

CHART TALK | 4Q 2020

Opportunities in municipal bonds and global fixed income

The what, why and how of the municipal and global fixed income markets



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Fixed income market

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The municipal bond market themes/predictions for 2021

- 2021 will be a transition year as we seek an end to the coronavirus outbreak. The path to normalization will be long but ultimately successful.
- The Federal Reserve and U.S. Treasury will work together to support the markets, benefiting municipals.
- Monetary stimulus and low rates should boost economic activity as conditions stabilize.
- Inflation will remain low as labor productivity increases.

- Treasury yields will increase moderately, but the effect on municipals will be cushioned by yield spreads and the scarcity of tax-exempt bonds in light of a growing proportion of taxable municipals.
- The importance of the underlying municipal projects typically stabilizes the underlying credit for the investor.
- Downgrades and defaults will be lower than expected, and clarity on credit health will lift investor confidence.

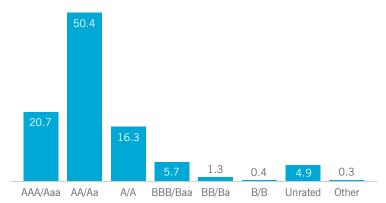
Certain statements may be deemed forward-looking statements. Please note that any such statements are not guarantees or intended to constitute a prediction of any future performance; actual results or developments may differ materially from those projected.

The market is dominated by high quality and essential service sectors

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

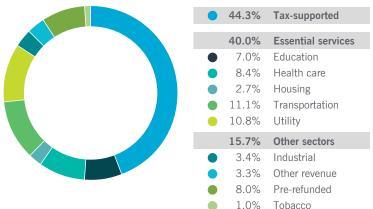
Municipal market overview

Municipal market credit quality breakdown (%)



Data source: Standard & Poor's for the S&P Municipal Bond Index as of 31 Dec 2020. Ratings shown are the highest rating given by one of the following national rating agencies: Standard & Poor's (S&P), Moody's Investors Service, Inc. (Moody's) or Fitch, Inc. (Fitch). Credit ratings are subject to change. Aaa, Aa, A and Baa are investment grade ratings; Ba, B and Caa/Ca/C are below investment grade ratings. Certain bonds backed by U.S. government or agency securities are regarded as having an implied rating equal to the rating of such securities. Holdings designated N/R are not rated by these national rating agencies. High yield or lower-rated bonds and municipal bonds carry greater credit risk and are subject to greater price volatility. Totals may not add up to 100% due to rounding.

Municipal market sector breakdown





Municipal bonds generally feature high credit qualities and are backed by tax revenues or linked to essential services

Municipals have exhibited lower volatility ...

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Municipal market overview



Data source: Morningstar, period ending 31 Dec 2020. **Past performance is no guarantee of future results. Representative Indexes: Treasuries:** Bloomberg Barclays U.S. 10-20 Year Treasury Index and the Bloomberg Barclays U.S. 20+ Year Treasury Index; **Global Bonds:** Bloomberg Barclays Global Aggregate Unhedged Index; **High Yield Corporates:** Bloomberg Barclays High Yield Corporate Index; **International Equity:** MSCI EAFE Index; **Emerging Markets:** MSCI Emerging Markets Index; **U.S. Equity:** S&P 500 Index; **High Yield Municipals:** S&P Municipal High Yield Index and **Investment Grade Municipals:** Bloomberg Barclays Municipal Bond Index.

... while producing strong risk-adjusted returns

THE WHAT THE WHY-RATES THE WHY-CREDIT WHY NOW THE HOW

Municipal market overview



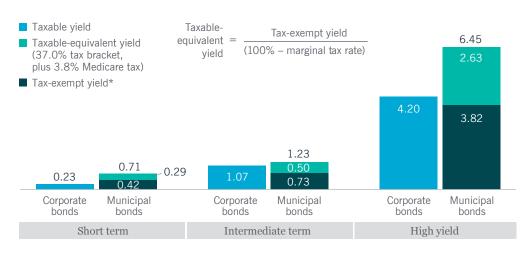
Data source: Morningstar, period ending 31 Dec 2020. Past performance is no guarantee of future results. Representative Indexes: Treasuries: Bloomberg Barclays U.S. 10-20 Year Treasury Index and the Bloomberg Barclays U.S. 20+ Year Treasury Index; Global Bonds: Bloomberg Barclays Global Aggregate Unhedged Index; High Yield Corporates: Bloomberg Barclays High Yield Corporate Index; International Equity: MSCI EAFE Index; Emerging Markets: MSCI Emerging Markets Index; U.S. Equity: S&P 500 Index; High Yield Municipals: S&P Municipal High Yield Index and Investment Grade Municipals: Bloomberg Barclays Municipal Bond Index.

Municipals are attractive on an after-tax basis

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Municipal market overview

Taxable and taxable-equivalent yields (%)





The tax advantages of municipal bonds can enable investors to keep more of what they earn

The taxable-equivalent yield is based on the highest individual marginal federal tax rate of 37.0%, plus the 3.8% Medicare tax on investment income (the Net Investment Income Tax). Individual tax rates may vary. *Some income may be subject to state and local taxes and the federal alternative minimum tax.

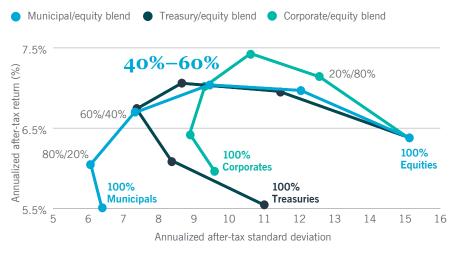
Data source: Bloomberg L.P., 31 Dec 2020. Past performance is no guarantee of future results. Yields are yield to worst. Yield to worst is the lowest potential yield that can be received on a bond without the issuer defaulting. Taxable-equivalent yield is the yield a taxable investment needs to possess (before taxes) for its yield to be equal to that of a tax-free municipal investment. The yields shown are based on the highest individual marginal federal tax rate of 37%, plus the 3.8% Medicare tax on investment income. Individual tax rates may vary. They do not take into account the effects of the federal alternative minimum tax (AMT) or capital gains taxes. Representative Indexes: Short Term Corporate Bonds: Bloomberg Barclays U.S. Government/Credit Intermediate Term Corporate Bonds: Bloomberg Barclays U.S. Government/Credit Intermediate Index; Intermediate Index; Intermediate Index; Intermediate High Yield 2% Issuer Capped Index: High Yield Municipal Bonds: Bloomberg Barclays High Yield Municipal Bonds: Bloomberg Barclays High Yield Municipal Bonds: Bloomberg Barclays Municipal Bonds: Bloomberg Barclays High Yield Municipal Bonds: Bl

Municipal bonds may improve portfolio returns, while reducing risk

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Municipal market overview

Risk/return characteristics of diversified portfolios



Annualized after-tax returns for hypothetical blended portfolios

Treasury/ Equity blend	Corporate/ Equity blend	Equity allocation
5.54%	5.99%	0%
6.10%	6.43%	20%
6.74%	7.02%	40%
7.06%	7.43%	60%
6.96%	7.14%	80%
6.39%	6.39%	100%
	Equity blend 5.54% 6.10% 6.74% 7.06% 6.96%	Equity blend Equity blend 5.54% 5.99% 6.10% 6.43% 6.74% 7.02% 7.06% 7.43% 6.96% 7.14%

Data source: Bloomberg L.P., and Nuveen, 1 Jan 2001 – 31 Dec 2020. **Past performance is no guarantee of future results. Municipal Bonds:** Bloomberg Barclays Long Municipal Index | **Treasury Bonds:** Bloomberg Barclays Long Treasury Index | **Corporate Bonds:** Bloomberg Barclays Long Credit Index | **Equities:** S&P 500 Index.

