INVESTMENT REVIEW

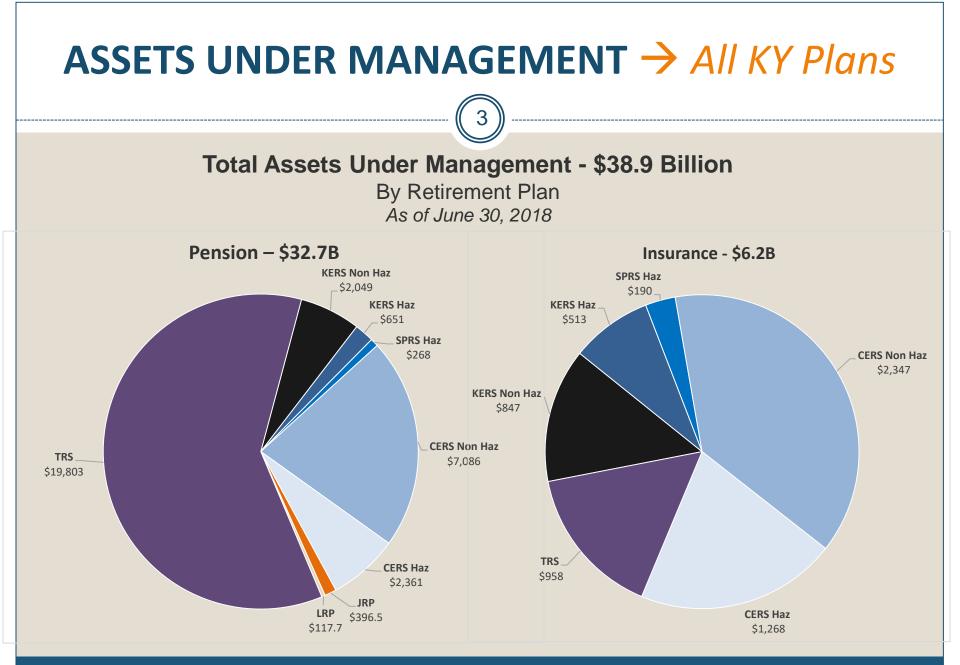
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Public Pension Oversight Board

September 24, 2018

INVESTMENT REVIEW

- Review of Total Assets
- Fiscal Year 2018 Market and Index Review
- Performance Review and Peer Comparison
- Allocation Review and Peer Comparison
- Investment Fees, Expense, and Carried Interest Review
- Other Required Review Topics (benchmarks, policies, etc.)



PERFORMANCE → *Market Review*

Fisca	al Year 2018 Returns
18.3	Private Equity
17.6	US Small Cap
14.3	US Large Cap
12.4	Non-US Small Cap
8.4	Private Real Estate
8.2	Emerging Markets
7.3	Commodities
6.8	Developed Non-US
5.5	Public Real Estate
5.1	Absolute Return/FOF
3.2	Non-US Fixed Income
2.6	US High Yield Bonds
1.4	T-Bill
(0.6)	US Gov/Credit

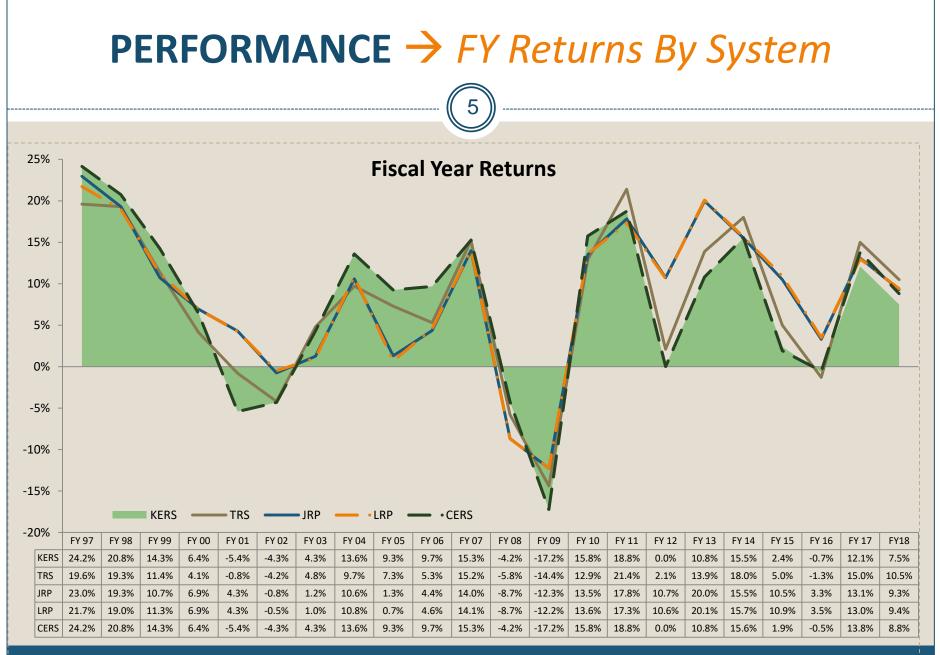
Another Positive Year for Markets

August 22 –Longest bull market in US history 320% since March 2009

Broadly Based Positive Performance

Strong year for public and private equity
Non-US lagged US, but provided strong results

