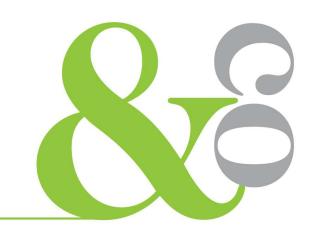
Investment Performance Review Period Ending December 31, 2021

Southfield Fire & Police Retirement System



AndCo Consulting | (844) 44-ANDCO | AndCoConsulting.com

On behalf of everyone at AndCo, we want to Thank You for the opportunity to serve and the trust you place in us! 2021 marked another unique year as society continued to deal with the effects of the global pandemic. While this environment caused all organizations to reassess their business models and service approach, AndCo has remained steadfast in our belief and conviction that the best way to service our valued clients is within a model that is independent, singularly focused, customized, and passionately delivered. These four AndCo principles drive our service approach and desire to exceed your expectations. We take our role as your consultant and trusted advisor seriously and will continue working hard to maintain your confidence.

Looking back at 2021, we would like to provide a brief update on the firm. We advise on approximately \$123 billion in client assets, as of June 30, 2021. 2021 also marked the 21st straight year of revenue growth for the firm. We continue to reinvest 100% of our net profits back into the organization so that we can continue to evolve and adapt within a market environment that is constantly changing and challenging. Put simply, stasis is not an effective strategy, and we are convicted in our belief that a firm not focused on moving forward in our industry is moving backward.

To execute on our commitment, we continued to make personnel and technology investments within the firm. Our personnel investments focused on further enhancing departmental service levels and narrowing perceived gaps. We continued to invest in our proprietary software system to more effectively and efficiently compile and share information across departments and ultimately better serve our clients. We also continued to build out our internal site (the intranet) so colleagues could stay connected with the firm and gain a deeper understanding of standard operating procedures and collectively service our clients the AndCo way. Our intranet also helped strengthen our internal brand and culture by pushing out a variety of daily firm updates, videos, and interactive posts to increase team member bonds to our values, core philosophies, and ultimately, brought the firm closer together. We believe these connections are increasingly important in the COVID environment when many team members remain wholly or partially remote and we will continue to explore innovative ways to be together in 2022.

As we start 2022, we are 87 team members strong with plans to grow. We are targeting several new positions for the year as we thoughtfully continue to invest in our firm to provide the quality services you expect from AndCo. These talent enhancements cover multiple departments including Research and Client Solutions, which will strengthen our alternative and public market research as well as our client service. We are also looking to add team members to our Consulting, Finance, Marketing, and IT departments.

While adding so many resources to a firm our size is a significant investment, it is one we embrace due to the impact we believe it will have on our ability to continue serving our clients at a high level and push us closer to our vision of being a transformational organization viewed as the leader in our industry.

At the beginning of each year, we discuss the AndCo partnership and, when earned, announce new partners. This year I am thrilled to share two new team members were named partners at AndCo – Brian Green and Kerry Richardville. Brian has been with the firm for over 6 years and is currently a consultant based out of our Detroit, Michigan office. Kerry has been with AndCo for over 5 years and is a consultant based in Orlando. We could not be happier for both Brian and Kerry or more grateful for the contributions they have made to AndCo since joining the firm. Brian and Kerry represent what it means to be an AndCo team member, and we are honored and fortunate to have them serving our clients. With the addition of Brian and Kerry, we have 13 partners representing various departments at AndCo, which provides diverse perspectives and insight. Our growing partnership group continues to strengthen AndCo and reaffirm our belief that 100% employee management is vital to protecting our mission, vision, values, and the long-term success of our organization. We enter 2022 with an unwavering commitment to serve you the best we possibly can.

Coming off a year that provided many of our clients record returns, we recognize results going forward may be more challenging to obtain. Please know we will continue to invest and evolve our firm in aiming to meet these realities. We do not take any client relationship for granted and will continue to work tirelessly to serve, earn your trust, add value, and exceed your expectations. We are honored and humbled you have chosen AndCo as your partner.

In closing, and as we have stated since our rebrand in 2017, our name, AndCo, reminds us of who we work for every day - "Our Client" &Co. You will always be first in our service model. As we continue to discuss strategic decisions and reinvestments regarding our firm, please know that our decisions are filtered through the following question: "How does this keep our clients' interests first?" If it doesn't meet this standard, we don't do it - it's that simple.

Thank you again for your valued partnership and the opportunity to serve you. Happy New Year!

Martin by

Mike Welker, CFA CEO

# **Organizational Chart**

### PARTNERSHIP

Mike Welker, CFA® **Jacob Peacock, CPFA Brian Green Jason Purdy** Bryan Bakardjiev, CFA® Kerry Richardville, CFA® **Dan Johnson** Kim Spurlin, CPA Dan Osika, CFA® **Steve Gordon Donna Sullivan Trov Brown, CFA®** Evan Scussel, CFA®, CAIA®

**Daniel Kwasny, CIPM®** 

**Client Solutions Director** 

**Jack Evatt** 

Consulting Director

Consulting Director

**Jason Purdv** 

**Molly Halcom** 

**Philip Schmitt** 

Marketing Director

**Research Director** 

**Rachel Brignoni, MHR** 

People & Culture Director

I.T. Director

Jacob Peacock, CPFA

### LEADERSHIP & MANAGEMENT

Mike Welker, CFA® CEO

Bryan Bakardjiev, CFA® Evan Scussel, CFA®, CAIA® COO **Research Director** 

**Kim Spurlin, CPA** CFO

**Sara Searle** CCO

**Stacie Runion** CHRO

**Steve Gordon** Partner

**Troy Brown, CFA®** Executive Director

Brooke Wilson, CIPM<sup>®</sup> Client Solutions Director

**Dan Johnson Consulting Director** 

# INVESTMENT POLICY COMMITTEE

Mike Welker, CFA® Bryan Bakardjiev, CFA® **Troy Brown, CFA®** Sara Searle

MPI OYFFS

## CONSULTING

**Annette Bidart** Brad Hess, CFA®, CPFA **Brendon Vavrica, CFP® Brian Green** Chris Kuhn, CFA<sup>®</sup>, CAIA<sup>®</sup> Christiaan Brokaw, CFA® **Dave West, CFA® Doug Anderson Gwelda Swillev** Ian Jones **James Ross** Jeff Kuchta, CFA®, CPFA **Jennifer Brozstek** 

#### CLIENT SOLUTIONS

Donna Sullivan **Albert Sauerland Amy Foster David Gough, CPFA Don Delaney** 

### **OPERATIONS**

FINANCE Kahjeelia Pope **Robert Marquetti** COMPLIANCE Allen Caldwell

Thay Arroyo

H.R. Sara Schmedinghoff

Jennifer Gainfort, CFA®,

John Thinnes, CFA®, CAIA®

**CPFA** 

John Mellinger

Jon Breth, CFP®

Michael Fleiner

**Mike Bostler** 

**James Reno** 

Jeff Pruniski

Joe Carter, CPFA

Mary Nye

Justin Lauver, Esq.

Kevin Vandolder, CFA®

Kerry Richardville, CFA®

Michael Holycross, CIMA®

**Donnell Lehrer, CPFA** 

Grace Niebrzydowski

**Julio Garcia Rengifo Kim Hummel** Meghan Haines Misha Bell **Yoon Lee-Choi** 

Oleg Sydyak, CFA®, FSA,

Paul Murray, CPFA

Tyler Grumbles, CFA®,

Peter Brown

**Tim Walters** 

CIPM<sup>®</sup>, CAIA<sup>®</sup>

**Tim Nash** 

**Tony Kay** 

EA

## RESEARCH

Ben Baldridge, CFA®, CAIA® Private & Hedged Fixed Income

**Chester Wyche** Real Estate & Real Assets

**Dan Lomelino, CFA®** Fixed Income

**David Julier** Real Estate & Real Assets

**Elizabeth Wolfe** Capital Markets & Asset Allocation

Evan Scussel, CFA®, CAIA® Private & Public Equity

Joseph Ivaszuk **Operational Due Diligence** 

Josue Christiansen, CFA®, CIPM® Public Equity

Julie Baker, CFA®, CAIA® Private & Hedged Equity

Justin Ellsesser, CFA®, CAIA® Private Equity

Kevin Laake, CFA®, CAIA® Private Equity

**Michael Kosoff** Hedge Funds

**Philip Schmitt** Fixed Income & Capital Markets

Ryan McCuskey Real Estate & Real Assets

Zac Chichinski, CFA®, CIPM® Public Equity

**OPERATIONS Jerry Camel** 

MARKETING Dan Osika, CFA® John Rodak, CIPM<sup>®</sup> **Kayleigh Greaser Kim Goodearl** Lauren Kaufmann



