



NEPC, LLC

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MoDOT & Patrol Employees Retirement System

Investment Summary
Quarter Ending June 30, 2017
Board Report

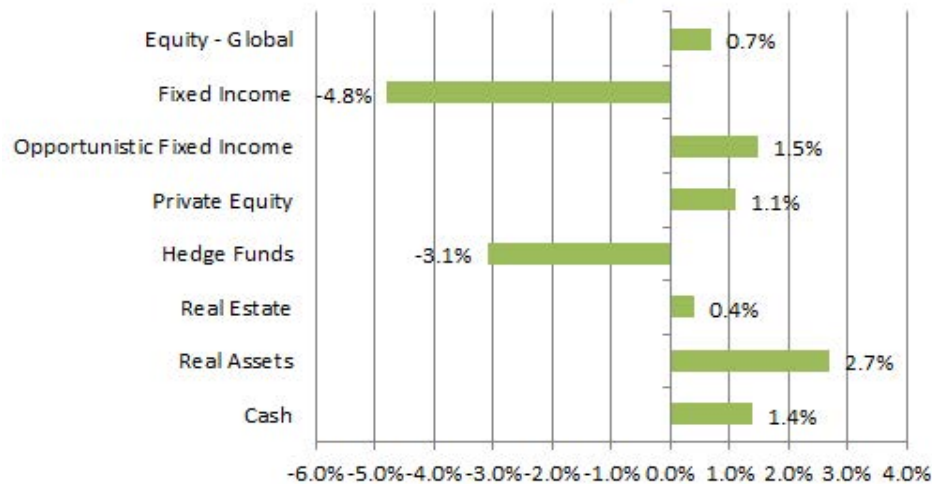
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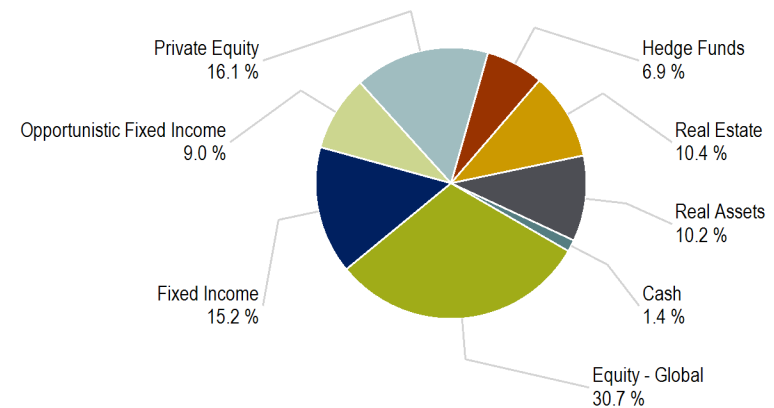
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Total Fund Asset Allocation vs. Current Allocation

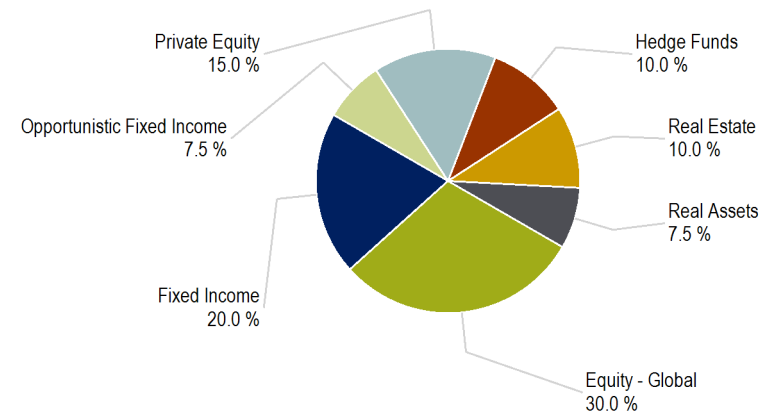
Current Allocation vs. Policy Allocation