These conclusions are derived from the following portfolio assumptions: All investment income generated by the portfolio is reinvested annually, along with the after-tax proceeds of an arbitrarily assumed 20% annualized turnover rate. The allocation between the two assets was allowed to roam within a 1% band around its target before rebalancing. No provision was made for investment fees or commissions. Investment income was taxed at the historically appropriate rate for an individual with \$100,000 in taxable income in year 2020 dollars; net capital gains taxes, if any, were deducted at the rate appropriate for the period. At the end of 2020, the portfolios were fully liquidated to recognize the existing tax liability. Different economic periods and different assumptions, such as tax rate, will have different results.

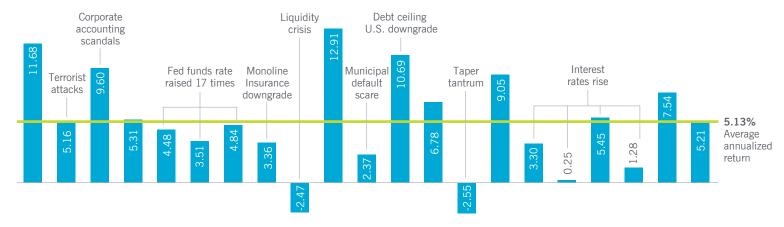
This study is based on historical data gathered from sources we consider to be reliable and consistent. The methodology applied and results produced by this study indicate past investment performance of market indexes over the 1 Jan 2001 – 31 Dec 2020 time period exclusively and in no way should be considered representative of the past performance of any investment product or predictive of future investment expectations and performance for the municipal market or investment products. All investments carry a certain degree of risk, including possible loss of principal, and there is no assurance that an investment will provide positive performance over any period of time. Diversification does not insure against market loss. Investors should consult with their professional advisors before making any tax or investment decisions.

Municipals have been resilient during uncertain environments

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Municipal market overview

Bloomberg Barclays Municipal Bond Index returns (%)



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

Data source: Bloomberg, L.P., 31 Dec 2020. **Past performance is no guarantee of future results.** All investments carry a certain degree of risk, including possible loss of principal, and there is no assurance that an investment will provide positive performance over any period of time. Index returns include reinvestment of income and do not reflect investment advisory and other fees that would reduce performance in an actual client account.



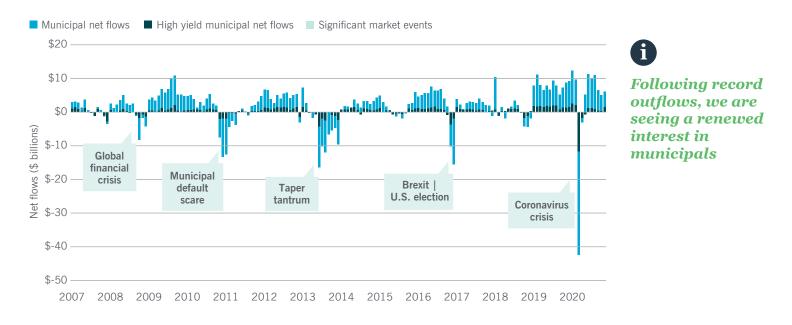
Volatility in the municipal market has increased since 2007

Municipal fund flows are recovering

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Municipal market overview

Municipal and high yield mutual fund net flows

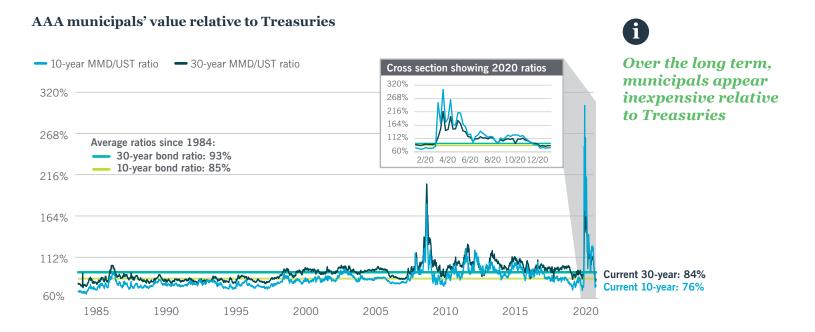


Source: Morningstar Direct, 1 Jan 2007 – 30 Nov 2020. Industry categories: **Municipals** represent the total of all municipal bond open-end funds, including high yield; **High yield municipals** represent all high yield municipal bond open-end funds. Shading represents significant market events.

Municipal-to-Treasury ratios have decreased after a sharp spike in March

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Interest rate environment



Data source: Refinitiv MMD for fair value Municipal 10- and 30-Year Index AAA General Obligation bonds; Bloomberg for 10- and 30-year U.S. Treasury yields, 1 Jan 1984 – 31 Dec 2020. **Past performance is no guarantee of future results**. Represents the relative value of municipal yields to Treasury yields. All investments carry a certain degree of risk, including possible loss of principal, and there is no assurance that an investment will provide positive performance over any period of time. Individual tax rates may vary. Some income may be subject to the federal alternative minimum tax (AMT) or capital gains taxes.

Treasury yields have increased while AAA municipals have remained mostly stable

THE WHAT

THE WHY-RATES

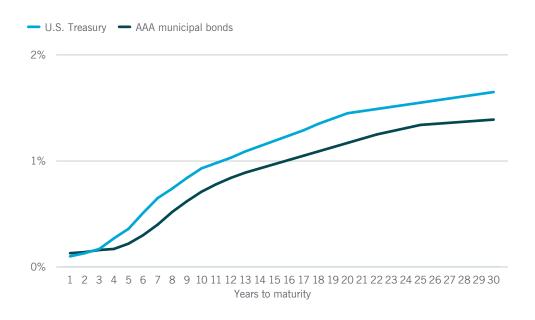
THE WHY—CREDIT

WHYNOW

THE HOW

Interest rate environment

U.S. Treasuries vs. AAA-rated municipal bonds





Historically, 10-year AAA municipals yield 85% and 30-year AAA municipals yield 93% of Treasuries. This relationship is currently mis-priced, providing opportunities for investors

Data source: Refinitiv MMD, 31 Dec 2020. Past performance is no guarantee of future results.

Staying the course in municipals has benefited investors

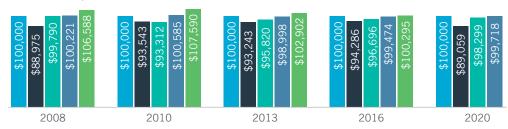
THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Interest rate environment

Value of a hypothetical \$100,000 portfolio

■ Initial investment ■ After yield spike ■ 3 months ■ 6 months ■ 12 months

Broad municipal market



High yield municipal market





When municipal yields increased by at least 100 basis points in less than one year, municipal bond prices typically recovered within 12 months

Data source: Bloomberg L.P. Based on returns of the Bloomberg Barclays Municipal Bond Index and the Bloomberg Barclays High Yield Municipal Bond Index. Broad municipal market time periods: 2008: 12 Sep 2008 - 15 Oct 2009; **2010**: 12 Oct 2010 - 13 Jan 2012; **2013**: 01 May 2013 - 05 Sep 2014; **2016**: 06 Jul 2016 - 01 Dec 2017; **2020**: 09 Mar 2020 – 23 Sep 2020. High yield municipal market time periods: **2008**: 11 Sep 2008 – 19 Dec 2008; **2010**: 25 Oct 2010 – 14 Jan 2011; **2013**: 22 May 2013 – 09 Sep 2013; **2016**: 09 Sep 2016 – 01 Dec 2016; **2020:** 28 Feb 2020 — 20 Mar 2020. Time periods represent investment grade and high yield market highs/lows based on the respective index for each rising rate period. For the 2020 period, the 12 month data is not vet available. Different benchmarks and economic periods will produce different results. All investments carry a certain degree of risk, including possible loss of principal, and there is no assurance that an investment will provide positive performance over any period of time. High yield or lower-rated bonds and municipal bonds carry greater credit risk, and are subject to greater price volatility. Index returns include reinvestment of income and do not reflect investment advisory and/or other fees that would reduce performance in an actual client account. Hypothetical performance is no guarantee of future results.

