# Callan

September 28, 2021

Pennsylvania State Employees' Retirement System – 457(b) Plan

Second Quarter 2021

**Executive Summary** 

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# Callan

**Market Environment** 

## Continued Surge in Global Equity Markets in 2Q21

#### Global equity continued to surge in 2Q:

 Year-over-year returns from June are eyepopping:

-S&P 500: +41%

-MSCI World ex-USA: +34%

– Emerging Markets: +41%

-U.S. Small Cap: +62% (!)

- The initial recovery was concentrated in a few stocks (FAANG) and U.S. mega cap.
- Market rotation to small cap and value with the flip from a "COVID trade" to a "GDP growth trade" in November, with the announcement of vaccines
- Economic recovery now looking very strong in 2021, into 2022. Fed projects GDP growth of 7.0% in 2021, although initial GDP estimate for 2Q is 6.5% and 1Q was revised down to 6.3%.
- Initial distribution challenges and resistance to vaccination have stalled the achievement of widespread inoculation in the U.S.
   Restricted availability of the vaccine outside the U.S. means inoculation rates have been held back in countries around the globe.

#### Returns for Periods ended 6/30/21

	1 Quarter	1 Year	5 Years	10 Years	25 Years
U.S. Equity					
Russell 3000	8.24	44.16	17.89	14.70	9.87
S&P 500	8.55	40.79	17.65	14.84	9.76
Russell 2000	4.29	62.03	16.47	12.34	9.33
Global ex-U.S. Equity					
MSCI World ex USA	5.65	33.60	10.36	5.70	5.37
MSCI Emerging Markets	5.05	40.90	13.03	4.29	
MSCI ACWI ex USA Small Cap	6.35	47.04	11.97	7.02	6.60
Fixed Income					
Bloomberg Barclays Aggregate	1.83	-0.33	3.03	3.39	5.14
90-day T-Bill	0.00	0.09	1.17	0.63	2.17
Bloomberg Barclays Long Gov/Credit	6.44	-1.86	5.45	7.30	7.48
Bloomberg Barclays Global Agg ex-US	0.92	4.60	1.63	0.99	3.79
Real Estate					
NCREIF Property	1.72	5.42	5.74	8.59	9.04
FTSE Nareit Equity	12.02	38.02	6.31	9.41	10.23
Alternatives					
CS Hedge Fund	3.02	16.60	5.63	4.24	7.05
Cambridge Private Equity*	9.48	54.21	18.83	15.07	15.52
Bloomberg Commodity	13.30	45.61	2.40	-4.44	1.31
Gold Spot Price	3.26	-1.61	6.05	1.66	6.33
Inflation - CPI-U	2.57	5.39	2.43	1.87	2.22

Sources: Bloomberg, Bloomberg Barclays, Callan, Cambridge, Credit Suisse, FTSE Russell, MSCI, NCREIF, S&P Dow Jones Indices



<sup>\*</sup>Cambridge PE data through 03/31/21

## **Market Environment: 2Q21**

Strong growth worldwide, but continued uncertainty from uneven vaccine rollout

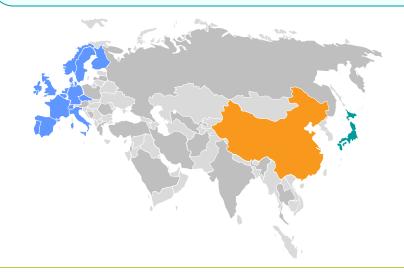
#### U.S.

- -2020 GDP loss of 3.4% for the year is the deepest recession in 75 years. GDP rose 6.5% in the second quarter, and the Fed still expects 7.0% growth for the year.
- Consumer spending, non-residential investment, and exports drove GDP gains. Consumers ramped up spending on food services, accommodations, and recreation services (gambling!), along with motor vehicles.
- Unemployment dropped to 6.0% in March but held steady at 5.9% through June, despite another large monthly gain of 850,000 jobs.
  - Considerable slack left in the job market, as measured by number of jobs still lost and the number unemployed compared to pre-pandemic levels.

#### Global

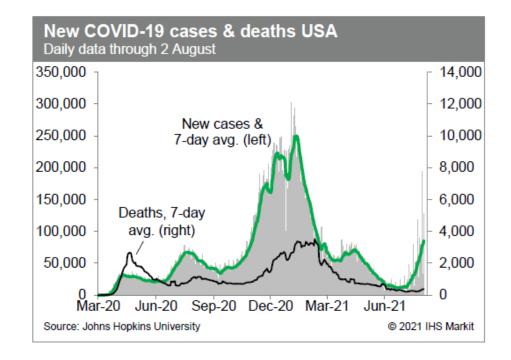
- Euro zone GDP expanded 8.2% in 2Q21, after shrinking in 4Q20 and 1Q21.
- U.K. GDP on track for 7.2% growth in 2021, per OECD, although the organization warns the U.K. may face a longer road to recovery than the euro zone due to the double-whammy of the pandemic and Brexit.
- Japan's economy is expected to grow much more modestly than other developed nations in 2021; OECD expects 2.6% for the year.
- China's GDP grew 5.3% in 2Q21, after slowing to just
   1.6% in 1Q21. China was one of the few economies to see growth in GDP during 2020.