- Below Investment grade (higher yield) assets outpaced stronger credits, but minimal return
- Investment grade bonds have struggled recently, only negative return for fiscal year



NOTE: FY2015-2017 Returns are Net of Fee, longer term are gross, or before fees

INVESTMENTS \rightarrow *Pension*

As of June 30, 2018	MV	1 –Year	3-Year	5-Year	10-Year	20-Year	AROF
KERS Pension (N)	\$2.0B	7.5%	6.2%	7.2%	6.0%	5.8%	5.25%
Policy Benchmark		7.2%	6.5%	7.2%	6.3%	5.9%	
KERS-Haz Pension (N)	\$651.2M	8.7%	7.1%	7.7%	6.2%	5.9%	6.25%
Policy Benchmark		8.2%	6.9%	7.5%	6.5%	6.0%	
SPRS Pension (N)	\$268.4M	7.7%	6.1%	7.0%	5.9%	5.8%	5.25%
Policy Benchmark		7.7%	6.5%	7.3%	6.3%	5.9%	
CERS Pension (N)	\$7.1B	8.8%	7.2%	7.7%	6.2%	5.9%	6.25%
Policy Benchmark		8.2%	6.9%	7.5%	6.5%	6.0%	
CERS-Haz Pension (N)	\$2.4B	8.8%	7.2%	7.7%	6.2%	5.9%	6.25%
Policy Benchmark		8.2%	6.9%	7.5%	6.5%	6.0%	
TRS Pension (N)	\$19.8B	10.5%	7.9%	9.2%	7.8%	6.1%	7.50%
Policy Benchmark ¹		9.3%	8.2%	9.0%	7.5%	-	7.507
LRP (N*)	\$117.7M	9.4%	8.6%	10.4%	9.8%	7.0%	6.50%
Policy Benchmark		9.8%	8.7%	9.9%	8.3%	6.1%	0.507
JRP (N*)	\$396.5M	9.4%	8.6%	10.3%	9.8%	7.0 %	6.50%
Policy Benchmark		9.8%	8.7%	9.9%	8.3%	6.1%	0.507
Peer Groups Median Retu	rns						
LRC Calculated 39 plans		8.9%	7.4%	8.3%	6.3%	-	
Wilshire TUCS (G)		8.6%	7.3%	8.4%	7.0%	-	
BNY Mellon (G)		8.6%		8.2%	6.7%	-	

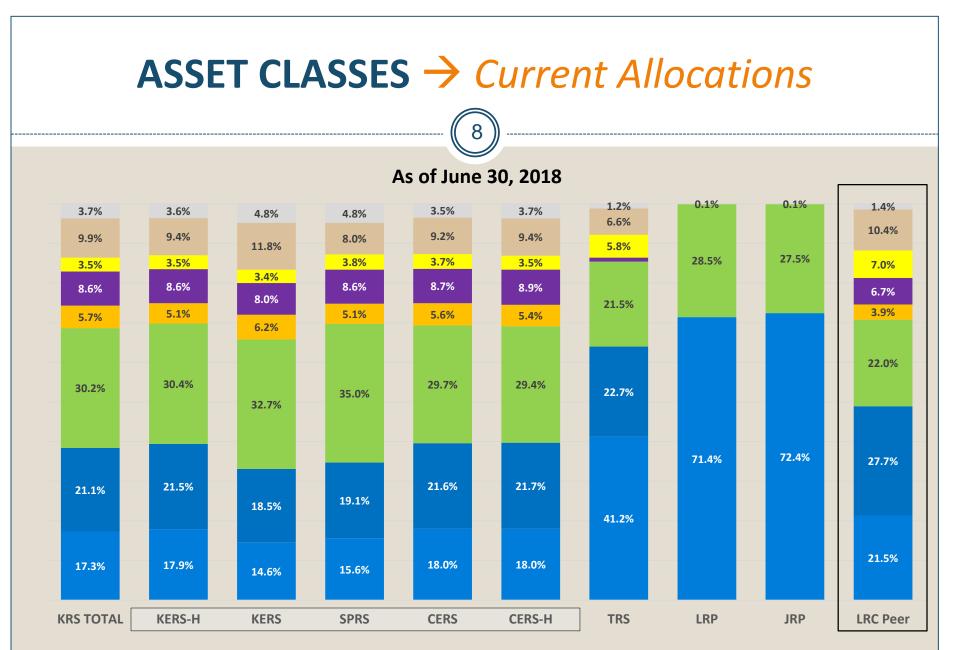
¹ TRS did not benchmark overall performance prior to July 1, 2008

LRC Calculated is a database of 69 statewide public pension plan returns LRC staff is compiling of which 39 have reported annual return data online or have responded to inquiries.

