# State Investment Board Update

# **Employee Benefits Programs Committee**

September 25, 2012

Interim Chief Investment Officer
ND Retirement & Investment Office (RIO)
State Investment Board (SIB)

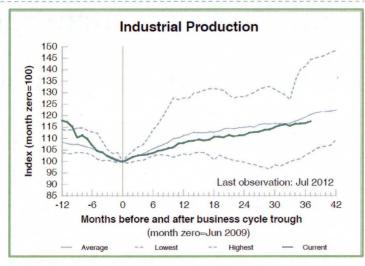
# **Presentation Agenda**

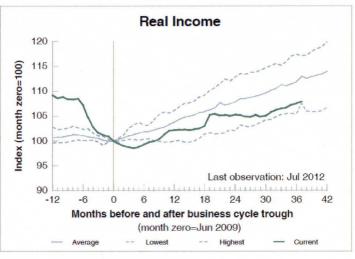
- > Investment climate
- > Asset class historical returns
- Pension investment performance
- Pension asset allocation

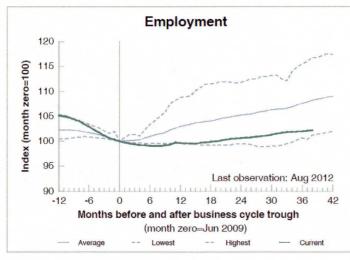
# **Fiscal Year Highlights**

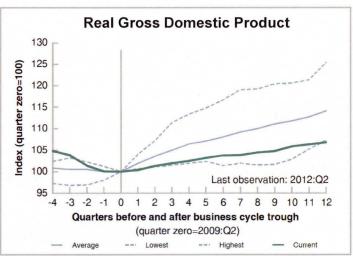
- Eurozone sovereign debt and European bank crisis
- U.S. debt ceiling crisis and S&P credit rating downgrade
- Weak U.S./developed market economic growth
- Slowdown in emerging market economies
- ▶ Fed action via sterilized QE 2.1, a.k.a. Operation Twist
- Persistent unemployment in the U.S.
- Signs of U.S. housing market recovery
- U.S. manufacturing resurgence

### **Current Recovery Versus Past Cycles**





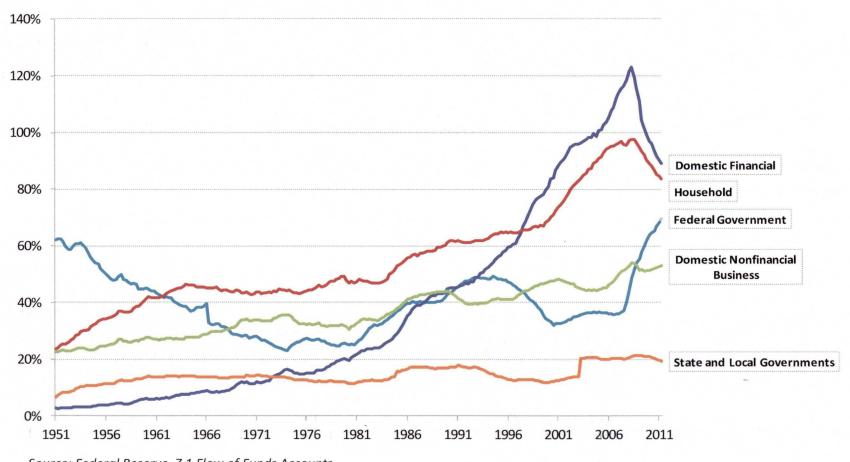




Source: Federal Reserve Bank of St. Louis

### Debt Outstanding by Sector as a % of Total U.S. GDP

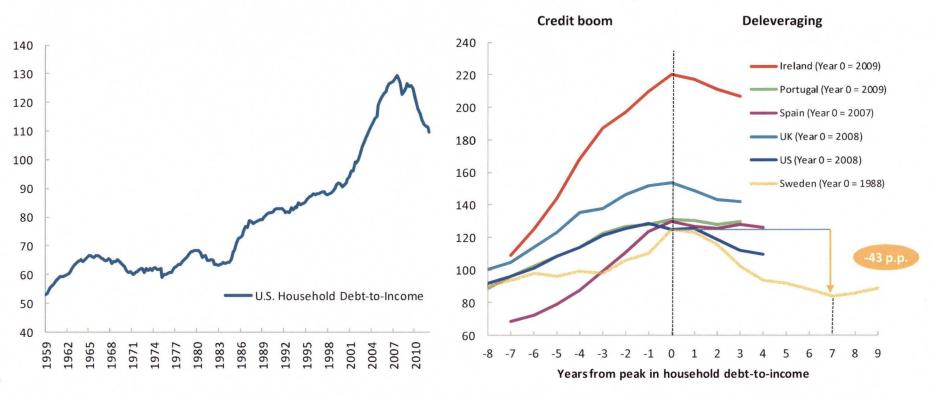
U.S. private sector debt has fallen relative to GDP since 2008, while public debt has reached its highest level since World War II.