## Will the Delta Variant Derail U.S. and Global Growth?

- The Delta variant of the COVID-19 virus is driving a sharp upswing in cases and hospitalizations.
  - Trend is likely to worsen before it improves.
  - Delta variant now accounts for 83% of new cases, and represents a "new" pandemic among the unvaccinated.
    - Largest increases in cases occurring in areas with low vaccination rates
  - New case loads exceed those seen last summer by a substantial amount.
- New official containment measures may be unpopular and unlikely, but voluntary reductions in consumer and business activity (and spending) could slow growth in 2Q21.
  - Estimates of the impact on GDP range from -0.25% to -1%
  - Real risk of a more pronounced slowdown, depending on the shape of the surge in cases



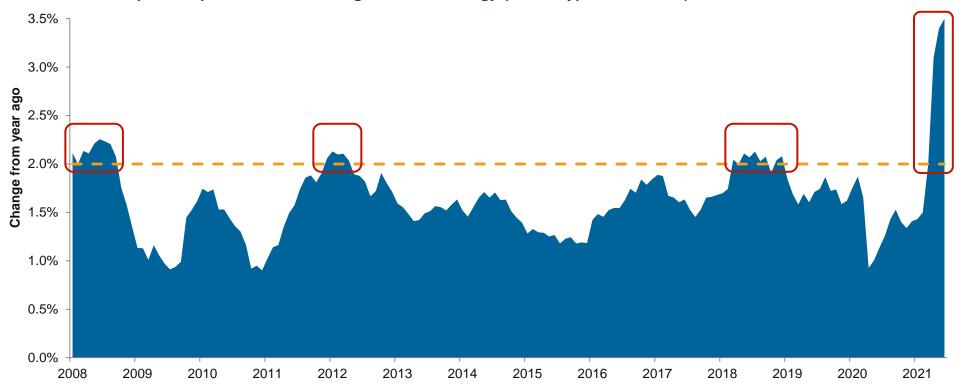




### The Fed's New Inflation Framework

Targeting core personal consumption expenditures index

#### Personal Consumption Expenditures Excluding Food and Energy (Chain-Type Price Index)



- Inflation worries are in the headlines.
- Inflation has consistently undershot the Fed's 2% target, prompting a change in its inflation framework.
- Fed's aim is to achieve an average of 2% inflation over the medium term, not specifically defined.
- -PCE is the Fed's target, different from and typically lower than CPI-U, which flashed a year-over-year change of 3.5% in June 2021.

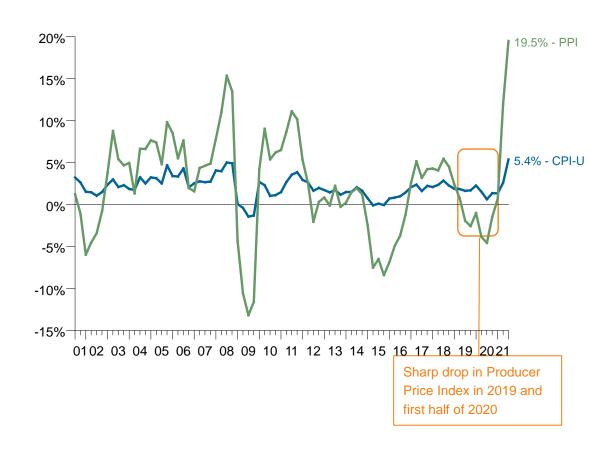


## **Inflation Rebounds and Spurs Headline Concerns**

CPI and PPI shoot up in 2Q21, but off a depressed base from one year ago

- Inflation fell sharply at the onset of the pandemic, starting in February 2020.
  - The recovery to pre-pandemic levels in the Consumer Price Index required a 2.6% year-over-year change
  - -5.4% jump in CPI-U represents kinks in supply chains and labor markets after a year of global economic disruption and shutdown; many markets cannot simply restart instantaneously
  - Producer prices had been tumbling for more than a year prior to the pandemic; recovery to 2018 price *levels* generates eye-popping year-over-year percent change that misrepresents whether we're seeing a "true" spike in inflation.

