

San Joaquin County Employees' Retirement Association (SJCERA)

Q2 2022

Quarterly Report

SJCERA Total Plan



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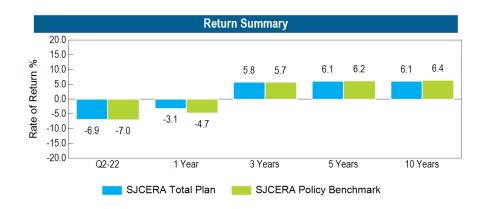
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Introduction



SJCERA Total Plan

Introduction | As of June 30, 2022



Summary of Cash Flows								
	Second Quarter	One Year						
Beginning Market Value	\$4,032,449,191	\$3,809,830,770						
Net Cash Flow	\$12,970,796	\$77,829,179						
Net Investment Change	-\$277,131,556	-\$119,371,517						
Ending Market Value	\$3,768,288,432	\$3,768,288,432						

	QTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	20 Yrs	25 Yrs
SJCERA Total Plan - Net	-6.9	-3.1	5.8	6.1	6.1	3.6	5.6	5.8
SJCERA Total Plan - Gross	-6.7	-2.6	6.4	6.8	6.9	4.4	6.2	6.3
SJCERA Policy Benchmark ²	<u>-7.0</u>	<u>-4.7</u>	<u>5.7</u>	<u>6.2</u>	<u>6.4</u>	<u>4.6</u>	<u>6.2</u>	<u>6.0</u>
Over/Under (vs. Net)	0.1	1.6	0.1	-0.1	-0.3	-1.0	-0.6	-0.2
InvMetrics Public DB > \$1B Net Median ¹	-8.6	-7.4	6.3	6.6	7.6	5.5	6.8	6.6

¹Investment Metrics Total Fund Public Universe >\$1 Billion, net of fees.

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²Policy Benchmark composition is listed in the Appendix.



Manager Commentary

Introduction

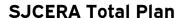
The SJCERA Total Portfolio had an aggregate value of \$3.8 billion as of June 30, 2022. During the latest quarter, the Total Portfolio decreased in value by \$264.2 million, and over the one-year period, the Total Portfolio decreased by \$41.5 million. The movements over the quarter and one-year periods were primarily driven by investment returns. The IMF is forecasting Global growth in 2022 of 3.2%, significantly down again from prior 2022 estimates with U.S. GDP growth of 2.5%. The IMF also forecasts 2022 and 2023 global inflation of 7.4% and 4.8%, respectively.

Returns for US stocks, as measured by the Russell 1000, and US Treasuries, as measured by the Bloomberg Long US Government bond index, for the second quarter of 2022 were -16.7% and -11.9%, respectively. Commodities were down -5.7% for the quarter, as measured by the Bloomberg Commodity Index and global equity returns, as measured by the MSCI ACWI IMI, were down -15.8% for the quarter ended June 30, 2022.

Recent Investment Performance

The Total Portfolio outperformed the policy benchmark for the quarter, 1- and 3-year periods by 0.1%. 1.6% and 0.1%, respectively, and the Median Public Fund for the quarter and 1-year periods by 1.7% and 4.3%, respectively. Over the 5-, 10-, 15-, 20- and 25-year periods, the portfolio trailed its benchmark by (0.1%), (0.3%), (1.0%), (0.6%) and (0.2%), respectively, and trailed the Median Public Fund by for the 3-, 5-, 10-, 15, 20-, and 25-year periods by (0.5%), (0.5%), (1.5%), (1.9%), (1.2%), and (0.8%), respectively. However, the portfolio earned higher risk adjusted returns, as measured by the Sharpe Ratio, than the Median Public Fund over all time periods measured.

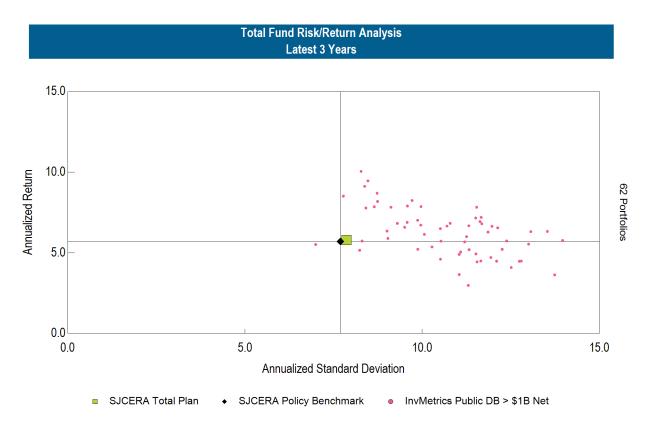
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Risk-Adjusted Return vs Peers							
	1 Yr	3 Yrs	5 Yrs	10 Yrs			
SJCERA Total Plan - Net	-3.1	5.8	6.1	6.1			
Risk Adjusted Median	-6.9	4.5	4.7	5.6			
Excess Return	3.7	1.3	1.4	0.5			





	Anlzd Return ¹	Anlzd Standard Deviation	Sharpe Ratio ²
SJCERA Total Plan	5.79%	7.86%	0.67
SJCERA Policy Benchmark	5.70%	7.69%	0.68
InvMetrics Public DB > \$1B Net Median ³	6.30%	10.92%	0.55

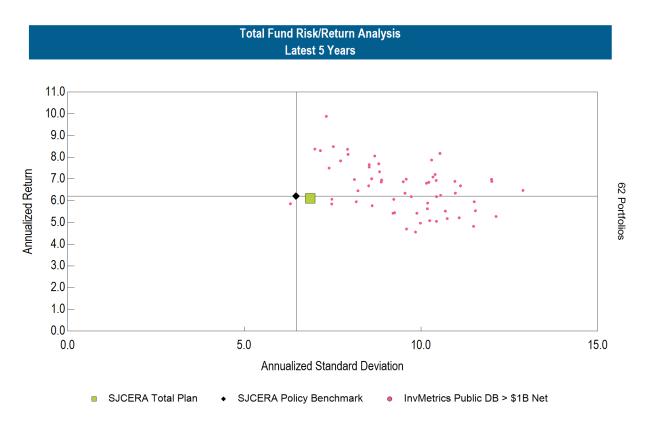
¹Returns are net of fees.

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²Computed as annualized return less the risk free rate, divided by the annualized standard deviation.

³Investment Metrics Total Fund Public Universe >\$1 Billion, net of fees.





	Anlzd Return ¹	Anlzd Standard Deviation	Sharpe Ratio ²
SJCERA Total Plan	6.11%	6.87%	0.74
SJCERA Policy Benchmark	6.21%	6.47%	0.80
InvMetrics Public DB > \$1B Net Median ³	6.58%	9.59%	0.57

¹Returns are net of fees.

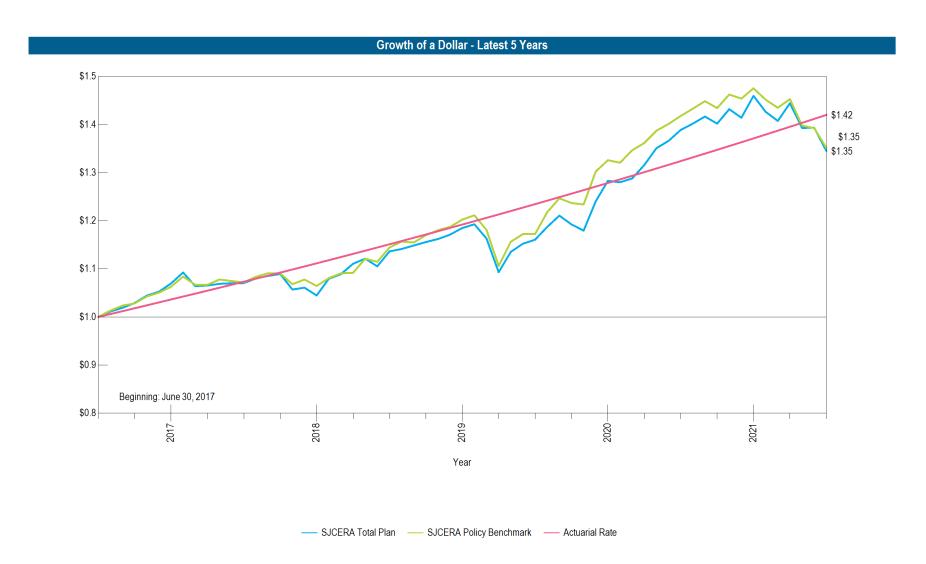
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²Computed as annualized return less the risk free rate, divided by the annualized standard deviation.

³Investment Metrics Total Fund Public Universe >\$1 Billion, net of fees.





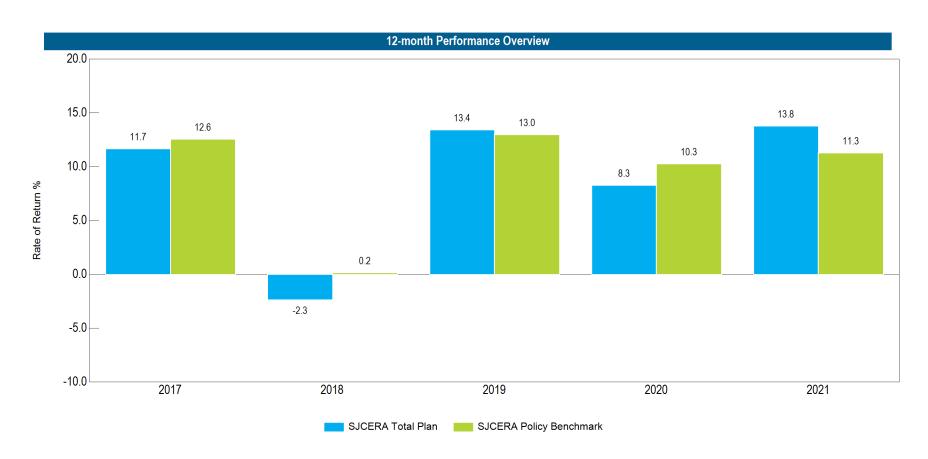


17.0% Actuarial Rate from 1/1/2020 to present. 7.25% Actuarial Rate from 1/1/2018 to 12/31/2019. 7.4% Actuarial Rate from 8/1/2016-12/31/2017. 7.5% Actuarial Rate from 1/1/2012-7/31/2016; previously 8.0%

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12-month absolute results have been positive over four of the last five calendar year periods, net of fees. The SJCERA Total Portfolio outperformed the policy target benchmark during one of these five periods, net of fees.

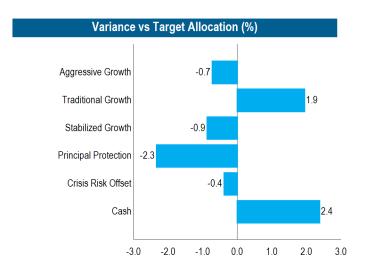
Portfolio Review



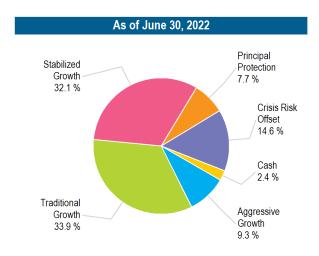
SJCERA Total Plan

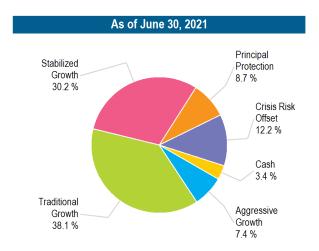
Asset Allocation | As of June 30, 2022

	Asset Allocation vs. Ta	rget		
	Current	Current	Policy	Difference*
Broad Growth	\$2,839,174,421	75.3%	75.0%	0.3%
Aggressive Growth	\$349,458,190	9.3%	10.0%	-0.7%
Traditional Growth	\$1,279,055,877	33.9%	32.0%	1.9%
Stabilized Growth	\$1,210,660,354	32.1%	33.0%	-0.9%
Diversified Growth	\$839,607,553	22.3%	25.0%	-2.7%
Principal Protection	\$288,814,356	7.7%	10.0%	-2.3%
Crisis Risk Offset	\$550,793,197	14.6%	15.0%	-0.4%
Cash ²	\$89,506,457	2.4%	0.0%	2.4%
Cash	\$89,506,457	2.4%	0.0%	2.4%
Total ¹	\$3,768,288,432	100.0%	100.0%	



^{*}Difference between Policy and Current Allocation





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¹Market values may not add up due to rounding.

²Cash asset allocation includes Parametric Overlay.



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Asset Class Performance Net-of-Fees | As of June 30, 2022

	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
SJCERA Total Plan	3,768,288,432	100.0	-6.9	-3.1	5.8	6.1	6.1
SJCERA Policy Benchmark ²			-7.0	-4.7	5.7	6.2	6.4
Broad Growth	2,839,174,421	75.3	-8.9	-4.1	6.6	7.1	7.2
Aggressive Growth Lag	349,458,190	9.3	4.3	35.8	20.4	17.6	13.4
Aggressive Growth Blend			1.2	19.2	16.7	12.4	10.7
Traditional Growth	1,279,055,877	33.9	-15.4	-15.2	4.3	5.7	8.2
MSCI ACWI IMI Net			-15.8	-16.5	6.6	7.5	9.3
Stabilized Growth	1,210,660,354	32.1	-4.6	0.7	5.8	6.0	4.1
SJCERA Stabilized Growth Benchmark ⁴			-2.1	1.7	4.2	4.7	5.6
Diversifying Strategies	839,607,553	22.3	1.3	2.8	3.2	3.5	3.9
Principal Protection	288,814,356	7.7	-3.9	-8.4	-1.0	1.1	2.8
Bloomberg US Aggregate TR			-4.7	-10.3	-0.9	0.9	1.5
Crisis Risk Offset Asset Class	550,793,197	14.6	5.2	11.9	6.2	5.2	5.8
CRO Benchmark ³			-1.5	1.5	4.5	4.5	4.0
Cash and Misc Asset Class	65,479,400	1.7	0.1	0.1	0.5	0.8	0.5
ICE BofA 91 Days T-Bills TR			0.1	0.2	0.6	1.1	0.6

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¹Market values may not add up due to rounding.

²Policy Benchmark composition is listed in the Appendix.

³30% ICE BofAML 3 month US T-Bill + 4%, 52% 50% BB High Yield/50% S&P Leverage Loans, 18% NCREIF ODCE + 1% Lag.

⁴(1/3) BB Long Duration Treasuries, (1/3) BTOP50 Index, (1/3) 5% Annual.



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Asset Class Performance Net-of-Fees | As of June 30, 2022

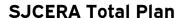
	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Aggressive Growth Lag ²	349,458,190	100.0	4.3	35.8	20.4	17.6	13.4
Aggressive Growth Blend			1.2	19.2	16.7	12.4	10.7
Blackrock Global Energy and Power Lag ²	26,595,930	7.6	2.3	10.6			
MSCI ACWI +2% Blend			-4.8	9.9			
Lightspeed Venture Partners Select V	4,191,123	1.2					
Morgan Creek III Lag ²	5,108,214	1.5	-3.4	-27.0	-17.8	-5.7	
MSCI ACWI +2% Blend			-4.8	9.9	16.6	12.3	
Morgan Creek V Lag ²	8,830,853	2.5	-0.2	19.7	14.4	13.8	
MSCI ACWI +2% Blend			-4.8	9.9	16.6	12.3	
Morgan Creek VI Lag ²	29,655,200	8.5	-0.7	41.1	24.7	22.0	
MSCI ACWI +2% Blend			-4.8	9.9	16.6	12.3	
Ocean Avenue II Lag²	41,562,241	11.9	3.7	48.4	37.7	33.8	
MSCI ACWI +2% Blend			-4.8	9.9	16.6	12.3	
Ocean Avenue III Lag²	54,261,818	15.5	9.1	53.9	29.2	35.8	
MSCI ACWI +2% Blend			-4.8	9.9	16.6	12.3	
Ocean Avenue IV Lag²	52,263,369	15.0	5.3	39.5			
MSCI ACWI +2% Lag²			-4.8	9.9			
Non-Core Real Assets Lag ^{2,3}	111,860,713	32.0	3.8	36.3	15.6	10.7	10.2
NCREIF ODCE $+1\%$ lag (blend) ²			7.4	28.5	11.4	10.0	11.0
Stellex Capital Partners II Lag ²	15,128,729	4.3	11.4				
MSCI ACWI +2% Lag²			-4.8				

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¹Market values may not add up due to rounding.

²Lagged 1 quarter.

³Trailing Non-Core real estate performance includes returns provided by prior real estate consultant from inception through Q419.





