

HEALTH WEALTH CAREER

# MERCER GLOBAL PENSION BUYOUT INDEX

OCTOBER 2016



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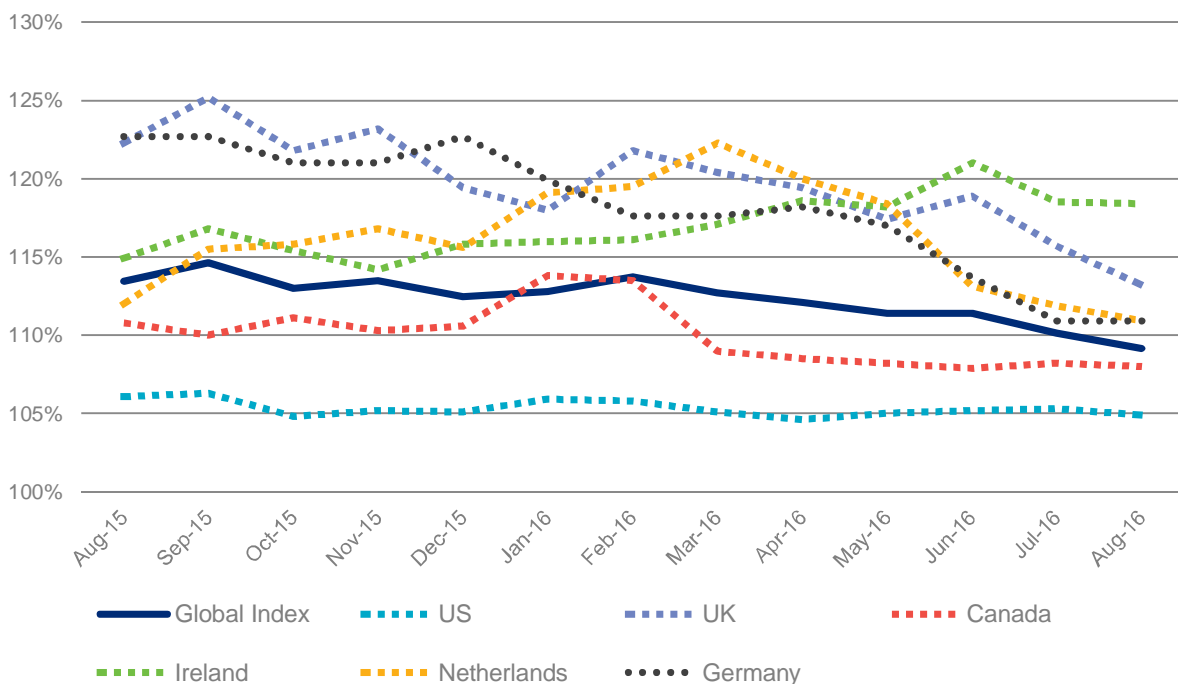


# EXECUTIVE SUMMARY

Mercer Global Pension Buyout Index monitors the general trend in the pricing of bulk pension annuity transactions in the US, UK, Ireland, Canada, Germany and the Netherlands.

Pension risk transfer transactions increasingly involve an international element – for example, the sponsoring employer might be seeking to externalise pension risk in multiple countries. Pricing is subject to movements in global financial markets and domestic requirements for insurer reserving. However, country-specific pricing often trends in different directions due to domestic influences, leading to windows of opportunity in one country relative to another.

The chart shows estimated annuity prices from insurers as a percentage of accounting liability in the six countries monitored, for existing retirees in a sample defined benefit pension plan. This is based on up-to-date pricing information provided regularly by insurers in each country.



For example, where a line is at the 110% level, Mercer estimates the average price of a pension annuity transaction for current retirees to be broadly 10% higher than the equivalent accounting liabilities. The Global Index is represented by the solid line, showing the average price of pension annuity transactions as a percentage of accounting liability across the six countries and draws upon information such as country market size.

**The Global Index has fallen during August with decreases across all countries except for Germany, where the Index remained steady. The fall in government yields since the UK's vote to leave the European Union last quarter has contributed to an increase in annuity costs. However, corporate yields have reduced by more resulting in a greater decrease to the underlying pensioner accounting liabilities and hence to the Index.**

Pension liability has been measured according to local standards. As an example, the cost of insuring pension liabilities in the UK is higher than in the US (relative to accounting liabilities) because UK pension liabilities are normally indexed for inflation, which increases the liability durations, and because insurers charge an additional premium to take on inflation risk.

