



Massachusetts Pension Reserves Investment Management Board



Matthew Eagan, CFA
VP, Portfolio Manager

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December 7, 2015



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BOSTON DETROIT SAN FRANCISCO LONDON SINGAPORE

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

loomis sayles at a glance

A Rich Investment Tradition

Serving investors with integrity since 1926

\$232.0 billion assets under management*

Expertise across all major asset classes

76% of investment professionals dedicated to research & trading; 149 CFA® charterholders**

Global perspective: investors in Boston, San Francisco, Detroit, London and Singapore

Serving clients in



What Defines Us

Core attributes: integrity, transparency and a team-oriented culture

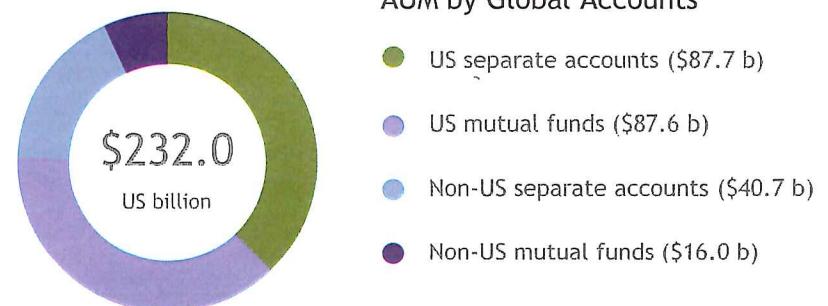
Rigorous fundamental analysis complemented by robust macro and market insight

Portfolio managers, strategists, research analysts and traders collaborating to identify our best ideas

Small, accountable product teams implementing portfolio decisions

Disciplined risk awareness integrated into a high conviction investment process

AUM by Global Accounts



As of 9/30/2015. * Includes the assets of both Loomis, Sayles & Co., LP, and Loomis Sayles Trust Company, LLC. (\$16.0 billion for the Loomis Sayles Trust Company). Loomis Sayles Trust Company is a wholly owned subsidiary of Loomis, Sayles & Co. Company, L.P. ** 284 investment professionals. 81% of CFA charterholders are investment professionals and 19% are non-investment professionals.



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deep insight fuels our pursuit of alpha

MACRO STRATEGIES

- Director
35 years experience
- Associate Director/
Senior Global Macro Strategist
20 years experience
- Senior Equity Strategist
30 years experience
- 2 Economists
26 years average experience
- 2 Analysts
6 years average experience
- Research Associate
- Research Assistant

CREDIT RESEARCH

- Director
32 years experience
- 23 Senior Credit Analysts
20 years average experience
- 13 Credit Analysts
9 years average experience
- 9 Research Associates
- 8 Research Assistants

CONVERTIBLES & SPECIAL SITUATIONS

- Director
30 years experience
- 3 Senior Research Analysts
13 years average experience
- 2 Research Associates

QUANTITATIVE RESEARCH & RISK ANALYSIS

- Deputy CIO, Director
27 years experience
- 2 Associate Directors
19 years average experience
- Quantitative Strategist
20 years experience
- 8 Quantitative Analysts
8 years average experience
- 2 Quantitative Associates

SOVEREIGN RESEARCH

- 6 Senior Sovereign Analysts
19 years average experience
- Analyst
7 years experience

SECURITIZED RESEARCH

- Director
18 years experience
- 4 Senior Securitized Asset Analysts
18 years average experience
- 2 Securitized Asset Analysts
9 years average experience
- 2 Research Associates

EQUITY RESEARCH

- 23 Senior Analysts
18 years average experience
- 9 Analysts
7 years average experience
- Research Associate

\$88 million committed to proprietary research in 2015

As of 9/30/2015; Years experience indicates industry experience.



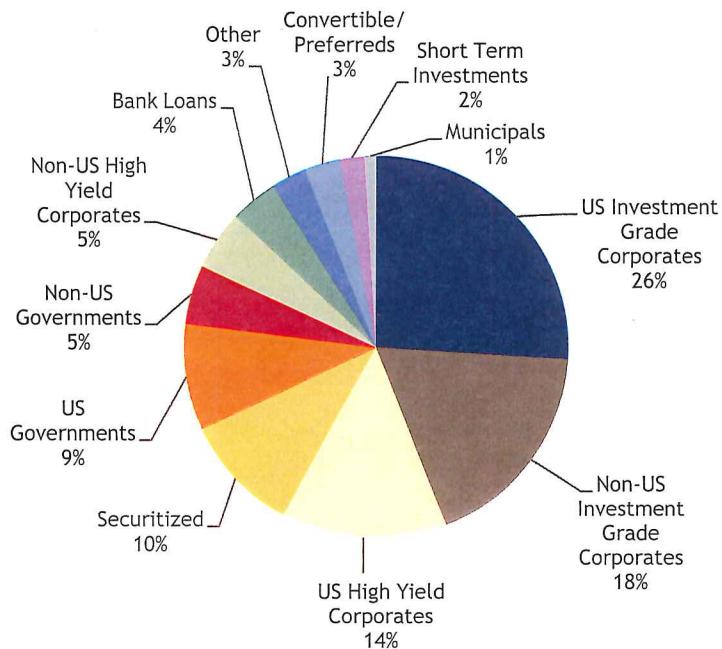
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fixed income assets under management

\$200 BILLION AS OF SEPTEMBER 30, 2015

By sector	Assets (\$ millions)
US Investment Grade Corporates	53,017
Non-US Investment Grade Corporates	36,448
US High Yield Corporates	27,546
Securitized	20,612
US Governments	17,449
Non-US Governments	10,594
Non-US High Yield Corporates	9,397
Bank Loans	7,212
Other	6,695
Convertible/Preferreds	5,725
Short Term Investments	3,897
Municipals	1,078
Emerging Market Debt*	16,765



As of 9/30/2015. Due to rounding, pie chart total may not equal 100%.

Includes the assets of both Loomis, Sayles & Co., LP, and Loomis Sayles Trust Company LLC.

*Emerging Market Debt assets totaling \$16.8 billion are included in the total fixed income assets under management. These assets are spread throughout the fixed income sectors.



