

## Life Conference 2022

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## The transfer market

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#### **Speakers**



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#### Transfer value – regulatory definition

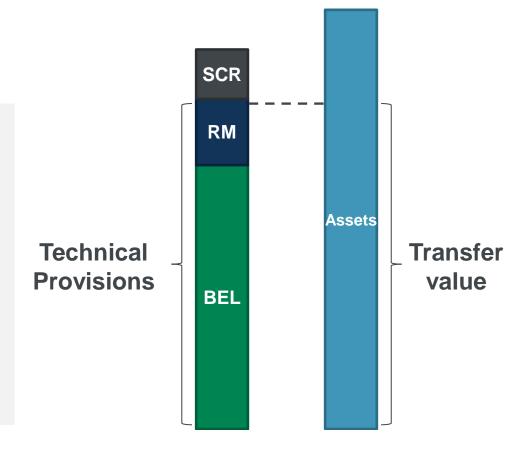
#### **Solvency II Directive**

#### **Article 76 (2)**

The value of **technical provisions** shall correspond to the current amount insurance and reinsurance undertakings **would have to pay** if they were to **transfer** their insurance and reinsurance obligations immediately to another insurance or reinsurance undertaking.

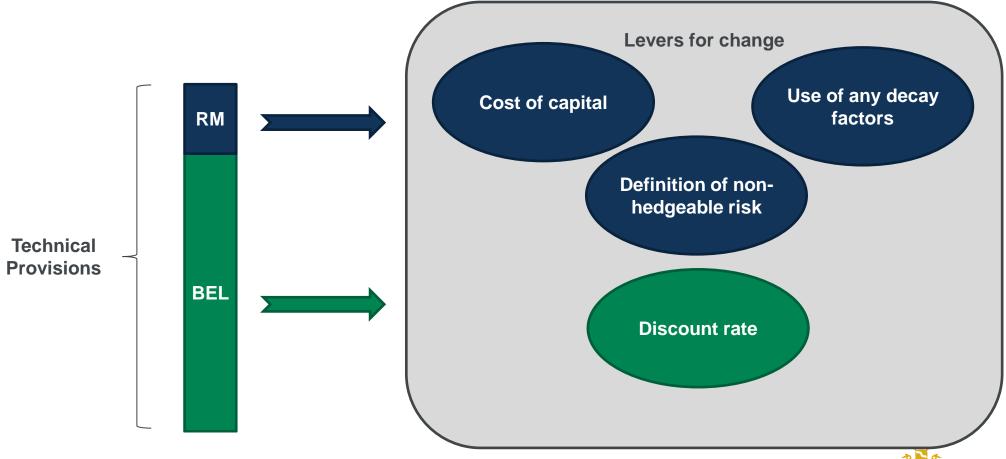
#### **Article 77 (3)**

The risk margin shall be such as to ensure that the value of the technical provisions is equivalent to the amount that (re)insurance undertakings would be expected to require in order to take over and meet the (re)insurance obligations





#### Transfer value – Solvency II reforms



Trying to calibrate the Technical Provisions based on the concept of a transfer value is inherently challenging

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#### A range of transfer mechanisms

There are a **number** of ways in which life insurance business could change hands:



Each one of these would require the computation of a "transfer value" given that they involve some form of transfer of economic and/or non-economic interest or ownership in the underlying book.

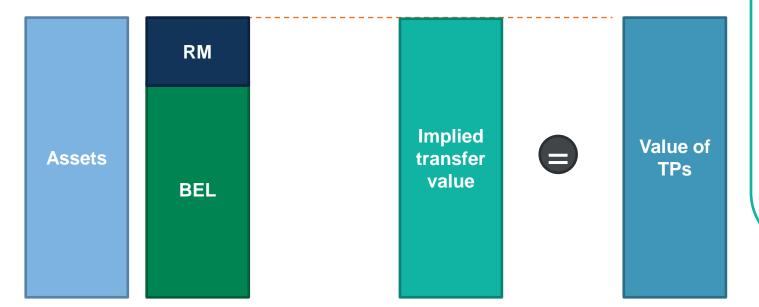
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#### M&A: Transfer value vs technical provisions

Hypothetical scenario where no Own Funds are included in the transaction

Net assets of buyer and seller remain unchanged

Price paid = 0



#### **Key Observations**



Only the TPs and assets backing the TPs are sold. Net assets remain unchanged and there is no transaction price.