#### Consumer and Producer Price Indexes – Inflation Year-Over-Year



# **Diversification Remains Key Risk Control**

### Periodic Table of Investment Returns

2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2 Qtrs. 2021
Non-U.S. Fixed	Emerging Markets	Emerging Markets	Emerging Markets	Emerging Markets	Emerging Markets	U.S. Fixed	Emerging Markets	Small Cap	Real Estate Funds	Emerging Markets	Small Cap	Large Cap	Real Estate Funds	Small Cap	Emerging Markets	Real Estate Funds	Large Cap	Small Cap	Small Cap
22.37%	55.82%	25.55%	34.00%	32.17%	39.38%	5.24%	78.51%	26.85%	14.96%	18.23%	38.82%	13.69%	13.95%	21.31%	37.28%	7.36%	31.49%	19.96%	17.54%
U.S. Fixed	Small Cap	Non-U.S. Equity	Real Estate Funds	Non-U.S. Equity	Real Estate Funds	Non-U.S. Fixed	High Yield	Emerging Markets	U.S. Fixed	Non-U.S. Equity	Large Cap	Real Estate Funds	Large Cap	High Yield	Non-U.S. Equity	Cash Equivalent	Small Cap	Large Cap	Large Cap
10.26%	47.25%	20.38%	20.15%	25.71%	14.84%	4.39%	58.21%	18.88%	7.84%	16.41%	32.39%	11.46%	1.38%	17.13%	24.21%	1.87%	25.52%	18.40%	15.25%
Real Estate Funds	Non-U.S. Equity	Small Cap	Non-U.S. Equity	Small Cap	Hedge Funds	Cash Equivalent	Non-U.S. Equity	Real Estate Funds	High Yield	Small Cap	Non-U.S. Equity	U.S. Fixed	U.S. Fixed	Large Cap	Large Cap	U.S. Fixed	Non-U.S. Equity	Emerging Markets	Non-U.S. Equity
4.57%	39.42%	18.33%	14.47%	18.37%	12.56%	2.06%	33.67%	15.26%	4.98%	16.35%	21.02%	5.97%	0.55%	11.96%	21.83%	0.01%	22.49%	18.31%	9.92%
Hedge Funds	High Yield	Non-U.S. Fixed	Hedge Funds	Large Cap	Non-U.S. Equity	Real Estate Funds	Small Cap	High Yield	Non-U.S. Fixed	Large Cap	Real Estate Funds	Small Cap	Cash Equivalent	Emerging Markets	Small Cap	High Yield	Emerging Markets	Non-U.S. Fixed	Emerging Markets
3.04%	28.97%	12.54%	7.61%	15.79%	12.44%	-10.70%	27.17%	15.12%	4.36%	16.00%	12.90%	4.89%	0.05%	11.19%	14.65%	-2.08%	18.44%	10.11%	7.45%
Cash Equivalent	Large Cap	Real Estate Funds	Large Cap	Real Estate Funds	Non-U.S. Fixed	Hedge Funds	Large Cap	Large Cap	Large Cap	High Yield	Hedge Funds	Hedge Funds	Hedge Funds	Real Estate Funds	Non-U.S. Fixed	Non-U.S. Fixed	High Yield	Non-U.S. Equity	Hedge Funds
1.78%	28.68%	12.00%	4.91%	15.27%	11.03%	-19.07%	26.47%	15.06%	2.11%	15.81%	9.73%	4.13%	-0.71%	7.79%	10.51%	-2.15%	14.32%	7.59%	5.96%
	Non-U.S. Fixed	High Yield	Small Cap	Hedge Funds	U.S. Fixed	High Yield	Hedge Funds	Hedge Funds	Cash Equivalent	Real Estate Funds	High Yield	High Yield	Non-U.S. Equity	Non-U.S. Equity	High Yield	Hedge Funds	Hedge Funds	U.S. Fixed	Real Estate Funds
-1.37%	19.36%	11.13%	4.55%	13.86%	6.97%	-26.16%	18.57%	10.95%	0.10%	9.79%	7.44%	2.45%	-3.04%	2.75%	7.50%	-3.19%	9.31%	7.51%	5.64%
Emerging Markets	Hedge Funds	Large Cap	Cash Equivalent	High Yield	Large Cap	Small Cap	Non-U.S. Fixed	Non-U.S. Equity	Hedge Funds	Hedge Funds	Cash Equivalent	Cash Equivalent	Small Cap	U.S. Fixed	Hedge Funds	Large Cap	U.S. Fixed	High Yield	High Yield
-6.16%	15.44%	10.88%	3.06%	11.85%	5.49%	-33.79%	7.53%	8.95%	-2.52%	7.67%	0.07%	0.04%	-4.41%	2.65%	7.12%	-4.38%	8.72%	7.11%	3.62%
Non-U.S. Equity	Real Estate Funds	Hedge Funds	High Yield	Non-U.S. Fixed	Cash Equivalent	Large Cap	U.S. Fixed	U.S. Fixed	Small Cap	U.S. Fixed	U.S. Fixed	Emerging Markets	High Yield	Non-U.S. Fixed	Real Estate Funds	Small Cap	Non-U.S. Fixed		Cash Equivalent
-15.80%	8.28%	9.64%	2.74%	8.16%	5.00%	-37.00%	5.93%	6.54%	-4.18%	4.21%	-2.02%	-2.19%	-4.47%	1.49%	6.66%	-11.01%	5.09%	6.36%	0.02%
Small Cap	U.S. Fixed	U.S. Fixed	U.S. Fixed	Cash Equivalent	High Yield	Non-U.S. Equity	Cash Equivalent	Non-U.S. Fixed	Non-U.S. Equity	Non-U.S. Fixed	Emerging Markets	Non-U.S. Fixed	Non-U.S. Fixed	Hedge Funds	U.S. Fixed	Non-U.S. Equity	Real Estate Funds	Cash Equivalent	U.S. Fixed
-20.48%	4.10%	4.34%	2.43%	4.86%	1.87%	-43.56%	0.21%	4.95%	-12.21%	4.09%	-2.60%	-3.09%	-6.02%	1.25%	3.54%	-14.09%	4.39%	0.67%	-1.60%
		Cash Equivalent	Non-U.S. Fixed	U.S. Fixed	Small Cap	Emerging Markets	Real Estate Funds	Cash Equivalent	Emerging Markets	Cash Equivalent	Non-U.S. Fixed	Non-U.S. Equity	Emerging Markets	Cash Equivalent	Cash Equivalent	Emerging Markets	Cash Equivalent	Real Estate Funds	Non-U.S. Fixed
		1.33%	-8.65%	4.33%	-1.57%	-53.33%	-30.40%	0.13%	-18.42%	0.11%	-3.08%	-4.32%	-14.92%	0.33%	0.86%	-14.57%	2.28%	0.34%	-4.42%

Bloomberg Barclays Corp High Yield
 Bloomberg Barclays Global Aggregate ex US
 Bloomberg Barclays US Aggregate



 <sup>◆</sup> Credit Suisse Hedge Fund
 ◆ ICE BofAML US 3-Month Treasury Bill
 ◆ MSCI Emerging Markets
 ◆ MSCI World ex USA

<sup>●</sup> NFI-ODCE (value-weighted net) ● Russell 2000 ● S&P 500

## **DOL Offers Tips on Cybersecurity Best Practices**

- The U.S. Department of Labor (DOL) issued guidance on cybersecurity best practices in two new publications, which provide a framework for plan sponsors to follow when structuring their own cybersecurity practices and reviewing service providers.
- The first <u>document</u> details steps plan sponsors should follow to hire a service provider with strong cybersecurity practices and includes the following tips:
- 1. Ask about the service provider's information security standards, practices and policies, and audit results, and compare them to the industry standards adopted by other financial institutions.
- 2. Look for service providers that follow a recognized standard for information security and use an outside auditor to review and validate cybersecurity.
- 3. Ask the service provider how it validates its practices, and what levels of security standards it has met and implemented. Look for contract provisions that give you the right to review audit results demonstrating compliance with the standard.
- 4. Evaluate the service provider's track record in the industry, including information security incidents, other litigation, and legal proceedings related to the vendor's services.
- 5. Ask whether the service provider has experienced past security breaches, what happened, and how the service provider responded.
- 6. Find out if the service provider has insurance policies that would cover losses caused by cybersecurity and identity theft breaches (including breaches caused by internal threats, such as misconduct by the service provider's employees or contractors, and breaches caused by external threats, such as a third party hijacking a plan participant's account).
- 7. When you contract with a service provider, make sure that the contract requires ongoing compliance with cybersecurity and information security standards—and beware contract provisions that limit the service provider's responsibility for IT security breaches. Also, try to include terms in the contract that would enhance cybersecurity protection for the plan and its participants.
- The second document provides tips for cybersecurity program <u>best practices</u> that largely mirror accepted industry best practices, such as those advanced by the SPARK Data Security Oversight Board.
- The new guidance from the DOL is a welcome aid to plan sponsors facing uncertain boundaries with respect to their fiduciary obligations in an increasingly important area of overall plan governance. Sponsors would be wise to review these tips to ensure that, at a minimum, these recommendations are incorporated into their vendor selection processes, and internal governance, as appropriate.