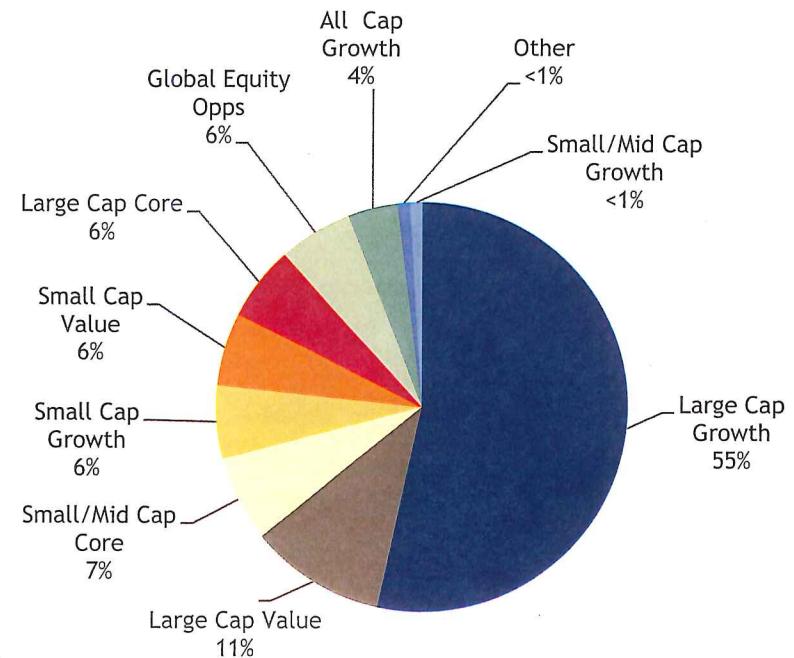
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equity assets under management

\$32 BILLION AS OF SEPTEMBER 30, 2015

By product	Assets (\$ millions)
Large Cap Growth	17,670
Large Cap Value	3,439
Small/Mid Cap Core (closed 9/2013)	2,152
Small Cap Growth (closed 6/2013)	2,059
Small Cap Value (closed 1/2002)	1,888
Large Cap Core	1,846
Global Equity Opportunities	1,788
All Cap Growth	1,344
Other	106
Small/Mid Cap Growth	71



As of 9/30/2015. Due to rounding, pie chart total may not equal 100%.
The Small/Mid Cap Core, Small Cap Value , and Small Cap Growth strategies are currently closed to new investors.
Includes the assets of both Loomis, Sayles & Co., LP, and Loomis Sayles Trust Company LLC.
Strategy assets represent all assets managed by the respective team.

global growth themes & forecasts

US

GDP growth, around 2.5% for both 2015 and 2016.



Low interest rates, low energy prices, low inflation, solid payroll growth, falling unemployment rate, easier bank lending standards, rising house prices, improving mortgage delinquency rates and housing vacancy rates, and more moderate budget deficits.



Strong dollar and weakness in major trading partners is hurting the trade balance; slump in oil-patch regions; mediocre productivity growth; plateau in after-tax profits; failure of labor force participation rate to normalize, indicating structural impediments to labor market recovery; prospect of Fed tightening.

LATIN AMERICA

Struggling economies with 1% growth in 2016, compared to growth in 4%-6% range last decade.



Recession in Brazil, other countries facing terms of trade shock with much weaker commodity prices.



Outlook for Mexico in line with US, regardless of oil prices. Currencies getting cheap in the region, with relatively high interest rates.

EUROPE

Cyclical recovery to produce 1.4% GDP growth, supported by QE, cheap oil & weak euro, but surprise is over.



Bank lending is coming back, strengthening consumer, less fiscal drag.



Refugee crisis can present political challenges.

CHINA

GDP growth will continue to slow to 5.8% in 2016, maybe a short-lived bounce.



Housing glut, inability to leverage further, declining credit policy credibility, weaker investment spending, which is almost 50% of GDP.



Gov't is getting more nervous and rolling out infrastructure deals, rate cuts, delicate balancing act between tight credit policies and stimulus programs to support economy.

JAPAN

Real GDP growth around 1.5% in 2016.



Strong corporate profits, tourism, tight labor market, lower energy prices, and now rising wages, corporate reform.



Income stuck in corporate sector, poor demographics.

ASIA PACIFIC

Growth to moderate further, but on aggregate, remain well above LATAM and EEMEA peers with growth rates in 5% to 6% range.



Weaker energy prices, stronger US growth, better part of elections cycle for exports.



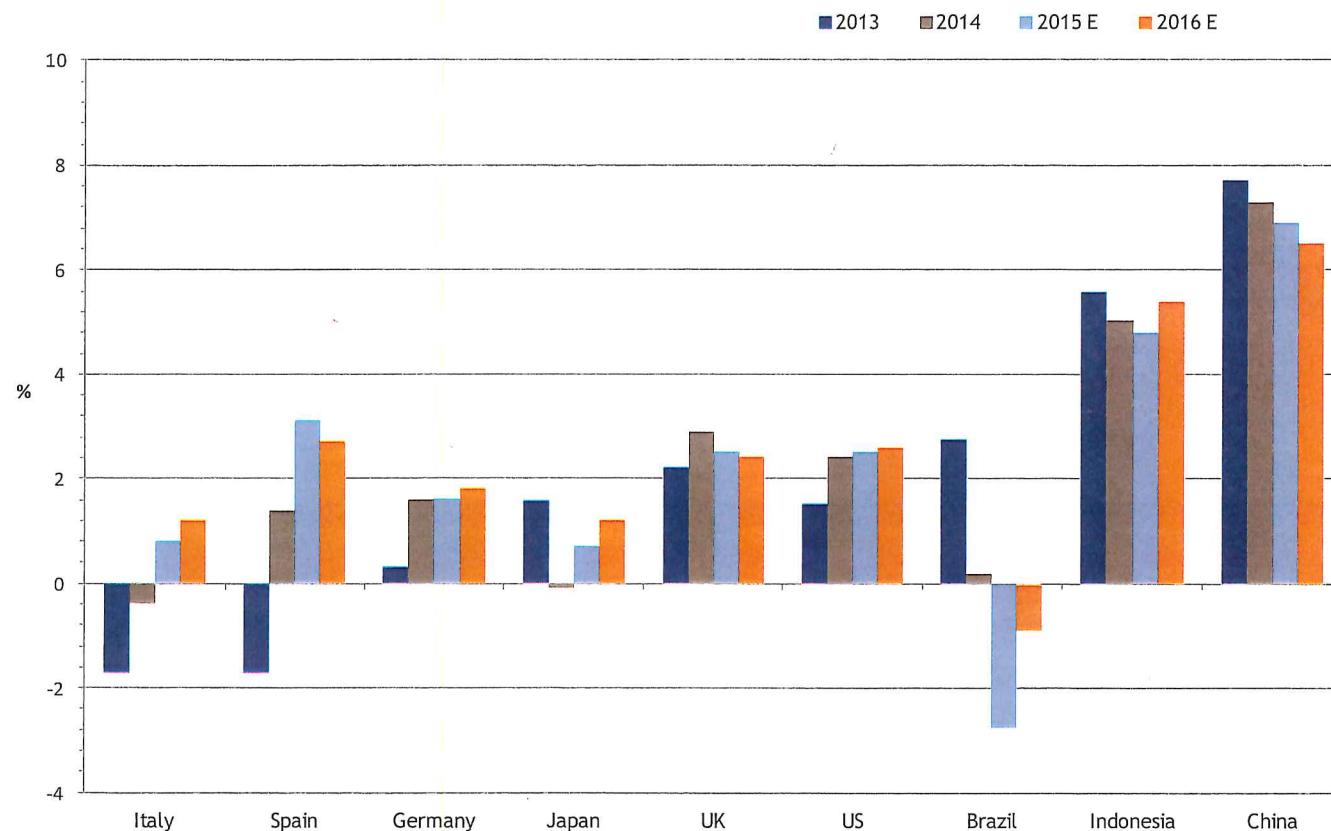
Slower China imports, weak yen, overhang of debt in a number of countries and coming off a credit boom.