Credit selection remains critically important and opportunities remain issuer-specific

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Credit health

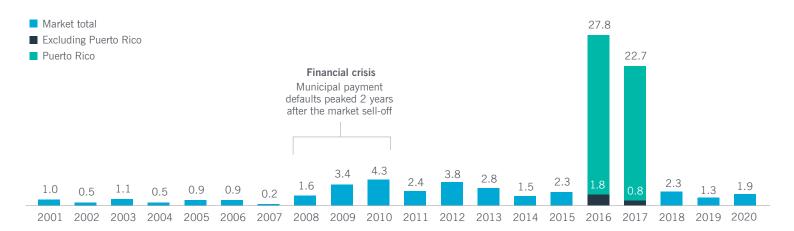
Coronavirus: potential impact on municipal bond sectors High impact Temporary impact Mixed impact Low impact CCRC / Senior living Health care Airports Charter schools Industrial **Airlines** General obligations **Ports** Dedicated tax bonds Public power Higher education Land secured Essential services Toll roads Single-family housing Mass transit

Defaults remain in line with historical trends

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Credit health

Municipal payment defaults (\$ billions)





Nursing homes and industrial development bonds accounted for 68% of defaults in 2020

Data source: Bank of America/Merrill Lynch Research, 30 Nov 2020. Data represents defaults on the entire universe of bonds, both rated and unrated, and includes Puerto Rico defaults.

Municipal bonds have fared better than similarly rated corporates

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Credit health

Moody's average cumulative default rates, 1970 – 2019 Municipals vs. corporates

	5-	year histo	ry	10-year history						
Rating	Corporate	Municipal	Difference	Corporate	Municipal	Difference				
Aaa	0.08%	0.00%	0.08%	0.36%	0.00%	0.36%				
Aa	0.29%	0.01%	0.28%	0.79%	0.02%	0.77%				
A	0.73%	0.03%	0.70%	2.11%	0.10%	2.01%				
Baa	1.47%	0.47%	1.00%	3.58%	1.10%	2.48%				
Ва	7.77%	1.98%	5.79%	15.40%	3.57%	11.83%				
В	20.33%	12.20%	8.13%	33.70%	17.49%	16.21%				
Caa-C	33.56%	20.26%	13.30%	47.89%	25.07%	22.82%				



A-rated municipal bonds have historically had default rates close to those of Aaa corporate bonds

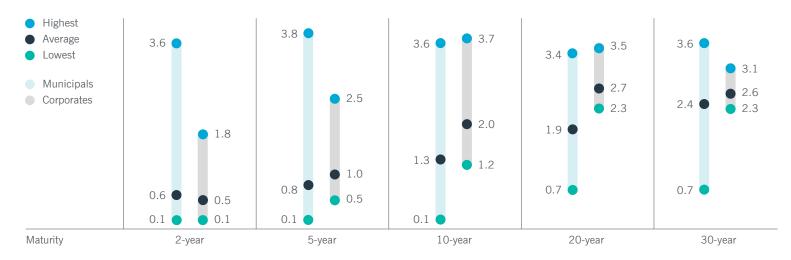
Data source: Special Comment: U.S. Municipal Bond Defaults and Recoveries, 1970–2019, Moody's Investors Service. **Past performance is no guarantee of future results.** The universe represents 16,000 bonds rated by Moody's in this study.

Wide municipal yield spreads underline the importance of credit research

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Credit health

Range of yields for A-rated municipal and corporate bonds (%)



Data source: S&P/Investortools and ICE BofA Merrill Lynch, 31 Dec 2020. Past performance is no guarantee of future results. Universes are the A-rated bonds in the S&P Municipal Bond Index and the ICE BofA Merrill Lynch U.S. Corporate, Government & Mortgage Index. Any reference to municipal credit ratings refers to the highest rating given by one of the following national rating agencies: S&P, Moody's or Fitch. Credit ratings are subject to change. AAA, AA, A and BBB are investment grade ratings; BB, B, CCC, CC, C and D are below investment grade ratings. Dispersion describes the size of the range of values expected for a particular variable. Yield refers to the interest or dividends received from a security and is usually expressed annually as a percentage based on the investment's cost, its current market value or its face value.



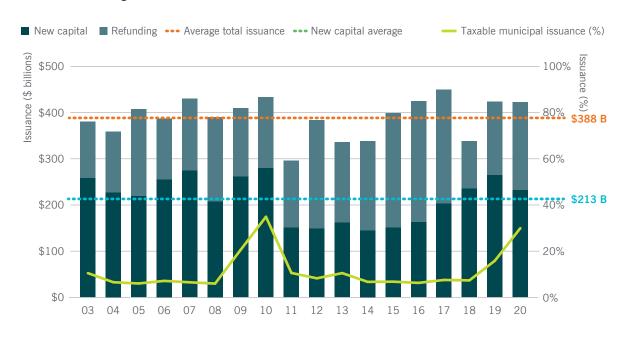
Wide yield dispersions of similarly rated bonds make active and ongoing credit research critical to making risk/reward decisions

Municipal supply remained strong in 2020

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

State of the market

Overall municipal issuance





Net supply of tax-exempt municipals has been decreasing due to increase in taxable municipal bond issuance

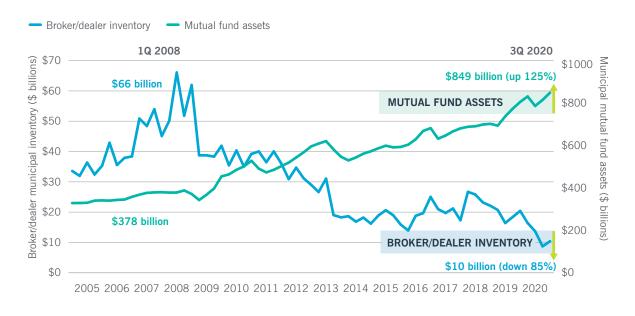
Data source: Securities Industry and Financial Markets Association (SIFMA.org), U.S. Bond Market Issuance and Outstanding, 31 Dec 2020.

Building individual bond portfolios has become more difficult

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

State of the market

Municipal assets vs. available inventory





Professional managers can help in an environment of lower inventory

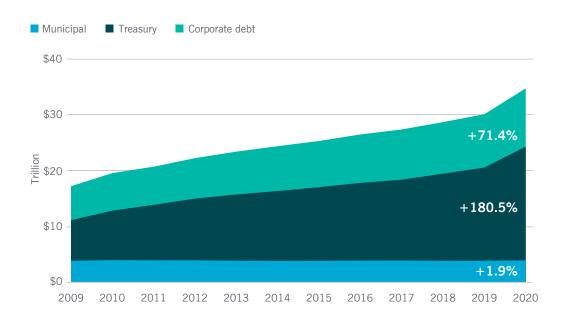
Data source: Issuance data from Bond Buyer as of 31 Dec 2020. Assets and inventory data from Federal Reserve Flow of Funds ending 10 Dec 2020.

The relative size of the municipal bond market is shrinking

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

State of the market

U.S. Treasury and corporate debt outstanding has increased





At the same time, the amount of outstanding municipal bonds has declined

Source: SIFMA, 30 Nov 2020

With the \$10,000 cap on State and Local Taxes (SALT), deductions apply to more than just the wealthiest taxpayers

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

State of the market

2015 total SALT deductions by category, for those taking deductions





With the cap on SALT deductions, we think municipal bonds will continue to appeal to investors in all tax brackets in higher-tax states

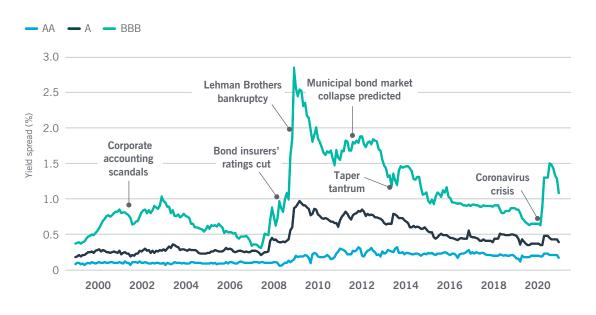
Data source: IRS tax data for 2015 returns.

