San Bernardino County Employees' Retirement Association

Investment Committee

August 2019



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Emerging Markets Debt Blend Plus



Objective and Approach

Objective

 To outperform a 50% hard currency/50% local currency emerging markets debt benchmark, over a full market cycle

Approach

 Express best ideas from a broad range of emerging markets sovereign bonds, corporate bonds, local bonds, currencies and volatility through long and short exposures

Strategy to Achieve Objective

- Select hard currency sovereign, quasi-sovereign, and corporate bonds in countries where
 we believe they are attractively priced—sell (short) those bonds that we believe are
 unattractively priced
- Within countries we believe to be attractively valued, invest in the credit quality tier and positions on the yield curve that are most favorably priced
- Exploit pricing anomalies within countries by buying cheap bonds and selling (shorting) expensive bonds
- Invest in local currency bonds, futures, and swaps in an effort to take advantage of favorable local interest rates and movements
- Invest in currencies that have high yields (carry) and strong potential for appreciation short overvalued currencies
- Invest in FX volatility across currencies where volatility risk premium is attractive
- Manage risk actively

Investment Performance



Pramerica Emerging Market Debt Opportunities Fund

Investment Performance

	YTD (%)	1 Year (%)	3 Year (%)	5 Year (%)	Since Inception (%)
Gross	14.52	13.79	8.53	5.88	5.66
Net	14.05	12.97	7.82	5.18	4.96
Benchmark	10.03	10.77	4.91	2.46	2.40
Increment (Gross)	+4.49	+3.02	+3.61	+3.42	+3.26
Increment (Net)	+4.01	+2.20	+2.90	+2.72	+2.56

Dollar Weighted Return (IRR)

	Since Inception (%)
IRR	6.45
Benchmark	3.26
Increment	3.19

Annual Returns



Pramerica Emerging Market Debt Opportunities Fund

Annual Returns

	Portfolio Returns Gross (%)	Portfolio Returns Net (%)	Benchmark (%)	Gross Difference (bps)
2019 YTD	14.52	14.05	10.03	+449
2018	-7.18	-7.75	-5.15	-203
2017	18.75	18.02	12.74	+601
2016	16.75	16.00	10.16	+659
2015	-4.97	-5.61	-7.14	+217
2014 (Jul. 1–Dec. 31)	-5.65	-6.03	-6.33	+68

Source of portfolio returns: PGIM Fixed Income. Performance shown gross of fees. Performance reported in USD. Past performance is not a reliable indicator of future performance. Performance over one-year is annualized. Since Inception performance is measured as of 06/09/2014

Benchmark: 50% JP Morgan EMBI Global Diversified/50% JP Morgan GBI-EM Global Diversified. Source of Benchmark: JP Morgan.

Yield Summary



Pramerica Emerging Market Debt Opportunities Fund

Yield Summary

Summary	Long Notional MV (millions)	Short Notional MV (millions)	Net Notional MV (millions)	Nominal Yield Contribution (%)
Hard Currency Bonds	137,868.26	-32,329.11	105,539.16	6.67
Hard Currency Derivatives	83,407.72	-264,826.58	-181,418.87	-1.03
Swaps	2,195.52	-69,385.98	-67,190.46	0.17
CDS	16,547.90	-86,316.21	-69,768.30	-2.10
Futures	31,989.61	-109,070.17	-77,080.56	0.25
Option	117.33	-54.23	63.11	0.00
TR Swaps	32,557.35	0.00	32,557.35	0.64
Local Currency Bonds	44,852.26	0.00	44,852.26	2.96
Local Currency Derivatives	123,625.22	-47,733.63	75,891.59	-0.03
Swaps	123,625.22	-47,733.63	75,891.59	-0.03
CDS	0.00	0.00	0.00	0.00
Futures	0.00	0.00	0.00	0.00
Options	0.00	0.00	0.00	0.00
TR Swaps	0.00	0.00	0.00	0.00
FX	124,164.53	-120,446.68	3,717.85	1.65
FX Options	452,688.73	-448,747.63	3,941.10	0.00
Cash/Repo	41,035.85	-102,357.36	-61,321.50	-0.96
Other	1,057.86	-106.96	950.90	0.00
Total	1,008,700.44	-1,016,547.95	-7,847.51	9.24