Views as of September 30, 2015. This material is provided for informational use only and should not be considered investment advice. The forecasted views and opinions expressed reflect those of the Loomis Sayles Macro Team. All statements are made as of the date indicated and are subject to change at any time without notice.



global growth

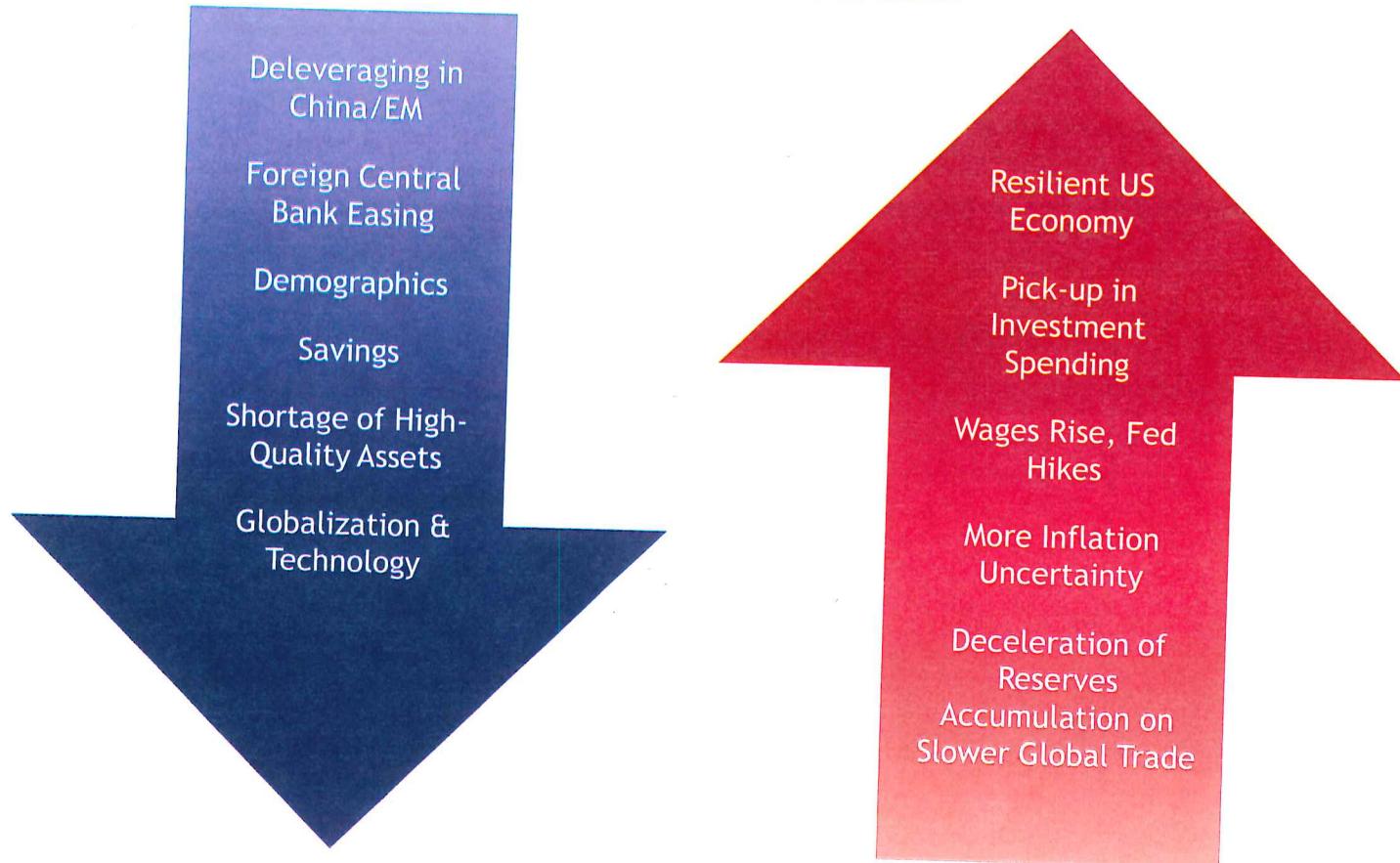
2013 - 2016 Expected Real GDP Growth



Bloomberg Consensus: 10/30/2015

conflicting currents driving interest rates

KEEP YOUR INTEREST RATE EXPECTATIONS IN CHECK



Source: Loomis Sayles illustration, as of September 2015.

This depiction shown above is for illustrative purposes only. There can be no assurance that developments will transpire as shown and actual results may likely be different.



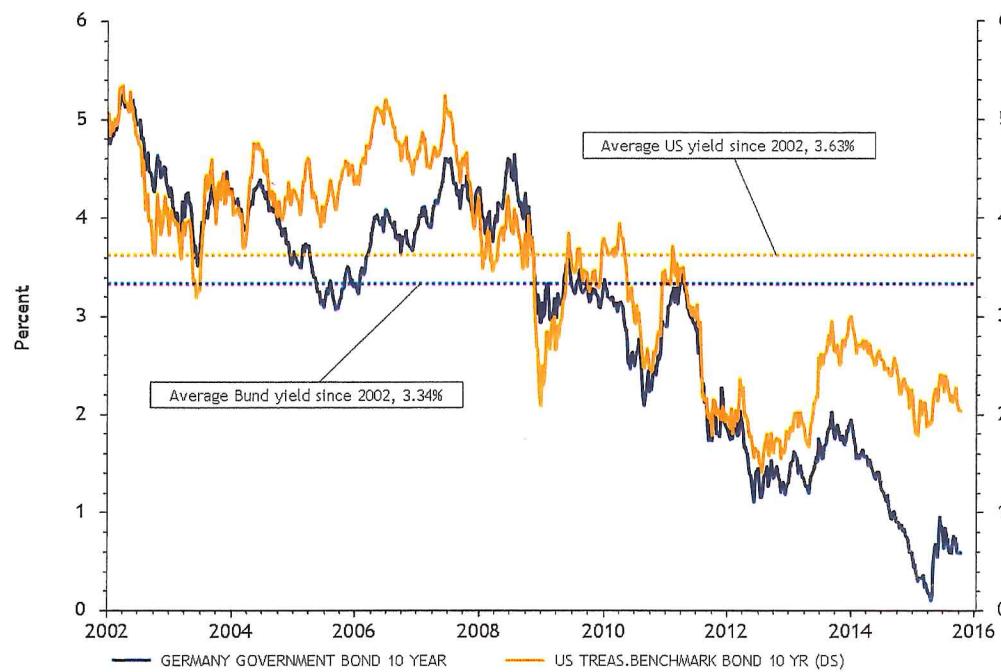
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goodbye 3.0%