Yield spreads have remained wide since the credit crisis

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

State of the market

Credit spreads vs. AAA-rated municipal bonds





Opportunities exist for those who know how to assess risk in lower-rated segments of the market

Data source: S&P/Investortools from 1 Jan 1999 – 31 Dec 2020. **Past performance is no guarantee of future results**. Chart shows yield difference between the AAA-rated Municipal Bond Yield Curve and the AA-, A- and BBB-rated Municipal Bond Yield Curves.

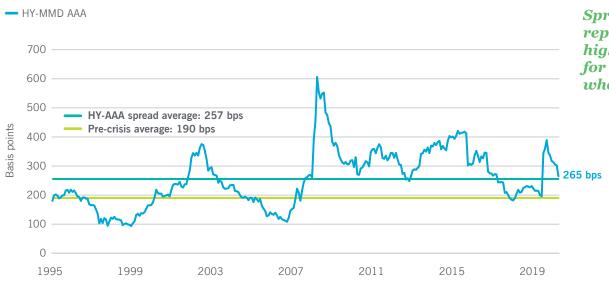
High yield credit spreads are tightening

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

State of the market

Bloomberg Barclays High Yield Municipal Index vs. AAA yields





Spreads may represent value in high yield municipals for those who know where to look

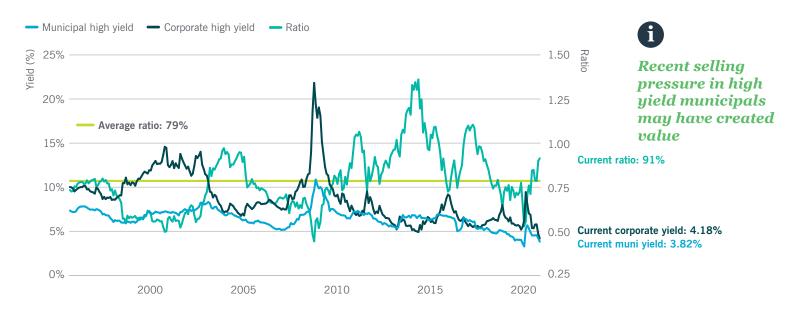
Data sources: Barclays, Refinitiv MMD, 31 Oct 1995 – 31 Dec 2020. Chart shows data to the earliest period available. Pre-crisis period is 31 Oct 1995 – 31 Dec 2007. Past performance is no guarantee of future results. High yield municipal yields represented by the Bloomberg Barclays High Yield Municipal Index; AAA municipal yields represented by Municipal Market Data (MMD) yields for AAA rated 20-year bonds. High yield or lower-rated bonds and municipal bonds carry greater credit risk, and are subject to greater price volatility. Ratings shown are from S&P and are subject to change. AAA, AA, A and BBB are investment grade ratings; BB, B, CCC/CC/C and D are below-investment grade ratings. Different benchmarks, economic periods, methodologies and market conditions will produce different results. Pre-crisis period is 31 Oct 1995 – 31 Dec 2007.

Ratio to high yield corporates is elevated

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

State of the market

Bloomberg Barclays High Yield Municipal vs. Bloomberg Barclays High Yield Corporate



Data source: Bloomberg L.P., 31 Oct 1995 – 31 Dec 2020. Past performance is no guarantee of future results. Representative Indexes: High Yield Municipal: Bloomberg Barclays High Yield Municipal Index; High Yield Corporate: Bloomberg Barclays U.S. High Yield Corporate Index. High yield or lower-rated bonds and municipal bonds carry greater credit risk, and are subject to greater price volatility. Indices are unmanaged and unavailable for direct investment.

Municipal bond investing with Nuveen

THE WHAT THE WHY—RATES THE WHY—CREDIT WHY NOW THE HOW

Nuveen leadership

Nuveen believes five key differentiators are important to creating portfolio growth.

Credit research

The experienced research team evaluates municipal bonds and sectors, seeking to find value in bonds that the general public may have overlooked.

Institutional access

Nuveen navigates the inefficient municipal bond market through established relationships with more than 100 national and regional dealers.

Institutional trade execution*

A large presence in the market provides greater access to inventory to find bonds in appropriate sizes and at institutional prices.

Tax-aware investing

The ability to trade at institutional prices allows the team to efficiently capture tax losses and use them to offset gains.

Active portfolio oversight

By actively trading bonds, the team seeks to sell appreciated bonds, capture gains and purchase bonds that have the potential to enhance overall portfolio returns.

^{*}Institutional trade execution applies primarily to municipal bond trading as part of ongoing account management and generally does not include sales of legacy securities contributed to new or existing accounts or in connection with termination and liquidation instructions. Nuveen Asset Management, LLC ("NAM") seeks to expeditiously and efficiently effect sales of legacy securities contributed to new or existing accounts or in connection with termination and liquidation instructions, generally by directing the execution of sale to the relevant broker-dealer/custodian designated by the client's managed account program, subject to program limitations. Primarily due to the time constraints and lot sizes applicable to these transactions, and because the full range of trading techniques is generally not available (including aggregation), the prices received in these transactions may be less favorable than the prices that could be attained for sales of securities selected by NAM as part of ongoing management. Clients always reserve the right to fund accounts with cash as opposed to legacy securities and to keep any securities in their accounts upon termination of services.



The evolving fixed income market environment Key 2021 themes

Economic environment

- The U.S. economy continues to recover, and growth is expected to build through the year.
- Global growth is strong, but uneven and led by China.
- Central banks remain extraordinarily accommodative.
- Fiscal policy supports growth.

Portfolio positioning

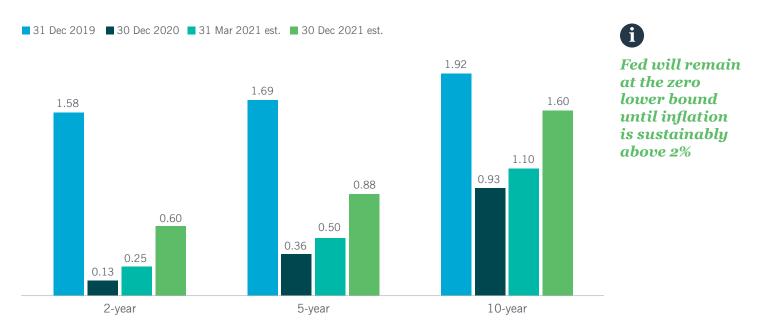
- We prefer diversified overweight to spread sectors with a focus on mid-quality credit assets.
- Given somewhat stretched valuations and a still-uncertain pandemic outlook, credit selection will be key.
- We advocate deep research and favor idiosyncratic stories with positive long-term growth prospects.
- Declining default forecasts and improving fundamentals should benefit credit sectors.
- Income should drive performance as valuations are unlikely to improve significantly.

Interest rates will rise, but remain low

THE WHAT THE WHY—RATES THE WHY—INCOME THE WHY—CREDIT WHY NOW—SECTOR THE HOW

Interest rate environment

Treasury yields (%)



Estimates as of 31 Dec 2020. Sources: www.treasury.gov, Nuveen.

