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**Asset Allocation Review Considering Private Investments and Pension Reduction Bond**

**City of Jacksonville  
Police & Fire Pension Fund**

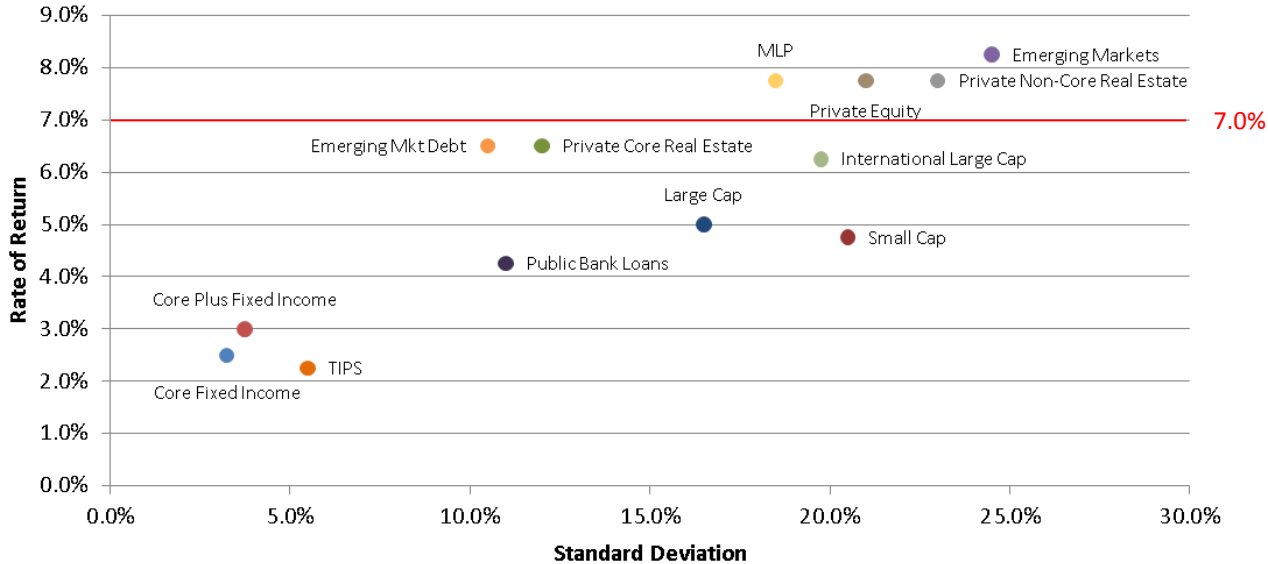
*March 16, 2015*

## EXECUTIVE SUMMARY

- You have asked Summit to illustrate the effects of changing asset allocation under three scenarios:
  - Private investments, including Private Equity and Private Real Assets/Natural Resources, become permissible for investment.
  - A “pension reduction bond” is issued by the City of Jacksonville to the Jacksonville Police & Fire Pension Plan in lieu of payment of a portion of the unfunded liability. This pension reduction bond would carry a 30-year term to maturity and pay a 5% annual coupon.
  - A combination of both.
- Summit’s capital market assumptions remain low relative to historic average returns. In addition, since the expected return for inflation was reduced from 2.25% to 1.75% (over a 10-year time horizon) earlier this year, the majority of asset classes have also experienced a drop in expected returns.
- Very few asset classes currently have an expected return greater than 7.0%.
- Adding Private Equity or Private Real Assets/Natural Resources raises the expected return to approximately 7.0%. Adding both raises expected return and keeps risk approximately the same.
- Replacing Core Fixed Income with the pension reduction bond with the proceeds added into Domestic Equity improves expected return but increases risk more.
- Replacing a portion of Core Fixed Income with the pension reduction bond with the proceeds added to Private Equity and Real Assets or both increases both expected return and risk.

**CAPITAL MARKET ASSUMPTIONS – AS OF DECEMBER 31, 2014**

**Total Return vs. Risk**



- Summit’s capital market assumptions are illustrated to the left and listed below.
- Asset class assumptions are geometric (net of volatility) using a 10-year investment time horizon and are net of fees.
- Today, few asset classes provide an expected return in excess of 7.0%, with the exception of many of the illiquid alternative/private investments.

Asset Class	Expected Return	Expected Alpha	Standard Deviation	Comments Regarding Return Assumptions
● Large Cap	5.0%	0.5%	16.5%	Long-term Expected, Fundamental Components
● Small Cap	4.8%	0.8%	20.5%	Long-term Expected, Fundamental Components
● International Large Cap	6.3%	0.8%	19.8%	Long-term Expected, Fundamental Components
● Emerging Markets	8.3%	1.0%	24.5%	Long-term Expected, Fundamental Components
● Emerging Mkt Debt	6.5%	0.8%	10.5%	Current Yield Curve + Sovereign Default Discount
● Private Non-Core Real Estate	7.8%	n/a	23.0%	Current Cap Rate + NOI Growth + Liquidity Premium + Leverage Adj
● MLP	7.8%	n/a	18.5%	Distribution Yield + NOI Growth
● Private Equity	7.8%	n/a	21.0%	Base Return (Small Cap) + Liquidity Premium + Leverage Adj
● Core Fixed Income	2.5%	0.3%	3.3%	Current Yield Curve
● Core Plus Fixed Income	3.0%	0.5%	3.8%	Current Yield Curve
● Private Core Real Estate	6.5%	n/a	12.0%	Current Cap Rate + NOI Growth + Leverage Adj
● Public Bank Loans	4.3%	n/a	11.0%	Base Return (High Yield)
● TIPS	2.3%	n/a	5.5%	Real Yield + Inflation Expectation