US YIELDS ONLY HIT 5% DURING THE LAST BORROWING AND SPENDING BOOM IN 2005-08, AND WE ARE NOT EXPECTING A REPEAT. BUND YIELDS MAY NEVER SEE 3%

US and German Bond Yields in Perspective



Source: Thomson Reuters Datastream, as of October 13, 2015.

Indexes are unmanaged and do not incur fees. It is not possible to invest directly in an index. Past performance is no guarantee of future results.

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flattening time

WHY? FINANCIAL REPRESION, LOW VELOCITY OF MONEY, A RELATIVELY HAWKISH FED DESPITE VERY LOW INFLATION, LIBAILITY DRIVEN INVESTING, AND A LOWER TERMINAL FED FUNDS RATE



Source: Thomson Reuters Datastream, as of October 2, 2015.

Indexes are unmanaged and do not incur fees. It is not possible to invest directly in an index. Past performance is no guarantee of future results.

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when will the cold money turn hot?

SURE, THERE IS LOTS OF CASH IN THE BANKING SYSTEM BUT THE VELOCITY OF MONEY REMAINS SUBDUE, COINCIDING WITH LOW YIELDS

The Velocity of Money and US Treasury Yields

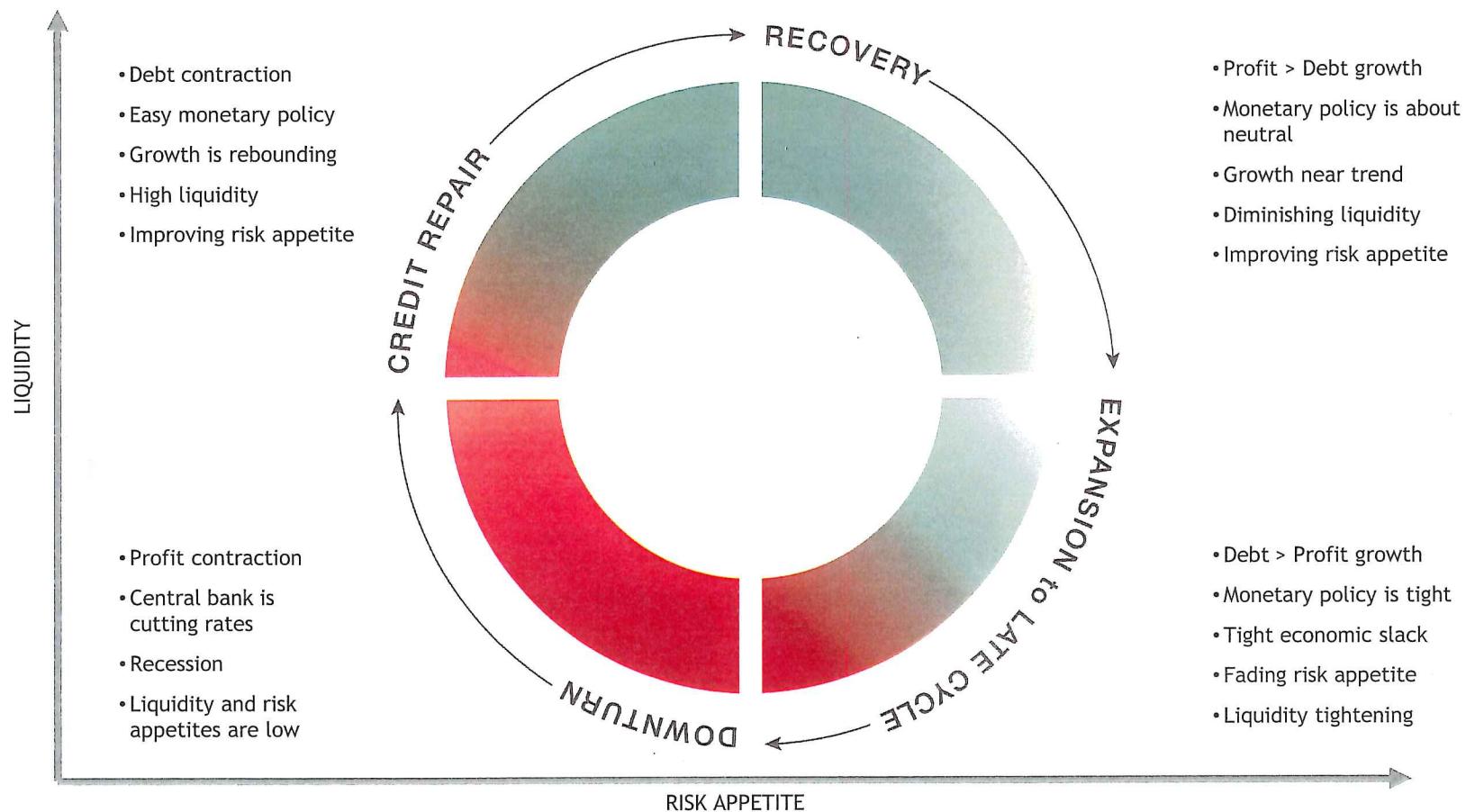


Data source: Thomson Reuters Datastream, Federal Reserve, BEA, data as of September 30, 2015.

