



INVESTMENT ADVISORY SERVICES

Los Angeles • New York

Alternative Investment Performance  
Merced County Employees' Retirement Association

December 10, 2020

# MCERA Private Equity Capital Budget & Implementation Plan

## 15% fund level target

- Annual capital budget target of \$40 million, range of \$30-\$50 million
- Target 4-7 investments, range of \$5-\$15 million per inv; average size of \$8 million per

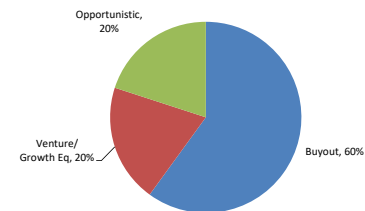
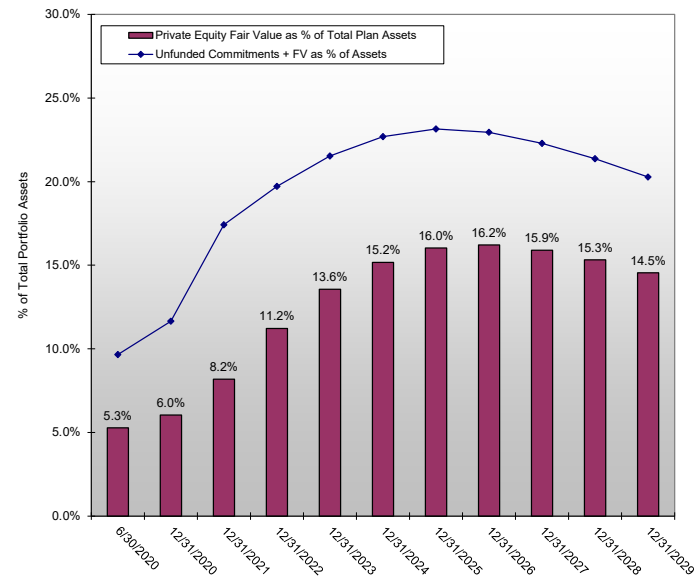
## Performance comparisons:

- *Long term investment objective:* Earn a return premium over public equity (Russell 3000 + 3%)
- *Recommended primary asset class benchmark:* Cambridge Associates Global Private Equity & VC Index
- *Recommended fund benchmarks:* Each fund will be compared to the Cambridge Associates strategy universe for the respective vintage years and each vintage year will be compared to Cambridge Associates Global Private Equity & VC Index

## MCERA CY 2020 commitments:

- *Summit Ventures V* – venture (VY 2020), \$6 mm
- *Silver Point Sp Credit II* – corporate debt (VY 2019), \$8 mm
- *Thoma Bravo Discover III* – tech buyout (VY 2020), \$8 mm
- *Marlin Heritage Europe II* – European control buyout (VY 2020), €7 mm
- *Taconic Mkt Dislocation II*– distressed (VY 2020), \$8 mm
- *Khosla VI & Seed D* – venture (VY 2021), \$8 mm
- *GTCR XIII* – buyout (VY 2021), \$8 mm
- *TCV XI* – venture (VY 2021), \$8 mm

Projected Private Equity Allocations



	Target	Ranges
Buyout	60%	40-80%
Venture/Growth Eq	20%	10-30%
Opportunistic	20%	10-30%
	100%	

Note: MCERA’s existing private equity portfolio was modeled using vintage year drawdown/return of capital assumptions patterned after historical category averages. Total fund growth of 5.5%.

# MCERA Private Equity Investment Structure & Portfolio Assessment

## Investment structure (15% fund target; 5.7% invested as of Sep 2020):

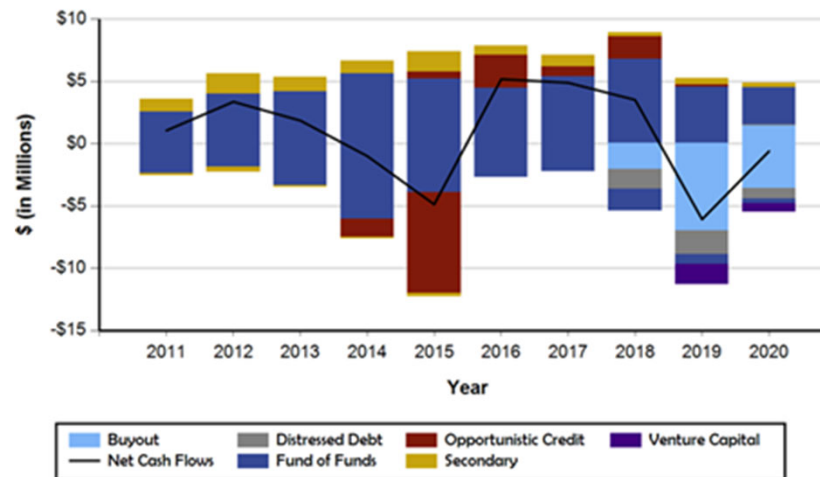
- Current portfolio is barbelled with half of commitments in 2007 & earlier FoFs and half in 2011 & later FoFs
  - Overall portfolio has not met performance expectations; 2011 & later portfolio is still in development with the funds in VY 2017-2020 in their investment period
  - Rebound in 2Q valuations improved the year over year performance; contributions exceed distributions by \$5 million as the newer portfolios are being built
  - Portfolio is diversified by strategy but overall it is in a negative cash flow situation

### Annual Summary

(in thousands)

	Total Partnerships	Total Commitments	(A) Contributions	(B) Distributions	(C) Fair Value	(B+C) Total Value	(B+C-A) Gain/ Loss	Net IRR	Benchmark
June 30, 2019	30	\$130,973	\$68,676	\$58,769	\$42,006	\$100,775	\$32,100	8.60%	11.44%
June 30, 2020	33	\$154,940	\$81,397	\$66,583	\$48,933	\$115,517	\$34,119	8.32%	11.23%
Annual Change	3	\$23,967	\$12,721	\$7,814	\$6,927	\$14,742	\$2,019		

Annual Cash Flow



Note: Net cash flow is the for the respective calendar year.