Low rate environment persists

THE WHAT

THE WHY—RATES

THE WHY—INCOME

THE WHY—CREDIT

WHY NOW—SECTOR

THE HOW

Interest rate environment

We believe these factors will continue to keep rates low

FUNDAMEN	NTAL FACTORS	TECHNICAL FACTORS							
Economic growth	The U.S. economy continues to recover, and growth should build through the year	Global capital	U.S. Treasury market is deep and liquid, and remains a safe haven						
	Global growth is strong, but uneven and led by China The property of the strong designs and sixty and strong designs are still	flows	 Increased government spending could pressure rates higher over longer term 						
	• The pace of vaccine delivery and virus spread are still the most critical factors for growth trajectory		pressure rates inglier over longer term						
Inflation	 Remains contained and expectations are rising modestly Inflation will likely spike due to base effect in March 	Investor positioning	Low yields and expected returns on high- quality assets drive investors out the risk spectrum						
	and April		 High cash balances and ample liquidity 						
	 Despite higher risks, policymakers will not be forced to tighten prematurely 		support fixed income demand despite paltry yields						
Policy	 Massively accommodative central bank policy anchors low rates Global fiscal policy designed to minimize economic damage 	Global risks	Uncertainty persists around vaccine delivery, virus containment, pace of recovery and policy response, maintaining demand for fixed income assets						

Rising index risks favor active management

THE WHAT

THE WHY—RATES

THE WHY-INCOME

THE WHY-CREDIT

WHY NOW-SECTOR

THE HOW

Interest rate environment

Treasuries now represent a larger portion of the Aggregate Index ...



a

Actively managed portfolios can manage interest rate risk by varying sector composition

... extending Aggregate Index duration over time



Source: Bloomberg Barclays. As of 31 Dec 2020.

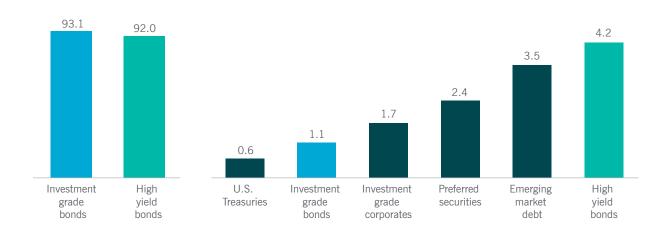
Aggregate Index is represented by the Bloomberg Barclays Aggregate Index. Duration is expressed as a number of years and represents a measure of the sensitivity of the price — the value of principal — of a fixed-income investment to a change in interest rates.

Income remains the primary contributor to total return

THE WHAT THE WHY—RATES THE WHY—INCOME THE WHY—CREDIT WHY NOW—SECTOR THE HOW

Income generation

Income as a portion Yields (%) of total return (%)





As of 31 Dec 2020.

Source: Bloomberg Barclays. Chart shows the percent of annualized total return derived from coupon return (as opposed to price appreciation) since index inception. Investment Grade Bonds are represented by the Bloomberg Barclays Aggregate Bond Index, which has an inception date of 1 Jan 1976; returns from 31 Jan 1976 – 31 Dec 2020. High Yield Bonds are represented by the Bloomberg Barclays U.S. High Yield 2% Issuer Capped Index, which has an inception date of 1 Jan 1993; returns from 31 Jan 1993 – 31 Dec 2020. U.S. Treasuries are represented by the Bloomberg Barclays U.S. Treasury Index. The index return presented is for illustration purposes only and does not represent or predict performance of any Nuveen product. **Past performance is no guarantee of future results.**

The need for income diversifiers

THE WHAT

THE WHY—RATES

THE WHY-INCOME

THE WHY-CREDIT

WHY NOW—SECTOR

THE HOW

Income generation



No single fixed income asset class leads in all markets

2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
Investment grade municipals 1	0.70	High yield municipals	18.14	High yield corporates		Preferred securities	15.44	Preferred securities	7.58	High yield corporates	17.13	Preferred securities	10.58	High yield municipals	4.76	Preferred securities	17.71	Investment gra	9.89
US Treasuries		Emerging markets debt	17.44	Senior loans	6.15	High yield municipals	13.84	Investment grad municipals		Emerging markets debt	10.15	Emerging markets debt	10.26	Investment grad municipals	de 1.28	Emerging markets debt	15.04	US Treasuries	8.00
High yield municipals		High yield corporates	15.78	Investment gra corporates	de -1.53	Investment grad municipals	le 9.05	High yield municipals	1.81	Senior loans	9.88	High yield municipals	9.69	Senior loans	1.14	Investment gra corporates	de 14.54	Broad bond market	7.51
Investment grade corporates		Preferred securities	13.59	Broad bond market	-2.02	Investment grad corporates	le 7.46	Emerging markets debt	1.18	Investment gra corporates		High yield corporates	7.50	US Treasuries	0.86	High yield corporates	14.32	Preferred securities	6.95
Broad bond market		Investment grad corporates	de 9.82	Investment gra municipals	de -2.55	Emerging markets debt	7.43	US Treasuries	0.84	High yield municipals	2.99	Investment gra corporates	de 6.42	Broad bond market	0.01	High yield municipals	10.68	Emerging markets debt	5.26
Emerging markets debt	7.35	Senior loans	9.43	US Treasuries	-2.75	Broad bond market	5.97	Broad bond market	0.55	Broad bond market	2.65	Investment gra municipals		High yield corporates	-2.08	Broad bond market	8.72	Investment gramunicipal	5.21
High yield corporates	4.96	Investment grad municipals		Preferred securities	-3.65	US Treasuries	5.05	Senior loans	-0.38	Preferred securities	2.32	Senior Ioans	4.25	Investment gra- corporates	de -2.51	Senior loans	8.17	High yield municipal	4.89
Preferred securities		Broad bond market	4.21	Emerging markets debt		High yield corporates	2.46	Investment grad corporates	le -0.68	US Treasuries	1.04	Broad bond market	3.54	Emerging markets debt	-4.26	Investment gra municipals		High yield corporates	4.68
Senior loans	1.82	US Treasuries	1.99	High yield municipals	-5.51	Senior loans	2.06	High yield corporates	-4.43	Investment gra municipals	de 0.25	US Treasuries		Preferred securities	-4.34	US Treasuries	6.86	Senior loans	2.78

Chart does not represent the past performance or yields of any Nuveen fund. For fund performance visit nuveen.com. Data source: Morningstar Direct, 1 Jan 2011 — 31 Dec 2020. Past performance does not guarantee future results. Performance of all cited indexes is calculated on a total return basis and includes income reinvestment but does not reflect taxes. Diversification does not assure a profit or protect against loss. Broad Bond Market: Bloomberg Barclays U.S. Aggregate Bond Index; High Yield Corporate: Bloomberg Barclays High Yield Municipal: Bloomberg Barclays U.S. Treasuries Index; Emerging Markets Debt: JPMorgan Emerging Markets Bond Index (EMBI) Global: Different benchmarks, economic periods, methodologies and market conditions will produce different results. See Endontes for important disclosures regarding asset-class-related risks and definitions of each representative asset class.

Traditional core sectors behave like bonds

THE WHAT

THE WHY—RATES

THE WHY-INCOME

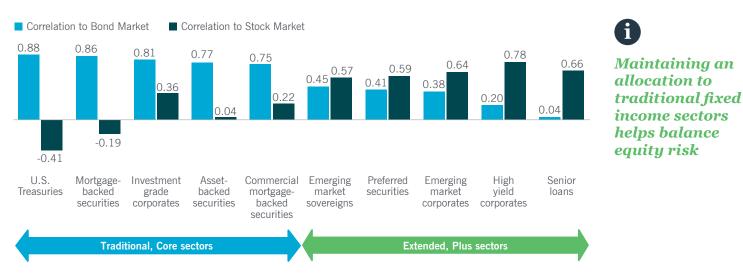
THE WHY-CREDIT

WHY NOW-SECTOR

THE HOW

Income generation

Correlation to bond and stock market of selected sectors



Sources: Bloomberg Barclays, JPMorgan, Morningstar Direct.

