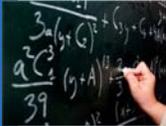




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State of the State's Pensions

Matt Smith, FCA, EA, MAAA
State Actuary

October 18, 2011

State Of The State's Pensions

- A national leader in pensions
- Certain risks and challenges ahead
- Opportunities to plan for the future and remain a national leader

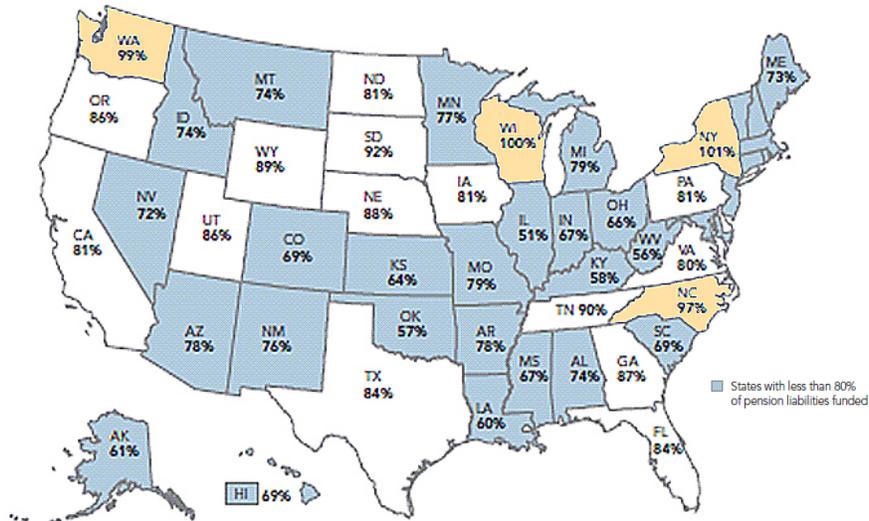


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1

Top Three Funded Status Nationally



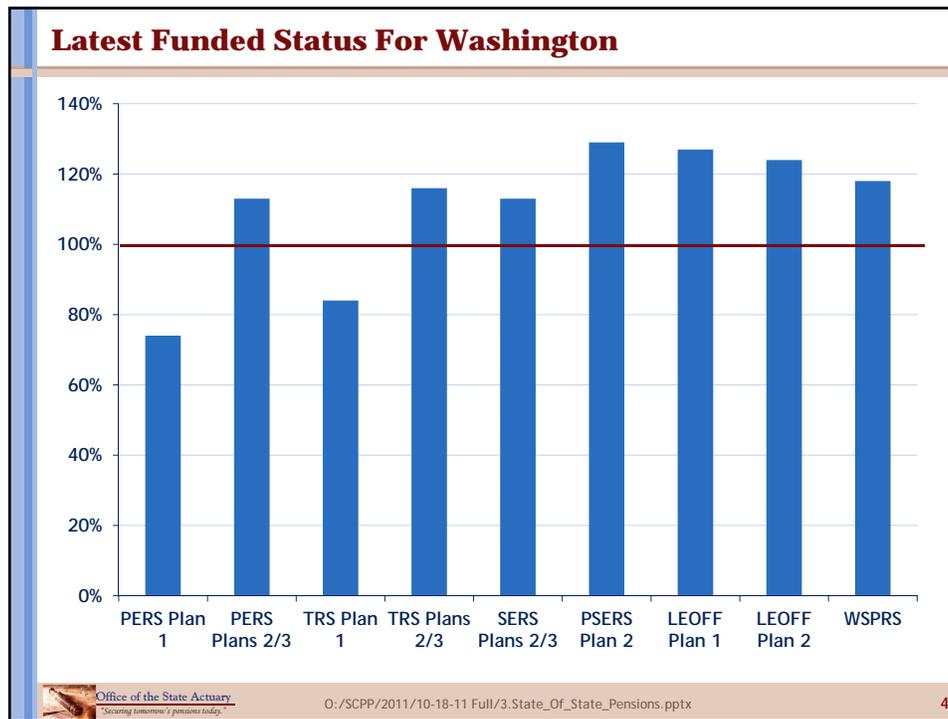
Source: The PEW Center on the States April 25, 2011, report, "The Widening Gap: The Great Recession's Impact on State Pension and Retiree Health Care Costs."