## **Defined Contribution Industry Developments**

## 2Q21 Key Themes

### **Congress Looks to Build Upon SECURE 1.0**

- On May 5, the Ways and Means Committee of the U.S. House of Representatives voted unanimously to advance the Securing a Strong Retirement Act, and on May 20, the Senate introduced the Retirement Security and Savings Act.
- The bills were similar in scope and could serve as the basis of a SECURE 2.0 package
- Key provisions in both bills included permitting matching contributions on behalf of employees who are repaying student loans; increasing the starting age for required minimum distributions; and creating a retirement savings "lost-and-found" database.
- CITs would be allowed in 403(b) plans, which could result in fee savings and use of stable value funds.
- Both bills still need to pass through their respective chambers before SECURE 2.0 can become a reality.

### Déjà vu: GAO Asked to Review Target Date Fund Market

- On May 7, a House of Representatives committee requested the Government Accountability Office (GAO) conduct a review of target date funds (TDFs).
- The request signaled 14 specific areas the House committee would like the GAO to examine, including risk and fees levels present in the universe of TDFs.
- The request for review marks the first serious attention by lawmakers into TDFs since the release of the U.S.
   Department of Labor's 2013 "Target Date Retirement Funds: Tips for ERISA Plan Fiduciaries."

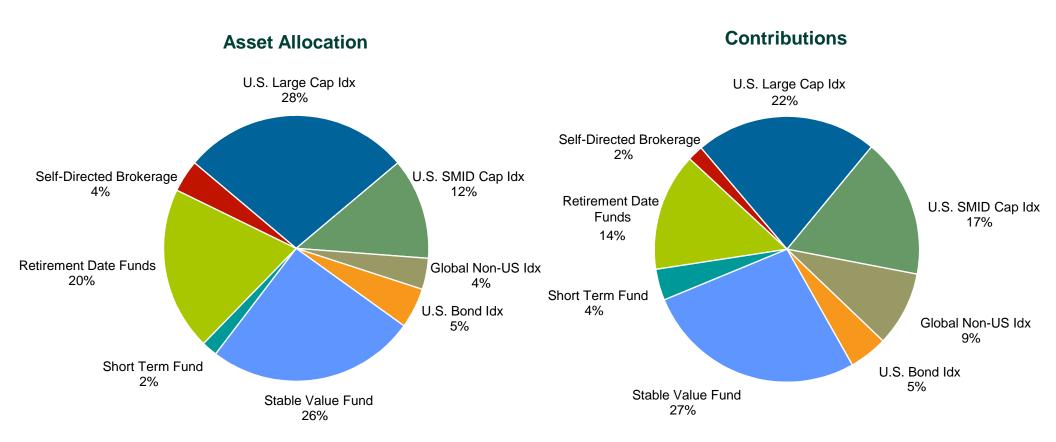


# Callan

PA SERS 457(b) Plan Performance Review

# 457(b) Plan Asset Allocation & Contributions

As of June 30, 2021





# **Asset Allocation**

As of June 30, 2021

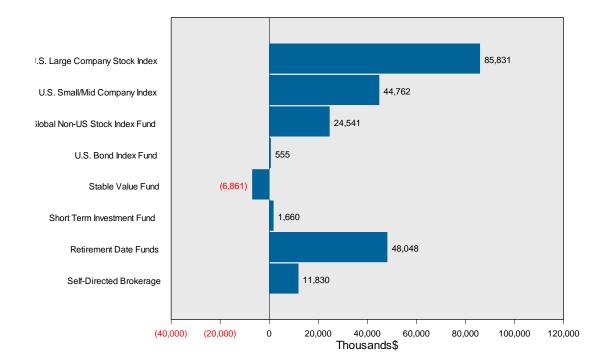
ie 30, 202 i	June 30	, 2021			March 31	, 2021
N	larket Value	% of Total	Net New Inv.	Inv. Return	Market Value	% of Total
	\$(000)	Weight	\$(000)	\$(000)	\$(000)	Weight
SERS Retirement Date Funds	\$928,672	19.95%	\$1,367	\$46,681	\$880,624	19.81%
SERS Post Retirement Fund	268,079	5.76%	(4,225)	10,766	261,538	5.88%
SERS 2025 Retirement Fund	165,955	3.56%	(2,011)	7,495	160,470	3.61%
SERS 2030 Retirement Fund	155,680	3.34%	2,350	7,851	145,479	3.27%
SERS 2035 Retirement Fund	132,220	2.84%	462	7,462	124,296	2.80%
SERS 2040 Retirement Fund	83,315	1.79%	1,021	5,080	77,215	1.74%
SERS 2045 Retirement Fund	64,609	1.39%	1,026	4,184	59,399	1.34%
SERS 2050 Retirement Fund	39,197	0.84%	888	2,593	35,715	0.80%
SERS 2055 Retirement Fund	12,280	0.26%	849	791	10,639	0.24%
SERS 2060 Retirement Fund	4,518	0.10%	413	286	3,820	0.09%
SERS 2065 Retirement Fund	2,819	0.06%	594	173	2,052	0.05%
SERS U.S. Equity	\$1,865,978	40.08%	\$(9,004)	\$139,598	\$1,735,384	39.04%
SERS U.S. Large Company Index	1,292,612	27.76%	(16,362)	102,194	1,206,781	27.15%
SERS U.S. SMID Company Index	573,366	12.32%	7,359	37,404	528,604	11.89%
SERS Non-U.S. Equity	\$174,910	3.76%	\$16,245	\$8,296	\$150,370	3.38%
SERS Global Non-US IdxFund	174,910	3.76%	16,245	8,296	150,370	3.38%
SERS Fixed Income	\$1,504,429	32.31%	<b>\$(13,044)</b>	\$8,399	\$1,509,075	33.95%
SERS Short Term Investment Fund		1.88%	1,695	<b>46,399</b> (35)	\$1,509,075 86,062	1.94%
SERS Stable Value Fund	1,189,350	25.55%	(11,343)	` '	1,196,211	26.91%
SERS U.S. Bond Index Fund	227,358	4.88%	(3,396)	4,483 3,951	226,803	5.10%
SERS 0.5. Bolla Illaex Fulla	221,330	4.00 /0	(3,390)	3,931	220,003	5.10%
Self-Directed Brokerage						
Self-Directed Brokerage Account	181,578	3.90%	(310)	12,140	169,748	3.82%
SERS 457(b) Total Fund	\$4,655,568	100.0%	\$(4,746)	\$215,113	\$4,445,201	100.0%