## MCERA Private Equity Performance – as of Jun 30, 2020

Partnership Name (\$000)	Strategy	(A) Commit. Amount	Unfund. Amount	(B) Cumulat. Cont.	% Drawn	(C)		(C+D) Total Value	(C+D-B) Gain/ Loss	IRR Net IRR	IRR Bench.	TVPI
						Cumulat. Dist.	(D) Fair Value					
<b>Vintage Year 2004</b>												
Invesco Partnership Fund IV, L.P.	Fund of Funds	10,000	2,417	7,898	76%	16,195	44	16,239	8,341	11.75%	6.80%	2.06
<b>Vintage Year 2004 Total</b>		<b>10,000</b>	<b>2,417</b>	<b>7,898</b>	<b>76%</b>	<b>16,195</b>	<b>44</b>	<b>16,239</b>	<b>8,341</b>	<b>11.75%</b>	<b>7.79%</b>	<b>2.06</b>
<b>Vintage Year 2005</b>												
ASP 2005 Non-US Fund	Fund of Funds	1,500	74	1,426	95%	1,670	263	1,934	508	4.66%	4.43%	1.36
ASP 2005 US Fund	Fund of Funds	3,500	177	3,323	95%	4,588	594	5,182	1,859	6.89%	7.41%	1.56
Pantheon Ventures Euro Fund IV	Fund of Funds	1,123	48	1,283	96%	1,584	77	1,662	378	4.56%	4.43%	1.29
Pantheon Ventures USA Fund VI	Fund of Funds	3,750	206	3,544	95%	5,104	281	5,385	1,841	6.52%	7.41%	1.52
<b>Vintage Year 2005 Total</b>		<b>9,873</b>	<b>505</b>	<b>9,576</b>	<b>95%</b>	<b>12,946</b>	<b>1,215</b>	<b>14,162</b>	<b>4,585</b>	<b>6.16%</b>	<b>7.52%</b>	<b>1.48</b>
<b>Vintage Year 2006</b>												
Pantheon Global Secondary Fund III "B"	Secondary	10,000	540	9,460	95%	10,200	373	10,573	1,113	1.99%	N/A	1.12
<b>Vintage Year 2006 Total</b>		<b>10,000</b>	<b>540</b>	<b>9,460</b>	<b>95%</b>	<b>10,200</b>	<b>373</b>	<b>10,573</b>	<b>1,113</b>	<b>1.99%</b>	<b>6.96%</b>	<b>1.12</b>
<b>Vintage Year 2007</b>												
ASP 2007 Direct Fund	Fund of Funds	450	12	438	97%	832	250	1,082	644	12.30%	11.12%	2.47
ASP 2007 Non-US Fund	Fund of Funds	1,575	78	1,497	95%	1,734	613	2,347	850	7.67%	7.84%	1.57
ASP 2007 US Fund	Fund of Funds	2,475	115	2,360	95%	3,525	932	4,457	2,097	11.80%	11.12%	1.89
<b>Vintage Year 2007 Total</b>		<b>4,500</b>	<b>205</b>	<b>4,295</b>	<b>95%</b>	<b>6,092</b>	<b>1,795</b>	<b>7,886</b>	<b>3,591</b>	<b>10.57%</b>	<b>8.85%</b>	<b>1.84</b>
<b>Vintage Year 2011</b>												
ASP 2011 Direct Fund	Fund of Funds	500	37	463	93%	492	354	847	384	13.93%	15.59%	1.83
ASP 2011 Emerging Markets Fund	Fund of Funds	500	64	436	87%	197	663	859	423	13.78%	10.16%	1.97
ASP 2011 Non-US Developed Fund	Fund of Funds	1,500	322	1,178	79%	1,045	953	1,998	819	12.66%	10.16%	1.70
ASP 2011 US Fund	Fund of Funds	2,500	326	2,175	87%	1,876	1,994	3,870	1,695	13.85%	15.59%	1.78
Pantheon Asia Fund VI	Fund of Funds	1,000	95	906	91%	440	971	1,411	505	9.84%	10.16%	1.56
Pantheon Euro Fund VII	Fund of Funds	1,567	208	1,493	87%	1,166	1,150	2,315	823	9.88%	10.16%	1.55
Pantheon Ventures USA Fund IX	Fund of Funds	2,000	212	1,788	89%	1,506	1,711	3,217	1,429	13.34%	15.59%	1.80
<b>Vintage Year 2011 Total</b>		<b>9,567</b>	<b>1,265</b>	<b>8,438</b>	<b>87%</b>	<b>6,721</b>	<b>7,796</b>	<b>14,517</b>	<b>6,078</b>	<b>12.47%</b>	<b>12.41%</b>	<b>1.72</b>
<b>Vintage Year 2013</b>												
Invesco Partnership Fund VI, L.P.	Fund of Funds	5,000	1,548	3,958	69%	1,443	6,824	8,268	4,309	16.33%	15.65%	2.09
<b>Vintage Year 2013 Total</b>		<b>5,000</b>	<b>1,548</b>	<b>3,958</b>	<b>69%</b>	<b>1,443</b>	<b>6,824</b>	<b>8,268</b>	<b>4,309</b>	<b>16.33%</b>	<b>11.24%</b>	<b>2.09</b>
<b>Vintage Year 2014</b>												
Ocean Avenue Fund II	Fund of Funds	10,000	1,000	9,000	90%	5,347	8,403	13,749	4,749	12.37%	16.57%	1.53
Raven Asset-Based Opportunity Fund II	Opportunistic Credit	10,000	474	9,526	95%	6,017	2,733	8,750	-776	-2.69%	6.71%	0.92
<b>Vintage Year 2014 Total</b>		<b>20,000</b>	<b>1,474</b>	<b>18,526</b>	<b>93%</b>	<b>11,364</b>	<b>11,136</b>	<b>22,499</b>	<b>3,974</b>	<b>5.77%</b>	<b>13.53%</b>	<b>1.21</b>