OTEEMOPP

Benchmark: 50% JP Morgan EMBI Global Diversified/50% JP Morgan GBI-EM Global Diversified

^Performance as of Date: 06/30/2019

Currency: USD

Current Yield Summary



Pramerica Emerging Market Debt Opportunities Fund

Current Yield Summary

Summary	Long Notional MV (millions)	Short Notional MV (millions)	Net Notional MV (millions)	Current Yield Contribution (%)
Hard Currency Bonds	137,868.26	-32,329.11	105,539.16	5.71
Hard Currency Derivatives	83,407.72	-264,826.58	-181,418.87	-1.06
Swaps	2,195.52	-69,385.98	-67,190.46	-0.12
CDS	16,547.90	-86,316.21	-69,768.30	-2.10
Futures	31,989.61	-109,070.17	-77,080.56	0.25
Option	117.33	-54.23	63.11	0.00
TR Swaps	32,557.353	0.00	32,557.35	0.91
Local Currency Bonds	44,852.26	0.00	44,852.26	3.02
Local Currency Derivatives	123,625.22	-47,733.63	75,891.59	0.00
Swaps	123,625.22	-47,733.63	75,891.59	0.00
CDS	0.00	0.00	0.00	0.00
Futures	0.00	0.00	0.00	0.00
Options	0.00	0.00	0.00	0.00
TR Swaps	0.00	0.00	0.00	0.00
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Total	1,008,700.44	-1,016,547.95	-7,847.51	6.71

OTEEMOPP

Benchmark: 50% JP Morgan EMBI Global Diversified/50% JP Morgan GBI-EM Global Diversified

^Performance as of Date: 06/30/2019

Currency: USD

PGIM FIXED INCOME

Emerging Markets Debt Investment Team



Experienced and Stable Team

- Investment team averages 13 years with the firm and 18 years investment experience
- Approach leverages full resources of the firm

Senior Portfolio Managers

Cathy Hepworth, CFA Co-Head of Emerging Markets Debt 33 vrs Investment Experience

David Bessey¹ Co-Head of Emerging Markets Debt 30 yrs Investment Experience

Portfolio Management

Hard Currency and Blend

Cathy Hepworth, CFA Senior Portfolio Manager 33 yrs Investment Experience

Matthew Duda, CFA² Portfolio Manager, LATAM 26 yrs inv exp.

Johnny Mak Portfolio Manager, Asia 19 yrs inv exp.

Todd Petersen Portfolio Manager, **EMEA** 14 yrs inv exp.

Aayush Sonthalia, CFA Portfolio Manager, **EM Corporates** 19 yrs inv exp.

Rodrigo Navarro, CFA

Portfolio Manager.

11 yrs inv exp.

Portfolio Manager, **EM Hard Currency** 21 yrs inv exp. London

Mark Thurgood³

Pradeep Kumar, PhD, CFA Portfolio Manager. Local Rates/FX 22 yrs inv exp.

Nick Ivanov, CFA4

Head of Emerging

Markets Debt Corporate

David Dichiacchio Portfolio Manager and Trader. Local Rates/FX 6 yrs inv exp.

Elizabeth Gunning, CFA

Analyst

EMEA/LATAM Corporates

19 yrs inv exp.

Zan Huang PhD, CFA Quantitative Strategist, Rates and FX 8 vrs inv exp.

Asset Selection 26 yrs inv exp.

Mani Sabapathi, CFA, FSA

Portfolio Manager,

Charles Wells³ Trader. Local Rates / FX 6 yrs inv exp

Markus Zehnder Trader, Local Rates/FX 19 yrs inv exp.

Emerging Market Corporate Debt Research

U.S.

Local Currency and Blend

Mariusz Banasiak, CFA

Senior Portfolio Manager

15 yrs inv exp.

Monika Patel Trader, Local Rates/ FX 5 vrs inv exp

Global Macroeconomic Research & Investment Strategy

Eric Giza

Portfolio Manager,

EMD

12 yrs inv exp.

U.S.

Nathan Sheets, PhD Chief Economist and Head of Global Macroeconomic Research 26 vrs inv exp.

Robert Tipp, CFA Chief Inv. Strategist, and Head of Global Bonds 35 yrs inv exp.

Kishlaya Pathak, CFA Investment Strategist 19 vrs inv exp.

Mehill Marku Investment Strategist 20 yrs inv exp.