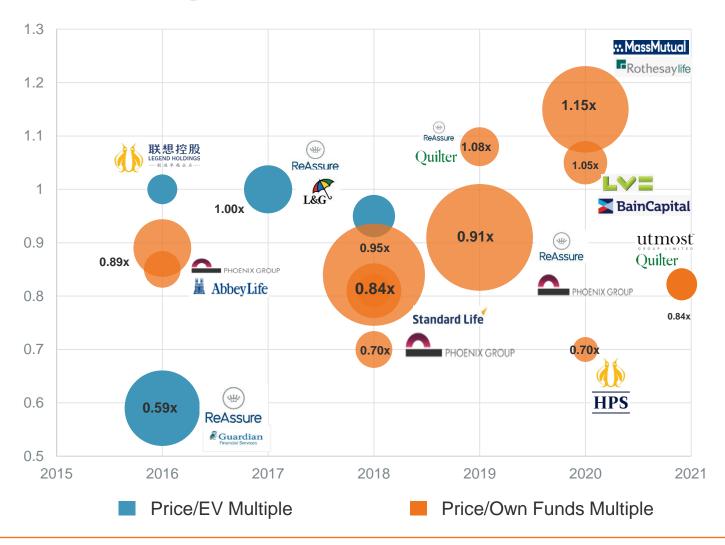


In this scenario, the principles of the "transfer value" as described by the regulations are met, i.e. transfer value equals the value of the TPs



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#### M&A: Multiples of Own Funds in recent UK transactions



Multiples are calculated as:

## Transaction price Own Funds

- Recent deals traded at a slight premium to OFs
- Larger more complex deals tend to trade at a discount
- There is a range and there are significant impacts from various factors

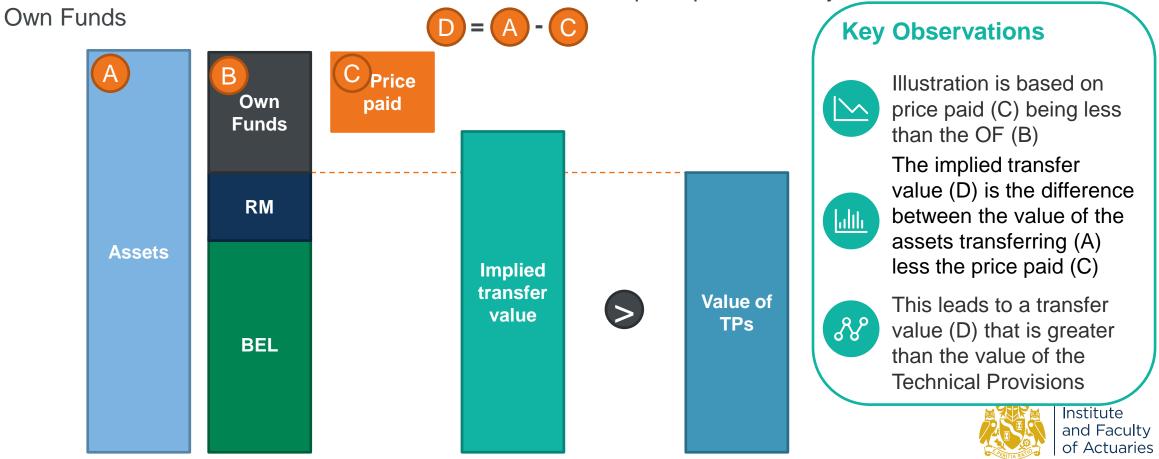


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## M&A: Transfer value vs technical provisions (2)

In the case where the transaction includes Own Funds, the price paid will likely not match the value of the



#### Transfer value vs technical provisions



#### Level of transfer value vs technical provisions

- The transfer value is driven by the transaction price
- As the transaction price does not often correspond to the value of the OF, the implication is that the transfer value is often not equal to the Technical Provisions