**Fixed Income** 

U.S. Aggregate

**Global Aggregate** 

Key Rates

Prime

U.S. Corporate Investment Grade

U.S. Corporate High Yield

US Generic Govt 3 Mth

US Generic Govt 2 Yr

US Generic Govt 10 Yr

US Generic Govt 30 Yr

Euribor 3 Month ACT/360

Bankrate 30Y Mortgage Rates Na

ICE LIBOR USD 3M

	Index Returns (%)													
<u>Equities</u>	Month	<u>3 M</u>	YTD	<u>1 Year</u>	<u>3 Yr</u> Ann	<u>5 Yr</u> Ann								
S&P 500 Total Return	4.48	11.03	28.71	28.71	26.07	18.47								
Russell Midcap Index	4.08	6.44	22.58	22.58	23.29	15.10	- L							
Russell 2000 Index	2.23	2.14	14.82	14.82	20.02	12.02	_ N							
Russell 1000 Growth Index	2.11	11.64	27.60	27.60	34.08	25.32	— IV							
Russell 1000 Value Index	6.31	7.77	25.16	25.16	17.64	11.16	_ s							
Russell 3000 Index	3.94	9.28	25.66	25.66	25.79	17.97	- 3							
MSCI EAFE NR	5.12	2.69	11.26	11.26	13.54	9.55								
MSCI EM NR	1.88	(1.31)	(2.54)	(2.54)	10.94	9.87	_							

<u>3 M</u>

0.01

0.23

0.71

(0.67)

12/31/20

0.06

0.12

0.91

1.64

0.24

(0.55)

2.87

3.25

Index Returns (%)

YTD

(1.55)

(1.04)

5.28

(4.71)

Levels (%)

12/31/19

1.54

1.57

1.92

2.39

1.91

(0.38)

3.86

4.75

	itubben n	laides olyie	Returns	
	v	В	G	
	25.1	26.4	27.6	
I	28.3	22.6	12.7	
	28.2	14.8	2.8	
		YTD		

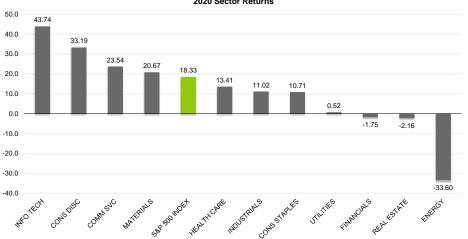
Russell Indices Style Returns

v	В	G
2.8	20.9	38.4
4.9	17.0	35.5
4.6	19.9	34.5
	2020	

	Leveis	
<u>12/31/21</u>	<u>12/31/20</u>	<u>12/31/19</u>
1.14	1.22	1.12
1.35	1.37	1.33
115.08	103.25	108.61
0.91	0.89	0.97
	1.14 1.35 115.08	12/31/21 12/31/20   1.14 1.22   1.35 1.37   115.08 103.25

L Μ s

		Levels	
Commodities	<u>12/31/21</u>	<u>12/31/20</u>	<u>12/31/19</u>
Oil	75.21	47.32	52.65
Gasoline	3.29	2.25	2.59
Natural Gas	3.73	2.94	2.65
Gold	1,828.60	1,914.00	1,187.30
Silver	23.35	26.74	16.50
Copper	446.35	352.05	284.85
Corn	593.25	440.25	417.75
BBG Commodity TR Idx	211.80	166.63	172.00



Source: Bloomberg & Investment Metrics. For informational purposes only and should not be regarded as investment advice. Information is based on sources and data believed to be reliable, but AndCo Consulting cannot guarantee the accuracy, adequacy or completeness of the information. The material provided herein is valid only as of the date of distribution and not as of any future date.

Mod. Adj.

Duration

6.78

8.70

3.83

7.54

12/31/17

1.38

1.88

2.41

2.74

1.69

(0.33)

3.85

4.50

1 Year

(1.55)

(1.04)

5.28

(4.71)

12/31/18

2.35

2.49

2.68

3.01

2.81

(0.31)

4.51

5.50

Yield to

Worst

1.75

2.33

4.21

1.31



Month

(0.26)

(0.08)

1.87

(0.14)

12/31/21

0.03

0.73

1.51

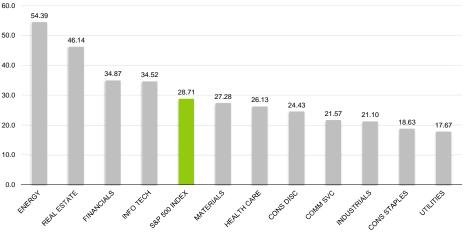
1.90

0.21

(0.57)

3.27

3.25



2020 Sector Returns

The Federal Reserve and COVID-19 continued to dominate the market narrative during the 4<sup>th</sup> quarter. The Federal Reserve revised its policy in an attempt to control inflation, targeting an earlier exit from its bond buying program and additional rate hikes in 2022 and 2023. Omicron, a more contagious but less severe variant of Covid-19, emerged in November and swept across the globe. The equity markets rebounded in September, sold off in November (Omicron influenced), and rebounded again in December (less severe variant). The S&P 500 provided the strongest results during the quarter, returning over 11%. Small caps (Russell 2000) and international developed markets (MSCI EAFE) generated positive but much weaker returns (2.1% and 2.37%, respectively). The emerging markets continued to struggle during the quarter and declined by 1.3%. For the year, the markets followed a similar pattern with the S&P 500 generating the strongest returns and EM suffering minor losses.

Inflation concerns and the Federal Reserve's policy shift impacted returns in the fixed income markets. The front end of the yield curve climbed during the quarter in anticipation of future rate hikes; the 2-year Treasury rose from 28 basis points to 73 basis points during the quarter. The longer end of the curve was more stable with 10-year and 30-year nearly unchanged. The Barclays US Aggregate returned 1 basis point in the 4<sup>th</sup> quarter. Investment grade and high yield bonds fared slightly better. For the year, the Aggregate declined by 1.5% and only high yield posted positive returns (+5.3%) in fixed income.

1. Total Fund return of +4.18% lagged the Policy Index return of +5.00%. The primary drivers of the underperformance were Nantucket and the timing of updated pricing from several real estate managers.

2. For the trailing 1 year, the fund earned +15.03%, beating the policy index return of +14.47% and ranking in the 23<sup>rd</sup> percentile vs. peers.

3. Within the Large Cap allocation, the allocation was impacted by the value bias, as the S&P 500 Value and Dividend Aristocrats trailed more growthoriented indexes.

4. Within the small cap allocation, both Reinhart and Champlain outperformed due to strong stock selection.

5. Within International Equity, 1607 outperformed for the quarter by +1.19%, with performance driven by country selection. JP Morgan's overweight to China and consumer discretionary drove their underperformance. ABS Emerging outperformed due to their underweight to China.

6. Within Fixed Income, Loomis Sayles matched their benchmark for the quarter. Marathon sits at 46% called with an IRR of +41.2%. Bloomfield capital is 100% called and has generated a 9.32% IRR, the majority of that being paid in income back to F&P.

7. Within the hedge fund allocation, Nantucket underperformed for the quarter, driven by underperformance from Long/Short Equity. KStone Partners continues to unwind and return capital back to investors.