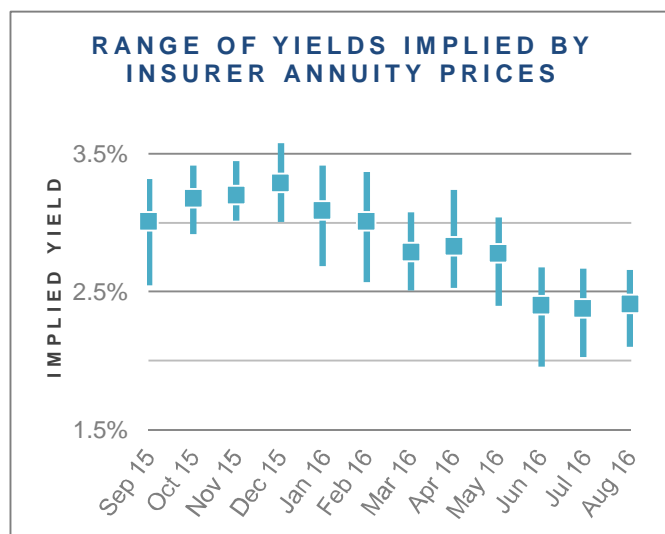
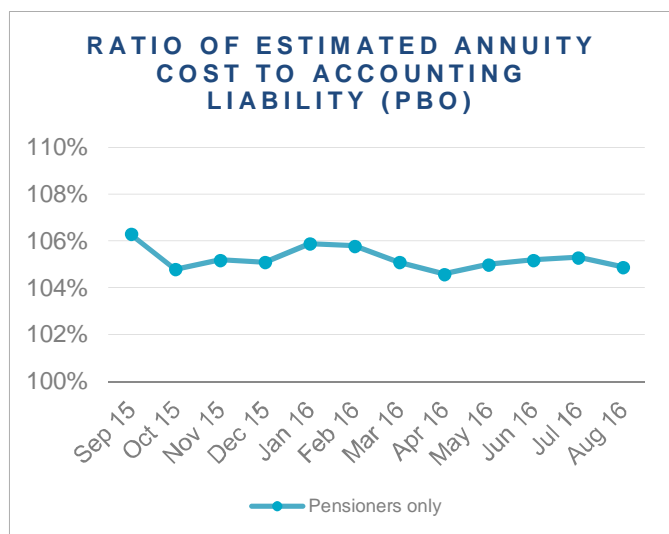
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Mercer appreciates the assistance of more than 20 insurers, which provide pricing data every month to allow this report to provide a good indication of the trend in each country.

The information contained in this report is not based on information specific to your circumstances and approximations have been used. Past experience is no guarantee of future pricing and experience may vary for your plan.

## UNITED STATES

The cost of a buyout has been decreasing in recent years relative to PBO accounting liabilities. Price transparency allows for greater information from which a plan sponsor can act. The chart on the left shows the relative price to PBO using average pricing received from insurers, and the chart on the right shows the range of sample pricing received. At a single point in time pricing between insurers varies materially which may lead to a difference in cost of up to 10%.



At the end of August 2016, if the accounting liability in respect of plan pensioners only was US\$100 million, the buyout cost would be broadly US\$4.9 million higher, as compared to July where the cost would have been US\$5.3 million higher.

When insurer pricing rates increase relative to discount rates used to calculate PBO, the premium for an annuity buyout decreases.

It should be noted that the above implied yield has increased more than corporate bond yields in August, resulting in the decrease in the ratio shown in the chart above and to the left.

## UNITED STATES MARKET NEWS

Mercer recently launched [Mercer Pension Risk Exchange®](#), a groundbreaking solution that both increases annuity price transparency by enabling plan sponsors to continuously monitor pricing and helps plan sponsors execute group annuity buyouts in a shorter timeframe and in a more competitive pricing environment. Given the current level of volatility, it is not surprising that we already have over 50 clients in the US, representing approximately US\$10 billion of assets, sign up to Mercer Pension Risk Exchange, since its launch, to execute an annuity placement. Please see the infographic at the end of this report for more information.

We continue to be in a low interest rate market with some bond and equity market volatility. This trend in the financial markets will likely continue in the coming months. Based on buy-out statistics collected from insurance companies, the pension risk transfer sales volume at the end of the second quarter of 2016 was just over US\$2B. We expect that data being collected from insurance companies will show the sales at the end of the third quarter of 2016 to be twice that amount given the announcement of the large PPG transaction and increased prevalence of retiree annuity buyouts. Given the current state of market activity, it is still possible that the total PRT sales volume in 2016 will be as high as, or just below, the US\$14 billion level experienced in 2015. As we enter the 4th quarter, financially-attractive opportunities are still available to plan sponsors, especially given that insurance companies may feel pressured to make year-end sales targets by providing aggressive pricing.