Past performance is no guarantee of future results.

credit cycle

COMPANIES BEGIN SHIFT: FAVORING SHAREHOLDERS OVER BONDHOLDERS



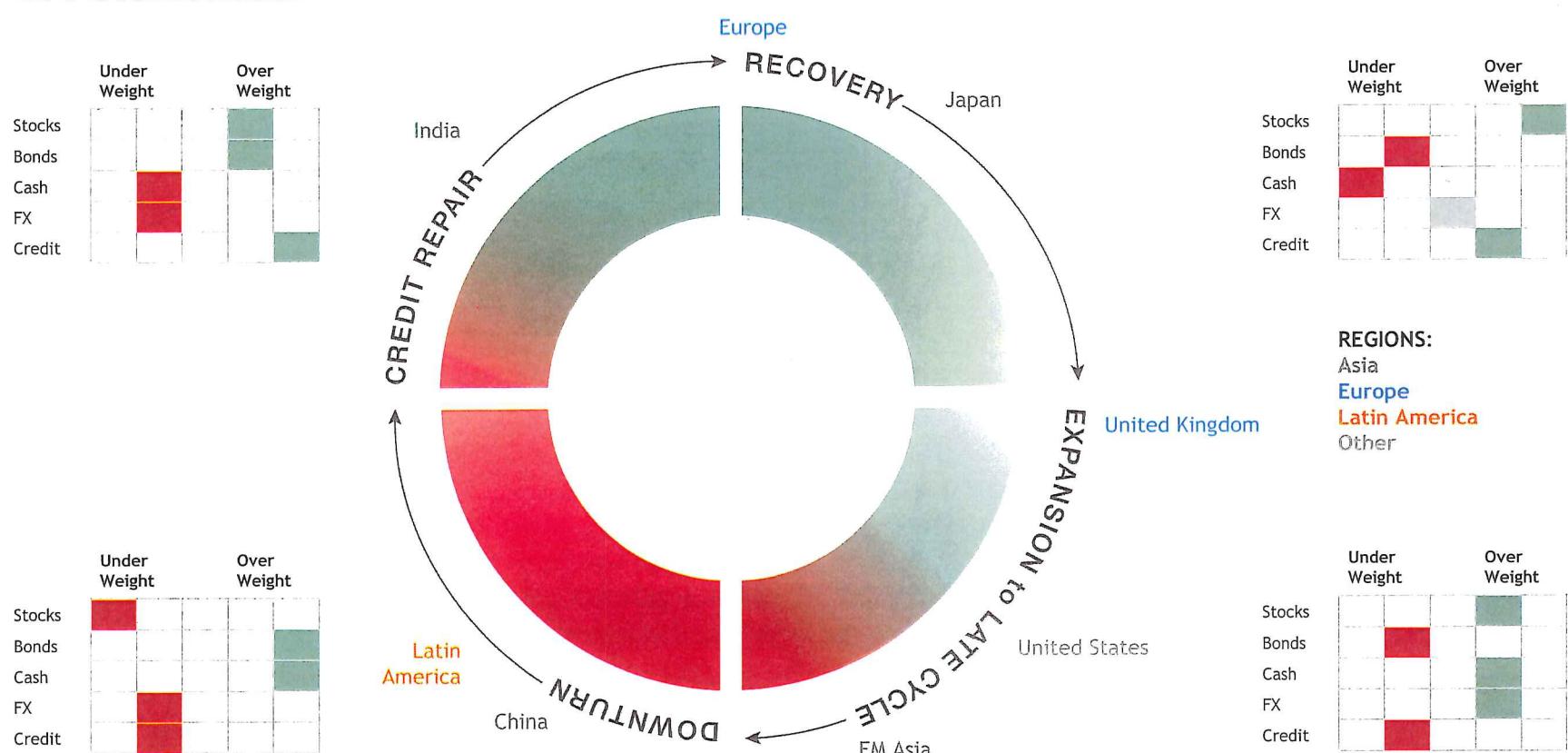
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credit cycle

DIVERGING CREDIT CYCLES AMONG COUNTRIES AND REGIONS CAN PROVIDE OPPORTUNITIES



Views as of 9/30/2015. Green shading denotes asset classes the presenter expects to appreciate and red shading denotes asset classes the presenter expects to depreciate at each point in the economic cycle. This material is provided for informational purposes only and should not be construed as investment advice. Investment decisions should consider the individual circumstances of the particular investor. This reflects the current opinions of the presenter and views are subject to change at any time without notice. Other industry analysts and investment personnel may have different views and assumptions.



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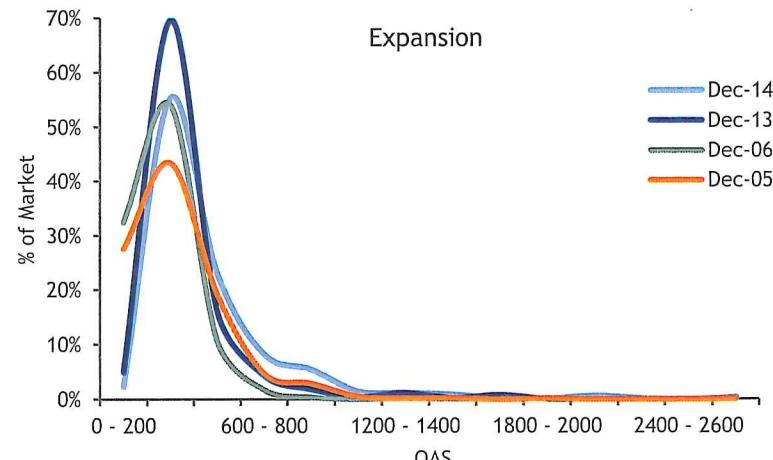
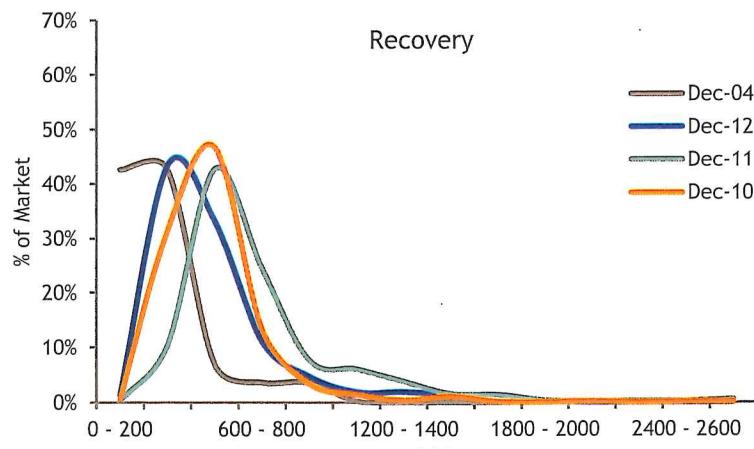
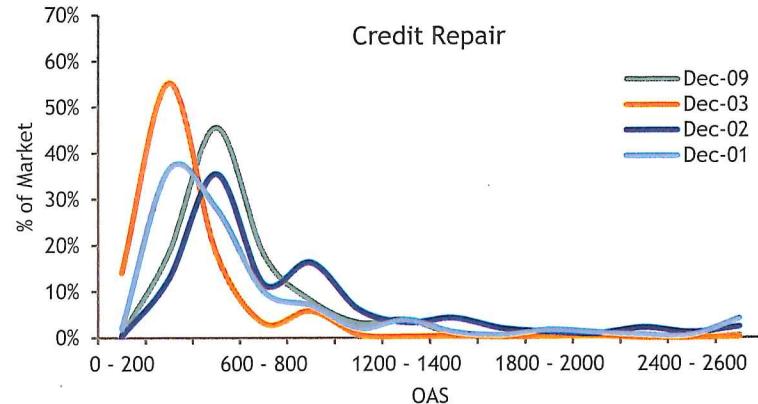
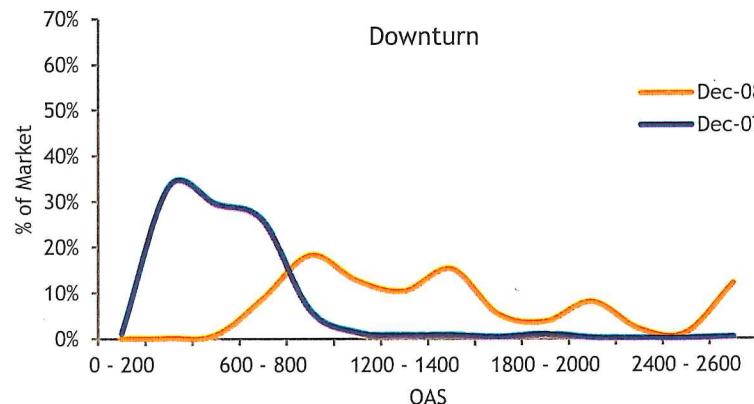
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credit cycle