Yield to worst as of 31 Dec 2020. Bond market represented by Bloomberg Barclays U.S. Treasury Index; MBS represented by Bloomberg Barclays U.S. Mortgage-Backed Securities (MBS) Index; Investment Grade Corporates represented by Bloomberg Barclays U.S. Corporate Investment Grade Index; ABS represented by Bloomberg Barclays Asset-backed Securities Index; CMBS represented by Bloomberg Barclays Commercial Mortgage-backed Securities Index; Emerging market sovereigns represented by JPMorgan EMBI Global Diversified Index; Emerging market corporates represented by JPMorgan CEMBI Diversified Index; Preferred Securities represented by ICE BofAML U.S. Preferred Stock Fixed Rate Index, Bank loans represented by S&P/LSTA Leveraged Loan Index; High Yield represented by Bloomberg Barclays U.S. Corporate High Yield 2% Issuer Capped Index. Past performance is no guarantee of future results. Correlation is a statistical measure of how two securities move in relation to each other.

Spreads narrowed significantly over the course of 2020

THE WHAT THE WHY—RATES THE WHY—INCOME THE WHY—CREDIT WHY NOW—SECTOR THE HOW

Income generation

Most spreads are below average levels, but we believe Fixed income spread analysis improving fundamentals will support credit sectors Highest 1964 1940 Current 1644 1580 Lowest Median 1087 1017 618 494 452 465 311 280 258 192 135 137 **96** 110 81 41 - 41 56 -88 -13 Broad Mortgage-Commercial Asset-Investment Preferred **Emerging** Senior High U.S. bond mortgage-backed backed markets backed grade securities loans yield market securities securities securities debt corporates corporates

Spreads are measured in basis points. Basis point = One one-hundredth of one percentage point, or 0.01%. For example, 25 basis points equals 0.25%. Sources: Bloomberg Barclays, ICE BofA Merrill Lynch and Morningstar for the 15 years ending 31 Dec 2020. Broad U.S. bond market represented by Bloomberg Barclays U.S. Aggregate Bond Index; Mortgage-backed securities represented by Bloomberg Barclays U.S. CMBS Investment Grade Index; Asset-backed securities represented by the Bloomberg Barclays Asset Backed Securities Index, Investment Grade Corporates represented by Bloomberg Barclays U.S. Corporate Investment Grade Index; Preferred Securities represented by ICE BofA Merrill Lynch Preferred Stock Fixed Rate Index; Emerging Markets represented by Bloomberg Barclays Emerging Market USD Aggregate Index; High Yield Corporate represented by Bloomberg Barclays Corporate High Yield 2% Issuer Capped Index; Senior Loans represented by the S&P/LSTA Leveraged Loan Index. Different benchmarks, economic periods, methodologies and market conditions will produce different results. See Endnotes for important disclosures regarding asset class related risks and definitions of each representative asset class.

44

6 Jan 09

11 Feb 20

21 Nov 08

30 Jan 18

93

3 Dec 08

22 Feb 07

17

9 Mar 09

6 Dec 17

304

27 Oct 08

23 May 07

436

19 Dec 08

31 Mar 06

39

3 Dec 08

27 Jul 10

Spread on 31 Dec 19

Max Spread Date

Min Spread Date

39

3 Dec 08

1 Feb 18

338

16 Dec 08

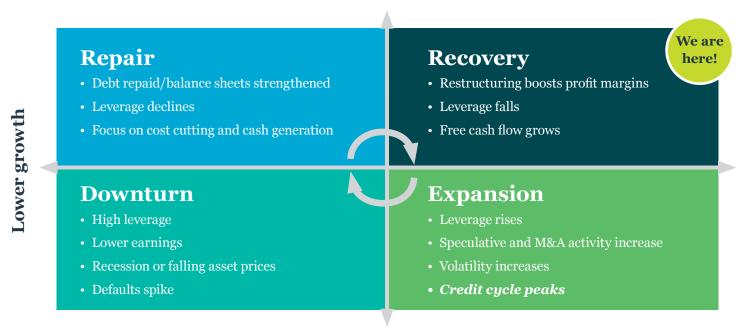
29 May 07

Credit cycle is in the recovery stage

THE WHAT THE WHY-RATES THE WHY-INCOME THE WHY-CREDIT WHY NOW-SECTOR THE HOW

Credit health

Falling leverage



Rising leverage

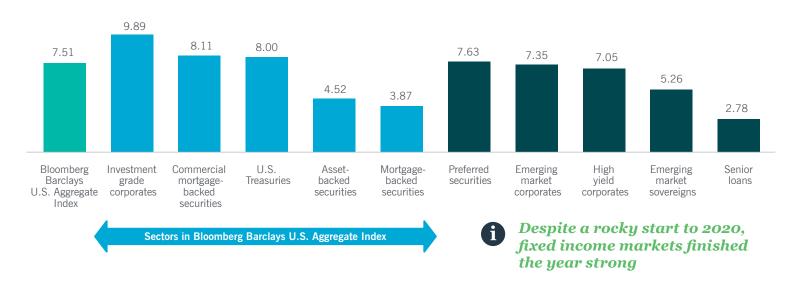
Higher growth

All major sectors experienced solid, positive returns in 2020

THE WHAT THE WHY—RATES THE WHY—INCOME THE WHY—CREDIT WHY NOW—SECTOR THE HOW

Credit health

Year-to-date total return by fixed income sector (%)



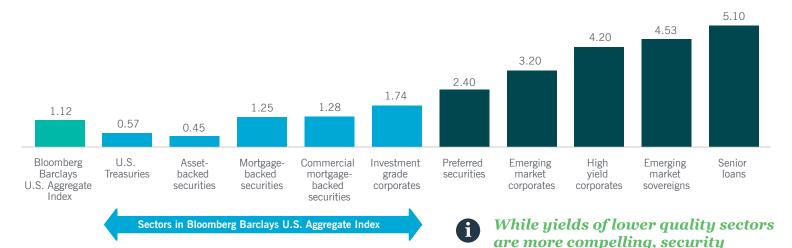
Source: Morningstar Direct. As of 31 Dec 2020. Representative Indices: U.S. Treasuries: Bloomberg Barclays U.S. Treasury Index; MBS: Bloomberg Barclays U.S. Mortgage-Backed Securities Index; CMBS: Bloomberg Barclays U.S. Comporates: Bloomberg Barclays U.S. Corporate Investment Grade Index; Emerging market corporates: JPMorgan CEMBI Diversified Index; Preferred securities: ICE BofA U.S. All Capital Securities Index; Senior loans: Credit Suisse Leveraged Loan Index; High yield corporates: Bloomberg Barclays U.S. Corporate High Yield 2% Issuer Capped Index; Emerging market sovereigns: JPMorgan EMBI Global Diversified Index. Past performance is no guarantee of future results. Indices are unmanaged and unavailable for direct investment.

