change



Louisiana State Employees' Retirement System 2020 INVESTMENT REPORT

Table of _____ R



CHANGE

Change is defined by Webster's Dictionary as "to make or become different."

It is one word that completely describes 2020.

Many times, we strive for change, usually in efforts to better processes or perhaps improve ourselves. Other times, however, as is the case with 2020, change is thrust upon us. No one anticipated the change that the last year experienced, but we must remember that change is what creates innovation and creativity and will provide the means to emerge from the latest disruption. This requires a changed approach to living, working, and investing.

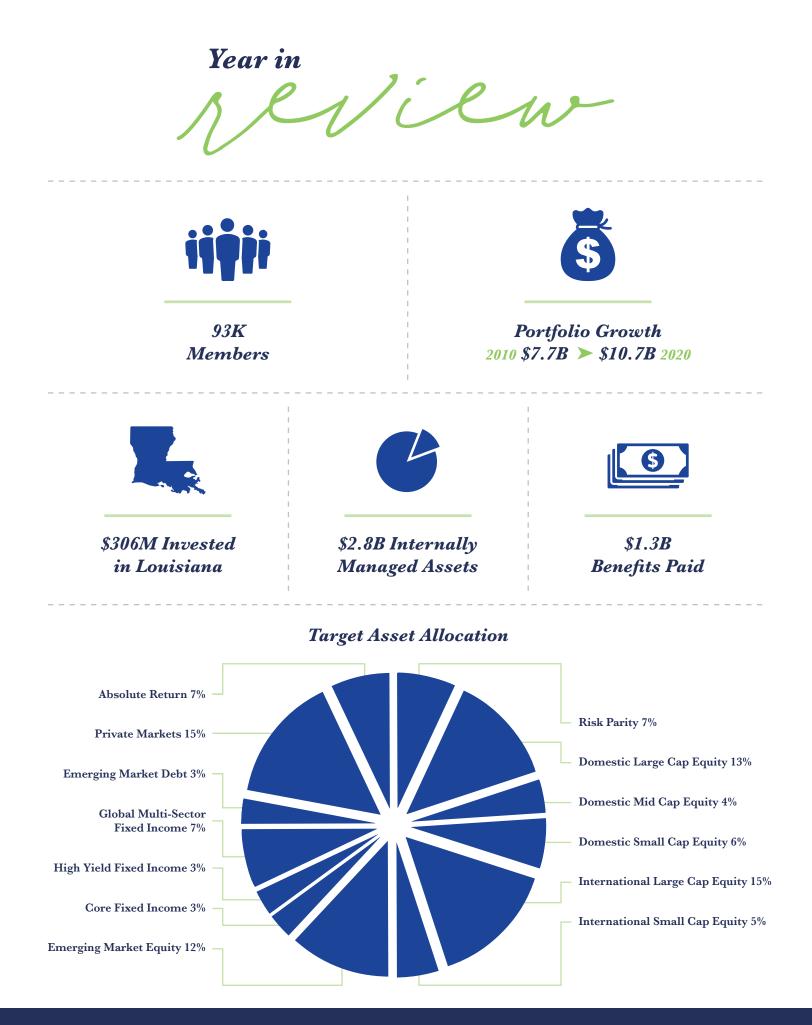
Prior to the COVID-19 pandemic, in the United States and most other developed parts of the world, people lived a dramatically different lifestyle. Stopping for drinks after work, having dinner out, or picking up a few groceries at the supermarket on the way home are largely things of the past. For starters, many now work remotely from home while supervising their children's schoolwork; with a well-stocked refrigerator, those groceries delivered right to their door.

In business, world interconnectivity that previously allowed supply chains to obtain raw materials from virtually anywhere around the world became an issue. Companies had to deal with disruptions such as manufacturing halts across the globe, and delivery delays were realized. As a result, many companies were left scrambling to change where and how they obtain the materials and resources needed to operate.

In investments, swings of this magnitude had not been seen since the Great Depression. However, the rapid response and the amount of fiscal and monetary support provided by governments around the world allowed for recovery to begin within a relatively short timeframe. Changes from an investment perspective must include an analysis of which parts of the world are expected to continue recovering more quickly and which types of investments are most appropriate given all of the changing circumstances. As always, the foundation of a successful portfolio is its asset allocation, deciding where and how much to invest.

The purpose of change should be betterment. Opportunity can be found in disruption, if sought in the right place. Now, more than ever, LASERS is committed to seeking opportunity for the betterment of the plan.





TO OUR MEMBERS

Dear Members,

The Louisiana State Employees' Retirement System (LASERS) earned a -3.8% gross-of-fees, time-weighted return on investments for the fiscal year ended June 30, 2020. As a result, the total gross-of-fee investment value of the fund as of June 30, 2020 exceeded \$10.6 billion. Longer-term annualized rates of return are 4.4% for the five-year period, 6.0% for the seven-year period, and 7.7% for the ten-year period.

While the fiscal year started on a relatively positive note, it was quickly overtaken by the COVID-19 pandemic that reached all corners of the world. After reaching an all-time high on February 19, the S&P 500 Index fell into bear market territory after just twenty-two trading days. The resulting S&P 500 Index return for 1Q 2020 was -19.6%, amongst double-digit negative returns from all other global stock indexes. Meanwhile, prices rose for government bonds as investors moved toward perceived safety. The U.S. Federal Reserve, along with worldwide central banks, took swift and unprecedented action in providing monetary and fiscal stimulus to ensure that economics continued to function. Markets posted strong returns in 2Q 2020 and modest upticks were being seen in economic activity, although it remained well below pre-pandemic levels. Economic uncertainty and heightened volatility across capital markets lingered.