### Household Debt as a % of Disposable Income

The accumulation of debt in the U.S. household sector has occurred over three decades.

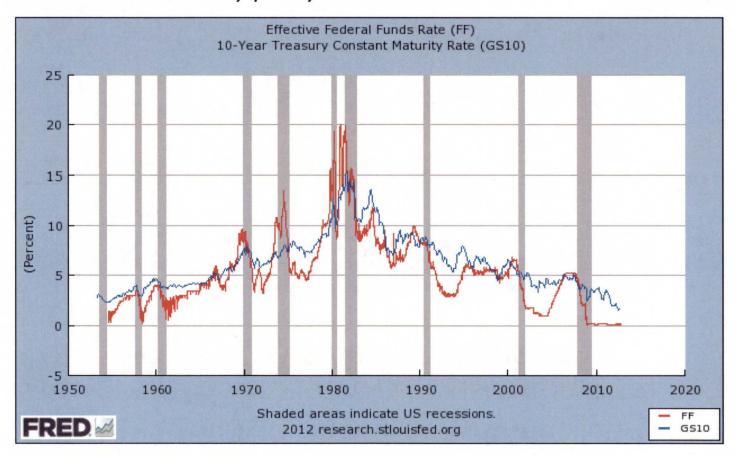
The U.S. is ahead of other developed countries in deleveraging, but household debt remains high.



Source: Federal Reserve Bank of St. Louis, Haver Analytics, Statistics Sweden, McKinsey Global Institute

### **Interest Rate Environment**

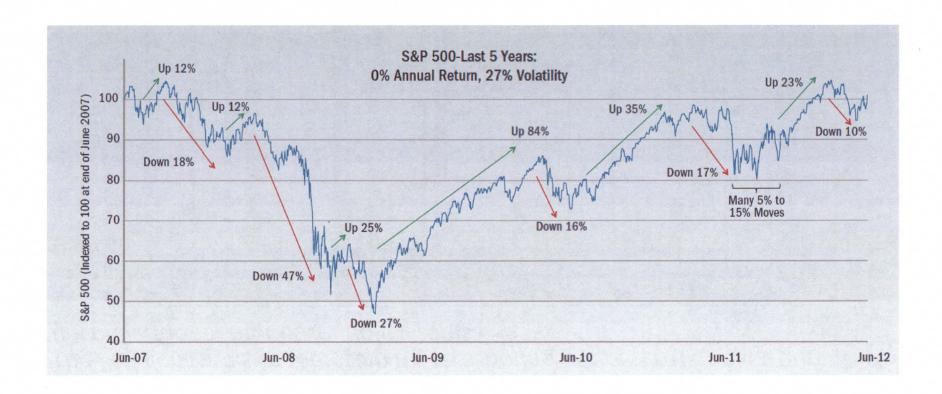
The Fed continues to maintain its zero-bound interest rate policy and utilize unconventional monetary policy tools.



Source: Federal Reserve Bank of St. Louis

## U.S. Equity Market: A Long, Tumultuous Journey

Since June 2007, the S&P 500 has exhibited high volatility, a zero nominal return, and negative returns when adjusted for inflation.



Source: Standard & Poor's

# **Historical Market Returns by Asset Class**

		Periods Ended June 30, 2012							
Asset Class	Represented by	1 Year	3 Year	5 Years	10 Years	20 Years	25 Years	30 Years	
Large Cap US Stocks	Russell 1000	4.37%	16.64%	0.39%	5.72%	8.52%	8.77%	11.61%	
Small Cap US Stocks	Russell 2000	-2.08%	17.80%	0.54%	7.00%	8.96%	8.12%	10.53%	
Non-US Stocks (Developed)	MSCI EAFE	-13.83%	5.96%	-6.10%	5.14%	5.27%	4.34%	9.53%	
Non-US Stocks (Emerging)	MSCI Emerging Mkts	-15.67%	10.10%	0.21%	14.42%	8.31%			
US Bonds	BC Aggregate	7.47%	6.93%	6.79%	5.63%	6.48%	7.28%	8.82%	
High Yield Bonds	BC High Yield Credit	7.27%	16.29%	8.45%	10.16%	8.06%	8.54%		
Non-US Sovereign Debt	Citi World Gov't Bond ex US	0.44%	5.13%	7.39%	7.15%	6.35%	7.16%	ř.	
Inflation Protected	BC Global Inflation Linked	4.25%	7.04%	6.13%	7.67%				
Real Estate	NCREIF	12.04%	8.82%	2.51%	8.29%	8.41%	7.39%	7.96%	
TFFR Total Fund (net of fees)		-0.96%	11.87%	-1.24%	6.01%	7.06%	7.58%	8.79%	
PERS Total Fund (net of fees)		0.06%	11.36%	-0.32%	6.29%	7.53%	7.61%	9.57%	

