

# Retirement Goes Goldilocks: The DC'ing of DB Plans and the DB'ing of DC Plans

The banner features a blue background with a pattern of white stars. On the left, there is a vertical strip showing the dome of the U.S. Capitol building. The text "AMERICAN ACADEMY of ACTUARIES" is in a serif font, with "of" in italics. Below it, "Annual Meeting and Public Policy Forum" is in a larger, bold serif font. To the right, the year "2016" is written in a large, light blue, sans-serif font. At the bottom left, the date and location "NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C." are in a small, white, sans-serif font. At the bottom right is the American Academy of Actuaries logo, which consists of three white triangles forming a larger triangle, with the text "AMERICAN ACADEMY of ACTUARIES" and the tagline "Objective. Independent. Effective.™" below it.

AMERICAN ACADEMY *of* ACTUARIES  
Annual Meeting and Public Policy Forum

NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C.



**November 4, 2016**

# Speakers

- Eric Keener
  - Chairperson, Academy PPC Forward Thinking Task Force
- Paul McCrossan
  - New Brunswick Pension Reform Task Force
- Conrad Ferguson
  - Partner, Morneau Shepell
- Stacy Schaus
  - Executive Vice President and DC Practice Leader, PIMCO

# Retirement Goes Goldilocks: The DC'ing of DB Plans and the DB'ing of DC Plans

The banner features a blue background with a pattern of white stars. On the left, there is a vertical strip showing the dome of the U.S. Capitol building. The text "AMERICAN ACADEMY of ACTUARIES" is in a serif font, with "of" in italics. Below it, "Annual Meeting and Public Policy Forum" is in a larger, bold serif font. To the right, the year "2016" is written in a large, light blue, sans-serif font. At the bottom left, the date and location "NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C." are in a small, white, sans-serif font. At the bottom right is the American Academy of Actuaries logo, which consists of three white triangles forming a larger triangle, with the text "AMERICAN ACADEMY of ACTUARIES" and the tagline "Objective. Independent. Effective.™" below it.

AMERICAN ACADEMY *of* ACTUARIES  
Annual Meeting and Public Policy Forum

NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C.



## Update on Retirement for the AGES

Eric A. Keener

# Retirement for the AGES

- In 2010, the Academy Pension Practice Council decided to:
  - Create a Forward Thinking Task Force
  - Build on ideas from the SOA's Retirement 20/20 initiative
  - Identify guiding principles for a robust retirement system
  - Introduce those principles into policy discussions
- Focuses on retirement design principles
- Does not address universal coverage or adequacy, and assumes existing Social Security program remains in place

# AGES Principles

- The AGES principles provide a framework for evaluating the effectiveness of:
  - Retirement plans and systems (both public and private)
  - Retirement income policy proposals
- Four key principles:
  - Alignment between stakeholder roles and competencies
  - Governance that manages competing needs and reduces conflicts
  - Efficiency in maximizing returns and minimizing risks
  - Sustainability of the system

# Applying the AGES Principles

- The Forward Thinking Task Force is using the AGES principles to develop assessments for various reform proposals
- Positives and negatives under each principle are weighed to develop a letter grade for that principle
- Letter grades for each principle are then weighed to develop an overall letter grade for system or proposal

# How Traditional DB and DC Plans Fare under AGES

- AGES assessments were developed for a typical U.S. single employer DB plan and safe harbor DC plan
  - Grade for single employer DB plan: C+
  - Grade for safe harbor DC plan: C
- DB plan does fairly well at Alignment and Efficiency, but not very well at Governance and Sustainability
- DC plan does better at Sustainability, but not as well at Alignment and Efficiency

# Is There a Better Way?

- To better meet the AGES principles, plans likely need to move beyond the traditional DB/DC paradigm, e.g.:
  - DB plans with risk-sharing features
  - DC plans that pool investment risk and offer lifetime income
- The New Brunswick Shared Risk Model is an example of a risk-sharing DB plan that fares well under AGES
  - Grade for New Brunswick Shared Risk Model: A-



# Next Steps for AGES

- Assessments for additional reform proposals including:
  - Bipartisan Policy Commission recommendations
  - Multiemployer composite plan proposed legislation
- Issue Brief on state-based retirement initiatives
  - Current initiatives tend to be DC; potential for DB features exists
- Learning from systems outside the U.S.
  - E.g., Australian Superannuation Scheme
- Ongoing engagement with policymakers and other stakeholders

# Retirement Goes Goldilocks: The DC'ing of DB Plans and the DB'ing of DC Plans

The banner features a blue background with a pattern of white stars. On the left, there is a vertical strip showing the dome of the U.S. Capitol building. The text "AMERICAN ACADEMY of ACTUARIES" is in a serif font, with "of" in italics. Below it, "Annual Meeting and Public Policy Forum" is in a larger, bold serif font. To the right, the year "2016" is written in a large, light blue, sans-serif font. At the bottom left, the date and location "NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C." are in a small, white, sans-serif font. At the bottom right is the American Academy of Actuaries logo, which consists of three white triangles forming a larger triangle, with the text "AMERICAN ACADEMY of ACTUARIES" and the tagline "Objective. Independent. Effective.™" below it.

AMERICAN ACADEMY *of* ACTUARIES  
Annual Meeting and Public Policy Forum

NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C.



## Risk Sharing Plan Design – Conceptual View

W. Paul McCrossan

# Changing Pension Plan Design / Regulation – Conceptual View

- Key conditions
- Understanding DB pension's real problems
- Intergenerational / Intra-generational Equity
- Process
- Principles
- Importance of Risk Management

# Key conditions for pension redesign / re-regulation

- Strong leadership is a must
  - Political
    - Premier's instructions to Task Force
      - NOT looking for “shelf improvement kit”
      - DO NOT KICK the can down the road
  - Labour and Management
- Impartial go-between person to talk to parties very helpful
- Recent ratings challenges may galvanize to action
- Honest discussion about real DB problems required
- Accept undeniable fact that:

***A DB Pension Plan's security is only as good as the ability and willingness of the funding parties to pay***

# Understanding Traditional DB Plans' Real Problems

- Assets are not matched to liabilities
  - Going concern measurement can indirectly incent to increased asset risk taking
  - Volatility is an enemy of mature plans (reverse \$ cost averaging)
- Interest rates are very low and seem to be sticky
- People live longer
- Retirement rules not keeping up with increasing life expectancy (*tax assistance neutrality*)
- When plans become too expensive, contribution deferral or reduction of future benefits seem to be preferred
- Too many opportunities for sub-groups to transfer problems to others

# Interest and Mortality Risks

- Years as co-chair of IAA Risk Measurement Task Force convinced me risks can't be managed realistically unless they are calibrated to the market
- Laurence Booth (Professor of Economics and Canada's foremost authority on equity risk premium on 2007 OTPP panel of experts) said taking account of the equity risk premium without taking account of volatility in a mature pension fund is "**crazy** finance" yet actuaries and accountants do just that
- North American pension actuaries almost forfeited their core competency (mortality) because they ignored mounting worldwide evidence of both cohort mortality improvement and high income high education super mortality improvement despite mounting international pension evidence even though insurance actuaries have recognized "super-select" mortality for 20 years

# Intergenerational/Intra-generational Equity

- Traditional solution to addressing funding challenges is to transfer the cost to future generations (i.e., younger members, taxpayers for public sector plans)
  - Problem of leverage in large, mature plan is real
  - When does the pension arrangement become so costly to future generations that TBP/DC would be better option?
  - If the plan sponsor and active plan members are not willing or able to make the necessary contributions to support the pensions that were previously understood to be guaranteed, then what?
- Increasing life expectancy provides opportunity to balance interests among DB member cohorts *and DC plan members (tax assistance neutrality)*

# Process

- Collaborative approach with some public sector unions
- All traditional alternatives considered (status quo, reduce future benefits, DC, TBP) *plus benefit security constraints*
- Over 100 costings done
- Dozens of ALM runs using various funding/spending rules
- Key conclusion favoring conversion to strongly regulated risk managed target benefit plans:

*“Conflicts between affordable, sustainable and intergenerational equity were such that absolute ‘guarantee’ of any pension outcome was unrealistic in most, if not all, circumstances.”*



# Principles – RISK MANAGEMENT ESSENTIAL HERE

Objectives/Principles	Concept
Security (tests based on future investment performance only – other risks still there)	Contributions sufficient to deliver: <ul style="list-style-type: none"><li>• high probability base benefits not reduced;</li><li>• high probability to deliver on past accrued benefits; and</li><li>• good chance to deliver on ancillary benefits</li></ul>
Sustainability	Risk management framework
Affordability	Stable contributions with modest allowed variations and <b>long term costs comparable to allowed DC limits</b>
Transparency	Members aware of the types of risks they have and their potential magnitude
Intergenerational Equity	All members share in risk in some reasonable manner on all benefits. Must stay on top of mortality.

# Importance of Risk Management

- North American pension actuaries (and regulators) are far behind the international professional knowledge curve
- Stochastic analysis has been best international actuarial practice for over 15 years
- Accounting and regulatory standards may be important obstacles to good actuarial professional practice
- Level of uncertainty of benefits should be known both to plan sponsors and to plan participants
- There are commercial stochastic analytical products on the market that have been well tested and cover national, regional and international asset categories well

# Retirement Goes Goldilocks: The DB'ing of DC Plans and the DC'ing of DB Plans

The banner features a blue background with a pattern of white stars. On the left, there is a vertical image of the U.S. Capitol dome. The text "AMERICAN ACADEMY of ACTUARIES" is in a serif font, with "of" in italics. Below it, "Annual Meeting and Public Policy Forum" is in a larger, bold serif font. To the right, the year "2016" is displayed in a large, light blue, sans-serif font. At the bottom left, the date and location "NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C." are written in a small, white, sans-serif font. At the bottom right is the American Academy of Actuaries logo, which consists of three white triangles forming a larger triangle, with the text "AMERICAN ACADEMY of ACTUARIES" and the tagline "Objective. Independent. Effective.™" below it.

AMERICAN ACADEMY *of* ACTUARIES  
Annual Meeting and Public Policy Forum

NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C.



