# Public Employee Retirement System (PERS) Teachers Retirement System (TRS) FALL 2013 UPDATE



## PERS / TRS Basic Facts Organization



Dept. of Revenue
Treasury Division

Invests retirement system assets

Investment Advisory Committee

General Consultant

Staff

External
Investment
Management

Internal Investment Managemen Alaska Retirement Management Board

Sets contribution rates, invests retirement system assets

**Dept. of Administration Division of Retirement & Benefits** 

Administers retirement and benefits system

Staff

Actuary

Third Party Admin.

## PERS / TRS Basic Facts Membership



#### **MEMBERSHIP STATISTICS AS OF JUNE 30, 2013**

	PERS				TRS			JRS	NG	SBS	DCP		
	al.	DB		DC	4	D	В	DC	· ·	-			
	Tier I	Tier II	Tier III	Tier IV	TOTAL	Tier I	Tier II	Tier III	TOTAL				
Active Members	3,313	5,864	12,299	14,795	36,271	1,197	5,661	3,735	10,593	72	n/a	28,245	7,642
Terminated Members	2,417	5,274	11,337	6,495	25,523	542	2,615	1,276	4,433	4	n/a	13,415	2,568
Retirees & Beneficiaries	22,941	5,142	1,608	4	29,695	10,290	1,098	-	11,388	110	657	n/a	n/a
Managed Accounts	n/a	n/a	n/a	6,748	6,748	n/a	n/a	1,783	1,783	n/a	n/a	900	834
Retirements - 4th QTR FY13	259	164	109	n/a	532	22	16	n/a	38	-	42	n/a	n/a
Full Disbursements - 4th QTR FY13 Partial Disbursements - 4th QTR FY13	38 n/a	26 n/a	117 n/a	350 28	531 28	7 n/a	24 n/a	39 4	70 4	0 n/a	n/a n/a	639 433	154 447

Source: Div. Retirement & Benefits

## PERS / TRS Basic Facts Defined Benefits

**Defined Benefit Pension:** fixed benefit amount from date of retirement to death

## **Contributions + Investment Earnings = Benefits + Expenses**

IF

All actuarial assumptions are accurate

### **Actuarial Assumptions:**

Inflation, Investment Return, Mortality, Date of Retirement, Cost of Healthcare, Payroll Growth, Disability, Spouse Age, Dependent Children, COLA, Plan Expenses, Turnover

Inaccurate Projections Lead to Unfunded Liability

**Employer Takes the Risk** 

## PERS / TRS Basic Facts Contributions — Employee



$$\mathbf{C} + \mathbf{I} = \mathbf{B} + \mathbf{E}$$

PERS Other Employee Contribution Rate: 6.75%

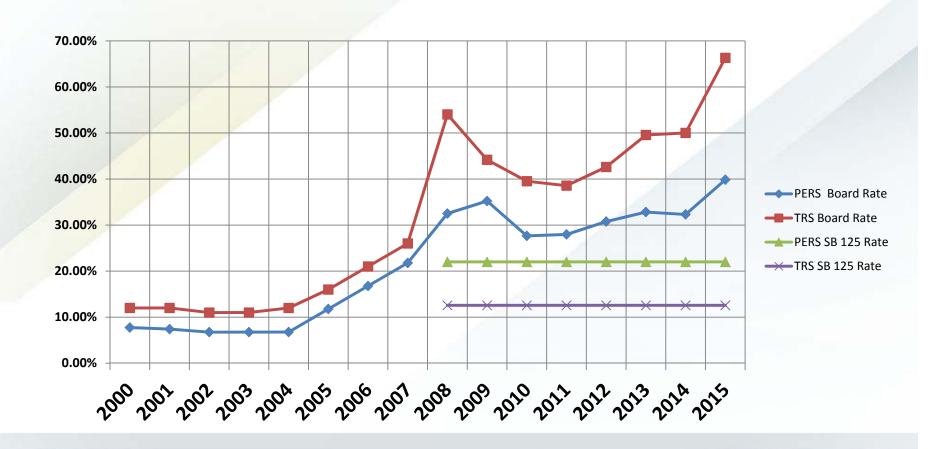
PERS Police / Fire Employee Contribution Rate: 7.5%