Private Appreciation | As of June 30, 2022

				Private A	ppreciation					
Investment Activity Statement for Since Inception by Fund										
	Vintage	Original Inv.	Gross	Management				Unrealized		Ending Market
Investment	Year	Commitment	Contributions	Fees	Return of Capital	Distributions	Net Income	Appreciation	Realized Gain	Value
Blackrock Global Energy & Power III	2019	50,000,000	27,993,631	2,506,568	1,425,739	3,622,007	1,188,545	1,677,952	783,548	26,595,930
Lightspeed Venture Partners Select V	2021	40,000,000	4,400,000	200,000	-	-	(208,877)	-	-	4,191,123
Morgan Creek III	2015	10,000,000	9,900,000	447,947	2,325,492	717,761	(1,242,905)	(691,379)	185,751	5,108,214
Morgan Creek V	2013	12,000,000	11,520,000	765,291	5,102,450	7,391,741	(1,643,226)	4,106,110	7,342,160	8,830,853
Morgan Creek VI	2015	20,000,000	18,200,000	3,686,536	6,864,868	3,768,335	(1,092,221)	18,750,369	4,430,255	29,655,200
Ocean Avenue II*	2013	40,000,000	36,000,000	5,605,868	5,875,189	44,860,969	23,314,806	16,836,115	16,147,478	41,562,241
Ocean Avenue III	2016	50,000,000	46,000,000	6,595,863	25,500,000	22,500,000	12,321,981	23,004,380	20,935,457	54,261,818
Ocean Avenue IV	2019	50,000,000	38,500,000	3,966,882	3,250,000	3,250,000	2,207,104	17,926,035	130,231	52,263,369
Stellex II	2020	50,000,000	14,658,007	922,080	-	-	(1,218,277)	1,688,999	-	15,128,729
Total			207,171,638	24,697,034	50,343,738	86,110,813	33,626,930	83,298,581	49,954,880	237,597,478

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^{*} Ocean II commitment started at \$30 Mil in Q213 and increased to \$40 Mil in Q114.



Manager Commentary

Aggressive Growth

During the latest three-month period ending June 30, 2022, all eight of SJCERA's aggressive growth portfolios with returns outperformed their MSCI ACWI +2% Blended benchmark. Non-core real assets also outperformed. Please note that returns data for this asset class is lagged one quarter and the benchmark returned -4.8% for the trailing quarter.

BlackRock Global Energy and Power, a recently added fund with a focus on infrastructure, outperformed its target benchmark over the quarter and 1-year periods by 7.1% and 0.7%, respectively.

Morgan Creek III outperformed its benchmark by 1.4% for quarter. The manager lagged its benchmark over the 1-, 3- and 5-year periods by (36.9%), (34.4%) and (18.0%), respectively.

Morgan Creek V outperformed its benchmark over the quarter, 1- and 5-year periods by 4.6%, 9.8% and 1.5%, respectively, but lagged for the trailing 3-year period by (2.2%).

Morgan Creek VI produced a quarterly return of negative (0.7%), outperforming its benchmark by 4.1%. It also led for the 1-, 3- and 5-year periods by 31.2%, 8.1% and 21.5%, respectively.

Ocean Avenue II, a Private Equity Buyout fund-of-funds manager, outperformed its benchmark for the quarter, 1-, 3- and 5-year periods by 8.5%, 37.5%, 21.1% and 21.5%, respectively.

Ocean Avenue III, a Private Equity Buyout fund-of-funds manager, led its benchmark for the quarter, 1-, 3- and 5-year periods by 13.9%, 44.0%, 12.6% and 23.5%, respectively.

Ocean Avenue IV outperformed its benchmark for the quarter and 1-year periods by 10.1% and 29.6%, respectively.

Non-Core Private Real Assets underperformed its NCREIF ODCE +1% benchmark over the quarter and 10-year periods by (3.6%) and (0.8%), respectively. However, the sub-asset class outperformed its benchmark over the 1-, 3- and 5-year time periods by 7.8%, 4.2% and 0.7%, respectively.

Stellex II, the newest manager in the asset class, outperformed its benchmark during the quarter by 16.2%.

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SJCERA Total Plan

Asset Class Performance Net-of-Fees | As of June 30, 2022

	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Traditional Growth	1,279,055,877	100.0	-15.4	-15.2	4.3	5.7	8.2
MSCI ACWI IMI Net			-15.8	-16.5	6.6	7.5	9.3
SJCERA Transition	2,999	0.0					
Northern Trust MSCI World	1,104,861,534	86.4	-15.9	-14.9			
MSCI World IMI Net USD			-16.3	<i>-15.3</i>			
PIMCO RAE Emerging Markets	70,717,316	5.5	-13.1	-19.3	1.1	2.6	3.6
MSCI Emerging Markets Gross			-11.3	-25.0	0.9	<i>2.5</i>	3.4
GQG Active Emerging Markets	57,908,646	4.5	-11.2	-22.6			
MSCI Emerging Markets			-11.4	-25.3			
Invesco REIT	45,565,381	3.6	-12.6	-4.2	4.0	6.0	7.6
FTSE NAREIT Equity REIT			-17.0	-6.3	4.0	5.3	7.4

¹Market values may not add up due to rounding.

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Manager Commentary

Traditional Growth

During the latest three-month period ending June 30, 2022, the traditional growth asset class outperformed its MSCI ACWI IMI benchmark by 0.2% and with three of the four managers outperforming their benchmarks.

Northern Trust MSCI World, the Plan's new Passive Global Equity manager, outperformed its benchmark over the past quarter by 0.4% but underperformed over the 1-year period by (0.4%).

PIMCO RAE Fundamental - Emerging, one of SJCERA's Active Emerging Markets Equity manager, underperformed its MSCI Emerging Markets Index benchmark for the quarter by (1.8%) but outperformed over the trailing 1-, 3-, 5- and 10-year time periods by 5.7%, 0.2%, 0.1% and 0.2%, respectively.

GQG, the Plan's new Active Emerging Markets Equity manager was opened during the third quarter of 2020 and outperformed its MSCI Emerging Markets benchmark by 0.2% for the quarter and 2.7% for the 1-year period.

Invesco, the Plan's Core US REIT manager, outperformed the FTSE NAREIT Equity REIT Index for the quarter, 1-, 5- and 10-year periods by 4.4%, 2.1%, 0.7% and 0.2%, respectively, and matched its benchmark's performance for the trailing 3-year period.

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Asset Class Performance Net-of-Fees | As of June 30, 2022

	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Stabilized Growth	1,210,660,354	100.0	-4.6	0.7	5.8	6.0	4.1
SJCERA Stabilized Growth Benchmark ²			-2.1	1.7	4.2	4.7	5.6
Risk Parity Asset Class	380,259,428	31.4	-15.3	-16.2	0.9	3.5	1.3
ICE BofAML 3mo US TBill+4%			1.1	4.2	4.7	5.2	4.7
Bridgewater All Weather	190,102,200	15.7	-15.3	-14.1	1.3	3.5	3.4
Bridgewater All Weather (blend)			1.1	4.2	4.7	5.2	5.4
PanAgora Diversified Risk Multi Asset	190,157,228	15.7	-15.4	-18.2	0.6	3.5	
ICE BofAML 3mo US TBill+4%			1.1	4.2	4.7	5.2	
Liquid Credit	215,337,871	17.8	-6.4	-9.2	-0.3	1.4	2.4
50% BB US HY/50% S&P LSTA Lev Loan			-7.1	-7.9	1.2	2.5	4.1
Neuberger Berman	93,050,922	7.7	-8.2	-12.6	-0.9		
33% ICEBofAMLUSHY /33%JPMEMBI Global Div /33% S&P LSTALevLoan			-8.5	-12.3	-1.0		
Stone Harbor Absolute Return	122,286,949	10.1	-5.1	-6.4	0.3	1.5	2.4
ICE BofA-ML LIBOR			0.1	0.1	0.8	1.3	0.9
Private Credit Lag	375,926,495	31.1	1.6	9.1	4.8	3.9	5.0
Custom Credit Benchmark			<i>-2.5</i>	1.3	4.4	4.4	5.0
Blackrock Direct Lending Lag	79,782,155	6.6	0.9	6.2			
CPI + 6% BLK Blend			0.6	10.6			
Crestline Opportunity II Lag	17,738,175	1.5	-1.2	6.9	2.1	2.7	
Credit Blend S&P/LSTA Lev Loan +3%			0.6	10.6	9.0	8.8	
Davidson Kempner Long-Term Distressed Opportunities Fund V, L.P. Lag	49,020,155	4.0	2.9	14.3			
Credit Blend S&P/LSTA Lev Loan +3%			0.6	10.6			

¹Market values may not add up due to rounding.

²30% ICE BofAML 3 month US T-Bill + 4%, 52% 50% BB High Yield/50% S&P Leverage Loans, 18% NCREIF ODCE +1% Lag.



MEKETA

Asset Class Performance Net-of-Fees | As of June 30, 2022

	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
HPS European Asset Value II, LP Lag	32,790,932	2.7	3.2	7.8			
Credit Blend S&P/LSTA Lev Loan +3%			0.6	10.6			
Medley Opportunity II Lag	4,378,784	0.4	0.0	-12.7	-11.4	-10.1	
Credit Blend S&P/LSTA Lev Loan +3%			0.6	10.6	9.0	8.8	
Mesa West IV Lag	25,277,225	2.1	0.7	8.1	7.8	8.2	
Credit Blend S&P/LSTA Lev Loan +3%			0.6	10.6	9.0	8.8	
Oaktree Middle-Market Direct Lending Lag	31,237,534	2.6	3.7	16.9	18.3		
CPI + 6% Oaktree Blend			0.6	10.6	11.2		
Raven Opportunity II Lag	5,440,481	0.4	-1.6	208.2	37.2	25.5	
Credit Blend S&P/LSTA Lev Loan +3%			0.6	10.6	9.0	8.8	
Raven Opportunity III Lag	54,263,543	4.5	1.8	14.8	8.1	8.8	
Credit Blend S&P/LSTA Lev Loan +3%			0.6	10.6	9.0	8.8	
White Oak Summit Peer Lag	31,761,398	2.6	0.2	-0.9	3.4	5.1	
Credit Blend S&P/LSTA Lev Loan +3%			0.6	10.6	9.0	8.8	
White Oak Yield Spectrum Master V Lag	44,236,114	3.7	1.5	3.2			
Credit Blend S&P/LSTA Lev Loan +3%			0.6	10.6			
Private Core Real Assets Lag	239,136,560	19.8	9.2	42.8	19.1	15.9	15.4
NCREIF ODCE +1% lag (blend) ²			7.4	<i>28.5</i>	11.4	10.0	11.0

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¹Market values may not add up due to rounding.

²NCREIF ODCE Net + 1% 10/1/2012-present. NCREIF Property Index previously.



Manager Commentary

Stabilized Growth

During the latest three-month period ending June 30, 2022, nine of SJCERA's sixteen Stabilized Growth managers outperformed their benchmarks while the other seven underperformed. Several managers in this asset class are in the process of investing capital and may underperform as assets are invested (typically known as the J-curve effect). Also, private core real assets outperformed its benchmark for the quarter.

Bridgewater All Weather, one of the Plan's Risk Parity managers, underperformed its benchmark over all time periods shown. For the quarter, 1-, 3-, 5- and 10-year periods it lagged by (16.4%), (16.3%), (3.4%), (1.7%) and (2.0%), respectively.

PanAgora DRMA, one of the Plan's Risk Parity managers, underperformed its T-Bill +4% benchmark over the quarter, 1-, 3- and 5-year time periods by (16.5%), (22.4%), (4.1%) and (1.7%), respectively.

Neuberger Berman, one of the Plan's Liquid Credit managers, outperformed its benchmark for the quarter and 3-year time periods by 0.3% and 0.1%, respectively, but underperformed for the trailing 1-year period by (0.3%).

Stone Harbor, the Plan's Absolute Return Fixed Income manager, underperformed its ICE BofAML LIBOR index over the quarter, 1- and 3-year periods by (5.2%), (6.5%) and (0.5%), respectively, but outperformed over the 5- and 10-year periods by 0.2% and 1.5%, respectively.

BlackRock Direct Lending, one of the Plan's newer Private Credit managers, outperformed its CPI +6% benchmark for the quarter by 0.3% but trailed over the 1-year period by (4.4%).

Crestline Opportunity II, the Plan's Credit, Niche Alternatives and Hedge Fund Secondaries manager, trailed its benchmark over the quarter, 1-, 3- and 5-year periods by (1.8%), (2.7%), (6.9%) and (6.1%), respectively.

Davidson Kempner, the Plan's newest Private Credit manager, was opened during the fourth quarter of 2020 and outperformed its CPI +6% benchmark by 2.3% and 3.7% for the trailing quarter and 1-year periods, respectively.

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Manager Commentary

Stabilized Growth (Continued)

HPS EU, one of the Plan's newer Direct Lending managers, was opened during the third quarter of 2020 and outperformed its CPI +6% benchmark for the quarter by 2.6% but trailed for the 1-year period by (2.8%).

Medley Opportunity II, one of the Plan's Direct Lending managers, produced a flat estimated quarterly return, underperforming its CPI +6% annual return benchmark by (0.6%). It also lagged its benchmark over the 1-, 3- and 5-year time periods by (23.3%), (20.4%) and (18.9%), respectively.

Mesa West RE Income IV, one of the Plan's Commercial Mortgage managers, outperformed its CPI +6% benchmark by 0.1% for the quarter but lagged by (2.5%), (1.2%) and (0.6%) over the quarter, 1- and 3-year periods, respectively.

Oaktree, a Middle-Market Direct Lending manager, outperformed its MSCI ACWI +2% Blended benchmark for the quarter, 1- and 3-year trailing time periods by 2.1%, 6.3% and 7.1%, respectively.

Raven Capital II, one of the Plan's Direct Lending managers, lagged its benchmark for the quarter by (1.0%) but outperformed over the 1-, 3- and 5-year time periods by 197.6%, 28.2% and 16.7%, respectively.

Raven Capital III outperformed its CPI +6% annual target for the quarter and 1-year periods by 1.2% and 4.2%, respectively, but underperformed over the 3-year trailing period by (0.9%) and matched benchmark performance over the trailing 5-year period.

White Oak Summit Peer, one of the Plan's Direct Lending managers, underperformed its CPI +6% index over the trailing quarter, 1-, 3- and 5-year time periods by (0.4%), (11.5%), (5.6%) and (3.7%), respectively.

White Oak Yield Spectrum Master V led its CPI +6% benchmark over the quarter by 0.9% but underperformed for the 1-year period by (7.4%).

Private Core Private Real Estate, investing in Core Real Assets, outperformed its NCREIF ODCE +1% benchmark over the trailing quarter, 1-, 3-, 5- and 10-year time periods by 1.8%, 14.3%, 7.7%, 5.9% and 4.4%, respectively.

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Asset Class Performance Net-of-Fees | As of June 30, 2022

	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Principal Protection	288,814,356	100.0	-3.9	-8.4	-1.0	1.1	2.8
Bloomberg US Aggregate TR			-4.7	-10.3	-0.9	0.9	1.5
Dodge & Cox Fixed Income	195,834,615	67.8	-4.7	-10.0	0.3	1.9	2.8
Bloomberg US Aggregate TR			-4.7	-10.3	-0.9	0.9	1.5
DoubleLine	25,209	0.0	0.1	-2.2	1.5	2.5	4.1
Bloomberg US Aggregate TR			-4.7	-10.3	-0.9	0.9	1.5
Loomis Sayles	92,954,532	32.2	-4.4				
Bloomberg US Aggregate TR			-4.7				

¹Market values may not add up due to rounding.

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Manager Commentary

Principal Protection

During the latest three-month period ending June 30, 2022, two of SJCERA's Principal Protection managers outperformed the Bloomberg US Aggregate Index benchmark and the third matched the Bloomberg US Agg for the quarter.

Dodge & Cox, the Plan's Core Fixed Income manager, earned a negative quarterly return of (4.7%), matching the US Agg. It led its benchmark by 0.3%, 1.2%, 1.0% and 1.3% for the trailing 1-, 3-, 5- and 10-year periods, respectively.

DoubleLine, the Plan's Mortgage-Backed Securities manager, provided a quarterly return of 0.1%, outperforming its benchmark by 4.8%. The manager also outperformed its benchmark over the trailing 1-, 3-, 5- and 10-year time periods by 8.1%, 2.4%, 1.6% and 2.6%, respectively.

Loomis Sayles, the Plan's newest Principal Protection manager, was funded in Q1 2022 and outperformed the US Agg during Q2 by 0.3%.