STAGE OF THE CREDIT CYCLE DETERMINES ALPHA AND BETA OPPORTUNITIES

High Yield Spread Dispersion Across The Cycle



Source: Barclays. Data as of 12/31/2014.

Time periods related to the credit cycle shown are approximate and have been estimated by the investment team. Other industry Analysts and personnel may have different views and assumptions.



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investment process

PORTFOLIO CONSTRUCTION: CYCLICAL ANALYSIS GUIDES MULTI-ASSET ALLOCATION

Economic scenario	Investment Grade, Securitized & Government	High Yield, Emerging Markets, & Bank Loans	Preferreds	Master Limited Partnerships	Real Estate Investment Trusts	Dividend Equities
CREDIT REPAIR	Positive	Positive	Positive	Negative	Neutral	Negative
RECOVERY	Neutral	Positive	Positive	Neutral	Positive	Positive
EXPANSION/LATE CYCLE	Negative	Neutral	Neutral	Positive	Positive	Positive
DOWNTURN	Positive	Negative	Negative	Negative	Negative	Negative

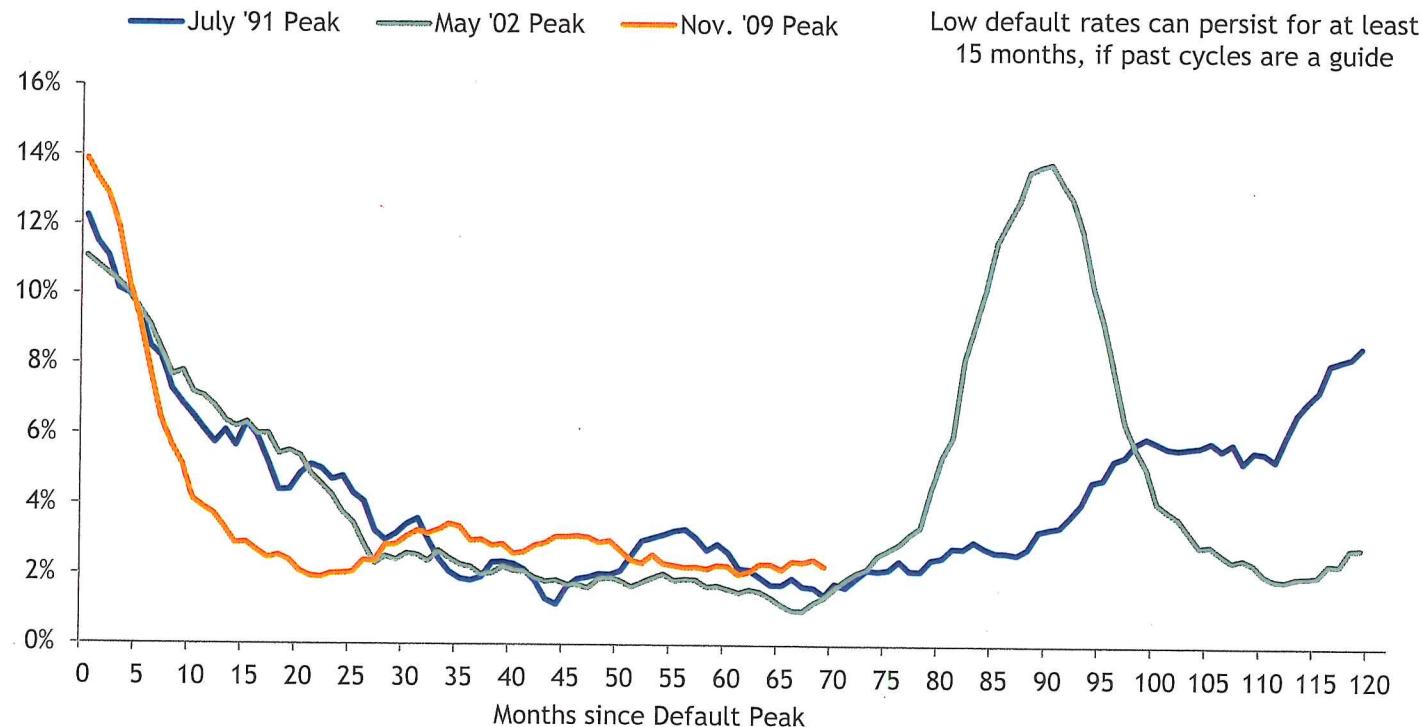
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how much longer can the cycle persist?

