



Rising benchmark durations threaten index-focused bond investors

- Benchmark durations have risen significantly over the years
- Historically low yields trigger strong supply of long-dated bonds
- A flexible and benchmark unconstrained approach is required

Just as global yields set new record lows, durations of fixed income indices are moving up rapidly. This is mainly caused by governments and companies that aim to lock in cheap financing costs by issuing longer dated bonds. If bond yields were to rise at some stage, this could have serious ramifications for index-focused or passive investors. In the current low-yield environment we advocate fixed income solutions with active and flexible duration management.

Fixed income indices are still widely used to benchmark the added value of active managers. A very important characteristic of any fixed income index is the weighted duration.¹ The duration level of a bond index is driven by the maturity of the bonds that have been issued and by other factors like coupon and yield levels. Over the years the average duration of fixed



Kommer van Trigt, Fund Manager Robeco Global Total Return Bond Fund

Olaf Penninga, Fund Manager Robeco Lux-o-rente

'Governments and companies lock in cheap financing costs'

¹ Duration is expressed as a number of years. The duration of a bond is equal to the average time an investor has to wait for all the coupons and face value of the bond. For example if there are no coupons the duration is equal to the maturity of the bond. With positive coupons the duration will be somewhat lower than the maturity of the bond. Duration also is an indicator of interest rate risk. As a proxy the bond return is equal to minus the duration times the yield change. For example if yields rise by 1% and the bond index has a duration of 7 years the bond index return will be approximately -7% (-7x1%).



income indices has increased significantly. As shown in Figure 1, this effect recently gathered pace. Over the last 30 years the duration of a widely used global government bonds index almost doubled from 4.3 years to 8.1 years at the end of June 2016 (blue line). During the last 10 years the duration rose from just below 6 years to over 8.1 years; more than half of this increase was realized in just the last two years.





Source: Robeco, J.P. Morgan Government Bond Index Global

Robeco research shows that the bulk of this increase in duration, almost 80%, relates to a change in the issuance pattern by debt agencies. Historically low yield levels have triggered a strong rise in the issuance of long-dated bonds, thereby pushing up the average maturity of the debt outstanding (orange line). Governments are locking in cheap funding, thereby reducing refinancing risks. Early May the Spanish government sold bonds with a maturity as long as 50 years for the first time in the public market. One month earlier Belgium had done the same. Italy and Japan are said to consider their own debut 50-year deals. Some Treasuries have gone even a step further. Ireland privately placed a 100-year bond this year.



Figure 2 shows that the increase in duration is visible across a broad set of countries. The UK and Japan are eye-catching; currently, the average duration of their outstanding government bonds has risen to levels close to or above 10-years. In the UK the increase relates to the structural demand for long-dated bonds from investors like pension funds and insurance companies that need to match lengthy liabilities. Also notable is the dramatic increase for countries like Spain and Italy, especially when compared with the late eighties. Joining the euro system has enabled these countries to issue much longer bonds.



Figure 2 | Average durations of outstanding government bonds in various countries

Source: Robeco, J.P. Morgan

Durations of non-government categories like corporates or government-related bonds are also on the rise. This is shown in Figure 3. This increase is less pronounced though than for government bonds and more related to the yield and coupon declines as opposed to a structural change in issuance pattern. However, especially European companies have turned to longer-dated debt as of late. The ECB's unprecedented monetary stimulus measures, including the corporate bond purchase program that started in June of this year, have pushed down corporate bond yields. Faced with a growing stock of low or negative-yielding corporate debt, also credit investors have been forced into longer-dated bonds that still offer the prospect of positive returns. Corporates are very willing to satisfy that demand.







Source: Robeco, Barclays POINT

From a borrower's perspective this all makes perfect sense. But what about investors? For those fixed income investors that tend to follow or even mimic fixed income indices, a potentially toxic combination is in the making. Just as yield levels are falling to unprecedented low levels, durations of most fixed indices are rising fast (see Figure 4). In other words, just as interest rate risk in index-related fixed income products is moving higher, compensation for that risk is falling rapidly.





Source: Robeco, J.P. Morgan Government Bond Index Global



Another way of looking at this, is by focusing on the so called 'breakeven yield rise'. With that we mean the interest rate rise that is still bearable (due to the positive carry) before the overall return dips into negative territory. In formula terms you simply divide the running yield by the duration to come to this metric. Figure 4 highlights that the breakeven yield rise has dropped dramatically (purple line).

This is not a plea for selling all fixed income exposure. In the short run yield movements tend to be more important for the overall fixed returns than the actual yield levels. The first half of 2016 is a good example of this mechanic. Although yield levels were already low at the start of the year, fixed income returns over the first half of the year were good because bond prices moved up (capital gains were made) as yields moved to even lower levels.

Rather, our analysis underpins the need for a flexible and benchmark unconstrained approach to fixed income investing, and specifically to managing the interest rate sensitivity one wants to have in a bond portfolio. An active stance towards duration management can prevent losses further down the road should bond yields start to rise while still leaving open the possibility to benefit from falling yields.