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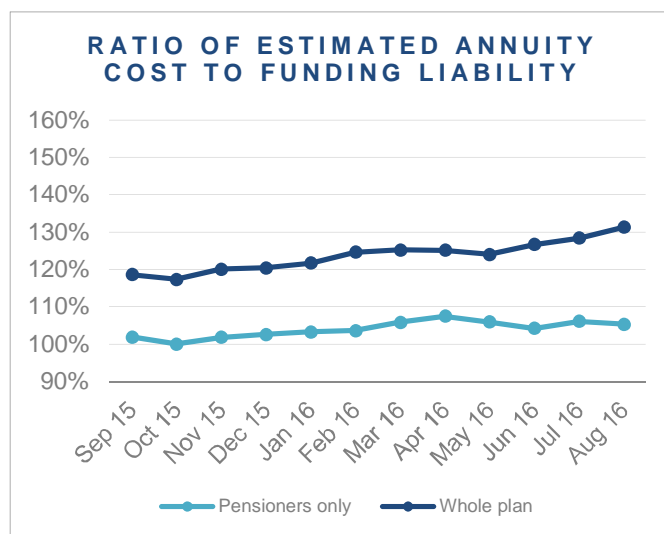
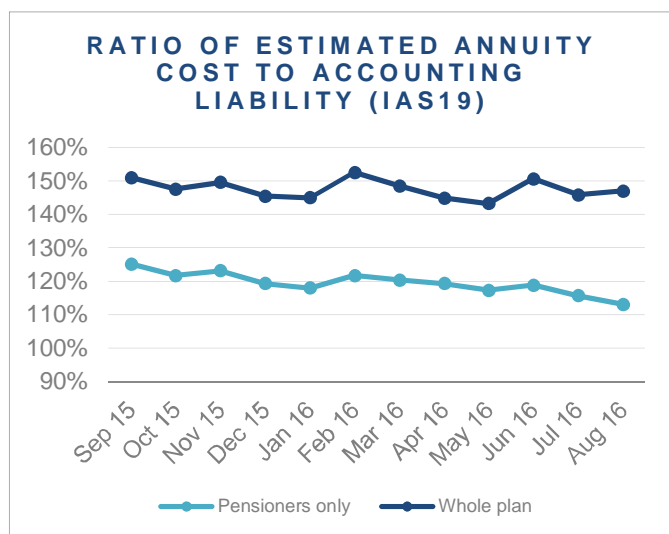
#### NOTES

The chart on the left is based on a set of liabilities with pension benefit obligations of US\$50 million, cash flow duration of 9 years, and discounted using the Mercer Yield Curve.

The figures in the charts should be used as an indication of the market pricing for annuity placements; actual pricing received will depend on plan-specific factors such as plan provisions, size, and age of the population. It is important to note that some of the insurers who provide pricing do not reflect mortality sensitivity in their illustrative rates, or benchmark to a standard table.

## UNITED KINGDOM

The charts track the cost of a buyout and buy-in of a representative pension plan against accounting and typical funding liabilities. The plan has pensioner and non-pensioner liabilities, with a weighting towards pensioners. Pensioner and non-pensioner members receive a mixture of flat and increasing pensions in payment, commensurate with an “average” UK pension plan.



At the end of August 2016, if the plan had accounting liabilities in respect of all members of £100 million, the buyout cost would be broadly £47 million higher.

If the accounting liability in respect of plan pensioners only was £100 million, the buy-in cost of pensioners would be broadly £13 million higher.

At the end of August 2016, if the plan had typical funding liabilities (technical provisions) in respect of all members of £100 million, the buyout cost would be broadly £31 million higher.

If the typical funding liability in respect of plan pensioners only was £100 million, the buy-in cost of pensioners would be broadly £5 million higher.

## UNITED KINGDOM MARKET NEWS

Throughout 2016, yields on UK government and corporate bonds have fallen, resulting in a substantial increase in pension liabilities on all measures. This yield reduction has been detrimental to the funding level of those UK pension schemes that were not similarly invested in bonds. Activity in the bulk annuity market has increased dramatically in the second half of 2016 as those schemes that were invested in bonds now look to insure their position.

Market volatility has resulted in challenges for pension plans but for a few it has created transient opportunities to transact on advantageous terms particularly as insurers show appetite for new business. Further, for US and European sponsors, the changes in exchange rates may mean that the cost in \$ and € for funding a UK plan deficit has been partly offset.

The introduction of the Solvency II European-wide standard for capital adequacy in January 2016 created a “pause” in the UK bulk annuity market during the first quarter of 2016. Nevertheless, looking at the first half of 2016 in aggregate, some £3 billion of reported bulk annuity purchases by pension schemes have taken place plus a further £9 billion of annuity back-books have transferred between insurers. The UK bulk annuity insurers continue to be relatively unaffected by the vote on 23 June 2016, with 7 insurers continuing to compete hard for business and the second half of 2016 has so far seen two large pensioner buy-in deals announced, with insurers reporting on increased interest in buy-ins since the vote to leave the EU.

Mercer’s [UK DB Bulk Pensions Insurance - Market Review](#) is available, providing detail on the UK market and what Mercer does to generate value for sponsoring employers and trustees investigating opportunities in this space.