**CAPITAL MARKET ASSUMPTIONS (CONTINUED)**

- The table to the right summarizes changes to Summit’s long-term (10-year investment time horizon) strategic capital market assumptions that have occurred since the beginning of the calendar year.
- While these assumptions are long-term by definition (one would not expect them to change frequently), there are times throughout the year when market fundamentals move dramatically, thereby altering the long-term expected performance for certain asset classes.

Asset Class	Expected Return	Expected Return	Difference
	as of 12/31/2013	as of 12/31/2014	
Large Cap	5.50%	5.00%	-0.50%
Small Cap	5.25%	4.75%	-0.50%
International Large Cap	6.75%	6.25%	-0.50%
Emerging Markets	8.50%	8.25%	-0.25%
Emerging Mkt Debt	6.75%	6.50%	-0.25%
Private Non-Core Real Estate	8.75%	7.75%	-1.00%
MLP	8.25%	7.75%	-0.50%
Private Equity	9.25%	7.75%	-1.50%
Core Fixed Income	3.50%	2.50%	-1.00%
Core Plus Fixed Income	4.00%	3.00%	-1.00%
Private Core Real Estate	6.75%	6.50%	-0.25%
Public Bank Loans	4.25%	4.25%	0.00%
TIPS	3.25%	2.25%	-1.00%