Source: Callan

# Callan Periodic Table of Investment Returns Fiscal Year Returns (1993-2012) Ranked in Order of Performance

1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Russell	MSCI	S&P 500	S&P 500	S&P 500	S&P 500	MSCI	MSCI EAFE		Barclays	Barclays	MSCI	MSCI	MSCI	MSCI	NCREIF:Total	Barclays	MSCI	Russell	NCREIF:Total
2000	Emerging Markets					Emerging		index	Aggregate	Aggregate	Emerging	Emerging	Emerging	Emerging	Index	Aggregate	Emerging	2000	Index
26.0%	37.2%	26.1%	26.0%	34.7%	30.2%	Markets 28.7%	17.2%	11.6%	8.6%	10.4%	Markets 33.5%	Markets 34.9%	Markets 35.9%	Markets 45.5%	9.2%	6.0%	Markets 23.5%	37.4%	12.0%
MSCI EAFE	MSCI EAFE	Russell	Russell	Total Fund-	NCREIF: Total	S&P 500	Russell	Barclays	NCREIF:Total	NCREIF:Tota	Russell	NCREIF: Total	MSCI EAFE	MSCI EAFE	Barclavs	NCREIF Total	Russell	S&P 500	Barclays
		2000	2000	PERS Net	Index		2000	Aggregate	Index	Index	2000	Index			Aggregate	Index	2000		Aggregate
20.20	17.0%	20.1%	23.9%	19.7%	47.50	22.8%	44.00	44.004		W 004	-							30.7%	
20.3% MSCI	Russell	Total Fund	Total Fund	Marie Carlos Car	17.5% Russell	NCREIF:Total	14.3%	11.2% Russell	5.5% MSCI	7.6% MSCI	33.4%	18.0%	26.6% NCREIF:Tota	27.0% S&P 500	7.1% MSCI	(19.6%)	21.5% S&P 500	MSCI EAFE	7.5% S&P 500
Emerging	2000	PERS Net	PERS Net	Total Fund-	2000	Index	Total Fund- TFFR Net	2000	Emerging	Emerging	MSCIEAFE	Total Fund PERS Net	Index	S&P 300	Emerging	Total Fund- PERS Net	S&P 300	WISCIEAFE	S&P 500
Markets									Markets	Markets					Markets			To the	
18.6%	4.3%	14.3%	15.8%	19.3%	16.5%	12.8%	11.6%	0.6%	1.3%	7.0%	32.4%	14.1%	18.7%	20.6%	4.9%	(24.5%)	14.4%	30.4%	5.4%
Total Fund-	NCREIF:Total	Total Fund-	Total Fund-	Russell	Total Fund-	Total Fund-	NCREIF: Total	Total Fund-	Total Fund-	Total Fund-	Total Fund-	MSCI EAFE	Total Fund-	Total Fund-	Total Fund-	Russell	Total Fund-	MSCI	Total Fund-
TFFR Net	Index	TFFR Net	TFFR Net	2000	PERS Net	TFFR Net	Index	PERS Net	PERS Net	PERS Net	TFFR Net		TFFR Net	TFFR Net	PERS Net	2000	TFFR Net	Emerging Markets	PERS Net
15.0%	3.7%	13.7%	15.3%	16.3%	16.1%	11.1%	11.6%	(3.9%)	(6.8%)	5.5%	19.3%	13.7%	14.8%	20.0%	(5.6%)	(25.0%)	13.8%	28.2%	0.1%
Total Fund-	Total Fund-	Barclavs	MSCI EAFE	MSCI EAFE	Total Fund-	Total Fund-	MSCI	Total Fund-	Russell	Total Fund-	S&P 500	Total Fund-	Russell	Total Fund-	Total Fund-	S&P 500	Total Fund-	Total Fund-	Total Fund-
PERS Net	PERS Net	Aggregate			TFFR Net	PFRS Net	Emerging	TFFR Net	2000	TFFR Net		TFFR Net	2000	PERS Net	TFFR Net		PERS Net	TFFR Net	TFFR Net
							Markets												Bank Str
15.0%	1.5%	12.5%	13.3%	12.8%	14.0%	10.6%	9.5%	(7.0%)	(8.6%)	2.3%	19.1%	13.3%	14.6%	19.0%	(7.5%)	(26.2%)	13.7%	24.2%	(1.0%)
S&P 500	S&P 500	NCREIF:Total	MSCI Emerging	MSCI Emerging	Barclays Aggregate	MSCI EAFE	Total Fund- PERS Net	S&P 500	Total Fund- TFFR Net	S&P 500	Total Fund- PERS Net	Russell 2000	Tota Fund- PERS Net	NCREIF:Total	MSCIEAFE	Total Fund- TFFR Net	Barclays	Total Fund- PERS Net	Russell 2000
		Index	Markets	Markets	Aggregate		PERS NEL		IFFK Net		HENS Net	2000	PERS Net	Index		I FFR Net	Aggregate	PERS Net	2000
13.6%	1.4%	7.8%	8.5%	12.8%	10.5%	7.6%	9.3%	(14.8%)	(8.9%)	0.3%	16.6%	9.4%	12.0%	17.2%	(10.6%)	(27.4%)	9.5%	21.4%	(2.1%)
Barclays	Total Fund-	MSCI EAFE	NCREIF: Total	NCREIF:Total	MSCIEAFE	Barclays	S&P 500	MSCI EAFE	MSCI EAFE	Russell	NCREIF:Total	Barclays	S&P 500	Russell	S&P 500	MSCI	MSCI EAFE	NCREIF: Total	MSCI EAFE
Aggregate	TFFR Net		Index	Index		Aggregate				2000	Index	Aggregate		2000		Emerging		Index	
44.00/	4 000			40.00		2 404						0.001			TO THE STATE OF	Markets			
11.8% NCREIF:Total	1.2% Barclays	1.7% MSCI	8.1% Barclavs	10.8% Barclays	6.1% MSCI	3.1% Russell	7.2% Barclays	(23.6%) MSCI	(9.5%) S&P 500	(1.6%) MSCI EAFE	10.8% Barclays	6.8% S&P 500	8.6% Barclays	16.4% Barclavs	(13.1%)	(27.8%) MSCI EAFE	5.9% NCREIF:Total	16.7% Barclavs	(13.8%) MSCI
Index	Aggregate	Emerging	Aggregate	Aggregate	Emerging	2000	Aggregate	Emerging	Gar 300	MOUTEAFE	Aggregate	30F 30U	Aggregate	Aggregate	Russell 2000	MOCHEAFE	Index	Aggregate	Emerging
	39 -9-7	Markets	30 -0-10	999-10	Markets		99-9-10	Markets			999-10		.9994.0	35.09.10				99.09010	Markets
(2.7%)	(1.3%)	0.0%	5.0%	8.1%	(39.1%)	1.5%	4.6%	(25.8%)	(18.0%)	(6.5%)	0.3%	6.3%	(0.8%)	6.1%	(16.2%)	(31.4%)	(1.5%)	3.9%	(15.7%)