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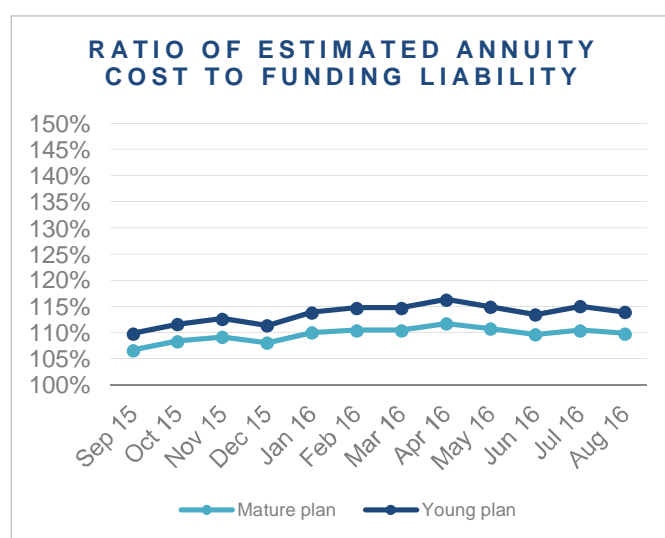
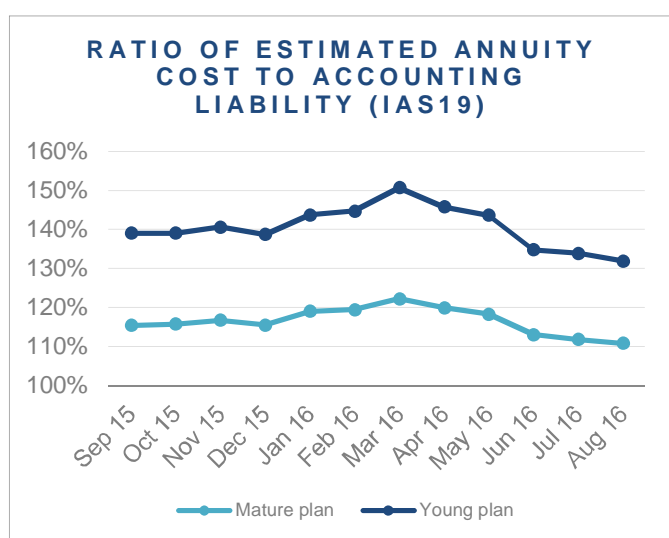
#### NOTES

The buyout or buy-in costs could be up to 10% higher or lower depending on the prudence of the assumptions adopted by the plan trustee. The capital contribution needed to implement a transaction would be higher still if the plan assets were less than the funding liability.

The accounting liabilities are valued using the Mercer Yield Curve, which is used by leading UK and multinational companies to set their discount rate for accounting purposes.

## NETHERLANDS

The charts track the cost of a buyout of two representative pension plans against accounting and funding liabilities. Mercer uses up-to-date pricing information sourced directly from a key insurer and one multi-employer pension fund<sup>1</sup> in order to compare these against the benefit liabilities based on current market conditions. The insurer price includes an estimate of the price of indexation at the same level as in the corresponding DB accounting liability, which reflects expected discretionary indexation.



At the end of August 2016, if the less mature, Young plan had accounting liabilities in respect of all members of €100 million, the buyout cost would be broadly €32 million higher.

At the end of August 2016, if the Mature plan had accounting liabilities in respect of all members of €100 million, the buyout cost would be broadly €11 million higher.

At the end of August 2016, if the less mature, Young plan had funding liabilities (technical provisions) in respect of all members of €100 million, the buyout cost would be broadly €14 million higher.

At the end of August 2016, if the Mature plan had funding liabilities (technical provisions) in respect of all members of €100 million, the buyout cost would be broadly €10 million higher.

## NETHERLANDS MARKET NEWS

The increase during 2015 and 2016 of the buyout cost compared to the accounting valuations is due to a slow but steady increase in credit spread between the risk free rate used by the insurers for the buyout price and the interest rate used for accounting valuations. This rise in credit spread peaked at the end of March 2016. It should be noted that for a different subset of bonds there was less of a peak that month. From April through to the end of August the credit spread has reduced resulting in a drop in the index. One of the likely

<sup>1</sup> Note that as of 30 June 2016, one of the parties previously providing quotes has withdrawn.

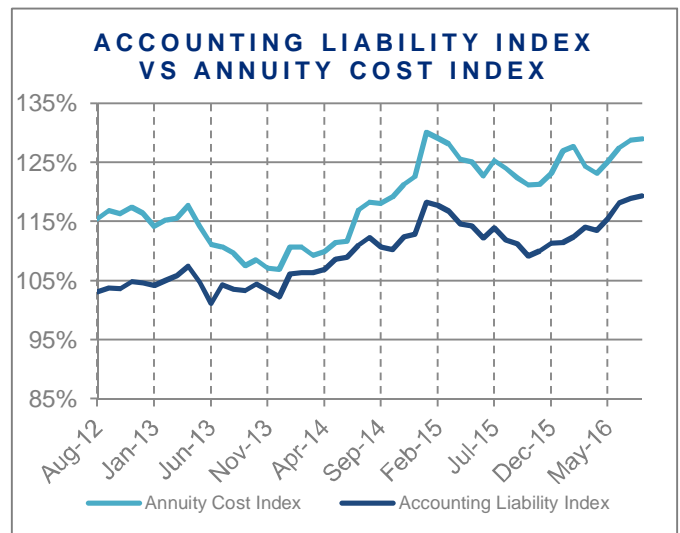
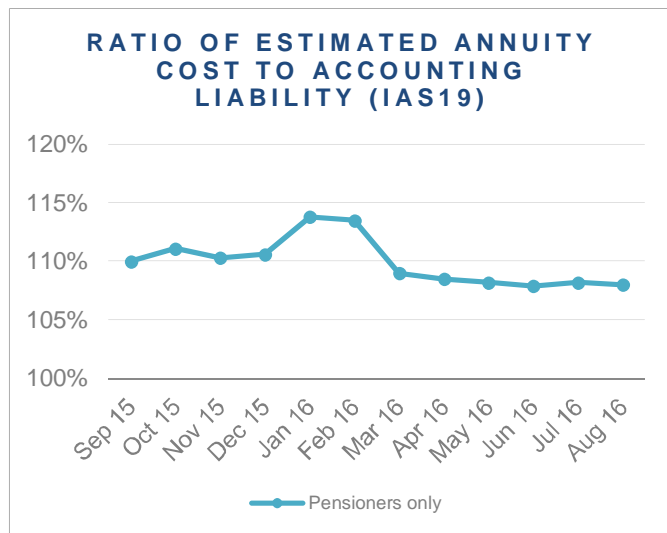
reasons for this decrease is the expanded Quantitative Easing program of the European Central Bank, which now also includes corporate bonds.