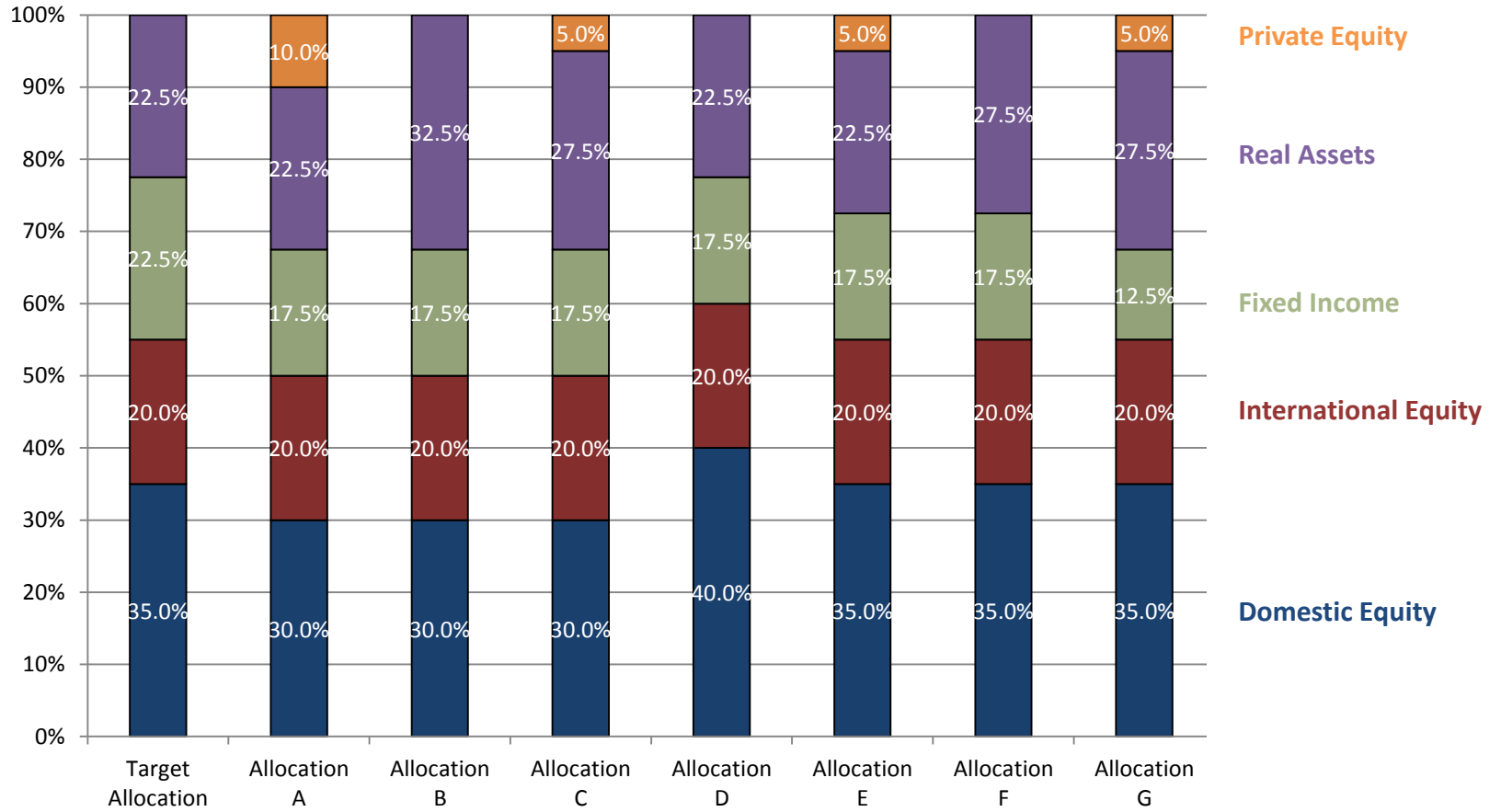
## ASSET CLASS RESTRICTIONS

- Florida Statutes outline, especially Chapters 112.661 and 215.47, several restrictions including, but not limited to:
  - No more than 25% of the assets may be allocated toward:
    - Mortgage securities
    - Real property
    - Investment grade fixed income obligations of foreign governments and agencies, foreign corporations, or foreign commercial entities
    - US dollar denominated obligations issued by foreign governments and agencies, foreign corporations, or foreign commercial entities
    - Corporate obligations and securities of any kind of foreign corporations or a foreign commercial entity having its principal office located in any foreign country – not including US dollar denominated securities listed and traded on a US exchange (See note below)
      - Non-US corporate bonds traded outside the US shall be counted toward the 25% limit.
  - No more than 80% of the assets may be allocated to:
    - domestic equity securities listed on nationally recognized exchanges and
    - domestic corporate bonds.
  - No more than 5% in alternative assets (includes private equity, private debt, and hedge funds), if deemed appropriate and subject to other restrictions.
  - Currently, real estate is the only private investment permitted by investment policy and state statutes.
  - ADRs are permissible in domestic equity portfolios but limited to 15% of manager’s portfolio per the investment policy.
- The statutory restrictions are reflected in the investment policy.
- Note: Chapter 215.47 (20) increases the 25% limit on foreign corporate securities to 35% but chapter 112.661 has not been updated to include subsection (20).
- Local ordinances may be passed to provide greater investment flexibility than that which is contained in Chapters 112.661 and 215.47 of Florida Statutes.

## CONSIDERATIONS FOR IMPROVEMENT TO ASSET ALLOCATION

- The Target Allocation has a 10-year expected return of 6.6% and standard deviation of 11.2%. The expected return falls short of the actuarially-assumed rate-of-return by approximately 40 basis points.
  
- On the following slide, the Target Allocation and several alternative allocations are modeled.
  
- Changes made with respect to the Target Allocation are as follows:
  - **Allocation A:** Domestic Equity is reduced 5.0%, Fixed Income is reduced 5.0%, and a 10.0% allocation to Private Equity is added.
  - **Allocation B:** Domestic Equity is reduced 5.0%, Fixed Income is reduced 5.0%, and Real Assets is increased by 10.0%.
  - **Allocation C:** Domestic Equity is reduced 5.0%, Fixed Income is reduced 5.0%, Real Assets is increased by 5.0%, and a 5.0% allocation to Private Equity is added.
  - **Allocation D:** 5.0% Core Fixed Income is removed, Domestic Equity is increased by 5.0%, and income from the Pension Reduction Bond (PRB) equivalent in size to 5.0% of the portfolio is factored into the expected return.
  - **Allocation E:** 5.0% Core Fixed Income is removed, a 5.0% allocation to Private Equity is added, and income from the Pension Reduction Bond (PRB) equivalent in size to 5.0% of the portfolio is factored into the expected return.
  - **Allocation F:** 5.0% Core Fixed Income is removed, Real Assets is increased by 5.0%, and income from the Pension Reduction Bond (PRB) equivalent in size to 5.0% of the portfolio is factored into the expected return.
  - **Allocation G:** 5.0% Core Fixed Income is removed, Core Plus Fixed Income is reduced by 5.0%, Real Assets is increased by 5.0%, a 5.0% allocation to Private Equity is added, and income from the Pension Reduction Bond (PRB) equivalent in size to 10.0% of the portfolio is factored into the expected return.

ASSET ALLOCATIONS



10 Year Expected Return	6.6%	7.0%	6.9%	6.9%	6.9%	6.9%	7.0%	7.5%
Standard Deviation	11.2%	11.8%	10.9%	11.3%	12.0%	12.0%	11.5%	12.3%
Return/Risk	0.59	0.59	0.63	0.61	0.57	0.58	0.61	0.61

## DISCUSSION POINTS ON PENSION OBLIGATION BOND

- 5% coupon is double the expected return of Core Fixed Income.
- If held to maturity over 30 years, volatility due to changes in interest rates will be less important. This assumes all coupon payments are timely made.
- Credit risk becomes extremely concentrated in one issuer: the City of Jacksonville. Is this prudent?
- Legal, actuarial, and auditor review required in advance.



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