## Risk Sharing Design – Actual Model Conrad Ferguson

# Agenda - Shared Risk Pension Plan

- Fundamental Facts
- Conversion, Pricing and Operations
- Overview of policies
- Illustrations
- Other Considerations
- Other Canadian Developments
- Summary

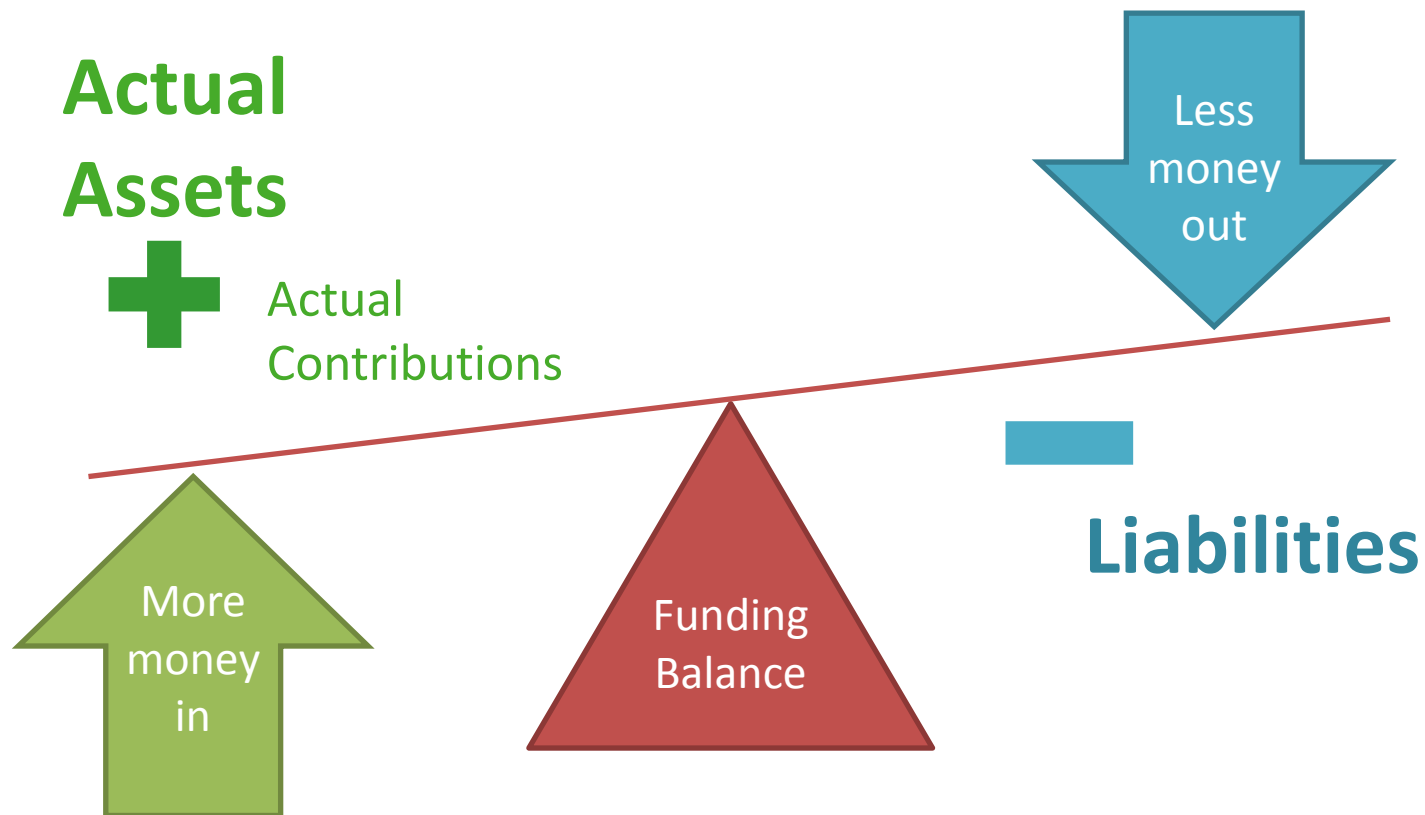
# Fundamental Facts

1. Future is uncertain
2. All types of plans are subject to same basic equation:

Equation	Important Considerations
Actual Benefits	Type of plan drives allocation to members
=	
Actual Contributions	Limited to ability or willingness to pay
+	
Actual Investment Income	Reflects combination of market return (variable) and risk tolerance in selecting asset mix

# Fundamental Facts - Balancing Equation

Involves more money in or less money out



# General Overview – Shared Risk /Target Benefit Plan

## Structural Elements (Universal)

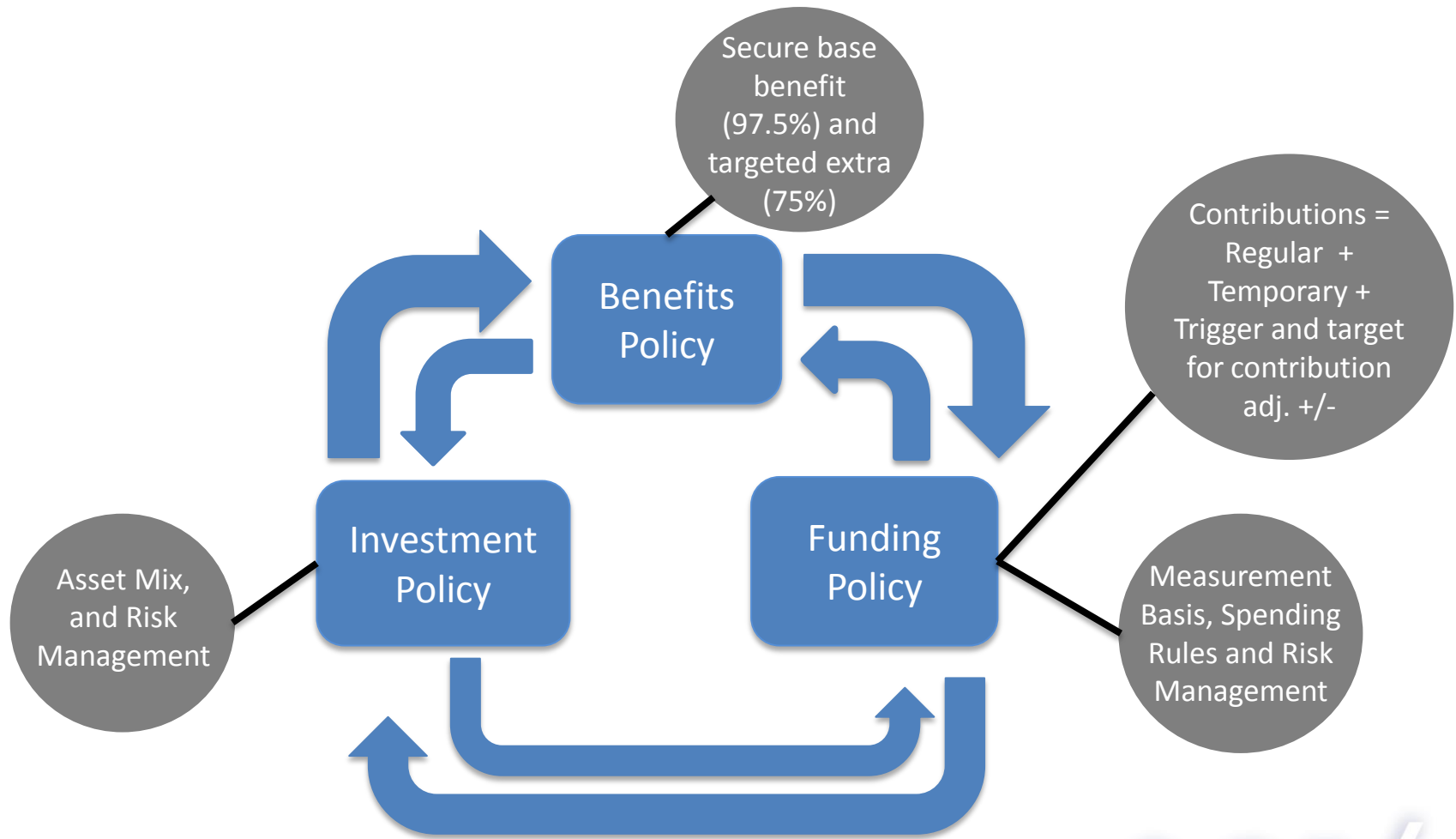
- Accept fundamental facts
- Enabling Legislation
- Governance Structure
- Integration and interaction of:•
  - Benefits;
  - Funding; and
  - Investment Policies
- Risk Management on both sides of balance sheet\*

## Operational Rules (Preferential)

- Risk Management Standard
  - Pricing Standard
  - Conversion Standard
  - Measurement Basis
- Benefit Structure
- Contribution Rules
- Spending Rules
- Priorities for response to excess/deficient funding