- When the Treasury and PRA released their Consultation<sup>1</sup> and Discussion Paper<sup>2</sup> respectively, the aim was to recalibrate the following areas to be a better reflection of observable transfer values
  - Risk Margin
  - Fundamental Spreads used in the Matching Adjustment calculation
- However, doing so was subject to challenge because:
  - Calibrations were based only on longevity risk transfers
  - We will further explore why basing a calibration on transfer values is challenging

<sup>1</sup>April 2022, HMT consultation: <a href="mailto:20220328\_Review\_of\_Solvency\_II">20220328\_Review\_of\_Solvency\_II</a> Consultation.pdf (publishing.service.gov.uk)

<sup>2</sup>April 2022, PRA's Discussion Paper: <u>DP2/22 – Potential Reforms to Risk Margin and Matching Adjustment within Solvency II | Bank of England</u>



#### M&A deal pricing methodologies

Deal pricing mechanisms have evolved over time with most prevalent metric at present being the DDM

Modified
Own Funds

Starting point for deal pricing (until recently)

**Value** 

- TEV -> EEV -> MCEV
- Post SII, most firms stopped producing EV

- Considered when SII came into force
- Focus on a small number of adjustments to regulatory position
- Produces a more economic view of the Own Funds

Dividend

Discount Model
(DDM)

- <u>Now</u> commonly used in deal pricing
- Based on the ability to extract the value out of the business through dividends
- Requires projections of both Own Funds and SCR
- Allows for cost of capital and real world upsides



#### **Modified Own Funds**

Modified Own Funds attempt to remove some of the regulatory prudence embedded under Solvency II



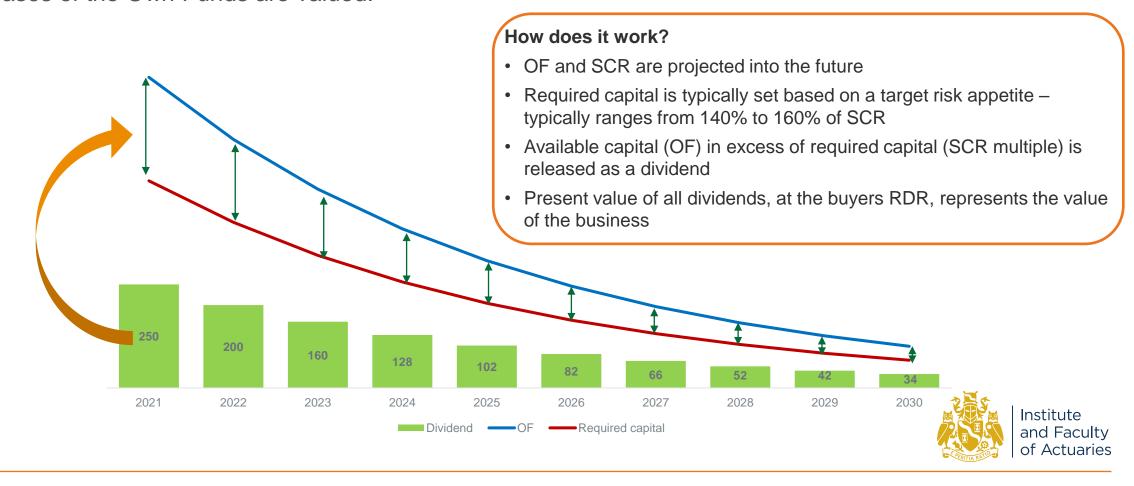
#### ... but Modified SII Own Funds doesn't:

- Reflect buyer's required rate of return as it is a risk neutral measure
- Explicitly allow for cost of capital (could argue Risk Margin does this implicitly)
- Reflect real world returns
- Provide a view of the dividend profile



#### Discounted dividend model (DDM)

The DDM method requires the Solvency II balance sheet to be projected. The quantum and timing of releases of the Own Funds are valued.