For the fiscal year, the Plan's allocation to Investment Grade Fixed Income posted an 8.9% return, far exceeding any other asset class, and outperforming its benchmark by 20 basis points. Also in the Fixed Income space, the Emerging Market Debt portfolio beat its benchmark by 1.4%. A consistent source of positive returns, the Private Markets portfolio posted 1.4%. Other asset classes struggled. For a number of years, the Plan has benefited from its asset allocation positioning of overweighting both developed international and emerging market equities while underweighting domestic equities relative to its peers. That positioning resulted in LASERS ranking as one of the top ten pension plans in the nation for all years from 2011 through 2015. More recently, contrary to expectations, that positioning began to falter. In response, prior to the COVID-19 pandemic, Investment staff, in conjunction with LASERS Investment consultant, NEPC, began an extensive asset allocation study with the goal of maintaining an appropriate risk-return profile. Following the dynamically changed investment market at fiscal year-end, this study was re-underwritten to capture new expectations and growth projections. Still underway at the writing of this letter, the new allocation will seek to maintain appropriate diversification while balancing risk and return. It will continue to prioritize opportunistic types of investments, both domestically and internationally.

As always, we continue to work diligently to meet long-term goals and objectives and safeguard your retirement.

Sincerely,

Robert W. Beale, CFA, CAIA Chief Investment Officer

Board of

A 13-member Board of Trustees oversees LASERS operations. Six seats are filled by active members, three seats are held by retirees, and four positions are ex officio. Trustees serve four-year terms and are limited to three consecutive terms.

The Board of Trustees is responsible for the total investment program. As such, they approve the investment policy and provide overall direction to the administrative staff in the execution of the investment policy.

EX OFFICIO MEMBERS



Commissioner Jay Dardenne



Representative Lance Harris



Senator Edward Price



State Treasurer John Schroder



Thomas Bickham Board Chair Undersecretary, Department of Public Safety and Corrections



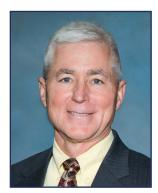
Beverly Hodges Board Vice Chair Retired from the Department of Natural Resources



Charles Castille Retired from the Department of Health and Hospitals



Virginia Burton Retired from the Department of Revenue



Judge William Kleinpeter City Court of Port Allen



Lori Pierce Retired from the Department of Treasury



Barbara McManus Retired from the Department of Social Services



Janice Lancing Chief Financial Officer, Coastal Protection and Restoration Authority



Shannon Templet Director of Human Resources, House of Representatives

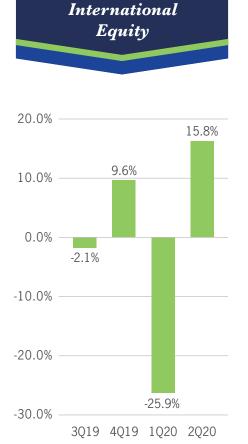
tal fund review

2019 - 2020 FYTD Returns by Month

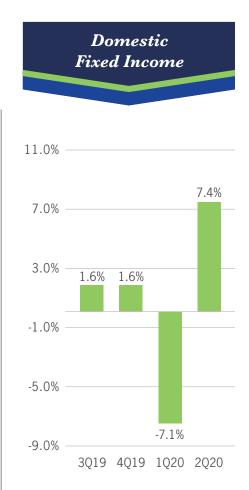




Fiscal Year Return	-2.9%
AUM	\$2,190.9m
Target Allocation	23.0%
Actual Allocation	20.6%
Active Management	22.4%
Passive Management	77.6%



Fiscal Year Return	-8.0%
AUM	\$2,888.9m
Target Allocation	32.0%
Actual Allocation	27.1%
Active Management	62.3%
Passive Management	37.7%



Fiscal Year Return	2.9%
AUM	\$584.8m
Target Allocation	6.0%
Actual Allocation	5.5%
Active Management	100%
Passive Management	0%





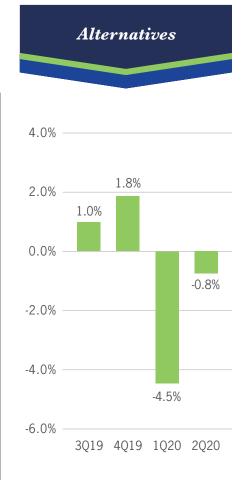


Fiscal Year Return	-1.4%
AUM	\$367.0m
Target Allocation	3.0%
Actual Allocation	3.4%
Traditional	54.4%
Opportunistic	45.6%

Global Multi-Sector Fixed Income



Fiscal Year Return	-0.1%
AUM	\$1,108.5m
Target Allocation	7.0%
Actual Allocation	10.4%
Traditional	42.2%
Opportunistic	57.8%

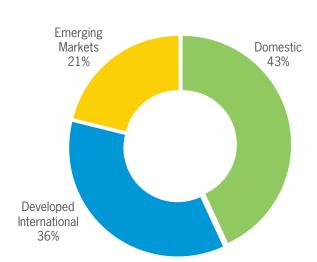


Fiscal Year Return	-2.6%
AUM	\$3,028.0m
Target Allocation	29.0%
Actual Allocation	28.4%
Private Markets	63.3%
Other	36.7%

blic equity

Public equity is an asset class where individuals and/or organizations can buy ownership in shares or stock of a company through a public market such as the New York Stock Exchange. The benefits of investing in public equity include liquidity, credibility, and financial flexibility. LASERS invests globally in both Domestic and International equity, including Emerging Markets equity.