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MEKETA

Asset Class Performance Net-of-Fees | As of June 30, 2022

	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Crisis Risk Offset Asset Class	550,793,197	100.0	5.2	11.9	6.2	5.2	5.8
CRO Benchmark ²			-1.5	1.5	4.5	4.5	4.0
Long Duration	123,910,812	22.5	-11.4	-18.2	-3.0	0.3	
Bloomberg US Treasury Long TR			-11.9	-18.5	-2.9	0.5	
Dodge & Cox Long Duration	123,910,812	22.5	-11.4	-18.2	-3.0	0.3	
Bloomberg US Treasury Long TR			-11.9	-18.5	-2.9	0.5	
Systematic Trend Following	249,113,064	45.2	10.0	30.2	16.5	9.2	8.6
BTOP 50 (blend)			6.7	20.8	10.9	7.4	4.8
Graham Tactical Trend	122,231,102	22.2	11.2	32.5	15.1	9.5	
SG Trend			9.6	31.0	15.0	10.5	
Mount Lucas	126,881,962	23.0	8.8	28.0	17.7	8.8	7.7
BTOP 50 (blend)			6.7	20.8	10.9	7.4	4.8
Alternative Risk Premium	177,769,322	32.3	14.4	19.8	0.9	2.7	3.2
5% Annual (blend)			1.2	5.0	5.0	5.0	7.4
AQR Style Premia	52,906,269	9.6	12.4	31.9	3.3	-0.6	
5% Annual			1.2	5.0	5.0	5.0	
Lombard Odier	58,085,676	10.5	3.7	-3.1	-4.7		
5% Annual			1.2	5.0	5.0		
P/E Diversified Global Macro	66,777,377	12.1	31.1	49.6	3.0	4.2	
5% Annual			1.2	5.0	5.0	5.0	

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¹Market values may not add up due to rounding.

²(1/3) BB Long Duration Treasuries, (1/3) BTOP50 Index, (1/3) 5% Annual.



Manager Commentary

Crisis Risk Offset

During the latest three-month period ending June 30, 2022, all six of SJCERA's Crisis Risk Offset managers outperformed their respective benchmarks.

Dodge & Cox Long Duration produced a negative quarterly return of (11.4%), outperforming the Bloomberg US Long Duration Treasuries by 0.5%. The manager also outperformed its benchmark over the 1-year period by 0.3% It lagged its benchmark for the 3- and 5-year periods by (0.1%) and (0.2%), respectively.

Graham, one of the Plan's Systematic Trend Following managers, outperformed the SG Trend Index for the quarter, 1- and 3-year periods by 1.6%, 1.5% and 0.1%, respectively, but underperformed for the trailing 5-year period by (1.0%).

Mount Lucas, one of the Plan's Systematic Trend Following managers, outperformed the Barclays BTOP 50 Index for the quarter, 1-, 3-, 5- and 10-year periods by 2.1%, 7.2%, 6.8%, 1.4% and 3.9%, respectively.

AQR, one of the Plan's Alternative Risk Premium managers, posted positive returns and outperformed its 5% Annual target for the quarter and 1-year periods by 11.2% and 26.9%, respectively. It underperformed its benchmark for the trailing 3- and 5-year periods by (1.7%) and (5.6%), respectively.

Lombard Odier, an Alternative Risk Premium manager, outperformed its 5% Annual target for the quarter by 2.5% but earned negative 1- and 3-year returns and underperformed its benchmark by (8.1%) and (9.7%), respectively.

P/E Diversified, one of the Plan's Alternative Risk Premium managers, outperformed its 5% Annual target for the quarter and 1-year periods by 30.9% and 44.6% but underperformed for the trailing 3- and 5-year periods by (2.0%) and (0.8%), respectively.

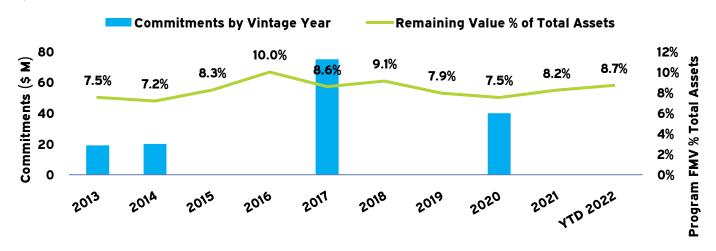
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Real Estate Program

June 30, 2022

Introduction

The Retirement Association's target allocation towards real estate assets is 10-12%. As of March 31, 2022, the Retirement Association had invested with eighteen real estate managers (three private open-end and fifteen private closed-end). The aggregate reported value of the Retirement Association's real estate investments was \$351.2 million at quarter-end.



Program Status

No. of Investments	18
Committed (\$ M)	501.6
Contributed (\$ M)	446.5
Distributed (\$ M)	363.8
Remaining Value (\$ M)	351.2

Performance Since Inception

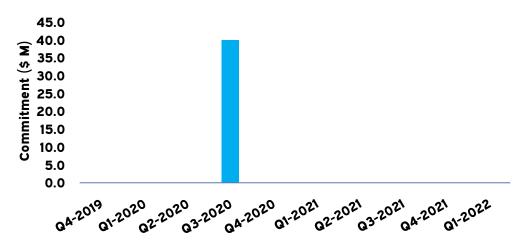
	Program
DPI	0.81x
TVPI	1.60x
IRR	8.2%



Recent Activity | As of March 31, 2022

Commitments

Recent Quarterly Commitments



Commitments This Quarter

			Amount
Fund	Strategy	Region	(M)

None to report.

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Fund

Prologis Logistics

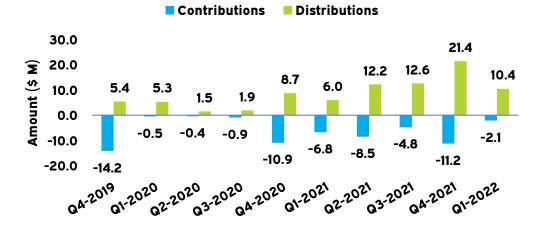
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San Joaquin County Employees' Retirement Association Real Estate Program

Recent Activity | As of March 31, 2022

Cash Flows

Recent Quarterly Cash Flows



Largest Contributions This Quarter

Core

Amount (\$M) Vintage Strategy Region Berkeley V 2020 Value-Added North America 1.50

Largest Distributions This Quarter

Fund	Vintage	Strategy	Region	Amount (\$M)
Greenfield VII	2013	Opportunistic	North America	3.96
Stockbridge RE III	2017	Value-Added	North America	3.84
Miller Global VI	2007	Opportunistic	North America	0.86

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0.62

North America



Recent Activity | As of March 31, 2022

Significant Events

- During the first quarter of 2022, Berkeley Partners Value Industrial Fund V completed three acquisitions, including a 77,040 square foot class B building in Carrollton, Texas, a 372,000 square foot class A industrial warehouse development in Lunenburg, Massachusetts, and a development site in San Antonio, Texas, resulting in the capital call of \$1.5 million for the Retirement Association. Fund V also disposed of 24 Wilson Way on February 17, 2022 for \$17.5 million, resulting in a 2.1x gross multiple at the property level.
- Greenfield Acquisition Partners VII sold the Inn of Sedona, a hospitality asset, in the first quarter, generating a 2.4x gross multiple and 24.9% gross IRR. Distributions during the quarter included gains from this sale, in addition to those related to dispositions from prior quarters.
- On February 1, 2022, Stockbridge Value Fund III sold TOP Kearny, a 214,436 square foot property in Santa Clarita, California, for a gross purchase price of \$58.5 million which produced a 2.0x gross multiple to the fund. In addition to sale proceeds from this transaction, distributions in the quarter also comprised operating cash flows.
- During the first quarter, Prologis Targeted US Logistics Fund's net asset value per unit increased to \$3,326.1, representing an increase of 12.7% from the prior quarter. The valuation increase was largely driven by unrealized gains on the portfolio's real estate investments resulting from the continued demand, low vacancy rates, and growing rents in the industrial market. USLF also completed one acquisition in the first quarter of an infill site in the New Jersey/New York market for \$15.0 million.
- In January 2022, AG Core Plus Realty Fund IV closed on the sale of Wells Portfolio, a collection of three Class-A office buildings in Newton, MA, generating \$18 million of profit on a \$23 million equity investment.

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Performance Analysis | As of March 31, 2022

By Strategy

						Remaining				
Group	Number	Committed (\$ M)	Contributed (\$ M)	Unfunded (\$ M)	Distributed (\$ M)	Value (\$ M)	Exposure (\$ M)	DPI (X)	TVPI (X)	IRR (%)
Core	3	120.5	125.3	0.0	29.9	239.1	239.1	0.24	2.15	9.6
Opportunistic	9	204.1	180.3	25.3	214.3	32.8	58.1	1.19	1.37	5.9
Value-Added	6	177.0	141.0	38.2	119.6	79.2	117.4	0.85	1.41	10.5
Total	18	501.6	446.5	63.5	363.8	351.2	414.7	0.81	1.60	8.2

By Vintage

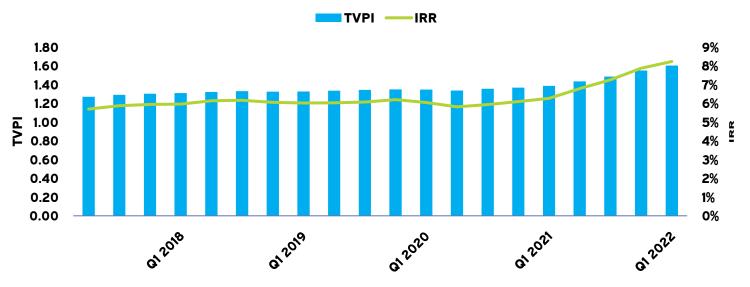
Group	Number	Committed (\$ M)	Contributed (\$ M)	Unfunded (\$ M)	Distributed (\$ M)	Remaining Value (\$ M)	Exposure (\$ M)	DPI (X)	TVPI (X)	IRR (%)
Open-end	3	120.5	125.3	0.0	29.9	239.1	239.1	0.24	2.15	9.6
2005	1	15.0	14.5	0.5	17.6	0.0	0.5	1.21	1.21	3.4
2006	1	30.0	30.0	0.0	20.3	1.5	1.5	0.68	0.73	-3.5
2007	4	96.0	84.0	12.0	115.8	6.1	18.1	1.38	1.45	7.4
2011	2	50.0	38.3	11.7	47.2	4.3	16.0	1.23	1.34	9.6
2012	2	36.0	33.9	2.9	48.8	0.2	3.1	1.44	1.45	12.5
2013	1	19.1	18.3	0.8	26.4	5.4	6.2	1.44	1.74	13.6
2014	1	20.0	19.0	1.8	12.8	13.9	15.6	0.67	1.40	8.9
2017	2	75.0	61.3	15.1	44.5	52.8	67.9	0.73	1.59	22.3
2020	1	40.0	22.0	18.7	0.6	27.9	46.5	0.03	1.29	NM
Total	18	501.6	446.5	63.5	363.8	351.2	414.7	0.81	1.60	8.2

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Performance Analysis | As of March 31, 2022

Since Inception Performance Over Time



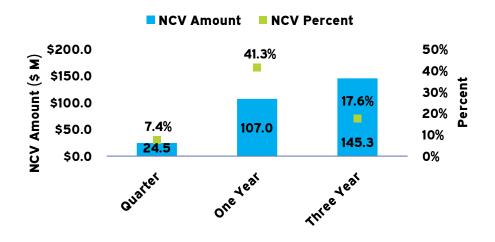
Horizon IRRs

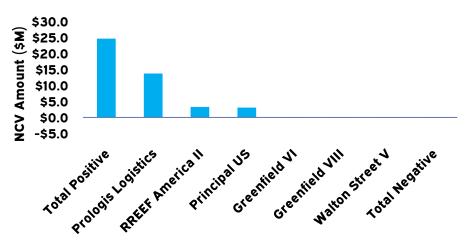
	1 Year (%)	3 Year (%)	5 Year (%)	10 Year (%)	Since Inception (%)
Aggregate Portfolio	40.7	17.5	13.3	12.5	8.2
Public Market Equivalent	32.2	11.2	10.0	9.5	9.4



Performance Analysis | As of March 31, 2022









Time Weighted Performance | As of March 31, 2022

	1 Q 22 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	Since Inception (%)	Inception Date
Private Real Estate	9.2	42.8	19.1	16.0	14.9	6.7	9/30/2007
RREEF America REIT II	5.4	28.1	11.6	9.8	NA	9.4	4/01/2016
Principal US Property	7.3	28.4	11.3	10.0	NA	9.8	10/09/2015
Prologis Targeted U.S.	11.8	57.9	27.6	23.5	19.2	9.5	9/30/2007

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Performance Analysis | As of March 31, 2022

Fund Performance: Sorted By Vintage And Strategy

			Committed	Contributed	Unfunded	Distributed	Remaining Value	TVPI	IRR
By Investment	Vintage	Strategy	(\$ M)	(\$ M)	(\$ M)	(\$ M)	(\$ M)	(x)	(%)
Principal US	Open-end	Core	25.0	25.0	0.0	0.0	45.2	1.81	9.8
Prologis Logistics	Open-end	Core	50.5	55.3	0.0	20.8	130.6	2.74	9.7
RREEF America II	Open-end	Core	45.0	45.0	0.0	9.2	63.4	1.61	9.2
Miller GLobal Fund V	2005	Opportunistic	15.0	14.5	0.5	17.6	0.0	1.21	3.4
Walton Street V	2006	Opportunistic	30.0	30.0	0.0	20.3	1.5	0.73	-3.5
Greenfield V	2007	Opportunistic	30.0	29.6	0.4	40.4	0.2	1.37	8.3
Miller Global VI	2007	Opportunistic	30.0	21.1	8.9	33.3	0.1	1.58	7.8
Walton Street VI	2007	Opportunistic	15.0	13.3	1.7	15.2	5.7	1.58	8.2
Colony Realty III	2007	Value-Added	21.0	20.0	1.0	26.9	0.0	1.35	5.3
Greenfield VI	2011	Opportunistic	20.0	19.2	0.8	26.2	0.0	1.37	9.6
Almanac Realty VI	2011	Value-Added	30.0	19.1	10.9	21.0	4.2	1.32	9.6
Miller Global VII	2012	Opportunistic	15.0	12.1	2.9	15.9	0.2	1.33	14.4
Colony Realty IV	2012	Value-Added	21.0	21.7	0.0	32.9	0.0	1.51	11.9
Greenfield VII	2013	Opportunistic	19.1	18.3	0.8	26.4	5.4	1.74	13.6
AG Core Plus IV	2014	Value-Added	20.0	19.0	1.8	12.8	13.9	1.40	8.9
Greenfield VIII	2017	Opportunistic	30.0	22.2	9.2	19.1	19.6	1.74	27.8
Stockbridge RE III	2017	Value-Added	45.0	39.1	5.9	25.4	33.2	1.50	19.0
Berkeley V	2020	Value-Added	40.0	22.0	18.7	0.6	27.9	1.29	NM
Total			501.6	446.5	63.5	363.8	351.2	1.60	8.2

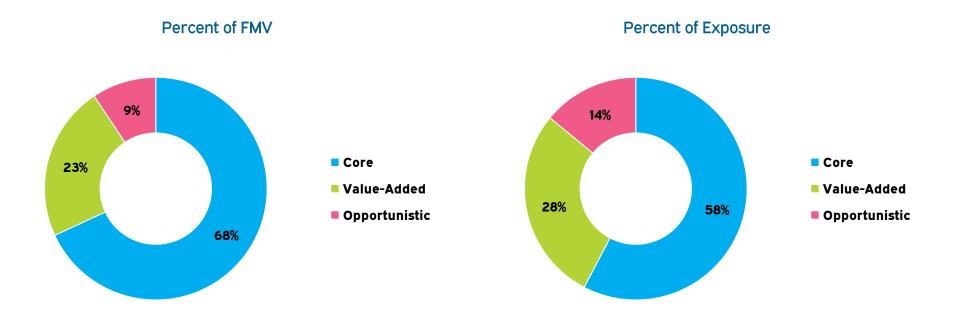
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San Joaquin County Employees' Retirement Association Real Estate Program