Note: The benchmark represents the Cambridge Associates LLC median for the respective strategy and vintage year. At the vintage year level, the Cambridge Associates LLC Global Private Equity & VC<sup>®</sup> median is used for the respective vintage year.

# MCERA Private Equity Performance – as of Jun 30, 2020

Partnership Name (\$000)	Strategy	(A) Commit. Amount	Unfund. Amount	(B) Cumulat. Cont.	% Drawn	(C)		(C+D) Total Value	(C+D-B) Gain/ Loss	Net IRR	IRR Bench.	TVPI
						Cumulat. Dist.	(D) Fair Value					
<b>Vintage Year 2017</b>												
GTCR XII	Buyout	5,000	2,697	2,303	46%	98	2,646	2,743	441	16.97%	12.45%	1.19
<b>Vintage Year 2017 Total</b>		<b>5,000</b>	<b>2,697</b>	<b>2,303</b>	<b>46%</b>	<b>98</b>	<b>2,646</b>	<b>2,743</b>	<b>441</b>	<b>16.97%</b>	<b>10.23%</b>	<b>1.19</b>
<b>Vintage Year 2018</b>												
Carrick Capital Partners III, L.P.	Buyout	5,000	3,713	1,287	26%	0	1,459	1,459	172	N/M	N/M	1.13
Cressey & Company Fund VI LP	Buyout	5,000	3,750	1,250	25%	0	1,416	1,416	166	N/M	N/M	1.13
Davidson Kempner Long-Term Distressed Opportuni	Distressed Debt	5,000	785	4,300	84%	85	4,437	4,523	223	3.96%	N/A	1.05
<b>Vintage Year 2018 Total</b>		<b>15,000</b>	<b>8,248</b>	<b>6,837</b>	<b>45%</b>	<b>85</b>	<b>7,312</b>	<b>7,397</b>	<b>560</b>	<b>6.05%</b>	<b>5.78%</b>	<b>1.08</b>
<b>Vintage Year 2019</b>												
Accel-KKR Growth Capital Partners III	Buyout	5,000	3,726	1,274	25%	0	1,207	1,207	-67	N/M	N/M	0.95
Cortec Group Fund VII, L.P.	Buyout	10,000	7,177	4,125	28%	1,303	3,322	4,625	501	N/M	N/M	1.12
Genstar Capital Partners IX, L.P.	Buyout	7,000	5,414	1,723	23%	137	1,759	1,896	174	N/M	N/M	1.10
Summit Partners Growth Equity Fund X-A, L.P.	Buyout	8,000	7,378	622	8%	0	732	732	110	N/M	N/M	1.18
TCV X, L.P.	Venture Capital	5,000	3,103	1,897	38%	0	2,365	2,365	468	N/M	N/M	1.25
<b>Vintage Year 2019 Total</b>		<b>35,000</b>	<b>26,798</b>	<b>9,641</b>	<b>23%</b>	<b>1,440</b>	<b>9,386</b>	<b>10,826</b>	<b>1,185</b>	<b>N/M</b>	<b>N/M</b>	<b>N/A</b>
<b>Vintage Year 2020</b>												
Accel-KKR Capital Partners VI, LP	Buyout	8,000	8,000	0	0%	0	0	0	0	N/M	N/M	N/A
Thoma Bravo Discover Fund III, L.P.	Buyout	8,000	8,000	0	0%	0	0	0	0	N/M	N/M	N/A
Spark Capital Growth Fund III, L.P.	Venture Capital	6,000	5,730	270	5%	0	231	231	-39	N/M	N/M	N/A
Spark Capital VI, L.P.	Venture Capital	3,000	2,805	195	6%	0	175	175	-20	N/M	N/M	N/A
Summit Partners Venture Capital Fund V-A, L.P.	Venture Capital	6,000	6,000	0	0%	0	0	0	0	N/M	N/M	N/A
<b>Vintage Year 2020 Total</b>		<b>31,000</b>	<b>30,535</b>	<b>465</b>	<b>2%</b>	<b>0</b>	<b>406</b>	<b>406</b>	<b>-59</b>	<b>N/M</b>	<b>N/M</b>	<b>N/A</b>
<b>Total Portfolio:</b>		<b>154,940</b>	<b>76,234</b>	<b>81,397</b>	<b>51%</b>	<b>66,584</b>	<b>48,933</b>	<b>115,517</b>	<b>34,120</b>	<b>8.32%</b>	<b>11.23%</b>	<b>1.42</b>
<b>Portfolio Strategy Totals</b>												
Buyout		61,000	49,856	12,584	18%	1,538	12,541	14,079	1,495	15.65%		1.12
Distressed Debt		5,000	785	4,300	84%	85	4,437	4,523	223	3.96%		1.05
Fund of Funds		40,175	6,051	34,947	85%	40,908	21,387	62,295	27,349	10.93%		1.78
Non-US		8,765	889	8,219	90%	7,835	4,690	12,525	4,306	7.61%		1.52
Opportunistic Credit		10,000	474	9,526	95%	6,017	2,733	8,750	-776	-2.69%		0.92
Secondary		10,000	540	9,460	95%	10,200	373	10,573	1,113	1.99%		1.12
Venture Capital		20,000	17,638	2,362	12%	0	2,772	2,772	410	N/M		N/A
<b>Total Portfolio:</b>		<b>154,940</b>	<b>76,234</b>	<b>81,397</b>	<b>51%</b>	<b>66,584</b>	<b>48,933</b>	<b>115,517</b>	<b>34,120</b>	<b>8.32%</b>	<b>11.23%</b>	<b>1.42</b>