Latest Funded Status For Washington

Funded Status on an Actuarial Value Basis*											
(Dollars in Millions)	PERS		TRS		SERS	PSERS		LEOFF		WSPRS	Total
	Plans		Plans		Plans	Plan 2		Plan 1	Plan 2		
	Plan 1	2/3	Plan 1	2/3	2/3	Plan 2	Plan 1	Plan 2			
Accrued Liability	\$12,531	\$17,272	\$9,231	\$5,708	\$2,368	\$80	\$4,381	\$4,863	\$782	\$57,216	
Valuation Assets	\$9,293	\$19,474	\$7,791	\$6,593	\$2,664	\$103	\$5,561	\$6,043	\$920	\$58,442	
Unfunded Liability	\$3,238	(\$2,202)	\$1,439	(\$886)	(\$296)	(\$23)	(\$1,180)	(\$1,179)	(\$137)	(\$1,226)	
Funded Ratio											
2010	74%	113%	84%	116%	113%	129%	127%	124%	118%	102%	

Note: Totals may not agree due to rounding. June 30, 2010, valuation date.

*Accrued liabilities represent the present value of future benefits for current members earned at the valuation date assuming an expected rate of return on assets of 8% per year. All assets have been valued under the actuarial asset method (the "smoothing" method).



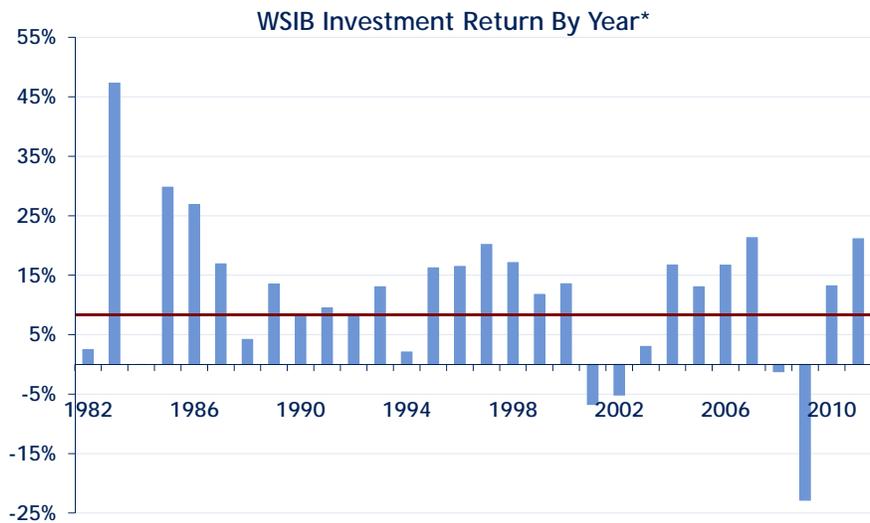
Top Investment Performance

- WSIB's ten-year returns through June 30, 2010, after fees, best for public funds
- Based on Bloomberg survey of public pension funds with more than \$20 billion in assets
- According to Bloomberg, WSIB's ten-year returns benefitted from investments in
 - Private equity
 - Real estate

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Historical Investment Returns



*Fiscal year ending June 30.



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Complex Plans With Cost Effective Administration

- Third most complex public pension plan/system
- DRS' cost per active member and annuitant well below peer average
 - \$59 for DRS
 - \$82 for peer average
- According to CEM Benchmarking analysis



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Litigation Risks Remain

- Potential reinstatement of recently repealed benefits would weaken affected plans' financial health
 - Gain-sharing benefits in PERS 1, TRS 1, and Plan 3
 - PERS 1 and TRS 1 Uniform Cost-of-Living-Adjustment (UCOLA)
- Full analysis included in recent Report on Financial Condition
- Potential funded status and budget impacts