Current Asset Allocation



Policy Asset Allocation



Current Asset Allocation vs. Policy Asset Allocation

	Current	Policy	Current	Current Difference*
Equity - Global	\$664,326,249	30.0%	30.7%	0.7%
Fixed Income	\$328,314,319	20.0%	15.2%	-4.8%
Opportunistic Fixed Income	\$195,426,266	7.5%	9.0%	1.5%
Private Equity	\$348,961,860	15.0%	16.1%	1.1%
Hedge Funds	\$149,231,207	10.0%	6.9%	-3.1%
Real Estate	\$225,733,199	10.0%	10.4%	0.4%
Real Assets	\$221,757,657	7.5%	10.2%	2.7%
Cash	\$29,976,141	--	1.4%	1.4%
Total	\$2,163,726,898	100.0%	100.0%	

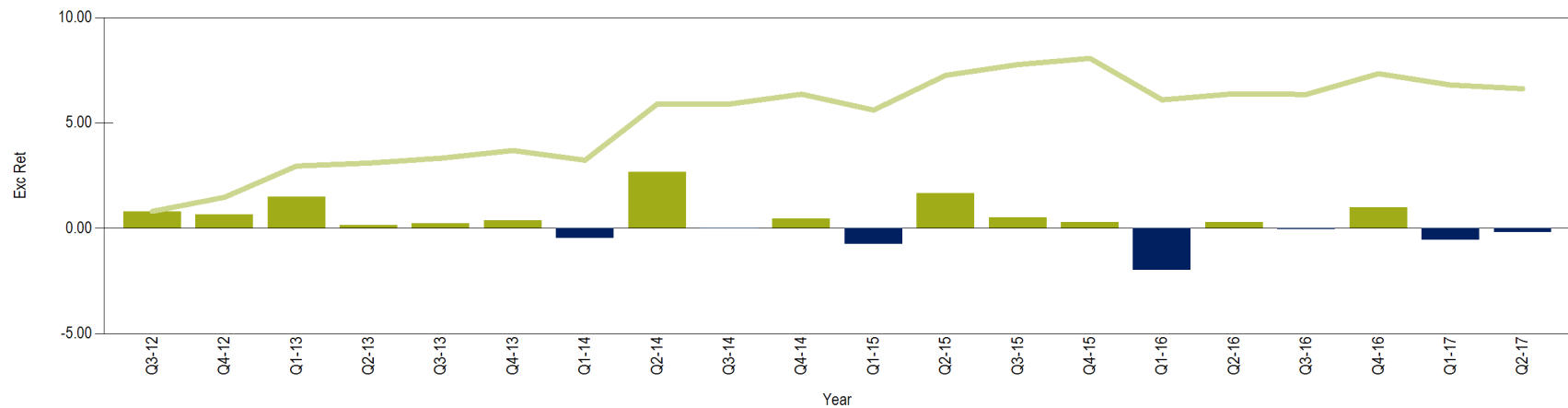
*Difference between Policy and Current Allocation

Allocations may not add to 100% due to rounding.

Total Fund Performance Summary

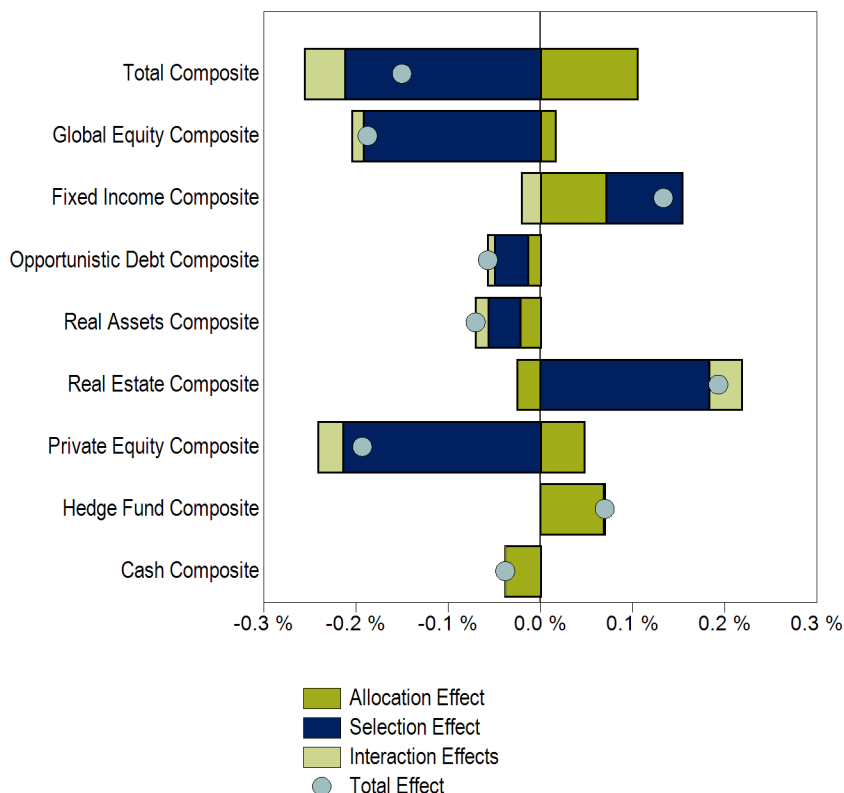
	Market Value	3 Mo	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs
Total Composite	\$2,163,726,898	2.97%	6.25%	11.23%	6.20%	9.82%	5.19%
<i>Policy Index</i>		3.14%	6.99%	10.95%	5.94%	8.41%	5.29%
<i>InvestorForce Public DB Net Median</i>		2.77%	7.27%	11.88%	4.85%	8.19%	5.03%