Note: The benchmark represents the Cambridge Associates LLC median for the respective strategy and vintage year. At the vintage year level, the Cambridge Associates LLC Global Private Equity & VC<sup>®</sup> median is used for the respective vintage year.

# MCERA Real Estate Capital Budget & Implementation Plan

## 8% fund level target

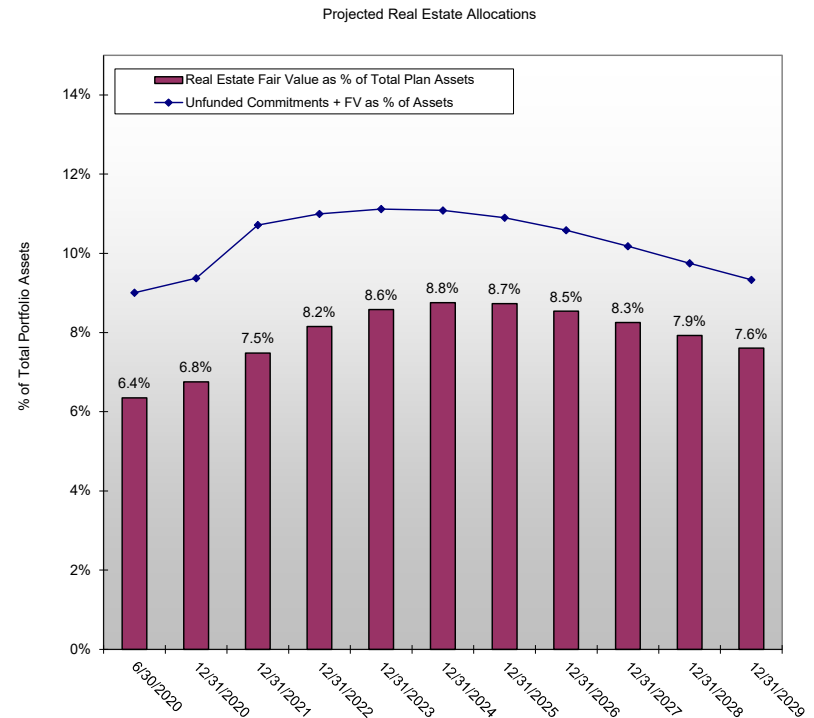
- Annual capital budget target of \$15 million, range of \$10-\$25 million
- Target 2-4 investments, range of \$5-\$10 million per inv
  - Average investment size of \$7 million
  - If an average of 2-4 GP partnership commitments per year, expect a total of 8-16 GP relationships over a 4 year fund raising cycle
- Retain core real estate exposure but lower it to 25% of the portfolio due to current valuations; use REITS as a substitute until funding private real estate investments is needed

## Performance comparisons:

- *Long term investment objective:* Earn a return premium over inflation (CPI-U + 5%)
- *Recommended primary asset class benchmark:* NCREIF NFI-ODCE; revisit over time as the structure of the portfolio changes
- *Recommended fund benchmarks:* Cambridge Associates strategy universe for the respective vintage years and each vintage year will be compared to Cambridge Associates Global Real Estate Index

## MCERA CY 2020 commitments:

- *Cerberus RE Debt – commercial RE debt (VY 2020), \$7 mm*
- *Starwood Fund XII – opportunistic RE (VY 2020), \$8 mm*



Note: MCERA’s existing real estate portfolio was modeled using vintage year drawdown/return of capital assumptions patterned after historical averages. Total fund growth rate of 5.5%.

# MCERA Real Estate Investment Structure & Portfolio Assessment

## Real estate investment structure (8% target, 6.7% actual as of Sep 2020)

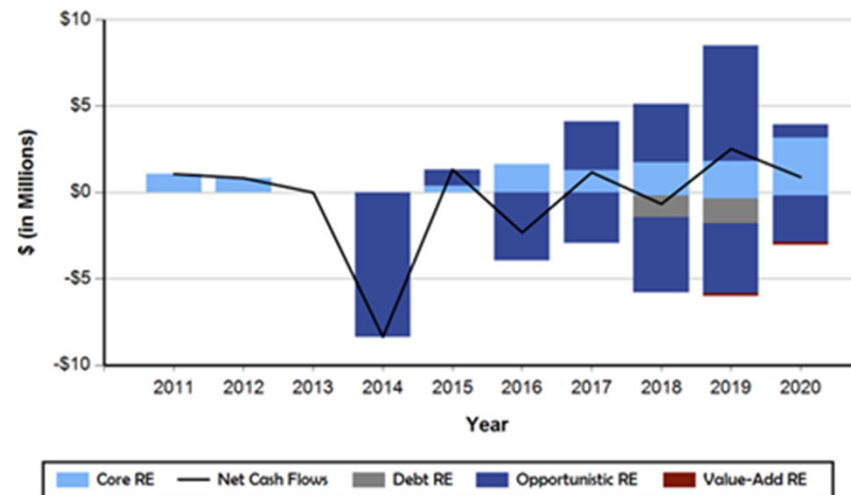
- MCERA invested in 1999 in a private core real estate fund; direct program began in 2014
- Distributions matched contributions over the past year as overall RE activity has declined