ASSET ALLOCATION \rightarrow *Drives 90% of Returns*

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	Asset Class	Description	Avg Peer %
_		Description	
ssets	U.S. Equity	Publicly traded stocks listed on U.S. exchange. Includes Large, Middle, and Small Capitalization companies. Very liquid, but tend to have higher volatility.	50%
Traditional A	Non-U.S. Equity	Public stocks listed outside U.S. in local currency. Includes developed and emerging countries. Liquid, have higher return & risk expectation than U.S.	50%
Tradi	Fixed Income	Bonds and other assets with yield component. Includes investment grade (high quality), sovereign debt (global), and high yield (riskier) assets. Have lower expected return than equity, but less volatility given income component.	25%
S	Real Estate	Includes both private and public real estate investment trusts (REITs). Larger plans tend to invest in more private real estate, which consists of both core & non-core holdings. Illiquid in nature, but has provided stable returns over time.	
ve Assets	Private Equity/Credit	Includes private equity, venture capital, distressed or other private debt strategies. Generally in form of limited partnership agreements. Illiquid in nature and have long investment horizon (7-12 years). Have higher expected return, but also can exhibit higher levels of risk.	250/
Alternativ	Real Return	Includes real assets, such as commodities or timber, as well as inflation-linked securities, such as Treasury Inflation Protected Securities (TIPS). Tend to have low correlation to stocks and bonds. Can be less liquid than traditional assets.	25%
A	Absolute Return	Funds that seek positive return regardless of market condition. Can include equity, fixed income, real estate, commodities, or other assets. Can include buying or "shorting" underlying securities. Expected to provide less volatile stream of positive returns over long term.	

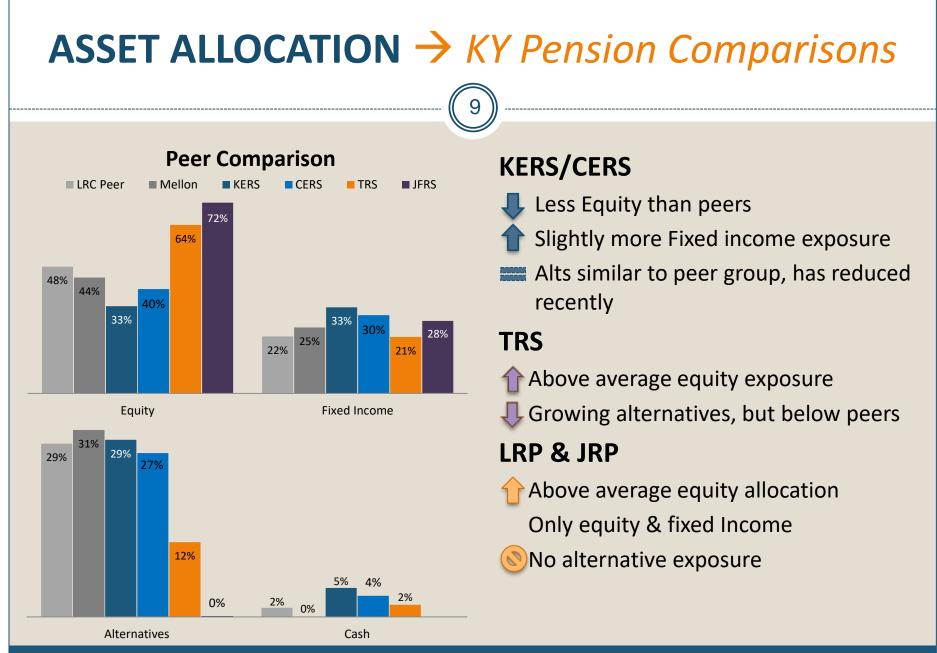


Non-U.S. Equity Fixed Income U.S. Equity

Absolute Return

Real Return

Real Estate **Private Equity** Cash



NOTE: LRC and Mellon Peer Groups are averages while KRS, TRS, LRP, and LRP are actual as of 6/30/2018

