

# MEETING MATERIALS

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## Municipal Employees' Retirement System of Louisiana

August 25, 2016



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- 1. Fiscal Year 2016 Attribution Analysis**
- 2. Rebalance Updates**
- 3. July Performance Report**

## **Fiscal Year 2016 Attribution Analysis**

**Total System Performance vs. Target Policy Performance<sup>1</sup>**  
Fiscal Year 2016

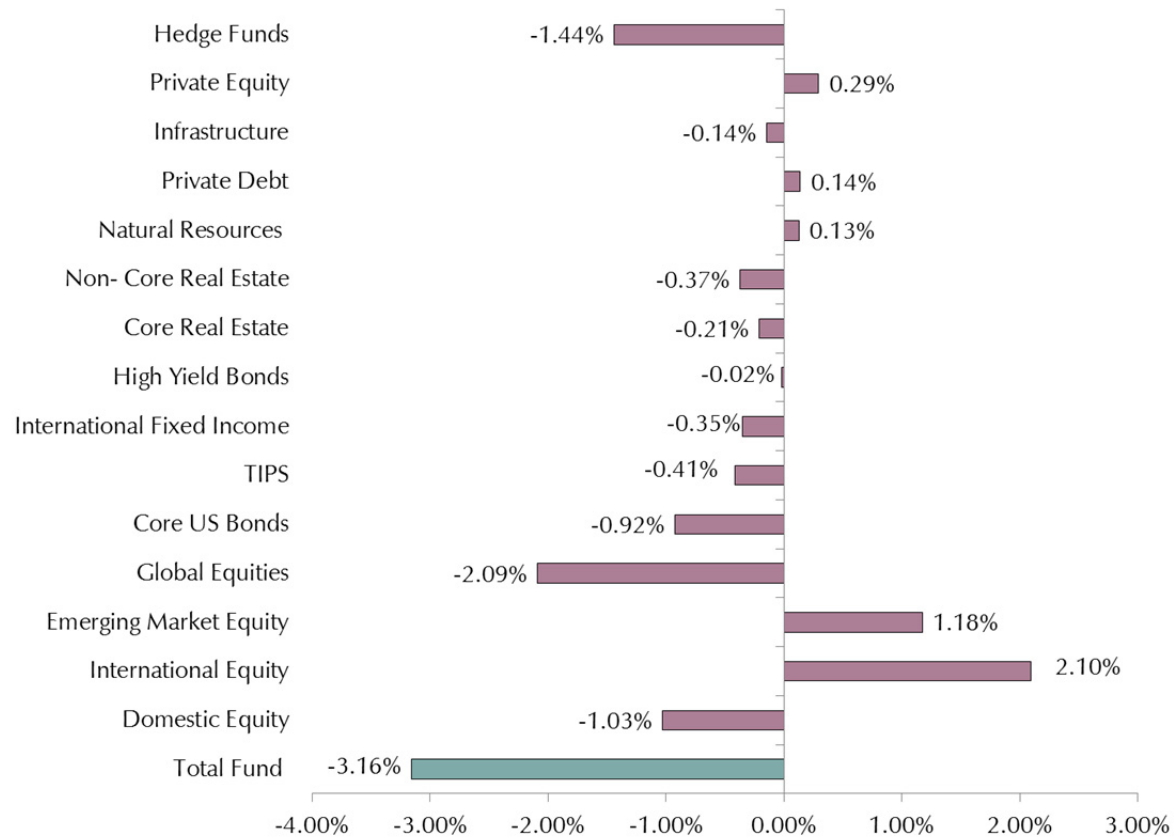
	6/30/16 MV	Actual %	Target %	Reported Performance	Target Policy Performance
<b>Total Fund Aggregate</b>	<b>776</b>	<b>100</b>	<b>NA</b>	<b>-2.6%</b>	<b>0.6%</b>
Domestic Equity	168.7	22%	28%	-0.5%	2.1%
International Equity	36.3	5%	12%	1.7%	-10.2%
Emerging Market Equity	47.0	6%	10%	-7.9%	-12.1%
Global Equities	105.1	14%	0%	-9.3%	-3.7%
Core US Bonds	45.9	6%	18%	7.0%	6.0%
TIPS	0.0	0%	7%	0.0%	4.4%
International Fixed Income	34.2	4%	5%	4.9%	8.9%
High Yield Bonds	35.2	5%	5%	1.4%	1.6%
Core Real Estate	14.9	2%	4%	11.2%	9.1%
Non- Core Real Estate	32.9	4%	0%	-5.0%	10.6%
Natural Resources	47.8	6%	3%	-1.1%	-5.6%
Private Debt	35.6	5%	3%	4.5%	3.6%
Infrastructure	0.0	0%	3%	0.0%	3.7%
Private Equity	52.2	7%	2%	5.2%	6.6%
Hedge Funds	85.5	11%	0%	-7.8%	-5.2%
Cash	34.7	4%	0%	0.0%	0.0%

- For the Fiscal Year 2016 the System returned -2.6%, net of fees, versus a target policy benchmark return of 0.6%. Underperformance relative to the target policy benchmark was mostly attributable to significant over/underweights relative to the target asset allocation.

<sup>1</sup> Target Policy performance is composed by the target weight of each asset class multiplied by the annual performance of each asset class' respective benchmark.