#### Discounted dividend model (DDM) – value drivers

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#### Model portfolio

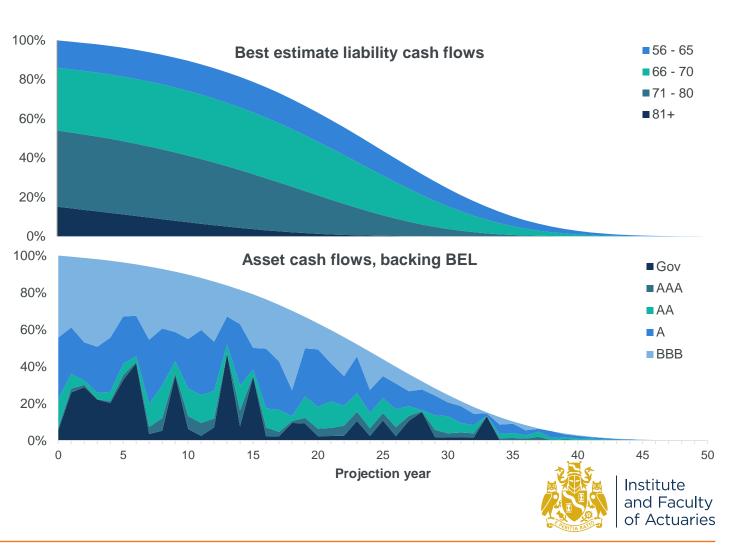
Model portfolio of **annuity liabilities** and backing assets.

**Exploratory exercise** to assess the use of a DDM in deriving transfer values.

Annuity portfolio split by policyholder age, and runs off gradually over time.

Assets perfectly **cash flow match** our annuity liabilities, and mature over the projection period.

We also hold assets in **excess of BEL**, to back our RM, SCR and target buffer.



## **DDM** worked examples

Balance Sheet	1	2	3	4
Technical Provisions	153.7	150.6	146.6	142.1
BEL	150.1	147.0	143.2	138.7
RM	3.6	3.5	3.4	3.3
Assets	170.7	167.1	162.8	157.8
Own Funds (SoP)	16.9	16.5	16.2	15.7

Cash Flows				
Return on Own Funds	0.6	0.6	0.6	0.6
Release of prudent margins	0.5	0.4	0.4	0.4
Finance costs	-0.3	-0.3	-0.3	-0.3
Expense synergies	-	-	-	-

Distributions				
Own Funds (EoP) pre-distribution	17.6	17.2	16.9	16.4
Distribution to owners	1.1	1.1	1.1	1.2
Own Funds (EoP) post-distribution	16.5	16.2	15.7	15.3
SCR	8.3	8.1	7.9	7.6
Target coverage	200%	200%	200%	200%



...<- PV @ 15% IRR: 8.9

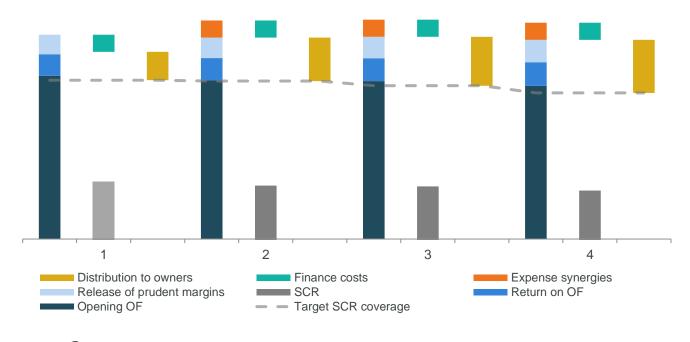


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SCR	8.3	8.1	7.9	7.6
Target coverage	200%	200%	200%	200%



