjoyed high employment, strong wage growth, and locked-in rates on historically low fixed-rate mortgages. In 2021, the household financial obligation ratio (financial obligations as a percent of disposable personal income) hit a 40-year low, and it remains well below its historical average today.

Housing fundamentals that underlie RMBS are also positive. Today's housing market is much sounder than it was in 2008, given stricter underwriting standards, high levels of homeowner equity and more frequent use of loan modification programs. Housing prices are also well supported by depressed home inventories, which are the result of the recent trend of borrowers not wanting to give up their low-interest-rate mortgages, and the long-term impact of underbuilding that has left the US short of millions of homes.

On the agency MBS side, prepayment speeds have likely bottomed due to higher interest rates. We believe their bond prices, currently deeply discounted, should steadily benefit from continued turnover in the housing base.

FEELING FLUSH

Household finances are in their best shape in 40 years, supporting the fundamentals for securitized assets.



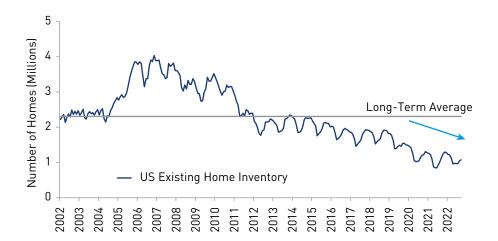
Source: Board of Governors of the Federal Reserve System (US), Household Financial Obligations as a Percent of Disposable Personal Income [FODSP], retrieved from FRED, Federal Reserve Bank of St. Louis; https://fred.stlouisfed.org/series/FODSP. Data as of 30 June 2023.

Past performance is no guarantee of future results.



RUNNING LOW

Depressed home inventories are well below the long-term average, another layer of support for housing prices.



Source: National Association of Realtors. Existing home inventory in millions. Data as of 30 June 2023.

Past performance is no guarantee of future results.

High Carry and Short Duration Make For an Attractive Investment Opportunity

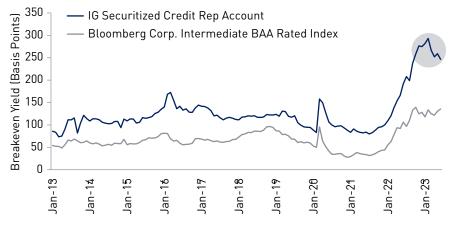
We believe that negative bond technicals rather than fundamental concerns are driving today's attractive spread levels in high-quality residential and consumer-related securitized assets compared to investment grade corporates. In our view, this gives investors a unique opportunity to buy securitized assets with historically high levels of carry. Given securitized assets' high carry and short spread duration, it would take a significant rise in yields in order to produce negative annual total returns. We believe the inverted Treasury yield curve is another reason to consider securitized assets for their higher yields and shorter durations.

There remains the risk that the economic environment could worsen if inflation remains sticky and the Fed needs to hike interest rates further. However, we believe macro pressures would likely show up first in corporate-exposed bonds rather than securitized bonds, given the strong consumer and residential real estate fundamentals we have described. Even if spreads do widen in certain securitized sectors, we believe today's notably high carry should give investors a strong buffer for protecting returns in the event of an economic slowdown. That said, buyers should carefully analyze all aspects of a securitized deal—collateral, structure, sponsor, etc.—before investing.



LARGE BREAKEVEN

Securitized assets would need to experience a significant rise in yields to produce negative annual total returns.

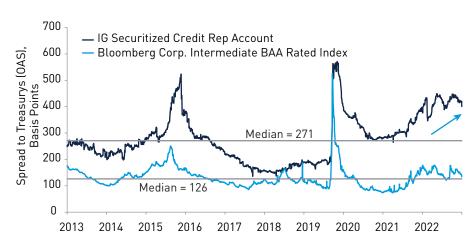


Source: Loomis Sayles. Data 1 January 2013 – 30 June 2023. Breakeven Yield equals Yield to Worst / Spread Duration.

Past performance is no guarantee of future results.

SUPER SPREADS

Wide spreads on quality securitized assets present a unique buying opportunity for investors.

