

2018 Investment Symposium

Session 2B: Pension Risk Transfer from the Insurance Company's Perspective

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2018 Investment Symposium

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Session 2B, Pension Risk Transfer

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Today's Session

- We'll focus today on pension risk transfer in the \$3T corporate pension market
- Significant differences between employer plans and insurer contracts
 - Funded Status
 - Asset Allocation
 - Backstop
- Generally two types of pension risk transfer
 - Plan termination
 - Carve out
- Premium payment can be
 - All cash
 - Combination of cash and assets-in-kind (AIK)
- After a brief market overview, we'll focus on the portfolio considerations for a sponsor executing a pension risk transfer

Source: Milliman 100 Pension Funding Index.

Drivers of the Pension Risk Transfer Market

Consistent

- Size of pension plan/unfunded liability versus market cap
- Funded status volatility
- DB plan freezes/closings
- M&A activity

Recent

- PBGC premium increases make small benefit retiree transactions attractive
- Borrowing to fund makes PRT more affordable

New?

- Tax reform may spur PRT activity as funded status improves
 - Reduction in corporate tax rates makes funding for 2017 Plan Year attractive
 - Repatriation of overseas cash may be used to improve funded status

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Pension Risk Transfer Market Size

United States Single Premium Buy-out Sales (billions)

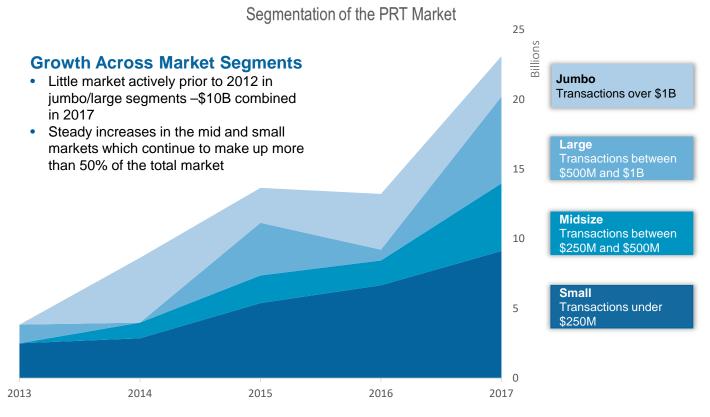


LIMRA Group Annuity Risk Transfer Survey, 4Q 2017. Based on sales of single-premium buy-outs.

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Where is the growth coming from?





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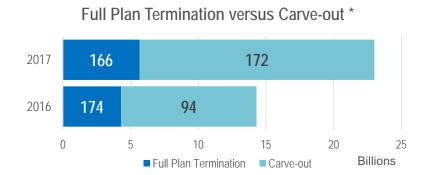
Key Competitors and Transaction Strategy

Insurer Market Share in 2017

Named insurers exceeded \$2B in sales



- 12 insurers participated in the PRT market in 2017
- 6 insurers exceeded \$2B in sales
- Market growth has attracted several new entrants over the past few years



- Retiree carve-outs have become increasingly popular
- There is a continuous level of plan termination activity which seems to be moving toward larger sponsors
- One sponsor concern is placement of deferred liabilities as there appears to be some limit to insurer appetite

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^{*} Based on transactions brought to Prudential that exceed \$10M

If Pension Risk Transfer is on the Horizon

Know Your Target

- Initial Price Discovery
- Work with advisor to structure determine transaction population and target price

Begin Internal Dialog

- Articulate objectives internally
- Develop work plan and delegate authority to act

Prepare Assets and Data

- Scrub data for target population
- Complete mortality study
- Begin process of transitioning the asset portfolio





2018 Investment Symposium

WAYNE DANIEL

Session Number, Session Title

8th March 2018





Assets-in-Kind (AIK), as a means of funding Pension Risk Transfers (PRT)

WAYNE DANIEL

8th March 2018





Increasing usage of AIK to fund PRT

AIK: The premium for the annuity is paid by transferring ownership of some or all of the plan's eligible assets to the insurance company instead of cash

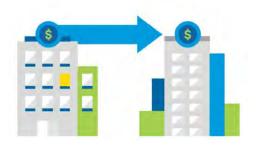




Increasing usage of AIK instead of cash to fund PRT LDI usage by pension plans facilitates AIK



AIK usage



51% of sponsors more likely to select an insurer that allows the premium for the annuity to be paid with assets-in-kind

76% of plans using Liability Driven Investments (LDI)

Source: The MetLife 2017 Pension Risk Transfer Poll and other industry surveys on LDI



Mechanics of AIK



Universe of Available Assets



Selection of Acceptable Assets



Review of Assets



Regulatory Approval



Mechanics AIK (cont)