\* Often overlooked when looking at solutions for underfunded plans

# Conversion, Pricing and Operations







Annual Meeting and Public Policy Forum

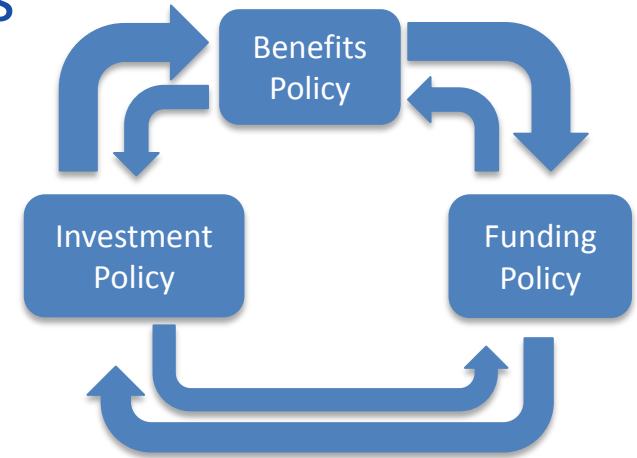
2016



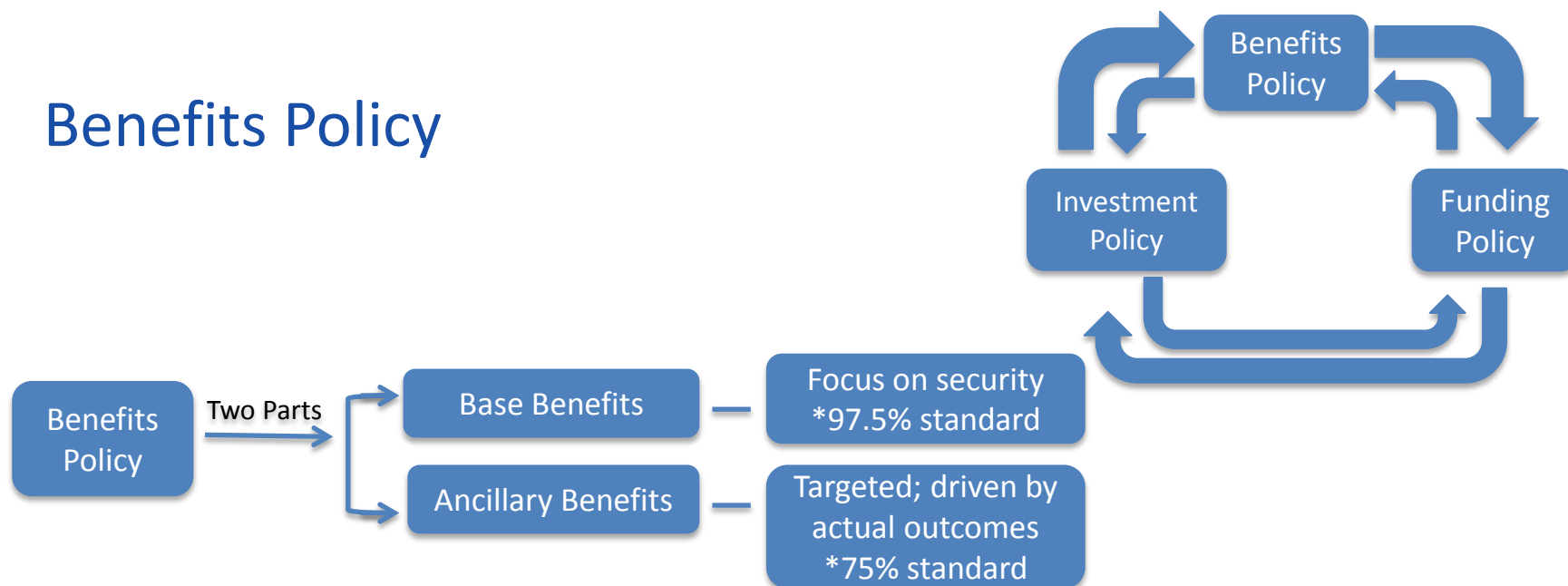
# Conversion, Pricing and Operations

## Fundamental Elements

- No absolute guarantees
- Conversion of accrued benefits allowed
  - Subject to “priced-in”, minimum performance standards
- Pricing of contribution formula is based on stochastically modeled interactions of funding, benefits and investment policies
- All future benefit, contribution adjustments and asset mix decisions driven by actual outcomes
- Model is self correcting
  - Sufficient fund capacity: spending  contributions 
  - Reduced Funding capacity: spending  contributions 



# Benefits Policy



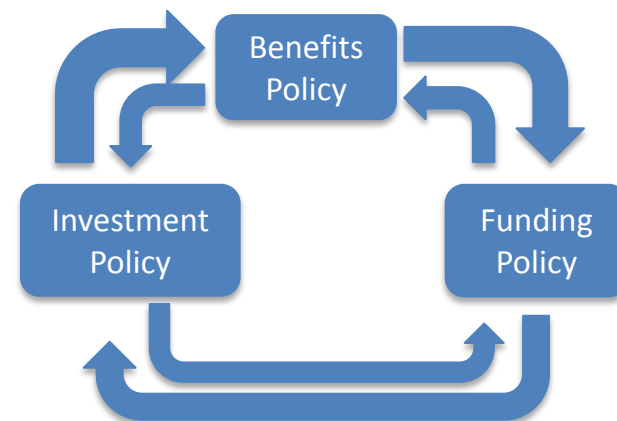
**Base Benefit** = Lifetime pension at normal retirement age  
+ all previously granted indexing  
+ attained retirement rules

**Ancillary Benefits** = Everything else

\*97.5% Standard – Operation of the Funding Policy (i.e. contributions deposited and any required adjustments, and indexing granted and other funding policy actions) will not lead to a reduction in base benefits in at least 97.5% of stochastically modeled 20-yr trials (minimum 1,000 trials using best estimate type economic assumptions).

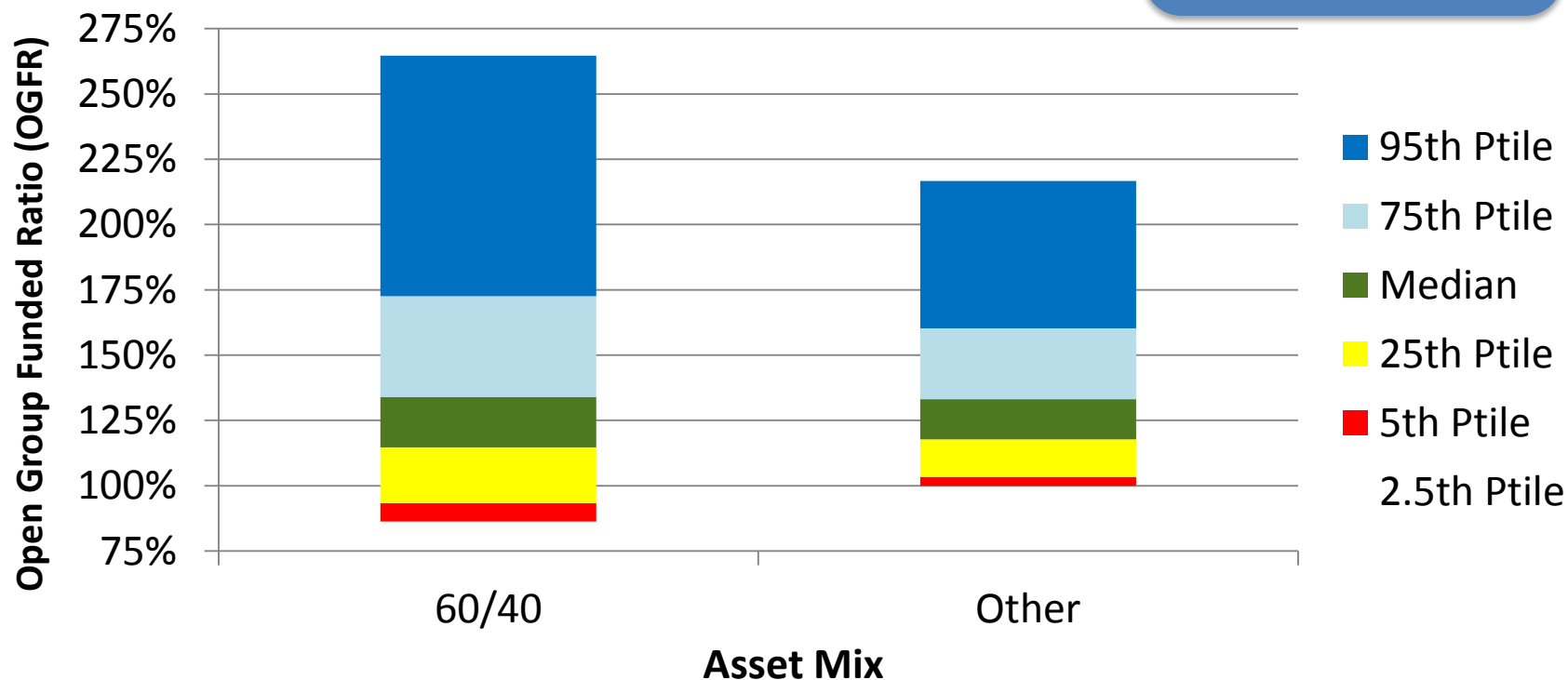
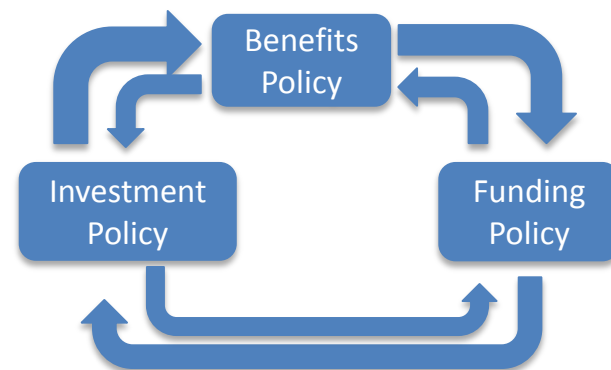
\*75% Standard – Average outcome over 20 years produce expected benefit of at least 75% of target. Main focus is typically indexing as this is the main driver here. If that is met other ancillary benefits usually easy to meet.