Funded Status Impacts

Funded Status on an Actuarial Value Basis				
	2010 Funded Status ¹	Funded Status After Restoration of Gain-Sharing ²	Funded Status After Restoration of UCOLA ³	Funded Status After Restoration of Gain-Sharing and UCOLA ⁴
PERS 1	74%	72%	66%	63%
PERS 2/3	113%	112%	N/A	112%
TRS 1	84%	82%	72%	70%
TRS 2/3	116%	109%	N/A	109%
SERS 2/3	113%	105%	N/A	105%
PSERS 2	129%	N/A	N/A	N/A
LEOFF 1	127%	N/A	N/A	N/A
WSPRS	118%	N/A	N/A	N/A

¹Based on preliminary 2010 Actuarial Valuation results (preliminary AVR).

²Based on preliminary AVR results after restoration of gain-sharing and continuation of replacement benefits.

³Based on preliminary AVR results after restoration of UCOLA.

⁴Based on preliminary AVR results after restoration of gain-sharing and UCOLA.

2013-15 GF-S Budget Impacts

2013-15 Employer Contributions from the State General Fund				
(Dollars in Millions)	Expected Contributions ¹	Increase in Contributions After	Increase in Contributions After	Increase in Contributions After
		Restoration of Gain-Sharing ²	Restoration of UCOLA ³	Restoration of Gain-Sharing and UCOLA ⁴
PERS	\$296.7	\$26.1	\$73.7	\$104.1
TRS	583.3	142.1	300.8	459.4
SERS	122.9	36.5	28.5	66.7
PSERS	36.2	1.8	7.4	9.6
Total	\$1,039.2	\$206.5	\$410.5	\$639.7

Note: Totals may not agree due to rounding.

¹Based on preliminary 2010 Actuarial Valuation results (preliminary AVR).

²Based on preliminary AVR results after restoration of gain-sharing and continuation of replacement benefits.

³Based on preliminary AVR results after restoration of UCOLA.

⁴Based on preliminary AVR results after restoration of gain-sharing and UCOLA.

2013-15 Total Employer Budget Impacts

2013-15 Total Employer Contributions				
(Dollars in Millions)	Expected Contributions ¹	Increase in Contributions After	Increase in Contributions After	Increase in Contributions After
		Restoration of Gain-Sharing ²	Restoration of UCOLA ³	Restoration of Gain-Sharing and UCOLA ⁴
PERS	\$1,489.5	\$131.1	\$370.1	\$522.4
TRS	879.8	214.3	453.6	692.9
SERS	275.8	81.8	64.0	149.5
PSERS	51.0	2.5	10.5	13.6
Total	\$2,696.1	\$429.8	\$898.2	\$1,378.4

Note: Totals may not agree due to rounding.

¹Based on preliminary 2010 Actuarial Valuation results (preliminary AVR).

²Based on preliminary AVR results after restoration of gain-sharing and continuation of replacement benefits.

³Based on preliminary AVR results after restoration of UCOLA.

⁴Based on preliminary AVR results after restoration of gain-sharing and UCOLA.

Recovery Underway, Not Complete

- Investment returns of 13.2 and 21.1 percent for last two fiscal years
- Recovered most, but not all of past investment losses from Great Recession
- Actuarial funding based on “smoothed” investment returns



Basics On Asset Smoothing

- Start with market value of assets each year
- Calculate expected return for given year
- Gain/loss is difference between actual and expected return
 - For example, 10 percent return is a 2 percent actuarial gain (2 = 10 - 8 percent)
- Annual gain/loss spread over set number of years
 - Larger the gain/loss → longer the smoothing period
- Spread over no more than eight years

Actuarial Assets At June 30, 2010

Calculation of Actuarial Value of Assets	
All Plans	
(Dollars in Millions)	Total
a. Market Value at 6/30/2010	\$48,700
b. Deferred Gains and (Losses)	
Plan Year Ending	
6/30/2010	1,926
6/30/2009	(13,308)
6/30/2008	(3,405)
6/30/2007	2,744
9/30/2006	1,337
9/30/2005	964
Total Deferral	(\$9,742)
c. Market Value less Deferral (a-b)	\$58,442
d. 70% of Market Value of Assets	\$34,090
e. 130% of Market Value of Assets	\$63,310
f. Actuarial Value of Assets*	\$58,442

Note: Totals may not agree due to rounding.