Jurgen Odenius, PhD Economic Counselor and Lead Economist. 26 yrs inv exp.

Bond Research 25 yrs inv exp.

> Juan Otero, CFA5 Portfolio Manager/Analyst Asian Corporates 13 vrs inv exp.

Omari Douglas-Hall **Analyst** EMEA/LATAM Corporates 9 yrs inv exp.

Michael Pettit. CFA Analyst EMEA/LATAM Corporates 7 yrs inv exp.

U.S.

Ellen Gaske, PhD, CFA Lead Economist , G10 30 yrs inv exp.

Gerwin Bell, PhD Lead Economist. Asia 27 yrs inv exp.

Francisco Campos-Ortiz, PhD Lead Economist. LATAM 7 yrs inv exp

Giancarlo Perasso³ Lead Economist, CEEMEA 32 yrs inv exp.

London

Singapore

Umar Manzoor⁵ Portfolio Manager/Analyst Asian Corporates 18 yrs inv exp.

Yanru Chen⁵ Analyst Asian Corporates 14 yrs inv exp.

Staff as of April 2019. Staff years as of March 31, 2019. ¹Retiring first quarter of 2020. ²Retiring in September of 2019. ³European Team members are employees of an indirect subsidiary of PGIM, Inc., who have been providing services to PGIM Limited, a UK subsidiary that is authorized and regulated by the Financial Conduct Authority. 4Member of PGIM Fixed Income's credit research group. 5Employee of a wholly-owned subsidiary of PGIM, Inc., PGIM (Singapore) Pte. Ltd.

Investment Process

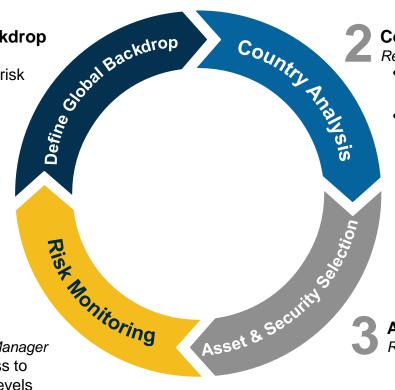


A Disciplined Approach

Define Current Global Backdrop

Senior Portfolio Manager

 Assess global appetite for risk to determine portfolio risk profile, leveraging firm's resources



Country Analysis

Regional Economists

- Develop comprehensive economic outlook by country
- Evaluate each country from quantitative and qualitative perspective and assign internal rating

Risk Monitoring

Senior Portfolio Manager/Risk Manager

- Employ a rigorous process to tightly monitor risk at all levels
- Use proprietary tools to verify performance achieved is appropriate for risk taken

Asset & Security Selection

Regional Portfolio Managers/Economists/Analysts

- Seeks to determine best risk/reward opportunities across instruments
- Use proprietary tools to highlight relative value opportunities within markets
- Implement relative values trades with pairs trading strategy

Reference

PGIM FIXED INCOME

Presenter Biographies



Mariusz Banasiak, CFA, is a Principal and Head of Local currency bonds and FX for PGIM Fixed Income's Emerging Markets Debt Team. Mr. Banasiak is also a senior portfolio manager for the Emerging Markets hedge fund product as well as being responsible for developing currency strategy for Global and Core plus mandates. Prior to assuming this position, he was a Vice President for PGIM Fixed Income's Emerging Markets Debt Team, responsible for developing portfolio strategies on USD sovereign and local emerging market yield curves and currencies in the Europe, Middle East, and Africa (EMEA) region. Previously, Mr. Banasiak was an Analyst for emerging market debt portfolios in the Portfolio Analyst Group of PGIM Fixed Income. Earlier, he was responsible for risk analysis and performance attribution for the Firm's proprietary portfolios. Mr. Banasiak joined the Firm in 2004. He received a BS with Honors in Finance from Rutgers University and holds the Chartered Financial Analyst (CFA) designation.