Fund Diversification | As of March 31, 2022

By Strategy

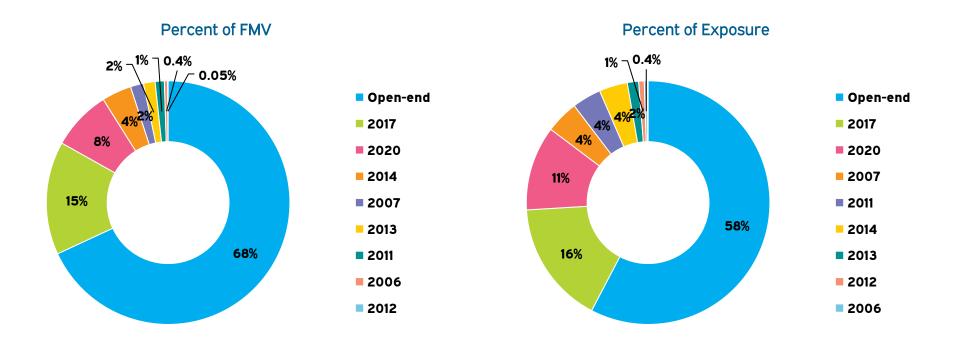




San Joaquin County Employees' Retirement Association Real Estate Program

Fund Diversification | As of March 31, 2022

By Vintage



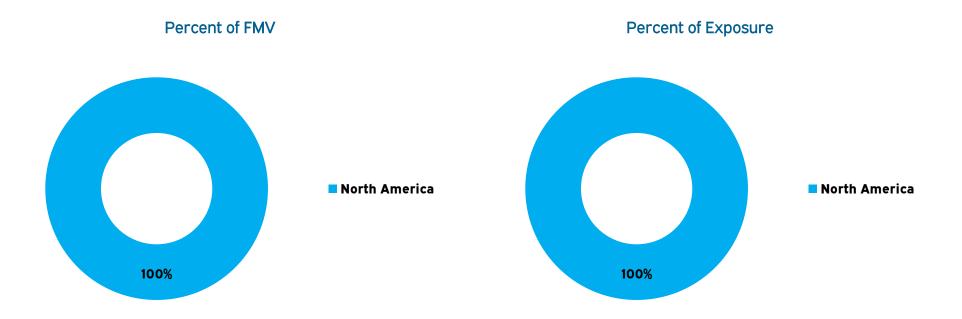
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San Joaquin County Employees' Retirement Association Real Estate Program

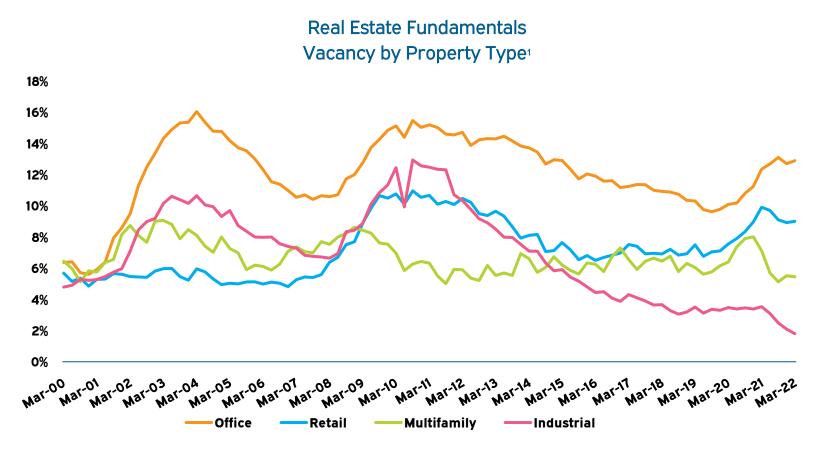
Fund Diversification | As of March 31, 2022

By Geographic Focus





Market & Industry Analysis | As of March 31, 2022



In the first quarter of 2022, vacancy rates increased for office and retail, while vacancy rates for multifamily and industrial decreased. Multifamily vacancies decreased slightly by 7 basis points in Q1 2022. Industrial vacancies set a new all-time low at 1.8%. Retail vacancies increased slightly by 9 basis points in Q1 2022. Office vacancies increased in Q1 2022 to 12.9%. Compared to one year ago, vacancy rates in multifamily decreased 167 basis points, industrial decreased 173 basis points, retail decreased 90 basis points., and office increased 54 basis points. Overall, the vacancy rate across all property types decreased 153 basis point from Q1 2021.

MEKETA INVESTMENT GROUP

¹ Source: NCREIF

Market & Industry Analysis | As of March 31, 2022



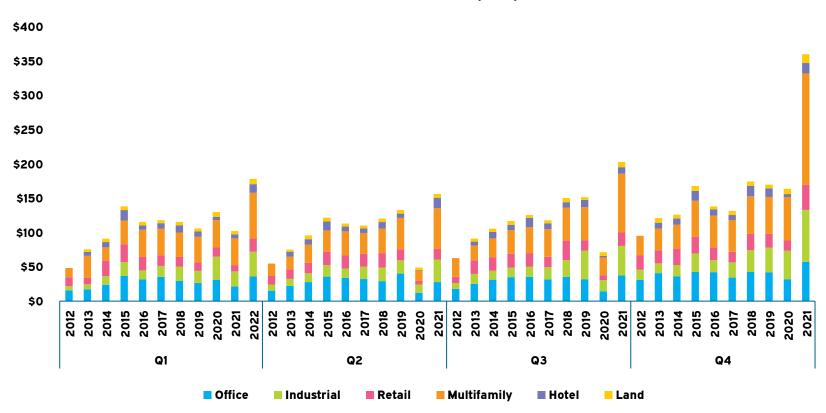
The trailing twelve-month rate of NOI growth decreased slightly in Q1 2022 to 10.5%. This growth rate continues to be supported by improved rent collections and the expiry of pandemic-related delinquencies/deferrals. Industrial NOI growth is trending above 11.0% for the trailing year ending Q1 2022. Office NOI growth has gone negative to -1.2% year-over-year, and Apartment NOI (a sector with "gross" rents, compared to "net" rents in other property types) experienced positive NOI growth at 23.5% year-over-year as occupancy levels and rental rate growth improved. Retail NOI growth has improved significantly from the previous four quarters, now at 15.6% year-over-year.

¹ Source: NCREIF



Market & Industry Analysis | As of March 31, 2022

Transaction Volume (\$bn)1



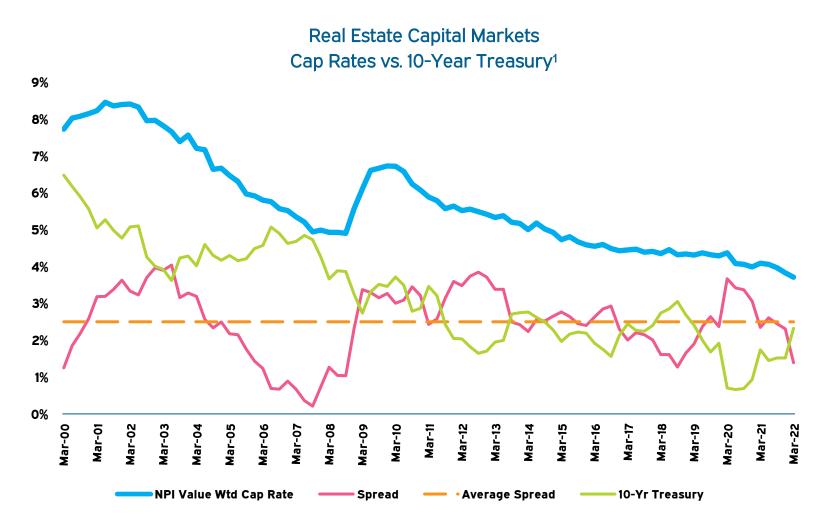
Private real estate transaction volume for properties valued over \$2.5 million for Q1 2022 was up significantly from Q1 2021 to \$178 billion, representing the highest transaction volume in the first quarter of a year since the Global Financial Crisis. Compared to a year ago, all property types saw major increases in transaction volume: office (+69%), industrial (+64%), retail (+111%), multifamily (+71%), hotel (+110%) and land (+57%). Multifamily and industrial properties made up the largest percentages of total transaction volume during the quarter, at 38% and 20%, respectively.

MEKETA INVESTMENT GROUP

¹ Source: PREA



Market & Industry Analysis | As of March 31, 2022



The NPI Value Weighted Cap Rate decreased 12 basis points in Q1 2022 to 3.7%. The 10-year Treasury yield increased by 80 basis points in Q1 2022 to 2.3%. The spread between cap rates and treasury yields (139 basis points) is now well below the long-term average spread of 251 basis points.

¹ Source: NCREIF and US Department of the Treasury



Market & Industry Analysis | As of March 31, 2022

Trailing Period Returns¹

As of March 31, 2022	1 Year	3 Years	5 Years	10 Years
NFI-ODCE (EW, net)	28.7%	11.1%	9.5%	10.2%
NFI-ODCE (VW, net)	27.3	10.3	8.9	9.9
NCREIF Property Index	21.9	9.6	8.5	9.6
NAREIT Equity REIT Index	23.6	11.7	10.6	10.5

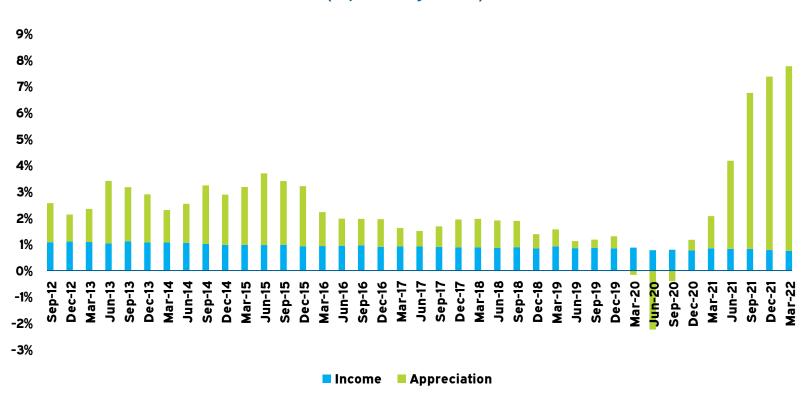
Private real estate indices were positive in Q1 2022 and continue to be positive over the 1-year, 3-year, 5-year, and 10-year time horizons. The NFI-ODCE Equal Weight Index posted another strong quarter in Q1 2022 and private core real estate outperformed the public index over the trailing one-year period. Public real estate performance in 2020 and into 2021 has been volatile, returning -5.3% in Q1 2022, after posting a 16.2% return in the prior quarter.

¹ Source: NCREIF



Market & Industry Analysis | As of March 31, 2022

ODCE Return Components ¹ (Equal Weight, Net)



The NFI-ODCE Equal Weight return for Q1 2022 was strong at 7.8%, beating the prior quarter's return and posting the highest quarterly return in the history of the index. The income component of the quarterly return has been fairly consistent around 0.7%, while the appreciation for the quarter was very high at 7.0%.

¹ Source: NCREIF



Endnotes | As of March 31, 2022

Below are details on specific terminology and calculation methodologies used throughout this report:

Committed	The original commitment amount made to a given fund. Some funds may be denominated in non-USD currencies, and such commitment amounts represent the sum of fund contributions translated to USD at their daily conversion rates plus the unfunded balance translated at the rate as of the date of this report.
Contributed	The amount of capital called by a fund manager against the commitment amount. Contributions may be used for new or follow-on investments, fees, and expenses, as outlined in each fund's limited partnership agreement. Some capital distributions from funds may reduce contributed capital balances. Some funds may be denominated in non-USD currencies, and such aggregate contributions represent the sum of each fund contribution translated to USD at its daily conversion rate.
Distributed	The amount of capital returned from a fund manager for returns of invested capital, profits, interest, and other investment related income. Some distributions may be subject to re-investment, as outlined in each fund's limited partnership agreement. Some funds may be denominated in non-USD currencies, and such aggregate distributions represent the sum of each fund distribution translated to USD at its daily conversion rate.
DPI	Acronym for "Distributed-to-Paid-In", which is a performance measurement for Private Market investments. The performance calculation equals Distributed divided by Contributed. DPIs for funds and groupings of funds are net of all fund fees and expenses as reported to by fund managers to Meketa.
Exposure	Represents the sum of the investor's Unfunded and Remaining Value.
IRR	Acronym for "Internal Rate of Return", which is a performance measurement for Private Market investments. IRRs are calculated by Meketa based on daily cash flows and Remaining Values as of the date of this report. IRRs for funds and groupings of funds are net of all fund fees and expenses as reported by fund managers to Meketa.
NCV	Acronym for "Net Change in Value", which is a performance measurement for Private Market investments. The performance calculation equals the appreciation or depreciation over a time period neutralized for the impact of cash flows that occurred during the time period.
NM	Acronym for "Not Meaningful", which indicates that a performance calculation is based on data over too short a timeframe to yet be meaningful or not yet possible due to inadequate data. Meketa begins reporting IRR calculations for investments once they have reached more than two years since first capital call. NM is also used within this report in uncommon cases where the manager has reported a negative Remaining Value for an investment.

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Endnotes | As of March 31, 2022

Public	Mark	(et
Equiva	lent	("PME")

A calculation methodology that seeks to compare the performance of a portfolio of private market investments with public market indices. The figures presented in this report are based on the PME+ framework, which represents a net IRR value based on the actual timing and size of the private market program's daily cash flows and the daily appreciation or depreciation of an equivalent public market index. Meketa utilizes the following indices for private market program PME+ calculations:

Infrastructure: Dow Jones Brookfield Global Infrastructure Index

Natural Resources: S&P Global Natural Resources Index

Private Debt: Barclays Capital U.S. Corporate High Yield Bond Index

Private Equity: MSCI ACWI Investable Market Index

Real Assets (excluding Real Estate): Equal blend of Dow Jones Brookfield Global Infrastructure Index and S&P Global

Natural Resources Index

Real Assets (including Real Estate): Equal blend of Dow Jones Brookfield Global Infrastructure Index, S&P Global

Natural Resources Index, and Dow Jones U.S. Select Real Estate Securities Index

Real Estate: Dow Jones U.S. Select Real Estate Securities Index

Remaining Value

The investor's value as reported by a fund manager on the investor's capital account statement. All investor values in this report are as of the date of this report, unless otherwise noted. Some funds may be denominated in non-USD currencies, and such remaining values represent the fund's local currency value translated to USD at the rate as of the date of this report.

TVPI

Acronym for "Total Value-to-Paid-In", which is a performance measurement for Private Market investments. The performance calculations represents Distributed plus Remaining Value, then divided by Contributed. TVPIs for funds and groupings of funds are net of all fund fees and expenses as reported to by fund managers to Meketa.

Unfunded

The remaining balance of capital that a fund manager has yet to call against a commitment amount. Meketa updates unfunded balances for funds to reflect all information provided by fund managers provided in their cash flow notices. Some funds may be denominated in non-USD currencies, and such unfunded balances represent the fund's local currency unfunded balance translated to USD at the rate as of the date of this report.

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Capital Markets Outlook & Risk Metrics As of June 30, 2022



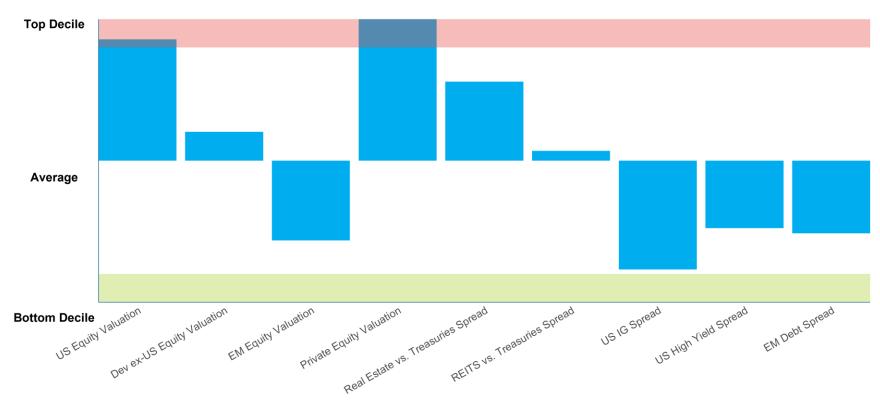
Capital Markets Outlook

Markets

- → June capped off the worst first half performance for US equity markets since the 1970s, as markets reassessed future growth expectations in response to the Fed's 75 bp rate hike in June.
- → In the US, small and mid-cap companies lagged large and mega cap stocks in the month of June and value lagged growth stocks.
- → While all major equity indices suffered negative returns, emerging markets and China proved to be slightly more resilient than US and non-US developed markets.
- → After a strong performance in early 2022, commodities, infrastructure, and public natural resources also suffered negative returns in June.
- → Inflation re-accelerated in the US and Europe to new highs in June, reigniting concerns that policy officials may prioritize inflation fighting at the expense of economic growth. Markets repriced inflation expectations higher, and bonds suffered losses across all categories.
- → While China continues to ease COVID lockdowns and engage in fiscal and monetary stimulus, concerns persist that China's 2022 GDP will be substantially lower than 2021.