8. PRISA I, II and III were all in behind their benchmark in a very strong quarter of performance for real estate.

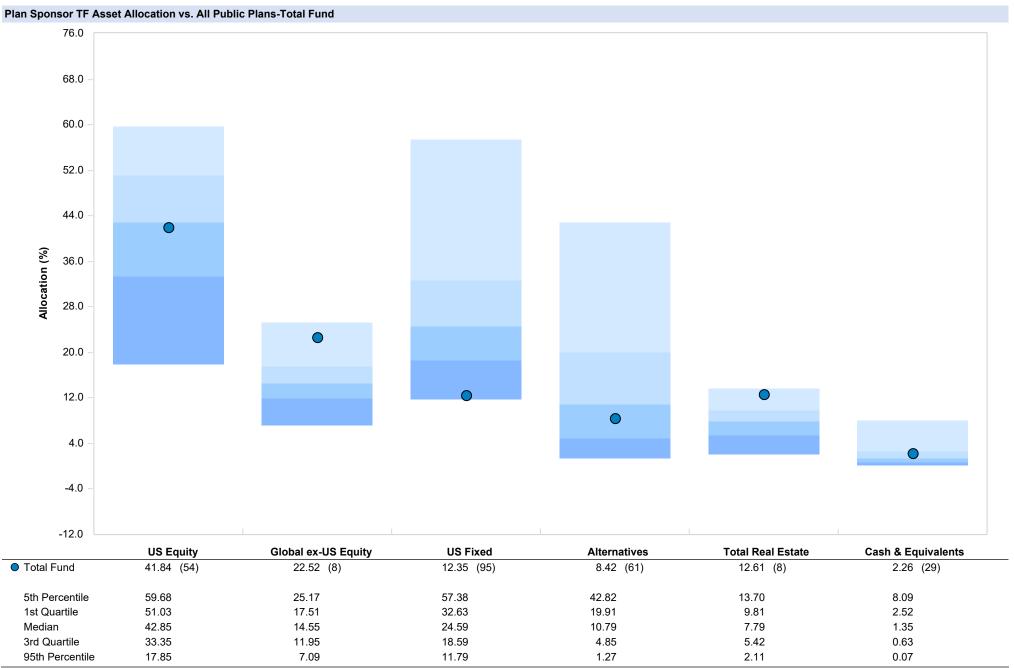
9. JCR III remains approximately 87% called with no additional calls expected. JCR IV remains just over 80% called. JCR IV is expected to fully call their unfunded commitment over the balance of 2022. Performance is inline with expectations for both funds.

10. Landmark Fund VII had continued activity during the quarter and is approximately 38% called. IRR since inception is 16.08%.

11. TerraCap is 100% called. Artemis and Centerbridge have yet to call any capital.

12. As of 12/31/2021, the Total Fund was in compliance with Public Act 314. The equity allocation was over the IPS maximum due to the underweight to hedge funds and real estate.





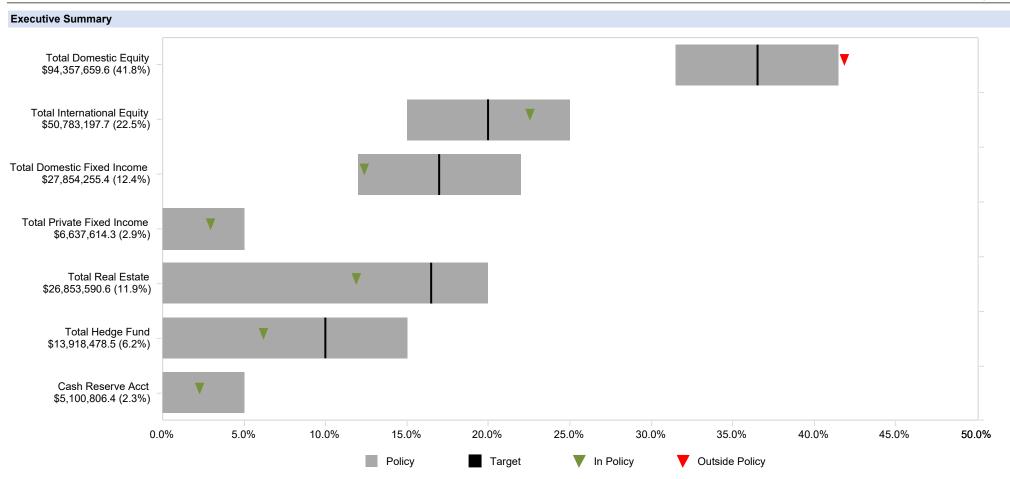
Parentheses contain percentile rankings.

Calculation based on quarterly periodicity.

Comparative Performance Trailing Returns Southfield Fire & Police Retirement System As of December 31, 2021

Comparative Pe	erformance								
	QTR	YTD	1 YR	3 YR	5 YR	7 YR	10 YR	Inception	Inception Date
Total Fund 4.	.1777	15.0303	15.0303	14.2612	10.3470	8.7069	9.3396	7.9703	01/01/1989





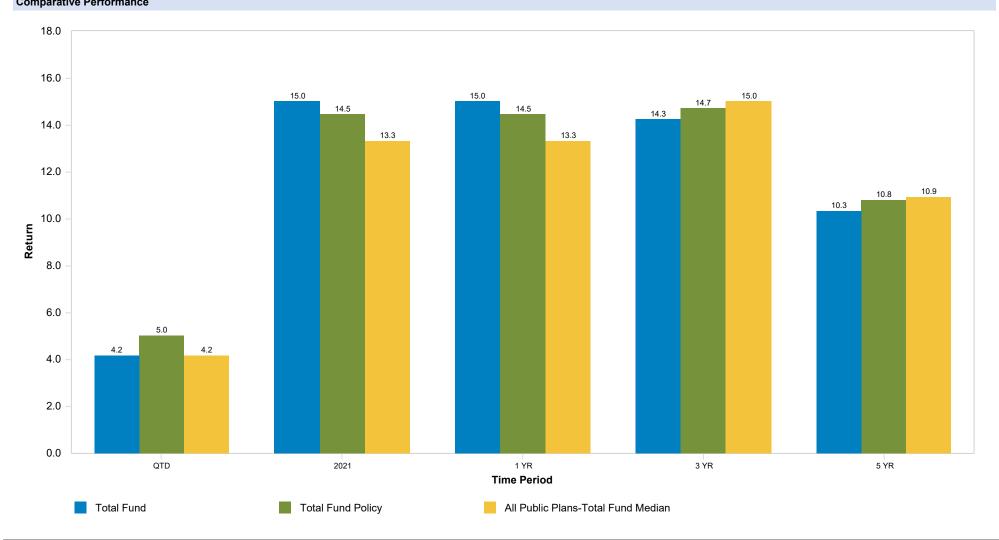
### Asset Allocation Compliance

	Asset Allocation \$	Current Allocation (%)	Minimum Allocation (%)	Target Allocation (%)	Maximum Allocation (%)	Min. Rebal. (\$000)	Target Rebal. (\$000)	Max. Rebal. (\$000)
Total Fund	225,505,603	100.0	N/A	100.0	N/A	-	-	-
Total Domestic Equity	94,357,660	41.8	31.5	36.5	41.5	-23,323,395	-12,048,115	-772,835
Total International Equity	50,783,198	22.5	15.0	20.0	25.0	-16,957,357	-5,682,077	5,593,203
Total Domestic Fixed Income	27,854,255	12.4	12.0	17.0	22.0	-793,583	10,481,697	21,756,977
Total Private Fixed Income	6,637,614	2.9	0.0	0.0	5.0	-6,637,614	-6,637,614	4,637,666
Total Real Estate	26,853,591	11.9	0.0	16.5	20.0	-26,853,591	10,354,834	18,247,530
Total Hedge Fund	13,918,479	6.2	0.0	10.0	15.0	-13,918,479	8,632,082	19,907,362
Cash Reserve Acct	5,100,806	2.3	0.0	0.0	5.0	-5,100,806	-5,100,806	6,174,474



### Performance At-A-Glance Total Fund As of December 31, 2021

Gain/Loss Summary					
	QTD	YTD	1 YR	3 YR	5 YR
Total Fund					
Beginning Market Value	218,115,217	207,538,096	207,538,096	184,468,099	192,844,714
Net Contributions	-1,263,151	-10,726,216	-10,726,216	-35,145,549	-59,094,813
Gain/Loss	8,653,537	28,693,722	28,693,722	76,183,053	91,755,701
Ending Market Value	225,505,603	225,505,603	225,505,603	225,505,603	225,505,603
Comparative Performance					