Peter Taggart is Principal, Client Advisory for PGIM Fixed Income. Mr. Taggart works with our largest institutional investors in developing fixed income solutions to meet their needs. Mr. Taggart has more than 20 years of experience in the investment management business, structuring and managing portfolios for U.S. and international institutions. Prior to joining PGIM Fixed Income in 2002, Mr. Taggart was Executive Director of Marketing with WestAM. Previously, Mr. Taggart was Managing Director with Forstmann-Leff, where he was responsible for marketing equity, fixed income and private equity investment services to institutions. Prior to Forstmann-Leff, Mr. Taggart was with Salomon Brothers Asset Management for nine years, in both bond portfolio management and client relations positions and at First Boston Asset Management, where he was a bond Portfolio Manager. Mr. Taggart received a BA in Computer Science from Colgate University.

For purposes of the biographies, the "Firm" is defined as Prudential Financial, Inc. ("PFI"). All PGIM and Prudential named entities are subsidiaries or affiliates of Prudential Financial, Inc. Prudential Financial, Inc. of the United States is not affiliated with Prudential plc, headquartered in the United Kingdom.

Portfolio Positioning



Pramerica Emerging Market Debt Opportunities Fund

Positioning

	Notional Marl	Tracking Error	
	Long (\$mm)	Short (\$mm)	(Bps)
Strategy	1037.6	-982.1	987

201 322
0
641
22
307
987

Currency

Vega Contribution*
-1
-1
4
4
7

Currency Exposure

Longs

INR

AUD

NOK

Hard Currency Bond	s (ex-Pairs) Overweights	Local Currency Bonds (ex-Pairs) Overweights	
Currency	Notional Market Value (%)	Currency	Duration Contribution	
Ukraine	3.86	China	1.91	
Argentina	3.82	Mexico	1.02	
Greece	2.57	Indonesia	0.48	
Romania	2.56	Russian Federation	0.36	
Egypt	2.51	Malaysia	0.36	
Hard Currency Bonds (ex-Pairs) Underweights		Local Currency Bonds (ex-Pairs) Underweights		
Currency	Spread Duration Contribution	Currency	Duration Contribution	
China	-0.31	Korea	-0.19	
Philippines	-0.28	Chile	-0.16	
Mexico	-0.20	Colombia	-0.12	
Malaysia	-0.15	Israel	-0.04	
Korea	-0.14	Czech Republic	-0.02	

Currency	Spread Duration Contribution (Longs)	Notional Market Value (%) Net			
Romania	1.03	0.15			
Argentina	0.84	1.28			
Brazil	0.71	-1.58			
Malaysia	0.19	-1.92			
Turkey	0.06	0.87			
Local Currency Bonds (Pairs)					

	RUB	7.25%
	MXN	5.76%
S	horts	Market Value (%)
	CHF	-6.25%
	BRL	-5.98%
	CLP	-5.72%
	TWD	-5.48%
	TRY	-3.35%

Market Value (%)

11.41%

9.75%

8.33%

Portfolio Characteristics			
Weighted Average Life (yrs)	12.79		
Average Yield (%)	9.24		

Duration Contribution

(Longs)

Quality Breakdown ¹	Port Weight (% NMV) ²
A and Above	12.25
BBB	7.26
BB	36.54
В	33.00
Below B & NR	-139.92

Emerging Markets Debt—Performance



Strong EM Performance over Long Term with Moderate Volatility

Asset Class Returns

Growth of \$100 from February 28, 1994 to March 31, 2019



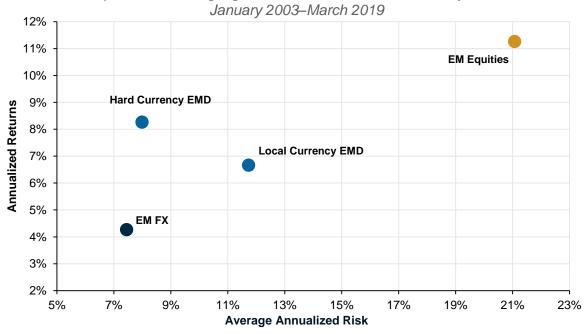
Past performance is not a guarantee or a reliable indicator of future results. Please see the Reference section for important disclosures, including risk, net returns, and benchmark descriptions. The value of investments can go down as well as up. Where overseas investments are held the rate of currency exchange may cause the value of investments to fluctuate. If applicable, investments in emerging markets are by their nature higher risk and potentially more volatile than those inherent in some established markets and non-USD securities are converted to USD using a spot rate conversion. All return periods longer than one year are annualized. Source of chart: PGIM Fixed Income. Source of indices: JPM EMBI Global Diversified, J.P. Morgan; S&P 500 and 3-Month LIBOR, Bloomberg; Bloomberg Barclays Global Aggregate, Bloomberg Barclays; ICE BofAML US High Yield Index, BofA Merrill Lynch; MSCI EAFE Equity and MSCI EM Equity, Morgan Stanley. 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. An investment cannot be made directly in an index.