Quarterly and Cumulative Excess Performance



Total Fund Attribution Analysis

Attribution Effects Relative to Policy Index
3 Months Ending June 30, 2017



Attribution Summary
3 Months Ending June 30, 2017

	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Global Equity Composite	3.6%	4.3%	-0.6%	-0.2%	0.0%	0.0%	-0.2%
Fixed Income Composite	2.1%	1.7%	0.4%	0.1%	0.1%	0.0%	0.1%
Opportunistic Debt Composite	1.7%	2.2%	-0.5%	0.0%	0.0%	0.0%	-0.1%
Real Assets Composite	1.0%	1.5%	-0.5%	0.0%	0.0%	0.0%	-0.1%
Real Estate Composite	3.3%	1.5%	1.8%	0.2%	0.0%	0.0%	0.2%
Private Equity Composite	5.4%	6.8%	-1.5%	-0.2%	0.0%	0.0%	-0.2%
Hedge Fund Composite	0.7%	0.7%	0.0%	0.0%	0.1%	0.0%	0.1%
Cash Composite	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	3.0%	3.1%	-0.2%	-0.2%	0.1%	0.0%	-0.2%

Note: Plan attribution calculations are returns based and the results shown reflect the composites shown. As a result, the total returns shown may vary from the calculated return shown on the performance summary.

The target return shown for each composite is a custom index, based on aggregated policy indices. This policy index asset weights the underlying policy indices of each option in the plan and the respective benchmark return.

The allocation, selection, and interaction effects are calculated using the custom index described above along with the policy or target weight of each composite.
May not add due to rounding

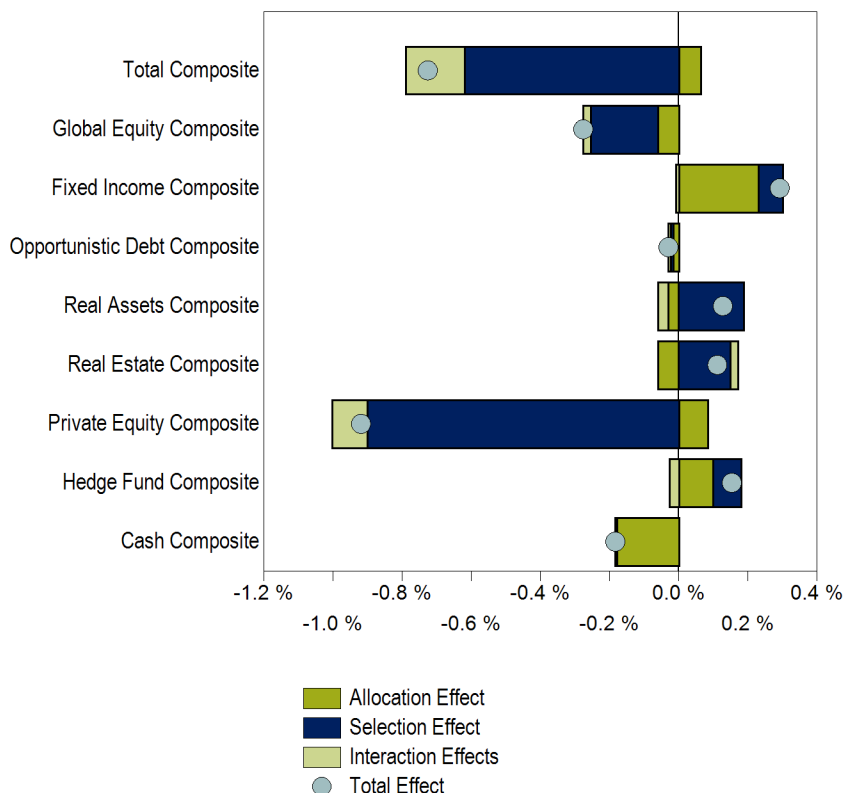
Allocation Effect - The return attributable to the asset allocation of the portfolio