*Actuarial Value of Assets can never be less than 70% or greater than 130% of the market value of assets.

Actuarial Assets At June 30, 2011 - Preliminary

Calculation of Actuarial Value of Assets	
All Plans	
(Dollars in Millions)	Total
a. Market Value of Assets	\$58,995
b. Deferred Gains and (Losses)	
Plan Year Ending	
6/30/2011	5,599
6/30/2010	1,531
6/30/2009	(11,090)
6/30/2008	(2,724)
6/30/2007	2,058
9/30/2006	892
9/30/2005	482
Total Deferral	(\$3,252)
c. Market Value less Deferral (a-b)	\$62,247
d. 70% of Market Value of Assets	\$41,297
e. 130% of Market Value of Assets	\$76,694
f. Actuarial Value of Assets*	\$62,247

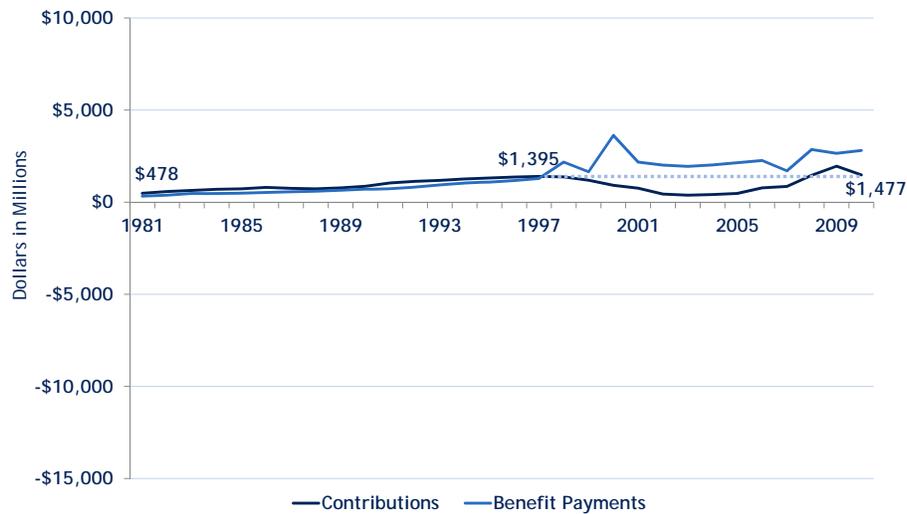
Note: Totals may not agree due to rounding.

*Actuarial Value of Assets can never be less than 70% or greater than 130% of the Market Value of Assets.

