Analysis of PERS Cost Allocation, Benefit Modification, and System Financing Concepts

February 14, 2013



Important Notes Regarding This Report

This report is produced to support the PERS Board in its role as a policy advisor to the Legislative Assembly on potential changes in PERS benefits. The report does not reflect any legal analysis, or specific stakeholder group or interested party viewpoints.

This report analyzes concepts that have been in the public discussion and addresses ways to mitigate or reduce PERS costs. These concepts (or ones similar) have surfaced in different forums over the years, including the Legislature, ballot initiatives, special study committees, and various PERS and other public retirement system analyses.

The intent of this report is to provide high-level information on how these concepts would affect PERS members and employers, and the potential impact on system funding, employer rates, member benefits, and administration.

Impacts are to uncollared system-wide average employer contribution rates based on:

- December 31, 2011 valuation data
- Current methods and assumptions except where noted (e.g., liabilities amortized over 20 years); results under different methods or assumptions could differ significantly

Rate changes resulting from the concepts will vary by employer.

Overall, note that employer rate reductions are generally only realized if a concept decreases benefits to be paid to members or the time over which employer costs are paid is extended.

Similarly, employer rates would be increased if a concept increases the benefits to be paid to members or decreases the proportion of member benefits that are assumed to be funded by investment earnings.

Benefit changes resulting from the concepts will vary by member; for example, the effect may vary based on which benefit calculation method is used to determine that member's highest benefit. Note that, for 2011 retirements, 49% of members had their benefits calculated using the Money Match method, 43% were calculated under Full Formula, and 8% were Formula+Annuity.

PERS uses up to three methods to calculate Tier One and Tier Two retirement benefits: Full Formula, Formula + Annuity (for Tier One members beginning service before August 21, 1981) and Money Match. PERS uses the method (for which a member is eligible) that produces the highest benefit amount. OPSRP pension benefits are based only on a formula method.

CAVEATS

Concepts have <u>not</u> been evaluated for:

- Impact to collective bargaining discussions
- Relationship to workforce management objectives
- Compliance with previous court rulings
- Prospects for adoption by the 2013 Legislature

Cost Savings Overview

Concepts have been analyzed on a discrete basis; combining concepts could affect the cost-saving estimates and the impact to member benefits. The cost savings estimates reflect a projected \$18.4 billion PERS-covered payroll for the 2013-15 biennium. Estimated employer rate impacts are system-wide averages. The \$18.4 billion biennial covered payroll projection is composed of \$5.1 billion for state agencies and the university system (about 28%); \$6 billion for school districts (about 33%); and \$7.3 billion for local governments (about 40%). The 2013-15 biennial cost savings are based on the assumption that the Legislature will direct the PERS Board to revise employer contribution rates effective July 1, 2013, based on the legislative change, as they did when adopting the 2003 PERS Reform legislation.

Por	tential Legislative Concepts That Would Affect Costs for the 2013-15 Biennium	2013-15 Cost Savings (\$M)	Employer Rate Decrease (%)
	Eliminate Employer "Pick-up" of the 6% Member IAP Contribution	\$129	0.7%
Related to the	Allow Partial Employer "Pick-up" of Member IAP Contributions	\$74	0.4%
IAP	Eliminate the 6% Member IAP Contribution Requirement	\$129	0.7%
	Re-direct the 6% Member Contribution from the IAP to the Pension Programs	\$570	3.1%
Related to	Limit COLA Eligibility to the First \$24,000 or First \$32,000 of Annual Benefits *	\$810 or \$570	4.4% or 3.1%
Cost-of-Living	Do Not Pay COLA for One Biennium	\$221	1.2%
Adjustments	Limit Future COLAs to 1% or Eliminate All Future COLA Increases *	\$900 or \$1,800	4.9% or 9.7%
(COLAs)	Establish a 10-year Service Time Requirement for COLAs	\$55	0.3%
	Reduce the Money Match Annuity Rate to 4% or 6% *	\$221 or \$147	1.2% or 0.8%
Related to Money Match	Eliminate Money Match Benefit Calculation for All Future Tier One/Tier Two Retirements	\$497	2.7%
Wildley Water	Eliminate Money Match Benefit Calculation for All <i>Inactive</i> Tier One/Tier Two Retirements	\$442	2.4%
	Eliminate Tax Remedy Payments for Current and Future Non-Oregon Resident Retirees	\$55	0.3%
Miscellaneous	Remove the Adjustment Factors Used to Calculate Final Average Salary	\$129	0.7%
	Establish a Defined Contribution Plan for New Hires	\$0	0.0%

Po	otential PERS Board Concepts That Would Affect Costs for the 2015-17 Biennium	2015-17 Cost Savings or Increase (\$M)	Employer Rate Decrease or Increase (%)
	Reduce Assumed Earnings Rate to 7.5%	\$552 increase	3.0% increase
Related to	Reduce Assumed Earnings Rate to 7%	\$1,200 increase	6.3% increase
System	Increase Unfunded Actuarial Liability Amortization Period to 30 Years	\$534 savings	2.9% decrease
Financing	Increase Unfunded Actuarial Liability Amortization Period to 25 Years	\$331 savings	1.8% decrease
	Limit Net Biennial Employer Contribution Rate Increases to 3% of Payroll	\$350 savings	1.9% decrease

 $[\]ensuremath{^*}$ Milliman has provided additional information/analysis for these concepts.