Public Equity: Fiscal Year Summary

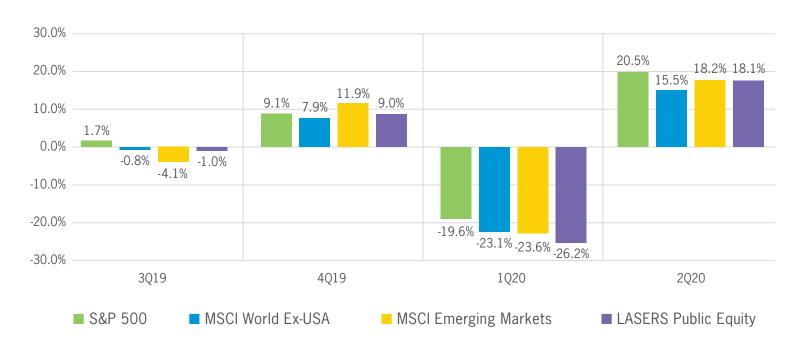


ALLOCATION

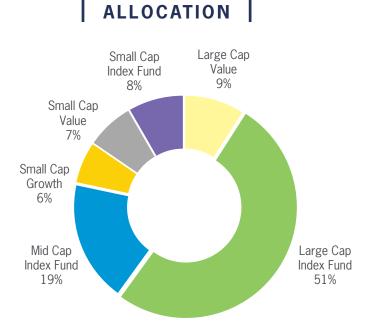
ASSETS & RETURNS

	Market Value (Millions)	Market Return	LASERS Return
Domestic	\$2,190.9	7.5%	-2.9%
Developed International	\$1,815.6	-5.0%	-5.6%
Emerging Markets	\$1,073.3	-3.0%	-11.7%
Total Public Equity	\$5,079.8		-6.0%

QUARTERLY RETURNS



Domestic Equity: Fiscal Year Summary



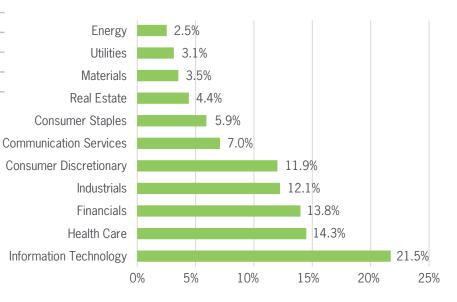
ASSETS & RETURNS

	Market Value (Millions)	Market Return	LASERS Return
Large Cap	\$1,314.3	7.5%	4.7%
Mid Cap	\$401.4	-6.7%	-6.8%
Small Cap	\$475.2	-11.3%	-16.2%
Domestic Equity	\$2,190.9		-2.9%

MANAGER & ASSET SUMMARY

Manager	Market Value (Millions)	Benchmark
AJO	\$198.4	S&P 500 Value
Large Cap Value	\$198.4	
Rice Hall James	\$136.7	S&P 600 Growth
Small Cap Grow	th \$136.7	
LSV Asset Managemer	nt \$156.2	S&P 600 Value
Small Cap Value	\$156.2	
LASERS S&P 400 Inde	ex \$401.4	S&P 400
LASERS S&P 500 Inde	ex \$1,115.9	S&P 500
LASERS S&P 600 Inde	x \$182.3	S&P 600
Index Funds	\$1,699.6	
Domestic Equity	\$2,190.9	

SECTOR DIVERSIFICATION

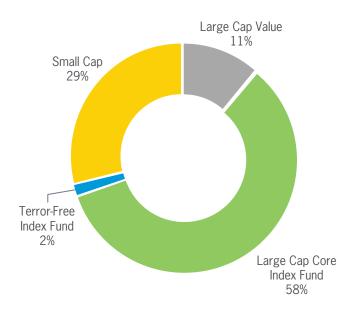


TOP HOLDINGS

Security Name	Market Value (Millions)
Microsoft Corp	\$67.9
Apple Inc	\$63.9
Amazon.com Inc	\$52.2
Facebook Inc	\$23.5
Alphabet Inc – Class A	\$20.0
Alphabet Inc – Class C	\$17.8
Johnson & Johnson	\$17.7
Verizon Communications Inc	\$16.5
Berkshire-Hathaway Inc	\$16.1
Intel Corp	\$15.3
Top Ten	\$311.0

International Developed Equity: Fiscal Year Summary

ALLOCATION



ASSETS & RETURNS

	Market Value (Millions)	Market Return	LASERS Return
Large Cap Value	\$202.8	-14.6%	-10.6%
Large Cap Core	\$1,088.9	-5.0%	-6.1%
Small Cap	\$523.9	-2.9%	-4.1%
Int'l Developed Equity	\$1,815.6		-5.6%

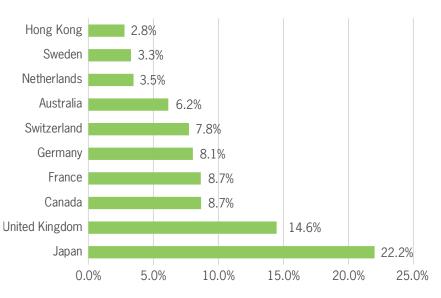
MANAGER & ASSET SUMMARY

Manager	Market Value (Millions)	Benchmark
Mondrian Inv Ptnrs	\$202.8	MSCI World Ex-USA Value
Large Cap Value	e \$202.8	
MSCI Index Fund Terror-Free Fund	\$1,061.2 \$27.7	MSCI World Ex-USA
Large Cap Core	\$1,088.9	
Mondrian Inv Ptnrs Goldman Sachs	\$206.1 \$317.8	MSCI World Ex-USA Sm Cap
Small Cap	\$523.9	
Int'l Developed Equi	ty \$1,815.6	

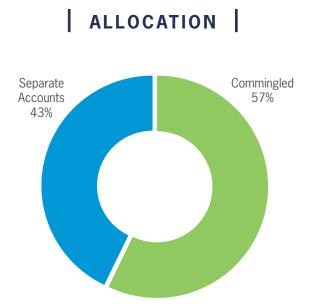
TOP HOLDINGS

Security Name	Market Value (Millions)
Roche Holdings	\$23.3
Novartis	\$21.4
Nestle	\$20.5
Sanofi	\$17.7
Enel	\$14.9
Glaxosmithkline	\$14.4
Allianz	\$14.0
SAP	\$13.0
Takeda Pharm Co Ltd	\$12.3
Sony Corp	\$12.1
Top Ten	\$163.5