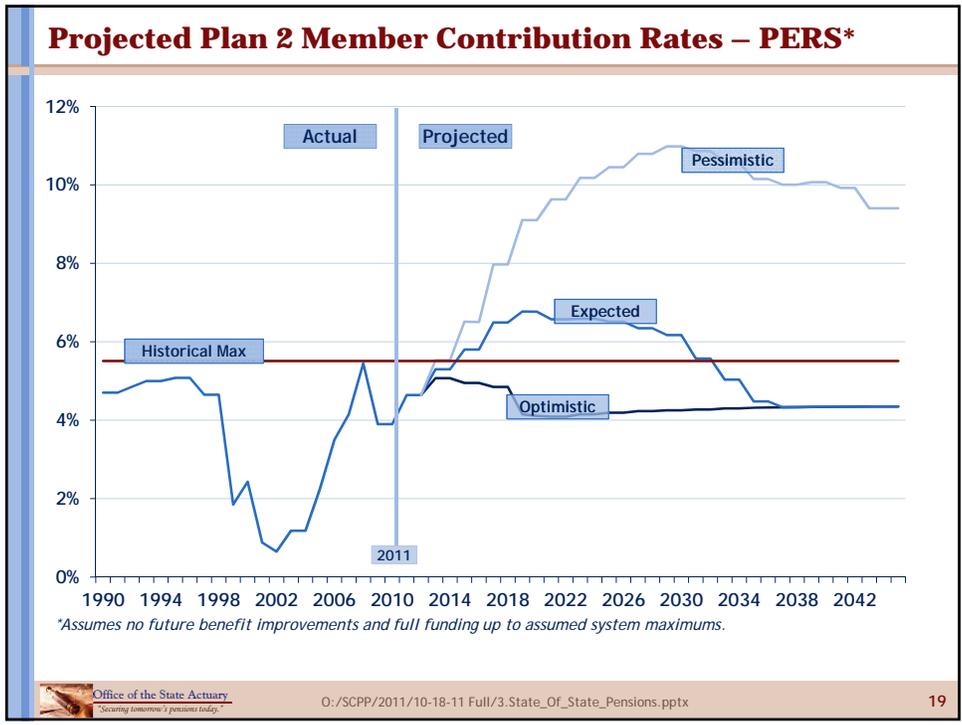
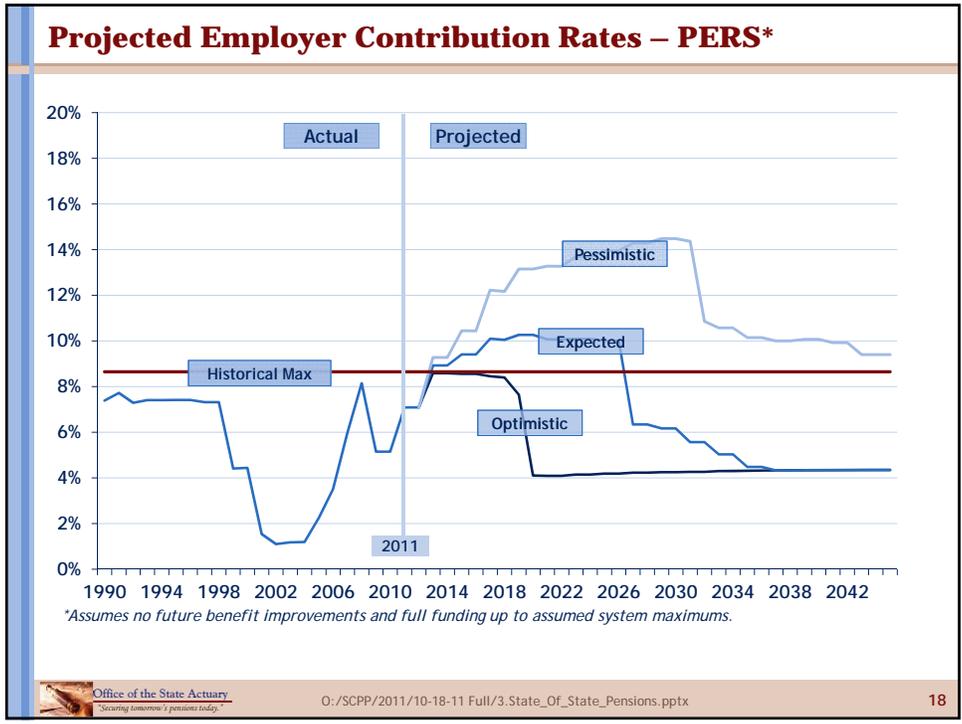
Future Contribution Increases Expected