Asset Allocation Attributes																		
	Domestic	Equity	Internationa	al Equity	Emerging	Equity	Domestic Fixe	ed Income	Real Es	tate	Hedge F	und	Private E	quity	Cash Equ	ivalent	Total Fu	Ind
	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%
Total Fund	93,604,828	41.51	44,614,433	19.78	4,420,821	1.96	27,854,255	12.35	30,755,169	13.64	13,918,479	6.17	2,914,711	1.29	7,422,907	3.29	225,505,603	100.00
Total Domestic Equity	93,604,828	99.20	-	-	-	-	-	-	-	-	-	-	-	-	752,832	0.80	94,357,660	41.84
YCM Dividend Aristocrats	20,493,695	99.19													167,920	0.81	20,661,614	9.16
YCM S&P 500 Growth	20,706,139	99.79											_	_	43,443	0.01	20,749,583	9.20
YCM S&P 500 Value	19,778,733	99.57							_					_	45,445 85,909	0.43	19,864,642	8.81
Reinhart Sm/Mid Cap PMV	11,569,518	96.99	-	-	-	-	-	-	-	-	-	-	-	-	359,649	3.01	11,929,167	5.29
Champlain SC	11,715,592	90.99 99.19	-	-	-	-	-	-	-	-	-	-	-	-	95,911	0.81	11,829,107	5.29
Fidelity Extended Mkt Index (FSMAX)	9,341,151	100.00	-	-	-	-	-	-	-	-	-	-	-	-	55,511	0.01	9,341,151	4.14
Fidelity Extended with index (FSWAX)	9,341,131	100.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,341,131	4.14
Total International Equity	-	-	44,614,433	87.85	4,420,821	8.71	-	-	-	-	-	-	-	-	1,747,944	3.44	50,783,198	22.52
1607 Capital Partners	-	-	40,839,476	95.90	-	-	-	-	-	-	-	-	-	-	1,747,944	4.10	42,587,419	18.89
JPMorgan Emerging Markets (JEMWX)	-	-	3,774,958	100.00	-	-	-	-	-	-	-	-	-	-	-	-	3,774,958	1.67
ABS EM Strategic	-	-	-	-	4,420,821	100.00	-	-	-	-	-	-	-	-	-	-	4,420,821	1.96
Total Domestic Fixed Income	-	-	-	-	-	-	27,854,255	100.00	-	-	-	-	-	-	-	-	27,854,255	12.35
Loomis Sayles Intermediate Duration							27,854,255	100.00									27,854,255	12.35
Bloomfield Capital Income Fund V Series A	-	-	-	-	-	-	27,004,200	100.00	3,722,903	100.00	-	-	-	-	-	-	3.722.903	12.55
Marathon Distressed Credit Fund LP	-	-	-	-	-	-	-	-	3,722,903	100.00	-	-	-	-	-	-	2,914,711	1.05
Maration Distressed Credit Fund LF	-	-	-	-	-	-	-	-	-	-	-	-	2,914,711	100.00	-	-	2,914,711	1.29
Total Real Estate	-	-	-	-	-	-	-	-	27,032,266	100.67	-	-	-	-	-178,675	-0.67	26,853,591	11.91
PRISA I									5.001.027	100.00							5.001.027	2.22
PRISA II									6,195,911	100.00				_			6,195,911	2.75
PRISA III									6,486,001	102.83			_	_	-178,675	-2.83	6,307,326	2.80
JCR Capital Fund 3 B	_	_		_			_		1,417,375	100.00	_	_	_	_	110,010	2.00	1,417,375	0.63
JCR Income Plus IV	-	-	_	-	_	-	-	_	1,782,246	100.00	-	-	-	-	-	-	1,782,246	0.79
Landmark Real Estate Partners VIII, L.P.	-	-	-	-	-	-	-	-	2,149,705	100.00	-	-	-	-	-	-	2,149,705	0.75
TerraCap Partners V	-	-	-	-	-	-	-	-	4,000,000	100.00	-	-	-	-	-	-	4,000,000	1.77
	-	-	-	-	-	-	-	-	4,000,000	100.00	-	-	-	-	-	-	4,000,000	1.77
Total Hedge Fund	-	-	-	-	-	-	-	-	-	-	13,918,479	100.00	-	-	-	-	13,918,479	6.17
<b>.</b>											10 100 0	100.05					10 100 0-5	5.05
Nantucket Institutional	-	-	-	-	-	-	-	-	-	-	13,180,950	100.00	-	-	-	-	13,180,950	5.85
KStone Partners	-	-	-	-	-	-	-	-	-	-	737,529	100.00	-	-	-	-	737,529	0.33
Cash Reserve Acct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,100,806	100.00	5,100,806	2.26



	Q.	TR	ΥT	D	1 Y	′R	3 \	(R	5 ٦	(R	7 ۱	(R	10 YR		Inception		Inception Date	
Total Fund	4.18	(55)	15.03	(23)	15.03	(23)	14.26	(74)	10.35	(69)	8.71	(52)	9.34	(60)	7.97		01/01/1989	
Total Fund Policy	5.00	(23)	14.47	(31)	14.47	(31)	14.73	(64)	10.82	(57)	8.97	(41)	9.69	(46)	8.77			
All Public Plans-Total Fund Median	4.30		13.42		13.42		15.39		11.08		8.73		9.59		9.13			
Population	479		475		475		470		453		429		385		11			
Total Fund (Net of Fees)	4.04		14.45		14.45		13.73		9.83		8.11		N/A		7.75		01/01/2014	
Total Domestic Equity	8.52	(38)	23.95	(62)	23.95	(62)	18.83	(81)	12.75	(68)	N/A		N/A		13.50	(71)	01/01/2016	
Russell 3000 Index	9.28	(30)	25.66	(52)	25.66	(52)	25.79	(38)	17.97	(38)	14.55	(37)	16.30	(38)	17.08	(37)		
IM U.S. Equity (SA+CF) Median	7.54		25.96		25.96		23.49		15.56		13.05		15.39		15.59			
Population	1,643		1,639		1,639		1,601		1,556		1,479		1,379		1,518			
Total International Equity	1.76	(42)	8.50	(57)	8.50	(57)	17.64	(32)	13.19	(30)	N/A		N/A		12.29	(23)	01/01/2016	
MSCI AC World ex USA (Net)	1.82	(41)	7.82	(61)	7.82	(61)	13.18	(63)	9.61	(69)	6.56	(74)	7.28	(79)	8.74	(68)		
IM International Equity (SA+CF) Median	1.05		10.10		10.10		14.80		11.05		8.00		9.21		10.11			
Population	861		848		848		813		769		705		592		743			
Total Fixed Income	-0.48	(37)	2.52	(3)	2.52	(3)	6.37	(2)	4.57	(6)	N/A		N/A		4.64	(5)	01/01/2016	
Bloomberg Intermed Aggregate Index	-0.51	(44)	-1.29	(76)	-1.29	(76)	3.60	(85)	2.79	(84)	2.45	(87)	2.37	(84)	2.65	(85)		
IM U.S. Intermediate Duration (SA+CF) Median	-0.52		-0.96		-0.96		4.17		3.23		2.82		2.86		3.09			
Population	129		129		129		129		126		125		118		126			
Total Real Estate	3.89	(96)	25.34	(24)	25.34	(24)	13.28	(10)	11.88	(7)	N/A		N/A		11.57	(7)	01/01/2016	
NCREIF Fund Index-ODCE (VW)	7.97	(34)	22.17	(49)	22.17	(49)	9.20	(61)	8.71	(61)	9.60	(63)	10.45	(70)	8.72	(66)		
IM U.S. Open End Private Real Estate (SA+CF) Median	6.97		21.86		21.86		10.23		9.32		10.04		11.07		9.39			
Population	17		17		17		17		17		16		16		16			
Total Hedge Fund	-2.04	(91)	4.80	(53)	4.80	(53)	8.67	(18)	6.49	(8)	N/A		N/A		5.82	(8)	01/01/2016	
HFRI FOF: Diversified Index	0.23	(65)	5.85	(35)	5.85	(35)	8.17	(21)	5.52	(15)	3.95	(7)	4.48	(3)	4.66	(18)		
IM Alternative Multi-Strategy (MF) Median	1.06		4.96		4.96		6.04		3.54		2.84		3.17		3.36			
Population	121		118		118		103		79		59		20		79			



Comparative Performance Trailing Returns Southfield Fire & Police Retirement System

