

Stability

**Investment Solutions** 

Diligence

# Pennsylvania Association of Public Employee Retirement Systems

# Linda Bakhshian, CPA Federated Investors

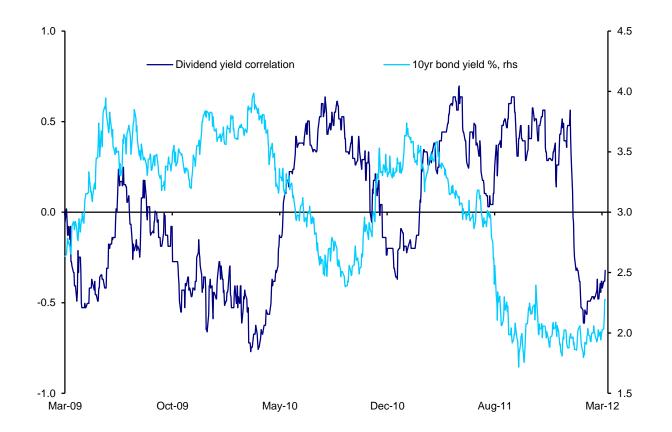
Federated Equity Management Company of Pennsylvania

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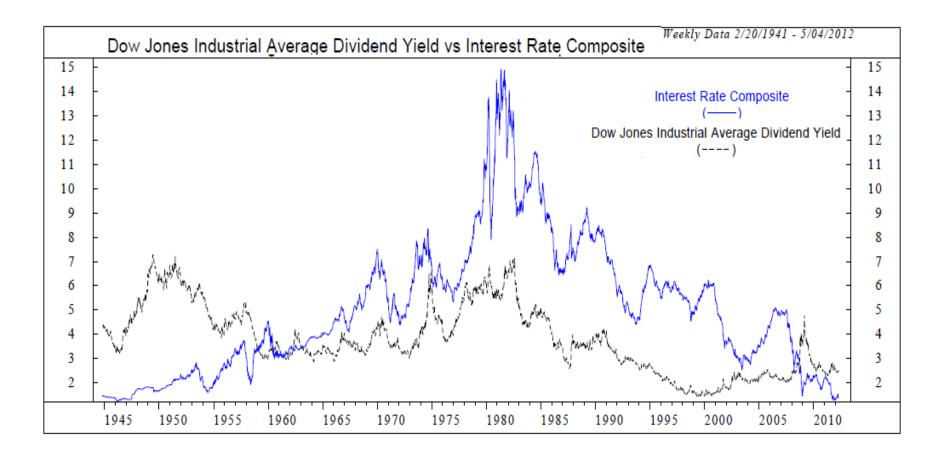
# Institutions have typically raised their dividend holdings when bond yields have been low



#### Source: state street research

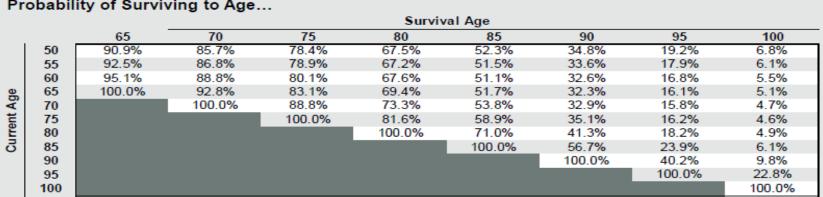
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# **Federated**<sup>2</sup>