Agreement on Asset Valuation



Custodial Account



Transitional Arrangements



Closing, and Market
Movements



Insurer Perspectives on Asset Types

Public Fixed Income

Alternative Assets and Real Estate Equity

Privately Sourced Fixed Income

Assets Generally Not Preferred



Benefits of Asset-in-Kind Transfers

- Better Pricing
- Reduced transaction costs
- Minimizes ALM mismatches







Concurrent Session 2B:

Pension Risk Transfer from the Insurance Company's Perspective



Learning Objectives

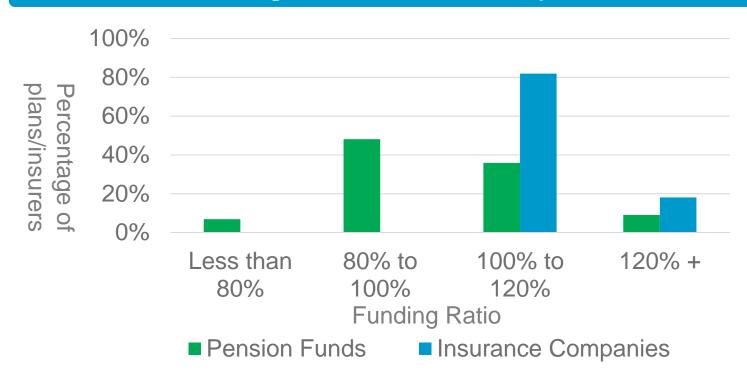
	Learning Objective	Key Learnings	Agenda Items
1	Regulatory Regimes	Comparison of pension and insurance regulatory regimes and implications for investing	A. Funding & Capital B. New Rules
2	Pension Investing	Implications of disparate regulatory regimes on pension investing	A. Asset Allocation B. Credit Quality C. Spread
3	Tax Reform	Implications for Insurer PRT Investing	A. Asset Prices B. Capital Requirements C. Offshore Strategies

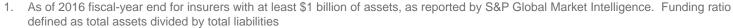


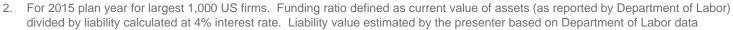
1 Regulatory Regimes A Funding & Capital

Insurance regulations impose stronger funding requirements than pension regulations

Distribution of Funding Ratio; Insurance Companies¹ vs. Pension Funds²









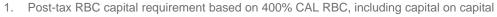
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1 Regulatory Regimes A Funding & Capital

The insurance capital regime is more risk sensitive than the pension capital regime

Capital Charges; Insurance Companies¹ vs. Pension Funds²

		INSURANCE COMPANIES		PENSION FUNDS	
ASSET CLASS		Capital Required to Maintain 400% RBC Ratio ¹	Excess spread (bp) to achieve 15% IRR ²	Required Capital	Excess spread (bp) to achieve 15% IRR
Bonds	Treasuries	0%	1	0%	1
	A – AAA Credit	1.2%	23	0%	1
	BBB Credit	4.0%	74	0%	1
	BB Credit	15.7%	259	0%	1
CMLs	Low-risk CML	2.7%	51	0%	1
	Medium-risk CML	5.4%	99	0%	1
Equities	Equities	354.5%	1,482	0%	1



^{2.} Pre-tax excess spread required to achieve 15% after tax cost of capital



1 Regulatory Regimes B New Rules 5

VM-22 did little to close the gap between insurers and pension funds on adoption of marked-to-market valuation frameworks

Balance sheet valuation basis, Insurance Companies (statutory) vs. Pension Funds (US GAAP)

Insurers (Statutory) Insurers (Statutory) post Pension Funds pre VM-22 VM-22 (US GAAP) • GAR 94 Initial • GAR 94 Typically linked to RP-2014 Assumption Mortality Locked-in Updated each Annual Locked-in **Updates** year Initial Average rate in Average rate in quarter Rate on Determination prior to issue date measurement date year prior to issue date For jumbo cases, rate Date on issue date Interest Rate **Initial Tenor** Single rate for all 4 duration buckets Cashflow matched to liability cases Locked-in Annual Locked-in Updated each



Update



year

1 Regulatory Regimes B New Rules 6

Pension accounting has continued to progress towards a marked-to-market framework

		Pre-FAS 87	FAS 87	FAS 158	Update 2017-07
	Year effective	Pre-1987	1987	2007	2018
	Balance Sheet	Cash	Smoothed	 Marked-to- market 	Marked-to- market
	Operating Income	• Cash	 Smoothed 	Smoothed	 Marked-to- market
Income Statement	Net Income				• Smoothed
	OCI			 Marked-to- market 	 Marked-to- market