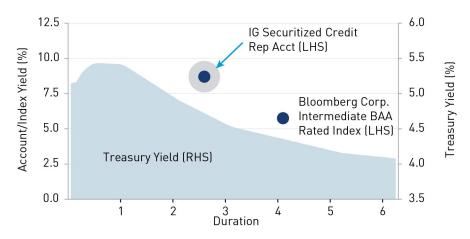


Source: Loomis Sayles. 10-Year history of spread to US Treasurys in basis points, IG securitized credit and IG corporate BBB rated bonds. Data as of 30 June 2023.

Past performance is no guarantee of future results.

SWEET SPOT

Securitized credit stands apart for its high yield combined with short duration, especially given an inverted Treasury yield curve.



Source: Loomis Sayles, Bloomberg. Yield vs duration, securitized credit and corporate bonds. Data as of 30 June 2023.

Past performance is no guarantee of future results.



AUTHORS



Alessandro Pagani, CFAPortfolio Manager, Head of
Mortgage & Structured Finance



lan Anderson Portfolio Manager, Agency MBS Strategist, Mortgage & Structured Finance



David Rittner, CFAInvestment Strategist,
Mortgage & Structured
Finance

Endnotes

- ⁱ The inflation breakeven rate is the difference between the nominal yield on a fixed-rate investment and the real yield on an inflation-linked investment of similar maturity and credit quality. If inflation averages more than the breakeven, the inflation-linked investment will outperform the fixed-rate.
- ii Agency mortgage-backed securities (MBS) are pools of residential mortgage loans securitized, issued and guaranteed by a US government agency, either Government National Mortgage Association (GNMA or Ginnie Mae), Federal National Mortgage (FNMA or Fannie Mae), or Federal Home Loan Mortgage Corp. (Freddie Mac). Agency MBS represent the second-largest segment of the US bond market after Treasurys, and account for roughly 25% of the Bloomberg US Aggregate Index.
- iii Source: Bloomberg, Agency US MBS Index. Data for the year ending 31 December 2022.
- iv Source: Bloomberg Indices: ALCBGOMB Index and .FEDMBSTOT Comdty
- " The US Federal Reserve's System Open Market Account (SOMA) contains assets acquired through open market operations—that is, the purchase and sale of securities in the open market to manage liquidity and acquire assets as collateral for the Fed's balance sheet.
- vi Securitized credit in the US fixed income market is a large and diversified sector. It is generally understood to include: 1) asset-backed securities (ABS), created by packaging various types of consumer debt like credit card receivables, auto loans, manufactured housing contracts, home equity loans and student loans; 2) collateralized loan obligations (CLOs), or securitized portfolios of commercial bank loans issued to smaller companies; 3) non-agency residential mortgage-backed securities (RMBS)—securitized residential mortgages not backed by a government agency, and 4) commercial mortgage-backed securities (CMBS), or securitized mortgages on commercial properties, such as retail, office, industrial, multi-family housing and hotels.

Disclosure

This paper is provided for informational purposes only and should not be construed as investment advice. Opinions or forecasts contained herein reflect the subjective judgments and assumptions of the authors only and do not necessarily reflect the views of Loomis, Sayles & Company, L.P. Other industry analysts and investment personnel may have different views and opinions. Investment recommendations may be inconsistent with these opinions. There is no assurance that developments will transpire as forecasted, and actual results will be different. Data and analysis does not represent the actual or expected future performance of any investment product. We believe the information, including that obtained from outside sources, to be correct, but we cannot guarantee its accuracy. The information is subject to change at any time without notice.

Any investment that has the possibility for profits also has the possibility of losses, including the loss of principal.

Market conditions are extremely fluid and change frequently.

Past performance is no guarantee of, and not necessarily indicative of, future results.

Indices are unmanaged and do not incur fees. It is not possible to invest directly in an index.

The charts presented above are shown for illustrative purposes only. Some or all of the information on these charts may be dated, and, therefore, should not be the basis to purchase or sell any securities. The information is not intended to represent any actual portfolio.

LS Loomis | Sayles is a trademark of Loomis, Sayles & Company, L.P. registered in the US Patent and Trademark Office.