Glossary

Accrued liability: The net present value of projected future benefits allocated to service already completed in accordance with the actuarial cost method.

Actuarial asset value: The value of assets used in calculating the required contributions. The actuarial asset value may be equal to the fair market value of assets, or it may spread the recognition of certain investment gains or losses over a period of years in accordance with a smoothing method. **Actuarial assumptions:** Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disablement, and retirement; rates of investment earnings and other relevant items. Actual experience will vary from assumption, and at times the variance will be substantial.

Actuarial cost method: A technique used by actuaries to allocate the amount and incidence of the annual actuarial cost of pension plan benefits, or normal cost, and the related unfunded actuarial liability (UAL). Ordinarily, the annual contribution to the plan comprises the normal cost and an amount for amortization of the unfunded actuarial accrued liability.

Base employer contribution rates: Consists of the normal cost rate plus the UAL rate. This is paid by a combination of employer contributions and side account transfers. Base rates do not reflect the effects of side account rate offsets.

Combined valuation payroll: Projected payroll for the calendar year following the valuation date for Tier One, Tier Two, and OPSRP active members. This payroll is used to calculate UAL rates.

Funded ratio or funded status: The actuarial value of assets expressed as a percentage of the accrued liability.

Individual Account Program (IAP): A defined contribution-like program that contains all member contributions (6% of covered payroll) made on or after January 1, 2004.

Net employer contribution rates: The rate funded by employer contributions, consisting of the base employer contribution rate minus the effect of side account rate offsets.

Normal cost: The annual cost assigned to the current year, under the actuarial cost method in use. The normal cost divided by the applicable payroll is the normal cost rate.

Oregon Public Service Retirement Plan (OPSRP) Pension Program: The program covering members hired on or after August 29, 2003.

Rate collar: A methodology that limits the maximum allowable period-to-period change in employer contribution rates. The width of the rate collar is determined by the current contribution rate and funded status.

Side accounts: Side accounts are established for employers who make supplemental payments (a lump-sum payment in excess of the required employer contribution). For State and Local Government Rate Pool (SLGRP) employers, this supplemental payment is first applied toward the employer's transition liability, if any, with the remainder going into a side account. Side accounts are treated as pre-paid contributions. Employer contribution rates are first determined excluding side accounts (base employer contribution rate). Then, an amortized portion of the side account is used to offset the contribution otherwise required for each individual employer that has a side account (net employer contribution rate). While side accounts are excluded from valuation assets in determining contribution rates for pools and non-pooled employers, side accounts are included in valuation assets for financial reporting purposes such as the reporting of funded status.

Total liability: The net present value of all projected future benefits attributable to all anticipated service (past *and* future) for current active and inactive members.

Tier One: The pension program covering members hired before January 1, 1996.

Tier Two: The pension program covering members hired from January 1, 1996 through August 28, 2003.

Unfunded actuarial liability (UAL): The excess of the actuarial accrued liability over the actuarial value of assets. The UAL is amortized over a fixed period of time to determine the UAL rate component of employer contribution rates.

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^{*} Milliman has provided additional information/analysis for these concepts.

Eliminate Employer "Pick-up" of the 6% Member IAP Contribution

The IAP is a member-funded individual account benefit that is separate from the defined pension benefit. This concept would remove the statutory option for employers to "pick-up" the member's 6% Individual Account Program (IAP) contribution, which will require members to pay the 6% contribution directly.

Impact							
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative					
Accrued liability impact: \$0.30 billion reduction	Directly deducting the 6% contribution	PERS					
Total liability impact: \$0.65 billion reduction	from members (on either a pre-tax or post-	No impact on PERS; employers report					
Energia dei consentamental andres conselland	tax basis) reduces take-home pay for the	whether contributions are "picked-up"					
Enacting this concept would reduce uncollared	approximately 70% of members whose contributions are now "picked up" by	for each member.					
employer rates by approximately 0.70%, saving approximately \$129 million in the 2013-15 biennium,	their employer. This reduction may also	Employer					
due to a reduction in the final average salary (FAS) for	affect the final average salary (FAS) used	Employers who currently pay the					
those Tier One/Tier Two members whose IAP	to calculate Full Formula or	"pick-up" will have to change their					
contributions are employer paid or "picked up" and who	Formula+Annuity benefits for Tier	salary reporting to member-paid status					
retire under the Full Formula or Formula+Annuity	One/Tier Two members when	on either a pre-tax or post-tax basis.					
benefit calculation methods.	determining those members' three highest						
	salary years.						
Preventing employers that currently "pick-up" member	D						
IAP contributions from doing so would shift the cost of those contributions to members. Currently, 70% of	Benefit calculations for Tier One/Tier Two members under Money Match would						
employers, representing 80% of covered payroll, "pick	not be affected. Benefit calculations for						
up" these member contributions. Approximately \$880	OPSRP members would also not be						
million in costs would be shifted from employers to	affected because the "pick-up" is excluded						
members during the 2013-15 biennium.	from the FAS used in OPSRP formula						
	pension benefits.						

Allow Partial Employer "Pick-up" of Member IAP Contribution

The IAP is a member-funded individual account benefit that is separate from the defined pension benefit. This concept would amend statute to allow employers to "pick-up" a negotiated percentage of member Individual Account Program (IAP) contributions. Currently, the law provides that employers can only chose between "picking up" all of the 6% contribution or none of it; this concept would allow employers to negotiate a split of the 6% between "picked up" and member-paid. Savings below are calculated based on a 3%-3% split of the member's IAP contribution.