FEES → *Kentucky Plans**

		P	ension	Fund Investme	ent Fees and	d Exper	nses			
		KRS		Т	RS	JFRS				
	MV	Fees	BPS	MV	Fees	BPS	MV	Mgmt Fees	BPS	
Global Equity	\$4,699,763	\$8,785	22.2	\$12,667,986	\$14,693	11.6	\$371,105	\$287.8	7.8	
Private Assets	\$1,214,464	\$5,211	72.3	\$1,311,888	\$18,502	141.0	-	-	-	
Real Return	\$1,057,017	\$5,511	52.1	\$187,541	\$1,688	90.0	-	-	-	
Real Estate	\$428,490	\$6,646	121.6	\$1,150,694	\$10,107	87.8	-	-	-	
Fixed Income	\$3,714,668	\$10,446	33.3	\$4,248,542	\$6 <i>,</i> 560	15.4	\$142,702	\$110.7	7.8	
Absolute Return	\$701,705	\$12,355	94.7	\$0	\$0	-	-	-	-	
Cash/Custody/Consultant	\$453,519	\$2 <i>,</i> 684	-	\$236,645	\$3,966 ¹	-	\$399	\$9.8	-	
Total Mgmt Fees	\$12,269,626	\$51,639	42.1	\$19,803,296	\$55,516	28.0	\$514,206	\$408.3	7.9	
	¢42.200.020	¢ 40.0502	22.4	640.002.20C	<u> </u>		AV (A D			
Other Fees or Incentives:	\$12,269,626	\$40,958 ²	33.4	\$19,803,296	See Footnoi	tes	N/A – Doe	es not utilize alteri	natives	
Total Mgmt Fees & Other	\$12,269,626	\$92,597	75.5	\$19,803,296	\$55,516	28.0	\$514,206	\$408.3	7.9	
		In	surance	e Fund Investm	ent Fees an	d Evne	inses			
	MV	Fees	BPS	MV	Fees	BPS	MV	Mgmt Fees	BPS	
								Wight Fees	DFJ	
Total Mgmt Fees and Other	\$5,127,644	\$45,917 ⁴	89.6	\$1,061,293	\$3,603 ³	33.9	Assets mana	aged with Pension	Funds	
COMBINED PEN/INS	\$17,397,270	\$138,514	79.6	\$20,864,589	\$59,119	28.3	\$514,206	\$408.3	7.9	

¹ Includes \$2.9m internal staffing, operational, and legal expenses. KRS treats similar costs as administrative expenses.

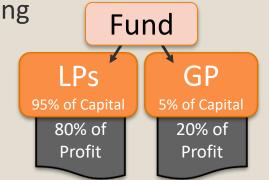
² Includes \$22.3m (Private Equity), \$2.6m (Real Estate), \$0.7m (Real Return), \$6.4m (Absolute Return), \$1.3m (Fixed Income) and \$7.6m (other partnership expenses)

³ TRS requested other fees and incentive information from managers, but have been notified by managers the information can not be reported.

⁴ Includes 23.8 million, or 46.5 bps of performance or partnership agreements. Base management fees before incentive expenses = 43.5 basis points

FEES → Carried Interest

- Carried Interest, or Carry, is method of compensating General Partners (GPs) for fund performance.
 - Agreement of LPs to allocate a portion of fund's net profit to the GP *in excess* of the amount GP contributes to the partnership.
 - GPs prefer Carry due to tax treatment
 - If carry did not exist, management fees would increase



- SB2 Required Plans to request data and report if received
 - KRS 61.645/161.250 requires plans to request and disclose dollar value of any profit sharing, carried interest, or any other partnership incentive arrangements, partnership agreements, or any other partnership expenses received by or paid to each manager or partnership;
- Amount dependent on performance, can account for significant dollars

Private Equity ¹	Mgmt. Fees	BPS ²	Perf. Fees ³	BPS ²	Total Fees	BPS ²
KRS	\$9,434,943	0.81%	\$16,343,440	1.40%	\$25,778,383	2.20%
South Carolina	\$27,060,000	1.18%	\$42,537,000	1.86%	\$69,597,000	3.04%
CalPERS	\$233,789,000	0.86%	\$455,126,000	1.68%	\$688,915,000	2.54%

¹ Fiscal Year 2017 ² BPS calculated at asset class level ³ Includes Carried Interest and/or Profit Share Paid

STATUTORY REVIEW \rightarrow *Other Topics*

• To meet statutory requirements, staff has reviewed the following:

o Total Fund Objectives

- Desire to meet Actuarial Return target of 5.25% (KERS and SPRS), 6.25% (CERS, KERSH), 6.5% (LRP/JRP), or 7.5% (TRS)
- Desire to exceed Policy Benchmarks over market cycle (5 and 10 year periods)

Policies and Oversight

- KRS –Policies available online
- TRS Investment Policy recorded as Administrative Regulation (102 KAR 1:175). Board Governance manual, which includes several policies, available online
- LRP/JRP Policy available online