As of December 31, 2021

	Q	TR	ΤΥ	D	1 ۱	(R	3 \	(R	5`	ŕR	ר 7	(R	10	Ince	ption	Inception Date	
Total Domestic Equity	8.52		23.95		23.95		18.83		12.75		N/A		N/A		13.50		01/01/2016
YCM Dividend Aristocrats S&P 500 Dividend Aristocrats Index TR IM U.S. Large Cap Core Equity (SA+CF) Median Population	11.77 11.73 10.07 176	(19) (19)	25.87 25.99 27.45 176	(61) (61)	25.87 25.99 27.45 176	(61) (61)	20.83 20.56 24.96 171	(82) (83)	15.85 15.72 17.95 166	(74) (75)	13.10 12.93 14.32 159	(73) (75)	N/A 15.41 16.17 147	(72)	15.39 15.25 16.11 147	(70) (74)	07/01/2012
YCM S&P 500 Growth S&P 500 Growth IM U.S. Large Cap Growth Equity (SA+CF) Median Population	13.42 13.37 9.39 179	(10) (10)	31.98 32.01 25.26 179	(9) (9)	31.98 32.01 25.26 179	(9) (9)	N/A 32.20 31.20 178	(39)	N/A 24.11 23.73 174	(46)	N/A 18.70 17.99 170	(35)	N/A 19.23 18.84 163	(38)	34.59 34.75 30.62 178	(14) (14)	08/01/2020
YCM S&P 500 Value S&P 500 Value IM U.S. Large Cap Value Equity (SA+CF) Median Population	8.34 8.31 8.07 226	(45) (45)	24.90 24.90 27.76 226	(73) (73)	24.90 24.90 27.76 226	(73) (73)	N/A 18.65 19.86 223	(64)	N/A 11.90 12.90 220	(69)	N/A 10.37 10.96 215	(61)	N/A 13.29 13.93 203	(66)	29.69 29.72 33.60 223	(79) (79)	08/01/2020
Reinhart Sm/Mid Cap PMV Russell 2500 Index IM U.S. SMID Cap Equity (SA+CF) Median Population	4.66 3.82 6.02 164	(70) (78)	25.28 18.18 23.80 164	(43) (76)	25.28 18.18 23.80 164	(43) (76)	N/A 21.91 22.84 153	(57)	N/A 13.75 13.84 142	(53)	N/A 11.74 11.86 126	(54)	N/A 14.15 14.56 112	(57)	16.51 20.96 21.80 159	(88) (58)	11/01/2019
Champlain SC Russell 2000 Index IM U.S. Small Cap Core Equity (SA+CF) Median Population	5.40 2.14 6.03 99	(59) (96)	13.91 14.82 24.90 98	(99) (93)	13.91 14.82 24.90 98	(99) (93)	N/A 20.02 22.69 97	(76)	N/A 12.02 14.21 96	(74)	N/A 10.76 12.63 91	(87)	N/A 13.23 14.83 83	(89)	19.71 17.36 20.66 97	(60) (78)	01/01/2020
Fidelity Extended Mkt Index (FSMAX) S&P Completion Index IM U.S. Mid Cap Core Equity (MF) Median Population	0.70 0.66 7.99 316	(100) (100)	12.41 12.35 24.87 306	(97) (97)	12.41 12.35 24.87 306	(97) (97)	N/A 23.85 20.79 291	(15)	N/A 15.20 12.35 266	(11)	N/A 12.45 10.18 210	(12)	N/A 14.88 12.85 170	(8)	18.81 18.77 28.92 306	(94) (94)	12/01/2020
Total International Equity	1.76		8.50		8.50		17.64		13.19		N/A		N/A		12.29		01/01/2016
1607 Capital Partners MSCI AC World ex USA IM International Equity (SA+CF) Median Population	3.07 1.88 1.05 861	(25) (39)	12.09 8.29 10.10 848	(40) (58)	12.09 8.29 10.10 848	(40) (58)	18.64 13.70 14.80 813	(27) (60)	13.85 10.12 11.05 769	(25) (61)	9.74 7.05 8.00 705	(29) (66)	10.39 7.78 9.21 592	(32) (71)	7.91 5.08 6.59 395	(24) (81)	07/01/2006
JPMorgan Emerging Markets (JEMWX) MSCI Emerging Markets (Net) Index IM Emerging Markets Equity (MF) Median Population	-4.87 -1.31 -1.26 826	(92) (52)	-10.14 -2.54 -1.60 785	(90) (59)	-10.14 -2.54 -1.60 785	(90) (59)	N/A 10.94 11.81 716	(62)	N/A 9.87 9.59 609	(46)	N/A 6.11 5.87 496	(45)	N/A 5.49 5.62 341	(52)	-2.39 4.26 5.70 780	(89) (59)	12/01/2020

Returns for periods greater than one year are annualized. Returns are expressed as percentages.



Comparative Performance Trailing Returns Southfield Fire & Police Retirement System As of December 31, 2021

	Q	TR	ΥT	D	1 Y	′R	3 \	/R	5	(R	7 ۱	(R	10	YR	Ince	ption	Inception Date
ABS EM Strategic	0.14	(33)	6.09	(32)	6.09	(32)	N/A		N/A		N/A		N/A		12.94	(33)	12/01/2020
MSCI Emerging Markets IMI (Net)	-0.98	(56)	-0.28	(57)	-0.28	(57)	11.58	(67)	10.06	(62)	6.25	(70)	5.71	(78)	6.53	(61)	
IM Emerging Markets Equity (SA+CF) Median	-0.71		1.16		1.16		13.14		10.82		7.25		6.98		8.63		
Population	244		240		240		229		214		193		149		236		
Total Domestic Fixed Income	-0.58		-0.90		-0.90		5.11		3.82		N/A		N/A		4.01		01/01/2016
Loomis Sayles Intermediate Duration	-0.58	(71)	-0.90	(46)	-0.90	(46)	5.19	(8)	3.88	(8)	N/A		N/A		3.30	(11)	08/01/2016
Bloomberg Intermediate US Govt/Credit Idx	-0.57	(67)	-1.44	(87)	-1.44	(87)	3.86	(74)	2.91	(81)	2.53	(84)	2.38	(84)	2.27	(84)	
IM U.S. Intermediate Duration (SA+CF) Median	-0.52		-0.96		-0.96		4.17	. ,	3.23		2.82		2.86		2.61		
Population	129		129		129		129		126		125		118		126		
PRISA Real Estate Composite	6.86		25.09		25.09		12.48		11.11		12.04		12.41		8.70		07/01/1993
PRISA I	6.47	(70)	21.78	(51)	21.78	(51)	9.92	(57)	9.19	(56)	9.99	(53)	10.75	(60)	7.37	(59)	01/01/2006
NCREIF Fund Index-ODCE (VW)	7.97	(34)	22.17	(49)	22.17	(49)	9.20	(61)	8.71	(61)	9.60	(63)	10.45	(70)	7.35	(60)	
IM U.S. Open End Private Real Estate (SA+CF) Median	6.97		21.86		21.86		10.23	. ,	9.32		10.04		11.07		7.55		
Population	17		17		17		17		17		16		16		10		
PRISA II	6.76	(63)	23.21	(45)	23.21	(45)	10.18	(51)	9.61	(45)	10.86	(28)	11.97	(27)	7.15	(86)	01/01/2006
NCREIF Fund Index-ODCE (VW)	7.97	(34)	22.17	(49)	22.17	(49)	9.20	(61)	8.71	(61)	9.60	(63)	10.45	(70)	7.35	(60)	
IM U.S. Open End Private Real Estate (SA+CF) Median	6.97		21.86		21.86		10.23		9.32		10.04		11.07		7.55		
Population	17		17		17		17		17		16		16		10		
PRISA III	7.23	(44)	29.20	(7)	29.20	(7)	16.71	(1)	14.23	(1)	15.80	(1)	N/A		16.14	(1)	04/01/2013
NCREIF Fund Index-ODCE (VW)	7.97	(34)	22.17	(49)	22.17	(49)	9.20	(61)	8.71	(61)	9.60	(63)	10.45	(70)	10.37	(64)	
IM U.S. Open End Private Real Estate (SA+CF) Median	6.97		21.86		21.86		10.23		9.32		10.04		11.07		10.71		
Population	17		17		17		17		17		16		16		16		