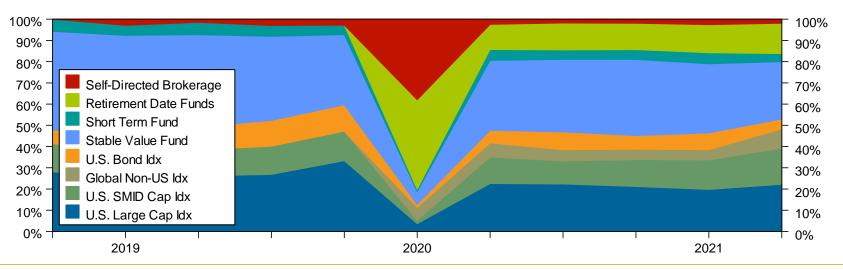
# **Changes in Market Values and Contributions**

As of June 30, 2021

- The chart to the right shows the net change in fund values across the various investment options for the quarter. The change in value for each fund is the result of:
  - 1. Investment returns;
  - Participant contributions, employer match, distributions, withdrawals; and
  - 3. Transfers between funds by participants.



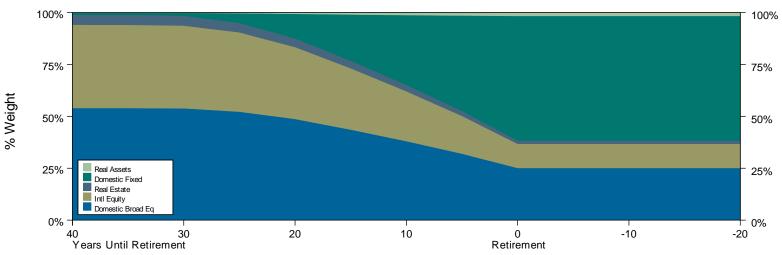
#### **Historical Allocation of Contributions**



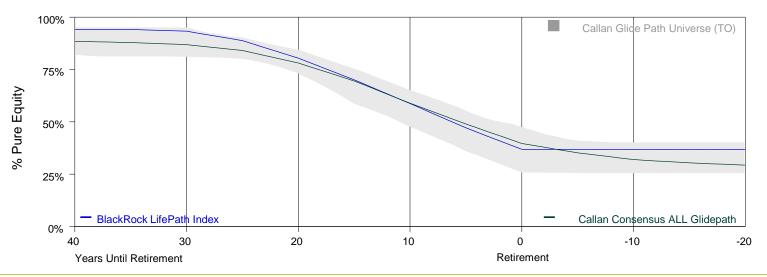
## **Blackrock LifePath Retirement Funds**

Glidepath and Equity Rolldown Exposure as of June 30, 2021

#### BlackRock LifePath Retirement Funds Glidepath



### BlackRock LifePath Retirement Funds Equity Rolldown Exposure



As of June 30, 2021

ne 30, 2021		Year		Last	Last	
	Last	to	Last	3	5 Vaara	
	Quarter	Date	Year	Years	Years	
Net Performance						
Retirement Date Funds	4.4007	4.500/	45.000/	0.400/	7.000/	
SERS Post Retirement Fund	4.16%	4.53%	15.80%	9.42%	7.82%	
BlackRock Post Retirement Index	4.13%	4.51%	15.74%	9.36%	7.77%	
Callan Tgt Date Ret Inc	3.45%	3.94%	14.03%	8.09%	6.79%	
SERS 2025 Retirement Fund	4.73%	6.00%	20.20%	10.32%	9.46%	
BlackRock 2025 Index	4.70%	6.00%	20.16%	10.25%	9.38%	
Callan Target Date 2025	4.69%	6.75%	21.79%	10.39%	9.92%	
SERS 2030 Retirement Fund	5.39%	7.69%	25.04%	11.43%	10.67%	
BlackRock 2030 Index	5.37%	7.68%	25.02%	11.34%	10.57%	
Callan Target Date 2030	5.26%	8.06%	25.90%	11.44%	11.12%	
SERS 2035 Retirement Fund	6.02%	9.34%	29.86%	12.49%	11.85%	
BlackRock 2035 Index	6.00%	9.32%	29.81%	12.39%	11.73%	
Callan Target Date 2035	5.79%	9.48%	29.93%	12.34%	12.10%	
SERS 2040 Retirement Fund	6.58%	10.83%	34.34%	13.41%	12.88%	
BlackRock 2040 Index	6.55%	10.79%	34.23%	13.30%	12.74%	
Callan Target Date 2040	6.15%	10.81%	33.62%	12.92%	12.86%	
SERS 2045 Retirement Fund	7.05%	12.05%	37.96%	14.19%	13.64%	
BlackRock 2045 Index	7.02%	12.00%	37.86%	14.03%	13.46%	
Callan Target Date 2045	6.49%	11.79%	36.12%	13.41%	13.42%	
SERS 2050 Retirement Fund	7.30%	12.71%	39.86%	14.59%	13.97%	
BlackRock 2050 Index	7.27%	12.63%	39.73%	14.44%	13.81%	
Callan Target Date 2050	6.55%	11.97%	37.03%	13.70%	13.62%	
SERS 2055 Retirement Fund	7.34%	12.82%	40.13%	14.67%	14.01%	
BlackRock 2055 Index	7.32%	12.76%	40.09%	14.54%	13.87%	
Callan Target Date 2055	6.65%	12.17%	38.11%	13.87%	13.79%	
-	7.040/	40.000/	40.400/	4.4.000/	44.0007	
SERS 2060 Retirement Fund	7.34%	12.80%	40.10%	14.66%	14.00%	
BlackRock 2060 Index	7.32%	12.76%	40.09%	14.54%	13.87%	
Callan Target Date 2060	6.66%	12.24%	38.24%	14.06%	13.96%	
SERS 2065 Retirement Fund	7.34%	12.77%	40.02%	-	-	
BlackRock 2065 Index	7.32%	12.76%	40.09%	-	-	
Callan Target Date 2065	6.66%	12.08%	39.15%	14.06%	-	