TOP COUNTRIES



Emerging Markets Equity: Fiscal Year Summary



ASSETS & RETURNS

	Market Value (Millions)		LASERS Return
Commingled Accounts	\$613.5		
Separate Account	\$459.8		
Emerging Mkts Equity	\$1,073.3	-3.0%	-11.7%

MANAGER & ASSET SUMMARY

Manager	Market Value (Millions)	Benchmark
City of London Westwood Global LSV Asset Management	\$364.7 \$248.8 \$459.8	MSCI Emerging Markets Index
Emerging Markets Equ	uity \$1,073.3	

SAMPLE HOLDINGS

Security Name	Market Value (Millions)
Samsung Electronics Co Ltd	\$25.0
China Mobile Ltd	\$8.7
Lukoil	\$8.0
China Construction Bank Cor	p \$6.8
Hon Hai Precision Industry Co	o \$6.1
Baidu Inc	\$5.7
PICC Property & Casualty Co	\$5.5
China Citic Bank Corp Ltd	\$5.4
Grupo Mexico	\$4.7
Vale	\$4.4

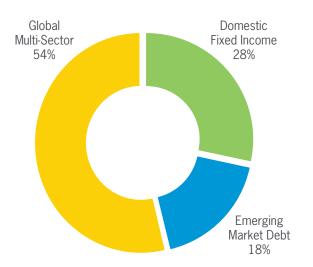


fixed income

Fixed income securities are debt instruments issued by a government, corporation, or other entity to finance and expand their operations. The benefits of investing in fixed income include stability of principal, a steady income stream, and a higher claim to assets. LASERS invests globally in both Domestic and International Fixed income, including Emerging Market Debt and Global Multi-Sector assets.

Fixed Income: Fiscal Year Summary

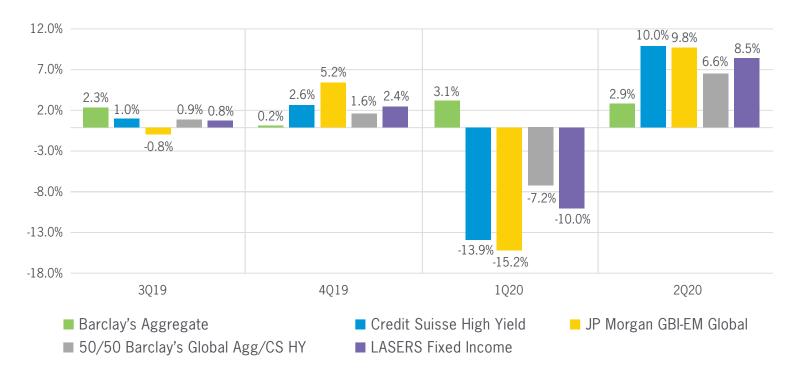
ALLOCATION



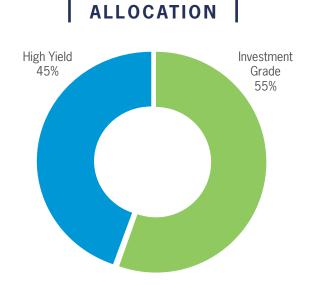
ASSETS & RETURNS

	Market Value (Millions)	Market Return	LASERS Return
Domestic	\$584.8	8.7%	2.9%
Emerging Market Debt	\$367.0	-2.8%	-1.4%
Global Multi-Sector	\$1,108.5	1.4%	-0.1%
Total Fixed Income	\$2,060.3		0.7%

QUARTERLY RETURNS



Domestic Fixed Income: Fiscal Year Summary



ASSETS & RETURNS

	Market Value (Millions)		LASERS Return
Investment Grade	\$324.1	8.7%	8.9%
High Yield	\$260.7	-1.8%	-2.9%
Domestic Fixed Incom	e \$584.8		2.9%

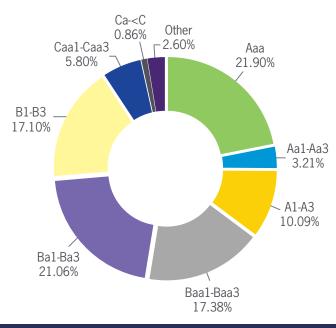
TOP HOLDINGS

Security Name	Market Value (Millions)
Commit FNMA SFmtg, 2.5% 9/1/2050	\$7.1
US Treasury Bills, 0% 7/28/2020	\$5.0
FedEx Corp, 4.9% 1/15/2034	\$4.8
Valero Energy Corp, 7.5% 4/15/2032	\$4.8
US Treasury Note, 0.625% 5/15/2030	\$4.8
Georgia Power Co, 4.3% 3/15/2042	\$4.6
Amazon.com Inc, 3.8% 12/5/2024	\$4.5
JP Morgan Chase & Co, 3.9% 7/15/202	25 \$4.5
US Treasury Bond, 2.0% 2/15/2050	\$4.5
CSX Corp, 3.25% 6/1/2027	\$4.5
Top Ten	\$49.1

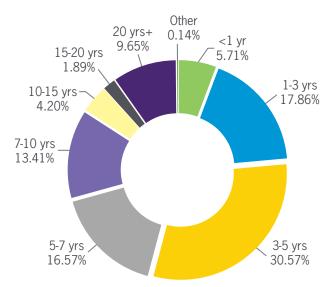
MANAGER & ASSET SUMMARY

Ma Manager	rket Value (Millions)	Benchmark
Loomis Sayles	\$187.8	BB BC
Orleans Capital	\$136.3	US Aggregate
Investment Grade	\$324.1	
JP Morgan	\$133.6	Credit Suisse
Nomura	\$127.1	High Yield
High Yield	\$260.7	
Domestic Fixed Income	\$584.8	