TRS Employee Contribution Rate: 8.65%

## PERS / TRS Basic Facts Contributions — Employer



$$\mathbf{C} + \mathbf{I} = \mathbf{B} + \mathbf{E}$$



## PERS / TRS Basic Facts Investment Returns



$$C + I = B + E$$

ARM Board Annualized Returns Through FY 2013						
Annualized Returns	PERS	TRS	Average			
29 year	9.07%	9.43%	9.26%			
25 Year	8.12%	8.13%	8.12%			
20 year	7.27%	7.30%	7.29%			
15 Year	5.43%	5.47%	5.45%			
10 Year	6.94%	6.99%	6.97%			
5 Year	3.92%	3.98%	3.95%			
3 Year	11.05%	11.15%	11.10%			
1 Year	12.50%	12.59%	12.55%			

## PERS / TRS Basic Facts Benefits



$$C + I = \mathbf{B} + E$$

#### **DB Benefit Amount:**

Sum of Multipliers x Avg. High 3 (Tier 1-2) or Avg. High 5 (Tier 3)

PERS Multipliers: 2% first 10 yrs; 2.25% second 10 yrs; 2.5% thereafter

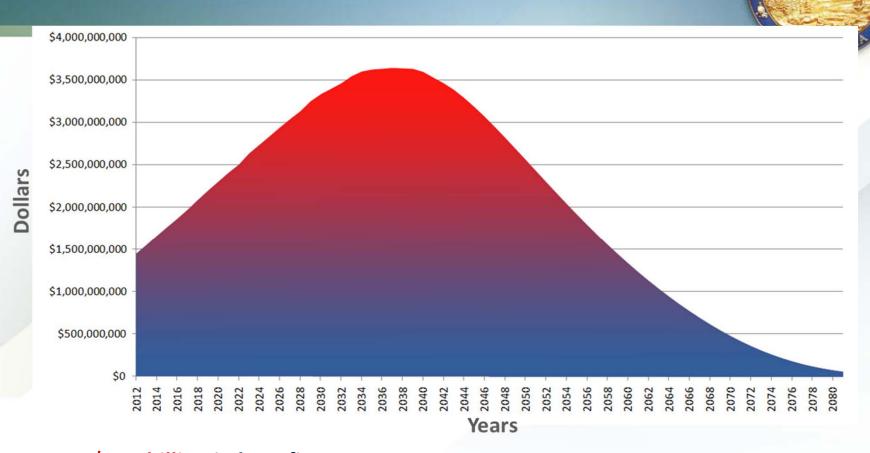
TRS Multipliers: 2% first 20 years; 2.5% thereafter

Example: 30 years PERS service:

 $(2\%x10)+(2.25\%x10)+(2.5\%x10) \times $85,000 =$  $67.5\% \times $85,000 = $57,375$ 

Note: State of Alaska employees also participate in the supplemental annuity plan (SBS)