# Measurement Basis and Other Operational Rules



- Asset mix – Focus on left side of tail in initial pricing
  - Discount rate close to IAS 19 yield curve at the time ( 4.5% p.a. to 4.75% p.a. at inception 2012, 2013)
  - Mortality: latest information available
  - Other assumptions realistic to prudent
- Open Group Funding Ratio =  $\frac{\text{PV Excess Contributions 15 years} + \text{MV Assets}}{\text{Base Benefits Liabilities}}$ 
  - Measures “capacity to pay”
  - Inherent population decline risk present

# Illustration: Asset Mix Risk Management Matters - Distribution of OGFR at year 20

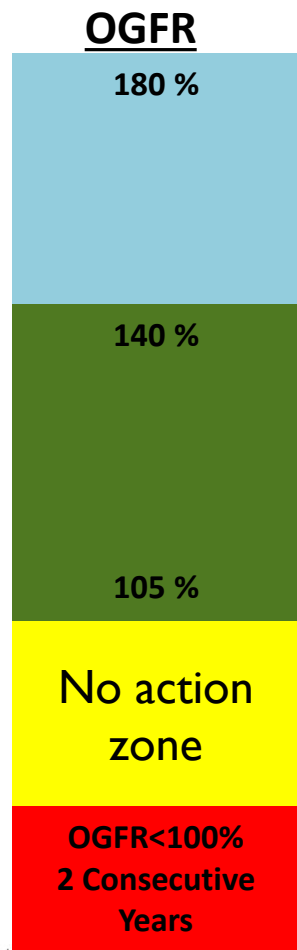
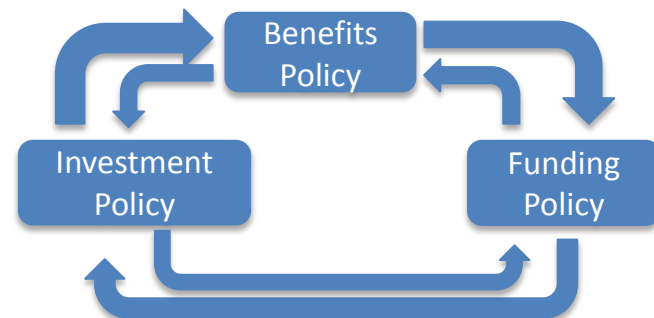


**60% eq./40%FI vs 20%eq./20%lowvolEq./40%FI/20% Alt.**

Annual Meeting and Public Policy Forum

2016

# Risk Management Spending/Contributions



MORE MAY NEED TO BE DONE

## TRIGGER PHASE 2 OF FEUP

- No limit on spending above 140%:
  - Reduce contributions (max 25%)
  - Upgrade benefits
  - Reduce risk (immunization, buy annuities, etc.)

## TRIGGER PHASE 1 OF FUNDING EXCESS UTILIZATION PLAN (FEUP)

- Maximum spend is 20% of excess between 105% to 140%, can include:
  - Indexing of benefits, supplementary benefit
  - Improvement to early retirement rules etc.

## TRIGGER FUNDING DEFICIT RECOVERY PLAN (FDRP)

- Increase contributions (max 25% of initial rate)
- Decrease past ancillary benefits
- Decrease future benefit accrual rate (max 5% of value)
- Decrease all past benefits (equal % for all members)

Annual Meeting and Public Policy Forum

2016

# Typical Benefits Pre and Post Conversion

- Past accruals to date of conversion
- Future service
  - Best average five years
  - Unreduced at 60
    - Reduction 3% p.y. early
  - 1.3%/2% lifetime accrual rate plus 0.7% bridge to 65
  - Purchase of service based on 1 or 2 x E'ee contrib.
  - Termination value either E'ee contrib + interest or commuted value
- Frozen with indexing in future conditional on outcomes
- Future service
  - Indexed career average
  - Unreduced at 65
    - Reduction 5% p.y. early
  - 1.4%/2% lifetime accrual plus 0.6% bridge to 65
  - Purchase of service based on SRP value of benefits
  - Termination value is share of fund based on accrued pension

# PSSRP Annual Report – 2015

Source: Annual Report 2015 Public Service Shared Risk Plan (Province of New Brunswick)

[http://www2.gnb.ca/content/dam/gnb/Departments/ohr-brh/pdf/pensions/pension\\_plans/pssa/pssrp\\_ar\\_2015.pdf](http://www2.gnb.ca/content/dam/gnb/Departments/ohr-brh/pdf/pensions/pension_plans/pssa/pssrp_ar_2015.pdf) page 12

FUNDING POLICY VALUATION RATIO  
(page 14)

**106.9%**

2015 INVESTMENT  
PERFORMANCE (page 19)



15-YEAR OPEN  
GROUP FUNDED  
RATIO (page 15)

**125.4%**

RISK MANAGEMENT GOALS (page 16)

Primary Goal  
Required 97.5%  
Achieved 98.55%

Secondary Goal 1  
Required 75%  
Achieved 83.2%

Secondary Goal 2  
Required 75%  
Achieved 97.7%

ASSETS vs. LIABILITIES (page 13)  
as of Dec. 31, 2015



COST OF LIVING  
ADJUSTMENT (COLA) (page 15)

Consumer Price Index 1.40%

**COLA TO BE  
PROVIDED 1.40%**

Annual Meeting and Public Policy Forum

2016

# Experience to Date

- Legislation effective
- First conversions occurred July 1, 2012
- All plans we are involved with
  - Are performing above median expectation:
    - Contributions in excess normal cost for base benefits of 50% or more generate additional funds
    - Combination of asset mix changes and market returns have produced favourable results (i.e., average return to date since conversion comfortably exceeded discount rate)
    - Indexing provided up to CPI
    - Some plans able to apply funding policy steps beyond inflation protection



## Illustration of funding performance if introduced prior to 2008 crash using 2008-2011 median pension fund returns in Canada

(Source: Report on Economic Statistics 1924-2015, Canadian Institute of Actuaries)

- Key assumptions (very simple calculation made)
  - December 31, 2007 funding levels : FR 106%, OFGR 125%
  - Inflation adjustment at 1.1.2009 = 2%
  - Contributions in excess of NC of Base Benefits = 1% of liabilities
  - Discount rate 4.75%, all other assumptions met
  - All figures as a % of base benefits liabilities and rounded to nearest %

Year ending	Median return	Funding Ratio	OGFR (can spend 20% of OGFR - 105%)	Amount available to spend next year	Amount Spent
2007	N/A	106%	125%	4%	n/a
2008	-15.9%	84%	103%	0%	2%
2009	16.2%	94%	113%	2%	0%
2010	10.4%	98%	117%	2%	2%
2011	0.5%	93%	111%	1%	2%

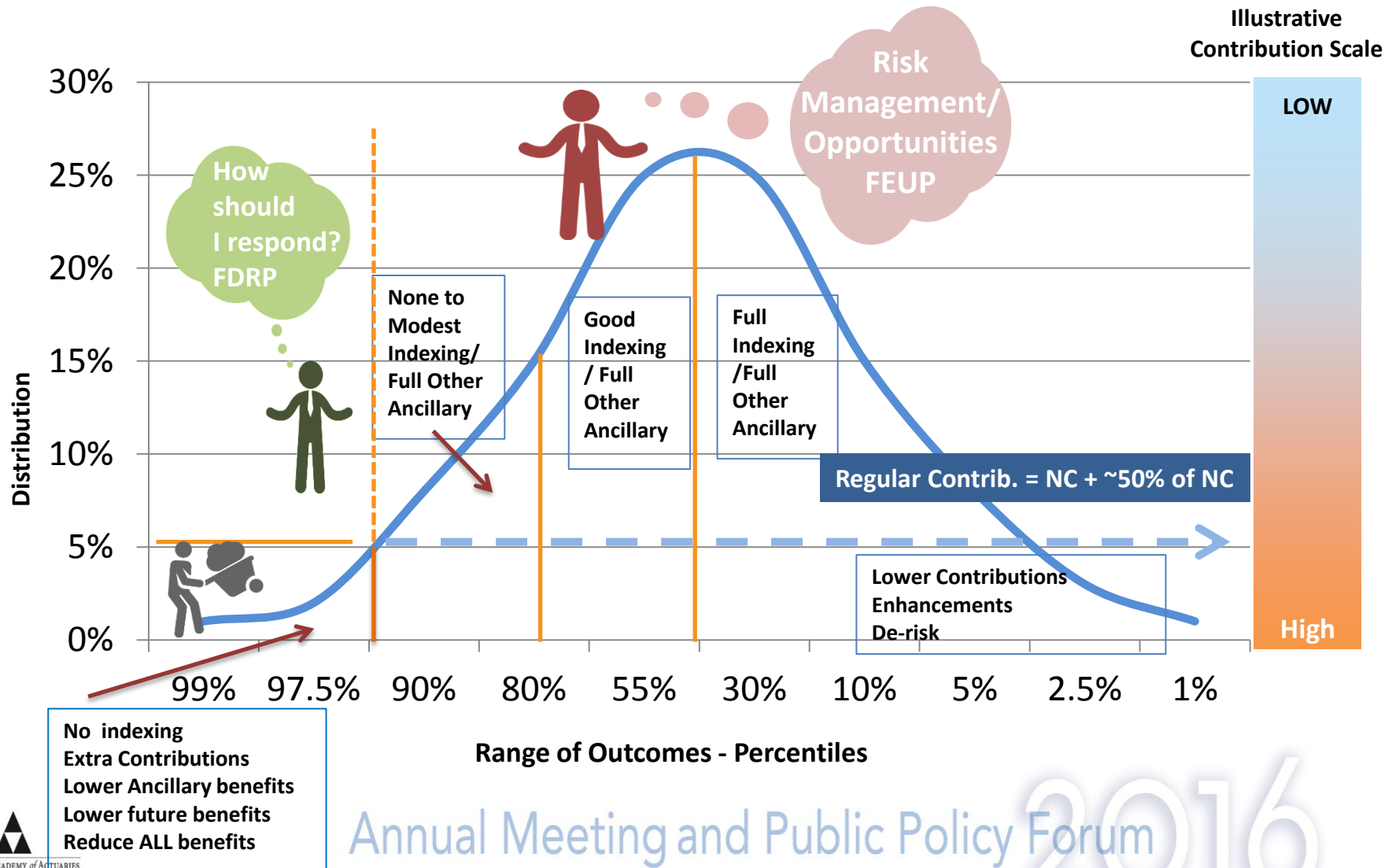
# Other Considerations

- Certain additional risks to consider at inception
  - Future member population decline
  - Potential sale of business component(s) by sponsor affecting OGFR
- Important points
  - Benefit security: 97.5% test
    - Done in following circumstances only
      - At inception;
      - When permanent plan changes made;
      - Every year to determine if spending can be made or adjustments needed to investment policy or benefits
    - Only measures investment risk and benefit cash flows stochastically
    - Since contributions pre-determined, probability of benefit reduction could increase/decrease in future
    - Risk of employer bankruptcy not considered (no different than Traditional DB)

# Other Canadian Developments

- 10 pension jurisdictions
  - Federal Government TBP legislation now out (First reading October 2016)
  - Target Benefit Plans (MEPPs) funded using going concern with PfAD as part of funding requirements in 2 jurisdictions
  - Municipal Plans in Quebec
  - DB Plans in Quebec
    - Eliminate solvency funding requirements
    - Use a PfAD based going concern funding approach
- Most provincial government sponsored plans have one element of benefit variability, predominantly post-retirement indexing

## Left Tail Discussion – Goal is 97.5% Success Rate



# Explanation – Summary

- SRP
  - Designed to keep contributions and benefits in balance at all times
  - Risk management imposes discipline
  - Model self corrects with plan experience
  - Based on premise of under promise and over delivery
    - in setting required contributions; and
    - managing excesses/shortfalls as they occur
    - Take advantage of de-risking opportunities, if they arise
- Does not prevent plan sponsor failure but addresses what plan can and cannot deliver openly
  - Members own share of assets
- Structural Elements are universal in nature
- Operational Elements are preferential in nature

# Retirement Goes Goldilocks: The DC'ing of DB Plans and the DB'ing of DC Plans

The banner features a blue background with a pattern of white stars. On the left, there is a vertical strip showing the dome of the U.S. Capitol building. The text "AMERICAN ACADEMY of ACTUARIES" is in a serif font, with "of" in italics. Below it, "Annual Meeting and Public Policy Forum" is in a larger, bold serif font. To the right, the year "2016" is written in a large, light blue, sans-serif font. At the bottom left, the date and location "NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C." are in a small, white, sans-serif font. At the bottom right is the American Academy of Actuaries logo, which consists of three white triangles forming a larger triangle, with the text "AMERICAN ACADEMY of ACTUARIES" and the tagline "Objective. Independent. Effective.™" below it.