THE CREDIT CYCLE COULD LAST FOR ANOTHER 15-24 MONTHS COMPARED TO PREVIOUS DEFAULT CYCLES. INTEREST RATES ARE LOW AND REFI'S ARE HIGH

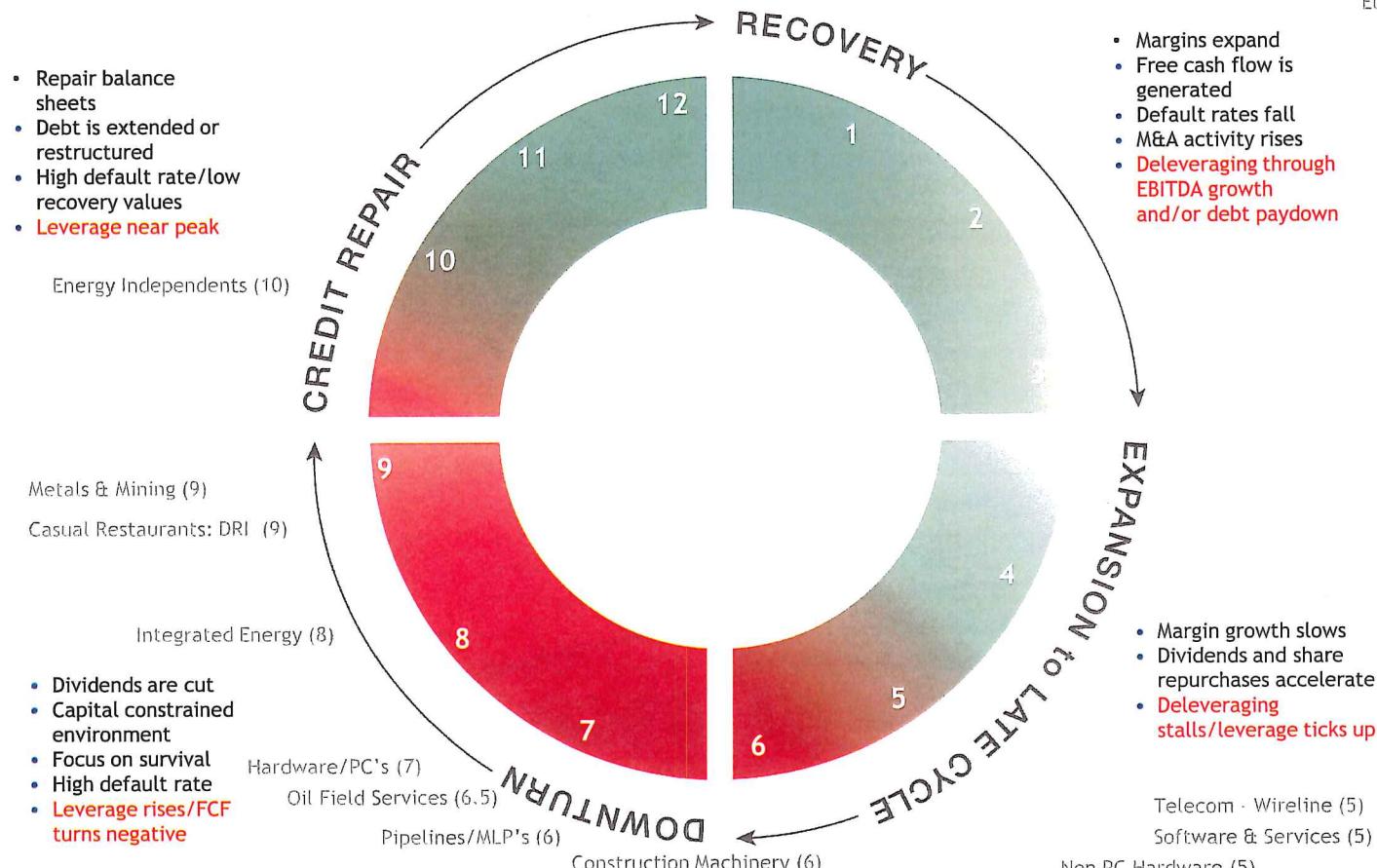
Moody's Global Default Rates



Source: Thomson Reuters Datastream, data as of August 31, 2015.

fundamental view on IG credit & leverage cycle

MAJORITY OF INDUSTRIES ARE CURRENTLY IN THE EXPANSION PHASE



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US Banks (2)
Aerospace (2)
Consumer Cycliclal Services (2)
European Building Materials (2)
Diversified manufacturing (2.5)
Euro Banks (3)
Pharmaceuticals (3)
REITs (3.5)
Textiles (3.5)
Airlines (3.5)
Home Construction (4)
Finance (4)
US Life Insurers (4)
Retailers (4)
Defense (4)
Chemicals (4)
Restaurants (4.5)
Paper & Packaging (4.5)
Restaurants (4.5)
Electrics (5)
Media/Entertainment (5)
Refiners (5)
Consumer Products (5)
Automotive (5)
Lodging (5)
Healthcare (5)
Health Insurers (5)
Food & Beverage (5)
Cable/Satellite (5)



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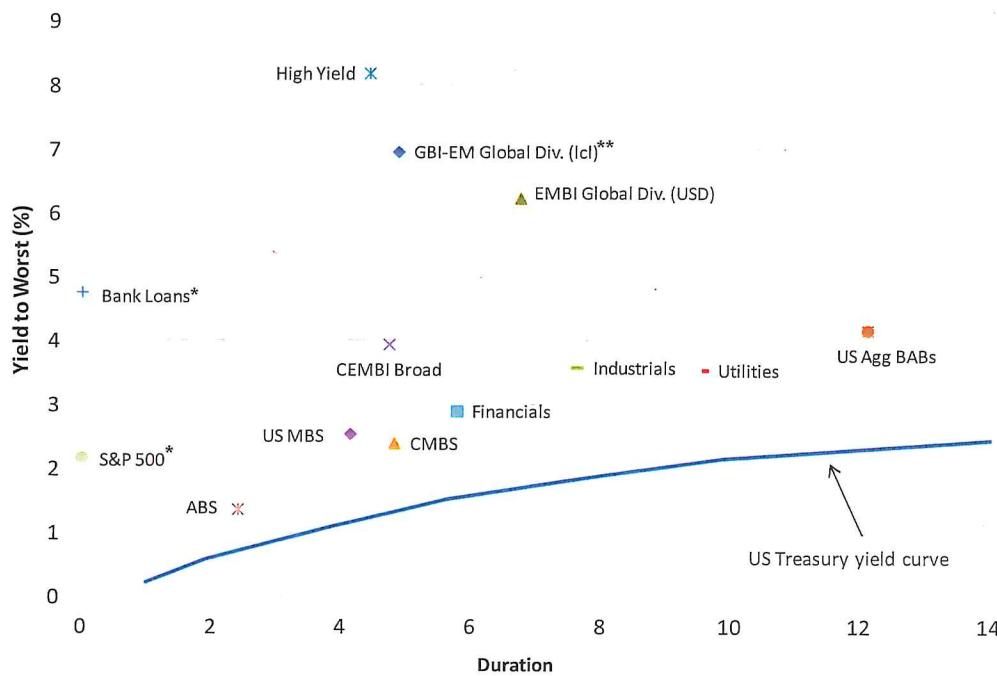
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multisector flexibility is key

CURRENT YIELDS ACROSS SECTORS

Sector Yields vs. like duration Treasurys



*Bank Loan current yield and S&P dividend yield replace YTW.