**Contribution to Excess Return: Total Effect**  
Fiscal Year 2016

- The total effect was significantly impacted by an overweight in Global Equities and Hedge Funds, as well as an underweight to the Core U.S. Bonds.



# Rebalance Updates

Hedge Fund Redemption Detail

	Estimated Investment (8/15/16)	Termination Status	Proceeds Received as of 8/15/16	Expected Time Frame <sup>1</sup>
Argonaut Macro Partnership	2.2	Partially Liquidated	\$19.5 mm received 4/2016	Balance payable in April 2017 after Fund's 2016 Audit
GoldenTree Credit Opportunities	0.4	Partially Liquidated	\$10.4 mm received 4/2016, \$7.0 mm received 7/2016 \$1.4 mm received 8/2016	Balance payable in April 2017 after Fund's 2016 Audit
GoldenTree Offshore Fund	5.1	Partially Liquidated	\$9.6 mm received 5/2016, \$6.4 mm received 7/2016 \$1.1 mm received 8/2016	Balance payable in in April 2017 after Fund's 2016 Audit, except for the \$4.8 mm side-pocket assets. Side-pocket assets could take up to 24 months.
GMT - Bay Resource Partners	1.0	Partially Liquidated	\$19.3 mm received 7/2016	Balance payable in April 2017 after Fund's 2016 Audit
Paulson Merger Arbitrage	0.0	Fully liquidated	\$11.5 mm received 7/2016	Fully liquidated
Scoggin Worldwide Distressed	30.3	Submitted	\$0	First distribution expected to be approximately \$7.5 mm in October 2016. Proceeds, excluding hold back, payable approximately 25%, per quarter.
<b>Totals</b>	<b>\$39.2</b>		<b>\$86.1 million received as of 8/15/16</b>	

<sup>1</sup> All hedge funds which MERS is currently invested are limited partnerships. Limited partnerships will "holdback" any portion of a full redemption, typically between 5% and 10% of the investors value at the termination date. The limited partnership is then audited and funds are released. Holdbacks are not invested in securities, rather cash or cash equivalents, depending upon the limited partnership documentation requirements. No fund level gating mechanism are evaluated in this assessment. Expected cash proceeds are based on percentage of most recent NAVs and are not guaranteed pay outs.



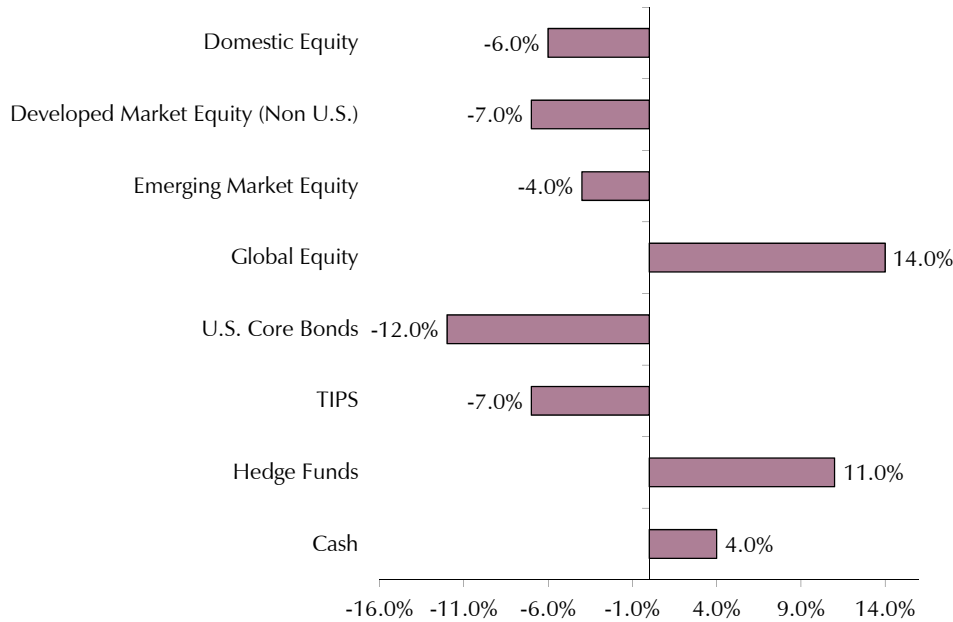
**Rebalance Recommendation Status Update**

<b>From</b>	<b>To</b>	<b>Amount (\$ mm)</b>	<b>Status</b>
Cash	TIPS	<b>\$30.0</b>	Completed
Cash	Northern Trust Barclays Aggregate Index	<b>\$30.0</b>	Completed
Cash	Northern Trust S&P 500 Index	<b>\$10.0</b>	Completed

