

City of Knoxville Pension System

Active and Inactive Liability

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Today's presentation will discuss the composition of liability and possible ways to handle the liability.

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Presentation Overview:

1. Review of Active and Inactive Liability
2. Should liability impact assets?
3. What is the goal?
4. Adjust Investment Policy
5. Purchasing annuities
6. Create self-insured annuities

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Review of Active and Inactive liability 7/1/2009

Active Liability	\$160M
Inactive Liability	\$401M
Total Plan Liability	\$561M
Inactive as a % of Total	71.4%

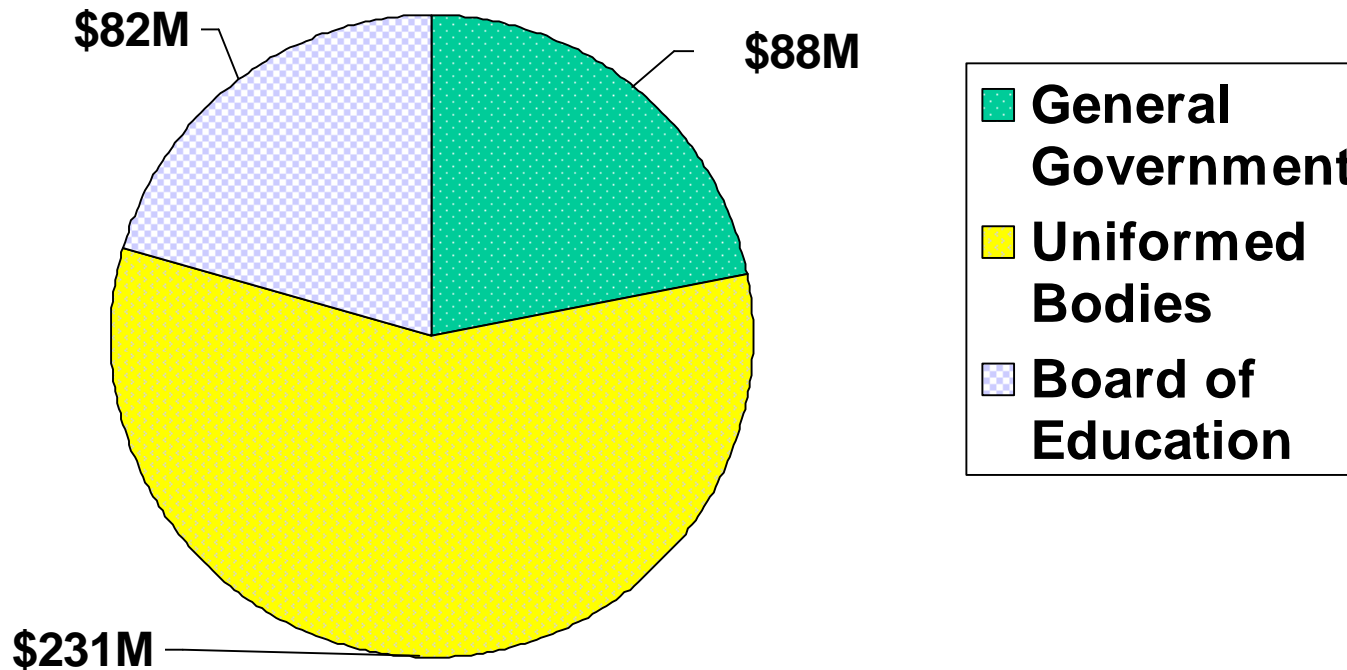
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Review of Active and Inactive liability 7/1/2009

	Bd of Ed	Div C	GG
Active Liability	\$0M	\$90M	\$70M
Inactive Liability	\$82M	\$231M	\$88M
Total Plan Liability	\$82M	\$321M	\$158M
Inactive / Total	100%	72.0%	56.7%

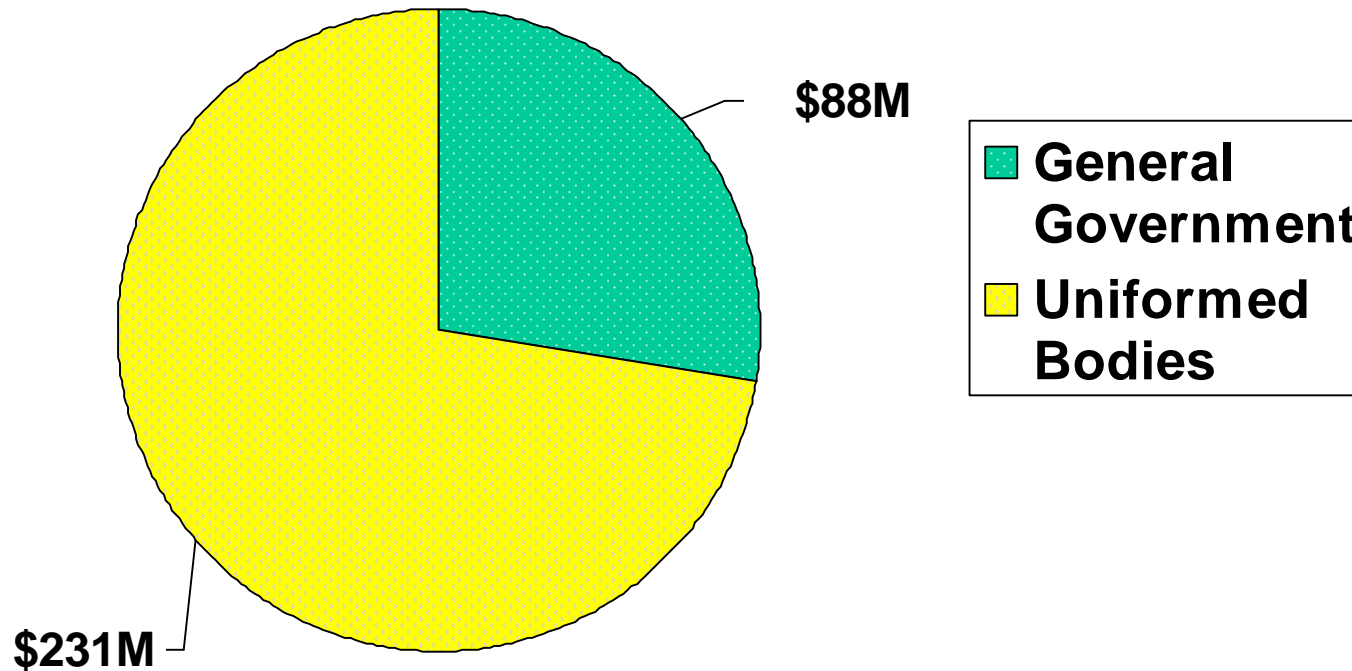
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Review Inactive liability