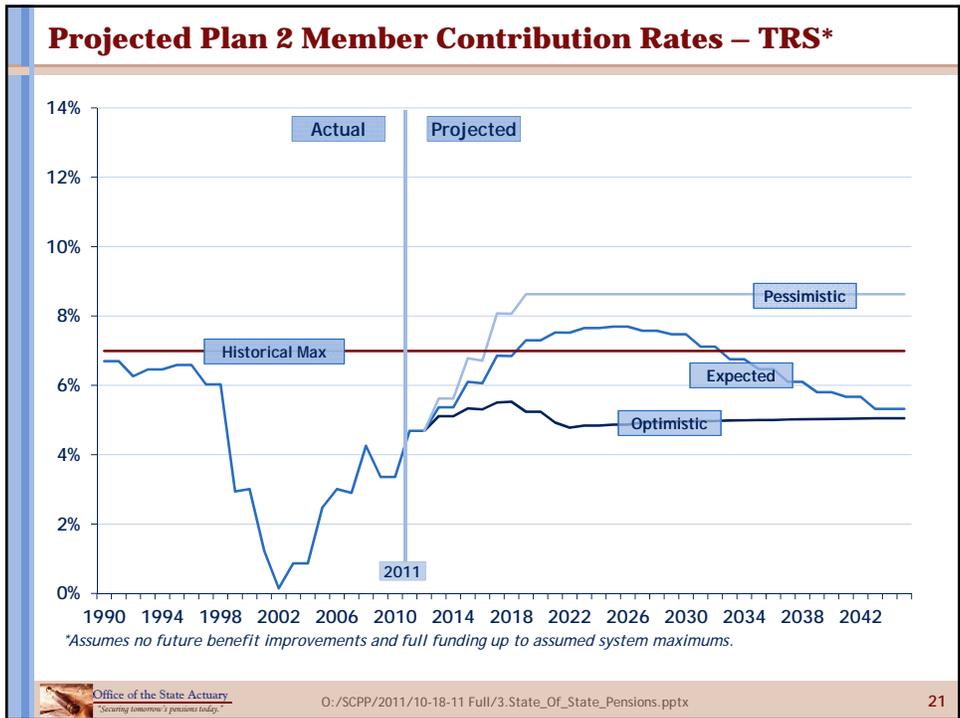
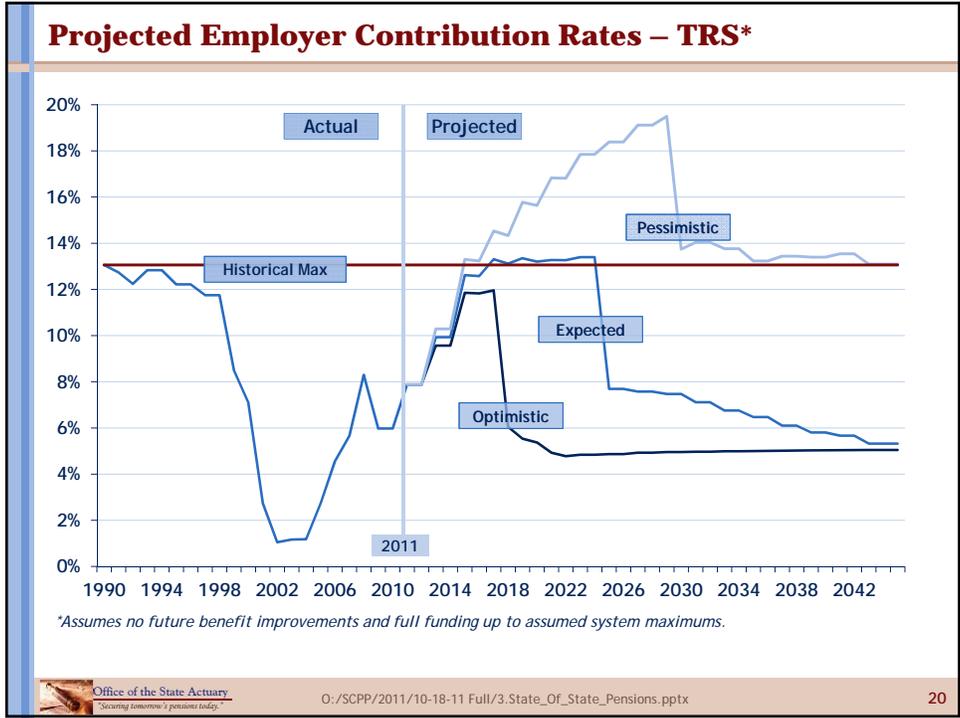
- With \$3.3 billion in deferred investment losses at June 30, 2011, we expect contributions to increase above current levels
- Current contributions also below long-term levels
- Completing phase-in of new Plan 1 funding method
 - Phasing-in higher Plan 1 contribution requirements
 - Phase-in complete at beginning of 2015-17
- Important note: future contribution increases depend on actual investment performance plus actual funding and benefit levels