The buyout cost compared to the funding liabilities was relatively stable during 2015 and the first half of 2016. The only significant change was seen in July 2015 which was due to a change in the Ultimate Forward Rate (UFR) used to produce the yield curve (as published by the Dutch Central Bank) to be used by pension funds. Due to the decrease in discount rates in 2016, the UFR effect increases, hence the upward sloping ratio of annuity cost (based on mark-to market pricing) and funding liability (based on yield curve including UFR)

Within the Netherlands a new pension vehicle has been introduced, the so-called “Algemeen Pensioenfonds”, which could open up new possibilities to secure buyouts. One of these funds has now received its license to operate from the pensions regulator. A further 5 to 7 parties have applied for a license.

## CANADA

The charts track the movement in the cost of a group annuity as a percentage of the associated accounting liabilities for a representative sample group of retirees.



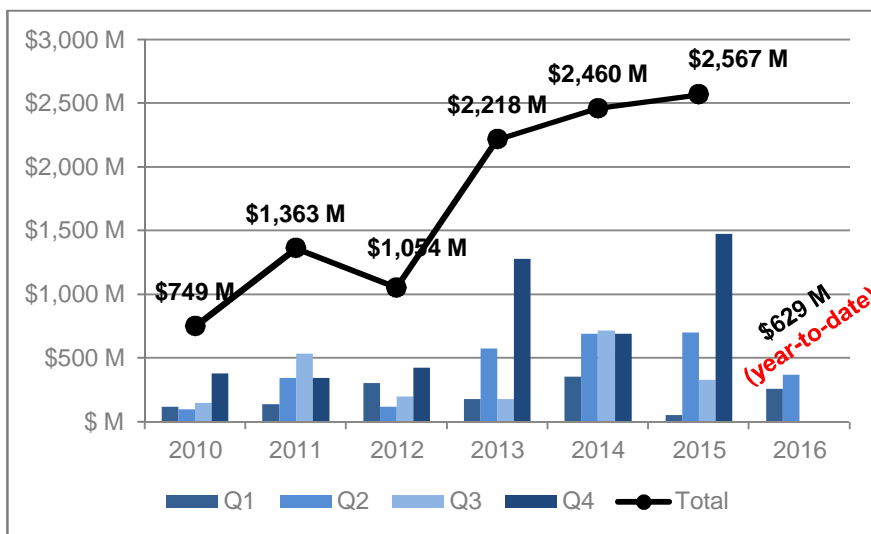
During August 2016, the Index decreased slightly from 108.2% as at the end of July 2016 to 108.0% by the end of August. This implies that, at the end of August 2016, the cost of settling obligations through the purchase of annuities was approximately 8% higher than the accounting liability.

It is also important to consider the absolute cost of settling plan obligations. This can be best accomplished by looking at the movement of each component of the index in isolation. To do so, we look at the yields of long-term government bonds, which drive annuity pricing, and compare them to the yields on AA corporate bonds, which are used to calculate accounting liabilities.

In the month of August, yields on corporate bonds backing accounting liabilities decreased by approximately 5 basis points while yields on long-term federal bonds, which are assumed to back annuity purchases, decreased as well but only by a single basis point. These movements in yields led to an increase in both accounting liabilities and annuity costs. However, given the larger decrease in corporate yields, the gap between the accounting liability and annuity cost narrowed resulting in a decrease in the Index of 0.2%.

## CANADA MARKET NEWS

With C\$629 million in annuities having been placed through the end of June, the group annuity market in Canada had a modest first half of the year. However, third quarter activity has increased tremendously. Mercer alone consulted on nearly C\$500 million from the beginning of July to the end of September. With a strong end to the year, the Canadian group annuity market could once again challenge for a record volume. Ultimately, the final amount will depend on the closing rate of some of the larger deals currently in the pipeline.



[Mercer Pension Risk Exchange®](#), just reached two milestone achievements in late September, having the 100<sup>th</sup> plan join the platform and surpassing the US\$15 billion mark for total premiums executed. Please see the infographic at the end of this report for more information.