Performance Comparison—EM Debt vs. EM Equities



On a Risk Adjusted Basis, Emerging Markets Debt is More Attractive than Emerging Markets Equities

Risk and Return of Emerging Markets Investments Since the Inception of Emerging Markets Debt Local Currency Market



	Hard Currency EMD	Local Currency EMD	EM FX	EM Equities
Return ¹	8.26%	6.66%	4.26%	11.26%
Risk ¹	7.99%	11.73%	7.45%	21.08%
Sharpe Ratio ¹	0.88	0.46	0.40	0.47

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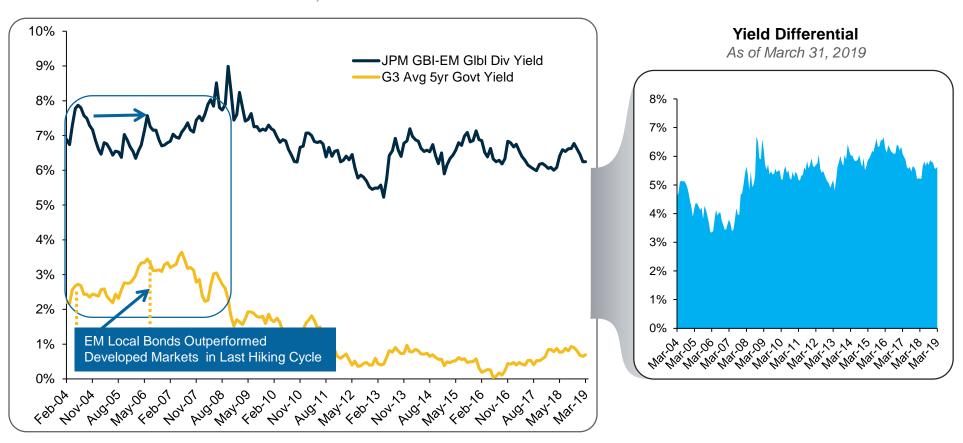
Emerging Markets Debt—Yields



Local Bond Yields Are Still Wide Compared to Developed Markets

Emerging Markets Yields vs. 5-Year G3 Government Yield

As of March 31, 2019



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PGIM FIXED INCOME

Emerging Markets Debt Outlook



NEXGEM and Other Idiosyncratic Countries Can Be Fertile Ground for Alpha

Country Index Returns

EMBI Global Diversified Index

June YTD 2019
Index Total Return (%)

FY 2018

FY 2017

Top 15 Performers In The Index

Ukraine	21.55	11
Ecuador	21.35	4
Kenya	20.25	2
Nigeria	18.46	0
Angola	18.11	0
Ghana	17.38	2
Costa Rica	17.03	2
Senegal	16.24	0
Egypt	15.19	4
Jordan	14.94	1
Cote D'Ivoire	14.40	2
Gabon	14.40	1
Kazakhstan	14.34	4
Paraguay	13.98	-1
Tunisia	13.93	1

Mozambique	14.02	0
Belize	2.76	0
Azerbaijan	1.31	+1
Serbia	1.04	-3
Mongolia	0.86	+5
Croatia	0.82	-7
Brazil	0.79	-5
Lithuania	0.79	-5
China	0.76	-10
Poland	0.74	-14
Vietnam	0.27	-1
Slovakia	-0.12	-1
Honduras	-0.15	+1
Pakistan	-0.19	+4
Jamaica	-0.24	-3

Top 15—FY 2017	Index Total Return (%)	Alpha ¹
Belize	57.13%	+2
Angola	24.24	+7
Mongolia	23.69	+5
Iraq	23.53	+9
Ethiopia	21.61	+1
Mozambique	21.14	+1
Zambia	20.89	+3
Cameroon	20.69	+2
El Salvador	19.93	+3
Ecuador	19.21	+4
Uruguay	19.13	-4
Ghana	18.47	+3
Ukraine	17.91	+15
Dominican Republic	17.01	+2
Egypt	16.75	+13
Detter 45 FV 2047	Index Total Deturn (0/)	Almho1