O Securities Litigation and Annual Recoveries

- KRS Filed 74 claims. \$2,247,966 proceeds received
- TRS Filed 16 claims. \$286,055 proceeds received
- LRP/JRP No claims filed. No proceeds received

INVESTMENT REVIEW \rightarrow *Benchmarks*

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Asset Class and Total Fund Benchmarks

- All plans using recognized and industry known indices
- Alternative indices limited, most plans using a public index + model

TRS	BM%	Benchmark		К	RS Non-H	az Plans
US Equity	40.0%	87.5% S&P500		KERS	CERS	
		+7.5% S&P400	Asset Class	BM%	BM%	Benchmark
		+5.0% S&P600	US Equity	15.75%	18.75%	Russell 3000
Non US Equity	22.0%		Non US Equity	15.75%	18.75%	MSCI ACWI EX US IMI
Fixed Income	15.0%	, , ,	Non 05 Equity	13.7370	10.7570	Actual Performance (< 5Yrs) or
Real Estate	6.0%	50.00% CPI + 2%	Private Equity	7.00%	7.00%	Russell 3000 + 300 bps (5+ Yrs)
		+33.3% NCREIF ODCE	High Yield/			· · · /
Tireberlend	1.00/	+16.7% NCREIF	Specialty Credit	15.00%	15.00%	Barclays US Corporate High Yield
Timberland	1.0% 6.0%	NCREIF Timberland	Core Fixed	20.50%	13.50%	Barclays US Universal
Private Equity	0.0%	66.7% Actual Perf (< 5Yrs) +33.3% S&P500 + 3% (>5+ Yrs)	Cash	3.00%	1.00%	Citigroup 3-Mo Treasury Bill
Additional Catagorias	0.00/	· · · · ·				,
Additional Categories	8.0%	Merrill Lynch High Yield	Real Estate	5.00%	5.00%	NCREIF ODCE^
Cash	2.0%	90 Day T-Bill	Absolute Return	3.00%	3.00%	HRFI Diversified FOF
JFRS BN		nchmark	Real Return	15.0%	15.0%	Custom - Allocation Specific
US Equity 70		P 500	^1 Quarter in Arrear			
Fixed Income 30	% Ba	rclays Intermediate Gov't/Credit	·· L Quarter III Arrear	Sinuex		

INVESTMENT REVIEW \rightarrow *Allocation* & *Targets*

• Current Asset Allocation, Targets, and allowable ranges

- Additional Categories from TRS primarily high yield credit, non-investment grade fixed income and/or specialty credit
- KERS and CERS continue to transition to recently revised targets
 - Reducing Equity and adding to Fixed Income

	KRS Non-Hazardous Plans							TRS			
	KERS		CE	RS				Ac	tual	Target	Range
	Actual	Target	Actual	Target	Range	US Equity		41	.2%	40.0%	34%-48%
GROWTH	62.2%	53.50%	62.4%	62.50%		Non US Equity	1		.8%	22.0%	18%-25%
US Equity	14.6%	15.75%	18.0%	18.75%	10%-25%	Fixed Income			.3%	15.0%	12%-19%
Non US Equity	18.5%	15.75%	21.6%	18.75%	10%-25%	Real Estate			8%	6.0%	4%-8%
Private Equity	11.8%	7.00%	9.2%	10.00%	5%-15%		Alternative Investments ¹		6.5% 6.0%		4%-10%
						Additional Cat	tional Categories		2%	8.0%	5%-11%
HY/Credit	17.3%	15.00%	13.6%	15.00%	10%-25%	Cash			2%	2.0%	1%-3%
CREDIT	20.2%	23.50%	19.5%	23.50%		¹ Includes PE, Ventu	re Capitol, Tim	ber, and Infras	tructure Inves	stment	
Core Fixed	15.4%	15.00%	16.1%	13.50%	15%-36%			JFRS PI	200		
Cash	4.8%	3.00%	3.5%	1.00%	0%-5%		JRP				
DIVERSIFYING	17.6%	23.00%	18.0%	23.00%							Range
Real Return	8.0%	15.00%	8.7%	15.00%	5%-20%	US Equity	Actual 72.4%	Target 70.0%	Actual 71.4%	Target 70.0%	60%-80%
Real Estate	3.4%	5.00%	3.7%	5.00%							
						Fixed Income	27.5%	30.0%	28.5%	30.0%	20%-40%
Absolute Return	6.2%	3.00%	5.6%	3.00%	0%-10%	Cash	0.1%	0.0%	0.1%	0.0%	



APPENDIX A

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Historical Asset Allocation by Plan