...<- PV @ 15% IRR: 10.2



#### **Sensitivities**

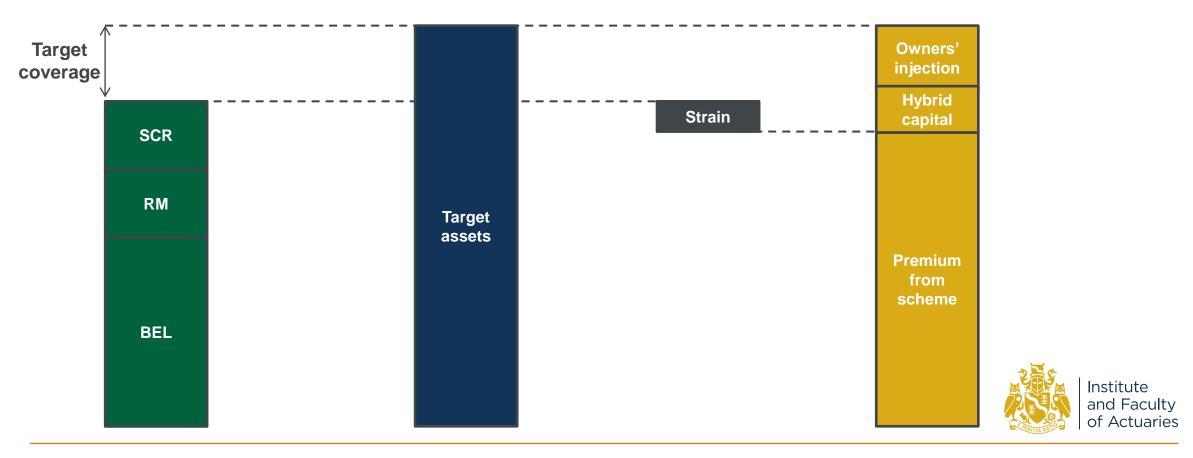
By adjusting the input variables, we can use the model to derive the **valuation** under various scenarios:

Scenario	Valuation
Base	8.9
Expense synergies	10.2
Increased finance costs	5.4
IRR +2.5%	7.6
IRR -2.5%	10.6



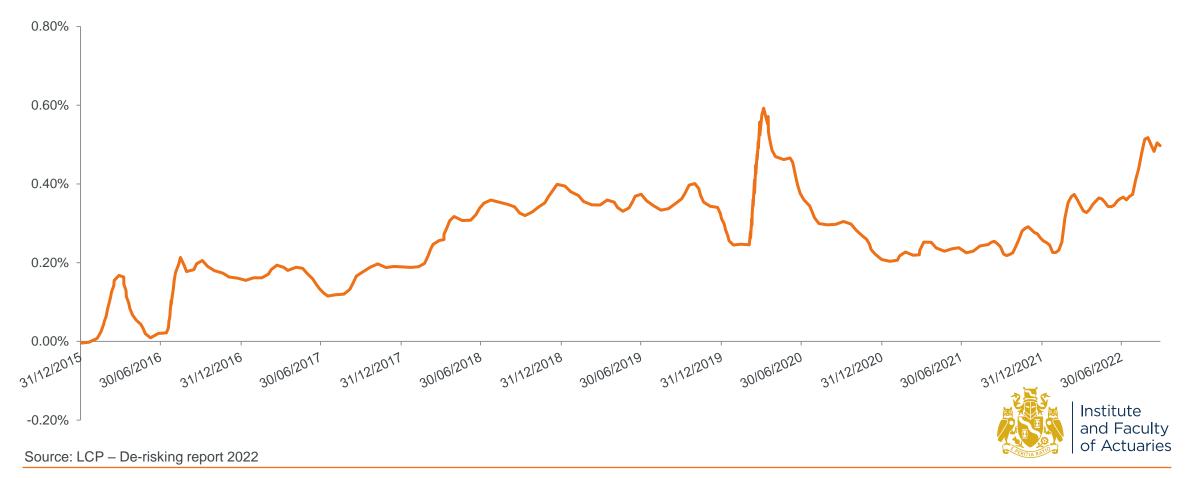
#### **Bulk annuity deal**

From the **owners' injection, hybrid capital** and **target coverage**, we can derive the **premium received**.