## PERS / TRS Basic Facts Benefits



Pay \$140 billion in benefits payments over next 70 years

**Current PERS/TRS account balance: \$16.8 billion** 

**Unfunded Liability: approx \$11.9 billion** 

## PERS / TRS Basic Facts Expenses



$$C + I = B + \mathbf{E}$$

PERS FY 2012 Expenses

Investment	\$23.3mm
Administrative	\$14.9mm

\$38.2mm

TRS FY 2012 Expenses

Investment \$ 9.9mm

Administrative \$ 6.1mm

\$16.0mm

## PERS / TRS Events That Led to $C + I \neq B + E$



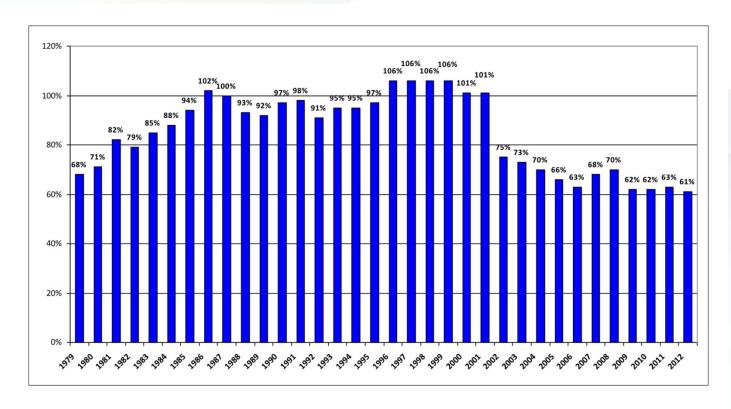
- 2002 Milliman actuarial audit; dotcom collapse
- 2003 FY 2002 valuations released with revised assumptions. \$4.1B unfunded liability
- 2005 SB 141 enacted: DB plans closed; DC plans created; PERB/TRB/ASPIB sunset; ARM Board created
- 2007 ARM Board files suit against Mercer for actuarial negligence; SB 123 enacted: PERS cost share
- 2008 SB 125 enacted: employer contribution rates capped; state assistance begins; Great Recession begins
- 2009 PERS / TRS investment loss: (20.5%)
- 2010 Mercer litigation settled for \$500mm (net \$403mm); other states begin to cut DB benefits, change plans;
- 2012 ARMB adopts level dollar amortization; \$11.9B unfunded liability
- 2013 12.5% investment gain; recession over?

## PERS / TRS Funding Ratio History — PERS



(Based on Valuation Assets)

$$C + I \neq B + E$$



2

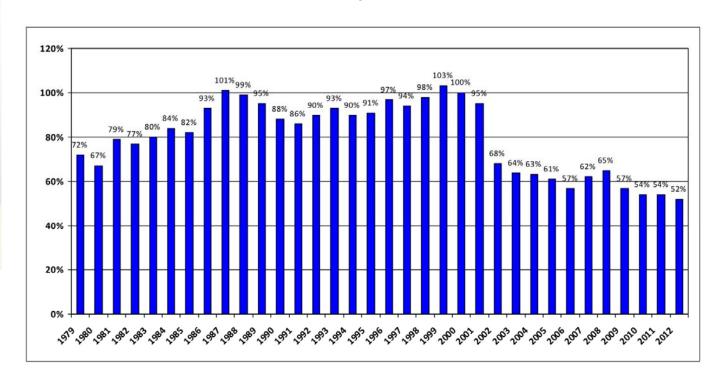
State of Alaska Public Employees' Retirement System As of June 30, 2012

## PERS / TRS Funding Ratio History – TRS



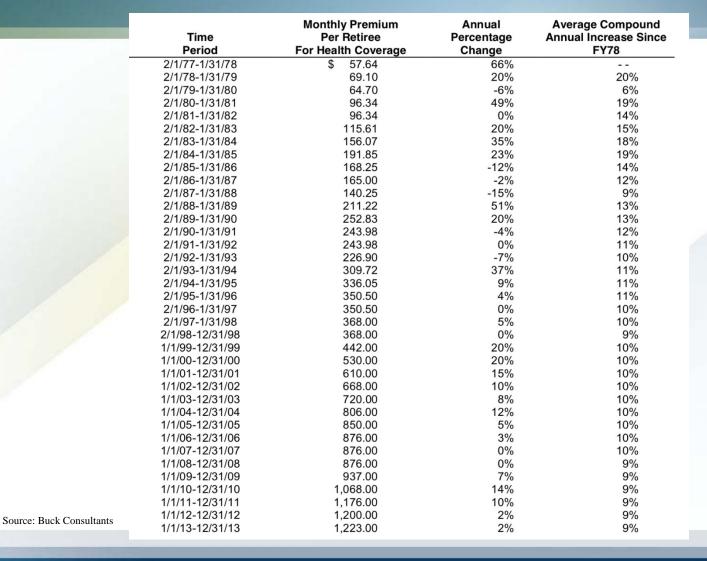
(Based on Valuation Assets)

$$C + I \neq B + E$$



State of Alaska Teachers' Retirement System As of June 30, 2012

## PERS / TRS Health Cost Trends



## PERS / TRS Balance Sheet

#### PERS DB:

Assets (actuarial value, 6/30/12) \$11,832,030,000
Accrued Liabilities (6/30/12) \$19,292,361,000
Unfunded Liability \$7,460,331,000)
Funding Ratio 61.3%