Note: SERS Funds are the top fund in each grouping followed by each fund's respective benchmark and median peer. \*Target Date funds replaced risk-based funds in 1Q20.



As of June 30, 2021

	Last	Last	Last	Last	
	7	10	15	20	
	Years	Years	Years	Years	
Net Performance					
Retirement Date Funds					
SERS Post Retirement Fund	6.09%	6.32%	6.15%	-	
BlackRock Post Retirement Index	6.04%	6.28%	6.12%	6.04%	
Callan Tgt Date Ret Inc	5.14%	5.48%	5.38%	4.45%	
SERS 2025 Retirement Fund	7.08%	7.52%	6.55%	-	
BlackRock 2025 Index	7.00%	7.46%	6.48%	6.16%	
Callan Target Date 2025	7.32%	7.98%	6.70%	-	
SERS 2030 Retirement Fund	7.86%	8.25%	6.91%	-	
BlackRock 2030 Index	7.75%	8.16%	6.85%	6.43%	
Callan Target Date 2030	8.09%	8.73%	7.12%	6.56%	
SERS 2035 Retirement Fund	8.60%	8.94%	7.30%	-	
BlackRock 2035 Index	8.48%	8.82%	7.19%	6.67%	
Callan Target Date 2035	8.69%	9.38%	7.48%	-	
SERS 2040 Retirement Fund	9.25%	9.53%	7.58%	-	
BlackRock 2040 Index	9.10%	9.39%	7.47%	6.84%	
Callan Target Date 2040	9.26%	9.90%	7.84%	6.97%	
SERS 2045 Retirement Fund	9.72%	9.98%	7.79%	-	
BlackRock 2045 Index	9.55%	9.84%	7.69%	7.00%	
Callan Target Date 2045	9.63%	10.13%	7.92%	-	
SERS 2050 Retirement Fund	9.93%	10.24%	-	-	
BlackRock 2050 Index	9.77%	10.10%	7.94%	7.41%	
Callan Target Date 2050	9.78%	10.24%	7.90%	-	
SERS 2055 Retirement Fund	9.93%	10.40%	-	-	
BlackRock 2055 Index	9.78%	10.25%	-	-	
Callan Target Date 2055	9.92%	10.56%	-	-	

Note: SERS Funds are the top fund in each grouping followed by each fund's respective benchmark and median peer. Funds not listed do not have longer term history.

<sup>\*</sup>Target Date funds replaced risk-based funds in 1Q20.



As of June 30, 2021

	Year			Last	Last	
	Last	to	Last	3	5	
	Quarter	Date	Year	Years	Years	
Net Performance						
Domestic Equity						
SERS U.S. Large Company Index	8.55%	15.26%	40.81%	18.69%	17.66%	
S&P 500 Index	8.55%	15.25%	40.79%	18.67%	17.65%	
Callan Lg Cap Broad MF	8.36%	14.79%	41.72%	18.13%	17.33%	
SERS U.S. SMID Company Index	7.08%	15.61%	61.92%	18.68%	18.90%	
Dow Jones US Completion	7.12%	15.41%	61.59%	18.50%	18.70%	
Callan SMID Broad MFs	5.33%	14.55%	49.31%	15.09%	16.64%	
International Equity						
SERS Global Non-US Index	5.54%	9.34%	35.84%	9.74%	11.27%	
MSCI ACWI ex US	5.48%	9.16%	35.72%	9.38%	11.08%	
Callan Non US Equity MFs	5.50%	9.16%	36.25%	8.62%	10.57%	
Domestic Fixed Income						
SERS Short Term Investment Fund	0.02%	0.05%	0.17%	1.39%	1.31%	
3-month Treasury Bill	(0.00%)	0.02%	0.09%	1.34%	1.17%	
Callan Cash Database(1)	0.08%	0.12%	0.38%	1.66%	1.48%	
SERS Stable Value Fund	0.41%	0.87%	1.95%	2.34%	2.19%	
3-month Treasury Bill	(0.00%)	0.02%	0.09%	1.34%	1.17%	
Callan Stable Value	0.43%	0.92%	1.96%	2.38%	2.26%	
SERS U.S. Bond Index Fund	1.81%	(1.64%)	(0.42%)	5.35%	3.01%	
Blmbg Aggregate	1.83%	(1.60%)	(0.33%)	5.34%	3.03%	
Callan Core Bond MFs	1.99%	(1.13%)	1.19%	5.99%	3.61%	
Gallatt Gold Bolla IIII G	1.0070	(111070)	111070	0.0070	0.0170	

<sup>\*</sup>The Global Non-U.S. Stock Index Fund replaced the International Company Stock Index Fund in 1Q20.