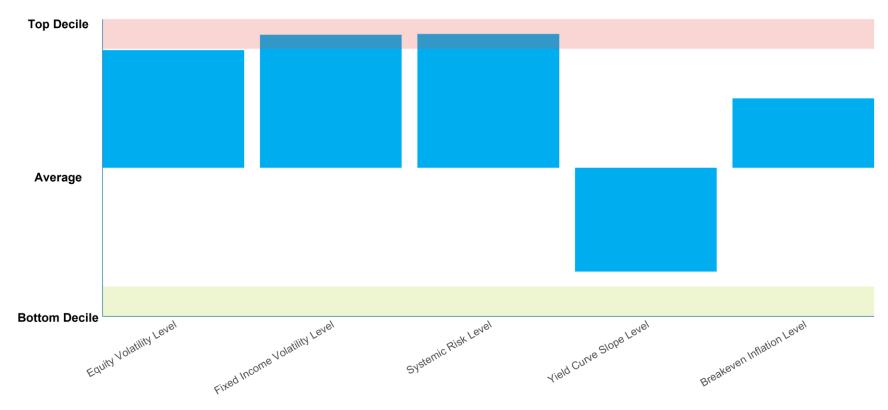


→ Dashboard (1) summarizes the current state of the different valuation metrics per asset class relative to their own history.

¹ With the exception of Private Equity Valuation, that is YTD as of December 31, 2021.







ightarrow Dashboard (2) shows how the current level of each indicator compares to its respective history.



Market Sentiment Indicator (All History) (As of June 30, 2022)



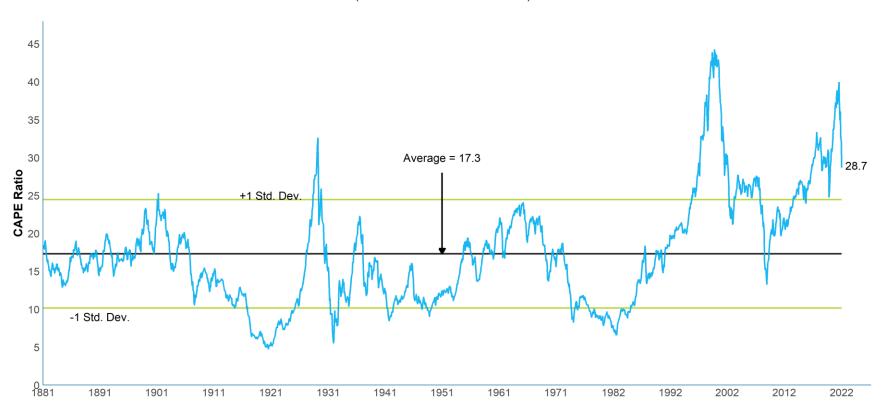


Market Sentiment Indicator (Last Three Years) (As of June 30, 2022)





US Equity Cyclically Adjusted P/E¹ (As of June 30, 2022)

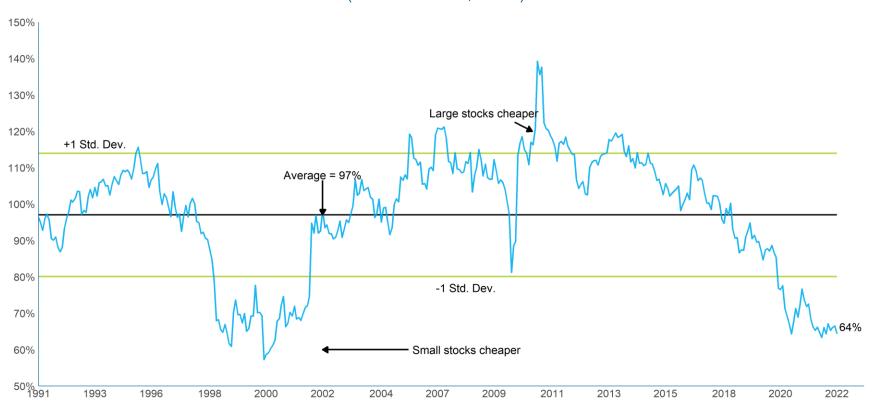


→ This chart details one valuation metric for US equities. A higher (lower) figure indicates more expensive (cheaper) valuation relative to history.

¹ US Equity Cyclically Adjusted P/E on S&P 500 Index. Source: Robert Shiller, Yale University, and Meketa Investment Group.



Small Cap P/E vs. Large Cap P/E¹ (As of June 30, 2022)

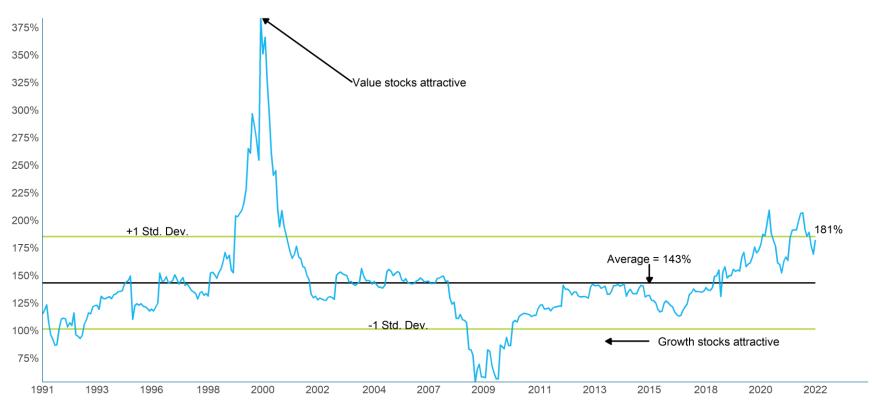


→ This chart compares the relative attractiveness of small cap US equities vs. large cap US equities on a valuation basis. A higher (lower) figure indicates that large cap (small cap) is more attractive.

¹ Small Cap P/E (Russell 2000 Index) vs. Large Cap P/E (Russell 1000 Index) - Source: Russell Investments. Earnings figures represent 12-month "as reported" earnings.







→ This chart compares the relative attractiveness of US growth equities vs. US value equities on a valuation basis. A higher (lower) figure indicates that value (growth) is more attractive.

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¹ Growth P/E (Russell 3000 Growth Index) vs. Value (Russell 3000 Value Index) P/E - Source: Bloomberg, MSCI, and Meketa Investment Group. Earnings figures represent 12-month "as reported" earnings.



Developed International Equity Cyclically Adjusted P/E¹ (As of June 30, 2022)



→ This chart details one valuation metric for developed international equities. A higher (lower) figure indicates more expensive (cheaper) valuation relative to history.

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Developed International Equity (MSCI EAFE Index) Cyclically Adjusted P/E – Source: MSCI and Bloomberg. Earnings figures represent the average of monthly "as reported" earnings over the previous ten years.



Emerging Market Equity Cyclically Adjusted P/E¹ (As of June 30, 2022)



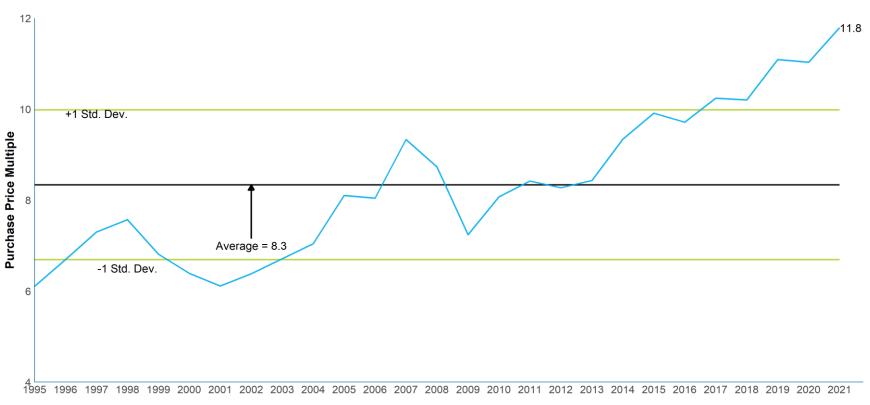
→ This chart details one valuation metric for emerging markets equities. A higher (lower) figure indicates more expensive (cheaper) valuation relative to history.

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¹ Emerging Market Equity (MSCI Emerging Markets Index) Cyclically Adjusted P/E - Source: MSCI and Bloomberg. Earnings figures represent the average of monthly "as reported" earnings over the previous ten years.







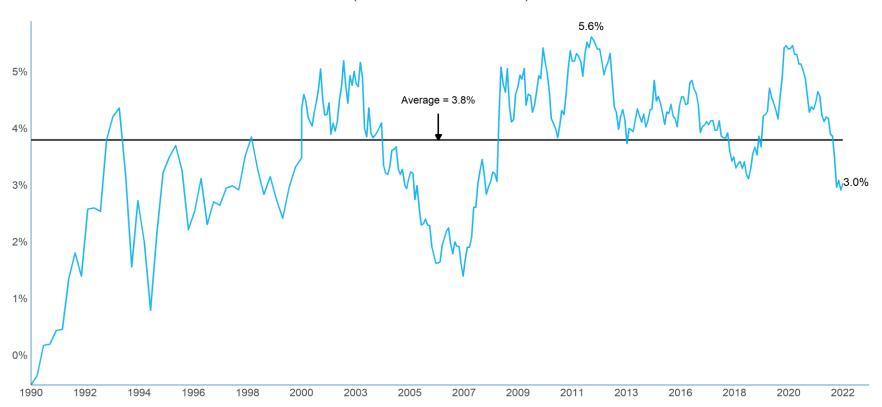
→ This chart details one valuation metric for the private equity market. A higher (lower) figure indicates more expensive (cheaper) valuation relative to history.

¹ Private Equity Multiples – Source: S&P LCD Average EBITDA Multiples Paid in All LBOs.

² Annual Data, as of December 31, 2021



Core Real Estate Spread vs. Ten-Year Treasury¹ (As of June 30, 2022)



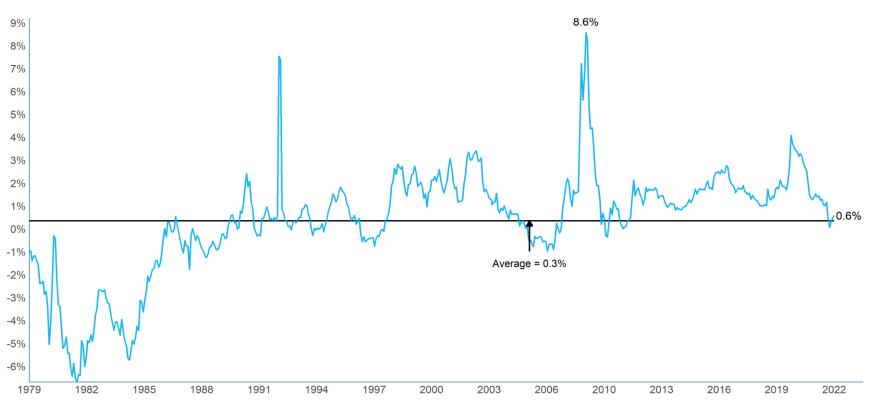
→ This chart details one valuation metric for the private core real estate market. A higher (lower) figure indicates cheaper (more expensive) valuation.

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¹ Core Real Estate Spread vs. Ten-Year Treasury – Source: Real Capital Analytics, US Treasury, Bloomberg, and Meketa Investment Group. Core Real Estate is proxied by weighted sector transaction-based indices from Real Capital Analytics and Meketa Investment Group.





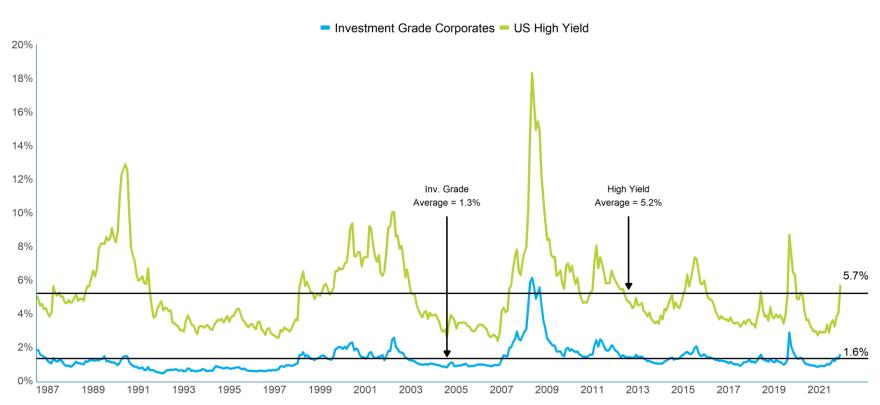


→ This chart details one valuation metric for the public REITs market. A higher (lower) figure indicates cheaper (more expensive) valuation.

¹ REITs Dividend Yield Spread vs. Ten-Year Treasury – Source: NAREIT, US Treasury. REITs are proxied by the yield for the NAREIT Equity Index.







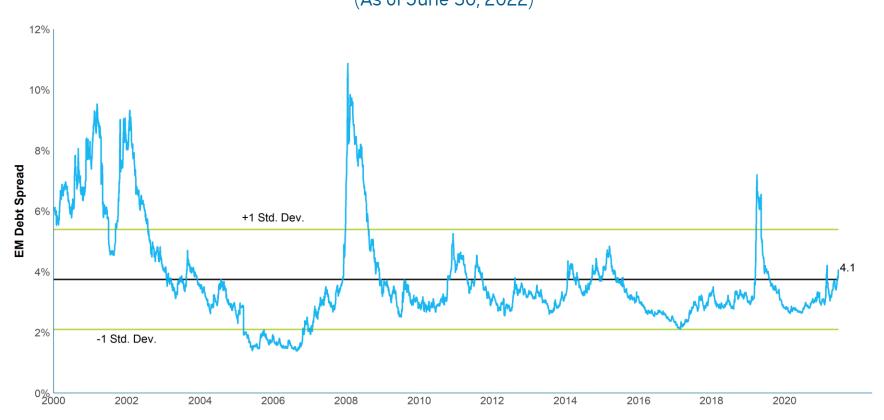
→ This chart details one valuation metric for the US credit markets. A higher (lower) figure indicates cheaper (more expensive) valuation relative to history.

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¹ Credit Spreads – Source: Bloomberg. High Yield is proxied by the Bloomberg High Yield Index and Investment Grade Corporates are proxied by the Bloomberg US Corporate Investment Grade Index. Spread is calculated as the difference between the Yield to Worst of the respective index and the 10-Year US Treasury yield.



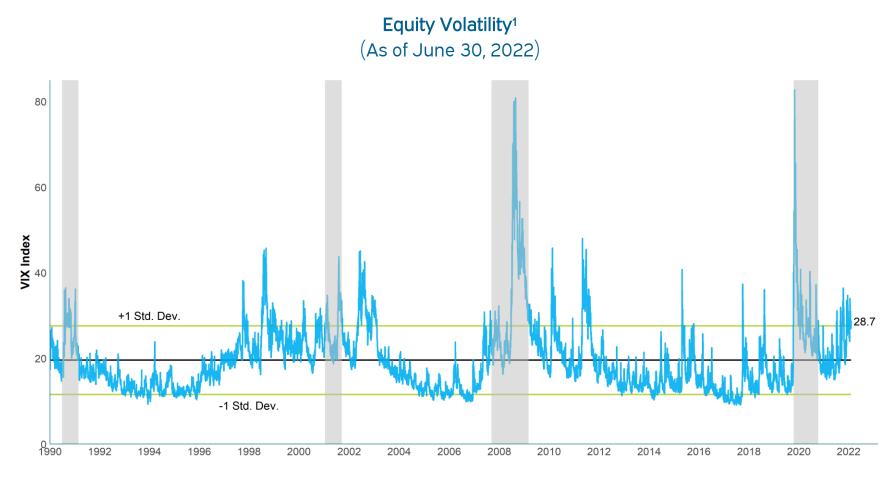




→ This chart details one valuation metric for the EM debt markets. A higher (lower) figure indicates cheaper (more expensive) valuation relative to history.

¹ EM Spreads – Source: Bloomberg. Option Adjusted Spread (OAS) for the Bloomberg EM USD Aggregate Index.