### Annual Summary

(in thousands)

	Total Partnerships	Total Commitments	(A) Contributions	(B) Distributions	(C) Fair Value	(B+C) Total Value	(B+C-A) Gain/ Loss	Net IRR	Benchmark
June 30, 2019	8	\$68,529	\$38,616	\$32,415	\$59,653	\$92,069	\$53,452	9.09%	8.92%
June 30, 2020	9	\$75,367	\$46,230	\$40,215	\$58,935	\$99,150	\$52,920	8.68%	8.62%
Annual Change	1	\$6,838	\$7,614	\$7,800	-\$718	\$7,081	-\$532		

Annual Cash Flow



Note: Net cash flow is the for the respective calendar year.

## MCERA Real Estate Performance – as of Jun 30, 2020

### Real Estate Portfolio

- MCERA began investing in the UBS Trumbull core real estate fund in 1999 and this represents the bulk of the real estate portfolio
  - Opportunistic funds began being added in 2014 and they are in the early stages of development with the VY 2016 fund now out of its “j-curve”
- Overall performance has met objectives, driven by the core RE fund; opportunistic fund performance is not meaningful

Partnership Name (\$000)	Strategy	(A) Commit. Amount	Unfund. Amount	(B) Cumulat. Cont.	% Drawn	(C)		(C+D) Total Value	(C+D-B) Gain/ Loss	Net IRR	IRR Bench.	TVPI
						Cumulat. Dist.	(D) Fair Value					
<b>Vintage Year 1999</b>												
UBS Trumbull Property Fund	Core RE	17,000	0	17,715	100%	26,447	36,764	63,212	45,497	8.58%	10.20%	3.57
<b>Vintage Year 1999 Total</b>		17,000	0	17,715	100%	26,447	36,764	63,212	45,497	8.58%	12.95%	3.57
<b>Vintage Year 2014</b>												
Greenfield Acquisition Partners VII, L.P.	Opportunistic RE	13,000	1,876	12,662	86%	10,341	8,942	19,284	6,622	12.27%	11.81%	1.52
<b>Vintage Year 2014 Total</b>		13,000	1,876	12,662	86%	10,341	8,942	19,284	6,622	12.27%	10.68%	1.52
<b>Vintage Year 2016</b>												
Patron Capital Fund V	Opportunistic RE	13,367	4,491	9,031	66%	3,312	6,255	9,567	536	3.60%	9.02%	1.06
<b>Vintage Year 2016 Total</b>		13,367	4,491	9,031	66%	3,312	6,255	9,567	536	3.60%	9.02%	1.06
<b>Vintage Year 2017</b>												
Carlyle Realty Partners VIII, L.P.	Opportunistic RE	5,000	3,598	1,516	28%	114	1,439	1,553	37	2.45%	2.95%	1.02
<b>Vintage Year 2017 Total</b>		5,000	3,598	1,516	28%	114	1,439	1,553	37	2.45%	6.34%	1.02
<b>Vintage Year 2018</b>												
Taconic CRE Dislocation Fund II	Debt RE	5,000	2,350	2,665	53%	0	3,052	3,052	387	N/M	N/M	1.15
AG Realty Value Fund X, L.P.	Opportunistic RE	5,000	3,513	1,474	30%	0	1,438	1,438	-36	N/M	N/M	0.98
<b>Vintage Year 2018 Total</b>		10,000	5,863	4,140	41%	0	4,490	4,490	351	N/M	N/M	1.08
<b>Vintage Year 2019</b>												
Rockpoint Real Estate Fund VI, L.P.	Opportunistic RE	5,000	4,185	815	16%	0	814	814	-1	N/M	N/M	1.00
Carmel Partners Investment Fund VII, L.P Value-Add RE		5,000	4,648	352	7%	0	230	230	-122	N/M	N/M	0.65
<b>Vintage Year 2019 Total</b>		10,000	8,834	1,166	12%	0	1,044	1,044	-122	N/M	N/M	0.90
<b>Vintage Year 2020</b>												
Cerberus Real Estate Debt Fund, L.P.	Debt RE	7,000	7,000	0	0%	0	0	0	0	N/M	N/M	0.00
<b>Vintage Year 2020 Total</b>		7,000	7,000	0	0%	0	0	0	0	N/M	N/M	0.00
<b>Total Portfolio:</b>		<b>75,367</b>	<b>31,662</b>	<b>46,230</b>	<b>58%</b>	<b>40,215</b>	<b>58,935</b>	<b>99,150</b>	<b>52,920</b>	<b>8.68%</b>	<b>8.62%</b>	<b>2.15</b>

Note: The benchmark at the total portfolio level is NCREIF NFI-ODCE . Private real estate benchmark at the fund level is the Cambridge Value Add or Opportunistic RE Indices while the Cambridge Global Real Estate Index at the vintage year level.