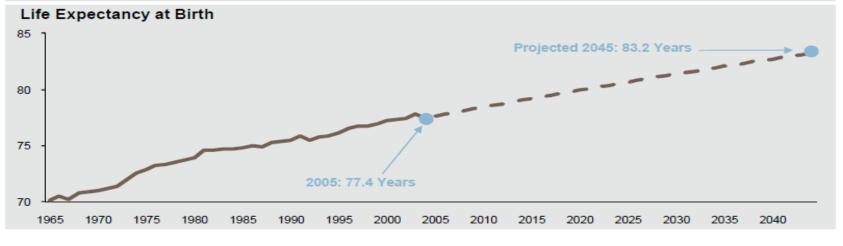


### **Beneficiary of Changing Demographics**

#### As life expectancy increases, so does the need for income



#### Probability of Surviving to Age ...

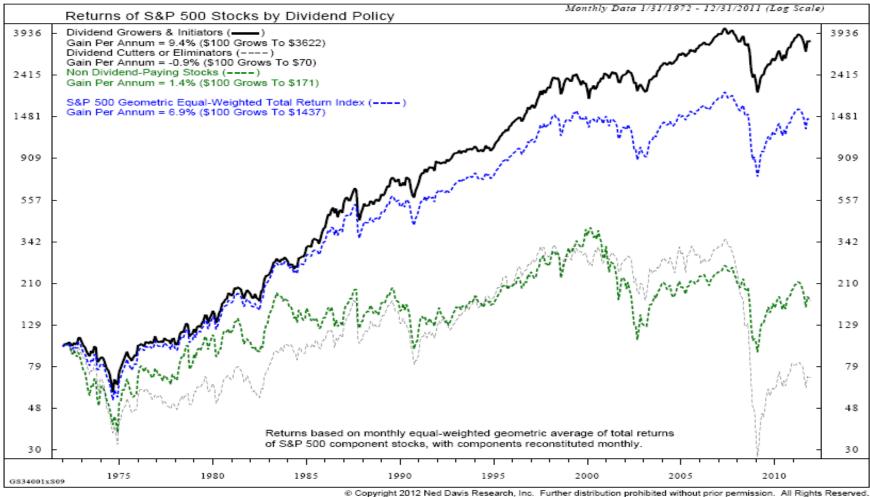


Source: J.P. Morgan Asset Management.; enters for Disease Control and Prevention. (Top) Projections assume a continuation of improvement observed in survival rates between 1990 and 2004. (Bottom) Graph uses historical data until 2005. Years 2006 through 2045 represent projections assuming a continuation of improvement observed in survival rates. Information as of 12/31/10.

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### Total Return of US Portfolios by Dividend Yield, 1972 – December 2011

### Driver of shift towards dividend paying stocks is simple: Aging demographics, diversification, current income and proven record



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Past performance is no guarantee of future results. This chart is for illustrative purposes only and is not representative of performance for any particular investment. Investments cannot be made in an index. Data from 1/31/1972 to 12/30/2011.

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S&P 500 Returns Contribution of Dividends to Total Return (%) 1926-2011				As a Share of Total Return	
	Total Return	Income Return	Capital Appreciation	Dividend Income	Price Appreciation
1926-29	18.80	4.94	13.86	26.28	73.72
1930's	0.33	5.59	(5.26)	n/m	n/m
1940's	8.93	5.95	2.98	66.63	33.37
1950's	19.20	5.63	13.57	29.32	70.68
1960's	7.72	3.33	4.39	43.13	56.87
1970's	5.72	4.12	1.60	72.03	27.97
1980's	17.35	4.77	12.58	27.49	72.51
1990's	18.13	2.82	15.31	15.55	84.45
2000's	(0.96)	1.76	(2.72)	n/m	n/m
2009-2011	8.27	2.07	6.20	25.03	74.97
1926-2011	9.68	4.20	5.48	43.39	56.61

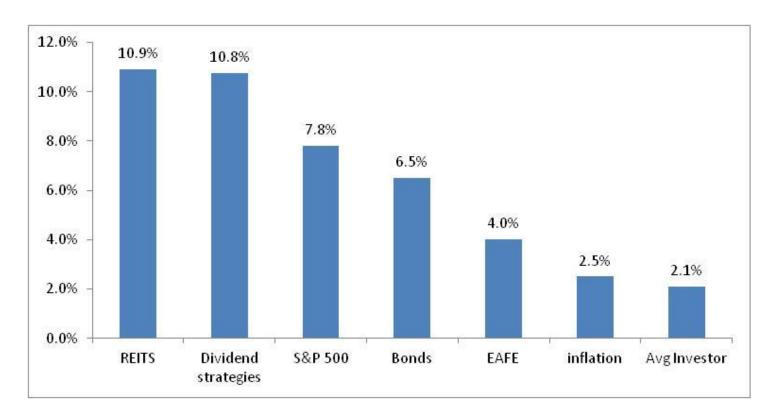
Past performance is no guarantee of future results. Investments cannot be made in an index.

This chart is for illustrative purposes only and is not representative of performance for any specific investment.