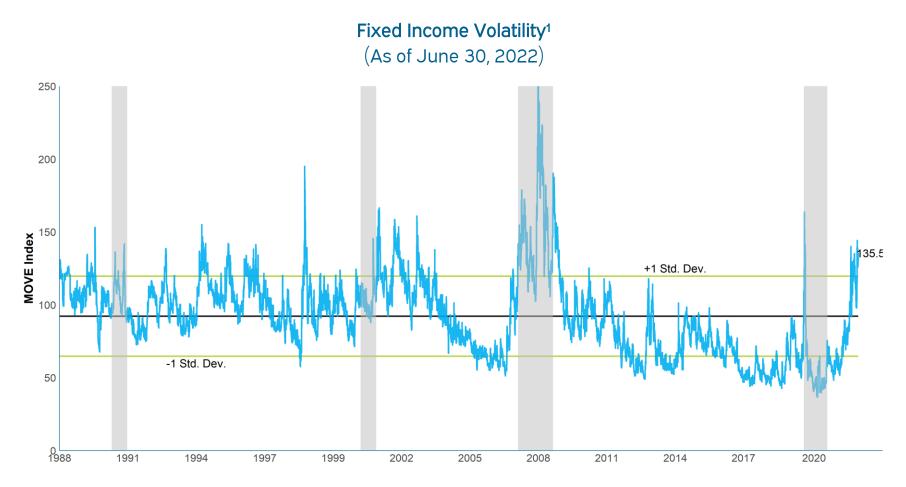




→ This chart details historical implied equity market volatility. This metric tends to increase during times of stress/fear and while declining during more benign periods.

¹ Equity Volatility – Source: Bloomberg, and Meketa Investment Group. Equity Volatility proxied by VIX Index, a Measure of implied option volatility for US equity markets.





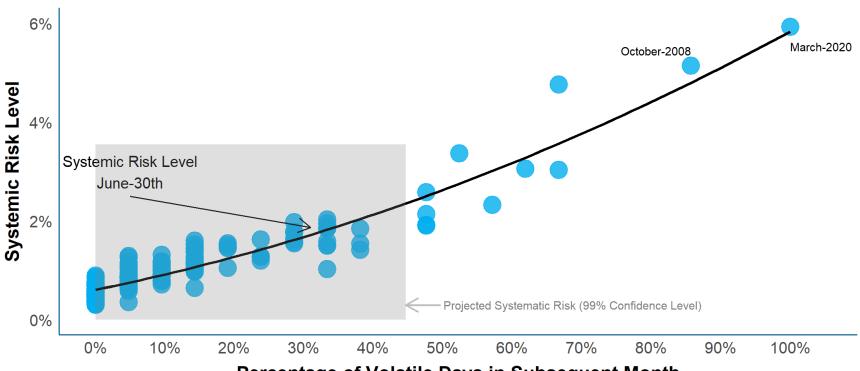
→ This chart details historical implied fixed income market volatility. This metric tends to increase during times of stress/fear and while declining during more benign periods.

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¹ Fixed Income Volatility - Source: Bloomberg, and Meketa Investment Group. Fixed Income Volatility proxied by MOVE Index, a Measure of implied option volatility for US Treasury markets.



Systemic Risk and Volatile Market Days¹ (As of June 30, 2022)



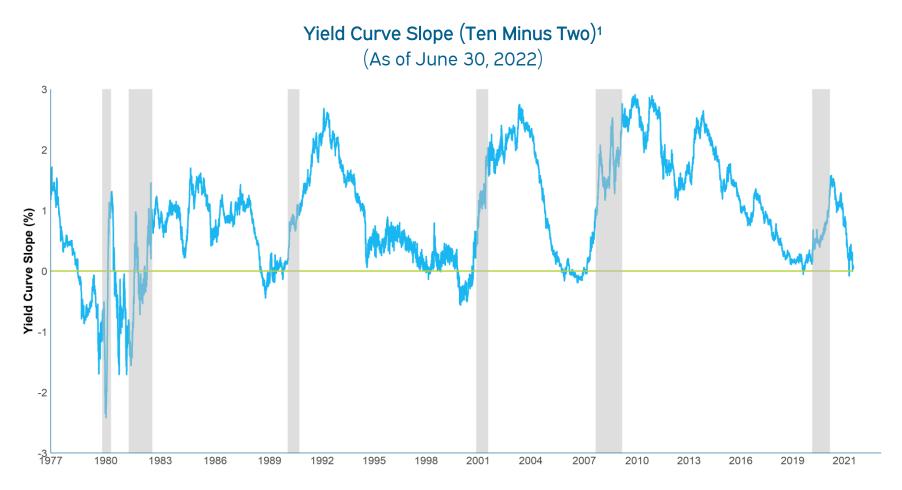
Percentage of Volatile Days in Subsequent Month

→ Systemic Risk is a measure of 'System-wide' risk, which indicates herding type behavior.

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¹ Source: Meketa Investment Group. Volatile days are defined as the top 10 percent of realized turbulence, which is a multivariate distance between asset returns.





→ This chart details the historical difference in yields between ten-year and two-year US Treasury bonds/notes. A higher (lower) figure indicates a steeper (flatter) yield curve slope.

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¹ Yield Curve Slope (Ten Minus Two) - Source: Bloomberg, and Meketa Investment Group. Yield curve slope is calculated as the difference between the 10-Year US Treasury Yield and 2-Year US Treasury Yield.



Ten-Year Breakeven Inflation¹ (As of June 30, 2022)

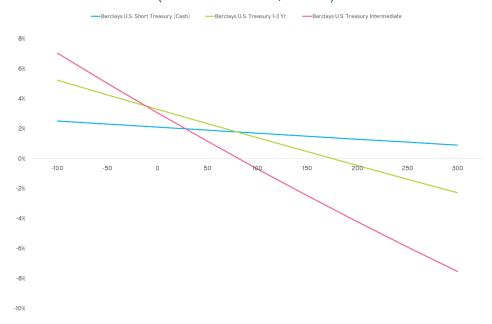


→ This chart details the difference between nominal and inflation-adjusted US Treasury bonds. A higher (lower) figure indicates higher (lower) inflation expectations.

¹ Ten-Year Breakeven Inflation – Source: US Treasury and Federal Reserve. Inflation is measured by the Consumer Price Index (CPI-U NSA).



Total Return Given Changes in Interest Rates (bps)¹ (As of June 30, 2022)



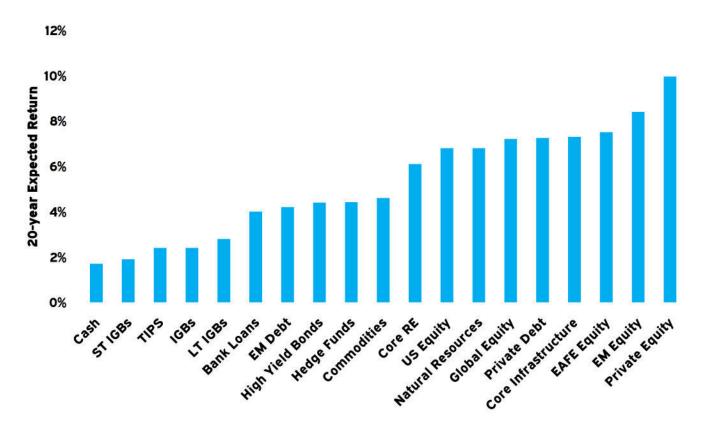
	Total Return for Given Changes in Interest Rates (bps)							Statistics			
	-100	-50	0	50	100	150	200	250	300	Duration	YTW
Barclays US Short Treasury (Cash)	2.5%	2.3%	2.1%	1.9%	1.7%	1.5%	1.3%	1.1%	0.9%	0.41	2.08%
Barclays US Treasury 1-3 Yr.	5.2%	4.2%	3.3%	2.3%	1.4%	0.4%	-0.5%	-1.4%	-2.3%	1.92	3.27%
Barclays US Treasury Intermediate	7.0%	5.0%	3.0%	1.1%	-0.7%	-2.5%	-4.2%	-5.9%	-7.6%	3.86	3.04%
Barclays US Treasury Long	22.4%	12.4%	3.3%	-4.8%	-12.0%	-18.2%	-23.5%	-27.9%	-31.3%	17.17	3.33%

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¹ Data represents the expected total return from a given change in interest rates (shown in basis points) over a 12-month period assuming a parallel shift in rates. Source: Bloomberg, and Meketa Investment Group.



Long-Term Outlook - 20-Year Annualized Expected Returns1



→ This chart details Meketa's long-term forward-looking expectations for total returns across asset classes.

¹ Source: Meketa Investment Group's 2022 Annual Asset Study.



Appendix

Data Sources and Explanations¹

- → US Equity Cyclically Adjusted P/E on S&P 500 Index Source: Robert Shiller and Yale University.
- → Small Cap P/E (Russell 2000 Index) vs. Large Cap P/E (Russell 1000 Index) Source: Russell Investments. Earnings figures represent 12-month "as reported" earnings.
- → Growth P/E (Russell 3000 Growth Index) vs. Value (Russell 3000 Value Index) P/E Source: Bloomberg, MSCI, and Meketa Investment Group. Earnings figures represent 12-month "as reported" earnings.
- → Developed International Equity (MSCI EAFE) Cyclically Adjusted P/E Source: MSCI and Bloomberg. Earnings figures represent the average of monthly "as reported" earnings over the previous ten years.
- → Emerging Market Equity (MSCI Emerging Markets Index) Cyclically Adjusted P/E Source: MSCI and Bloomberg. Earnings figures represent the average of monthly "as reported" earnings over the previous ten years.
- → Private Equity Multiples Source: S&P LCD Average EBITDA Multiples Paid in All LBOs.
- → Core Real Estate Spread vs. Ten-Year Treasury Source: Real Capital Analytics, US Treasury, Bloomberg, and Meketa Investment Group. Core Real Estate is proxied by weighted sector transaction-based indices from Real Capital Analytics and Meketa Investment Group.

¹ All Data as of June 30, 2022, unless otherwise noted.



Appendix

Data Sources and Explanations¹

- → REITs Dividend Yield Spread vs. Ten-Year Treasury Source: NAREIT, US Treasury. REITs are proxied by the yield for the NAREIT Equity Index.
- → Credit Spreads Source: Bloomberg High Yield is proxied by the Bloomberg High Yield Index and Investment Grade Corporates are proxied by the Bloomberg US Corporate Investment Grade Index.
 - Spread is calculated as the difference between the Yield to Worst of the respective index and the 10-Year Treasury Yield.
- → EM Debt Spreads Source: Bloomberg, and Meketa Investment Group. Option Adjusted Spread (OAS) for the Bloomberg EM USD Aggregate Index.
- → Equity Volatility Source: Bloomberg, and Meketa Investment Group. Equity Volatility proxied by VIX Index, a Measure of implied option volatility for US equity markets.
- → Fixed Income Volatility Source: Bloomberg, and Meketa Investment Group. Equity Volatility proxied by MOVE Index, a Measure of implied option volatility for US Treasury markets.
- → Systemic Risk and Volatile Market Days Source: Meketa Investment Group. Volatile days are defined as the top 10 percent of realized turbulence, which is a multivariate distance between asset returns.
- → Systemic Risk, which measures risk across markets, is important because the more contagion of risk that exists between assets, the more likely it is that markets will experience volatile periods.

¹ All Data as of June 30, 2022, unless otherwise noted.



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Appendix

Data Sources and Explanations¹

- → Yield Curve Slope (Ten Minus Two) Source: Bloomberg, and Meketa Investment Group. Yield curve slope is calculated as the difference between the 10-Year US Treasury Yield and 2-Year US Treasury Yield.
- → Ten-Year Breakeven Inflation Source: US Treasury and Federal Reserve. Inflation is measured by the Consumer Price Index (CPI-U NSA).

¹ All Data as of June 30, 2022, unless otherwise noted



Meketa Market Sentiment Indicator Explanation, Construction and Q&A

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Capital Markets Outlook & Risk Metrics



Meketa has created the MIG Market Sentiment Indicator (MIG-MSI) to <u>complement</u> our valuation-focused Risk Metrics. This measure of sentiment is meant to capture significant and persistent shifts in long-lived market trends of economic growth risk, either towards a risk-seeking trend or a risk-aversion trend.

This appendix explores:

- → What is the Meketa Market Sentiment Indicator?
- → How do I read the indicator graph?
- → How is the Meketa Market Sentiment Indicator constructed?
- → What do changes in the indicator mean?

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Capital Markets Outlook & Risk Metrics



Meketa has created a market sentiment indicator for monthly publication (the MIG-MSI – see below) to complement Meketa's Risk Metrics.

→ Meketa's Risk Metrics, which rely significantly on standard market measures of relative valuation, often provide valid early signals of increasing long-term risk levels in the global investment markets. However, as is the case with numerous valuation measures, the Risk Metrics may convey such risk concerns long before a market correction take place. The MIG-MSI helps to address this early-warning bias by measuring whether the markets are beginning to acknowledge key Risk Metrics trends, and / or indicating non-valuation-based concerns. Once the MIG-MSI indicates that the market sentiment has shifted, it is our belief that investors should consider significant action, particularly if confirmed by the Risk Metrics. Importantly, Meketa believes the Risk Metrics and MIG-MSI should always be used in conjunction with one another and never in isolation. The questions and answers below highlight and discuss the basic underpinnings of the Meketa MIG-MSI:

What is the Meketa Market Sentiment Indicator (MIG-MSI)?

→ The MIG-MSI is a measure meant to gauge the market's sentiment regarding economic growth risk. Growth risk cuts across most financial assets and is the largest risk exposure that most portfolios bear. The MIG-MSI takes into account the momentum (trend over time, positive or negative) of the economic growth risk exposure of publicly traded stocks and bonds, as a signal of the future direction of growth risk returns; either positive (risk seeking market sentiment), or negative (risk averse market sentiment).

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How do I read the Meketa Market Sentiment Indicator graph?

- → Simply put, the MIG-MSI is a color-coded indicator that signals the market's sentiment regarding economic growth risk. It is read left to right chronologically. A green indicator on the MIG-MSI indicates that the market's sentiment towards growth risk is positive. A gray indicator indicates that the market's sentiment towards growth risk is neutral or inconclusive. A red indicator indicates that the market's sentiment towards growth risk is negative. The black line on the graph is the level of the MIG-MSI. The degree of the signal above or below the neutral reading is an indication the signal's current strength.
- → Momentum as we are defining it is the use of the past behavior of a series as a predictor of its future behavior.



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How is the Meketa Market Sentiment Indicator (MIG-MSI) Constructed?

- → The MIG-MSI is constructed from two sub-elements representing investor sentiment in stocks and bonds:
 - Stock return momentum: Return momentum for the S&P 500 Equity Index (trailing 12-months).
 - Bond yield spread momentum: Momentum of bond yield spreads (excess of the measured bond yield over the identical duration US Treasury bond yield) for corporate bonds (trailing 12-months) for both investment grade bonds (75% weight) and high yield bonds (25% weight).
 - Both measures are converted to Z-scores and then combined to get an "apples to apples" comparison without the need of re-scaling.
- → The black line reading on the graph is calculated as the average of the stock return momentum measure and the bonds spread momentum measure. The color reading on the graph is determined as follows:
 - If both stock return momentum and bond spread momentum are positive = GREEN (positive).
 - If one of the momentum indicators is positive, and the other negative = GRAY (inconclusive).
 - If both stock return momentum and bond spread momentum are negative = RED (negative).

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¹ Momentum as we are defining it is the use of the past behavior of a series as a predictor of its future behavior.

[&]quot;Time Series Momentum" Moskowitz, Ooi, Pedersen, August 2010. http://pages.stern.nyu.edu/~lpederse/papers/TimeSeriesMomentum.pdf

Capital Markets Outlook & Risk Metrics



What does the Meketa Market Sentiment Indicator (MIG-MSI) mean? Why might it be useful?

→ There is strong evidence that time series momentum is significant and persistent. Across an extensive array of asset classes, the sign of the trailing 12-month return (positive or negative) is indicative of future returns (positive or negative) over the next 12-month period. The MIG-MSI is constructed to measure this momentum in stocks and corporate bond spreads. A reading of green or red is agreement of both the equity and bond measures, indicating that it is likely that this trend (positive or negative) will continue over the next 12 months. When the measures disagree, the indicator turns gray. A gray reading does not necessarily mean a new trend is occurring, as the indicator may move back to green, or into the red from there. The level of the reading (black line) and the number of months at the red or green reading, gives the user additional information on which to form an opinion, and potentially take action.