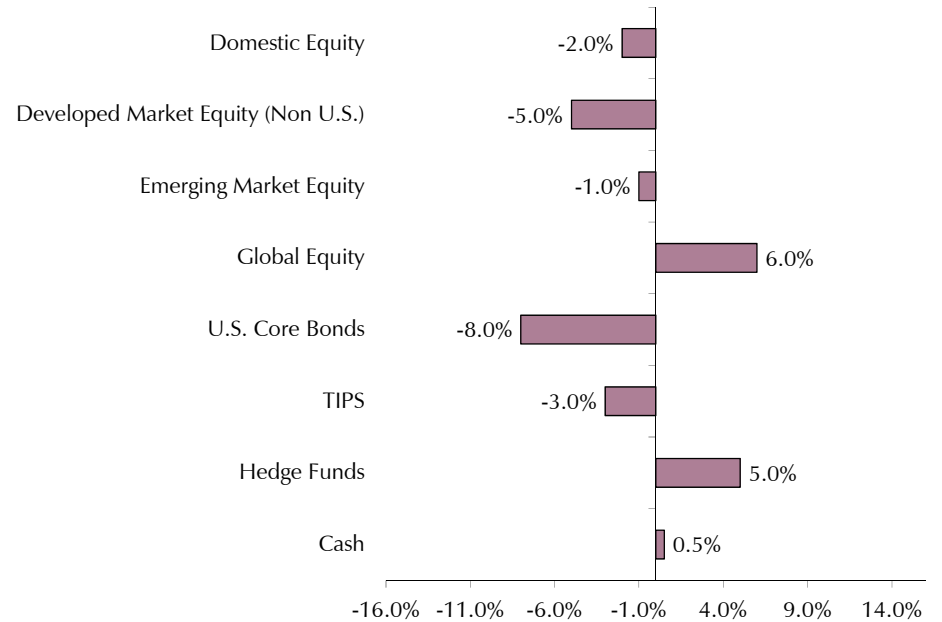
<b>From</b>	<b>To</b>	<b>Amount (\$ mm)</b>	<b>Status</b>
Thornburg Global Opportunities	Northern Trust S&P 400 MidCap Index (\$20.0 mm) First Eagle International Value (\$10.0 mm)	<b>\$35.0</b>	Completed
Kleinwort Benson Investors Water	WCM Focused Growth International (\$10.0 mm) Northern Trust MSCI Emerging Markets Index (\$10.0 mm) Dimensional Emerging Markets Value (\$10.0 mm)	<b>\$25.0</b>	Completed

- The rebalancing resulted in eight asset classes moving closer to target weights.

Select Asset Weights vs. Target as of 6/30/16



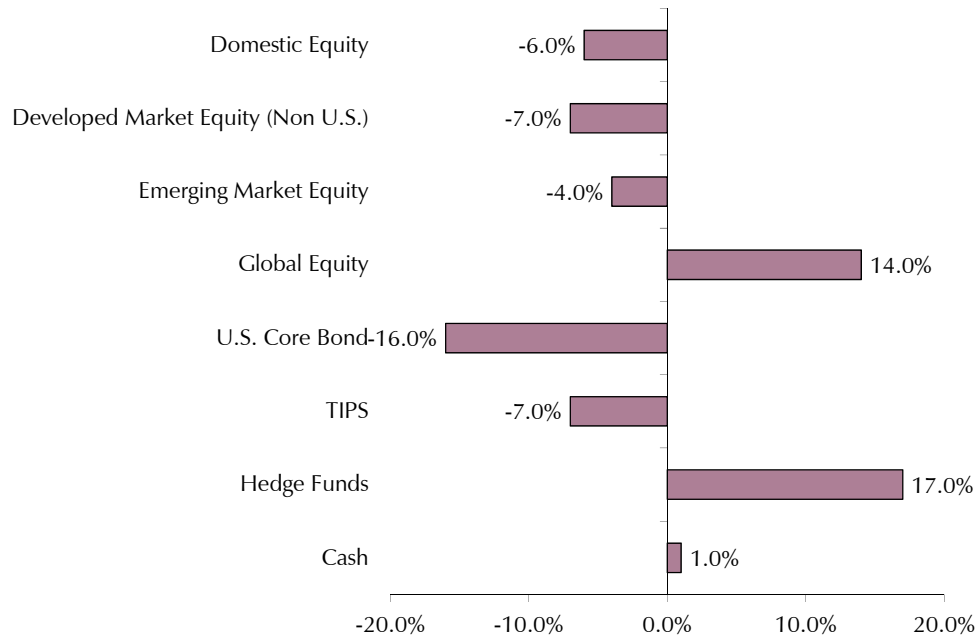
Estimated Asset Weight vs. Target as of 8/15/16



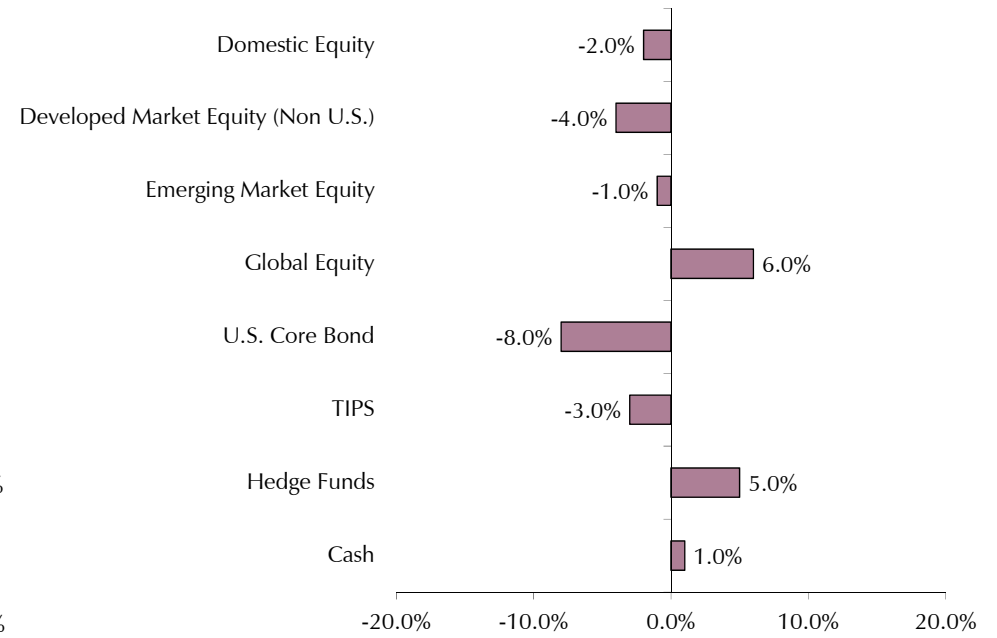
- The rebalance significantly reduced the largest overweight asset classes and increased the most underweight asset classes.