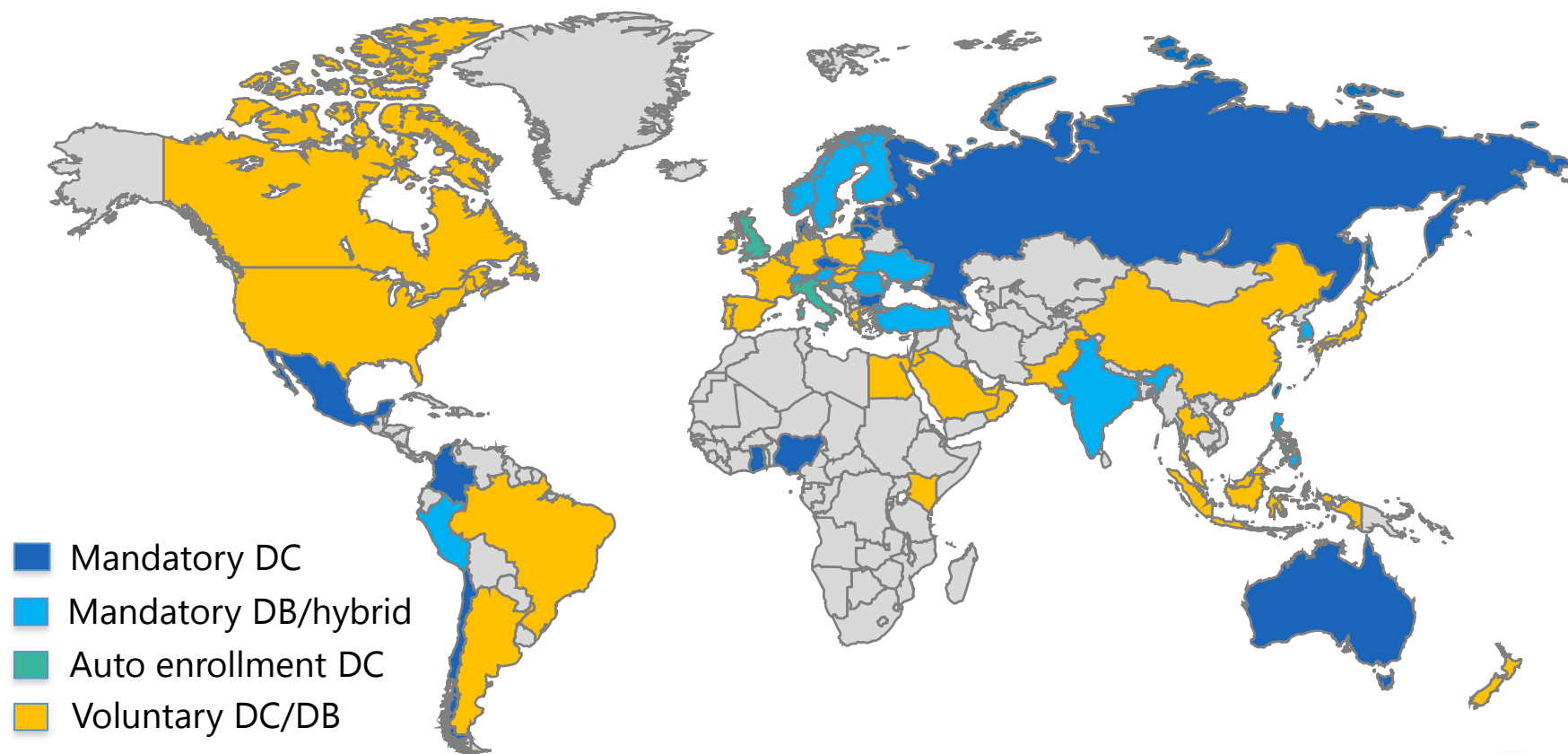
AMERICAN ACADEMY *of* ACTUARIES  
Annual Meeting and Public Policy Forum

NOVEMBER 3-4, 2016 ★ CAPITAL HILTON WASHINGTON, D.C.



## Developments in DC Plans Stacy Schaus

# DC approaching 50% of global pension assets... program structures differ by country



# Retirement income questions plan sponsors should ponder...assuming they desire retiree asset retention

## Access

Do retirees have sufficient flexibility to tap into their DC assets?

## Investments

Do they have appropriate investment choices?

## Insurance

Do they have access to affordable longevity insurance?

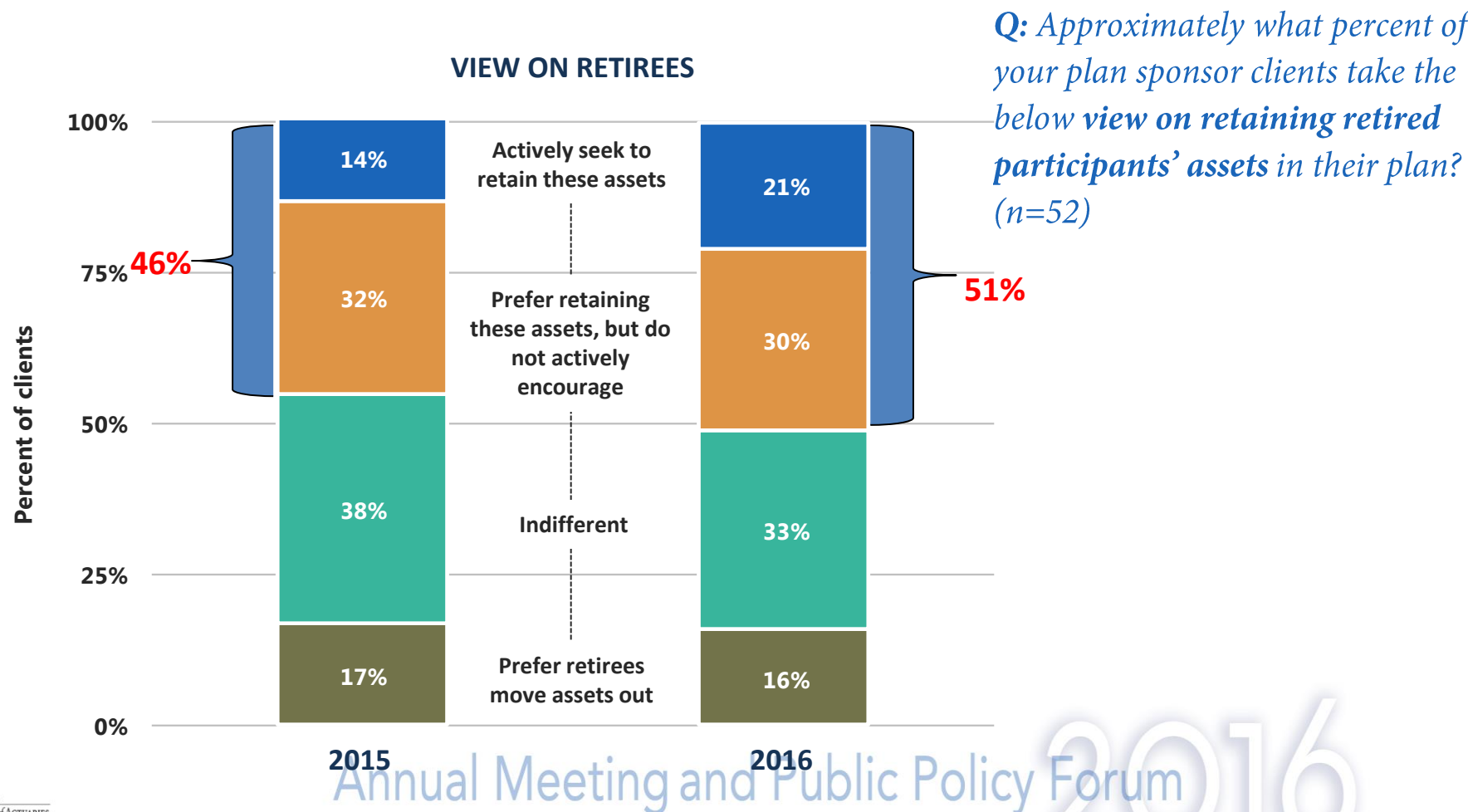
**Communication:** Do retirees understand they can remain in the plan and its advantages?