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Economic and Market Update

Data as of June 30, 2022



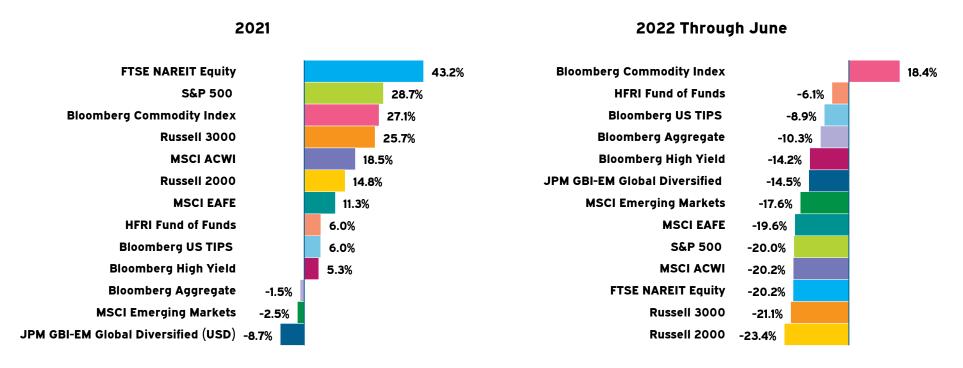
Commentary

- → Global markets resumed their sell-off in June as inflation surged in the US and Europe.
 - In response, the US Federal Reserve increased interest rates 75 basis points (above prior expectations). Markets also repriced the growth outlook downward.
 - All major equity indices suffered steep declines in June. Emerging markets proved slightly more resilient than developed markets on a partial re-opening in China from pandemic related lockdowns.
 - In a reversal of the prior trend growth stocks outperformed value stocks in June.
 - The global bond selloff resumed, as inflation fears, and policy expectations weighed on all major bond markets.
- → Persistently high inflation and the expected policy response, the war in Ukraine, lingering COVID-19 issues, and lockdowns in China will all have considerable economic and financial consequences for the global economy.

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Index Returns¹



- → Outside of emerging markets and the broad US investment grade bond market (Bloomberg Aggregate), most asset classes appreciated in 2021.
- → In June all major asset classes posted negative returns on renewed inflation and economic growth fears, with equities experiencing the largest declines.

¹ Source: Bloomberg and FactSet. Data is as of June 30, 2022.



Domestic Equity Returns¹

Domestic Equity	June (%)	Q2 (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)
S&P 500	-8.3	-16.1	-20.0	-10.6	10.6	11.3	12.9
Russell 3000	-8.4	-16.7	-21.1	-13.9	9.8	10.6	12.6
Russell 1000	-8.4	-16.7	-20.9	-13.0	10.2	11.0	12.8
Russell 1000 Growth	-7.9	-20.9	-28.1	-18.8	12.6	14.3	14.8
Russell 1000 Value	-8.7	-12.2	-12.9	-6.8	6.9	7.2	10.5
Russell MidCap	-10.0	-16.8	-21.6	-17.3	6.6	8.0	11.3
Russell MidCap Growth	-7.5	-21.1	-31.0	-29.6	4.3	8.9	11.5
Russell MidCap Value	-11.0	-14.7	-16.2	-10.0	6.7	6.3	10.6
Russell 2000	-8.2	-17.2	-23.4	-25.2	4.2	5.2	9.4
Russell 2000 Growth	-6.2	-19.3	-29.5	-33.4	1.4	4.8	9.3
Russell 2000 Value	-9.9	-15.3	-17.3	-16.3	6.2	4.9	9.0

US Equities: Russell 3000 Index declined 8.3%, and growth indices outperformed value in June.

- → US stocks experienced steep losses for the month, led by the energy and materials sectors.
- → Growth indices outperformed their value counterparts for the month but remain well behind for the year-to-date period.
- → Small company stocks slightly outperformed large company stocks in June but remain behind their larger peers year-to-date.

Source: Bloomberg. Data is as of June 30, 2022.



Foreign Equity Returns¹

Foreign Equity	June (%)	Q2 (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)
MSCI ACWI ex. US	-8.6	-13.7	-18.4	-19.4	1.3	2.5	4.8
MSCI EAFE	-9.3	-14.5	-19.6	-17.8	1.1	2.2	5.4
MSCI EAFE (Local Currency)	-6.3	-7.8	-11.3	-6.6	4.4	4.3	8.3
MSCI EAFE Small Cap	-11.0	-17.7	-24.7	-24.0	1.1	1.7	7.2
MSCI Emerging Markets	-6.6	-11.5	-17.6	-25.3	0.6	2.2	3.1
MSCI Emerging Markets (Local Currency)	-4.6	-8.1	-13.7	-20.2	3.3	4.4	6.0
MSCI China	6.6	3.4	-11.3	-31.8	-0.6	2.1	5.5

International Equities (MSCI EAFE) declined 9.3% and Emerging Markets (MSCI EM) declined 6.6% in June.

- → Non-US developed market stocks slightly trailed the US for the month, while emerging markets stocks had better results due to China gaining 6.6%. Both remain notably negative for the year-to-date period, but ahead of the US.
- → The war in Ukraine, high inflation and the likely monetary policy response, and slowing growth continue to weigh on sentiment.
- → As in the US, growth stocks outperformed value stocks across developed and emerging markets.

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¹ Source: Bloomberg. Data is as of June 30, 2022.



Fixed Income Returns¹

							Current		
Fixed Income	June (%)	Q2 (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	Yield (%)	Duration (Years)
Bloomberg Universal	-2.0	-5.1	-10.9	-10.9	-0.9	0.9	1.8	4.2	6.4
Bloomberg Aggregate	-1.6	-4.7	-10.3	-10.3	-0.9	0.9	1.5	3.7	6.6
Bloomberg US TIPS	-3.2	-6.1	-8.9	-5.1	3.0	3.2	1.7	3.4	7.0
Bloomberg High Yield	-6.7	-9.8	-14.2	-12.8	0.2	2.1	4.5	8.9	4.8
JPM GBI-EM Global Diversified (USD)	-4.5	-8.6	-14.5	-19.3	-5.8	-2.3	-1.5	7.4	4.9

Fixed Income: The Bloomberg Universal declined 2.0% in June.

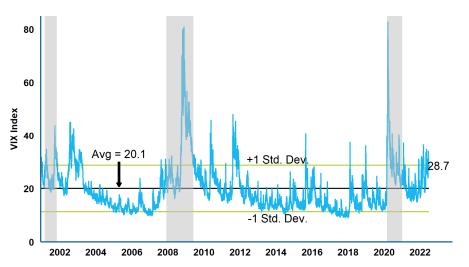
- → The above expectations CPI print led to renewed inflation fears driving interest rates higher and weighing on the broad US investment grade bond market (Bloomberg Aggregate).
- → Despite the above expectation CPI prints, breakeven inflation rates have continued to move down driven by the decline in nominal rates. The nominal 10-year Treasury yield peaked at 3.47% before declining to 3.01% by month-end, while the 2-year Treasury yield declined from 3.43% to 2.95%.
- → US credit spreads widened, particularly for high yield debt, leading to it having the worst results among bonds for the month.
- → Emerging market debt also declined for the month.

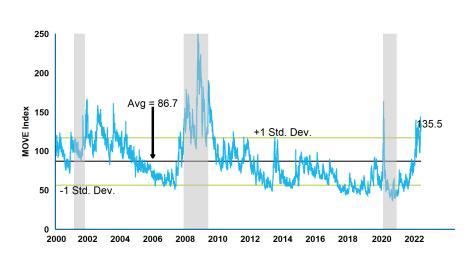
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Source: Bloomberg, JPM GBI-EM is from InvestorForce, Data is as of June 30, 2022.



Equity and Fixed Income Volatility¹





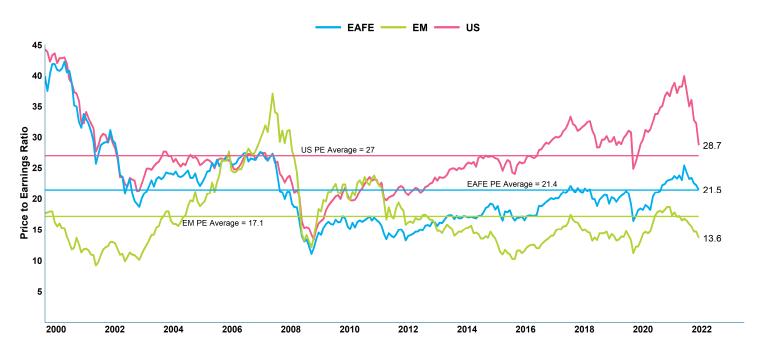
- → Volatility in equities (VIX) and fixed income (MOVE) rose in June on renewed inflation fears and on building signs of weakness in economic growth.
- → Fixed income volatility remains particularly high due to the uncertain path of short-term interest rates.

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¹ Equity and Fixed Income Volatility – Source: Bloomberg. Implied volatility as measured using VIX Index for equity markets and the MOVE Index to measure interest rate volatility for fixed income markets. Data is as of June 2022. The average line indicated is the average of the VIX and MOVE values between January 2000 and the recent month-end respectively.



Equity Cyclically Adjusted P/E Ratios¹



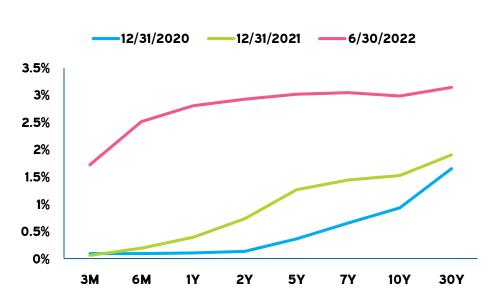
- → The steep decline in June in US equities pushed valuations lower, approaching the level of the long-term (post-2000) average.
- → International developed market valuations remain below the US and are slightly above their own long-term average, with those for emerging markets the lowest and under the long-term average.

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¹ US Equity Cyclically Adjusted P/E on S&P 500 Index. Source: Robert Shiller, Yale University, and Meketa Investment Group. Developed and Emerging Market Equity (MSCI EAFE and EM Index) Cyclically Adjusted P/E – Source: MSCI and Bloomberg. Earnings figures represent the average of monthly "as reported" earnings over the previous ten years. Data is as of June 30, 2022. The average line is the long-term average of the US, EM, and EAFE PE values from December 1999 to the recent month-end respectively.





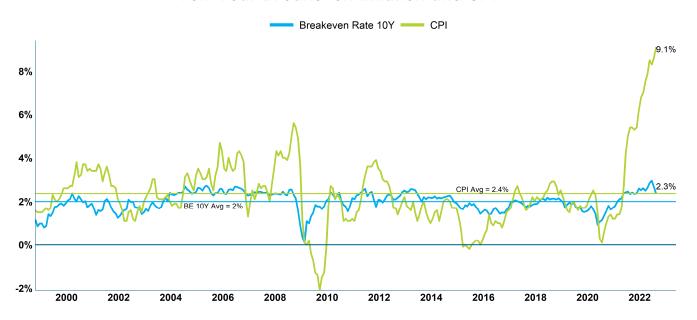


- → Rates across the yield curve remain much higher than at the start of the year.
- → In June, rates rose across maturities (particularly short-dated), as markets continue to reflect elevated inflation and rate expectations.
- → The curve continued to flatten in June with the spread between two-year and ten-year Treasuries falling from 30 basis points at the end of May to just 5 basis points by the end of June.
- → Since month-end, the spread between two-year and ten-year Treasuries became negative which historically has often signaled a coming recession.

¹ Source: Bloomberg. Data is as of June 30, 2022.



Ten-Year Breakeven Inflation and CPI¹



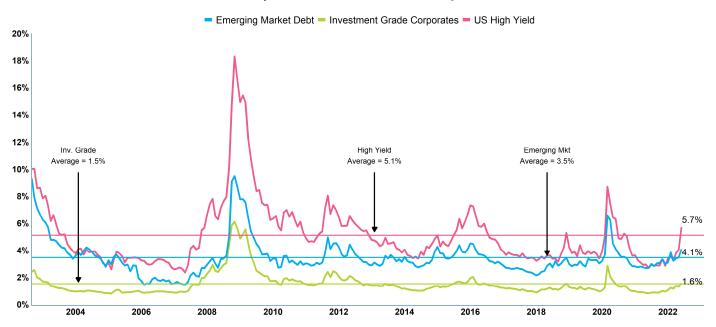
- → Inflation expectations (breakevens) fell further in June on declining growth expectations and anticipated tighter monetary policy.
- → Trailing twelve-month CPI rose in June (9.1% versus 8.6%) and notably came in above expectations. Inflation levels in the US remain well above the long-term average of 2.4%.
- → Rising prices for energy (particularly oil), food, housing, and for new and used cars, remain key drivers of higher inflation.

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¹ Source: Bloomberg. Data is as of June 30, 2022. The CPI and 10 Year Breakeven average lines denote the average values from August 1998 to the present month-end respectively. Breakeven values represent month-end values for comparative purposes.



Credit Spreads vs. US Treasury Bonds¹



- → Credit spreads (the spread above a comparable maturity Treasury) rose in June with high yield and investment grade corporate bonds breaking above their long-run averages.
- → In the US, spreads for high yield significantly increased from 4.0% to 5.7% in the risk-off environment, while investment grade spreads experienced a more modest increase (1.3% to 1.6%). Emerging market spreads also rose (3.5% to 4.1% during the month) but finished much lower than US high yield spreads.

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¹ Sources: Bloomberg. Data is as of June 30, 2022. Average lines denote the average of the investment grade, high yield, and emerging market spread values from August 2000 to the recent month-end respectively.



Global Economic Outlook

The IMF significantly lowered global growth forecasts in their latest projections, driven by the economic impacts of the war in Ukraine.

- → The IMF forecasts final global GDP growth to come in at 6.1% in 2021 and 3.6% in 2022 (0.8% below the prior 2022 estimate), both still above the past ten-year 3.0% average.
- → In advanced economies, GDP is projected to increase 3.3% in 2022 and 2.4% in 2023. The US has limited economic ties with Russia but saw another downgrade in the 2022 growth forecast (3.7% versus 4.0%) largely due to policy tightening happening faster than previously expected. The euro area saw a significant downgrade in expected growth (2.8% versus 3.9%) in 2022 as rising energy prices particularly weigh on the region that is a net importer of energy. The Japanese economy is expected to grow 2.4% this year.
- → Growth projections for emerging markets are higher than developed markets, at 3.8% in 2022 and 4.4% in 2023. China's growth was downgraded (4.4% versus 4.8%) for 2022 given tight COVID-19 restrictions and continued property sector problems.
- \rightarrow The global inflation forecast was significantly increased for 2022 (7.4% versus 3.8%).

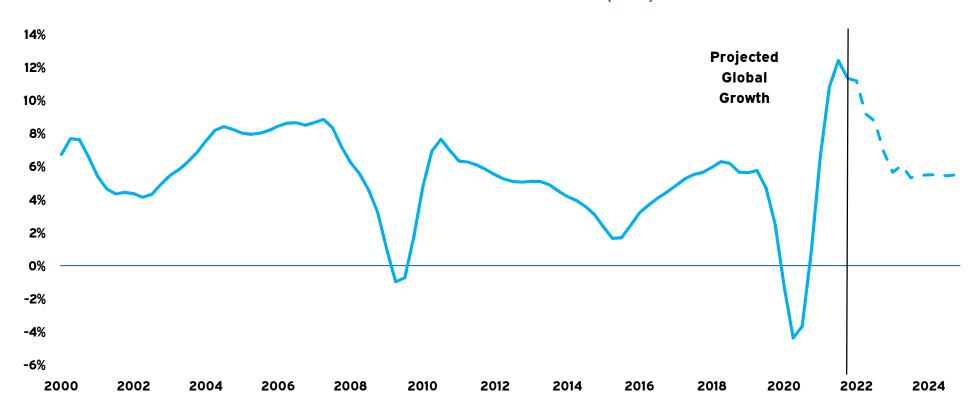
		Real GDP (%)1		Inflation (%)¹				
	IMF 2022 Forecast	IMF 2023 Forecast	Actual 10 Year Average	IMF 2022 Forecast	IMF 2023 Forecast	Actual 10 Year Average		
World	3.6	3.6	3.0	7.4	4.8	3.5		
Advanced Economies	3.3	2.4	1.6	5.7	2.5	1.5		
US	3.7	2.3	2.1	7.7	2.9	1.9		
Euro Area	2.8	2.3	0.9	5.3	2.3	1.2		
Japan	2.4	2.3	0.5	1.0	0.8	0.5		
Emerging Economies	3.8	4.4	4.2	8.7	6.5	5.1		
China	4.4	5.1	6.7	2.1	1.8	2.1		

¹ Source: IMF World Economic Outlook. Real GDP forecasts from April WEO Update. Inflation forecasts are as of the April 2022 Update." Actual 10 Year Average" represents data from 2012 to 2021.