MATURITY ALLOCATION



Emerging Market Debt: Fiscal Year Summary

MANAGER & ASSET SUMMARY

Ma Manager	rket Value (Millions)	Benchmark
Stone Harbor	\$199.7	JP Morgan GBI-EM
Gramercy	\$167.2	GlobalDiversified
Emerging Market Debt	\$367.0	

RETURNS

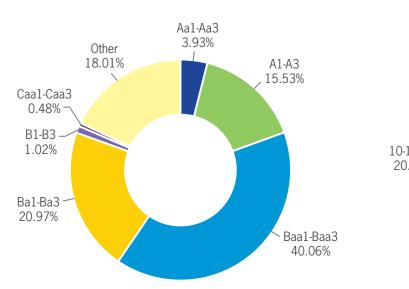
	Market Return	LASERS Return
Emerging Market Debt	-2.8%	-1.4%

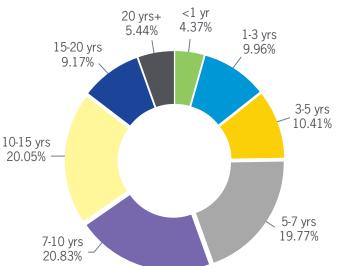
SAMPLE HOLDINGS

Security Name	Market Value (Millions)
Mexican Bonos, 7.5% 6/3/2027	\$6.5
Republic of S Africa Govt, 6.25% 3/31/2036	\$6.4
Indonesia Treasury Bond, 8.375% 3/15/2024	\$6.3
Republic of S Africa Govt, 10.5% 12/21/2026	\$5.7
Thailand Govt Bond, 3.775% 6/25/2032	\$5.3
Colombian TES, 7.5% 8/26/2026	\$5.3
Brazil Notos do Tesouro Nacion, 10.0% 1/1/20)23 \$4.4
Russian Federal Bond – OFZ, 8.5% 9/17/2031	\$4.1
Peru Govt Bond, 6.15% 8/12/2032	\$4.1
JP Morgan Chase Bank NA 144A, 3.13% 11/23	3/2029 \$4.0

QUALITY ALLOCATION

MATURITY ALLOCATION





Quality and Maturity Allocation charts reflect only traditional manager(s).

MANAGER & ASSET SUMMARY

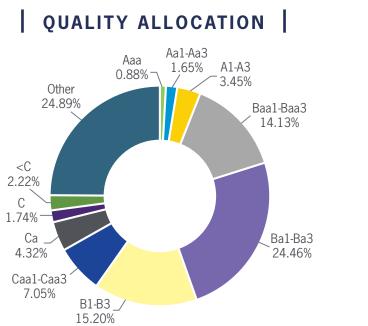
Manager	Market Value (Millions)	Benchmark
DoubleLine GoldenTree PIMCO Blackstone Zais Group	\$218.9 \$249.4 \$277.6 \$274.6 \$88.0	50/50 Bloomberg Barclay's Capital Global Agg/Credit Suisse High Yield
Global Multi-Secto	or \$1,108.5	

RETURNS

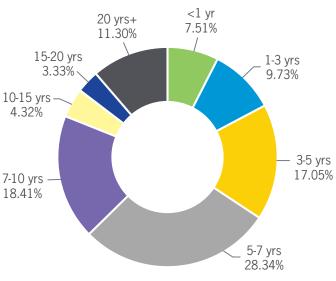
	Market Value (Millions)	Market Return	LASERS Return
Global Multi-Sector	\$1,108.5	1.4%	-0.1%

SAMPLE HOLDINGS

Security Name	(Millions)
Rali Series 2007 – Q05 TRU Q05 A, Var Rt 8/25/2047	\$4.8
GSMSC Resecuritizat 3R2B 144A, Var Rt 9/26/2036	\$3.9
CIM Trust 2017 – 3RR B2 1444A, Var Rt 1/27/2057	\$3.4
AC Products 2/20 COV-Lite TLB, 0% 2/14/2025	\$3.3
PNMAC FMSR Issuer T FT1 A 144 A, Var Rt 4/25/2023	3 \$3.2
Progress Residential SFR3 E 144A, 3.369% 9/17/203	6 \$3.1
FMC GMSR Issuer TRU GT1 A 144A, Var Rt 5/25/2024	\$3.0
Puerto Rico Sales Tax Filing COR, 0% 7/1/2046	\$2.9
Fair Square Financial, 0% 11/19/2020	\$2.3
Alternative Loan TRU 45T1 1A10, 6.0% 2/25/2037	\$2.1



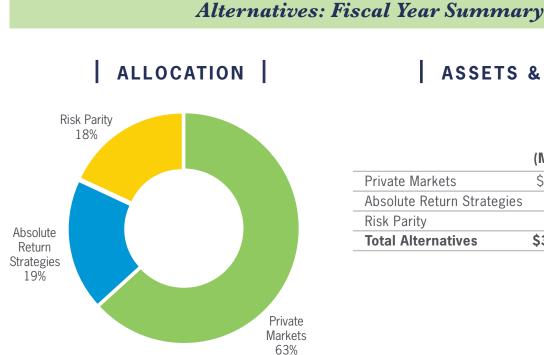
MATURITY ALLOCATION



Quality and Maturity Allocation charts reflect only traditional manager(s).