Impact							
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative					
Based on a 3%-3% split: Accrued liability impact: \$0.15 billion reduction Total liability impact: \$0.33 billion reduction	Directly deducting a portion of the 6% contribution from members (on either a pre-tax or post-tax basis) reduces takehome pay for the approximately 70% of	PERS No impact on PERS so long as the current expectation that employers report whether contributions are					
These liability reductions from a 3%-3% split of the "pick up" would reduce uncollared employer rates by approximately 0.40%, saving approximately \$74 million in the 2013-15 biennium, because the split would reduce the FAS for those Tier One/Tier Two members whose contributions are currently fully "picked up" and who retire under the Full Formula or Formula+Annuity benefit calculation method.	members whose contributions are now "picked up" by their employer. This reduction may also affect the final average salary (FAS) used to calculate Full Formula or Formula+Annuity benefits for Tier One/Tier Two members when determining those members' three highest salary years.	"picked-up" for each member is maintained. Substantial IT system modifications and tracking would need to be developed were PERS expected to track the history of the varying percentages "picked up" by a member's employer(s) over an entire career.					
Allowing employers that currently "pick-up" member IAP contributions to shift a percentage of those contributions to employees would shift approximately \$147 million in costs for each percentage point that the "pick up" is reduced during the 2013-15 biennium. Based on a 3% - 3% split, a total of \$441 million would be shifted from employers to members in the 2013-15 biennium.	Benefit calculations for Tier One/Tier Two members under Money Match would not be affected. Benefit calculations for OPSRP members would also not be affected because the "pick-up" is excluded from the FAS used in OPSRP formula benefits.	Employer Employers will have to modify salary reporting to reflect the split contributions.					

Eliminate the 6% Member IAP Contribution Requirement

The IAP is a member-funded individual account benefit that is separate from the defined pension benefit. This concept would amend statute to eliminate the member 6% Individual Account Program (IAP) contribution.

Impact							
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative					
If the IAP contribution requirement was eliminated:	Eliminating the 6% IAP contribution	PERS					
Accrued liability impact: \$0.30 billion reduction	requirement for all members reduces their	Substantial IT system modifications					
Total liability impact: \$0.65 billion reduction	IAP benefit going forward. The IAP	would be needed to remove					
	benefit was projected (using an 8%	validations and controls on employer					
These liability reductions would reduce uncollared	earnings assumption) to replace some	reports that currently verify, track,					
employer rates by approximately 0.70%, saving	15% to 20% of a member's final salary	allocate, and invoice for the 6%					
approximately \$129 million in the 2013-15 biennium, because eliminating the 6% "picked up" contribution	for a 30-year career employee.	contribution.					
reduces the final average salary (FAS) for those Tier	This concept may also affect the Final	Employer					
One/Tier Two members who retire under the Full	Average Salary used to calculate Full	Employers would need to modify their					
Formula or Formula +Annuity benefit calculation	Formula or Formula+Annuity benefits for	payroll systems to remove report					
methods.	Tier One/Tier Two members when	fields that relate to the IAP					
	determining those members' three highest	contribution.					
Would also reduce costs for those employers that	salary years.						
currently "pick-up" member IAP contributions.							
Employers pay member IAP contributions for	Benefit calculations under Money Match						
approximately 70% of active members, representing	would not be affected for Tier One/Tier						
80% of covered payroll. If the contribution requirement	Two members. Benefit calculations for						
was eliminated, those employers would avoid the "pick-	OPSRP members would also not be						
up" and save approximately \$880 million in the 2013-15	affected.						
biennium.							

Re-direct the 6% Member Contribution from the IAP to the Pension Programs

The Individual Account Program (IAP) is a member-funded individual account benefit that is separate from the defined pension benefit. This concept would amend statute to re-direct Tier One/Tier Two and OPSRP member contributions from the IAP to the member's regular account (for Tier One/Tier Two members), or to a similar account to fund the member's pension under the OPSRP Program.

Impact						
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative				
Accrued liability impact: \$0.1 billion increase	Members who retire under the Money	PERS				
Total liability impact: \$1.2 billion increase	Match method will see increased benefits	Would require substantial IT system				
	because their regular accounts will resume	modifications to resume posting				
Increasing the portion of a member's retirement	growing with contributions, and that	contributions to Tier One/Tier Two				
allowance that is paid through their contributions would	growth will be matched by their	members' regular accounts and to				
decrease uncollared employer contribution rates by	employers at retirement. The average	create an account structure that is				
about 3.1% of payroll, saving approximately \$570	projected liability increases for longer-	integrated into the OPSRP system				
million in the 2013-15 biennium. These savings would	serving members (i.e., 30+ years) are	functionality. Preliminary estimates				
be realized because the 6% member contribution	2.5% to 4.0% given the relatively low	are that IT system changes for this				
currently funding the member's IAP benefit would	number of years such members are	concept could cost over \$1.2 million.				
instead be redirected to contribute towards funding the	expected to continue working before					
member's retirement allowance. Not all of this cost-	retirement. Tier One members with	Employer				
shifting is realized as employer rate savings because the	comparatively less service (i.e., 23-25	Employer reports would need to be				
redirection would also increase benefits for those Tier	years) are projected to see higher average	modified to reflect the additional				
One/Tier Two members who retire under the Money	increases in their liability, approximately	information fields that might be				
Match calculation method (see the "Member Benefits"	8%. Some members in this group are	needed to allow administration of this				
column for a further explanation of that dynamic).	currently projected to retire under Full	concept.				
	Formula and re-contributing to their					
This concept would also increase Tier One member	account would switch some to Money					
regular account balances, which adds risk in poor	Match. OPSRP does not have an account					
investment scenarios because those increased balances	balance-based benefit, but some increases					
would also have annual guaranteed crediting at the	are projected to benefits for OPSRP					
assumed rate.	members who make a pre-retirement					
	withdrawal, assuming any account balance in excess of their withdrawal					
	benefit amount is paid to them.					