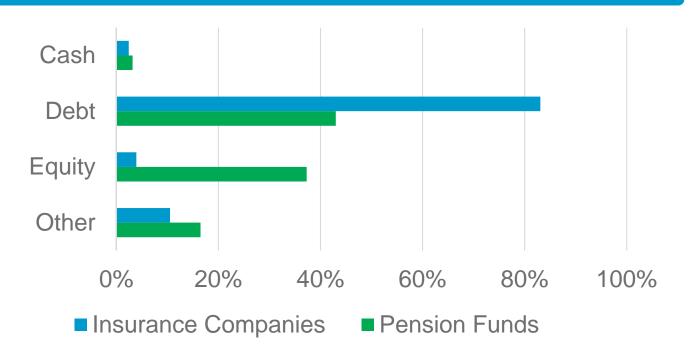




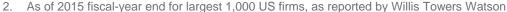
2 Pension Investing A Asset Allocation 7

Heavy capital requirements for risky assets have pushed most US insurance companies into conservative asset allocations

Asset Allocation, Insurance Companies¹ vs. Pension Funds²



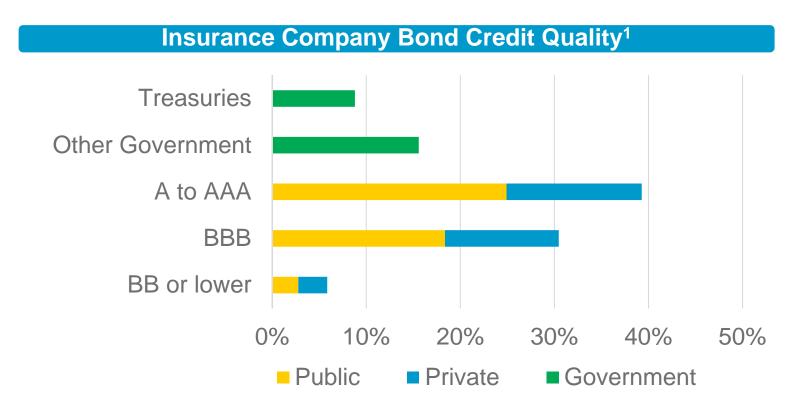






2 Pension Investing B Credit Quality 8

Book value accounting allows US insurers to invest in BBB bonds without reflecting spread volatility on their balance sheet





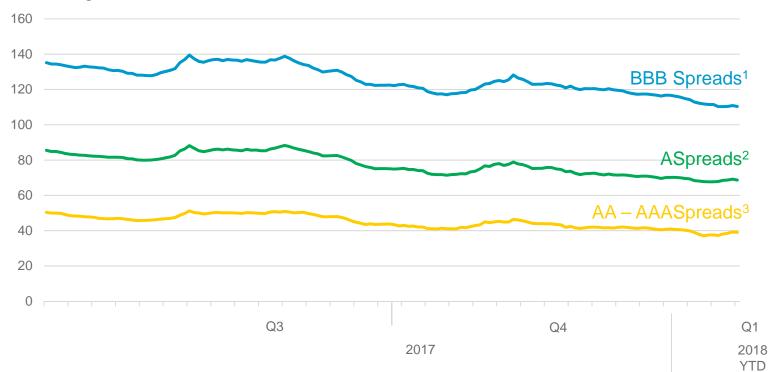


2 Pension Investing C | Spread 9

Tightening spreads have pushed insurers to consider alternative asset classes

Corporate Spreads

7/1/2017 though 1/22/2018



- 1. Bloomberg (US Credit 5-10 Yr Baa)
- 2. Bloomberg (US Credit 5-10 Yr A)
- 3. Bloomberg (US Credit 5-10 Yr AA-AAA)



3 Tax Reform

Tax reform presents several risks to insurance company investing

		Risk	Potential Mitigants
A	Spread Tightening	 Reduction in tax-incentive for debt may reduce debt issuance and therefore spreads 	 Search for spread in other asset classes Increase allocation to treasuries to reduce capital charge
В	Increased Capital Charge	 NAIC may increase capital charge on assets due to lower "tax-effect," depressing RBC ratios 	 Strengthen credit quality of investment portfolio to reduce capital charge Raise additional capital Allow RBC ratio to drop
С	Threat to Offshore Strategies	 New "BEAT" tax on offshore reinsurance may undermine strategies that leverage offshore affiliates to keep exotic investments outside of NAIC capital framework 	 Keep business onshore and invest in NAIC-friendly asset classes Leverage offshore reinsurance with unaffiliated insurers Restructure offshore treaties to avoid BEAT

