Navigating Divergent Global ILB Markets: Why Are UK Index-Linked Gilts Persistently Overvalued?
September 8, 2015
by Mihir Worah, Mike Amey, Berdibek Ahmedov of PIMCO

SUMMARY

- The main reason for the ever-lower real yields and persistently high inflation breakevens on long-dated index-linked gilts is the seemingly insatiable demand for inflation-hedging instruments in the UK.
- Investors who have no regulatory need to own UK index-linked bonds can potentially get better value in other global ILB markets and nominal gilts.
- Unless regulations that offer cheap funding are the government’s goal, the best long-term solution in our view would be to relax regulations that cause adverse investor behavior, i.e., forcing pension funds into assets that are guaranteed to return less than the inflation rate if held to maturity.

The UK index-linked gilt market holds the distinction of being the oldest developed market inflation-linked government bond (ILB) market in the world. The first index-linked gilt was issued in 1981, well before the U.S. started its inflation-indexed Treasury programme in 1997 and many years before global ILBs became a mainstream asset class. That is interesting trivia for investors to know, but today, given outright valuations as well as relative valuations to other ILB markets, it might be more fitting to award the UK index-linked gilt market the accolade of being the most overvalued.

Of course, in today’s New Neutral environment, investors cannot, unfortunately, avoid structurally lower yields on bonds in general. However, current extremely low and negative real yields on UK index-linked gilts, particularly for long-dated bonds, do not appear to have any fundamental justifications. Put simply, it is the seemingly insatiable demand from UK pension schemes that has pushed valuations to extreme levels. These schemes feel they have no choice but to accept ever lower yields as they seek to immunise their inflation-linked liabilities. In this great chase, fundamentals are often ignored and valuations become – and quite often stay – extreme. While matching assets with liabilities is important, slavishly immunising just one aspect of the liabilities (sensitivity to changes in the discount rate) forces schemes to invest in an asset with low expected returns – and almost guarantees a growing funding
Putting the index-linked gilt valuations in perspective
As Figure 1 illustrates, the 30-year index-linked gilt real yield has been at or just below zero for a large
part of the last three years. In recent months, despite stronger UK growth and a less dovish Bank of
England, real yields have dropped to all-time lows. At the current –0.87% real yield, if the 30-year
index-linked gilt were to be held to its maturity, it would guarantee investors a whopping 23% loss in
real purchasing power in terms of the Retail Price Index (RPI).

Another way to assess the valuation of UK gilts is to compare them with other inflation-linked bonds of
similar quality. Figure 2 compares 30-year UK real yields adjusted for estimated RPI/consumer price
index (CPI) basis with 30-year U.S. Treasury Inflation-Protected Securities (TIPS). The RPI to CPI
adjustment is needed because U.S. TIPS are linked to the CPI while UK gilts are linked to the RPI,
which has different weights and a different calculation methodology. As the analysis illustrates, over
the last 10 years UK index-linked gilts have largely traded at a premium to U.S. TIPS (UK linker yields
lower than U.S. TIPS yields), but more recently this premium has exceeded the highs seen in 2008,
during the global financial crisis. Apart from a brief period in 2012 when UK linkers underperformed
U.S. TIPS because of potentially adverse alterations to the RPI index, UK linkers have become
increasingly more overvalued. Real yields on long-dated government bonds are a function of real
growth expectations for the economy as well as the creditworthiness of the sovereign. Long-term
growth expectations for the U.S. and the UK are roughly similar, while the U.S. is arguably a stronger
credit. U.S. and UK CPI inflation have been broadly similar over the long term and this is likely to
continue. Hence, one would expect long-term U.S. real yields to be somewhat below those of the UK.
Yet, as of 14 August 2015, 30-year U.S. TIPS provided a positive real yield of 1.05%, whereas UK
linkers yielded an estimated –0.10% after the RPI/CPI adjustment. Over the life of a 30-year bond,
ignoring currency hedging costs, this difference in yields equals a roughly 40% difference in estimated
total return between the two bonds in local currency terms, and assuming inflation is similar in the two
countries.

Investors should ask two key questions: First, what has driven this chase to the bottom? And second,
and more importantly, what does this imply for more flexible investors?