Limit COLA Eligibility to the First \$24,000 or First \$32,000 of Annual Benefits

This concept would amend statute to limit the payment of any future COLA to only the first \$24,000 or, alternatively, \$32,000 of all current and future benefit recipients' annual benefits.

Impact							
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative					
Limiting COLA to the first \$24,000	Would slow the growth of current and	PERS					
Accrued liability impact: \$4.3 billion reduction	future benefits for affected benefit	Would require IT system					
Total liability impact: \$5.2 billion reduction	recipients, causing those benefits to	modifications to limit application of					
	diminish in purchasing power over time	COLA to the specified benefit level.					
Uncollared employer contribution rates would decrease	due to the impact of inflation. See the	Preliminary estimates put that cost at					
by about 4.4% of payroll, saving approximately \$810	charts on pages 11-12 for examples of	approximately \$40,000.					
million in the 2013-15 biennium.	these concepts' accumulated effect on						
	benefits paid in the future.	Employer					
Limiting COLA to the first \$32,000		No identified administrative impact.					
Accrued liability impact: \$3.1 billion reduction	Approximately 53% of all current retired						
Total liability impact: \$3.9 billion reduction	members receive a benefit of \$24,000 a						
	year or less and would not be impacted						
Uncollared employer contribution rates would decrease	until their annual benefit after COLAs						
by about 3.1% of payroll, saving approximately \$570	grew to greater than \$24,000 (if that was						
million in the 2013-15 biennium.	the limit).						
	Approximately 63% of all current retired						
	members receive a benefit of \$32,000 a						
	year or less and would not be impacted						
	until their annual benefit after COLAs						
	grew to greater than \$32,000 (if that was						
	the limit).						

COLA Cap Examples (limit on the first \$24,000 of an annual benefit)

This chart shows the impact of limiting the COLA to the first \$24,000 for a benefit recipient who is receiving a \$24,000, \$48,000, or \$60,000 annual benefit for the first 10 years of payments and the cumulative impact at 10, 20, and 30 years.

	\$24,000 Annual Benefit			\$48,000 Annual Benefit			\$60,000 Annual Benefit		
Year	2% Annual COLA	COLA Cap (\$480 annually)	Annual Change	2% Annual COLA	COLA Cap (\$480 annually)	Annual Change	2% Annual COLA	COLA Cap (\$480 annually)	Annual Change
1	24,480	24,480	-0	48,960	48,480	-480	61,200	60,480	-720
2	24,970	24,960	-10	49,939	48,960	-979	62,424	60,960	-1,464
3	25,469	25,440	-29	50,938	49,440	-1,498	63,672	61,440	-2,232
4	25,978	25,920	-58	51,957	49,920	-2,037	64,946	61,920	-3,026
5	26,498	26,400	-98	52,996	50,400	-2,596	66,245	62,400	-3,845
6	27,028	26,880	-148	54,056	50,880	-3,176	67,570	62,880	-4,690
7	27,568	27,360	-208	55,137	51,360	-3,777	68,921	63,360	-5,561
8	28,120	27,840	-280	56,240	51,840	-4,400	70,300	63,840	-6,460
9	28,682	28,320	-362	57,364	52,320	-5,044	71,706	64,320	-7,386
10	29,256	28,800	-456	58,512	52,800	-5,712	73,140	64,800	-8,340
10-year cumulative benefits	\$268,049	\$266,400	-\$1,649	\$536,098	\$506,400	-\$29,698	\$670,123	\$626,400	-\$43,723
20-year cumulative benefits	\$594,800	\$580,800	-\$14,000	\$1,189,599	\$1,060,800	-\$128,799	\$1,486,999	\$1,300,800	-\$186,199
30-year cumulative benefits	\$993,107	\$943,200	-\$49,907	\$1,986,213	\$1,663,200	-\$323,013	\$2,482,766	\$2,023,200	-\$459,566

COLA Cap Examples (limit on the first \$32,000 of an annual benefit)

This chart shows the impact of limiting the COLA to the first \$32,000 for a benefit recipient who is receiving a \$32,000, \$48,000, or \$60,000 annual benefit for the first 10 years of payments and the cumulative impact at 10, 20, and 30 years.