Appendix: Progress Since New Asset Allocation Was Adopted

Select Asset Weights vs. Target as of 2/29/16



Estimated Asset Weight vs. Target as of 8/15/16



- On February 29, 2016 the Retirement System had approximately \$123.3 million invested in hedge funds. As of mid-August the exposure was approximately \$39 million.
- On February 29, 2016 the Retirement System had approximately \$15.4 million invested in U.S. core bonds. As of mid-August the exposure was approximately \$76 million.

# **Preliminary Performance Update July 31, 2016**

## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Portfolio Roster as of 7/31/16

	Market Value 7/31/16 (\$ mm)	% of Retirement System	Target Allocation (%)	Target Range (%)	Market Value 6/30/16 (\$ mm)
<b>Aggregate Assets</b>	<b>792.3</b>	<b>100</b>	<b>NA</b>	<b>NA</b>	<b>776.6</b>
Domestic Equity Assets	175.6	22	28	18-38	168.7
International Developed Equity Assets	57.9	7	12	7-17	36.3
International Emerging Market Equity Assets	49.7	6	10	5-15	47.0
Global Equity Assets	73.0	9	0	0-5	105.1
U.S. Core Bond Assets	76.4	10	18	8-28	45.9
Treasury Inflation Protected Securities	30.0	4	7	2-12	0.0
High Yield Bond Assets	35.8	5	5	0-10	35.2
Foreign Bond Assets	34.7	4	5	0-10	34.2
Core Real Estate Assets	14.7	2	4	0-8	14.9
Natural Resources Assets	47.5	6	3	0-6	47.8
Private Debt Assets	35.3	4	3	0-6	35.7
Infrastructure Assets	0.0	0	3	0-6	0.0
Private Equity Assets	52.2	7	2	0-4	52.2
Hedge Fund Assets	41.7	5	0	0-5	85.7
Non-Core Real Estate Assets	33.2	4	0	0-5	33.3
Cash	34.7	4	0	0-5	34.7



## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Portfolio Roster as of 7/31/16

	Market Value 7/31/16 (\$ mm)	% of Asset Class	% of Retirement System	Target Allocation (%)	Target Range (%)	Market Value 6/30/16 (\$ mm)
<b>Total Retirement System Aggregate Assets<sup>1</sup></b>	<b>792.3</b>	<b>NA</b>	<b>100</b>	<b>NA</b>	<b>NA</b>	<b>776.6</b>
<b>Domestic Equity Assets</b>	<b>175.6</b>	<b>100</b>	<b>22</b>	<b>28</b>	<b>18-38</b>	<b>168.7</b>
Northern Trust S&P 500 Index	104.3	59	13			100.6
Barrow Hanley Small Cap Value	40.0	23	5			38.1
Northern Trust S&P 400 MidCap Index	31.3	18	4			30.1
<b>International Developed Equity Assets</b>	<b>57.9</b>	<b>100</b>	<b>7</b>	<b>12</b>	<b>7-17</b>	<b>36.3</b>
First Eagle International Value Equity	31.2	54	4			20.5
WCM Focused Growth International	26.6	46	3			15.9
<b>International Emerging Market Equity Assets</b>	<b>49.7</b>	<b>100</b>	<b>6</b>	<b>10</b>	<b>5-15</b>	<b>47.0</b>
Northern Trust MSCI Emerging Markets Index	27.8	56	4			26.5
Dimensional Emerging Markets Value	21.8	44	3			20.5
<b>Global Equity Assets</b>	<b>73.0</b>	<b>100</b>	<b>9</b>	<b>0</b>	<b>0-5</b>	<b>105.1</b>
Kleinwort Benson Investors Water	43.9	60	6			42.8
Thornburg Global Opportunities	29.1	40	4			62.2

<sup>1</sup> Green, yellow, red on the portfolio roster represents the liquidity profile of the asset, not the performance. Green, yellow, red in the performance section represents the relative performance of the asset to its benchmark.



## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Portfolio Roster as of 7/31/16

	Market Value 7/31/16 (\$ mm)	% of Asset Class	% of Retirement System	Target Allocation (%)	Target Range (%)	Market Value 6/30/16 (\$ mm)
<b>U.S. Core Bond Assets</b>	<b>76.4</b>	<b>100</b>	<b>10</b>	<b>18</b>	<b>8-28</b>	<b>45.9</b>
Northern Trust Barclays Aggregate Index	76.2	100	10			45.7
Internal Fixed Income Account	0.2	< 1	< 1			0.2
<b>Treasury Inflation Protected Securities</b>	<b>30.0</b>	<b>100</b>	<b>4</b>	<b>7</b>	<b>2-12</b>	<b>0.0</b>
Northern Trust TIPS	30.0	100	4			0.0
<b>High Yield Bond Assets</b>	<b>35.8</b>	<b>100</b>	<b>5</b>	<b>5</b>	<b>0-10</b>	<b>35.2</b>
Loomis Sayles Multi-Sector Full Discretion	35.8	100	5			35.2
<b>Foreign Bond Assets</b>	<b>34.7</b>	<b>100</b>	<b>4</b>	<b>5</b>	<b>0-10</b>	<b>34.2</b>
Brandywine Global Opportunistic Fixed Income	34.7	100	4			34.2
<b>Core Real Estate Assets</b>	<b>14.7</b>	<b>100</b>	<b>2</b>	<b>4</b>	<b>0-8</b>	<b>14.9</b>
Sentinel Real Estate	14.7	100	2			14.9
<b>Natural Resources Assets</b>	<b>47.5</b>	<b>100</b>	<b>6</b>	<b>3</b>	<b>0-6</b>	<b>47.8</b>
Resource Environmental Solutions <sup>1</sup>	40.8	86	5			41.2
Timbervest Crossover Partners II <sup>2</sup>	6.6	14	1			6.6

<sup>1</sup> Market value as of June 30, 2015 fiscal year audit, adjusted for subsequent cash flows through July 31, 2016.

<sup>2</sup> Market value as of March 31, 2016 adjusted for subsequent cash flows through July 31, 2016, unless otherwise noted.



## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Portfolio Roster as of 7/31/16

	Market Value 7/31/16 (\$ mm)	% of Asset Class	% of Retirement System	Target Allocation (%)	Target Range (%)	Market Value 6/30/16 (\$ mm)
<b>Private Debt Assets<sup>1</sup></b>	<b>35.3</b>	<b>100</b>	<b>4</b>	<b>3</b>	<b>0-6</b>	<b>35.7</b>
Republic Business Credit <sup>2</sup>	18.0	51	2			18.0
BlueBay Direct Lending Fund II	13.3	38	2			13.3
LEM Investors Real Estate Mezzanine <sup>3</sup>	1.8	5	< 1			2.1
Franchise Equity Capital Partners III	1.4	4	< 1			1.4
Franchise Equity Capital Partners II	0.8	2	< 1			0.8
<b>Infrastructure Assets</b>	<b>0.0</b>	<b>100</b>	<b>0</b>	<b>3</b>	<b>0-6</b>	<b>0.0</b>
<b>Private Equity Assets<sup>1</sup></b>	<b>52.2</b>	<b>100</b>	<b>7</b>	<b>2</b>	<b>0-4</b>	<b>52.2</b>
Compass Island Investment Opportunities Fund A	22.6	43	3			22.6
Capital Spring Finance Company Franchise IV <sup>2</sup>	13.3	25	2			13.3
Greenspring Crossover Ventures I <sup>4</sup>	7.0	13	1			7.0
Whalehaven Fund Limited <sup>2</sup>	5.0	10	1			5.0
Louisiana Fund I	2.1	4	< 1			2.1
Franchise Equity Capital Partners I <sup>4</sup>	1.0	2	< 1			1.0
Louisiana Fund II	0.7	1	< 1			0.7
Entropy Ventures <sup>2</sup>	0.6	1	< 1			0.6

<sup>1</sup> Market values as of March 31, 2016, adjusted for subsequent cash flows (where applicable) through July 31, 2016, unless otherwise noted.

<sup>2</sup> Market value as of June 30, 2015 fiscal year audit, adjusted for subsequent cash flows through July 31, 2016.

<sup>3</sup> Market value of outstanding loan balance.

<sup>4</sup> Market value as of June 30, 2016





## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Portfolio Roster as of 7/31/16

	Market Value 7/31/16 (\$ mm)	% of Asset Class	% of Retirement System	Target Allocation (%)	Target Range (%)	Market Value 6/30/16 (\$ mm)
<b>Hedge Fund Assets</b>	<b>41.7</b>	<b>100</b>	<b>5</b>	<b>0</b>	<b>0-5</b>	<b>85.7</b>
Scoggin Worldwide Distressed <sup>1</sup>	30.4	73	4			30.2
GoldenTree Offshore Fund	6.3	15	1			12.7
Argonaut Macro Partnership <sup>2</sup>	2.2	5	< 1			2.2
GoldenTree Credit Opportunities	1.8	4	< 1			8.8
GMT - Bay Resource Partners Offshore Fund <sup>2</sup>	1.0	2	< 1			20.3
<b>Non-Core Real Estate Assets</b>	<b>33.2</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>0-5</b>	<b>33.3</b>
Bedico Creek Preserve <sup>3</sup>	8.2	25	1			8.2
AEW Partners VII <sup>4</sup>	6.3	19	1			6.3
AEW Partners VI <sup>4</sup>	6.1	18	1			6.1
JPMorgan India Property <sup>4</sup>	4.6	14	1			4.6
Gainesville Vision <sup>3</sup>	4.2	13	1			4.2
Crow Holdings Realty Partners IV <sup>4</sup>	2.5	8	< 1			2.5
Americus Real Estate Fund II <sup>5</sup>	0.7	2	< 1			0.7
MEREC I/Land Baron <sup>3</sup>	0.4	1	< 1			0.4
AEW Partners V <sup>4</sup>	0.2	1	< 1			0.2
<b>Cash</b>	<b>34.7</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>0-5</b>	<b>34.7</b>

<sup>1</sup> Estimated value based on portfolio performance for the month of July, unless otherwise noted.