<sup>(1)</sup> Callan Cash Database includes STIF, enhanced cash, and money market funds.

As of June 30, 2021

	Last	Last	Last	Last	
	7	10	15	20	
	Years	Years	Years	Years	
Net Performance					
Domestic Equity					
SERS U.S. Large Company Index	14.12%	14.86%	10.77%	8.65%	
S&P 500 Index	14.10%	14.84%	10.73%	8.61%	
Callan Lg Cap Broad MF	13.34%	14.20%	10.55%	8.49%	
SERS U.S. SMID Company Index	13.24%	14.09%	11.35%	10.76%	
Dow Jones US Completion	13.06%	13.87%	11.14%	10.57%	
Callan SMID Broad MFs	12.46%	12.30%	10.47%	9.77%	
International Equity					
SERS Global Non-US Index	5.58%	5.68%	-	-	
MSCI ACWI ex US	5.33%	5.45%	4.85%	6.46%	
Callan Non US Equity MFs	5.46%	6.32%	5.33%	6.46%	
Domestic Fixed Income					
SERS Short Term Investment Fund	1.00%	0.76%	1.27%	-	
3-month Treasury Bill	0.87%	0.63%	1.08%	1.37%	
Callan Cash Database(1)	1.20%	0.98%	1.54%	1.78%	
SERS Stable Value Fund	2.19%	2.37%	3.05%	-	
3-month Treasury Bill	0.87%	0.63%	1.08%	1.37%	
Callan Stable Value	2.12%	2.21%	2.67%	3.41%	
SERS U.S. Bond Index Fund	3.26%	3.35%	4.38%	4.53%	
Blmbg Aggregate	3.28%	3.39%	4.43%	4.56%	
Callan Core Bond MFs	3.57%	3.76%	4.76%	4.77%	

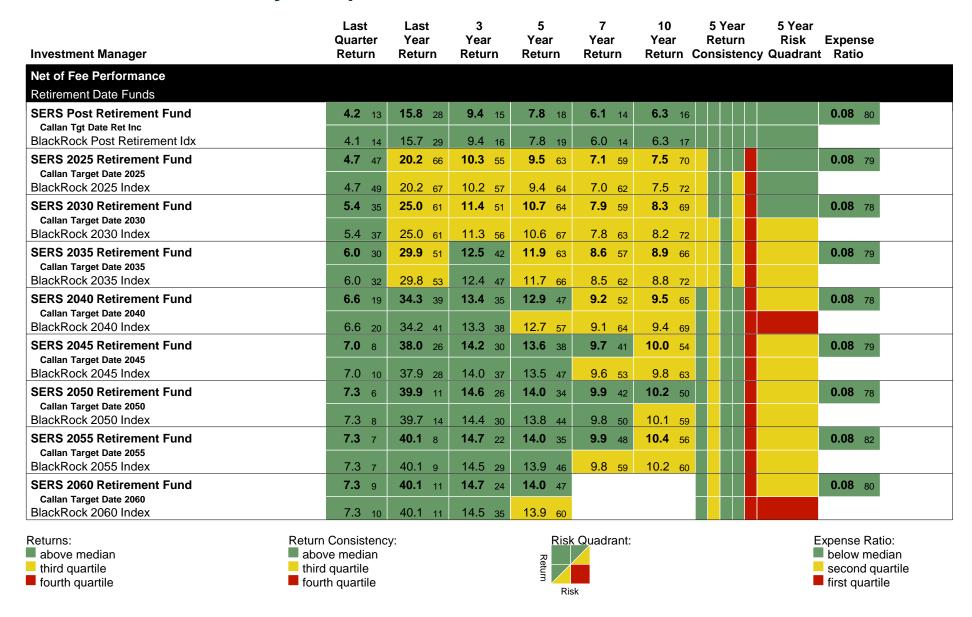
<sup>\*</sup>The Global Non-U.S. Stock Index Fund replaced the International Company Stock Index Fund in 1Q20.



<sup>(1)</sup> Callan Cash Database includes STIF, enhanced cash, and money market funds.

<sup>\*</sup>Funds not listed do not have longer term history.

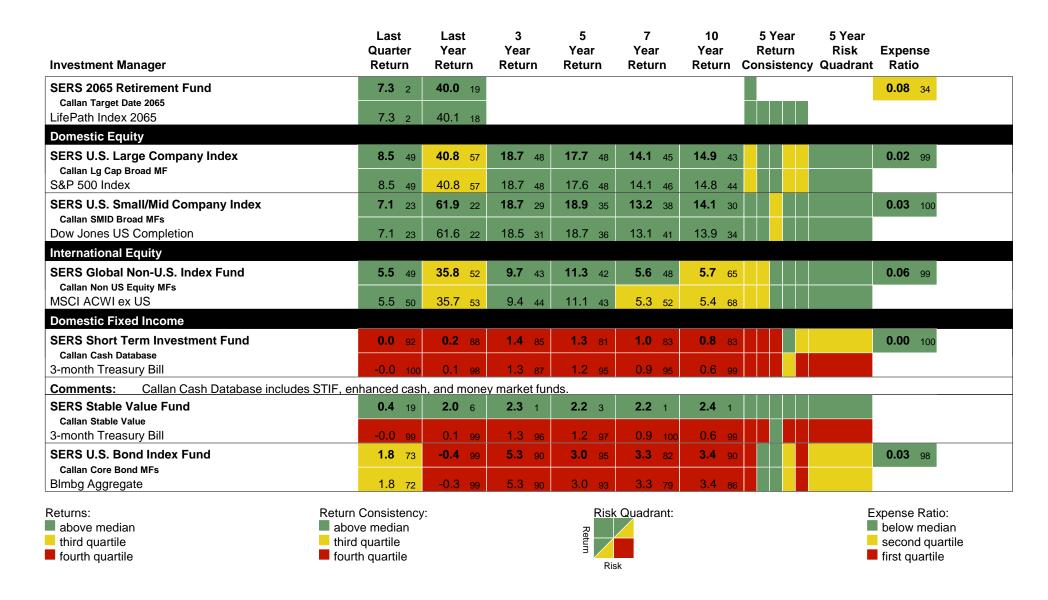
## Performance Summary & Expense Ratios as of June 30, 2021



Note: For returns, each SERS Fund and corresponding benchmark return are shown with their respective peer group rankings. For returns, lower peer group rankings are more desirable (e.g. 25th percentile equates to top quartile performance). Expense Ratio: Higher peer group rankings are more desirable (e.g. 75th percentile equates to bottom quartile/cheapest fees).