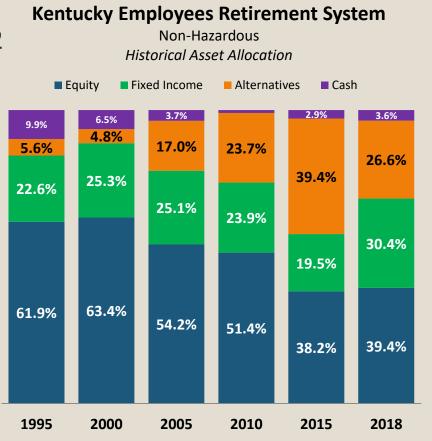
ASSET ALLOCATION TREND \rightarrow KERS

Cash Flow Situation has limited

- No new PE investments since 2012
- Higher allocation to Fixed Income
- o Reducing Absolute Return
- o Reducing Public Equity exposure

Alternative Allocation includes

- 5.1% Absolute Return/Hedge Funds
- O 9.4% Private Equity
- O 3.5% Real Estate
- o 8.6% Real Return



ASSET ALLOCATION TREND \rightarrow CERS

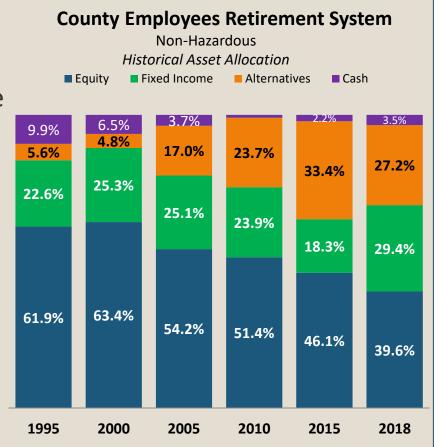
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CERS similar to peer group

- Have reduced equity exposure
- Added significantly to fixed income
- Reducing some alternatives
 - o Absolute Return
 - o Real Return

Alternative Allocation includes

- O 5.6% Absolute Return/Hedge Funds
- o 9.2% Private Equity
- o 3.7% Real Estate
- o 8.7% Real Return



ASSET ALLOCATION TREND \rightarrow TRS

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TRS similar, but slower trend

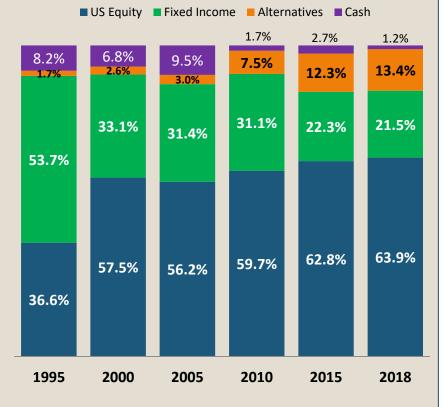
- Continue to add alternatives
 - Private equity, credit, and real estate
- Fixed income includes investment/non-investment grade
- Above average public equity

Alternative Allocation includes

- o 6.6% Private Equity/Credit
- o 5.8% Real Estate
- O 1.0% Real Return
- O No Absolute Return/Hedge Funds

Kentucky Teachers Retirement

Historic Asset Allocation



ASSET ALLOCATION TREND \rightarrow JFRS

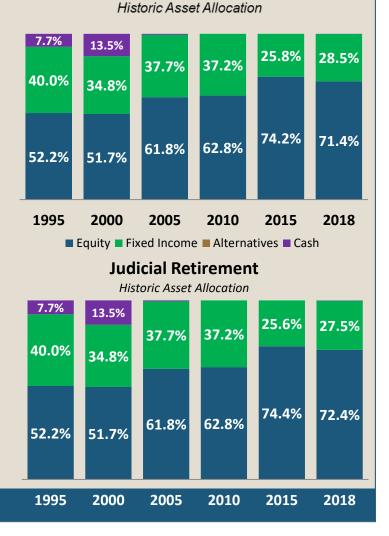
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Plans allocated in traditional assets

- Only U.S. Equity, primarily Large Cap
- Shorter term bonds, investment grade
- o 70/30 allocation

Peer Comparison

- o High Equity allocation
- Limited diversification by size, geography
- No alternatives



Legislative Retirement

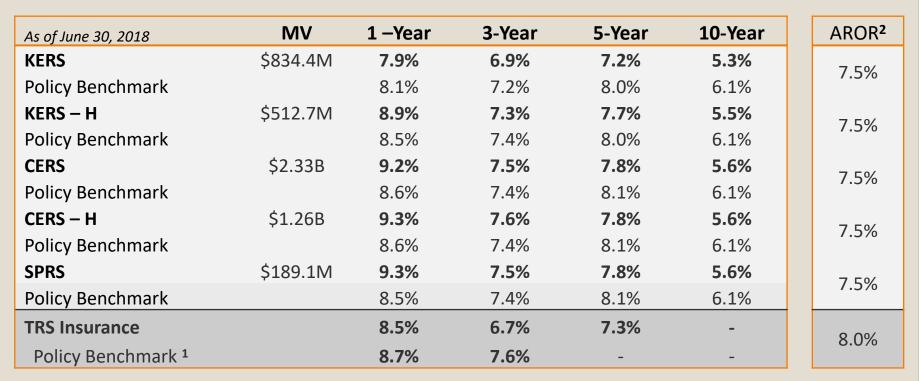
APPENDIX B

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Insurance Portfolio Performance