# MCERA Real Asset Capital Budget & Implementation Plan

## 5% fund level target

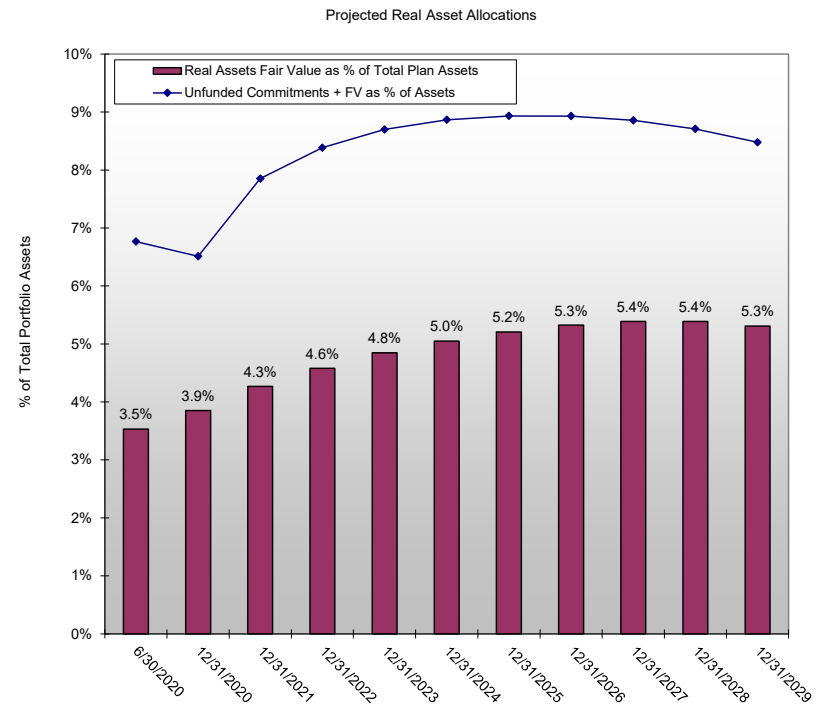
- Annual capital budget target of \$15 million, range of \$10-\$25 million
- Target 2-4 investments, range of \$5-\$10 million per inv
  - Average investment size of \$7 million
  - If an average of 2-4 GP partnership commitments per year, expect a total of 8-16 GP relationships over a 4 year fund raising cycle
- Portfolio targeted to be equally split between infrastructure and energy/natural resource funds

## Performance comparisons:

- *Long term investment objective:* Earn a return premium over inflation (CPI-U + 5%)
- *Recommended primary asset class benchmark:* 50/50 Cambridge Global Infrastructure/Cambridge Energy Upstream & Royalties and Private Energy Index
- *Recommended fund benchmarks:* Each fund will be compared to the Cambridge Associates strategy universe for the respective vintage years and each vintage year will be compared to the 50/50 index

## MCERA CY 2020 commitments (\$5 mm):

- *iSquared III* - global infrastructure (VY 2020)



Note: MCERA’s existing real asset portfolio was modeled using vintage year drawdown/return of capital assumptions patterned after historical category averages. Total fund growth rate of 5.5%.

# MCERA Real Assets Investment Structure & Portfolio Assessment

## Real assets investment structure (5% target, 5% actual as of Sep 2020)

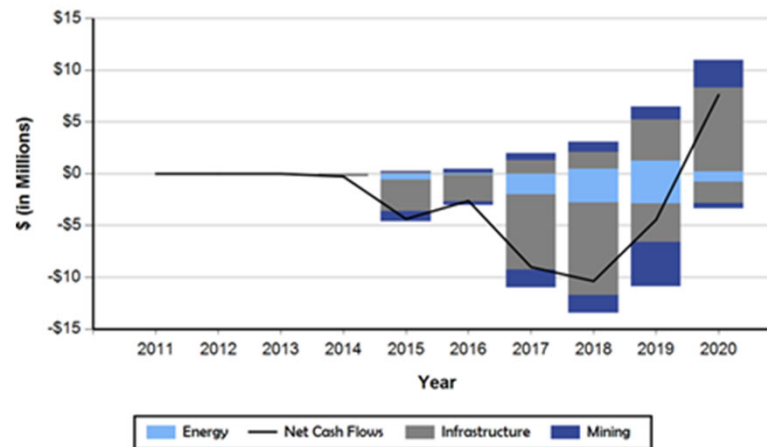
- Program is designed to be equally divided between private infrastructure and natural resource funds along with a public real asset component
- Private fund commitments began in 2014 to infrastructure and 2015 to natural resources
- The overall portfolio is immature with the funds in the early stage of development
  - Distributions exceed contributions by \$3 mm as the infrastructure funds returned capital

### Annual Summary

(in thousands)

	Total Partnerships	Total Commitments	(A) Contributions	(B) Distributions	(C) Fair Value	(B+C) Total Value	(B+C-A) Gain/ Loss	Net IRR	Benchmark
June 30, 2019	12	\$69,890	\$35,859	\$9,386	\$33,617	\$43,003	\$7,145	12.43%	1.06%
June 30, 2020	12	\$70,431	\$46,608	\$23,179	\$32,775	\$55,955	\$9,347	10.26%	-2.91%
Annual Change	0	\$541	\$10,749	\$13,793	-\$842	\$12,952	\$2,202		

Annual Cash Flow



Note: Net cash flow is the for the respective calendar year.

# MCERA Real Assets Performance – as of Jun 30, 2020

## Real Asset Portfolio

- MCERA began allocating to real assets in 2014 via direct fund commitments
- Portfolio is in its early stages of development so performance is not meaningful; the gains in infrastructure funds offset the losses in the energy funds; the VY 2017-19 funds are being built out

