Wharton Pension Research Council Recreating Sustainable Retirement April 25, 2013

Discussant: Jonathan Grabel, Montgomery County Public Schools

Background

- Montgomery County Public Schools
 - 150,000+ students
 - 22,000+ employees
 - 15,000+ retirees and termed-vested
- Defined Benefit Plan \$1.2 billion
- Defined Contribution Plans \$1.1 billion
 - 403(b) and 457(b)
 - 12,000+ participants

Paper 1 – Managing Capital Market Risk

- Enrico Biffis & Robert Kosowski
- Better managing both assets and liabilities
- Continuum plan closure to risk transfer to risk management
- Emergence and growth of LDI
- New solutions to manage risks post GFC
 - Full and partial transfer of pension obligations
 - Hedging instruments
- Challenges
 - Nomenclature
 - Regulatory
 - Adverse selection
 - Counterparty risk
 - Alignment of incentives

- Plan design
- Risk management
- Other variables

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- Plans are changing
- Employee contributions
- Longer vesting
- New benefit formulas
- Hybrid and DC plans
- Plan construct as longterm risk mitigation

- Plan design
- Risk management
- Other variables

- Investment options include
 - Diversification/Alternatives
 - LDI
 - Risk Parity
 - Smart Beta
 - Low Vol
 - Tail-risk hedging
 - Overlays
 - GTAA
- Strategic \rightarrow tactical
- Insource or outsource
- Buyer or seller

- Plan design
- Plan management
- Other variables

- Funded status
- Low interest rate environment
- Potential conflict with actuarial assumptions
- Implementation
 - Plan resources
 - Benchmarks/monitoring
- Expenses
 - Fees
 - Opportunity costs

Paper 2 – Shifting Distribution of Returns

- James Moore & Niels Pedersen
- Long term market returns have critical implications
- Various models yield different range of outcomes
 - Traditional models (multivariate normal, block bootstrap)
 - Regime-switching macro-driven simulation model (LHS)
- Evaluate in the context of DB and DC plans
 - DC LHS narrower distribution
 - DB LHS has lowest average required contribution
- Long horizon simulation model has benefits yet should be used as part of a comprehensive tool set

- Big Data
- Perspective
- Implementation

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- Context
- Implementation

• *It's not complicated...*or is it?



- Big Data
- Context
- Implementation

- Experience in PE
 - 1,000+ models
 - Accuracy
 - Predictive?
- Models are precise
 - Identify trends
 - Test scenarios
- Benefit of multiple models
- Necessary but not sufficient

- Analytics
- Context
- Implementation

- Models
 - Add rigor to processes
 - Need to be user friendly
- Identify role of model
 - Asset allocation
 - Manager selection/redemption
- Balance with
 - Qualitative analysis
 - Judgment
- Resources
 - Change skill-sets
 - Work with partners

General Observations

- Asymmetric risks in retirement plans
 - Both papers focus on risk mitigation strategies
 - Plan management in context of uncertainty
- Risks in "left-tail" mindset
 - Potential underperformance
 - Questionable asset allocation
 - The future will be different
- Need to establish realistic expectations
 - Investment rates of return
 - Lower or bounded returns

General Observations (cont.)

- Financial innovation
 - Market efficiencies
 - Fee structures will change
- Agency issues
- Expand
 - Financial literacy
 - Involvement of all stakeholders
- Risk mitigation difficult for self-directed DC plans
- Importance of good governance

Thank You