\$32,000 Annual Benefit		al Benefit \$48,000 Annual Benefit			nefit	\$60,000 Annual Benefit			
Year	2% Annual COLA	COLA Cap (\$640 annually)	Annual Change	2% Annual COLA	COLA Cap (\$640 annually)	Annual Change	2% Annual COLA	COLA Cap (\$640 annually)	Annual Change
1	32,640	32,640	-0	48,960	48,640	-320	61,200	60,640	-560
2	33,293	33,280	-13	49,939	49,280	-659	62,424	61,280	-1,144
3	33,959	33,920	-39	50,938	49,920	-1,018	63,672	61,920	-1,752
4	34,638	34,560	-78	51,957	50,560	-1,397	64,946	62,560	-2,386
5	35,331	35,200	-131	52,996	51,200	-1,796	66,245	63,200	-3,045
6	36,037	35,840	-197	54,056	51,840	-2,216	67,570	63,840	-3,730
7	36,758	36,480	-278	55,137	52,480	-2,657	68,921	64,480	-4,441
8	37,493	37,120	-373	56,240	53,120	-3,120	70,300	65,120	-5,180
9	38,243	37,760	-483	57,364	53,760	-3,604	71,706	65,760	-5,946
10	39,008	38,400	-608	58,512	54,400	-4,112	73,140	66,400	-6,740
10-year cumulative benefits	\$357,399	\$355,200	-\$2,199	\$536,098	\$515,200	-\$20,898	\$670,123	\$635,200	-\$34,923
20-year cumulative benefits	\$793,066	\$774,400	-\$18,666	\$1,189,599	\$1,094,400	-\$95,199	\$1,486,999	\$1,334,400	-\$152,599
30-year cumulative benefits	\$1,324,142	\$1,257,600	-\$66,542	\$1,986,213	\$1,737,600	-\$248,613	\$2,482,766	\$2,097,600	-\$385,166

Category: Concepts Related to Cost-of-Living Adjustments (COLAs)

Do Not Pay COLA for One Biennium

This concept would amend statute to direct PERS not to pay the COLA currently provided for July 1, 2013 or July 1, 2014.

Impact							
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative					
Accrued liability impact: \$1.4 billion reduction	Benefit levels would remain flat for the	PERS					
Total liability impact: \$1.4 billion reduction	biennium. Current and future benefits would diminish in purchasing power over	Would require IT system changes to suspend the COLA and exclude both					
Uncollared employer contribution rates would decrease	time due to the impact of inflation. Total	additional accumulation and					
by about 1.2% of payroll. This would save	benefits received over affected benefit	application of any banked COLA					
approximately \$221 million in the 2013-15 biennium.	recipients' lifetimes would also be	during the period that the COLA is					
Note: An additional 1% of payroll rate reduction would	reduced as the suspended COLA would	suspended.					
occur for each successive biennium in which the COLA	not be compounded in future years. The						
is eliminated (e.g. a six-year COLA elimination would	relative size of the reduction would vary	Employer					
reduce employer rates by 3% of payroll).	depending on the length of the time	No identified administrative impact.					
	benefits are paid after the COLA resumes.						

Limit Future COLAs to 1% or Eliminate All Future COLA Increases

This concept would amend statute to either limit future COLAs to a maximum of 1% or direct PERS not to pay the COLA in the future.

Impact							
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative					
If future COLA increases were eliminated: Accrued liability impact: \$9.7 billion reduction Total liability impact: \$11.0 billion reduction Uncollared employer contribution rates would decrease by about 9.7% of payroll. This would save	If future COLA increases were eliminated or limited to 1%, purchasing power would decrease over time due to the impact of inflation. Total benefits received over the affected	PERS Would require some IT system changes to eliminate COLA and exclude both additional accumulation and application of any banked COLA during the period that the COLA is					
approximately \$1.8 billion in the 2013-15 biennium. If future COLA increases were limited to 1%: Accrued liability impact: ~\$4.9 billion reduction Total liability impact: ~\$5.5 billion reduction Uncollared employer contribution rates would decrease by about 4.9% of payroll. This would save approximately \$900 million in the 2013-15 biennium.	person's lifetime would also be less due to the reduction or loss of COLAs. For example, a 2% COLA compounded annually increases a benefit by 50% over 21 years, so reducing the COLA to 1% would limit that benefit increase to approximately 25% over 21 years while eliminating the COLA would eliminate that benefit increase.	Employer No identified administrative impact.					

Category: Concepts Related to Cost-of-Living Adjustments (COLAs)

Establish a 10-Year Service Requirement for COLAs

This concept would amend statute to impose a requirement of 10 years of creditable service before being eligible for a COLA.

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: \$0.3 billion reduction	Members retiring with less than 10 years	PERS
Total liability impact: \$0.3 billion reduction	of service time would not be eligible for a	Would require significant IT system
	COLA. Their benefits would remain flat	changes to add an additional qualifier
Uncollared employer contribution rates would decrease	and experience diminished purchasing	to determine whether COLA should be
by about 0.3% of payroll, saving approximately \$55	power over time due to the impact of	applied.
million in the 2013-15 biennium.	inflation. Total benefits received over the	
	affected person's lifetime would also be	Employer
	less due to the loss of COLAs.	No identified administrative impact.
	Approximately 12% of PERS members	
	retiring in 2011 had less than 10 years of	
	creditable service.	

Reduce the Money Match Annuity Rate to 4% or 6%

This concept would set the interest rate used to derive the annuity portion when calculating future Money Match retirement benefits at 4% or 6% instead of using the system's assumed earnings rate (currently 8%).