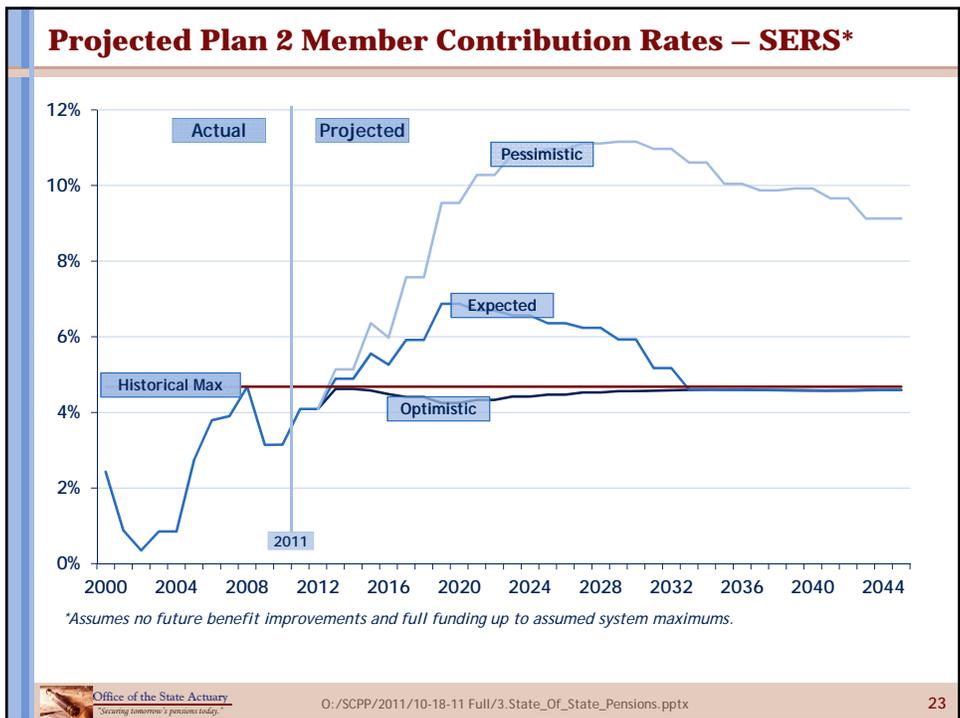
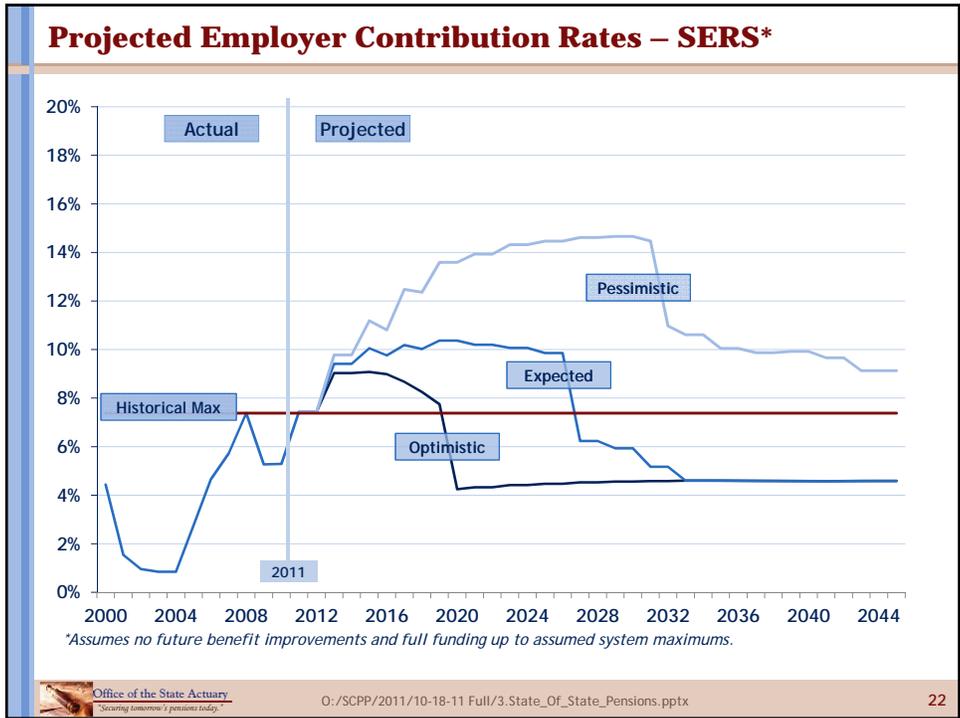
Current Contributions Below Long-Term Levels