Credit sector yields near all-time lows

THE WHAT THE WHY-RATES THE WHY-INCOME THE WHY-CREDIT WHY NOW-SECTOR THE HOW

Credit health

Yield-to-worst by fixed income sector (%)



Source: Bloomberg L.P.; Credit Suisse; JPMorgan. As of 31 Dec 2020. Representative Indexes: U.S. Treasuries: Bloomberg Barclays U.S. Treasury Index; MBS: Bloomberg Barclays U.S. Mortgage-Backed Securities Index; CMBS: Bloomberg Barclays Commercial Mortgage-Backed Securities Index; ASS: Bloomberg Barclays Asset-Backed Securities Index; Investment Grade Corporates: Bloomberg Barclays U.S. Corporate Investment Grade Index; Emerging market corporates: JPMorgan CEMBI Diversified Index; Preferred securities: ICE BofA U.S. All Capital Securities Index; Senior loans: Credit Suisse Leveraged Loan Index; High yield corporates: Bloomberg Barclays U.S. Corporate High Yield 2% Issuer Capped Index; Emerging market sovereigns: JPMorgan EMBI Global Diversified Index. Past performance is no guarantee of future results. Indices are unmanaged and unavailable for direct investment

selection is paramount, making active management important

Investment grade corporates still offer value

THE WHAT THE WHY—RATES THE WHY—INCOME THE WHY-CREDIT WHY NOW-SECTOR THE HOW

> Investment arade corporates

> > Spreads may widen

Spread levels have narrowed to below historical averages

Bloomberg Barclays U.S. Aggregate Corporate Option-adjusted spread (OAS)



Source: Bloomberg, As of 31 Dec 2020. Representative Indexes: U.S. Treasuries: Bloomberg Barclays U.S. Treasury Index; MBS: Bloomberg Barclays U.S. Mortgage-Backed Securities Index; CMBS: Bloomberg Barclays Commercial Mortgage-Backed Securities Index; ABS: Bloomberg Barclays Asset-Backed Securities Index; Investment Grade Corporates: Bloomberg Barclays U.S. Corporate Investment Grade Index; Emerging market corporates: JPMorgan CEMBI Diversified Index: Preferred securities: ICE BofA U.S. All Capital Securities Index: Senior loans: Credit Suisse Leveraged Loan Index: High vield corporates: Bloomberg Barclays U.S. Corporate High Yield 2% Issuer Capped Index: Emerging market sovereigns: JPMorgan EMBI Global Diversified Index. Past performance is no guarantee of future results. Indices are unmanaged and unavailable for direct investment.

High yield remains relatively attractive, but economic trajectory is still uncertain

THE WHAT

THE WHY—RATES

THE WHY—INCOME

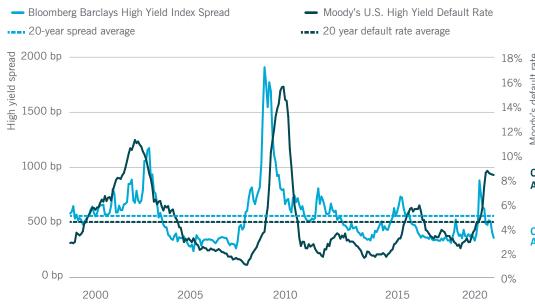
THE WHY-CREDIT

WHY NOW-SECTOR

THE HOW

High yield corporate

Spreads narrowed dramatically, but offer relatively attractive income



1

Strong demand for yield and relatively lower duration risk, coupled with open capital markets, provide a tailwind for high yield

Current default rate: 8.4% Average default rate: 4.6%

Current spread: 361 bp Average spread: 556 bp

Sources: Bloomberg Barclays, Moody's. As of 31 Dec 2020.

Defaults forecasts have moderated

THE WHAT

THE WHY—RATES

THE WHY—INCOME

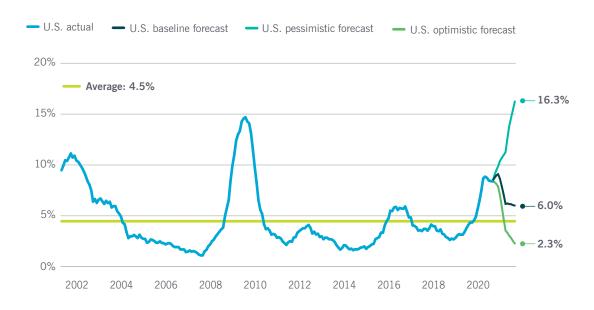
THE WHY-CREDIT

WHY NOW-SECTOR

THE HOW

High yield corporate

Forecasted default-rate scenarios





Default activity has declined from levels reached earlier in the year

Source: Moody's Investors Service. As of 31 Dec 2020.

Improving bank fundamentals support preferred securities

THE WHAT

THE WHY—RATES

THE WHY—INCOME

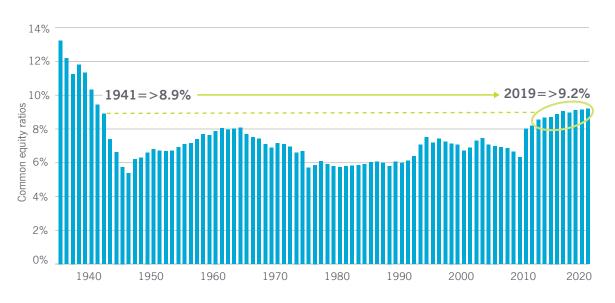
THE WHY-CREDIT

WHY NOW-SECTOR

THE HOW

Preferred securities

U.S. bank common equity ratios are at the highest levels since the 1940s





Regulatory changes requiring banks to hold more capital support preferred securities

Sources: Federal Deposit Insurance Corporation, New York Federal Reserve Bank and Barclays Research from 1934–2019.

Valuations among preferred market segments have significantly changed

THE WHAT THE WHY—RATES THE WHY—INCOME THE WHY-CREDIT WHY NOW-SECTOR THE HOW

Preferred securities

Relative value metrics of preferred market segments



\$25 par securities have nicely recovered, but remain rich to \$1,000 par and contingent capital securities

As of 31 Dec 2020, Source: Bloomberg L.P. Representative indexes: \$1,000 par preferred; market capitalization-weighted blend of the ICE BofA U.S. Investment Grade Institutional Capital Securities Index and the ICE BofA U.S. High Yield Institutional Capital Securities Index; Contingent Capital (CoCo): ICE BofA Contingent Capital Index; \$25 par preferred: ICE BofA Core Plus Fixed Rate Preferred Index.

Senior loans remain attractive in the low-yield environment

THE WHAT

THE WHY—RATES

THE WHY—INCOME

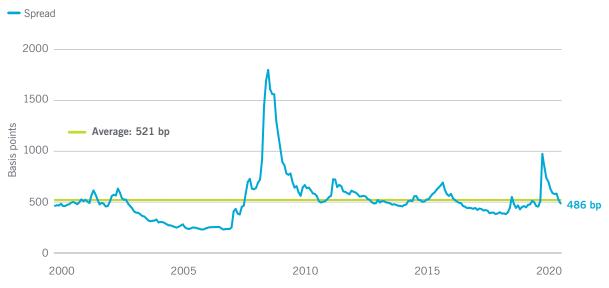
THE WHY-CREDIT

WHY NOW-SECTOR

THE HOW

Senior loans

Spreads have normalized, but remain fairly healthy





With floating rate coupons, loans offer benefits should rates continue to head higher

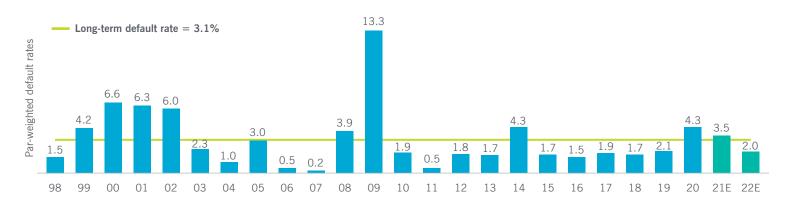
Source: Credit Suisse. As of 31 Dec 2020. Spreads based on 3-year life discount margin of Credit Suisse Leveraged Loan Index. Past performance is no guarantee of future results.

Loan defaults are expected to remain low

THE WHAT THE WHY—RATES THE WHY—INCOME THE WHY—CREDIT WHY NOW—SECTOR THE HOW

Senior loans

Loan default rates over time (%)



Following a period of elevated levels, loan defaults are expected to be low for the foreseeable future as capital markets remain open and issuers have termed out existing debt

Source: JP Morgan. As of 31 Dec 2020. Past performance is no guarantee of future results.