Partnership Name (\$000)	Strategy	(A) Commit. Amount	Unfund. Amount	(B) Cumulat. Cont.	% Drawn	(C)		(C+D) Total Value	(C+D-B) Gain/ Loss	Net IRR	IRR Bench.	TVPI
						Cumulat. Dist.	(D) Fair Value					
<b>Vintage Year 2014</b>												
KKR Global Infrastructure II	Infrastructure	10,000	532	10,815	95%	8,477	7,916	16,394	5,578	16.35%	6.17%	1.52
<b>Vintage Year 2014 Total</b>		<b>10,000</b>	<b>532</b>	<b>10,815</b>	<b>95%</b>	<b>8,477</b>	<b>7,916</b>	<b>16,394</b>	<b>5,578</b>	<b>16.35%</b>		<b>1.52</b>
<b>Vintage Year 2015</b>												
GSO Energy Select Opportunities Fund	Energy	7,500	3,486	4,470	54%	1,644	3,023	4,667	197	1.80%	1.46%	1.04
North Haven Infrastructure Partners II LP	Infrastructure	10,000	1,423	11,095	86%	6,322	7,231	13,553	2,458	9.98%	6.56%	1.22
Taurus Mining Finance Fund	Mining	5,000	682	5,195	86%	3,227	2,660	5,887	692	8.64%	N/A	1.13
<b>Vintage Year 2015 Total</b>		<b>22,500</b>	<b>5,591</b>	<b>20,760</b>	<b>75%</b>	<b>11,193</b>	<b>12,914</b>	<b>24,107</b>	<b>3,348</b>	<b>7.69%</b>		<b>1.16</b>
<b>Vintage Year 2016</b>												
Taurus Mining Finance Annex Fund	Mining	5,000	1,135	4,471	77%	2,743	2,775	5,518	1,047	21.67%	N/A	1.23
<b>Vintage Year 2016 Total</b>		<b>5,000</b>	<b>1,135</b>	<b>4,471</b>	<b>77%</b>	<b>2,743</b>	<b>2,775</b>	<b>5,518</b>	<b>1,047</b>	<b>21.67%</b>		<b>1.23</b>
<b>Vintage Year 2017</b>												
EnCap Energy Capital Fund XI, L.P.	Energy	5,000	3,493	1,507	30%	0	896	896	-611	-34.31%	-6.79%	0.59
ISQ Global Infrastructure Fund II	Infrastructure	5,000	2,002	3,368	60%	371	3,324	3,695	327	10.89%	N/A	1.10
<b>Vintage Year 2017 Total</b>		<b>10,000</b>	<b>5,494</b>	<b>4,875</b>	<b>45%</b>	<b>371</b>	<b>4,220</b>	<b>4,591</b>	<b>-284</b>	<b>-5.80%</b>		<b>0.94</b>
<b>Vintage Year 2018</b>												
Ardian Infrastructure Fund V	Infrastructure	4,931	4,300	659	13%	20	546	566	-93	N/M	N/M	N/A
EnCap Flatrock Midstream IV, L.P.	Energy	3,000	1,982	1,096	34%	78	1,125	1,203	108	6.20%	-1.27%	1.10
KKR Global Infrastructure Investors III	Infrastructure	5,000	3,272	1,843	35%	115	1,612	1,727	-116	N/M	N/M	N/A
<b>Vintage Year 2018 Total</b>		<b>12,931</b>	<b>9,554</b>	<b>3,598</b>	<b>26%</b>	<b>213</b>	<b>3,283</b>	<b>3,496</b>	<b>-102</b>	<b>-2.85%</b>		<b>0.97</b>
<b>Vintage Year 2019</b>												
Global Energy & Power Infrastructure Fund III	Energy	5,000	3,886	1,216	22%	182	1,123	1,304	89	N/M	N/M	1.07
Tailwater Energy Fund IV, LP	Energy	5,000	4,126	873	17%	0	544	544	-329	N/M	N/M	0.62
<b>Vintage Year 2019 Total</b>		<b>10,000</b>	<b>8,012</b>	<b>2,089</b>	<b>20%</b>	<b>182</b>	<b>1,667</b>	<b>1,849</b>	<b>-240</b>	<b>N/M</b>		<b>0.89</b>
<b>Total Portfolio:</b>		<b>70,431</b>	<b>30,318</b>	<b>46,608</b>	<b>57%</b>	<b>23,179</b>	<b>32,775</b>	<b>55,955</b>	<b>9,347</b>	<b>10.26%</b>	<b>-2.91%</b>	<b>1.20</b>
<b>Portfolio Strategy Totals</b>												
Energy		20,500	13,086	7,946	36%	1,723	5,588	7,311	-635	-4.40%		0.92
Infrastructure		25,000	5,227	23,753	79%	14,914	16,760	31,673	7,920	13.18%		1.33
Non-US		24,931	12,005	14,909	52%	6,543	10,428	16,971	2,062	12.14%		1.14
<b>Total Portfolio:</b>		<b>70,431</b>	<b>30,318</b>	<b>46,608</b>	<b>57%</b>	<b>23,179</b>	<b>32,775</b>	<b>55,955</b>	<b>9,347</b>	<b>10.26%</b>	<b>-2.91%</b>	<b>1.20</b>

Note: Benchmark is 50% S&P Natural Resources and 50% S&P Infrastructure. Benchmarks for individual funds are the respective Cambridge strategy benchmark.