INVESTMENT PERFORMANCE *Insurance*

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Net of Fee Returns ¹ TRS did not have target asset allocation prior to June 30, 2014, thus no benchmark return was calculated ² KRS has reduced AROR moving forward. See Slide 7 for additional information

APPENDIX C

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LRC Staff Calculated Peer Group

		Detur	Data				Λ		ion			
Custom		Returi			Asset Allocation							
System	1 Year	3 Year	5 year	10 Year	Global Eq	Global FI	Real Estate	Real Assets	RE/RA	HF	PA	Cash
Public Employee or Consolidated State Plans				_	_							
Retirement Systems of Alabama												
Alaska Public Employee Retirement System												
Arizona State Retirement System												
Arkansas Public Retirement System	10.25%	7.49%	8.82%	8.42	65.00	15.00	0.00	15.00	15.00	0.00	5.00	0.00
California Public Employees Retirement System	8.60%	6.70%	8.10%	5.60%	48.80	22.50	9.00	5.10	14.10	0.90	7.70	6.00
Colorado Public Employees Retirement Association												
Connecticut State Employees Retirement System	7.30%	7.14%	7.89%	6.13%	51.50	18.90	6.30	11.40	17.70	0.00	8.10	3.80
Delaware Public Employees Retirement System												
Florida Retirement System	8.98%	7.62%	8.69%	6.85%	56.10	18.70	8.90	0.00	8.90	0.00	15.20	1.10
Georgia Employees Retirement System												
Hawaii Employees Retirement System												
Public Employees Retirement System of Idaho	8.70%	7.70%	8.60%		58.30	17.80	8.70	8.90	17.60	0.00	6.20	0.10
Illinois State Employees Retirement System					51.20	32.70	8.70	2.20	10.90	0.40	4.80	0.00
Indiana Public Employement Retirement Fund	9.33%	6.11%	6.31%	4.62%	22.10	19.80	6.10	16.50	22.60	10.20	24.30	1.00
Iowa Public Employees Retirement System	7.97%	7.20%	8.22%	6.84%								
Kansas Public Employees Retirement System												
Kentucky Employee Retirement Systems	8.57%	7.01%	7.63%	6.18%	38.40	30.20	3.50	8.60	12.10	5.70	9.90	3.70
Louisiana State Employees' Retirement System	9.50%	7.40%	8.40%	7.00%	59.30	13.10	0.00	6.80	6.80	6.70	13.60	0.50
Maine Public Employees Retirement System	10.30%	7.70%	8.20%	6.30%	33.30	19.50	8.90	22.70	31.60	0.00	15.10	0.50
Maryland State Retirement and Pension System	8.10%	6.30%	7.20%	5.60%	37.80	23.10	9.00	8.00	17.00	8.50	12.60	1.00
Massachusetts State Employees Retirement System	10.00%	8.40%	9.30%	6.30%	42.00	20.80	9.00	3.40	12.40	13.50	10.80	0.50
Michigan State Employees Retirement System	12.00%	8.70%	10.20%	7.30%	42.50	12.30	11.30	9.00	20.30	5.70	15.60	3.60
Minnesota State Retirement System	10.30%	8.30%	9.50%	7.80%	60.70	24.30	0.00	0.00	0.00	0.00	13.80	1.20
Public Employees' Retirement System of Mississippi	9.48%	8.38%	9.32%	7.45%	61.02	20.32	10.11	0.00	10.11	0.00	7.64	0.91
Missouri State Employees Retirement System	7.40%	3.70%	5.30%	5.00%								
Montana Public Employees Retirement												
Nebraska Public Employees Retirement System												
Nevada Public Employees Retirement System	8.50%	7.50%	8.80%	7.10%	61.40	29.10	4.40	0.00	4.40	0.00	4.90	0.20
New Hampshire Retirement System												
New Jersey Public Employees Retirement System												
New Mexico Public Employees Retirement Association	6.96%	6.09%	7.32%	5.49%	37.15	28.83	6.72	13.67	20.39	3.21	9.10	1.32
New York State Common Retirement Fund					56.40	23.60	7.00	2.00	9.00	2.70	8.30	0.00
North Carolina Retirement Systems	7.30%	6.20%	7.30%	6.10%	40.20	33.90	8.70	6.50	15.20	0.00	7.20	3.50
North Dakota Public Employees Retirement System	9.19%		8.33%	5.81%								
Ohio Public Employees Retirement System												
Oklahoma Public Employees Retirement System					69.80	29.80	0.20	0.00	0.20	0.00	0.00	0.20
Oregon Public Employees Retirement System	9.40%	7.47%	8.59%	6.77%	36.80	22.60	10.20	8.00	18.20	0.00	22.30	0.10
Pennsylvania State Employees Retirement System	0.1070				00.00		20120	2.00	-0.20	0.00		0.10
Employees' Retirement System of Rhode Island	8.00%	6.30%	7.20%	5.80%	46.20	19.50	7.00	6.10	13.10	6.50	11.30	3.40
South Carolina Retirement System	7.82%		7.07%	5.40%		20.00		5.10	-0.10	0.00	12.00	0.10
South curonna nethenic system	7.0270	0.51/0	1.0770	3.4070								