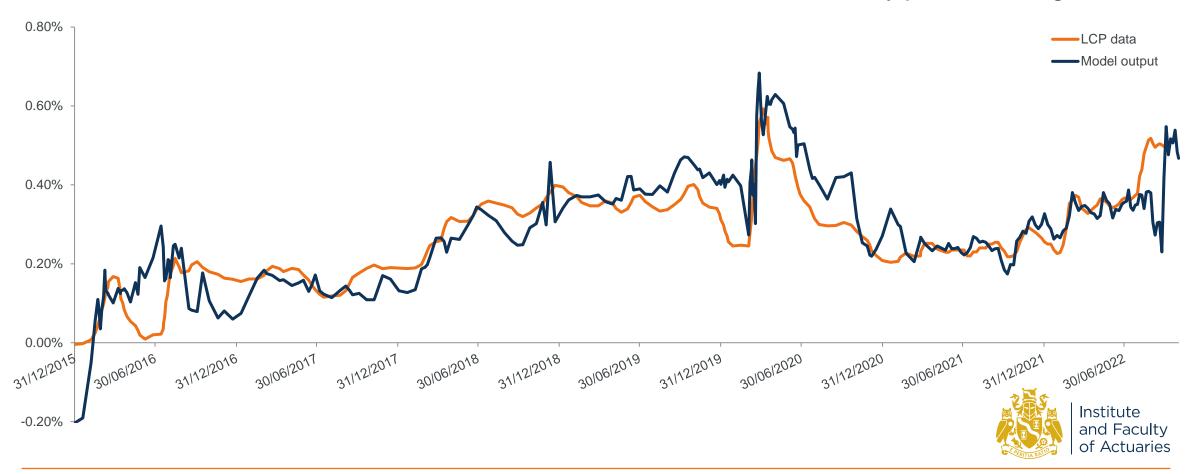
## Historical bulk annuity pricing

LCP has published historical "transfer values" for BPA transactions, expressed under a "gilts plus" approach:



#### **Deriving the transfer value**

We used our illustrative model to calculate the **transfer value** of our model annuity portfolio through time:



#### The transfer window

We calculated the transfer value under a scenario in which the business is transferred to a Bermudian insurer:

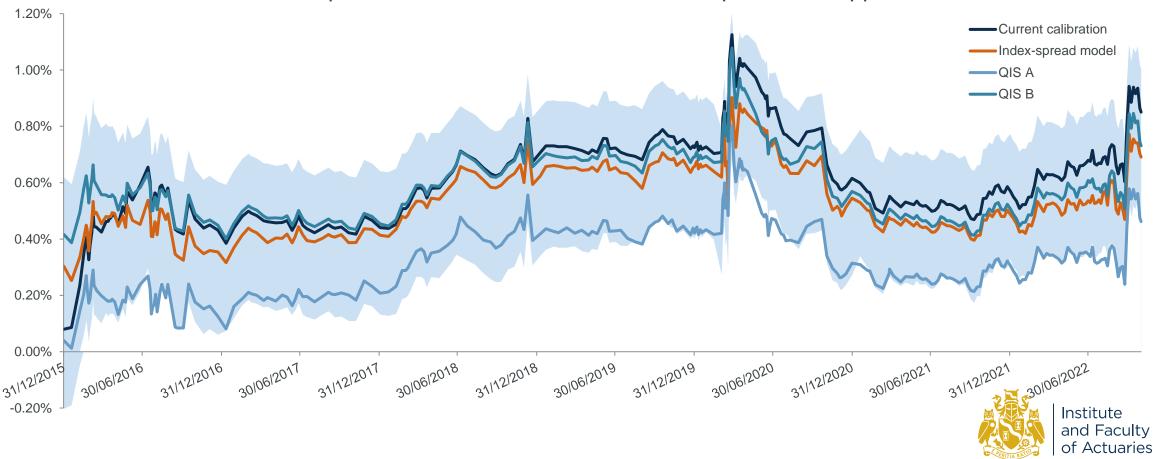


Source: https://marketinsights.natwest.com/s/shared-article?a=MWkwMDAwMDBVTIISQUE0

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#### **Technical provisions**

Per our illustrative model, four potential calibrations of the technical provisions appear to sit within our "window":



#### So what?



#### **Transfer values:**

- Linked to derivation of the transaction price/price paid, can be derived in a number of ways
- Will be highly idiosyncratic and reflects details specific to particular deals
- Therefore can take a potentially wide range of answers



#### **Solvency II reforms:**

- Treasury's response to the consultation is one of pragmatism around the changes to MA
- Argument for recalibrating the TP components to observable transfer values is presumed to fall away
- The Treasury will review whether the FS remains appropriate in 5 years' time
- So the question is, might we see a revisit of the recalibration of Technical Provisions in line with observable transfer values?

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## Questions

## Comments

Expressions of individual views by members of the Institute and Faculty of Actuaries and its staff are encouraged.

The views expressed in this presentation are those of the presenter.



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