Note: The volatility of the Benefit Payments is attributable to gain-sharing payments, Plan 3 transfer payments, the creation of new retirement systems, and valuation date changes that occurred from 1997 - 2008.



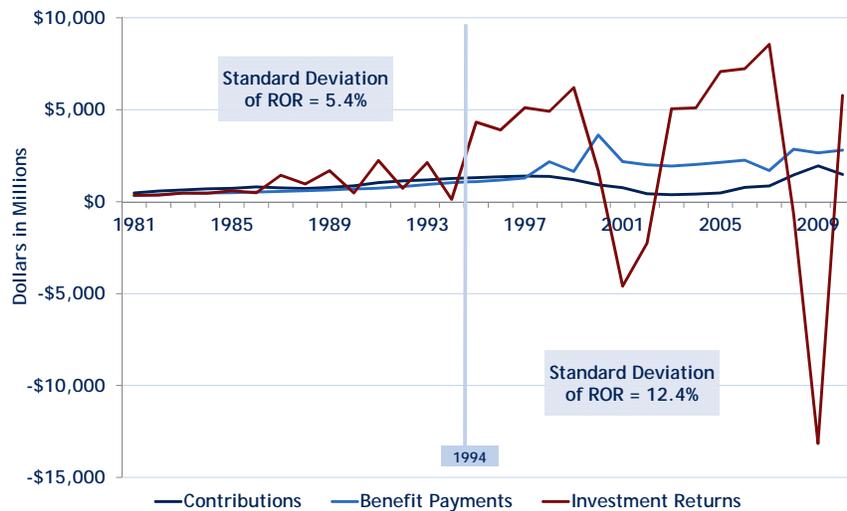




Planning For The Future

- Full and stable long-term funding required to maintain plan health and sustainable costs
- Expected returns around 8 (or 7.5) percent require investment risk
 - WSIB mandate: “maximize returns at a prudent level of risk”
- Premium returns come with expected, inevitable volatility
 - Positive and negative volatility
- Portfolio volatility has increased over time
- Full funding and maintenance of sustainable plan designs will help systems weather future volatility
 - Reap full rewards of investment policy
- Some funding policies already in place to manage volatility

Portfolio Volatility Increased Over Time



Note: The volatility of the Benefit Payments is attributable to gain-sharing payments, Plan 3 transfer payments, the creation of new retirement systems, and valuation date changes that occurred from 1997 - 2008.

Current Funding Policies To Manage Volatility

- Asset smoothing method
 - Defer annual asset gains/losses up to eight years
 - Unique method among public plans
 - Highly effective at managing volatility; requires long-term discipline
 - Treat gains and losses the same
- Minimum contribution rates
 - Asset smoothing alone is not enough
 - Minimum contribution rates provide additional layer to protect against prematurely lowering contribution requirements during upward volatility



Future Opportunities To Manage Volatility

- Ensure future benefit improvements are affordable and sustainable before adoption
- How should we measure the affordability of future benefit improvements?
 - At market highs and when government revenues peak?
 - At market lows and the lowest levels of revenue?
- Use new risk tools and analysis

State Of The State's Pensions

- Top three funded status nationally
- Best investment performance over past ten years
- Complex plans with cost effective administration
- Litigation risks remain
- Recovery underway, not complete
- Future contribution increases expected
- Full and stable long-term funding required to maintain plan health and sustainable costs
- Opportunities to plan for the future and remain a national leader



Questions?





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Appendix