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Reduce the Money Match Annuity Rate to 4%	All Tier One/Tier Two members are	PERS
Accrued liability impact: \$3.4 billion reduction	provided the highest of (up to) three benefit	Would require the implementation of
Total liability impact: \$2.7 billion reduction	calculation methods, so reducing Money	special actuarial factor tables to be
	Match benefits could move affected	used only for Money Match
Employer rates would decrease by a net of 1.2% of	members to Full Formula or	calculations that would derive the
payroll saving approximately \$221 million in the 2013-	Formula+Annuity "floors" that would limit	actuarial equivalent based on the
15 biennium.	the decrease in their benefit at retirement.	reduced interest rate.
Delicado Mario Madal Ace '4 Dada (0)	Lowering the annuity rate from 8% to 4%	T
Reduce the Money Match Annuity Rate to 6%	would reduce a 55-year old member's	Employer
Accrued liability impact: \$2.0 billion reduction	Money Match benefit by 34.4%, while a	No identified administrative impact.
Total liability impact: \$1.6 billion reduction	65-year old member's Money Match benefit would be reduced 28.8%. Lowering	
Employer rates would decrease by a net of 0.8% of	the annuity rate to 6% would reduce a 55-	
payroll saving approximately \$147 million in the 2013-	year old member's Money Match benefit	
15 biennium.	by 17.7%, while a 65-year old member's	
13 ordinam.	Money Match benefit would be reduced	
Decreasing the annuitization rate to 4% or 6% would	14.7%. Tier One members who began	
cause some members to be projected to retire under	service before August 21, 1981 are eligible	
Full Formula rather than Money Match. This would	for the Formula+Annuity benefit	
lower the member's total liability and accrued liability,	calculation, and the Annuity portion of	
but would increase the member's "normal cost" under	their benefit would be reduced. Tier Two	
the current actuarial cost method. The entire normal	members are eligible for either Full	
cost is funded each year in the employer's contribution	Formula or Money Match, but most are	
rate, while changes in accrued liability are typically	likely to retire under Full Formula and this	
amortized over a number of years.	reduction would not affect their benefits.	
	OPSRP members only receive a formula-	
	based benefit so this reduction would also	
	not affect their benefits.	

Eliminate the Money Match Benefit Calculation for Future Tier One/Tier Two Retirements

This concept would amend statute to eliminate Money Match as a benefit calculation method used to determine benefits for Tier One and Tier Two members.

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: \$6.1 billion reduction	Tier One and Tier Two members currently	PERS
Total liability impact: \$5.0 billion reduction	projected to have their benefits calculated under Money Match would have their	Would require substantial IT system modifications to remove Money
Employer rates would decrease by a net of 2.7% of	benefit reduced to the level provided by	Match calculations from the benefit
payroll saving approximately \$497 million in the 2013-	the Full Formula calculation. The	determination system.
15 biennium.	reduction would be most significant for	
	long-service active Tier One general	Employer
Eliminating Money Match as a benefit calculation	service members, and for members who	No identified administrative impact.
method would cause affected members to be projected	have been inactive for an extended time.	
to retire under Full Formula. This would lower the		
member's total liability, and accrued liability, but would	In 2011, retired members whose	
increase the "normal cost" for active members under the	retirement benefits were calculated under	
current actuarial cost method. The entire normal cost is	Money Match replaced an average of 70%	
funded each year in the employer's contribution rate,	of salary in retirement. Also in 2011, 30-	
while changes in accrued liability are typically	year career members whose retirement	
amortized over a number of years.	benefits were calculated under Money	
	Match replaced an average of 78% of	
	salary in retirement.	

Category: Concepts Related to Money Match

Eliminate the Money Match Benefit Calculation for All *Inactive* Tier One/Tier Two Retirements

This concept would amend statute to eliminate Money Match as a benefit calculation method used to determine benefits for Tier One and Tier Two members who are not active members (i.e., working in a PERS-covered position at retirement).

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: \$2.9 billion reduction	Inactive members currently projected to	PERS
Total liability impact: \$2.9 billion reduction	have their benefits calculated under	Would require substantial IT system
	Money Match would have their benefit	modifications to remove Money
Employer rates would decrease by 2.4% of payroll,	reduced to the level provided by the Full	Match calculations from the benefit
saving approximately \$442 million in the 2013-15	Formula calculation. The reduction would	determination system.
biennium.	be greatest for members who have been	
	inactive for an extended period. There	Employer
	were 40,500 members reported as	No identified administrative impact.
	"inactive" in the December 31, 2011	
	actuarial valuation.	

Category: Miscellaneous Concepts

Eliminate Tax Remedy Payments for Current and Future Non-Oregon Resident Retirees This concept would amend statute to eliminate supplemental tax remedy benefits for PERS retirees that do not pay state income taxes in Oregon.

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: \$0.38 billion reduction	Would reduce benefits of retired Tier One	PERS
Total liability impact: \$0.39 billion reduction	members who reside out-of-state by	Would require IT system
	approximately 6%, on average (estimated	modifications to coordinate
Uncollared employer contribution rates would decrease	at 15% of current retired members, or	withholding tax remedy benefits from
by about 0.3% of payroll, saving approximately \$55	about 18,000 people). The reduction	those recipients who should no longer
million in the 2013-15 biennium.	would be highest for those affected	receive them. Oregon's Department of
	members with the greatest proportion of	Revenue would also need to
Estimates shown above assume 15% of benefits are paid	their service prior to September 29, 1991.	coordinate eligibility determinations
to non-Oregon residents.	The supplemental tax remedy payments	and complications would arise as
	are only paid to members who started	recipients move in and out of Oregon
	service before July 14, 1995. Benefit	residency status.
	recipients who are entitled to the tax	
	remedy receive a maximum monthly	Employer
	increase of 9.8% and minimum of 2%.	No identified administrative impact.