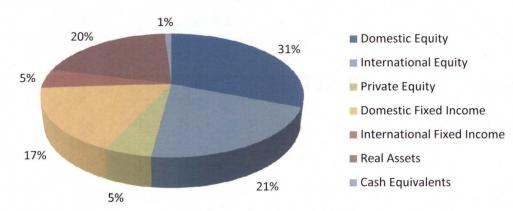
Source: Callan

# Asset Class & Total Fund Investment Performance Fiscal Year Ended June 30, 2012

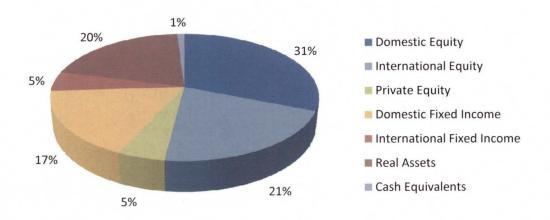
	Actual Return		
	(Net)	Benchmark	Difference
Global Equity			
US Large Cap Equity	3.35%	5.34%	-1.99%
US Small Cap Equity	-0.37%	-2.08%	1.71%
International Equity	-15.15%	-13.83%	-1.32%
Emerging Markets Equity	-9.98%	-15.95%	5.97%
Private Equity	5.12%	5.12%	0.00%
Global Fixed Income			
US Investment Grade Fixed Income	5.99%	7.47%	-1.48%
US High Yield	3.06%	7.21%	-4.15%
International Fixed Income	4.25%	-0.64%	4.89%
Global Real Assets			
Real Estate	12.46%	12.04%	0.42%
Total Fund			
TFFR (net)	-0.96%	-0.82%	-0.14%
PERS (net)	0.06%	1.17%	-1.11%

### **Pension Asset Allocation**

### **TFFR Target Allocation**



#### **PERS Target Allocation**



# **Fiscal Year SIB Activity**

- New asset allocation framework adopted by PERS, TFFR and other pension clients
- Fixed income allocation restructured to deliver enhanced riskadjusted returns via reduced credit exposure
- Global equity mandate structure is currently being reviewed and a phased restructuring is pending
- In the low return, high volatility climate, we have been seeking to do the following:
  - Emphasize current income
  - Adopt a more global perspective with less emphasis on "style boxes"
  - Dampen the sensitivity to equity market volatility
  - Reduce investment management fees

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