Additional Notes

This material has been provided for information purposes only to investment service providers or other Professional Clients, Qualified or Institutional Investors and, when required by local regulation, only at their written request. This material must not be used with Retail Investors.

To obtain a summary of investor rights in the official language of your jurisdiction, please consult the legal documentation section of the website (im.natixis.com/intl/intl-fund-documents)

Provided by Natixis Investment Managers S.A. or one of its branch offices listed below. Natixis Investment Managers S.A. is a Luxembourg management company that is authorized by the Commission de Surveillance du Secteur Financier and is incorporated under Luxembourg laws and registered under n. B 115843. Registered office of Natixis Investment Managers S.A.: 2, rue Jean Monnet, L-2180 Luxembourg, Grand Duchy of Luxembourg. Belgium: Natixis Investment Managers S.A., Belgian Branch, Gare Maritime, Rue Picard 7, Bte 100, 1000 Bruxelles, Belgium.

In Switzerland: Provided for information purposes only by Natixis Investment Managers, Switzerland Sarl, Rue du Vieux Collège 10, 1204 Geneva, Switzerland or its representative office in Zurich, Schweizergasse 6, 8001 Zürich.

In the British Isles: Provided by Natixis Investment Managers UK Limited which is authorised and regulated by the UK Financial Conduct Authority (register no. 190258) - registered office: Natixis Investment Managers UK Limited, One Carter Lane, London, EC4V 5ER. When permitted, the distribution of this material is intended to be made to persons as described as follows: in the United Kingdom: this material is intended to be communicated to and/or directed at investment professionals and professional investors only; in Ireland: this material is intended to be communicated to and/or directed at professional investors only; in Guernsey: this material is intended to be communicated to and/or directed at only financial services providers which hold a license from the Guernsey Financial Services Commission; in Jersey: this material is intended to be communicated to and/or directed at professional investors only; in the Isle of Man: this material is intended to be communicated to and/or directed at professional investors only; in the Isle of Man: this material is intended to be communicated to and/or directed at only financial services providers which hold a license from the Isle of Man Financial Services Authority or insurers authorised under section 8 of the Insurance Act 2008.

In the DIFC: Provided in and from the DIFC financial district by Natixis Investment Managers Middle East (DIFC Branch) which is regulated by the DFSA. Related financial products or services are only available to persons who have sufficient financial experience and understanding to participate in financial markets within the DIFC, and qualify as Professional Clients or Market Counterparties as defined by the DFSA. No other Person should act upon this material. Registered office: Unit L10-02, Level 10, ICD Brookfield Place, DIFC, PO Box 506752, Dubai, United Arab Emirates

In Japan: Provided by Natixis Investment Managers Japan Co., Ltd. Registration No.: Director-General of the Kanto Local Financial Bureau (kinsho) No.425. Content of Business: The Company conducts investment management business, investment advisory and agency business and Type II Financial Instruments Business as a Financial Instruments Business operator.

In Taiwan: Provided by Natixis Investment Managers Securities Investment Consulting (Taipei) Co., Ltd., a Securities Investment Consulting Enterprise regulated by the Financial Supervisory Commission of the R.O.C. Registered address: 34F., No. 68, Sec. 5, Zhongxiao East Road, Xinyi Dist., Taipei City 11065, Taiwan (R.O.C.), license number 2020 FSC SICE No. 025, Tel. +886 2 8789 2788.

In Singapore: Provided by Natixis Investment Managers Singapore Limited (NIM Singapore) having office at 5 Shenton Way, #22-05/06, UIC Building, Singapore 068808 (Company Registration No. 199801044D) to distributors and qualified investors for information purpose only. NIM Singapore is regulated by the Monetary Authority of Singapore under a Capital Markets Services Licence to conduct fund management activities and is an exempt financial adviser. Mirova Division (Business Name Registration No.: 53431077W) and Ostrum Division (Business Name Registration No.: 53463468X) are part of NIM Singapore and are not separate legal entities. This advertisement or publication has not been reviewed by the Monetary Authority of Singapore.

In Hong Kong: Provided by Natixis Investment Managers Hong Kong Limited to professional investors for information purpose only.