Remove the Adjustment Factors Used to Calculate Final Average Salary

This concept would amend statute to eliminate lump sum vacation pay and unused sick leave as factors included in determining a Tier One/Tier Two member's final average salary (FAS) for such members not yet retired.

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: \$0.33 billion reduction	Tier One FAS would be reduced by	PERS
Total liability impact: \$0.66 billion reduction	eliminating both factors (estimated	Would require significant IT system
Uncollared employer contribution rates would decrease	average reduction of about 8%). Tier Two FAS would be reduced by eliminating the	changes to revise or remove reporting, validation, verification, and
by about 0.7% of payroll, saving approximately \$129	unused sick leave factor (lump sum	calculation processes that use these
million in the 2013-15 biennium.	vacation pay is already excluded), for an	factors.
	estimated average reduction of about 6%.	
	Only members who would retire using the	Employer
	Full Formula and Formula+Annuity	Change the salary reporting process to
	benefit calculation methods would be	eliminate these factors.
	affected. Formula+Annuity only applies to Tier One members who started service	
	before August 21, 1981.	
	before Hagast 21, 1961.	
	Benefit calculations for Tier One / Tier	
	Two members under Money Match would	
	not be affected. OPSRP members would	
	also not be affected as both factors are	
	already excluded from FAS calculation	
	for OPSRP benefits.	

Establish a Defined Contribution (DC) Plan for New Hires

Adopt a statutory DC plan for new hires that requires employers to contribute a set percentage of the member's salary to an account, to combine with member contributions and receive market earnings and losses.

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: No impact	The impact on the value of retirement	PERS
Total liability impact: No Impact	benefits for new hires will depend on the	Would require a new fund investment
	level of member and employer	and benefit administration system, or
No savings unless employer contributions are less than	contributions and investment	contracting with a third party
the "normal cost" rate (the cost of benefits accrued for	performance. Prior projections for the IAP	administrator, or outsourcing both
the current year of service). All costs associated with	component of the current PERS hybrid	investment and plan administration
existing plans would still need to be paid, so there	plan were that a 6% contribution with a	functions. Increases administrative
would be no reduction in accrued liability or total	compounded 8% annual return provides a	complexity and costs by introducing a
liability for exiting plan members.	benefit equal to 15% to 20% of final	different benefit structure.
	average salary for a 30-year member. DC	
	plan contributions would need to be about	Employer
	18% of pay with a compounded 8%	Transfers all investment and longevity
	annual return to achieve the same final	risk from the employer to the
	salary replacement ratio as a 30-year	employee; establishes a determinable,
	OPSRP pension benefit. A DC plan also	consistent benefit plan cost structure
	shifts all investment and longevity risk to	for new hires.
	the individual member.	

Reduce Assumed Earnings Rate to 7.5%

This concept assesses the impact of the PERS Board, based on advice from OIC investment consultant and PERS actuary, reducing the assumed earnings rate from the current 8% per year to 7.5% per year if that changes was made effective with the December 31, 2011 valuation that set 2013-2015 employer contribution rates.

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: \$2.7 billion increase Total liability impact: \$4.0 billion increase Lowering the assumed earnings rate assumption by	Reducing the assumed earnings rate would also result in a reduction in the actuarial equivalency factors used to derive Tier One/Tier Two Money Match	PERS Would require the creation of new actuarial factor tables for benefit calculations and to derive the actuarial
0.5% would increase uncollared employer Tier One/Tier Two rates by 3% of payroll, increasing employer	and Tier One Formula+Annuity benefits. Money Match benefits would be reduced	equivalent for optional benefit forms.
contributions by \$552 million per biennium (based on the 2013-15 PERS covered payroll). This is partially because retirements from 1989 to the present were funded based on an 8% assumed rate and decreasing the assumed rate would require more employer dollars to adequately fund those retirements. In addition, earnings would be projected to fund a smaller portion of benefits for anticipated future retirements, thus requiring increased contributions to fill the gap.	by approximately 4.5% for a member retiring at age 55 and 3.7% for a member retiring at age 65. Formula +Annuity benefits would be affected by approximately half as much as Money Match benefits. However, both of these reductions may be limited as the member may shift to a Full Formula calculated benefit. OPSRP member benefits are only	Employer No identified administrative impact.
A change in the assumed rate from 8% to 7.5% would result in an increase of \$4 billion in total actuarial liability due to the lowering of future earnings expectations. That increase reflects the net effect of lowered earnings expectations and a partial offset of those expectations due to the lowering of expected costs for future benefits calculated under the Money Match and Formula+Annuity methods.	calculated on a formula basis.	

Category: Concepts Related to System Financing

Reduce Assumed Earnings Rate to 7%

This concept assesses the impact of the PERS Board, based on advice from the OIC investment consultant and PERS actuary, reducing the assumed earnings rate from the current 8% per year to 7% per year.