Source: Ned Davis Research, inc. Information as of 12/31/11

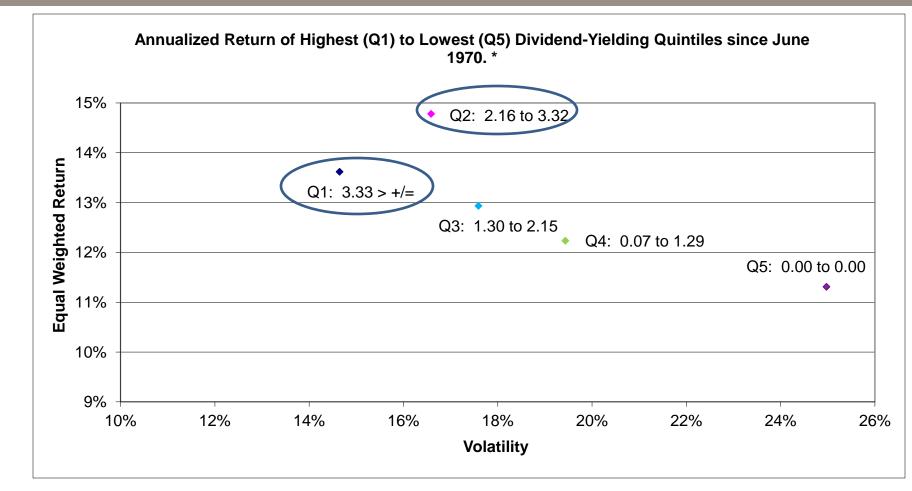
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#### Source: JPM Asset Management.

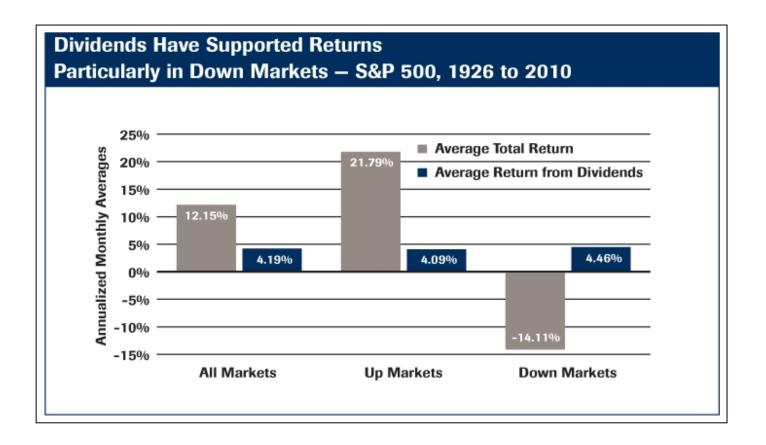
#### Value and Dividend strategy has historically outperformed with lower volatility



Source: FactSet March 2012 and Compustat.

\*The Universe is the largest 1000 U.S. firms by Market Cap. The equal-weighted Quintiles are rebalanced monthly through March 2012. Each stock in the universe is ranked from highest to lowest by indicated dividend yield at the end of every month. Q5 represents stocks that do not pay any dividends, and the rest of the stocks are split equally in number to the remaining four Quintiles, where Q1 contains the stocks with the highest dividend yield and Q4 the lowest of those that pay dividends. The monthly returns are equally weighted within the Quintiles. Past performance is no guarantee of future results. This chart is for illustrative purposes only and is not representative of any specific investment. There are no guarantees that dividend paying stocks will continue to pay dividends. In addition, dividend paying stocks may not experience the same capital appreciation potential as non-dividend paying stocks. Investments cannot be made into an index. Standard Deviation is a statistical measure of the historical volatility, using monthly returns. The higher the standard deviation, the greater the volatility.

#### **Dividends Help Us To Sleep**



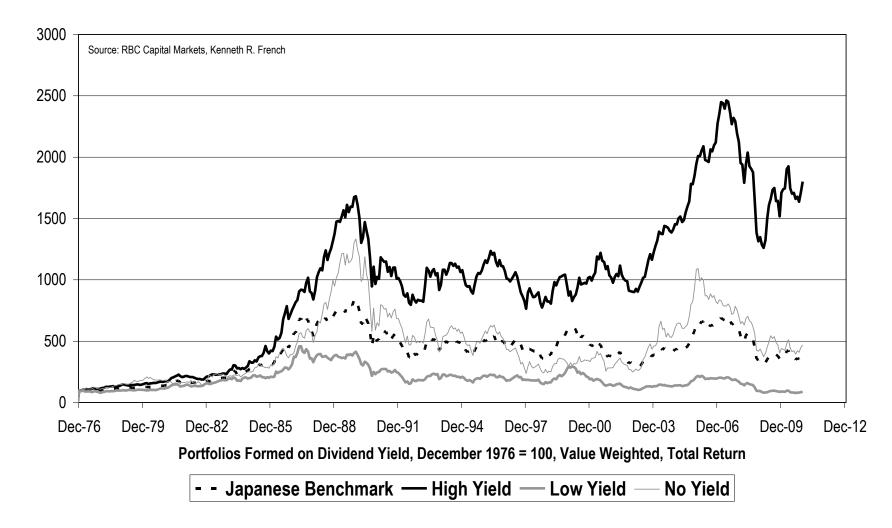
Source: Standard & Poors's. For the period beginning January 1, 1926, and ending December 31, 2010.