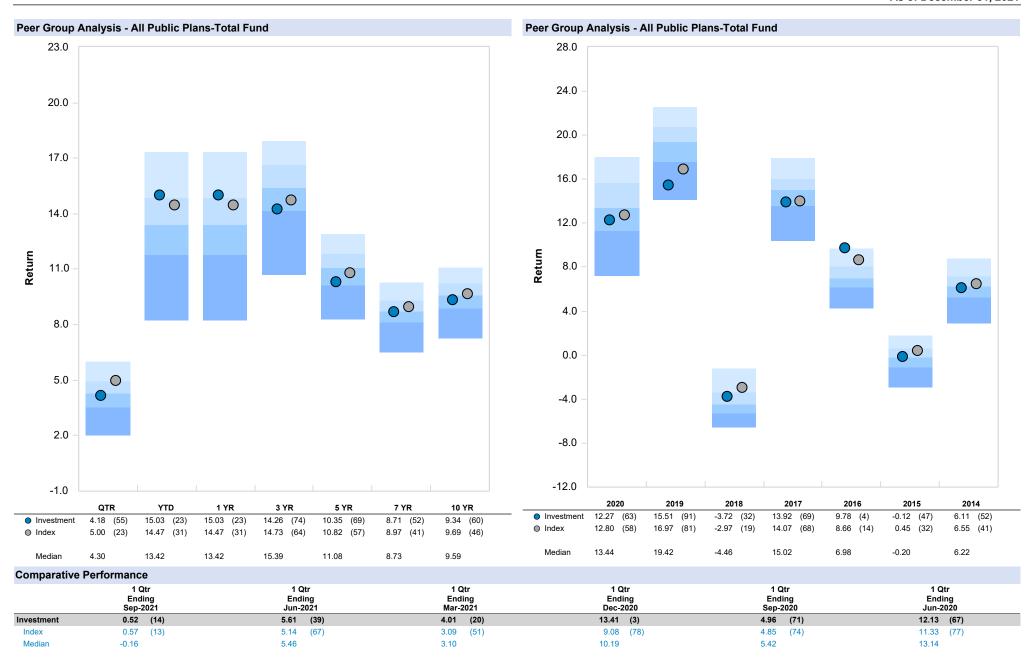
Comparative Performance Trailing Returns Southfield Fire & Police Retirement System

As of December 31, 2021

	QT	ſR	ΥT	D	1 Y	(R	3 \	(R	5 \	<b>'</b> R	ר 7	(R	10	YR	Ince	ption	Inceptio Date
Total Hedge Fund	-2.04		4.80		4.80		8.67		6.49		N/A		N/A		5.82		01/01/2016
Nantucket Institutional	-2.09	(91)	4.59	(56)	4.59	(56)	11.59	(4)	9.03	(2)	7.09	(1)	8.33	(1)	6.23	(N/A)	07/01/2008
HFRI FOF: Diversified Index	0.23	(65)	5.85	(35)	5.85	(35)	8.17	(21)	5.52	(15)	3.95	(7)	4.48	(3)	2.54	(N/A)	
IM Alternative Multi-Strategy (MF) Median	1.06		4.96		4.96		6.04		3.54		2.84		3.17		N/A		
Population	121		118		118		103		79		59		20		N/A		
KStone Partners	-1.16	(88)	3.89	(20)	3.89	(20)	4.37	(48)	4.01	(31)	N/A		N/A		3.80	(39)	10/01/2015
90 Day T-Bill +3.5%/Yr	0.87	(5)	3.55	(22)	3.55	(22)	4.53	(45)	4.68	(17)	4.39	(14)	4.14	(11)	4.49	(22)	
IM Alternative Credit Focus (MF) Median	-0.31		0.81		0.81		4.25		3.38		2.84		3.03		3.54		
Population	184		183		183		172		159		122		65		137		



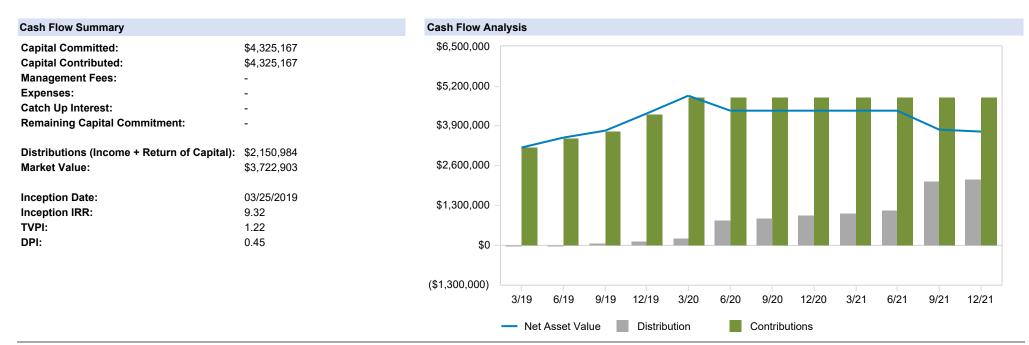
### Strategy Review Total Fund | Total Fund Policy As of December 31, 2021





Fund Information			
Type of Fund:	Direct	Vintage Year:	2018
Strategy Type:	Other	Management Fee:	1.5%
Size of Fund:	300,000,000	Preferred Return:	8.5% (Series A only)
Inception:	11/16/2018	General Partner:	Bloomfield Capital Partners V, LLC
Final Close:	11/16/2019		
Investment Strategy:	debt and debt-related investments) with short to intermediate-term durations and returns that have a low correlation to traditional public markets (although there ca estate debt and other general debt and debt-related transactions (including REO invest in traditional leveraged common equity positions in real estate; however, th equity positions in connection with certain loans in order to obtain supplemental of foreclosure process with such loan for the benefit of the Fund. The primary focus related investments) will be to capitalize on gap, transitional, bridge, special situa	often contractual cash f n be no assurances tha properties, and preferre the Fund may acquire RE collateral to enhance the of private credit and sp tion and opportunistic fil	EO and similar non-traditional properties and may also take incidental or pledged

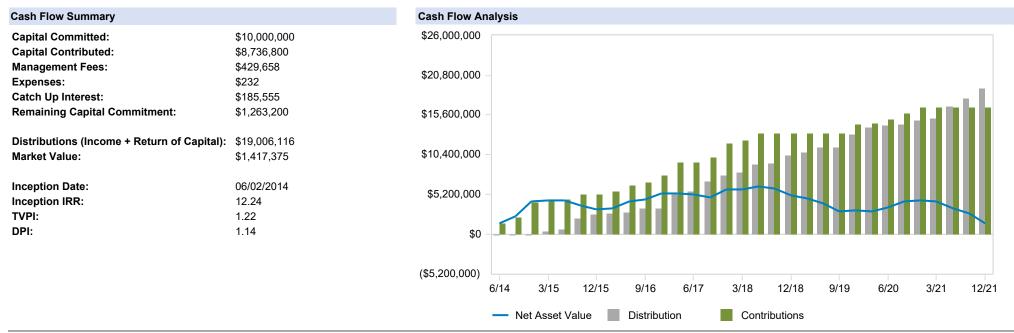
same or similar nature as the Series typically invests.





Fund Information			
Type of Fund:	Direct	Vintage Year:	2014
Strategy Type:	Value-Add Real Estate	Management Fee:	1.50% on Committed Capital plus 20% after 9% Preferred Return
Size of Fund:	329,500,000	Preferred Return:	9.00%
Inception:	06/02/2014	General Partner:	JCR Capital
Final Close:	01/14/2016		
Investment Strategy	: In line with the prior JCR funds, Fund III B is credit-focused with a mandate of p	rotecting principal while	providing investors with attractive risk adjusted returns, including current yield

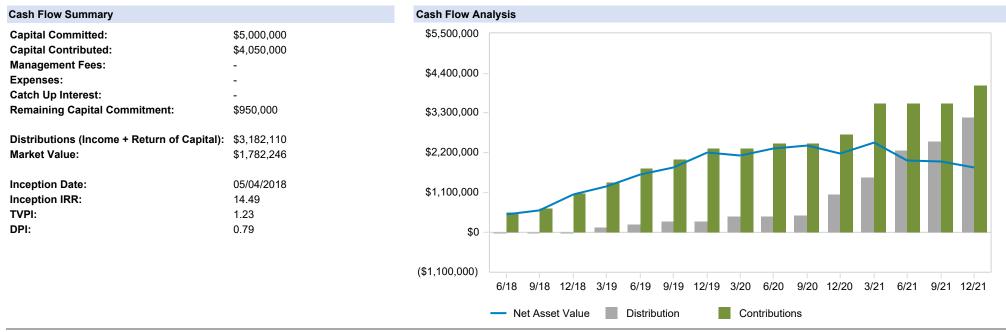
and profit participation components. Fund III B's investment strategy is to provide capital to middle market sponsors for value-add, opportunistic and special situations. The fund targets a variety of asset classes and typically provides high leverage senior debt, mezzanine debt, preferred equity, joint venture equity and programmatic joint venture facilities.