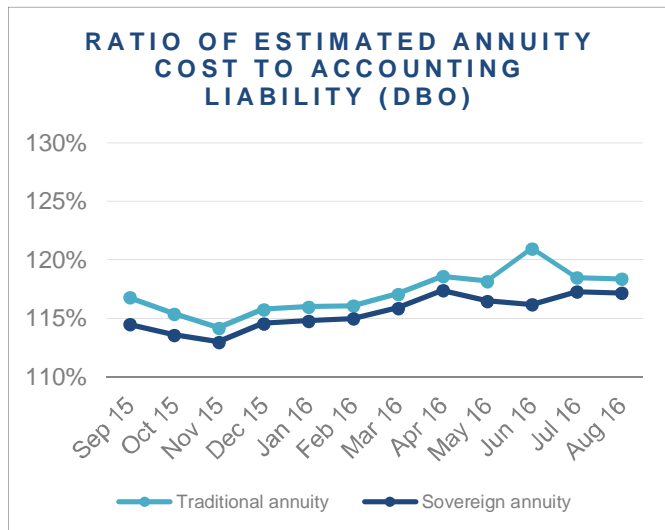
## NOTES

The Index is based on an estimate of settling non-indexed pension obligations through the purchase of annuities and an accounting discount rate based on a proprietary model developed by Mercer to assist our clients with selection of the discount rates used for the purpose of corporate financial reporting. It is provided for a sample group of non-indexed retired members and is only intended to illustrate general trends. The actual premium can vary significantly for individual plans based on a number of factors that may include:

- The plan's benefit structure and timing of its anticipated benefit payments.
- The demographic profile of the plan's participants.
- Market conditions prevailing at the time benefits are distributed and annuities purchased.
- Insurer appetite and capacity for a transaction.
- Which employees, if any, receive and accept an offer to take a lump sum instead of an annuity.

## IRELAND

The chart shows the relative cost of a buyout of pensioner liabilities of a sample defined benefit plan versus the equivalent liabilities on a company accounting basis.



At the end of August 2016, if the Plan had accounting liabilities in respect of pensioners only of €100 million, the cost of a traditional annuity would be broadly €18 million higher.

At the end of August 2016, if the Plan had accounting liabilities in respect of pensioners only of €100 million, the cost of a sovereign annuity would be broadly €17 million higher.

## IRELAND MARKET NEWS

Bond yields in core Eurozone countries increased marginally over the month of August 2016; leading to a slight decrease in the cost of buying out pensioner liabilities. Corporate bond yields, which drive the equivalent accounting liabilities, remained largely unchanged over the month. The discount available via the purchase of sovereign annuities (where payment terms are subject to the performance of the reference bonds underlying the contract), versus conventional annuities also remained unchanged over the month. Activity in the bulk buyout market in Ireland is driven by the winding up of pension plans which, under Irish legislation, requires the buyout of pensions in payment.

August 2016 proved to be a largely neutral month for pension schemes on the asset side with marginal positive returns on equity portfolios largely offset by negative returns on core government bond portfolios.

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## NOTES

The index is provided for a sample mature pensioner population and is indicative only. The benefits secured (and valued as an accounting liability) are flat pensions, with no increases in payment.

The price differential identified above will also be affected by the nature of the assumptions adopted for the accounting disclosures.

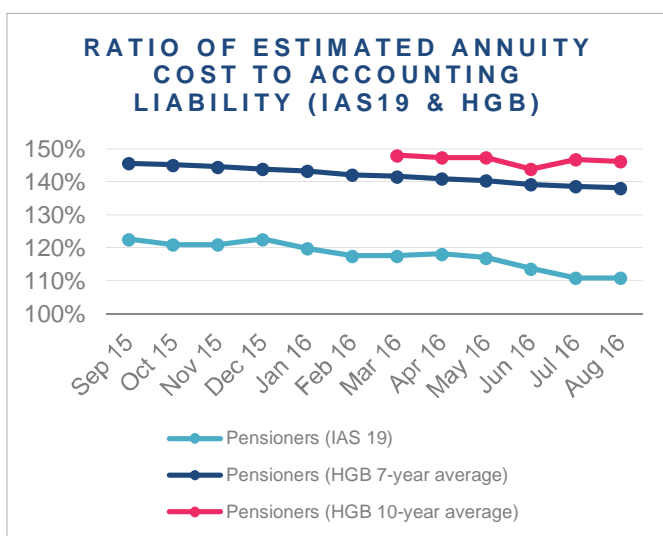
The accounting liabilities are valued using the Mercer Yield Curve, which is used by leading Irish and multinational companies to set their discount rate for accounting purposes.

The index does not make any allowance for buyout costs for active or deferred members.

A sovereign annuity differs from a traditional annuity in so far as it is linked directly to reference bonds that back the contract. Importantly, this means that pension payments will be reduced in the event of non-performance of some or all of the underlying reference bonds. This transfers the credit risk to the annuitant.

## GERMANY

The chart focuses on transactions in which the underlying benefit payment is reinsured for a group of retirees, but does not include additional potential liabilities from inflation indexation. It is built on a sample retiree population and compares the accounting liabilities against the insurance premium in a buyout / buy-in transaction. The pricing for the insurance policies is based on a 1.25% p.a. guaranteed rate of return (1.75% p.a. dates prior to 01/01/2015) whereas the discount rate is based on a liability with a 10 year duration.



At the end of August 2016, if the plan had accounting liabilities under local German GAAP (HGB) in respect of all members of €100 million, the buyout cost would be broadly €46 million higher using the 10-year average rate and broadly €38 million higher using the 7-year average rate.