snatives

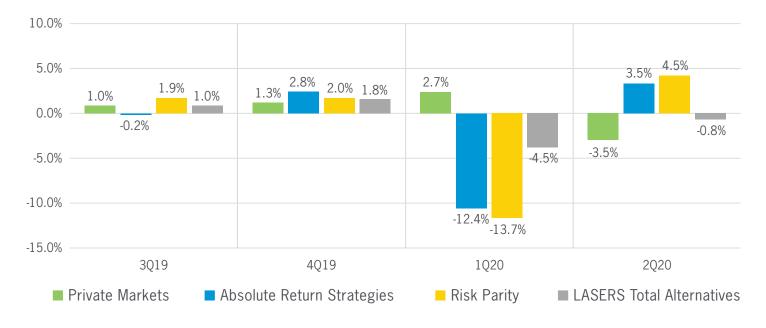
Alternative Investments generally refer to institutional blind pool limited partnerships which make private debt and equity investments in privately held companies, as well as hedge funds, and other publicly traded derivativesbased strategies. The benefits of investing in alternatives include increased diversification, inflation hedging, and new exposures/opportunities. LASERS invests in Private Markets, Absolute Return Strategies, and Risk Parity.



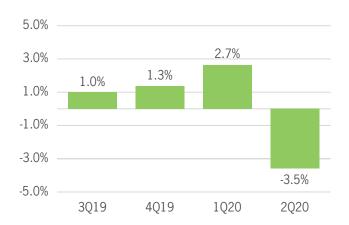
ASSETS & RETURNS

	Market Value (Millions)	Market Return	LASERS Return
Private Markets	\$1,915.4	n/a	1.4%
Absolute Return Strategies	\$565.6	0.7%	-7.0%
Risk Parity	\$547.0	8.0%	-6.3%
Total Alternatives	\$3,028.0		-2.6%

QUARTERLY RETURNS



Private Markets: Fiscal Year Summary



QUARTERLY RETURNS

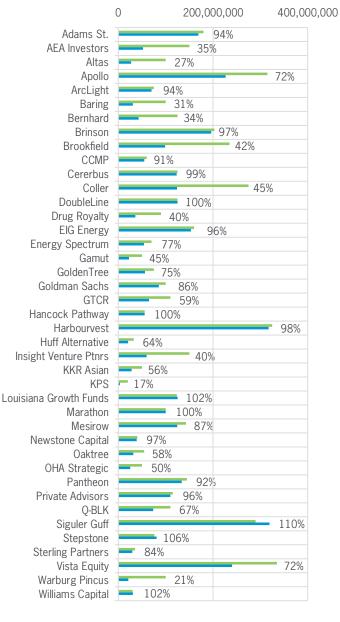
MANAGER & ASSET SUMMARY

Manager	Mkt Value (Millions)		lkt Value Millions)
Adams St	\$58.0	Hancock Pathway	\$0.4
AEA Investors	66.8	Harbourvest	2.0
Atlas Partners	22.3	Huff Alternative Fund	5.0
Apollo	93.3	Insight Venture Partner	rs 65.6
ArcLight Energy	47.0	KKR	31.9
Baring Private Equity	/ 25.8	KPS Special Situations	3.4
Bernhard Capital	37.8	Louisiana Growth Fund	s 3.2
Brinson	3.1	Mesirow	67.1
Brookfield Capital	101.3	Newstone Capital	4.7
CCMP Capital	51.7	Oaktree	27.7
Cererbus	126.7	OHA Strategic	24.6
Coller Int'l Partners	98.6	Pantheon Ventures	29.2
DoubleLine	131.0	Private Advisors	72.0
Drug Royalty	4.9	Quellos-BlackRock	33.2
EIG Energy	55.5	Siguler Guff	129.0
Energy Spectrum	8.6	Stepstone	13.7
Gamut	23.0	Sterling Partners	12.8
GoldenTree	57.2	Vista Equity	252.7
Goldman Sachs	22.4	Warburg Pincus	21.2
GTCR	80.2	Williams Capital	0.5
		Total Private Equity	\$1,915.4

PROGRAM SNAPSHOT

FY Return	1.4%
# of Managers	41
# of Funds	80
Total Commitments	\$5,102,524,680
Total Contributions	\$3,781,306,075
Total Drawdown	74%
Total Distributions	\$3,832,936,607

COMMITMENTS & CONTRIBUTIONS

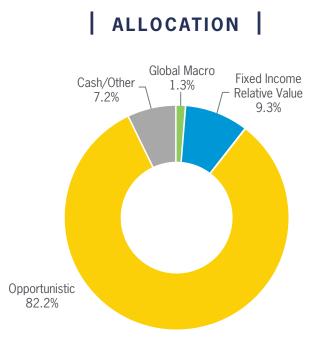


Commitments

Contributions

% Capital Drawn

Absolute Return Strategies: Fiscal Year Summary



RETURNS

Absolute Return Strategies -7.0%

PORTFOLIO CHARACTERISTICS

	HFRI FoF Index	LASERS
Analysis Inception	July-08	July-08
Cumulative Return	21.05%	24.93%
Annualized Return	1.60%	1.87%
Information Ratio	0.29	0.34
% Up Months	63.89%	66.67%
% Down Months	36.11%	33.33%
Correlation to SP 500	0.79	0.61

MANAGER & ASSET SUMMARY

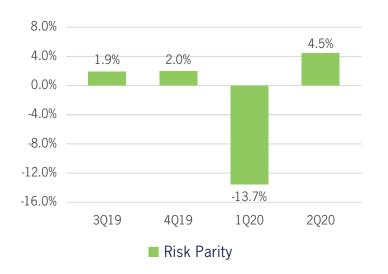
Manager	Market Value (Millions)
Bridgewater*	\$7.1
Entrust Capital	\$291.9
PAAMCO*	\$1.2
Prisma Capital	\$263.1
Stark Investments*	\$2.3
Total Absolute Return	\$565.6