## Retiree Asset Retention

1. Access
2. Investments: Default and Core
3. Insurance

# Retirement income...consultants report plan sponsor interest in asset retention increasing



# Retiree access to DC assets may be lacking...

**Two-thirds of *all plans* allow retirees to retain assets in plan...while nearly 75% of *largest plans* do so**

## Percent of Plans Offering Retirement Distribution Option

<b>Lump Sum</b>	<b>97.8%</b>
<b>Installment payments</b>	<b>58.1%</b>
<b>Partial Distributions</b>	<b>59.1%</b>
<b>Annuity</b>	<b>20.0%</b>

## Retiree Asset Retention

1. Access
2. **Investments: Default and Core**
3. Insurance

Annual Meeting and Public Policy Forum

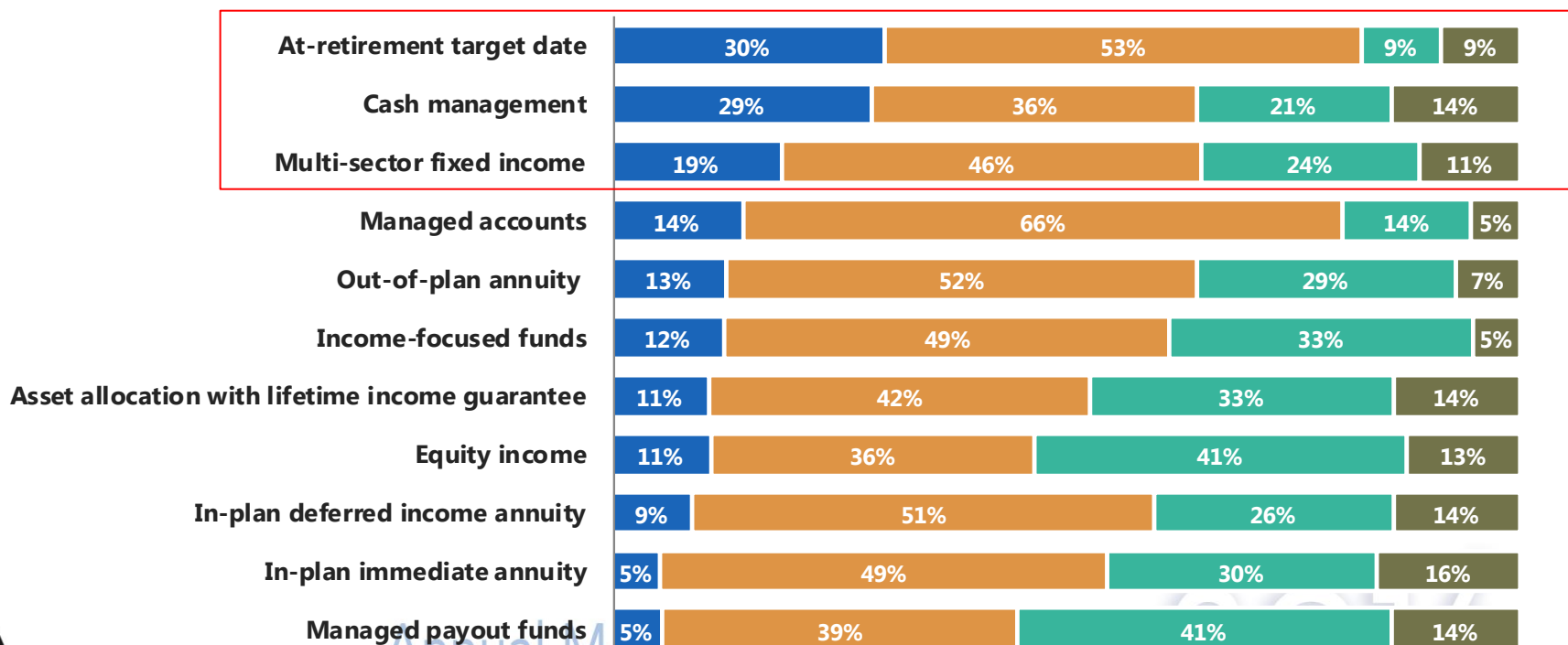
2016

# Capital market solutions top the list as most actively promoted by consultants for retirement income within DC plans...

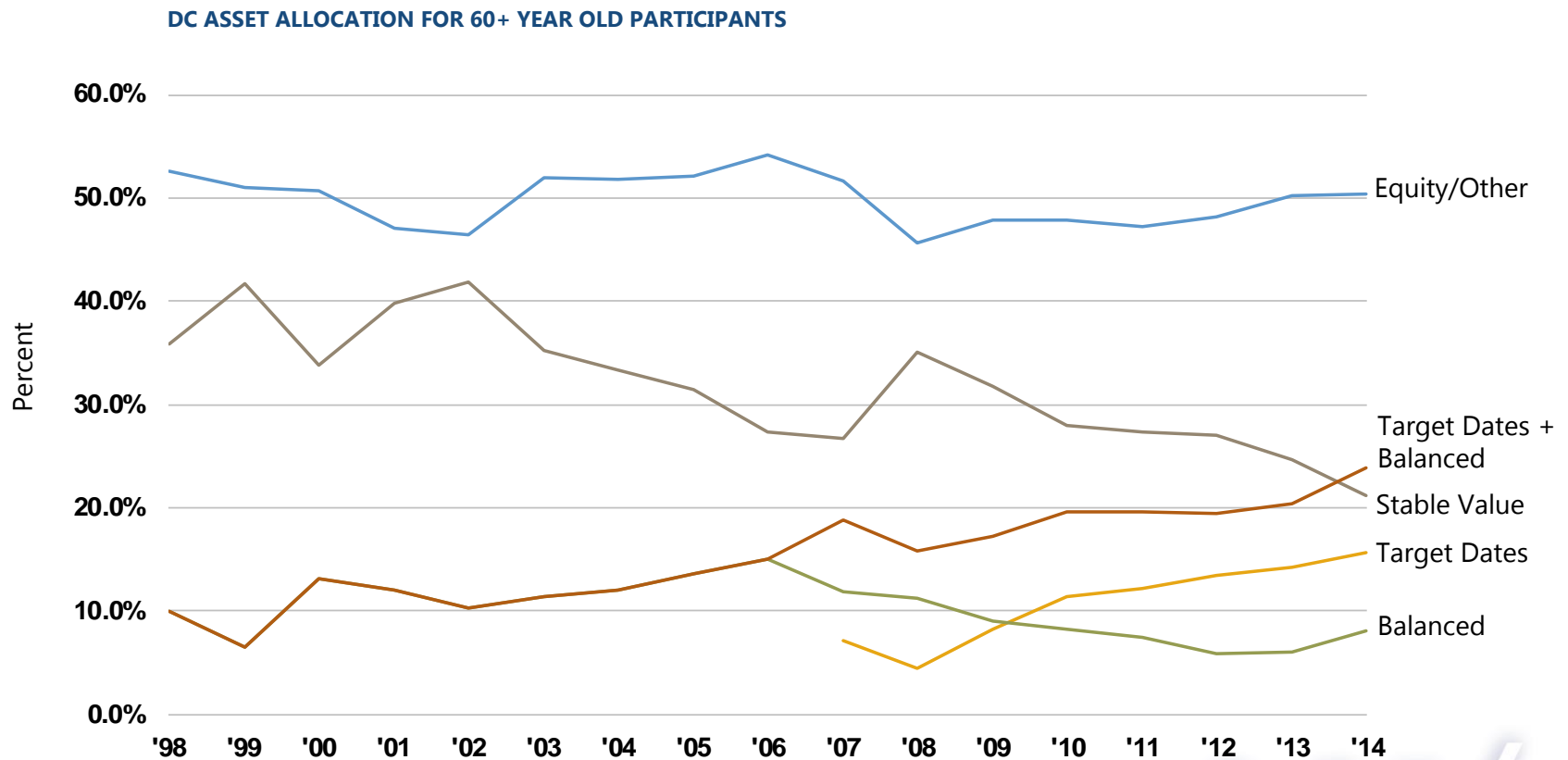
*Q: What is your firm's position on the use of the following investment and insurance retirement income strategies? (n=57)*

## SUPPORT FOR RETIREMENT INCOME STRATEGIES

■ Actively promote
 ■ Support client interest
 ■ Neutral
 ■ Discourage

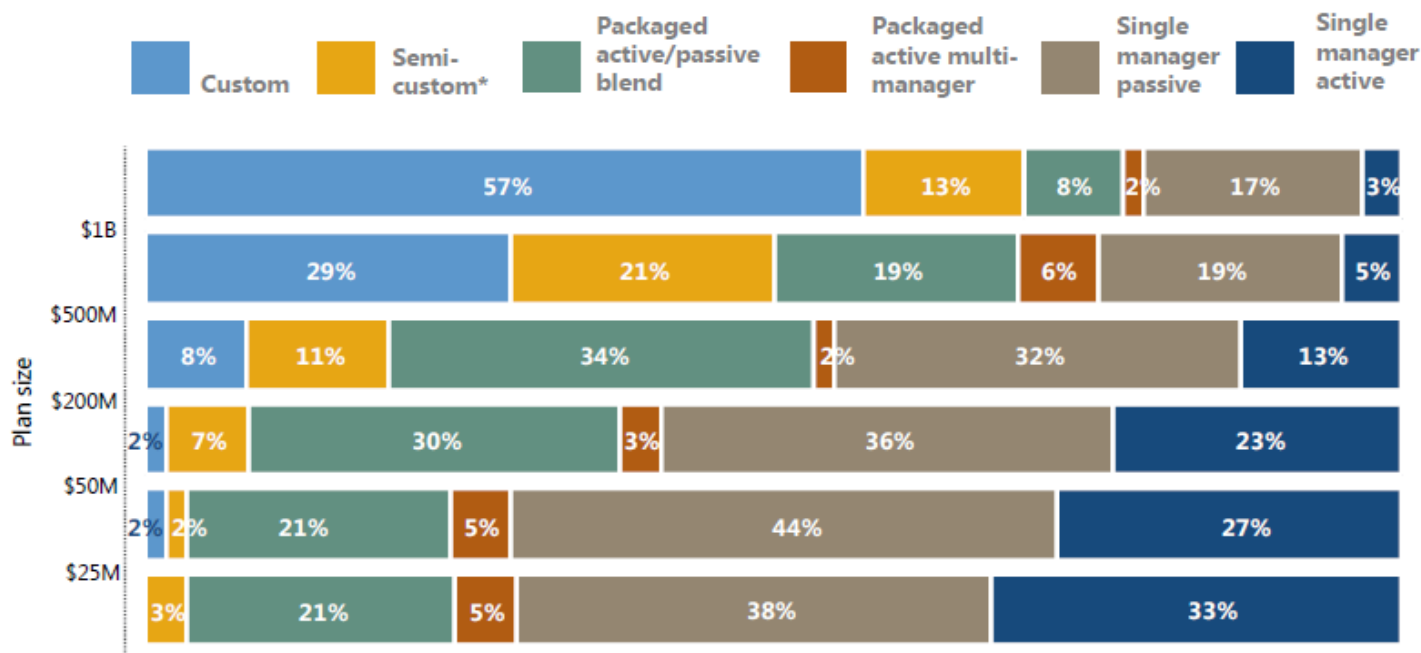


# Retiree assets building in target-date strategies



# Type of target-date strategy varies from full custom to single manager packaged...consultants suggest approach by plan size