<sup>2</sup> Hedge Fund 10% "hold back" payable in April 2017 upon completion of Fund's 2016 audit.

<sup>3</sup> Market value as of June 30, 2015 fiscal year audit, adjusted for subsequent cash flows through July 31, 2016.

<sup>4</sup> Market value as of March 31, 2016, adjusted for subsequent cash flows through July 31, 2016.

<sup>5</sup> Market value as of December 31, 2015 adjusted for subsequent cash flows through July 31, 2016.



## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Performance as of 7/31/16

	July (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	Inception Date	Since Inception (%)
<b>Total Retirement System Aggregate<sup>1</sup></b>	<b>2.1</b>	<b>4.8</b>	<b>-0.5</b>	<b>2.6</b>	<b>3.0</b>	<b>3.6</b>	<b>1/1/06</b>	<b>3.8</b>
60% MSCI ACWI / 40% Barclays Universal Policy Benchmark <sup>2</sup>	2.9	6.1	2.4	5.4	5.7	5.2		5.4
	2.9	6.3	1.5	5.4	6.2	6.1		6.4
Domestic Equity	4.1	8.3	3.6	8.5	9.8	7.5	2/1/06	7.0
Russell 3000	4.0	7.7	4.4	10.6	13.0	7.8		7.4
Developed Equity	4.3	8.1	5.6	NA	NA	NA	5/31/15	2.5
MSCI EAFE	5.1	0.4	-7.5	2.0	3.0	2.0		-7.1
Emerging Market Equity	5.6	13.2	1.6	NA	NA	NA	12/31/13	-0.6
MSCI Emerging Markets	5.0	11.8	-0.7	-0.3	-2.7	3.9		-3.2
Global Equity	3.0	1.7	-7.6	7.2	6.7	5.5	2/1/06	5.4
MSCI ACWI	4.3	5.6	-0.4	5.9	6.6	4.6		4.6
U.S. Core Bonds	0.6	5.8	7.3	1.4	NA	NA	4/30/13	1.5
Barclays Aggregate	0.6	6.0	5.9	4.2	3.6	5.1		3.1
Treasury Inflation Protected Securities	NA	NA	NA	NA	NA	NA	7/1/16	NA
Barclays U.S. TIPS	0.9	7.2	5.0	2.4	2.0	4.7		4.4
High Yield Bonds	2.0	9.2	3.6	4.9	NA	NA	4/30/13	3.9
Barclays High Yield	2.7	12.0	5.0	4.5	6.2	7.7		4.1

<sup>1</sup> Performance is presented net of fees throughout this entire report

<sup>2</sup> As of February 1, 2016 the policy benchmark performance is 50% equities (represented by 28% Russell 3000 index, 12% FTSE All World (ex. U.S.) index, 10% MSCI EM index), 35% public fixed income (represented by performance of Barclays Universal) and 15% alternatives (represented by 4% NCREIF Property Index, 3% S&P Global Natural Resources index, 3% Barclays High Yield + 2% index, 2% S&P 500 +3% index, 3% S&P Global Infrastructure index). Prior to February 1, 2016 the policy benchmark performance is 50% equities (represented by 26% Russell 3000 index, 12% MSCI EAFE index, 12% MSCI EM index), 15% public fixed income (represented by performance of Barclays Universal) and 35% alternatives (represented by 7% HFRI Fund WC, 7% NCREIF Property Index, 7% S&P Global Natural Resources index, 7% Barclays High Yield index, 7% S&P 500 +3% index).



## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Performance as of 7/31/16

	July (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	Inception Date	Since Inception (%)
<b>Total Retirement System Aggregate<sup>1</sup> (continued)</b>	<b>2.1</b>	<b>4.8</b>	<b>-0.5</b>	<b>2.6</b>	<b>3.0</b>	<b>3.6</b>	<b>1/1/06</b>	<b>3.8</b>
Foreign Bonds	1.4	11.8	7.0	2.4	NA	NA	4/30/13	1.0
<i>Barclays Global Aggregate</i>	0.8	9.8	9.4	2.6	1.5	4.4		1.9
Core Real Estate	NA	NA	11.2	12.3	NA	NA	4/30/13	12.4
<i>NCREIF ODCE Equal Weighted (net)</i>	NA	NA	11.2	12.1	11.7	5.0		11.9
Natural Resources	NA	NA	-1.1	0.1	NA	NA	4/30/13	1.5
<i>S&amp;P North American Natural Resources Sector Index</i>	0.2	19.8	4.0	-4.0	-3.3	1.8		-3.4
Private Debt	0.9	2.3	4.2	7.4	NA	NA	4/30/13	5.5
<i>Barclays High Yield + 2%</i>	2.9	13.3	7.1	6.5	8.2	9.8		6.2
Infrastructure	NA	NA	NA	NA	NA	NA		NA
<i>S&amp;P Global Infrastructure Index</i>	NA	NA	5.4	8.2	7.2	NA		NA
Private Equity	NA	NA	5.2	-12.5	-9.9	NA	2/1/08	-3.3
<i>S&amp;P 500 + 3%</i>	NA	NA	8.3	14.2	16.6	10.8		10.9
Hedge Funds	NA	-1.0	-7.6	-0.5	0.5	2.4	4/1/06	2.4
<i>HFRI Fund of Funds Composite</i>	1.5	-1.2	-4.3	2.0	1.8	1.7		1.6
Non-Core Real Estate	NA	NA	-4.3	3.8	7.1	2.5	2/1/06	2.8
<i>NCREIF Property</i>	NA	NA	10.6	11.6	11.5	7.4		7.8

<sup>1</sup> Performance is presented net of fees throughout this entire report



## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Performance as of 7/31/16

	July (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	Inception Date	Since Inception (%)
<b>Total Retirement System Aggregate<sup>1</sup></b>	<b>2.1</b>	<b>4.8</b>	<b>-0.5</b>	<b>2.6</b>	<b>3.0</b>	<b>3.6</b>	<b>1/1/06</b>	<b>3.8</b>
60% MSCI ACWI / 40% Barclays Universal Policy Benchmark <sup>2</sup>	2.9	6.1	2.4	5.4	5.7	5.2		5.4
	2.9	6.3	1.5	5.4	6.2	6.1		6.4
<b>Domestic Equity</b>	<b>4.1</b>	<b>8.3</b>	<b>3.6</b>	<b>8.5</b>	<b>9.8</b>	<b>7.5</b>	<b>2/1/06</b>	<b>7.0</b>
Northern Trust S&P 500 Index	3.7	7.7	5.6	NA	NA	NA	12/1/13	9.4
S&P 500	3.7	7.7	5.6	11.2	13.4	7.7		9.5
Barrow Hanley Small Cap Value	4.9	8.6	2.6	6.2	10.0	8.9	1/1/06	9.1
Russell 2000 Value	5.4	11.8	5.6	6.0	10.0	5.9		6.4
Northern Trust S&P 400 MidCap Index	4.3	12.5	5.5	NA	NA	NA	12/1/13	8.6
S&P MidCap	4.3	12.6	5.5	9.9	12.3	9.3		8.6
<b>Developed Equity</b>	<b>4.3</b>	<b>8.1</b>	<b>5.6</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>5/31/15</b>	<b>2.5</b>
First Eagle International Value Equity	3.9	8.9	6.9	NA	NA	NA	5/1/14	2.7
MSCI EAFE	5.1	0.4	-7.5	2.0	3.0	2.0		-3.3
WCM Focused Growth International	4.9	7.2	4.1	NA	NA	NA	6/1/14	4.9
MSCI ACWI (ex. U.S.)	4.9	3.9	-5.5	1.3	1.4	2.3		-4.4

<sup>1</sup> Performance is presented net of fees throughout this entire report

<sup>2</sup> As of February 1, 2016 the policy benchmark performance is 50% equities (represented by 28% Russell 3000 index, 12% FTSE All World (ex. U.S.) index, 10% MSCI EM index), 35% public fixed income (represented by performance of Barclays Universal) and 15% alternatives (represented by 4% NCREIF Property Index, 3% S&P Global Natural Resources index, 3% Barclays High Yield + 2% index, 2% S&P 500 + 3% index, 3% S&P Global Infrastructure index). Prior to February 1, 2016 the policy benchmark performance is 50% equities (represented by 26% Russell 3000 index, 12% MSCI EAFE index, 12% MSCI EM index), 15% public fixed income (represented by performance of Barclays Universal) and 35% alternatives (represented by 7% HFRI Fund WC, 7% NCREIF Property Index, 7% S&P Global Natural Resources index, 7% Barclays High Yield index, 7% S&P 500 + 3% index).



## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Performance as of 7/31/16

	July (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	Inception Date	Since Inception (%)
<b>Emerging Market Equity</b>	<b>5.6</b>	<b>13.2</b>	<b>1.6</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>12/31/13</b>	<b>-0.6</b>
Northern Trust MSCI Emerging Markets Index	5.1	NA	NA	NA	NA	NA	6/1/16	9.2
<i>MSCI Emerging Markets</i>	5.0	11.8	-0.7	-0.3	-2.7	3.9		9.2
Dimensional Emerging Markets Value	6.3	17.2	2.0	NA	NA	NA	11/1/13	-4.6
<i>MSCI Emerging Markets</i>	5.0	11.8	-0.7	-0.3	-2.7	3.9		-3.6
<b>Global Equity</b>	<b>3.0</b>	<b>1.7</b>	<b>-7.6</b>	<b>7.2</b>	<b>6.7</b>	<b>5.5</b>	<b>2/1/06</b>	<b>5.4</b>
Thornburg Global Opportunities	3.4	-4.5	-13.9	9.8	9.3	7.6	8/1/06	7.6
<i>MSCI ACWI</i>	4.3	5.6	-0.4	5.9	6.6	4.6		4.6
Kleinwort Benson Investors Water	2.5	12.8	4.3	4.1	8.3	NA	9/1/07	3.4
<i>MSCI ACWI</i>	4.3	5.6	-0.4	5.9	6.6	4.6		2.9
<i>S-Network Global Water Index NR</i>	2.7	18.2	18.2	10.4	10.3	NA		5.0
<b>U.S. Core Bonds</b>	<b>0.6</b>	<b>5.8</b>	<b>7.3</b>	<b>1.4</b>	<b>NA</b>	<b>NA</b>	<b>4/30/13</b>	<b>1.5</b>
Northern Trust Barclays Aggregate Index	0.6	6.0	NA	NA	NA	NA	12/31/15	5.6
<i>Barclays Aggregate</i>	0.6	6.0	5.9	4.2	3.6	5.1		5.6
Internal Fixed Income Account	-0.6	2.6	4.4	0.4	1.5	4.4	3/1/06	4.4
<i>Barclays Aggregate</i>	0.6	6.0	5.9	4.2	3.6	5.1		4.9



## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Performance as of 7/31/16

	July (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	Inception Date	Since Inception (%)
<b>Treasury Inflation Protected Securities</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>7/1/16</b>	<b>NA</b>
Northern Trust TIPS-NL	NA	NA	NA	NA	NA	NA	7/1/16	NA
<i>Barclays U.S. TIPS</i>	0.9	7.2	5.0	2.4	2.0	4.7		4.4
<b>High Yield Bonds</b>	<b>2.0</b>	<b>9.2</b>	<b>3.6</b>	<b>4.9</b>	<b>NA</b>	<b>NA</b>	<b>4/30/13</b>	<b>3.9</b>
Loomis Sayles Multi-Sector Full Discretion	2.0	9.2	3.6	4.9	5.6	7.8	1/1/06	7.7
<i>Barclays Gov't/Credit</i>	0.8	7.1	6.8	4.4	3.9	5.2		4.9
<i>Barclays High Yield</i>	2.7	12.0	5.0	4.5	6.2	7.7		7.7
<b>Foreign Bonds</b>	<b>1.4</b>	<b>11.8</b>	<b>7.0</b>	<b>2.4</b>	<b>NA</b>	<b>NA</b>	<b>4/30/13</b>	<b>1.0</b>
Brandywine Global Opportunistic Fixed Income	1.4	11.8	7.0	3.0	3.8	6.2	1/1/06	6.4
<i>Barclays Global Aggregate</i>	0.8	9.8	9.4	2.6	1.5	4.4		4.4
<b>Core Real Estate</b>	<b>NA</b>	<b>NA</b>	<b>11.2</b>	<b>12.3</b>	<b>NA</b>	<b>NA</b>	<b>4/30/13</b>	<b>12.4</b>
Sentinel Real Estate	NA	NA	11.2	12.3	17.2	6.0	3/1/06	6.2
<i>NCREIF Property</i>	NA	NA	10.6	11.6	11.5	7.4		7.8
<i>NCREIF ODCE Equal Weighted (net)</i>	NA	NA	11.2	12.1	11.7	5.0		11.9
<b>Natural Resources</b>	<b>NA</b>	<b>NA</b>	<b>-1.1</b>	<b>0.1</b>	<b>NA</b>	<b>NA</b>	<b>4/30/13</b>	<b>1.5</b>
S&P North American Natural Resources Sector Index	0.2	19.8	4.0	-4.0	-3.3	1.8		-3.4

## Municipal Employees' Retirement System of Louisiana

## Aggregate Assets Performance as of 7/31/16

	July (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	Inception Date	Since Inception (%)
<b>Private Debt</b>	NA	NA	4.2	7.4	NA	NA	4/30/13	5.5
<i>Barclays High Yield + 2%</i>	NA	NA	7.1	6.5	8.2	9.8		6.2
<b>Infrastructure</b>	NA	NA	NA	NA	NA	NA		NA
<i>S&amp;P Global Infrastructure Index</i>	2.8	17.3	5.4	8.2	7.2	NA		NA
<b>Private Equity</b>	NA	NA	5.2	-12.5	-9.9	NA	2/1/08	-3.3
<i>S&amp;P 500 + 3%</i>	NA	NA	8.3	14.2	16.6	10.8		10.9
<b>Hedge Funds</b>	NA	-1.0	-7.6	-0.5	0.5	2.4	4/1/06	2.4
<i>Scoggin Worldwide Distressed</i>	0.7	10.3	-0.6	1.2	2.9	6.3	3/1/06	6.5
<i>HFRI Event Driven Index</i>	2.0	4.2	-0.9	2.2	3.2	4.2		4.3
<i>HFRI ED Distressed / Restructuring</i>	2.4	6.0	-2.2	0.5	2.6	3.6		4.0
<i>Barclays High Yield</i>	2.7	12.0	5.0	4.5	6.2	7.7		7.6
<b>Non-Core Real Estate</b>	NA	NA	-4.3	3.8	7.1	2.5	2/1/06	2.8
<i>NCREIF Property</i>	NA	NA	10.6	11.6	11.5	7.4		7.8

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