*In redemption status

QUARTERLY RETURNS



HFRI Fund of Funds Composite Index



Risk Parity: Fiscal Year Summary

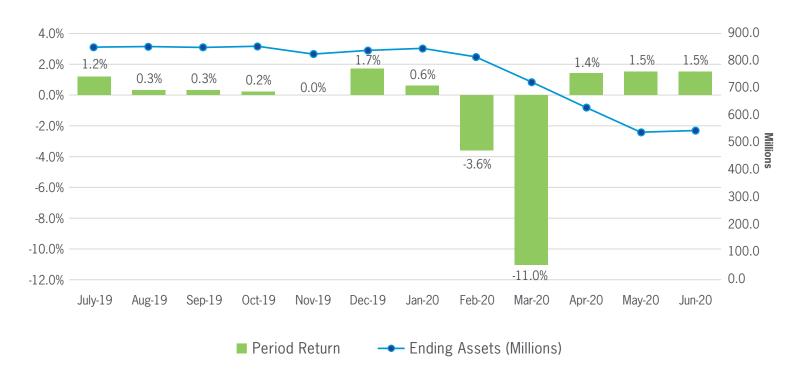
RETURNS

	LASERS Return
Risk Parity	-6.3%

MANAGER & ASSET SUMMARY

IV	larket Value	
Manager	(Millions)	Benchmark
Bridgewater	\$297.2	8% Nominal
AQR Capital	\$249.8	070 NUIIIIIdi
Risk Parity	\$547.0	

MONTHLY RETURNS & ASSETS



QUARTERLY RETURNS

ading

Efficient trading, or the purchase or sale of securities by LASERS external managers and internal staff, is a pivotal component of portfolio success.

LASERS is committed to monitoring and analyzing execution costs, with the ultimate goal of ensuring best execution. We conduct a thorough annual review of total execution costs that our managers incur, which includes commissions, market impact, and timing costs. Trading activity and costs are also monitored on an ongoing basis; LASERS staff compiles and analyzes trade data internally, in addition to using the services of an outside consultant, Zeno Consulting Group.

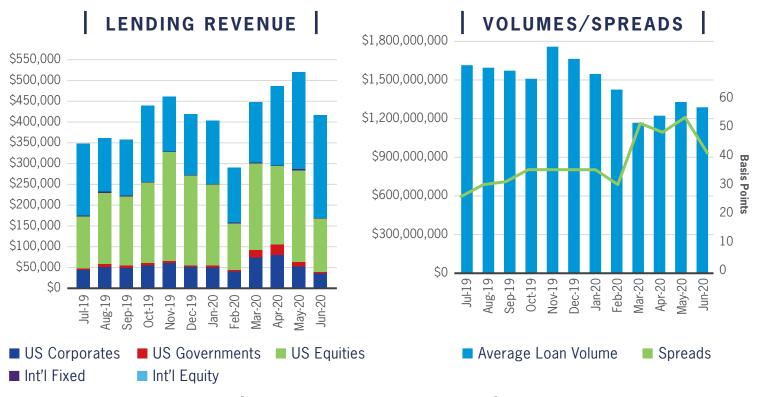
Brokerage Firm	Commission	Brokerage Firm	Commission
Goldman Sachs	\$356,489	National Financial Services	\$23,804
UBS	\$72,359	Instinet	\$22,693
Merrill Lynch	\$70,336	Stifel Nicolaus	\$21,770
JP Morgan	\$53,104	Morgan Stanley	\$21,412
RBC	\$48,933	Credit Suisse	\$20,866
Citigroup	\$45,473	JonesTrading	\$20,819
Robert Baird	\$39,951	Investment Technology Group	\$15,797
Needham and Co	\$37,751	Wolfe Trahan	\$12,152
Sanford Bernstein	\$37,285	D. A. Davidson	\$11,526
Barclays	\$31,405	Cowen	\$10,836
Jefferies	\$27,382	SG Americas Securities	\$10,331
Raymond James	\$25,396	Other Commissions Less than \$10,000	\$154,326
William Blair	\$24,328	Total \$1	.,158,110.76

COMMISSION SUMMARY

securities lendi

Securities Lending is a practice whereby owners of securities either directly or indirectly lend their securities to primary brokerage firms for a fee, and against which either cash, securities, or a letter of credit is pledged to protect the lender. Securities are borrowed to cover fails of deliveries, cover short sales, provide proper denominations, and enable brokerage firms to engage in arbitrage trading activities.

During the fiscal year, LASERS generated \$4,940,499 in revenue through its securities lending program. The lending agreement between LASERS and custodian bank, BNY Mellon, incorporates an 80/20 split on the first \$2.5 million, which LASERS reached in January of 2020; 85/15 revenue split in excess of \$2.5 million up to \$8.0 million; and 90/10 revenue split in excess of \$8.0 million.



LENDING STATISTICS

Program	Average Lendable Assets (Millions)	Return from Lending Income (Basis Points)	Lending Income (Thousands)
Treasuries	\$79	15	\$96
Agencies	\$5	4	\$2
MBS	\$98	0	0
US Corporates	\$742	10	\$627
US Equities	\$2,423	11	\$2,190
Non-US Equities	\$2,559	9	\$2,001
Non-US Fixed Income	\$141	2	\$24
Total	\$6,047	10	\$4,940

governan te porat ce

Corporate governance is the system of rules, practices, and processes by which a company is directed and controlled. Corporate governance essentially involves balancing the interests of a company's many stakeholders.

LASERS Board of Trustees exercises its right to vote as a shareholder in companies held within investment portfolios as an important method to participate in the corporate governance process. As a fiduciary, LASERS is compelled to exercise this right in the best interest of the System's participants and beneficiaries. This is accomplished by voting for shareholders' resolutions that are likely to enhance shareholder value and by opposing resolutions that are likely to dilute or diminish the value.