If the plan had accounting liabilities under international accounting standards (IFRS) in respect of all members of €100 million, the buyout cost would be broadly €11 million higher.

## GERMANY MARKET NEWS

- Benefit obligations of the 30 DAX companies reached a level of €350 billion at the end of 2015.
- The fair value of the corresponding plan assets was €230 billion at the end of 2015.
- There has been an improvement in the DAX funding position since the end of 2015.

A bill that includes a modification of the method for determining the discount rate used for pension valuations under German-GAAP (Generally Accepted Accounting Practice) recently passed parliament. The law took effect on 1 March and is binding for all balance sheet dates in 2016. Companies with a balance sheet date of 31 Jan 2016 will have already closed their books but their annual financial statement – which is usually finalized at a later date – will have to comply with the new rules. If the financial year begins and ends in 2015, the new legislation can be applied voluntarily.

The new rules require companies to use a rolling average period of 10 years that will result in a reduction of the reported pension liabilities at the time of the change – previously a seven year rolling average of market rates was used.

Generally, larger organisations prefer funding through so-called Contractual Trust Agreements (CTAs), but buy-in solutions for annuities are also becoming more common. However, there remain a large proportion of companies with unfunded pension arrangements – with pensions being paid from operating cash flow. Alternatives to funding are also being considered to reduce benefit obligations, for example by changing the plan design or by including lump sum options.

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#### NOTES

The illustrations are based on values used by German life insurers, public information and a representative sample of a retiree population.

The performance of the Index reflects the changes in the valuation-related discount rates and the underlying rates used by German life insurers.

Due to the applied approximation method the Index is not suitable for any company - and plan-specific pricing.

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# MERCER PENSION RISK EXCHANGE™

## A GROUNDBREAKING APPROACH TO PENSION RISK MANAGEMENT

Many defined benefit plans are now closed to new employees, but these plans still represent significant obligations for the company to manage alongside its on-going business. In addition to the company specific situation, economic factors are also driving up the demand for annuity transactions; however, the annuity marketplace can be hampered by long execution timelines and lack of price transparency. A plan sponsor requires robust information on the financial position of the company's pension plan, needs an understanding for how key financial metrics are developing over time, and values customized pricing information. This information must be accurate, up-to-date, and easily accessible.

### CURRENT BULK ANNUITY MARKET CHALLENGES



#### UNPREDICTABLE MARKET

Each deal is unique and attracts different insurers. Deal pricing can vary dramatically



#### PRICE VOLATILITY

Pricing fluctuates over time but is not visible to plan sponsors.



#### LACK OF PRICING TRANSPARENCY

Obtaining a price can be difficult and time consuming. Plan sponsors often don't know the price at which they should execute an annuity transaction.

### MERCER PENSION RISK EXCHANGE™

#### WHAT IS IT?



Access to regular pricing from insurers in order to assess the true market price of a deal.



Helps sponsors execute a deal in a more competitive price environment and in a shorter time frame than is currently possible.



Allows plan sponsors to prepare data and documents in advance, enabling them to proceed quickly when the time is right.



Online and mobile-optimized solution that gives sponsors and trustees access to valuable information anytime and anywhere.

#### WHAT IS IT FOR?



#### PLAN TERMINATIONS

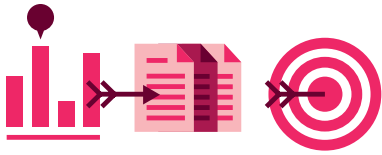


#### BUYOUTS



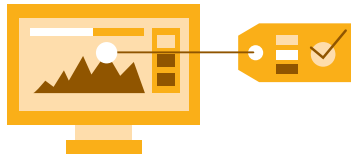
#### BUY-INS

## HOW DOES IT WORK?



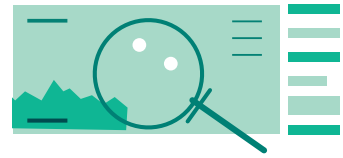
### READINESS

Mercer's systematic and disciplined approach finalizes all data and documents well in advance of the transaction, enabling swift execution. We advise on target price levels and plan metrics that should be monitored, and we establish triggers upon which to act.



### DYNAMIC MONITORING

Our pricing platform allows insurers to submit regular bids for specific plans. This enables sponsors to continuously monitor their unique price and specific plan metrics and to execute when market conditions are optimal.