## Target-Date Fund Structure LIKELY TO BE CHOSEN



89%

of consultants recommend **target-date funds** be used as the qualified default investment alternative (QDIA)

**#1 Ranked Target-Date Objective:** Maximizing asset returns while minimizing volatility *relative to the retirement liability*

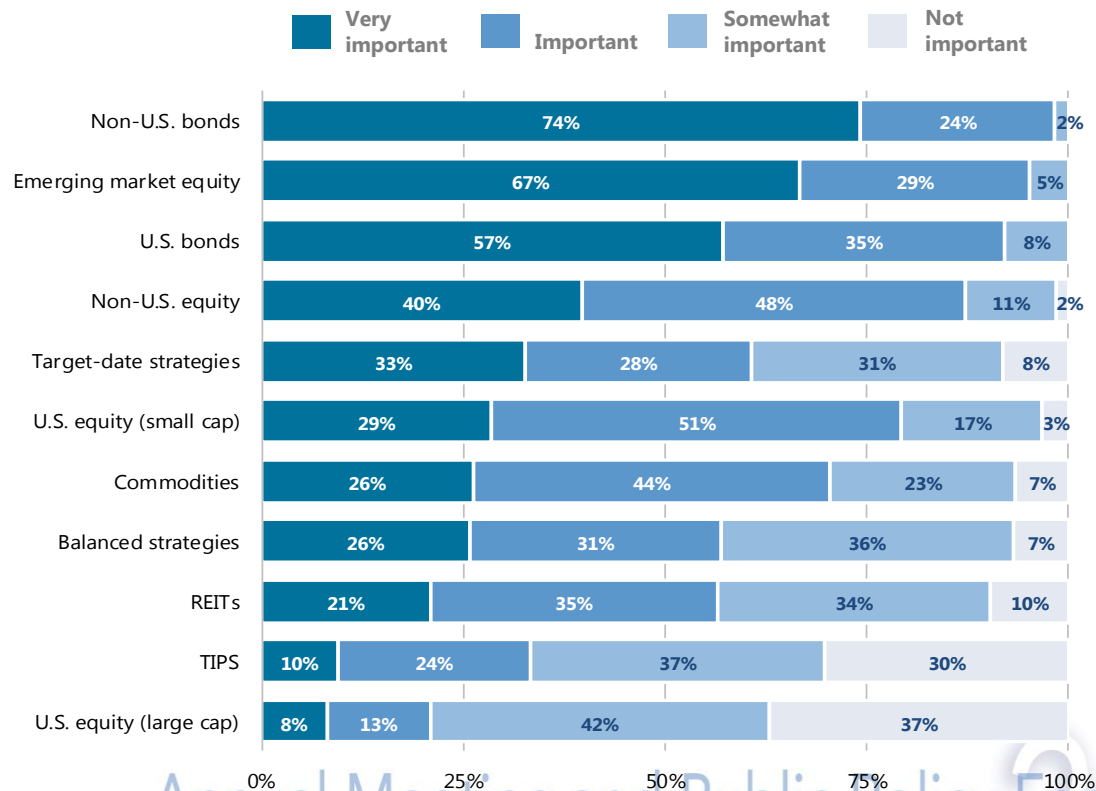
# Core investments: 4 Risk Pillars and 10 Choices

		<b>Consultant Recommendation</b>	<b>Considerations</b>
1	<b>CAPITAL PRESERVATION</b>	<b>97% 68%</b> <b>Stable Value Money Market</b>	<ul style="list-style-type: none"> <li>• <b>Inflation beating</b></li> <li>• <b>Money market regulations</b></li> </ul>
2	<b>FIXED INCOME</b>	<b>98% 68%</b> <b>Core or Core plus Income (IG, HY, MS)</b>	<ul style="list-style-type: none"> <li>• <b>Yield opportunity</b></li> <li>• <b>Diversification</b></li> </ul>
6	<b>EQUITY</b>	<b>92% 92% 70%</b> <b>U.S. Large Cap U.S. Small/Mid Non U.S. Developed</b>	<ul style="list-style-type: none"> <li>• <b>Active or passive</b></li> <li>• <b>Blend vs. stand alone</b></li> </ul>
1	<b>INFLATION- PROTECTION</b>	<b>67% 60%</b> <b>TIPS Multi-real asset</b>	<ul style="list-style-type: none"> <li>• <b>Inflation beta</b></li> <li>• <b>Volatility</b></li> </ul>



# Active management important in most asset classes

More than 90% of consultants believe that active management is important for non-U.S. bonds, emerging market equity strategies and U.S. bonds.



## Retiree Asset Retention

1. Access
2. Investments: Default and Core
- 3. Insurance**

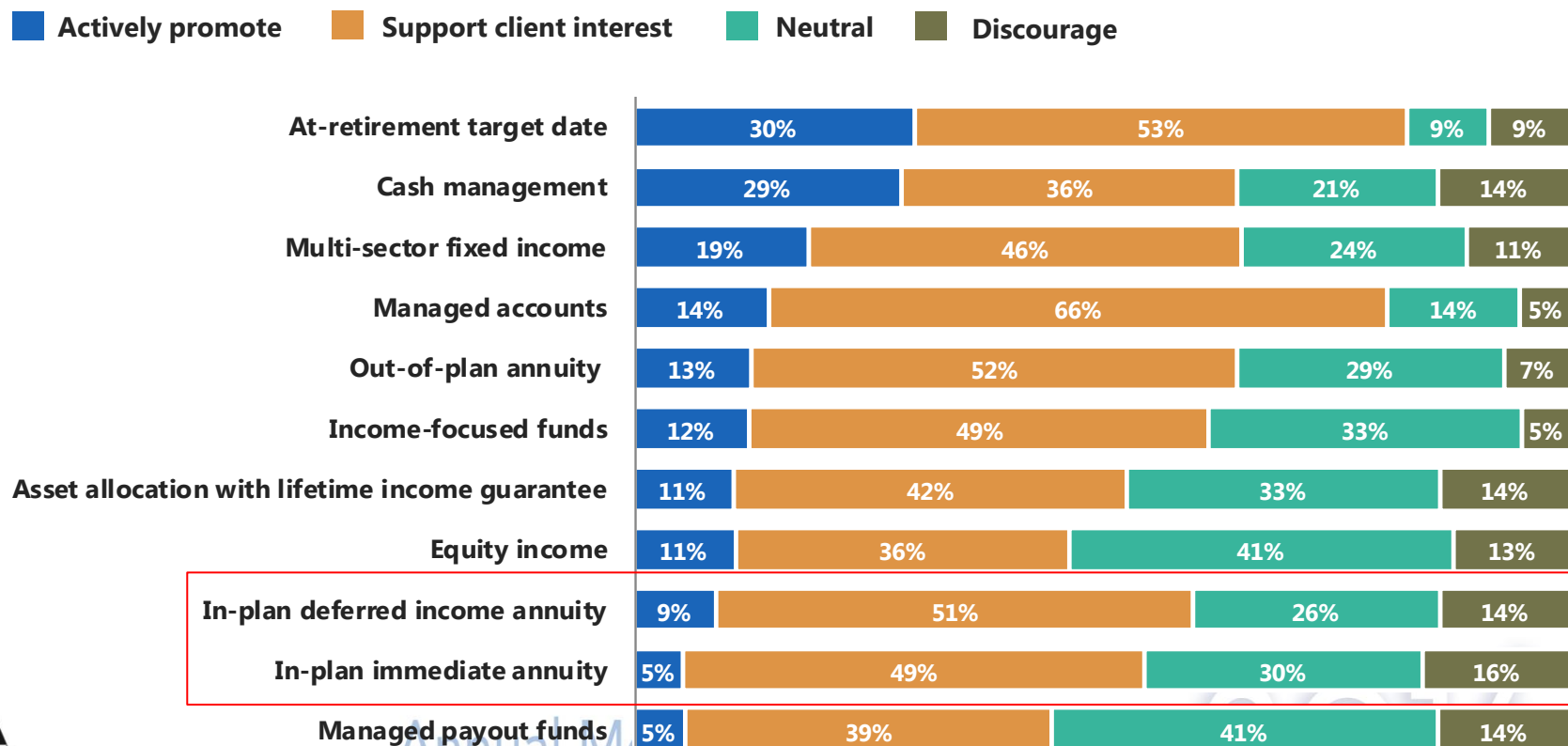
Annual Meeting and Public Policy Forum

2016

# In-plan insurance options lack active promotion by consultants

*Q: What is your firm's position on the use of the following investment and insurance retirement income strategies? (n=57)*

## SUPPORT FOR RETIREMENT INCOME STRATEGIES



# In-plan insurance options raise many concerns...

**Q:** What are the *primary concerns* that may stop your clients from offering *in-plan insurance products* (e.g., annuities)? (n=63)

## IN-PLAN INSURANCE PRODUCT CONCERNS

Primary concerns with in-plan insurance products			
Portability	67%	Operational complexity	35%
Cost	63%	Communication complexity	27%
Insufficient government support (e.g., safe harbor)	62%	Monitoring/benchmarking	25%
Perception of added liability	40%	Low interest rate environment	16%
Insurance company default risk	37%	Transparency	14%
Lack of liquidity and control	37%	Selection criteria unclear	10%
Lack of participant demand	35%	Lack of insurance company commitment	3%

# Out-of-Plan insurance options may address many concerns and offer significant benefits to participants...

Decision Factor	In-Plan Accumulation	Out-of-plan
Institutional pricing	Yes	Yes

# DC plan design will evolve to encourage retiree asset retention

Plan sponsors should consider:

- Access: do they offer sufficient distribution flexibility to retirees?
- Investments: do they offer appropriate target-date strategies, capital preservation and income strategies?
- Insurance: do they offer access to institutionally priced insurance programs?