Category	Proposals	For	Against	Other
Management Proposals				
Routine/Business	6,009	4,786	1,223	0
Director Related	20,085	12,144	7,941	0
Capitalization	2,295	1,886	409	0
Reorganizations/Mergers	421	377	44	0
Non-Salary Compensation	3,727	2,752	926	49*
Anti-takeover Related	307	287	20	0
Other/Miscellaneous	83	54	29	0
Shareholder Proposals				
Routine/Business	121	56	65	0
Director Related	402	221	181	0
Corporate Governance	46	24	22	0
Compensation	58	40	18	0
Health/Environmental	96	55	41	0
Social/Human Rights	53	41	12	0
Other/Miscellaneous	104	73	31	0
Total	33,807	22,796	10,962	49

PROXY ACTIVITY

*Frequency of Say on Pay – 49 Votes

jisk manageme

Risk Management is the process of identifying, monitoring, and controlling the level of risk taken by each of LASERS managers.

To assess risk, investment division staff assembles the holdings of all managed portfolios to create an aggregate view of LASERS assets and utilizes multiple software systems. Supported by powerful multi-factor models and extensive databases, these software systems assist in quantifying various metrics at the asset level up to the aggregated portfolio level. These tools allow the investment staff to decompose the risk by source and monitor the overall risk in the portfolio based on the manager or asset class that is contributing that risk. Decomposing risks at an aggregated level and at the individual manager level allows the investment staff to better understand and manage the sources of risk in LASERS portfolio.

	Assets	Market Value	Weight (%)	Total Risk (%)	Modified Duration	S&P Credit Rating
Fixed Income Managers	2,891	\$1,252,825,860	100%			
Loomis Inv. Grade	462	\$187,813,068	14.99%	16.48%	7.07	А
Orleans Inv. Grade	125	\$136,328,554	10.88%	8.51%	6.34	А
JPMorgan High Yield	561	\$133,563,623	10.66%	13.72%	4.20	B+
Nomura High Yield	959	\$127,104,139	10.15%	16.80%	4.56	B+
Stone Harbor	109	\$199,739,761	15.94%	23.25%	6.02	BBB
DoubleLine	587	\$218,916,657	17.47%	7.56%	2.97	BB-
GoldenTree	88	\$249,360,058	19.90%	16.68%	3.87	B+
	Assets	Market Value	Weight (%)	Total Risk (%)	Tracking Error (%)	Value-At- Risk (%)
Equity Managers	3,759	\$5,041,632,761	100%			
AJO	111	\$197,874,062	3.92%	33.87%	2.83%	57.07%
LASERS S&P 500	508	\$1,115,021,010	22.12%	32.00%	0.04%	56.06%
LASERS S&P 400	401	\$400,057,532	7.94%	38.38%	0.17%	60.39%
Rice Hall James	54	\$136,623,860	2.71%	35.86%	6.61%	55.63%
LSV Small Cap	228	\$156,106,760	3.10%	45.82%	4.20%	65.68%
LASERS S&P 600	617	\$183,057,545	3.63%	40.68%	0.25%	62.08%
Mondrian Large Cap	46	\$201,311,038	3.99%	28.86%	5.25%	37.25%
LASERS MSCI World Ex-US	709	\$1,046,352,876	20.75%	29.51%	1.93%	38.34%
LASERS MSCI Terror Free	301	\$27,398,916	0.54%	26.42%	1.91%	35.30%
Mondrian Small Cap	98	\$205,176,695	4.07%	28.04%	5.14%	35.71%
Goldman Sachs	364	\$340,433,115	6.75%	26.71%	4.66%	33.18%
City of London	60	\$358,317,762	7.11%	24.89%	6.10%	35.22%
LSV Custom Emerging Mkts	230	\$446,932,374	8.86%	27.51%	7.61%	37.85%
Westwood Global	32	\$226,969,215	4.50%	27.01%	8.65%	40.80%

RISK MANAGEMENT ASSESSMENT

This page left blank intentionally.

MANAGEMENT TEAM

Cynthia Rougeou - Executive Director

Bernard "Trey" Boudreaux, III – Chief of Staff Robert Beale, CFA, CAIA – Chief Investment Officer Tina Vicari Grant – Executive Counsel

INVESTMENT TEAM

Robert Beale, CFA, CAIA - Chief Investment Officer

Darren Fournerat, CFA, CAIA – Assistant Chief Investment Officer Laney Sanders, CFA, CAIA, CTP – Assistant Chief Investment Officer Celeste Funderburk, CCM – Director of Public Markets Jacques Brousseau, CFA, CAIA – Director of Private Markets Alisa Lacombe – Manager of Operations Reeves Pearce, CFA, CAIA – Director of Alternative Assets Jennifer Adams – Administrative Assistant

INVESTMENT CONSULTANT

Rhett Humphreys, CFA - Lead Consultant, NEPC LLC

CUSTODIAN BANK

BNY Mellon

This public document was published at a total cost of \$198.00. Thirty-five copies of this public document were published in this first printing at a cost of \$198.00. The total cost of all printings of this document, including reprints is \$198.00. This document was published by the Louisiana State Employees' Retirement System, P.O. Box 44213, Baton Rouge, LA 70809, to disseminate plan benefit information to its members and to Louisiana policymakers under authority of La. R.S. 11:511. This material was printed in accordance with the standards for printing by state agencies established pursuant to La. R.S. 43:31.



Contact Information

Location: 8401 United Plaza Blvd. • Baton Rouge, LA 70809 Mail: P.O. Box 44213 • Baton Rouge, LA 70804-4213 Phone: (toll-free) 800.256.3000 • (local) 225.922.0600 Web: www.lasersonline.org