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Global Nominal Gross Domestic Product (GDP) Growth¹



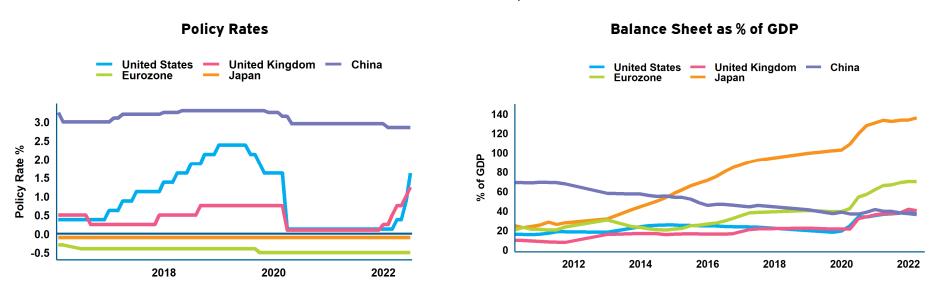
- → Global economies are expected to slow in 2022 compared to 2021 with fears of potential recessions in areas increasing recently given persistently high inflation and related tighter monetary policy.
- → Looking forward, the delicate balancing act of central banks trying to reduce inflation without dramatically impacting growth will remain key.

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¹ Source: Oxford Economics (World GDP, US\$ prices & PPP exchange rate, nominal, % change YoY). Updated June 2022.



Central Bank Response¹



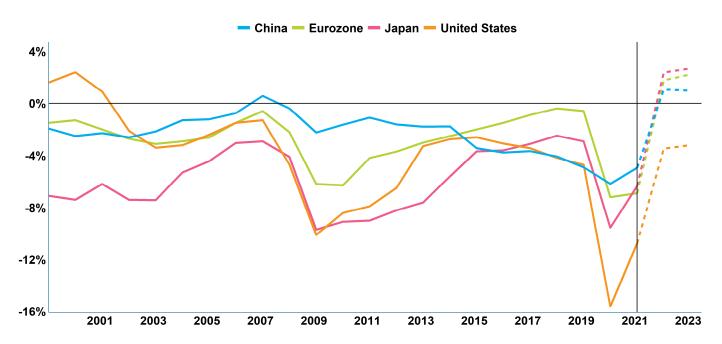
- → After global central banks took extraordinary action to support economies during the pandemic, including policy rate cuts and emergency stimulus through quantitative easing (QE), many are reducing or considering reducing support, in the face of high inflation.
- → The pace of withdrawing support will likely vary across central banks with the US expected to take a more aggressive approach. The risk remains for a policy error, particularly overtightening, as record inflation, the war in Ukraine, and a tough COVID-19 policy in China could suppress global growth.
- → The one notable central bank outlier is China, where the central bank recently lowered rates and reserve requirements in response to slowing growth.

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¹ Source: Bloomberg, Policy rate data is as of June 30, 2022. China policy rate is defined as the medium-term lending facility 1 year interest rate. Balance sheet as % of GDP is based on quarterly data and is as of June 30, 2022.



Budget Surplus / Deficit as a Percentage of GDP¹



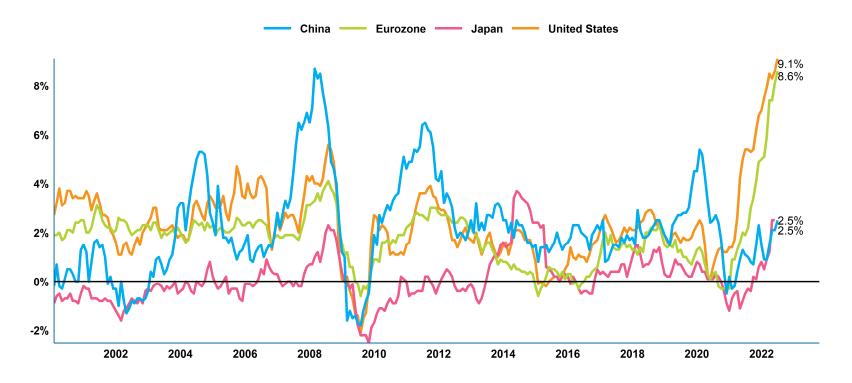
- → Budget deficits as a percentage of GDP drastically increased for major world economies, particularly the US, due to massive fiscal support and the severe economic contraction's effect on tax revenue in 2020 and 2021.
- → As fiscal stimulus programs end, and economic recoveries continue, deficits should improve in the coming years.

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¹ Source: Bloomberg. Data is as of June 30, 2022. Projections via IMF Forecasts from April 2022 Report. Dotted lines represent 2022 and 2023 forecasts.



Inflation (CPI Trailing Twelve Months)¹



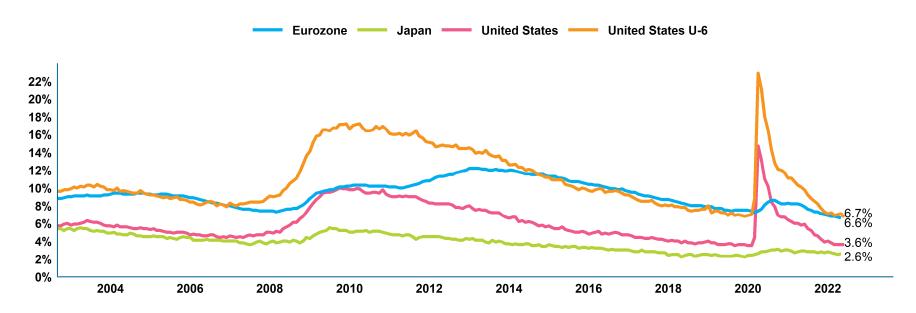
- → Inflation increased dramatically from the lows of the pandemic, particularly in the US and Eurozone where it has reached levels not seen in many decades.
- → Supply issues related to the pandemic, record monetary and fiscal stimulus, strict COVID-19 restrictions in China, and higher prices in many commodities driven by the war in Ukraine have been key drivers of inflation globally.

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¹ Source: Bloomberg. Data is as of June 2022, except for Japan, where the most recent data available is as of May 31, 2022.



Unemployment¹

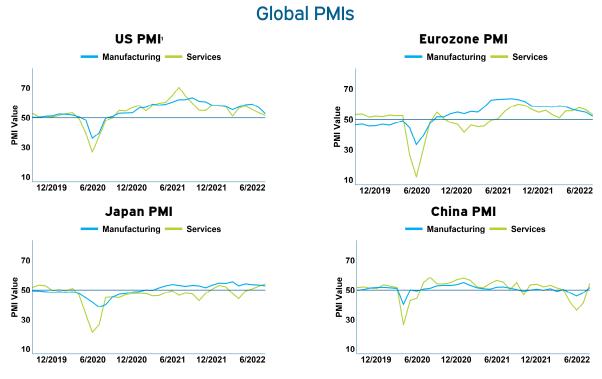


- → As economies have largely reopened, helped by vaccines for the virus, improvements have been seen in the labor market.
- → US unemployment, which experienced the steepest rise from the pandemic, declined back to pre-pandemic levels. The broader measure (U-6) that includes discouraged and underemployed workers declined but is much higher at 6.7%.

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¹ Source: Bloomberg. Data is as of June 2022, for the US. The most recent data for Eurozone and Japanese unemployment is as of May 31, 2022.



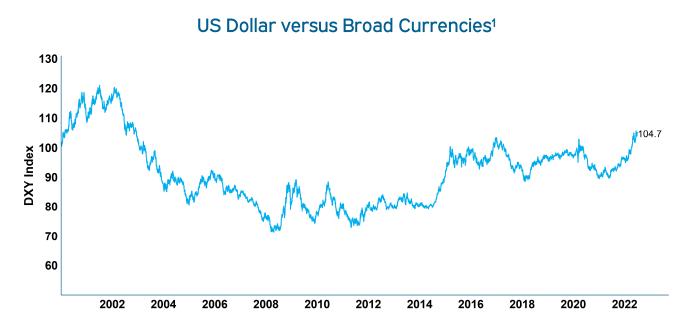


- → After improvements from the lows of the pandemic, Purchasing Managers Indices (PMI), based on surveys of private sector companies, have experienced some pressures recently.
- → Service sector PMIs in the US and Europe have recently declined due to higher prices and supply issues, while they continue to improve in Japan as pandemic restrictions ease. In China the services PMI surged to expansion territory on an easing in lockdown measures.
- → Manufacturing PMIs are in expansion territory as pandemic-related production issues ease and orders increase. China also moved to expansion levels here on partial reopening.

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¹ Source: Bloomberg. US Markit Services and Manufacturing PMI, Caixin Services and Manufacturing PMI, Eurozone Markit Services and Manufacturing PMI, Jibun Bank Services and Manufacturing PMI. Data is as of June 2022. Readings below 50 represent economic contractions.





- → The US dollar continued higher in June on safe-haven flows, relatively strong growth, and higher interest rates.
- → The euro, yen, and yuan have all experienced significant declines versus the dollar, adding to inflation and slowing growth concerns.

¹ Source: Bloomberg. Data as of June 30, 2022.



Summary

Key Trends in 2022:

- → The impacts of record high inflation will remain key going forward, with volatility likely to remain high.
- → The war in Ukraine has created significant uncertainty, with a wide range of potential outcomes.
- → Expect growth to slow globally in 2022 to the long-term trend or below. Inflation, monetary policy, and the war will all be key.
- → The end of many fiscal programs is expected to put the burden of continued growth on consumers. Higher energy and food prices will depress consumers' spending in other areas.
- → Monetary policy will likely tighten globally but will remain relatively accommodative. The risk of overtightening policy remains.
- → Valuations have significantly declined in the US, approaching long-term averages.
- → Outside the US, equity valuations remain lower in both emerging and developed markets, but risks remain, including continued strength in the US dollar, higher inflation particularly weighing on Europe, and China maintaining its restrictive COVID-19 policies.

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Credit Risk: Refers to the risk that the issuer of a fixed income security may default (i.e., the issuer will be unable to make timely principal and/or interest payments on the security).

Duration: Measure of the sensitivity of the price of a bond to a change in its yield to maturity. Duration summarizes, in a single number, the characteristics that cause bond prices to change in response to a change in interest rates. For example, the price of a bond with a duration of three years will rise by approximately 3% for each 1% decrease in its yield to maturity. Conversely, the price will decrease 3% for each 1% increase in the bond's yield. Price changes for two different bonds can be compared using duration. A bond with a duration of six years will exhibit twice the percentage price change of a bond with a three-year duration. The actual calculation of a bond's duration is somewhat complicated, but the idea behind the calculation is straightforward. The first step is to measure the time interval until receipt for each cash flow (coupon and principal payments) from a bond. The second step is to compute a weighted average of these time intervals. Each time interval is measured by the present value of that cash flow. This weighted average is the duration of the bond measured in years.

Information Ratio: This statistic is a measure of the consistency of a portfolio's performance relative to a benchmark. It is calculated by subtracting the benchmark return from the portfolio return (excess return), and dividing the resulting excess return by the standard deviation (volatility) of this excess return. A positive information ratio indicates outperformance versus the benchmark, and the higher the information ratio, the more consistent the outperformance.

Jensen's Alpha: A measure of the average return of a portfolio or investment in excess of what is predicted by its beta or "market" risk. Portfolio Return-[Risk Free Rate+Beta*(market return-Risk Free Rate)].

Market Capitalization: For a firm, market capitalization is the total market value of outstanding common stock. For a portfolio, market capitalization is the sum of the capitalization of each company weighted by the ratio of holdings in that company to total portfolio holdings; thus it is a weighted-average capitalization. Meketa Investment Group considers the largest 65% of the broad domestic equity market as large capitalization, the next 25% of the market as medium capitalization, and the smallest 10% of stocks as small capitalization.

Market Weighted: Stocks in many indices are weighted based on the total market capitalization of the issue. Thus, the individual returns of higher market-capitalization issues will more heavily influence an index's return than the returns of the smaller market-capitalization issues in the index.

Maturity: The date on which a loan, bond, mortgage, or other debt/security becomes due and is to be paid off.

Prepayment Risk: The risk that prepayments will increase (homeowners will prepay all or part of their mortgage) when mortgage interest rates decline; hence, investors' monies will be returned to them in a lower interest rate environment. Also, the risk that prepayments will slow down when mortgage interest rates rise; hence, investors will not have as much money as previously anticipated in a higher interest rate environment. A prepayment is any payment in excess of the scheduled mortgage payment.

Price-Book Value (P/B) Ratio: The current market price of a stock divided by its book value per share. Meketa Investment Group calculates P/B as the current price divided by Compustat's quarterly common equity. Common equity includes common stock, capital surplus, retained earnings, and treasury stock adjusted for both common and nonredeemable preferred stock. Similar to high P/E stocks, stocks with high P/B's tend to be riskier investments.

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Price-Earnings (P/E) Ratio: A stock's market price divided by its current or estimated future earnings. Lower P/E ratios often characterize stocks in low growth or mature industries, stocks in groups that have fallen out of favor, or stocks of established blue chip companies with long records of stable earnings and regular dividends. Sometimes a company that has good fundamentals may be viewed unfavorably by the market if it is an industry that is temporarily out of favor. Or a business may have experienced financial problems causing investors to be skeptical about is future. Either of these situations would result in lower relative P/E ratios. Some stocks exhibit above-average sales and earnings growth or expectations for above average growth. Consequently, investors are willing to pay more for these companies' earnings, which results in elevated P/E ratios. In other words, investors will pay more for shares of companies whose profits, in their opinion, are expected to increase faster than average. Because future events are in no way assured, high P/E stocks tend to be riskier and more volatile investments. Meketa Investment Group calculates P/E as the current price divided by the I/B/E/S consensus of twelve-month forecast earnings per share.

Quality Rating: The rank assigned a security by such rating services as Fitch, Moody's, and Standard & Poor's. The rating may be determined by such factors as (1) the likelihood of fulfillment of dividend, income, and principal payment of obligations; (2) the nature and provisions of the issue; and (3) the security's relative position in the event of liquidation of the company. Bonds assigned the top four grades (AAA, AA, A, BBB) are considered investment grade because they are eligible bank investments as determined by the controller of the currency.

Sharpe Ratio: A commonly used measure of risk-adjusted return. It is calculated by subtracting the risk free return (usually three-month Treasury bill) from the portfolio return and dividing the resulting excess return by the portfolio's total risk level (standard deviation). The result is a measure of return per unit of total risk taken. The higher the Sharpe ratio, the better the fund's historical risk adjusted performance.

STIF Account: Short-term investment fund at a custodian bank that invests in cash-equivalent instruments. It is generally used to safely invest the excess cash held by portfolio managers.

Standard Deviation: A measure of the total risk of an asset or a portfolio. Standard deviation measures the dispersion of a set of numbers around a central point (e.g., the average return). If the standard deviation is small, the distribution is concentrated within a narrow range of values. For a normal distribution, about two thirds of the observations will fall within one standard deviation of the mean, and 95% of the observations will fall within two standard deviations of the mean.

Style: The description of the type of approach and strategy utilized by an investment manager to manage funds. For example, the style for equities is determined by portfolio characteristics such as price-to-book value, price-to-earnings ratio, and dividend yield. Equity styles include growth, value, and core.

Tracking Error: A divergence between the price behavior of a position or a portfolio and the price behavior of a benchmark, as defined by the difference in standard deviation.

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Yield to Maturity: The yield, or return, provided by a bond to its maturity date; determined by a mathematical process, usually requiring the use of a "basis book." For example, a 5% bond pays \$5 a year interest on each \$100 par value. To figure its current yield, divide \$5 by \$95—the market price of the bond—and you get 5.26%. Assume that the same bond is due to mature in five years. On the maturity date, the issuer is pledged to pay \$100 for the bond that can be bought now for \$95. In other words, the bond is selling at a discount of 5% below par value. To figure yield to maturity, a simple and approximate method is to divide 5% by the five years to maturity, which equals 1% pro rata yearly. Add that 1% to the 5.26% current yield, and the yield to maturity is roughly 6.26%.

Yield to Worst: The lowest potential yield that can be received on a bond without the issuer actually defaulting. The yield to worst is calculated by making worst-case scenario assumptions on the issue by calculating the returns that would be received if provisions, including prepayment, call, or sinking fund, are used by the issuer.

NCREIF Property Index (NPI): Measures unleveraged investment performance of a very large pool of individual commercial real estate properties acquired in the private market by tax-exempt institutional investors for investment purposes only. The NPI index is capitalization-weighted for a quarterly time series composite total rate of return.

NCREIF Fund Index - Open End Diversified Core Equity (NFI-ODCE): Measures the investment performance of 28 open-end commingled funds pursuing a core investment strategy that reflects funds' leverage and cash positions. The NFI-ODCE index is equal-weighted and is reported gross and net of fees for a quarterly time series composite total rate of return.

Sources: <u>Investment Terminology</u>, International Foundation of Employee Benefit Plans, 1999. The Handbook of Fixed Income Securities, Fabozzi, Frank J., 1991

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Throughout this report, numbers may not sum due to rounding.

Returns for periods greater than one year are annualized throughout this report.

Values shown are in millions of dollars, unless noted otherwise.

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