Selection Effect - The return attributable to the managers' security selection

Interaction Effect - The return attributable to the interaction between the Allocation and Selection Effects

Total Fund Attribution Analysis

Attribution Effects Relative to Policy Index
YTD Ending June 30, 2017



Attribution Summary
YTD Ending June 30, 2017

	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Global Equity Composite	10.8%	11.5%	-0.7%	-0.2%	-0.1%	0.0%	-0.3%
Fixed Income Composite	2.9%	2.7%	0.3%	0.1%	0.2%	0.0%	0.3%
Opportunistic Debt Composite	4.8%	4.9%	-0.2%	0.0%	0.0%	0.0%	0.0%
Real Assets Composite	5.5%	3.5%	2.1%	0.2%	0.0%	0.0%	0.1%
Real Estate Composite	4.6%	3.2%	1.5%	0.1%	-0.1%	0.0%	0.1%
Private Equity Composite	5.7%	11.7%	-6.1%	-0.9%	0.1%	-0.1%	-0.9%
Hedge Fund Composite	3.8%	3.1%	0.7%	0.1%	0.1%	0.0%	0.2%
Cash Composite	0.3%	0.4%	-0.1%	0.0%	-0.2%	0.0%	-0.2%
Total	6.2%	7.0%	-0.8%	-0.6%	0.1%	-0.2%	-0.7%

Note: Plan attribution calculations are returns based and the results shown reflect the composites shown. As a result, the total returns shown may vary from the calculated return shown on the performance summary.

The target return shown for each composite is a custom index, based on aggregated policy indices. This policy index asset weights the underlying policy indices of each option in the plan and the respective benchmark return.

The allocation, selection, and interaction effects are calculated using the custom index described above along with the policy or target weight of each composite.
May not add due to rounding

Allocation Effect - The return attributable to the asset allocation of the portfolio

Selection Effect - The return attributable to the managers' security selection

Interaction Effect - The return attributable to the interaction between the Allocation and Selection Effects

MPERS

Total Composite

	Policy %	% of Portfolio	Market Value (\$)	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Composite	100.00	100.00	2,163,726,898	2.97	36	6.25	84	11.23	64	6.20	5	9.82	6	5.19	43
<i>Policy Index</i>				3.14	26	6.99	58	10.95	66	5.94	8	8.41	46	5.29	37
Global Equity Composite	30.00	30.70	664,326,249			10.81	58	20.89	38	5.72	36	12.35	27	4.51	40
<i>MSCI ACWI</i>						11.48	51	18.78	52	4.82	48	10.54	60	3.71	67
Fixed Income Composite	20.00	15.17	328,314,319			2.93	82	3.69	59	5.75	3	6.26	16	6.12	24
<i>Fixed Income Custom Benchmark</i>						2.66	86	0.94	77	2.77	39	2.74	64	4.73	54
Opportunistic Debt Composite	7.50	9.03	195,426,266			4.78	32	--	--	--	--	--	--	--	--
<i>BBgBarc US High Yield TR</i>						4.93	24	12.70	27	4.48	28	6.89	25	7.67	14
Real Assets Composite	7.50	10.25	221,757,657			5.52	--	13.40	--	2.40	--	--	--	--	--
<i>CPI + 4% (Unadjusted)</i>						3.46	--	5.69	--	4.95	--	5.36	--	5.69	--
Real Estate Composite	10.00	10.43	225,733,199			4.62	--	6.74	--	9.93	--	13.00	--	4.89	--
<i>NFI-ODCE Eq Wtd Net Non Lag</i>						3.15	--	7.23	--	10.67	--	10.83	--	4.16	--
Private Equity Composite	15.00	16.13	348,961,860			5.68	--	9.92	--	9.67	--	12.82	--	6.23	--
<i>MO Hwy Priv. Equ. Index - Lagged</i>						11.74	--	20.64	--	13.65	--	16.67	--	11.04	--
Hedge Fund Composite	10.00	6.90	149,231,207			3.84	--	10.18	--	2.02	--	4.73	--	3.70	--
<i>HFRI Fund of Funds Composite Index</i>						3.14	--	6.41	--	1.53	--	3.86	--	0.86	--
Cash Composite	0.00	1.39	29,976,141			0.27	--	0.39	--	0.18	--	0.16	--	0.59	--
<i>91 Day T-Bills</i>						0.36	--	0.54	--	0.24	--	0.16	--	0.44	--