***Communication:*** Help retirees understand why they may be best served by retaining their assets in plan.

# Appendix: Background on PIMCO's 10th Annual *Defined Contribution Consulting Support and Trends Survey*

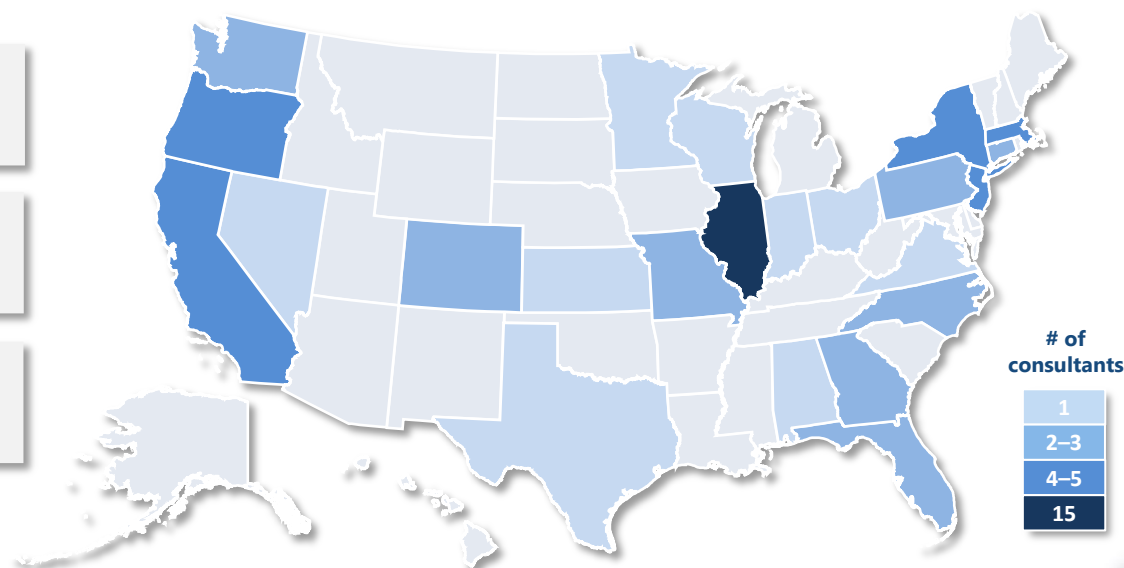
PIMCO's DC Practice has prepared the 10<sup>th</sup> annual ***Defined Contribution Consulting Support and Trends Survey*** to help plan sponsors understand the breadth of views and consulting services available within the DC marketplace. Our 2016 survey captures data, trends and opinions from **66 consulting firms** across the U.S., which serve over **11,000 clients** with aggregate DC assets in excess of **\$4.2 trillion**.

## SURVEY PARTICIPANTS

**66** DC consultants and advisors  
from 23 states

**11K+** DC plan sponsor  
clients represented

**\$4.2T+** In client DC  
assets

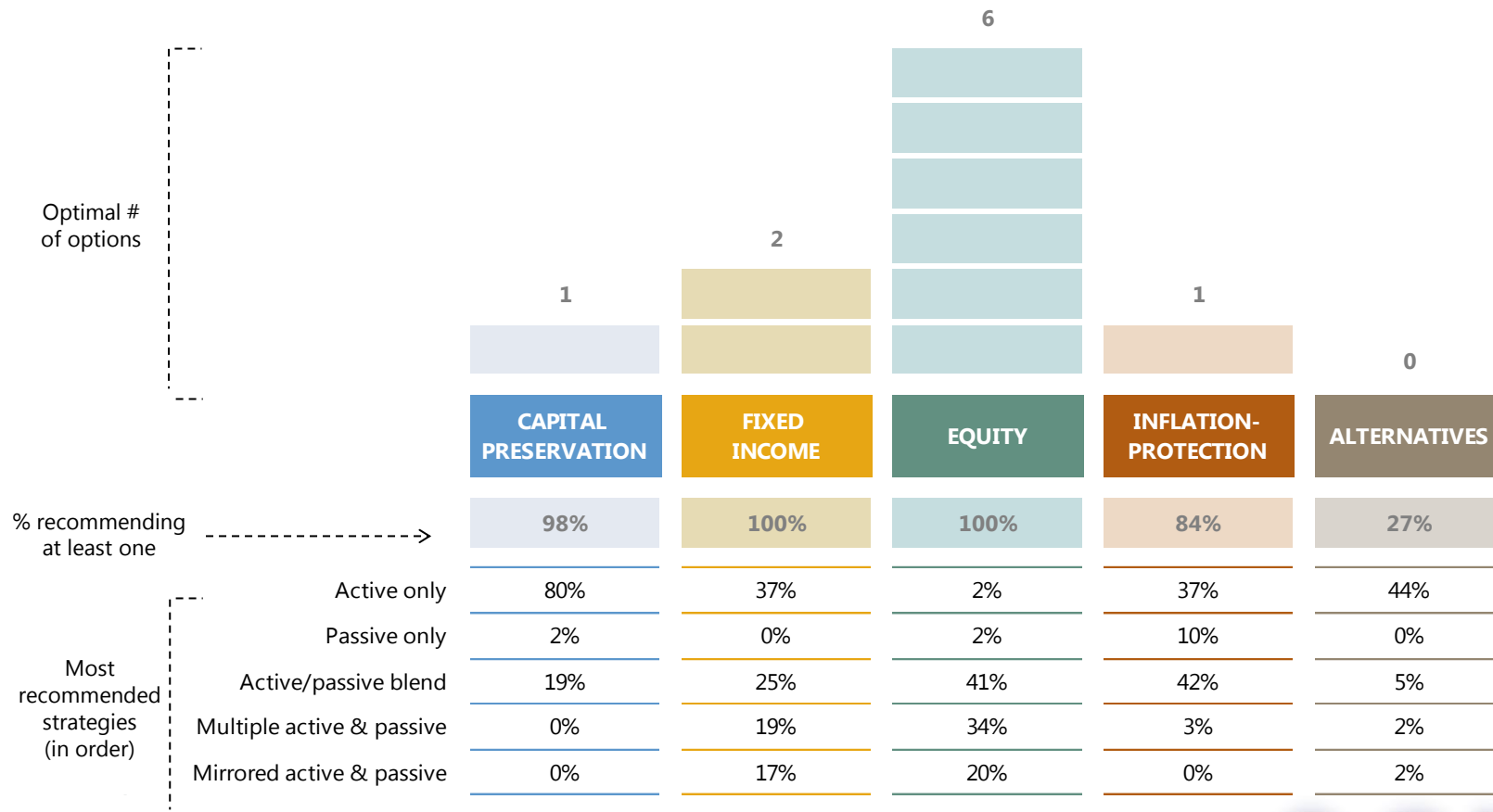


Annual Meeting and Public Policy Forum

2016

# Core investments: consultants suggest 10 investment strategies across four primary risk pillars...primarily actively managed

*Q: What is the optimal number of core menu options for each of these asset categories? (n=62)*





# Biography



## *Stacy Schaus*

*CFP®, DC Practice Leader, PIMCO*

- Ms. Schaus is an executive vice president in the Newport Beach office and leads PIMCO's Defined Contribution Practice working primarily with plan sponsors and consultants. She has written extensively on defined contribution issues, including the regular publication PIMCO DC Dialogue™ and her 2010 book, *Designing Successful Target-Date Strategies for Defined Contribution Plans*. Prior to joining PIMCO in 2006, she was a founder and president of Hewitt Financial Services, which includes DC investment consulting and research as well as brokerage and personal finance.
- She is the founding chair for the Defined Contribution Institutional Investment Association, serves on the executive committee of the Employee Benefit Research Institute and served as a Financial Planning Association board member. She has 32 years of investment experience and holds an MBA from the Stern School of Business at New York University and an undergraduate degree from the University of California, Santa Barbara.

Annual Meeting and Public Policy Forum

2016

# About the PIMCO DC Practice

The PIMCO DC Practice is based in Newport Beach and is dedicated to promoting effective DC plan design and innovative retirement solutions. Our team is pleased to support our clients and broader community by sharing ideas and developments in DC plans in the hopes of fostering a more secure financial future for employees of corporations, not-for-profits, governments and other organizations.

**If you have a topic you'd like to discuss, please contact your PIMCO representative or email us at [pimcodcpractice@pimco.com](mailto:pimcodcpractice@pimco.com). We're interested in your ideas and feedback!**

**Past performance is not a guarantee or a reliable indicator of future results.** This report is provided for informational purposes and should not be construed as a solicitation or offer to buy or sell any securities or related financial instruments in any jurisdiction.

**A Word About Risk:** PIMCO does not offer insurance guaranteed products or products that offer investments containing both securities and insurance features. 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 to economic and political risks, which may be enhanced in emerging markets. Certain U.S. Government securities are backed by the full faith of the 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. REITs are subject to risk, such as poor performance by the manager, adverse changes to tax laws or failure to qualify for tax-free pass-through of income. Commodities contain heightened risk including market, political, regulatory, and natural conditions, and may not be suitable for all investors. Stable value wrap contracts are subject to credit and management risk. Derivatives may involve certain costs and risks such as liquidity, interest rate, market, credit, management and the risk that a position could not be closed when most advantageous. Investing in derivatives could lose more than the amount invested.

The survey results contain the opinions of the respondents and not necessarily those of PIMCO. Information contained herein has been obtained from sources believed to be reliable, but is not guaranteed. 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. No part of this material may be reproduced in any form, or referred to in any other publication, without express written permission.

Pacific Investment Management Company LLC, 650 Newport Center Drive, Newport Beach, CA 92660, 800.387.4626.

PIMCO is a trademark of Allianz Asset Management of America L.P. in the United States and throughout the world. ©2016, PIMCO

# Questions?