Fund Information			
Type of Fund:	Partnership	Vintage Year:	2017
Strategy Type:	Value-Add Real Estate	Management Fee:	1.50%
Size of Fund:	216,495,000	Preferred Return:	8.00% Incentive Fee 20.00%
Inception:	10/20/2017	General Partner:	JCR Capital Investment Company, LLC
Final Close:	TBD		
Investment Strategy	The JCR Income Plus Fund IV, L.P. (the "Fund" or "Fund IV") will seek to provide customized capital solutions to middle market commercial real estate operators for diversified portfolio which will primarily consist of high yield debt, participating det estate properties in the United States. The Fund will seek to invest in a variety of The Fund will generally seek to make investments between \$5 million and \$15 m total target capitalization of \$300 million, with over \$14 million being committed by	or value-add, underperfo ot, structured preferred of f property types includin illion in large liquid mark	orming, undermanaged and opportunistic properties. Fund IV will seek to invest in a equity and structured equity positions primarily in cash flowing commercial real g multifamily, industrial, office, retail and unique middle market special situations. kets in the U.S. with durations ranging from six to 36 months. Fund IV will have a

representing \$36 million in investment commitments.



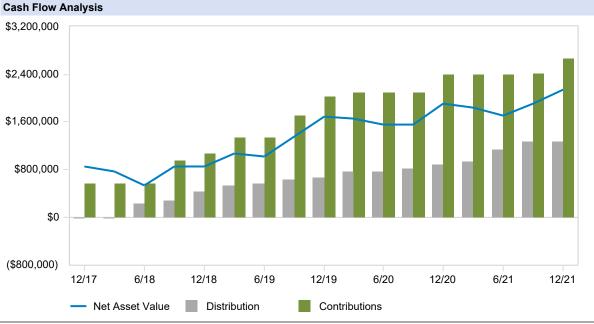


Fund Information			
Type of Fund:	Partnership	Vintage Year:	2016
Strategy Type:	Secondaries	Management Fee:	1.00%
Size of Fund:	3,333,000,000	Preferred Return:	8.00%
Inception:	12/15/2016	General Partner:	Landmark Real Estate Fund-GP VIII, L.P.
Final Close:	March 2018		
1	Les des eds De el Estate Deste en VIII L.D Delesser lineite des este	and the state of t	1) to be the manufacture of the second distance of the second second second second second second second second

Investment Strategy: Landmark Real Estate Partners VIII, L.P., a Delaware limited partnership (the "Partnership" or the "Fund"), is being established to provide investors access to a diversified private equity portfolio of real estate related investments, primarily through secondary market transactions. The Fund expects to make secondary investments principally in various types of real estate and real estate related entities, such as commingled real estate funds, limited partnerships, joint ventures, real estate operating companies and non-traded REIT vehicles.

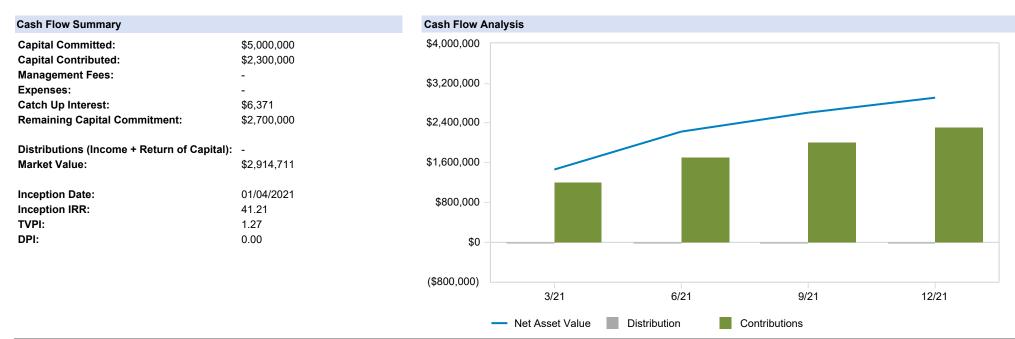
#### **Cash Flow Summary**

Capital Committed:	\$5,000,000
Capital Contributed:	\$1,897,403
Management Fees:	-
Expenses:	-
Catch Up Interest:	\$11,138
Remaining Capital Commitment:	\$3,102,597
Distributions (Income + Return of Capital):	\$1,274,805
Market Value:	\$2,149,705
Inception Date:	12/21/2017
Inception IRR:	16.08
TVPI:	1.29
DPI:	0.48





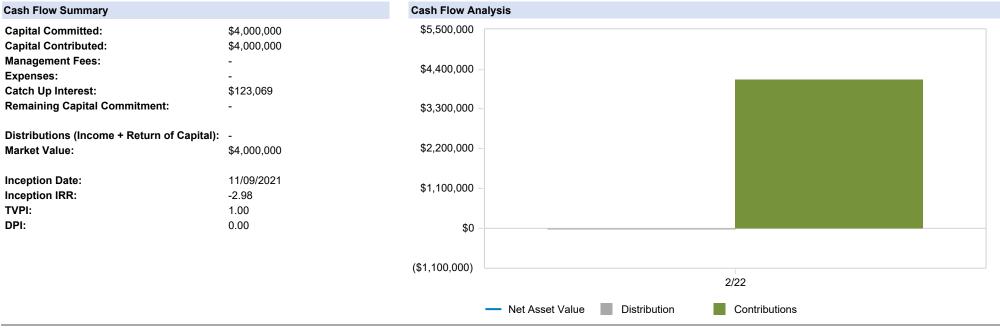
Fund Information			
Type of Fund:	Fund Of Funds	Vintage Year:	2019
Strategy Type:	Distressed	Management Fee:	1.75% for Subscription Size <\$10 million; 1.50% for Subscription Size >\$10 million to <\$25 million; 1.25% for Subscription Size >\$25 million to <\$100 million; 1.00% for Subscription Size >\$100 million
Size of Fund:	2,000,000,000	Preferred Return:	Incentive Fee 20% with 8% hurdle
Inception:	12/03/2019	General Partner:	Marathon Asset Management, LP
Final Close:	Expected December 2020		
Investment Strategy	: Marathon will look to construct a portfolio of distressed, dislocated, and restructu Core holdings of the Fund will include bankruptcy reorganizations, liquidations, r		portunities in complex situations with attractive risk-adjusted return characteristics. Ind exchanges, debtor-in-possession financings, and dislocated credit.





Fund Information			
Type of Fund:	Partnership	Vintage Year:	2020
Strategy Type:	Value-Add Real Estate	Management Fee:	1.5% on Committed Capital During the Investment Period; 1.5% on Invested Capital thereafter
Size of Fund:	400,000,000	Preferred Return:	8.00%
Inception:	01/01/2020	General Partner:	TerraCap Partners GP V LLC
Final Close:	10/1/2022		
Investment Strategy	: TerraCap Management, LLC considers thematic factors such as business forma market-by-market basis, as most metros and submarkets have different econom		h and population growth, corporate relocations, GDP growth and in migration on a therefore move through their economic cycles differently. The Investment Manager

makes moderate strategic overweighting or underweighting to markets, depending on the specific economic drivers influencing supply and demand. The Investment Manager intends to invest the Fund's assets so that no economic industry base will be allowed to dominate any property or the portfolio's performance.