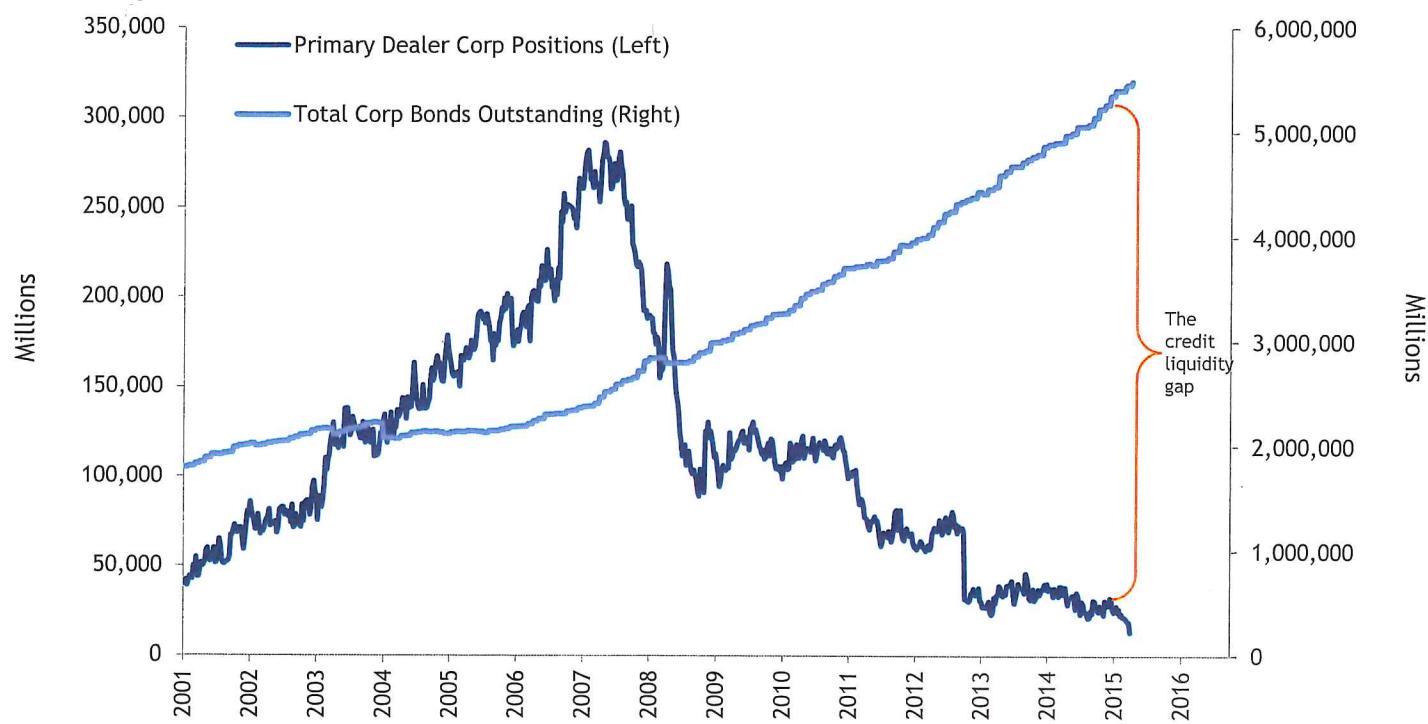
**GBI-EMYTM replaces YTW.

Sources: JPMorgan, Bloomberg, Barclays, data as of October 5, 2015. Indexes are unmanaged and do not incur fees. It is not possible to invest directly in an index. Past performance is no guarantee of future results.

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liquidity in corporate sector

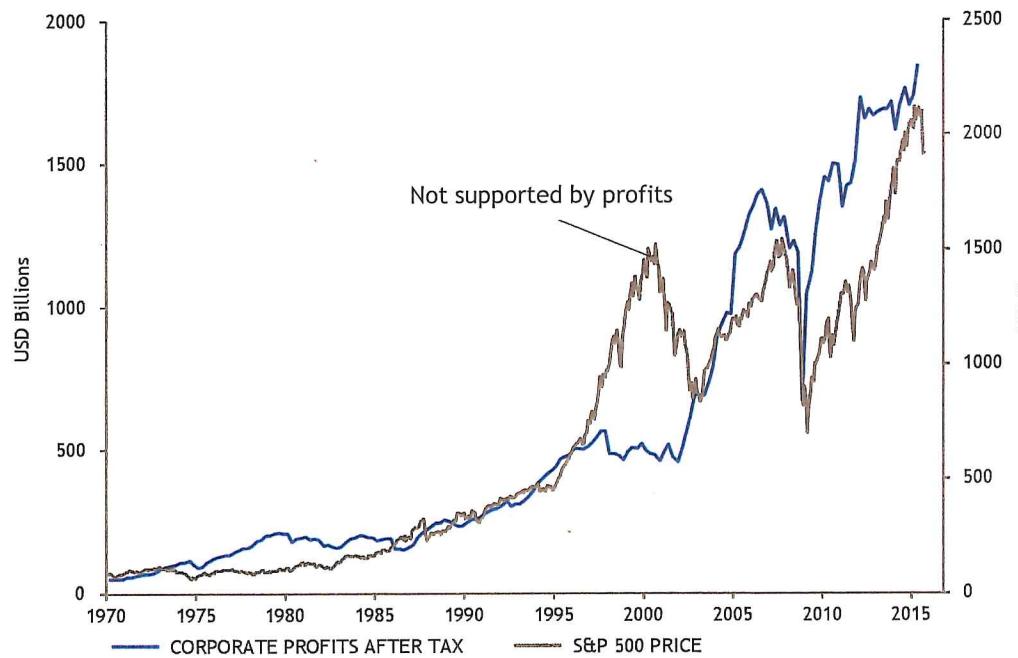


Data sources: Deutsche Bank, Barclays and Bloomberg, history through September 30, 2015.

risk appetite appears strong

MANY EQUITY MARKETS AROUND THE WORLD ARE MAKING NEW HIGHS,
ENCOURAGED BY BOTH MONETARY POLICY AND BETTER FUNDAMENTALS

United States Corporate Profits, S&P 500 Composite Index



Source: Thomson Reuters Datastream, as of October 1, 2015.

Indexes are unmanaged and do not incur fees. It is not possible to invest directly in an index. Past performance is no guarantee of future results.