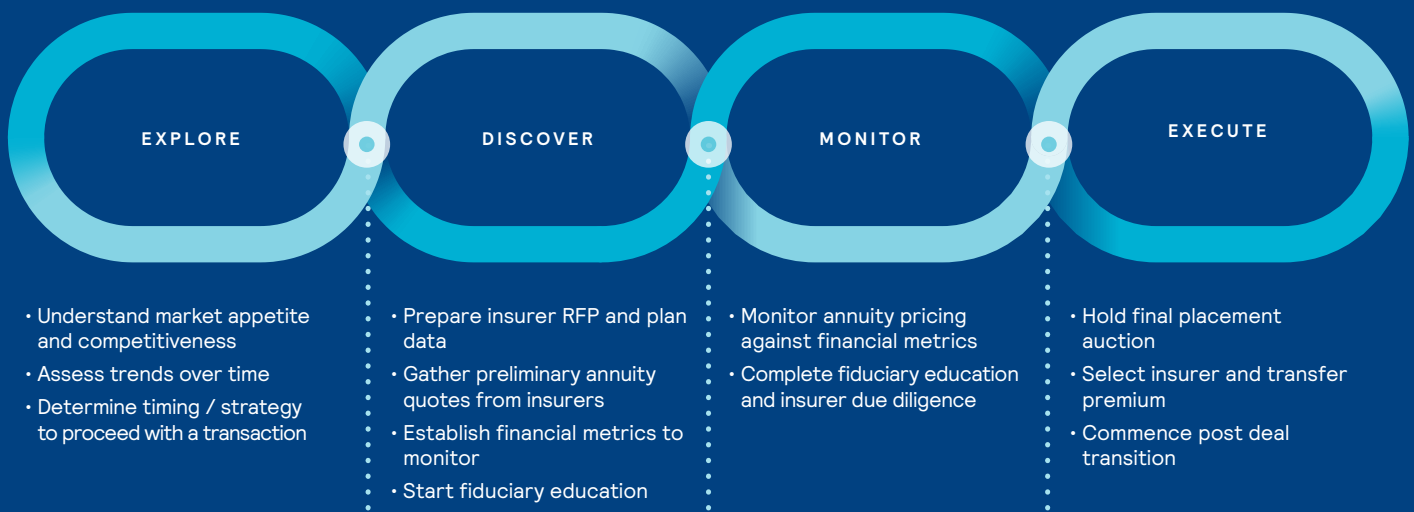
### EXECUTION SUPPORT

Provides fiduciary training and insurer due diligence to support the final auction, insurer selection, and transition of responsibilities to the insurer, all while enhancing participant security.

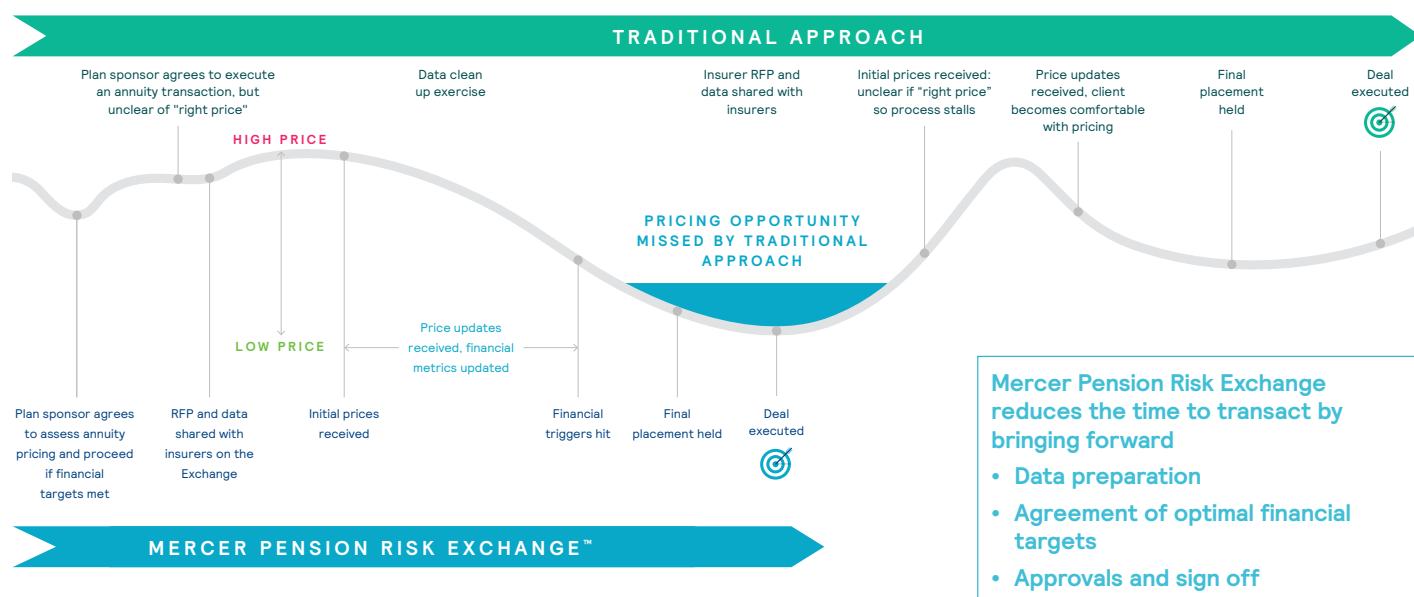
## MERCER PENSION RISK EXCHANGE™ SUPPORTS YOU THROUGH EACH STEP OF THE ANNUITY PLACEMENT PROCESS

### MERCER PENSION RISK EXCHANGE PROCESS

There are four components of the process. We work with clients to understand the services that are most applicable to their current situation, and timeline to execute a transaction. Our approach provides increasing financial certainty as a client moves through the purchase process.



## TIMELINE



## IMPORTANT NOTICES

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