In Australia: Provided by Natixis Investment Managers Australia Pty Limited (ABN 60 088 786 289) (AFSL No. 246830) and is intended for the general information of financial advisers and wholesale clients only.

In New Zealand: This document is intended for the general information of New Zealand wholesale investors only and does not constitute financial advice. This is not a regulated offer for the purposes of the Financial Markets Conduct Act 2013 (FMCA) and is only available to New Zealand investors who have certified that they meet the requirements in the FMCA for w holesale investors. Natixis Investment Managers Australia Pty Limited is not a registered financial service provider in New Zealand.

In Colombia: Provided by Natixis Investment Managers International Oficina de Representación (Colombia) to professional clients for informational purposes only as permitted under Decree 2555 of 2010. Any products, services or investments referred to herein are rendered exclusively outside of Colombia. This material does not constitute a public offering in Colombia and is addressed to less than 100 specifically identified investors.

In Latin America: Provided by Natixis Investment Managers International.

In Uruguay: Provided by Natixis Investment Managers Uruguay S.A., a duly registered investment advisor, authorised and supervised by the Central Bank of Uruguay. Office: San Lucar 1491, Montevideo, Uruguay, CP 11500. The sale or offer of any units of a fund qualifies as a private placement pursuant to section 2 of Uruguayan law 18,627.

In Mexico: Provided by Natixis IM Mexico, S. de R.L. de C.V., which is not a regulated financial entity, securities intermediary, or aninvestment manager in terms of the Mexican Securities Market Law (Ley del Mercado de Valores) and is not registered with the Comisión Nacional Bancaria y de Valores (CNBV) or any other Mexican authority. Any products, services or investments referred to herein that require authorization or license are rendered exclusively outside of Mexico. While shares of certain ETFs may be listed in the Sistema Internacional de Cotizaciones (SIC), such listing does not represent a public offering of securities in Mexico, and therefore the accuracy of this information has not been confirmed by the CNBV. Natixis Investment Managers is an entity organized under the laws of France and is not authorized by or registered with the CNBV or any other Mexican authority. Any reference contained herein to "Investment Managers" is made to Natixis Investment Managers and/or any of its investment management subsidiaries, which are also not authorized by or registered with the CNBV or any other Mexican authority.

In Brazil: Provided to a specific identified investment professional for information purposes only by Natixis Investment Managers International. This communication cannot be distributed other than to the identified addressee. Further, this communication should not be construed as a public offer of any securities or any related financial instruments. Natixis Investment Managers International is a portfolio management company authorized by the Autorité des Marchés Financiers (French Financial Markets Authority - AMF) under no. GP 90-009, and a public limited company (société anonyme) registered in the Paris Trade and Companies Register under no. 329 450 738. Registered office: 43 avenue Pierre Mendès France, 75013 Paris.

The above referenced entities are business development units of Natixis Investment Managers, the holding company of a diverse line-up of specialised investment management and distribution entities worldwide. The investment management subsidiaries of Natixis Investment Managers conduct any regulated activities only in and from the jurisdictions in which they are licensed or authorized. Their services and the products they manage are not available to all investors in all jurisdictions. It is the responsibility of each investment service provider to ensure that the offering or sale of fund shares or third party investment services to its clients complies with the relevant national law.

The provision of this material and/or reference to specific securities, sectors, or markets within this material does not constitute investment advice, or a recommendation or an offer to buy or to sell any security, or an offer of any regulated financial activity. Investors should consider the investment objectives, risks and expenses of any investment carefully before investing. The analyses, opinions, and certain of the investment themes and processes referenced herein represent the views of the portfolio manager(s) as of the date indicated. These, as well as the portfolio holdings and characteristics shown, are subject to change. There can be no assurance that developments will transpire as may be forecasted in this material. The analyses and opinions expressed by external third parties are independent and does not necessarily reflect those of Natixis Investment Managers. Past performance information presented is not indicative of future performance.

Although Natixis Investment Managers believes the information provided in this material to be reliable, including that from third party sources, it does not guarantee the accuracy, adequacy, or completeness of such information. This material may not be distributed, published, or reproduced, in whole or in part.

All amounts shown are expressed in USD unless otherwise indicated.