#### TRS DB:

Assets (actuarial value, 6/30/12) \$4,869,154,000

Accrued Liabilities (6/30/12) 9,346,444,000

Unfunded Liability (\$4,477,290,000)

Funding Ratio 52.1%

#### **Total DB:**

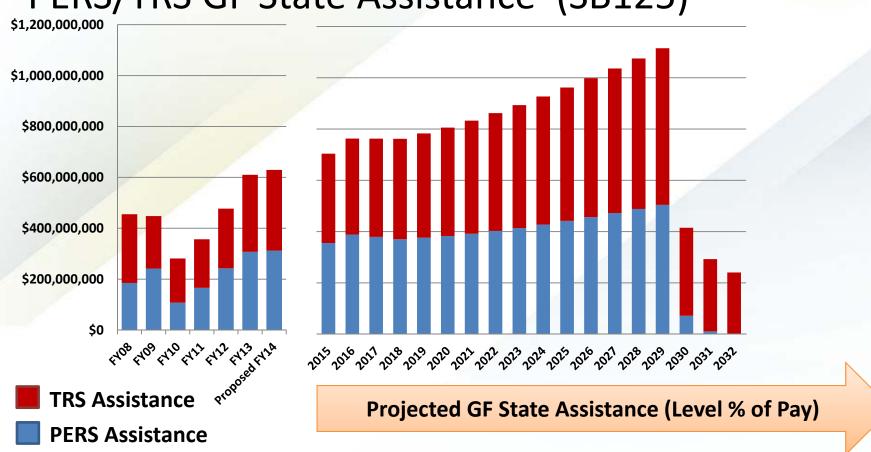
Assets (actuarial value, 6/30/12) \$16,701,184,000
Accrued Liabilities (6/30/12) \$28,638,805,000
Unfunded Liability \$11,937,621,000)
Funding Ratio \$58.3%

Note: Treasury reports PERS/TRS DB assets of \$19.04B as of September 30, 2013.

Source: Buck Consultants

## PERS/TRS Approaches to Unfunded Liability

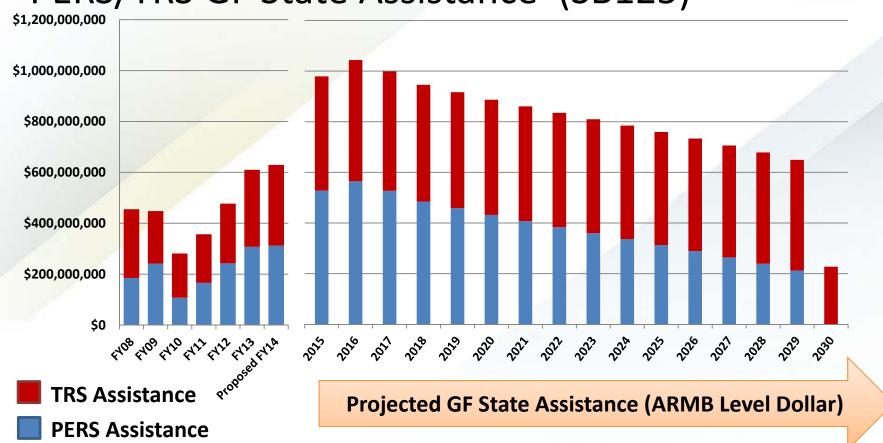
## PERS/TRS GF State Assistance (SB125)



## PERS/TRS Approaches to Unfunded Liability



## PERS/TRS GF State Assistance (SB125)



## PERS/TRS Approaches to Unfunded Liability



#### **Contributions**

- Amortization Method (ARM Board)
- Amortization Term
- Reserve Account (SB 187)
- Cash Infusion (SB 187)
- Contribution Rates

#### **Investment Return**

Asset Allocation

#### **Benefits**

(options limited by diminishment clause)

- Reduce Healthcare Costs
- Permit Plan Opt Outs
- COLA and Alive Audits

### **Expenses**

Optimize plan mgmt.