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Review Inactive liability



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Average Annual Retirement Benefit

	Div C	GG
Benefit Payments	\$21M	\$ 8M
Retirees	674	474
Average Benefit	\$31k	\$17k
Final Average Salary	\$51k	\$42k

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Average Annual Retirement Benefit

	Div C	GG
Average Ret Age	55.6	59.3
Form of Benefit	50%JS	Life
Average Service	31	25
Multiplier	2.5%	2%

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Should liabilities impact investment policy?

What would last year's asset loss of \$130M have been if the plan had no inactive liability?

Active Liability 7/1/2009	\$160M	\$160M
Inactive Liability 7/1/2009	\$401M	\$ 0M
Total Plan Liability	\$561M	\$160M
Total Payroll	\$ 60M	\$ 60M
Total Loss for Year Ending 6/30/2009	\$130M	\$ 37M

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Should liabilities impact investment policy?

1. The smaller the payroll is relative to the inactive liability, the less ability the sponsor will have to absorb losses.
2. In the extreme example of all inactive liability and no payroll, presumably there is no margin to absorb losses.
3. Should the plan make some changes to reflect the large amount of inactive liability?

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What is the goal?

Less Conservative <-----> More Conservative

More	Active Liability	Less
Equity	Assets	Fixed Income
Higher*	Returns	Lower
Lower	Contribution	Higher
Less Predictable	Contribution	More Predictable

* More equity does not guarantee higher returns or lower contributions.

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Possible actions

1. Change asset mix (weight more toward fixed income)
2. Purchase annuities (reduces inactive exposure)
3. Create self-insured annuities (reduces inactive exposure)

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Liability 7/1/2009: 8% vs 6% post-retirement return

	Bd of Ed	Div C	GG	Total
8%	\$82M	\$321M	\$156M	\$559M
6%	\$94M	\$391M	\$189M	\$674M
Increase	\$12M	\$70M	\$33M	\$115M

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Normal Cost 7/1/2009: 8% vs 6% post-ret return

	Div C	GG	Total
8%	12.7%	5.1%	8.8%
6%	17.4%	7.3%	12.3%
Increase	4.7%	2.2%	3.5%

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How to create self-insured annuities

1. Determine what liability will be insured (100% of Board of Education, x% of other retiree liability?)
2. Determine over what period to transition to full coverage (20 to 30 years?)
3. Determine how to make incremental steps towards coverage
4. Determine if/when transitional steps will be accelerated (funding is over 100% and/or bond rates hit target level?)
5. Determine funding policy for self-insured group

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How to create self-insured annuities

1. Work with investment manager to determine logistics and time-frame to begin implementation.
2. Revise charter to make it more difficult for future administrations to undo changes?

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Possible Targets

1. Self-insure 100% of Board of Education liability.
2. Self-insure inactive non-BDED liability such that inactive liability that is not self-insured does not exceed 50% of active liability.
3. After transition period, continue to self-insure to the extent necessary to meet condition 2.
4. Change post-retirement discount rate from 8% to 6% (200 bps):
 - a) 10 basis points per year for 20 years or
 - b) 6.67 basis points per year for 30 years

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Limit Inactive Uninsured to 50% of Active

Liability	Total	Div C	GG
Active	\$160M	\$90M	\$70M
Inactive	\$320M	\$231M	\$89M
Inactive Uninsured	\$80M	\$45M	\$35M
Inactive Self-Insured	\$240M	\$186M	\$54M
Total Uninsured	\$240M	\$135M	\$105M

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Sample Action

The board desires to transition to self-insured annuities over the next 30 years.

Such annuities will cover 100% of Board of Education liability and other retiree liability as described previously.

The post retirement discount rate shall be transitioned to 6%.

The board gives authority to the executive director to take such actions as are necessary to begin implementation of these changes as of July 1, 2010.

Further, the board asks the attorney to draft language which would codify changes regarding self-insured annuities.

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Possible Next Steps:

1. Determine what, if any, next step on Self-Insurance Option
2. See further projections regarding asset smoothing and amortization periods (June/July 2010)
3. Valuation Results/ Experience Study 2010 (Nov/Dec 2010)
4. Review plan objectives/benefits