	Return Data						Δs	set Allocat	ion			
System	1 Year			10 Year	Global Eq	Global FI	-	Real Assets	-	HF	ΡΑ	Cash
Public Employee or Consolidated State Plans												
South Dakota Retirement System												
Tennessee Consolidated Retirement System												
Employee Retirement System of Texas	9.90%	7.30%	8.10%	6.70%	45.00	24.60	9.60	2.00	11.60	3.70	13.40	1.70
Utah Retirement System												
Vermont State Employees Retirement System	6.50%	6.00%	6.30%	5.50%	53.00	30.40	5.80	0.00	5.80	7.20	3.50	0.10
Virginia Retirement System	7.50%	7.10%	8.30%	6.10%	41.00	32.30	0.00	13.50	13.50	0.00	12.40	0.80
Washington Public Employees Pension System												
West Viginia Public Employees Retirement System	8.90%	8.00%	9.10%	7.60%	50.60	16.40	10.90	0.00	10.90	11.10	10.80	0.20
Wisconsin Retirement System												
Wyoming Retirement System												
Standalone Teacher/Public School Retirement Plans												
Arkansas Teachers Retirement System					T							
California State Teachers' Retirement System	9.00%	7.80%	9.10%	6.30%	53.70	12.30	12.80	2.70	15.50	8.90	8.20	1.40
Connecticut Teachers Retirement Board	7.04%	7.07%	7.85%	6.20%	52.00	19.30	6.50	10.40	16.90	0.00	6.70	5.10
Teacher's Retirement System of Georgia												
Teachers Retirement System of Illinois	8.30%	6.80%	8.20%	6.20%	51.70	23.10	0.00	13.10	13.10	0.00	11.40	0.70
Kentucky Teachers Retirement System	10.59%	7.88%	9.23%	7.81%								
Teacher's Retirement of Louisana	11.56%	9.35%	9.93%	7.08%	51.00	17.00	9.00	4.00	13.00	0.00	19.00	0.00
Public School Retirement System of Missouri	8.90%	7.70%	8.80%	6.90%	46.20	17.40	7.50	3.10	10.60	11.90	10.50	3.40
Montana Teacher's Retirement System												
School Retirement System for Nebraska												
New Mexico Educational Retirement Board	8.30%	7.60%	8.10%	6.80%	33.60	27.20	6.50	18.40	24.90	0.00	13.00	1.30
New York State Teacher's Retirement System												
North Dakota Teacher's Fund for Retirement	9.11%	7.30%	8.31%	5.54%								
State Teachers Retirement System of Ohio	9.57%	8.12%	9.26%	7.04%	53.10	19.40	10.30	8.00	18.30	0.00	7.40	1.80
Oklahoma Teacher's Retirement System												
Public School Employees' Retirement System of Pennsylvania												
Teacher Retirement System of Texas	9.20%	7.70%	8.70%	6.60%	40.00	10.80	11.80	13.30	25.10	13.20	10.50	0.40
Vermont State Teachers' Retirement System	6.50%	6.10%	6.30%	5.30%	52.50	28.90	7.10	0.00	7.10	7.60	3.70	0.20
West Virginia Teachers Retirement System	8.90%	8.00%	9.00%	7.40%	50.00	16.10	10.70	0.00	10.70	11.00	10.70	1.50
LRC State Plan Peer Group Summary												
Count	39	39	39	38	36	36	36	36	36	36	36	36
Average	8.8%	7.3%	8.2%	28.4%	48.59	21.99	7.01	6.73	13.74	3.85	10.41	1.42
Median	8.9%	7.4%	8.3%	6.3%	50.80	20.56	8.10	6.30	13.10	0.65	10.41	0.96
Weddin	0.070	7.1/5	0.070	0.070	50.00	20.00	0.10	0.00	10.10	0.00	10.00	0.00