These charts are for illustrative purposes only and are not representative of the performance of any particular investment.

Past performance is no guarantee of future results

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### High Dividend Yields Worked During Japan's Lost Decades



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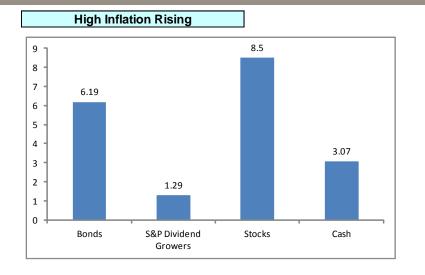
# Appendix

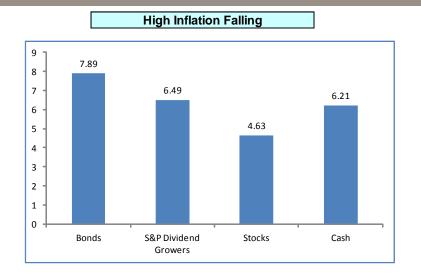
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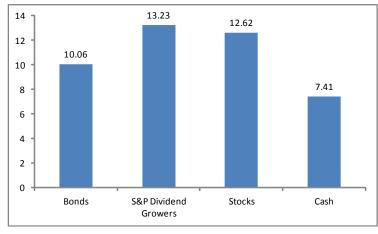
#### **Returns in Different Inflation Environments – 40 years**

Median Inflation 3.5%

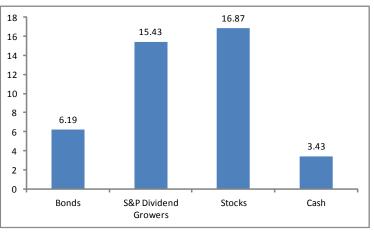




Low Inflation Rising



Low Inflation Falling



Source: Ned Davis Research Group; Date 5/4/12. High Inflation = Above 3.5% Mean / Low Inflation Below 3.5% Mean. Rising and Falling Inflation are defined to be the change in inflation rate from six months. Stocks = S&P 500. Total Return Bonds = Barclay US Aggregate Index since 1976 Long-Term Treasurys 1973 to 1975 ago. Stocks = S&P 500 Total Return. Cash = T-Bills.

### **Global Pension Assets Study 2012**

Key findings - figures

#### DB/DC Split 2011 Asset allocation 2011 DB DC Equity Bonds Other Cash 19% 81% Australia 50% 18% 23% 9% 39% 39% 20% 2% 96% Canada 6% 4% 98% 31% 59% Japan 93% 7% Netherlands 27% 58% 14% 1% 28% 40% 60% 27% 38% 7% Switzerland 1 61% 39% UK 45% 39% 14% 2% United States <sup>3</sup> 44% 31% 25% 43% 57% 2% 57% 43% World 41% 37% 20%

Source: Towers Watson and secondary sources

<sup>1</sup>DC assets in Switzerland are for cash balance plans

<sup>2</sup> Excludes Personal and Stakeholder DC assets <sup>3</sup> Includes IRAs

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### **Global pension assets growth rates** Compound annual growth rates – *local currency* – 2011e

Martint	Growth rates to 2011e (Local Currency)			
Market	5-year (31/12/06- 31/12/11) CAGR	10-year (31/12/01- 31/12/11) CAGR		
Australia	4.5%	9.2%		
Brazil	9.6%	14.3%		
Canada <sup>1</sup>	3.4%	5.6%		
France <sup>1</sup>	-3.7%	0.8%		
Germany	7.5%	5.7%		
Hong Kong	6.0%	10.3%		
Ireland	-2.3%	4.4%		
Japan	-4.9%	-0.7%		
Netherlands	1.6%	5.1%		
South Africa	10.5%	12.5%		
Switzerland	2.2%	3.5%		
UK <sup>2</sup>	4.5%	7.9%		
US <sup>3</sup>	3.0%	5.2%		
Average	3.2%	6.4%		

Source: Towers Watson and secondary sources