Emerging markets are increasingly important to the world's economy

THE WHAT

THE WHY—RATES

THE WHY—INCOME

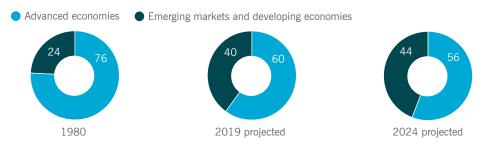
THE WHY-CREDIT

WHY NOW-SECTOR

THE HOW

Emerging markets

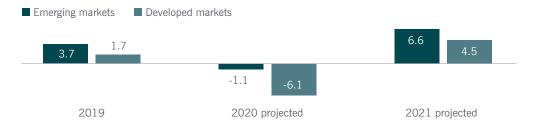
Increasing percentage of global GDP





Emerging markets are a large and growing share of the global economy

Expectations for a shallower contraction and faster recovery



Source: IMF as of Oct 2019. Percent of global gross domestic product (GDP) is based on purchasing power parity (PPP). As of 30 Apr 2020.

Emerging market debt offers attractive yields

THE WHAT

THE WHY—RATES

THE WHY—INCOME

THE WHY-CREDIT

WHY NOW-SECTOR

THE HOW

Emerging markets

Emerging market debt remains cheap relative to U.S. credit





A vaccine-led recovery, central bank liquidity and attractive valuations relative to other sectors should support emerging markets assets

Source: Bloomberg, JP Morgan, Nuveen. As of 31 Dec 2020.

^{*}Spread of emerging market debt to U.S. credit (ratings adjusted) is the credit spread of the JPMorgan Emerging Markets Bond Index - Global Diversified (EMBI-GD) less the blended credit spread of a 50-50 mix of the Bloomberg Barclays U.S. High Yield Index and the Bloomberg Barclays U.S. Investment Grade Corporate Index.

Emerging markets are not a monolithic asset class

THE WHAT THE WHY—RATES THE WHY—INCOME THE WHY—CREDIT WHY NOW—SECTOR THE HOW

Emerging markets

• Downward ratings trajectory • In need of structural reform Laggards • In need of better policy coherence · Improving outlook • Addressing key structural Reformers reforms Potential for improved GDP and investment climate · Sound economics framework Steady · Strong buffers in place as you go • Relatively low financing needs

 Prognosis remains poor/ highly uncertain

Nuveen emerging markets country cohorts

· Up-and-coming markets

Good growth stories
Lower correlation
Significant event risk
Political, economic, structural

instabilitu

Frontier

Crisis-

laden

Heterogeneous risks and opportunities require rigorous analysis and active management

Source: Nuveen. As of 31 Dec 2020. Map may not represent current views and only reflects samples of our cohort classifications.

Our investment philosophy

THE WHAT

THE WHY—RATES

THE WHY—INCOME

THE WHY-CREDIT

WHY NOW-SECTOR

THE HOW

Nuveen leadership

We believe we can achieve solid risk-adjusted returns over time by combining deep sector expertise, an active approach and risk management

Fundamental tenets of our investment philosophy

Leverage sector specialists Exploit market inefficiencies through active management Consider risk at every decision point Take a long-term view



This philosophy, and the process that supports it, enables us to serve our clients and helps achieve their objectives

Delivering income for more than 120 years

THE WHAT

THE WHY—RATES

THE WHY—INCOME

THE WHY-CREDIT

WHY NOW—SECTOR

THE HOW

Nuveen leadership

The ability to find yield changes as markets change. Nuveen believes by maximizing diversification, we can help our clients achieve higher yields and lower portfolio volatility.

Our clients' goals:

Different sources of durable income

How we deliver:

Diversification

Diversifying risk and return by harnessing a full breadth of income capabilities

Our experience:

2020 Refinitiv Lipper Fund AwardsBest Fixed Income
Large Fund Group¹

Yield with minimum levels of risk

Stewardship

Benefiting from our heritage of generating lifetime income and creating better outcomes

65+ years of navigating equity market cycles²

Top 5 real estate manager globally³

Constructing portfolios to meet long-term needs

Expertise

Persistently innovating and leveraging deep sector expertise across public and private markets

40+ years as an active private capital investor

Nuveen traces its history back to 1898, and TIAA was founded in 1918.

¹ The Refinitiv Lipper Fund Awards are based on the Lipper Leader for Consistent Return rating, which is a risk-adjusted performance measure calculated over 36, 60 and 120 months. Lipper Leaders fund ratings do not constitute and are not intended to constitute investment advice or an offer to sell or the solicitation of an offer to buy any security of any entity in any jurisdiction. For more information, see lipperfundawards.com. Lipper Fund Awards from Refinitiv, © 2020 Refinitiv. All rights reserved. Used under license. Certain funds have fee waivers in effect. Without such waivers ratings could be lower. Past performance does not guarantee future results. The Fixed Income Large Fund award is based on a review of risk-adjusted performance of 33 companies for 2020. The award pertains only to the Nuveen Family of Funds in the income category.

² Nuveen has been investing in equities since 1952 with the inception of the CREF Stock Account.

³ ANREV/INREV/NCREIF Fund Manager Survey 2020. Survey illustrated rankings of 140 fund managers globally by AUM as at 31 Dec 2019.

Endnotes

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Glossary

The Alternative Minimum Tax (AMT) was originally enacted to ensure that all taxpayers pay their fair share of the costs of government. Determining if a taxpayer is subject to AMT requires tax liability be calculated twice: first using the regular tax rules and then a second time using the AMT rules. Only if the AMT calculation produces a higher tax liability than the regular tax rules, is a taxpayer subject to the Alternative Minimum Tax. Sharpe Ratio (Risk-Adjusted Return) is a risk-adjusted return measure calculated using standard deviation and excess return to determine reward versus unit of risk. The higher the Sharpe Ratio, the better the historical risk-adjusted performance. Standard Deviation (Risk) is a statistical measure of the historical volatility of a mutual fund or portfolio; the higher the number, the greater the risk. Senior Loan is a loan that takes priority over other debts of the issuer.

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Primarily due to the time constraints and lot sizes applicable to these transactions, and because the full range of trading techniques is generally not available (including aggregation), the prices received in these transactions may be less favorable than the prices that could be attained for sales of securities selected by NAM as part of ongoing management. Clients always reserve the right to fund accounts with cash as opposed to legacy securities and to keep any securities in their accounts upon termination of services.

A word on risk

All investments carry a certain degree of risk, including possible loss of principal, and there is no assurance that an investment will provide positive performance over any period of time. Investing in municipal bonds and a municipal bond investment vehicle involves risks such as interest rate risk, credit risk and market risk, including the possible loss of principal. The value of the portfolio will fluctuate based on the value of the underlying securities. In addition, the callability of bonds may increase interest rate risk exposure in the Laddered portfolios. Upon call, a client may be confronted with a less favorable interest rate environment than the one that existed when the original bond was purchased. Investors should contact a tax professional regarding the appropriateness of tax-exempt investments in their portfolio. If sold prior to maturity, municipal securities are subject to gain/losses based on the level of interest rates, market conditions and the credit quality of the issuer. Income may be subject to the alternative minimum tax (AMT) and/or state and local taxes, based on the state of residence. Income from municipal bonds held by a portfolio could be declared taxable because of unfavorable changes in tax laws, adverse interpretations by the Internal Revenue Service or state tax authorities, or noncompliant conduct of a bond issuer. Nuveen Asset Management is not a tax advisor. Consult your professional advisors before making any tax or investment decisions. This information should not replace a client's consultation with a professional advisor regarding their tax situation. High vield or lower-rated bonds and municipal bonds carry greater credit risk, and are subject to greater price volatility. Preferred securities are subordinate to bonds and other debt instruments in a company's capital structure and therefore are subject to greater credit risk. Certain types of preferred, hybrid or debt securities with special loss absorption provisions, such as contingent capital securities (CoCos), may be or become so subordinated that they present risks equivalent to, or in some cases even greater than, the same company's common stock. There are specific risks associated with international investing, which include but are not limited to foreign company risk, adverse political risk, market risk, currency risk and correlation risk. In addition, investing in securities of developing countries involves greater risk than, or in addition to, investing in developed foreign countries.

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