Kommer van Trigt, Fund manager Robeco Global Total Return Bond Fund Olaf Penninga, Fund manager Robeco Lux-o-rente

Important Information

Important Information explanation this presentation cannot be considered complete. It is intended to provide the professional investor with general information on Robeco's specific capabilities, but does not constitute a recommendation or an advice to buy or sell certain securities or investment products. All rights relating to the information in this presentation are and will remain the property of Robeco. No part of this presentation may be reproduced, saved in an automated data file or published in any form or by any means, either electronically, mechanically, by photocopy, recording or in any other way, without Robeco's prior written permission. The information contained in this publication is not intended for users from other countries, such as US citizens and residents, where the offering of foreign financial services is not permitted, or where Robeco's services are not available

Additional Information for investors with residence or seat in France RIAM is a Dutch asset management company approved by the AFM (Netherlands financial markets authority), having the freedom to provide services in France. Robeco France has been approved by the French prudential control and resolution authority (formerly ACP, now the ACPR) as an investment firm since 28 September 2012.

Additional Information for investors with residence or seat in Germany

This information is solely intended for professional investors or eligible counterparties in the meaning of the German Securities Trading Act.

Additional Information for investors with residence or seat in Italy

This document is considered for use solely by qualified investors and private professional clients (as defined in Article 26 (1) (d) of Consob Regulation No. 16190). If made available to Distributors and individuals authorized by Distributors to conduct promotion and marketing activity, it may only be used for the purpose for which it was conceived. Therefore, the information set forth herein is not addressed and must not be made available, in whole or in part, to other parties, such as retail clients. Robeco disclaims all liability arising from uses other than those specified herein. All rights relating to the information in this presentation are and will remain the property of Robeco.

Additional Information for investors with residence or seat in Spain

The Spanish branch Robeco Institutional Asset Management BV, Suct for the Financial Markets (CNMV) in Spain under registry number 24. cursal en España, having its registered office at Paseo de la Castellana 42, 28046 Madrid, is registered with the Spanish Authority

Additional Information for investors with residence or seat in Switzerland RobecoSAM AG has been authorized by the FINMA as Swiss representative of the Fund, and UBS AG as paying agent. The prospectus, the articles, the annual and semi-annual reports of the Fund, as well as the list of the purchases and sales which the Fund has undertaken during the financial year, may be obtained, on simple request and free of charge, at the head office of the Swiss representative RobecoSAM AG, Josefstrasse 218, CH-8005 Zurich. If the currency in which the past performance is displayed differs from the currency of the country in which you reside, then you should be aware that due to exchange rate fluctuations the performance shown may increase or decrease if converted into your local currency. The value of the investments may fluctuate. Past performance is no guarantee of future results. The prices used for the performance figures of the Luxembourg-based funds are the end-of-month transaction prices net of fees up to 4 August 2010, From 4 August 2010, the transaction prices net of fees will be those of the first business day of the month. Return figures versus the benchmark show the investment management result before management and/or performance fees; the fund returns are with dividends reinvested and based on net asset values with prices and exchange rates of the valuation moment of the benchmark. Please refer to the prospectus of the funds for further details. The prospectus is available at the company's offices or via the www.robeco.ch website. Performance is quoted net of investment management fees. The ongoing charges mentioned in this publication is the one stated in the fund's latest annual report at closing date of the last calendar year.

Additional Information for investors with residence or seat in the United Kingdom This statement is intended for professional investors only. Robeco Institutional Asset Management B.V. has a license as manager of UCITS and AIFs from the Netherlands Authority for the Financial Markets in Amsterdam and is subject to limited regulation in the UK by the Financial Conduct Authority. Details about the extent of our regulation by the Financial Conduct Authority are available from us on request.

Additional Information for investors with residence or seat in Hong Kong This document has been distributed by Robeco Hong Kong Limited ('Robeco'). Robeco is licensed and regulated by the Securities and Futures Commission in Hong Kong. The contents of this document have not been reviewed by any regulatory authority in Hong Kong. If you are in any doubt about any of the contents of this document, you should obtain independent professional advice.

Additional Information for investors with residence or seat in Singapore This document has not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this document and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of Shares may not be circulated or distributed, nor may Shares be offered or sold, or be made the subject of an invitation for subscription or purchase. whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor under Section 304 of the Securities and Futures Act, Chapter 289 of Singapore (the "SFA") or (ii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Additional Information for investors with residence or seat in Australia This document is distributed in Australia by Robeco Hong Kong Limited (ARBN 156 512 659) ('Robeco') which is exempt from the requirement to hold an Australian financial services licence under the Corporations Act 2001 (Cth) pursuant to ASIC Class Offer 03/103. Robeco is regulated by the Securities and Futures Commission under the laws of Hong Kong and those laws may differ from Australian laws. This document is distributed only to wholesale clients as that term is defined under the Corporations Act 2001 (Cth). This document is not for distribution or dissemination, directly or indirectly, to any other class of persons. It is being supplied to you solely for your information and may not be reproduced, forwarded to any other person or published, in whole or in part, for any purpose

Additional Information for investors with residence or seat in the Dubai International Financial Centre (DIFC). United Arab Emirates:

Robeco Institutional Asset Management B.V. (Dubai Office), Office 209, Level 2, Gate Village Building 7, Dubai International Financial Centre, Dubai, PO Box 482060, UAE. Robeco Institutional Asset Management B.V. (Dubai office) is regulated by the Dubai Financial Services Authority ("DFSA") and only deals with Professional Clients and does not deal with Retail Clients as defined by the DFSA.