Total Portfolio Compliance Summary							
	December 31, 2021	Current	IPS Target	IPS Range	Act 314	Compliance	Compliance
	Market Value \$	Allocation %	Allocation %	Allocation %	Limit %	within Ranges	w/314 Limits
Total Portfolio (excluding Unfunded Commitments)	225,505,602.55	100.0%					
Total Equity (14)	145,140,857.33	64.4%	50.0%	40.0% - 70.0%	70.0%	YES	YES
Total Equity (14)	145,140,657.33	64.4%	50.0%	40.0% - 70.0%	70.0%	TES	TES
Domestic Equity (14)	94,357,659.59	41.8%	34.0%	29.0% - 39.0%	70.0%	NO	YES
	04,001,000.00	41.070	04.070	20.070 - 00.070	10.070		120
International Equity (14)	50,783,197.74	22.5%	16.0%	11.0% - 21.0%	70.0%	NO	YES
Total US Fixed Income (17 & 17.1.a.iii)	34,491,869.69	15.3%	20.0%	20.0% - 50.0%	100.0%	NO	YES
US Investment Grade Fixed Income (17)	27,854,255.40	12.4%	20.0%	15.0% - 30.0%	100.0%	NO	YES
U.O. New Journal Constant Frank Journal (47.4 - 111)	0.007.044.00	0.0%	0.0%	0.00/ 5.00/	400.0%	VEO	VEO
US Non-Investment Grade Fixed Income (17.1.a.iii)	6,637,614.29	2.9%	0.0%	0.0% - 5.0%	100.0%	YES	YES
Total Non US Fixed Income (20k)	-	0.0%	0.0%	0.0% - 0.0%	20.0%	YES	YES
		0.070	0.070	0.070 0.070	20.070	120	120
Total Real Estate (18 & 19)	26,853,590.64	11.9%	14.0%	0.0% - 20.0%	20.0%	YES	YES
Alternative Investments (20d)	13,918,478.51	6.2%	<b>16.0%</b>	0.0% - 20.0%	20.0%	YES	YES
Short Term/Cash Reserves	5,100,806.38	2.3%	0.0%	0.0% - 3.0%	N/A	YES	YES



### **Commission Recapture Program**

Broker	2002 thru 2013	2014	2015	2016	2017	2018	2019	2020	YTD 21
Bank of New York*	\$116,714	\$2501	\$1,325	\$1,613	\$1,000	\$392	\$837	\$0	\$0
Income to Fund	\$116,714	\$2,501	\$1,325	\$1,613	\$1,000	\$392	\$837	\$0	\$0

NOTE: \* (formerly L, J&R) Participants may include: Loomis Sayles, Fiduciary, WHV, and 1607 Capital

\*Participants may include: Loomis Sayles, Fiduciary, WHV, and 1607 Capital

### Securities Lending Program (Northern Trust)

	2002 thru 2013	2014	2015	2016	2017	2018	2019	2020	YTD 21
Gross Income	\$829,575	\$131,990	\$123,118	\$147,987	\$134,192	\$134,018	\$97,197	\$72,937	\$40,621
Less: Program Fees	\$332,202	\$52,698	\$49,144	\$59,108	\$53,576	\$53,491	\$40,715	\$29,113	\$16,217
Income To Fund	\$497,373	\$79,292	\$73,974	\$88,879	\$80,616	\$80,527	\$56,482	\$43,824	\$24,404



# Notes:

As of report run date statements for Bloomfield, JCR, Marathon, Landmark and KStone were not released for current quarter.



### **Total Fund Objectives:**

- To earn an annual average return of 7.50% over rolling 5 year periods.
- To earn an average annual, real return of 3.75% after inflation over rolling five year periods.
- To meet the assumed actuarial rate of return with a high degree of probability.
- To rank in the 50<sup>th</sup> percentile over twelve month rolling periods and in the 40<sup>th</sup> percentile over rolling five year periods, among public employee retirement funds.

### Manager Objectives:

• To exceed their performance return standard with equal or less risk over all three year periods.

### **Asset Allocation Policy:**

Asset Class	Target	Ranges
U.S. Equities	34%	29 – 39%
Non-U.S. Equities	16%	11 – 21%
Global Fixed Income	20%	15 - 30%
Real Estate	14%	0-20%
Alternative Investments	16%	0-20%
Cash & Equivalents	0%	0-3%

### **Equity Portfolio Guidelines:**

- No more than 5% of the portfolio may be invested in the stock of any one company.
- No more than 10% of the portfolio may be invested in ADRs.

### **Fixed Income Portfolio Guidelines:**

- No more than 5% of the portfolio may be invested with one issuer, except for the U.S. Treasury and Agency securities.
- No more than 15% of the portfolio in below investment grade.
- No more than 30% of total assets in non-U.S. dollar denominated securities. At least 75% of any non-U.S. currency exposure must be hedged. May invest beyond the 30% limit in Yankee and Euro issues.

### **Other Portfolio Guidelines:**

- Managers are expected to be fully invested at all times, however they may raise cash if this is deemed appropriate under the circumstances.
- Leveraging the portfolio is prohibited.
- Derivative contracts only as permitted.
- Additional investment policies and guidelines are contained in the formal Statement of Investment Policies, Procedures and Objectives.
- All investment managers should follow State of Michigan laws governing the investment of public retirement plan assets.



Total Fund Policy			
Allocation Mandate	Weight (%)		
May-2021			
Russell 3000 Index	36.50		
MSCI AC World ex USA (Net)	20.00		
Bloomberg Intermed Aggregate Index	17.00		
NCREIF Fund Index-ODCE (VW)	16.50		
HFRI FOF: Diversified Index	10.00		



Southfield Fire & Police Retirement System Fee Analysis As of December 31, 2021

	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
YCM S&P 500 Growth	0.09	20,749,583	18,600	0.10 % of First \$10 M 0.08 % of Next \$40 M 0.06 % of Next \$50 M 0.06 % Thereafter
YCM S&P 500 Value	0.09	19,864,642	17,892	0.10 % of First \$10 M 0.08 % of Next \$40 M 0.06 % of Next \$50 M 0.06 % Thereafter
LSIA Dividend Aristocrats 10% Discount on overall fee.	0.09	20,661,614	18,529	0.10 % of First \$10 M 0.08 % of Next \$40 M 0.08 % Thereafter
Reinhart Sm/Mid Cap PMV	0.85	11,929,167	101,398	0.85 % of First \$25 M 0.65 % Thereafter
Champlain SC	1.00	11,811,503	118,115	1.00 % of Assets
Fidelity Extended Mkt Index (FSMAX)	0.04	9,341,151	3,736	0.04 % of Assets
1607 Capital Partners	0.75	42,587,419	319,406	0.75 % of Assets
JPMorgan Emerging Markets (JEMWX)	0.79	3,774,958	29,822	0.79 % of Assets
ABS EM Strategic	0.75	4,420,821	33,156	0.75 % of Assets
Loomis Sayles Intermediate Duration	0.25	27,854,255	69,636	0.25 % of Assets
Bloomfield Capital Income Fund V Series A	1.50	3,722,903	55,844	1.50 % of Assets
Marathon Distressed Credit Fund LP	1.75	2,914,711	51,007	1.75 % of Assets
PRISA I	0.75	5,001,027	37,508	0.75 % of Assets
PRISA II	0.85	6,195,911	52,665	0.85 % of Assets
PRISA III	1.10	6,307,326	69,381	1.10 % of Assets
JCR Capital Fund 3 B	1.50	1,417,375	21,261	1.50 % of Assets
JCR Income Plus IV	1.50	1,782,246	26,734	1.50 % of Assets
Landmark Real Estate Partners VIII, L.P.	1.00	2,149,705	21,497	1.00 % of Assets
TerraCap Partners V	1.50	4,000,000	60,000	1.50 % of Assets
Nantucket Institutional	1.00	13,180,950	131,810	1.00 % of Assets
KStone Partners	0.75	737,529	5,531	0.75 % of Assets
Total Fund	0.56	225,505,603	1,263,527	



Active Return	- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.
Alpha	- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.
Beta	- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.
Consistency	- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. Higher consistency indicates the manager has contributed more to the product's performance.
Distributed to Paid In (DPI)	- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.
Down Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance
Downside Risk	- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.
Excess Return	- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.
Excess Risk	- A measure of the standard deviation of a portfolio's performance relative to the risk free return.
Information Ratio	- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.
Public Market Equivalent (PME)	- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.
R-Squared	- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.
Return	- Compounded rate of return for the period.
Sharpe Ratio	- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.
Standard Deviation	- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.
Total Value to Paid In (TVPI)	- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life
Tracking Error	- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.
Treynor Ratio	- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.
Up Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.



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AndCo uses time-weighted calculations which are founded on standards recommended by the CFA Institute. The calculations and values shown are based on information that is received from custodians. AndCo analyzes transactions as indicated on the custodian statements and reviews the custodial market values of the portfolio. As a result, this provides AndCo with a reasonable basis that the investment information presented is free from material misstatement. This methodology of evaluating and measuring performance provides AndCo with a practical foundation for our observations and recommendations. Nothing came to our attention that would cause AndCo to believe that the information presented is significantly misstated.

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