Total Composite is ranked in the IFx Public DB (peer) Net + Universe

Global Equity Composite is ranked in the eA Global All Cap Equity Net Universe

Fixed Income Composite is ranked in the eA All Global Fixed Inc Net Universe

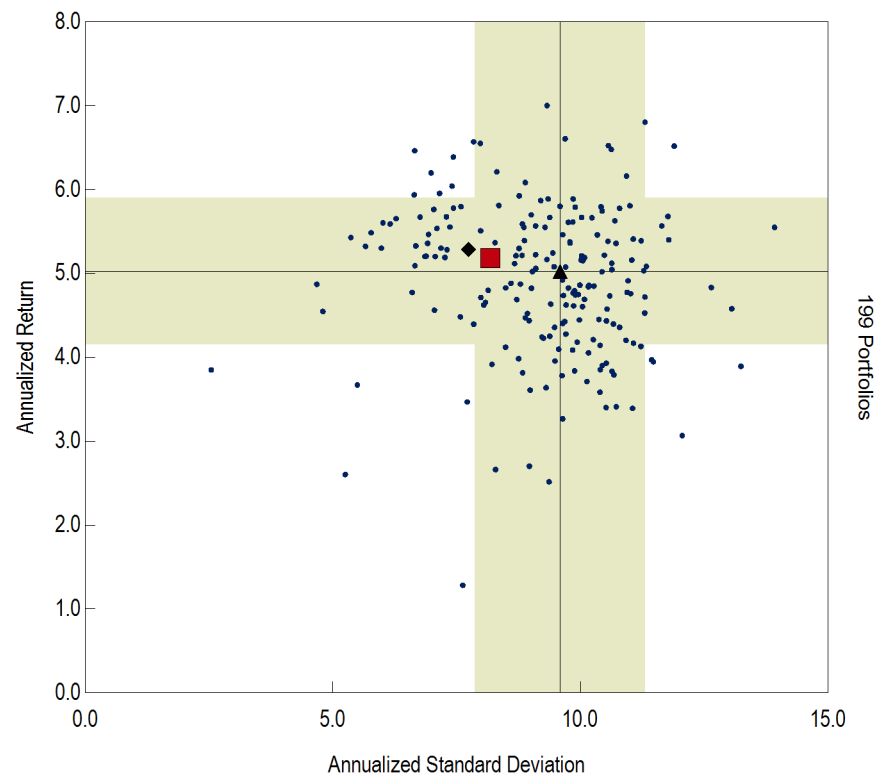


NEPC, LLC

June 30, 2017

Total Fund Risk/Return - 10 Years

10 Years Ending June 30, 2017



Statistics Summary

10 Years Ending June 30, 2017

	Anlzd Ret	Rank	Anlzd Std Dev	Rank
Total Composite	5.19%	43	8.18%	25
Policy Index	5.29%	37	7.74%	20

Statistics Summary

10 Years Ending June 30, 2017

	Sharpe Ratio	Rank
Total Composite	0.58	25
Policy Index	0.63	22

- Past performance is no guarantee of future results.
- NEPC relies on the plan's custodian bank for portfolio pricing, calculation of accruals, and transaction information. Information on market indices and security characteristics is received from other sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.
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