Bottom 15 Performers In The Index

VEHEZUEIA	-12.91	-3
Zambia	-4.98	-3
Suriname	1.75	0
Lithuania	3.47	6
Slovakia	4.04	2
Lebanon	4.24	-2
Serbia	4.93	3
Turkey	5.03	-8
Poland	5.75	11
Georgia	6.18	1
Croatia	6.45	6
China	6.71	16
Kuwait	7.67	0
Mozambique	7.69	0
Vietnam	7.74	0

Bottom 15—FY 2018	Index Total Return (%)	Alpha ¹
Egypt	-6.88	-4
Ukraine	-7.27	-4
Sri Lanka	-7.43	+2
Cameroon	-7.48	0
Oman	-7.95	+2
Cote D'Ivoire	-8.32	0
Costa Rica	-8.39	-2
Kenya	-8.51	+2
Ecuador	-9.20	+3
Tunisia	-10.00	-1
Senegal	-10.63	-1
Nigeria	-10.73	0
Venezuela	-20.29	+12
Argentina	-22.22	-38
7ambia	-24.79	0

Bottom 15—FY 2017	Index Total Return (%)	Alpha ¹
Venezuela	-34.43%	+17
Bolivia	0.47	+3
Latvia	2.16	+1
Slovakia	3.41	+2
Lithuania	4.42	+6
China	4.6	+16
India	4.93	+3
Poland	5.27	+13
Lebanon	5.34	-1
Philippines	5.91	+17
Russia	5.99	+17
Pakistan	6.36	0
South Africa	7.15	+4
Serbia	7.23	+3
Hungary	7.52	+14

June YTD Total Index Return: 11.31% 2018 Total Index Return: -4.26% 2017 Total Index Return: 10.26%

= Countries we were Overweight

= Countries we were Underweight

= Neutral

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Emerging Markets Debt Outlook



Uncertainty Creating Opportunities

Base Case

- Selective attractive valuations after rally
- Global growth converging as US slows more
- Trump/Xi trade tensions on "hold"
- Dovish momentum for Fed/ECB; inflation is low globally
- Cycle long, but next global recession not likely to be policy provoked
- Broad USD weakness may be reasserting itself

Risks to Base Case

- Trade tensions could re-escalate
- Geopolitics and sanctions policy (Iran, Russia)
- Falling commodities
- Additional unanticipated policy uncertainty (Argentina, Mexico/ Pemex, Turkey)

Strategy

Spread Risk—Mid/Late Cycle

- Emphasis on relative value, favoring barbell
- Single-B and BB sovereigns attractive vs US/qlobal HY
- Focus on carry/ roll in higher risk issuers; in higher quality issuers focus on steep spread curves

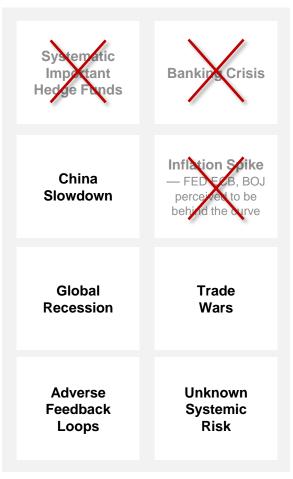
EMFX—Mid Cycle

- EM currencies generally good fundamental value
- Focus on relative value and carry positions, with a small short dollar bias
- Looking for signs of growth pickup to increase exposure

Local Bonds—Mixed Cycle

- Favor markets where real yields are high
- Adding exposure where curves are steep and inflation is declining

What are Potential Drivers of the Next Major Selloff?



Source: PGIM Fixed Income as of July 2019. The comments opinions and estimates contained herein are based on and/or derived from publicly available information from sources that PGIM Fixed Income believes to be reliable. We do not guarantee the accuracy of such sources or information. This outlook, which is for informational purposes only, sets forth our views as of this date. The underlying assumptions and our views are subject to change. Past performance is not a guarantee or a reliable indicator of future results. Provided for discussion purposes only. Does not constitute a recommendation regarding the merits of any investments. Does not constitute investment advice and should not be used as the basis for any investment decision. Does not constitute a representation that PGIM Fixed Income has purchased or would purchase any of the investments referenced or that any such investments would be profitable.

PGIM FIXED INCOME

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