# MCERA Hedge Fund Performance – as of Oct 31, 2020

Fund	Market Value	Actual %	Oct	QTD	YTD	Returns				Std Dev	Sharpe Ratio	Incep Date
						1 Year	3 Year	5 Year	Incep			
<b>Market Neutral</b>												
KLS Diversified Fund LP	8,088,341	8.6%	0.95%	0.95%	-11.03%	-10.71%	-3.24%	-	-3.05%	11.56%	-0.36	Oct-17
Laurion Capital, Ltd.	10,514,667	11.2%	-0.92%	-0.92%	19.51%	18.51%	-	-	11.05%	7.96%	1.14	Jul-18
Market Neutral - HF Total	18,603,008	19.8%	-0.12%	-0.12%	-0.18%	-0.27%	1.99%	-	2.05%	5.67%	0.07	Oct-17
HFRI Relative Value (Total) Index			0.48%	0.48%	-1.33%	0.37%	2.11%	-	2.11%	6.67%	0.08	Oct-17
<b>Credit/Distressed</b>												
Silver Point Capital Fund, L.P.	12,840,704	13.7%	0.40%	0.40%	4.03%	7.52%	-	-	2.50%	7.81%	0.12	Dec-17
Credit/Distressed - HF Total	12,840,704	13.7%	0.40%	0.40%	4.03%	7.52%	-	-	2.50%	7.81%	0.12	Dec-17
HFRI ED: Distressed/Restructuring Index			1.10%	1.10%	2.09%	2.47%	-	-	1.59%	8.35%	0.01	Dec-17
<b>Event Driven</b>												
Taconic Opportunity Fund L.P.	12,199,024	13.0%	0.13%	0.13%	-3.20%	-2.73%	-	-	0.52%	7.05%	-0.12	Dec-18
Event Driven - HF Total	12,199,024	13.0%	0.13%	0.13%	-3.20%	-2.73%	-	-	0.52%	7.05%	-0.12	Dec-18
HFRI Event-Driven (Total) Index			0.49%	0.49%	-1.58%	0.84%	-	-	1.73%	11.16%	0.07	Dec-18
<b>Equity Long/Short</b>												
Archipelago Partners, L.P.	12,597,582	13.4%	-0.38%	-0.38%	1.03%	6.27%	4.50%	-	4.81%	8.37%	0.39	Sep-17
Marshall Wace Funds LP - MW Eureka (US) Fund	3,599,498	3.8%	0.93%	0.93%	6.02%	9.87%	-	-	6.45%	6.13%	0.75	Dec-17
Marshall Wace Funds LP - MW Global Opportunities (US) Fu	9,581,627	10.2%	0.73%	0.73%	-	-	-	-	6.46%	4.77%	-	Apr-20
Equity Long/Short - HF Total	25,778,707	27.5%	0.21%	0.21%	1.23%	6.14%	4.74%	-	5.03%	7.36%	0.46	Sep-17
HFRI Equity Hedge (Total) Index			0.90%	0.90%	3.45%	7.81%	3.76%	-	4.36%	10.52%	0.29	Sep-17
<b>Global Macro-Discretionary</b>												
Graham Absolute Return Trading Ltd.	7,346,848	7.8%	-0.17%	-0.17%	-3.48%	-2.41%	1.75%	-	1.60%	9.81%	0.03	Sep-17
Global Macro-Discretionary - HF Total	7,346,848	7.8%	-0.17%	-0.17%	-3.48%	-2.41%	1.75%	-	1.60%	9.81%	0.03	Sep-17
HFRI Macro (Total) Index			-0.70%	-0.70%	-0.23%	0.70%	0.78%	-	1.08%	4.68%	-0.13	Sep-17
<b>Global Macro-Systematic</b>												
Winton Fund Limited	4,997,456	5.3%	-0.27%	-0.27%	-19.83%	-19.29%	-5.61%	-	-5.61%	8.58%	-0.85	Nov-17
Global Macro-Systematic - HF Total	4,997,456	5.3%	-0.27%	-0.27%	-19.83%	-19.29%	-5.61%	-	-5.61%	8.58%	-0.85	Nov-17
HFRI Macro (Total) Index			-0.70%	-0.70%	-0.23%	0.70%	0.78%	-	0.78%	4.65%	-0.20	Nov-17
<b>Multi-Strategy</b>												
Sculptor Domestic Partners II, L.P.	12,116,995	12.9%	-1.02%	-1.02%	11.39%	16.29%	8.16%	8.48%	7.30%	7.13%	0.85	Jul-14
Multi-Strategy - HF Total	12,116,995	12.9%	-1.02%	-1.02%	11.39%	16.29%	8.16%	8.48%	7.30%	7.13%	0.85	Jul-14
HFRI Relative Value (Total) Index			0.48%	0.48%	-1.33%	0.37%	2.11%	3.37%	2.68%	5.03%	0.31	Jul-14
MCERA Hedge Fund Portfolio	93,882,743	100.0%	-0.05%	-0.05%	-0.11%	2.20%	2.47%	3.66%	3.38%	5.36%	0.42	Jul-14
<b>Benchmarks</b>												
HFRI Fund of Funds Composite Index			0.24%	0.24%	2.79%	5.43%	2.57%	2.96%	2.50%	5.09%	0.27	Jul-14
<b>Market Indices</b>												
Libor3Month			0.02%	0.02%	0.56%	0.88%	1.83%	1.47%	1.22%	0.25%	-	Jul-14
Bloomberg Barclays US Aggregate Bond Index			-0.45%	-0.45%	6.32%	6.19%	5.07%	4.09%	3.72%	3.10%	0.81	Jul-14
Bloomberg Barclays US High Yield Bond Index			0.51%	0.51%	1.13%	3.49%	4.23%	6.32%	4.52%	7.50%	0.47	Jul-14
S&P 500 TR			-2.66%	-2.66%	2.77%	9.71%	10.43%	11.71%	10.63%	14.13%	0.70	Jul-14
MSCI AC World Index Free - Net			-2.43%	-2.43%	-1.09%	4.89%	5.52%	8.11%	6.07%	13.78%	0.41	Jul-14
MSCI EAFE - Net			-3.99%	-3.99%	-10.80%	-6.86%	-1.24%	2.85%	1.02%	13.72%	0.06	Jul-14
MSCI EMF (Emerging Markets Free) - Net			2.06%	2.06%	0.87%	8.25%	1.94%	7.92%	3.21%	17.15%	0.20	Jul-14

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