Impact		
Member Benefits and Cost Sharing	Administrative	
Reducing the assumed earnings rate would also result in a reduction in the actuarial equivalency factors used to derive Tier One/Tier Two Money Match and Tier One Formula+Annuity benefits. Money Match benefits would be reduced by approximately 9% for a member retiring at age 55 and 7.3% for a member retiring at age 65. Formula+Annuity benefits would be affected by approximately half as much as Money Match benefits. However, both of these reductions may be limited as the member may shift to a Full Formula calculated benefit. OPSRP member benefits are only calculated on a full formula basis.	PERS Would require the creation of new actuarial factor tables for benefit calculations and to derive the actuarial equivalent for optional benefit forms. Employer No identifiable administrative impact.	
	Reducing the assumed earnings rate would also result in a reduction in the actuarial equivalency factors used to derive Tier One/Tier Two Money Match and Tier One Formula+Annuity benefits. Money Match benefits would be reduced by approximately 9% for a member retiring at age 55 and 7.3% for a member retiring at age 65. Formula+Annuity benefits would be affected by approximately half as much as Money Match benefits. However, both of these reductions may be limited as the member may shift to a Full Formula calculated benefit. OPSRP member benefits are only calculated on a full formula basis.	

Category: Concepts Related to System Financing

Increase Unfunded Actuarial Liability Amortization Period to 30 Years

This concept assesses the impact from the PERS Board, based on advice from the PERS actuary, increasing the amortization period of the current Tier One/Tier Two unfunded actuarial liability (UAL) from a closed 20 years to a closed 30 years. Future UALs or surpluses would be amortized over a new 30-year period. Current side account amortization periods would remain the same.

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: \$0	No direct impact on member benefits.	PERS
Total liability impact: \$0	-	None.
(This concept only affects the timing and total cost of		
recovering the unfunded liability over a longer time)		Employer
		None.
Increasing the amortization period from 20 to 30 years		
would initially lower uncollared employer rates by		
approximately 2.9% of payroll system-wide, providing		
near-term "savings" of approximately \$534 million per		
biennium (based on the 2013-15 PERS covered payroll)		
by shifting costs to future years. This would cause		
negative amortization of the UAL on a cumulative basis		
for approximately the first 20 years, causing the UAL to		
increase and the system funded status to decline		
compared to the current amortizations. This increased		
UAL would need to be financed through future		
contributions. In addition, the UAL contribution rate		
would have to be assessed for an additional 10 years		
should earnings grow only at the assumed rate.		
Lengthening the amortization period will also result in		
greater generational inequity as the payoff of UALs		
attributed to current members and retirees will be		
deferred, in part, to future member payrolls and future		
taxpayers.		

Increase Unfunded Actuarial Liability Amortization Period to 25 Years

This concept assesses the impact from the PERS Board, based on advice from the PERS actuary, increasing the amortization period of the current Tier One/Tier Two unfunded actuarial liability (UAL) from a closed 20 years to a closed 25 years. Future UALs or surpluses would be amortized over a new 25-year period. Current side account amortization periods would remain the same.

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: \$0	No direct impact on member benefits.	PERS
Total liability impact: \$0		None.
(This concept only affects the timing and total cost of		
recovering the unfunded liability over a longer time)		Employer
Increasing the amortization period from 20 to 25 years would initially lower uncollared employer rates by approximately 1.8% of payroll system-wide, providing near-term "savings" of approximately \$331 million per biennium (based on the 2013-15 PERS covered payroll) by shifting costs to future years. This would cause negative amortization of the UAL on a cumulative basis for approximately the first 12 years, causing the UAL to increase and the system funded status to decline compared to the current amortizations. This increased UAL would need to be financed through future contributions. In addition, the UAL contribution rate would have to be assessed for an additional 5 years should earnings grow only at the assumed rate. Lengthening the amortization period will also result in greater generational inequity as the payoff of UALs attributed to current members and retirees will be deferred, in part, to future member payrolls and future taxpayers.		None.

Category: Concepts Related to System Financing

Limit Net Biennial Employer Contribution Rate Increases to 3% of Payroll

This concept assesses the impact from the PERS Board, based on advice from the PERS actuary, adopting a new rate collaring methodology to limit base rate increases to 3% of payroll from one biennium to the next. The rate increase limit would apply to base, pooled rates. This concept does not affect rates offsets for employers with side accounts.

Impact		
System Liabilities/Employer Rates/ Other Employer Costs	Member Benefits and Cost Sharing	Administrative
Accrued liability impact: \$0 Total liability impact: \$0 (This concept only affects the timing and total cost of recovering the unfunded liability over a longer time) Limiting the increase in employer rates to 3% of payroll in the 2013-15 biennium would reduce the projected rate increases by 1.9% of payroll system-wide providing near-term "savings" of approximately \$350 million per biennium (based on the 2013-15 PERS covered payroll) by shifting costs to future years. System funded status would decline by about 1% of assets per biennium over the next four to five biennia, as employer contributions would be less than the amount needed to adequately fund benefits. Employer contribution rates would ultimately rise to a higher level in the future, even if earnings exceed the assumed rate, because of the deferred collection of contributions. Also, if earnings do not meet projections, funded status deterioration and future rate impact would be more pronounced.	No direct impact on member benefits.	Increases overall complexity of setting employer rates, but is manageable within current system design. Employer Could result in significantly higher long-term contribution rates for employers. Could create substantial accounting, actuarial, and bond finance reporting concerns. For those employers with side accounts, the net effect could be further complicated if the increase was limited to base contribution rates or to include side account offsets, which may result in those accounts being depleted more rapidly than anticipated.