The forces driving index-linked gilt yields
The main reason for the ever-lower real yields and persistently high inflation breakevens on long-dated
index-linked gilts is the seemingly insatiable demand for inflation-hedging instruments in the UK.
According to data from the UK Pension Protection Fund (PPF), as of 31 July 2015 defined benefit
pension schemes covered by the PPF in aggregate had £1.5 trillion of liabilities. Most of these liabilities
are linked to inflation by regulation, whether it is to the CPI or the RPI. With many schemes now
closed, the industry, which traditionally invested in equities to generate high real returns, now faces a
shortening investment horizon. In recent years, this has prompted most schemes to start immunising
interest rate and inflation risk by buying index-linked gilts and receiving UK inflation via inflation swaps.
With only £450 billion of index-linked gilts outstanding and net new annual supply of about £30 billion–
£35 billion per year, even considering the flows going through the inflation swap markets, supply and
demand are significantly mismatched.

The regulatory link of pension liabilities to inflation and the requirement to value pension liabilities based on market yield curves have led to a circular behavior between the need for de-risking (more demand for linkers) and market yield levels. As pension funds seek to buy more index-linked gilts, they cause real yields to decrease. Lower yields, in turn, lead to growing deficits at the aggregate level as liabilities are discounted using these rates. As deficits widen, pension funds are under more pressure to more closely match the interest rate sensitivity of the liabilities, hence being forced to buy more at the lower yields, which imply lower future returns! For instance, according to the PPF, in July 2015, pension fund liabilities increased by 3.4%, reflecting reductions in conventional and index-linked gilt yields. During the same period, assets rose by 1.5%, with overall pension fund deficits widening by 1.9% – and that is just one month.

The implications for investors
In our view, the choice is simple. Investors who have no regulatory need to own UK index-linked bonds can potentially get better value in other global ILB markets. Valuations are fundamentally much more attractive in the U.S. TIPS market. We believe investors constrained by pension fund regulations to invest only in the UK would be better off spreading their exposures between index-linked gilts and conventional gilts. As Figure 3 shows, the current (RPI) inflation rate implied by index-linked gilts in order to break even with conventional gilts is 3.5%, well above the Bank of England target inflation rate. Unless regulations that offer cheap funding are the government’s goal, the best long-term solution in our view would be to relax regulations that cause adverse investor behavior, i.e., forcing pension funds into assets that are guaranteed to return less than the inflation rate if held to maturity.

DISCLOSURES

Past performance is not a guarantee or a reliable indicator of future results. Investing in the bond market is subject to risks, including market, interest rate, issuer, credit, inflation risk, and liquidity risk. The value of most bonds and bond strategies are impacted by changes in interest rates. Bonds and bond strategies with longer durations tend to be more sensitive and volatile than those with shorter durations; bond prices generally fall as interest rates rise, and the current low interest rate environment increases this risk. Current reductions in bond counterparty capacity may contribute to decreased market liquidity and increased price volatility. Bond investments may be worth more or less than the original cost when redeemed. Investing in foreign-denominated and/or -domiciled securities may involve heightened risk due to currency fluctuations, and economic and political risks, which may be enhanced in emerging markets. Sovereign securities are generally backed by the issuing government. Obligations of U.S. government agencies and authorities are supported by varying degrees, but are generally not backed by the full faith of the U.S. government. Portfolios that invest in such securities are not guaranteed and will fluctuate in value. Inflation-linked bonds (ILBs) issued by a government are fixed income securities whose principal value is periodically adjusted according to the rate of inflation; ILBs decline in value when real interest rates rise. Treasury Inflation-Protected Securities (TIPS) are ILBs issued by the U.S. government.
The U.K. Consumer Price Index (CPI) measures the change in prices for retail goods and services, including food and gas. The CPI is the key measure of inflation for the UK and is used by the Bank of England in making interest rate decisions. The report tracks changes in the price of a basket of goods and services that a typical British household might purchase. An increase in the index indicates that it takes more Sterling to purchase this same set of basic consumer items. It is not possible to invest directly in an unmanaged index.

This material contains the current opinions of the authors but not necessarily those of PIMCO and such opinions are subject to change without notice. This material has been distributed for informational purposes only and should not be considered as investment advice or a recommendation of any particular security, strategy or investment product. Information contained herein has been obtained from sources believed to be reliable, but not guaranteed. No part of this material may be reproduced in any form, or referred to in any other publication, without express written permission. PIMCO is a trademark or registered trademark of Allianz Asset Management of America L.P. in the United States and throughout the world. THE NEW NEUTRAL and YOUR GLOBAL INVESTMENT AUTHORITY are trademarks or registered trademarks of Pacific Investment Management Company LLC in the United States and throughout the world.

©2015, PIMCO.