## Performance Summary & Expense Ratios as of June 30, 2021

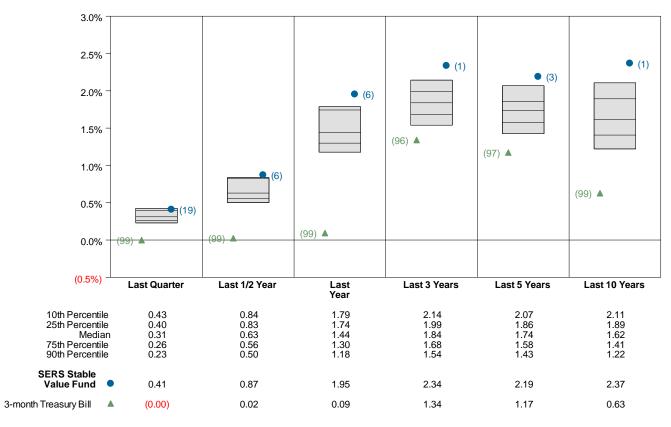


Note: For returns, each SERS Fund and corresponding benchmark return are shown with their respective peer group rankings. For returns, lower peer group rankings are more desirable (e.g. 25th percentile equates to top quartile performance). Expense Ratio: Higher peer group rankings are more desirable (e.g. 75th percentile equates to bottom quartile/cheapest fees).



# Stable Value Fund as of June 30, 2021

#### Performance vs Callan Stable Value CT (Institutional Net)



Wrap Provider Exposure*									
Contract Issuer	Portfolio	Average Fee	Moody's Rating	S&P Rating	Fitch Rating				
Nationwide Life Insurance	20.48%	0.15%	A1	A+	NR				
Transamerica	20.35%	0.15%	A1	A+	WD				
Prudential Insurance Co.	15.37%	0.16%	Aa3	AA-	AA-				
RGA	15.36%	0.15%	A1	AA-	Α				
State Street Bank	12.83%	0.15%	Aa2	AA-	AA+				
Pacific Life Insurance Co.	12.81%	0.16%	A1	AA-	AA-				
	97.21%	0.15%							





# 457(b) Plan Investment Structure

# Lineup Mapped to Callan's Clean Sheet

Conservative **Tier I: Asset Allocation Tier II: Passive Core Options Tier II: Active Core Options Tier III: Specialty Options Target Date Funds Capital Preservation** Short Term Investment Fund Stable Value Fund **Core Fixed Income** U.S. Bond Index Fund **Large-Cap US Equity** U.S. Large Co. Stock Index Fund **Non-US Equity** Global Non-U.S. Stock Index Fund Small/Mid-Cap US Equity U.S. Small/Mid Co. Stock Index Fund Aggressive

# Callan

**Appendix – Callan Update** 

# **Published Research Highlights from 2Q21**

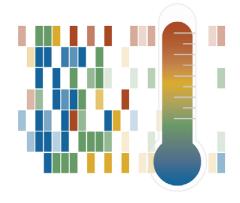
# 'Proptech' and Commercial Real Estate



# A Guide to Implementing a China A-Shares Allocation



# Real Estate Indicators, 1Q21 Update



# Webinar on Inflation and Institutional Investors



#### **Recent Blog Posts**

Capital
Markets
Assumptions
and the Future

Greg Allen

When the Passive Index Is an Active Decision

Weston Lewis

Putting Values into Action: A Practical Guide for Institutional Investors

Brad Penter and Lauren Mathias

#### **Additional Reading**

Private Equity Trends quarterly newsletter
Active vs. Passive quarterly charts
Capital Markets Review quarterly newsletter
Monthly Updates to the Periodic Table
Market Pulse Flipbook quarterly markets update



### **Callan Institute Events**

Upcoming conferences, workshops, and webinars

#### Callan College

#### Intro to Investments - Learn the Fundamentals

This course is for institutional investors, including trustees and staff members of nonprofits, and public and corporate funds. This session familiarizes trustees and staff with basic investment theory, terminology, and practices.

Join our next virtual sessions (2-3 hour sessions over 3 days):

Aug. 17, 2021 – Aug. 19, 2021 Oct. 26, 2021 – Oct. 28, 2021

Join our next LIVE session in Chicago (1.5-day session):

Oct. 6, 2021 - Oct. 7, 2021

#### **Alternative Investments**

Alternative investments like private equity, hedge funds, and real estate can play a key role in any portfolio. You will learn about the importance of allocations to alternatives, and how to consider integrating, evaluating, and monitoring them.

Join our next virtual session (2-3 hour sessions over 2 days): Oct. 19, 2021 – Oct. 20, 2021

#### **Fall Regional Workshops**

#### Join us in person!

Our regional workshops will be covering ESG topics this Fall. Watch your email for further details and an invitation.

#### November 2, 2021, in Atlanta

St. Regis Hotel
Eighty-Eight West Paces Ferry Road, Atlanta, GA 30305

#### November 5, 2021, in San Francisco

Palace Hotel 2 New Montgomery St, San Francisco, CA 94105

#### Agenda

8:30am - Breakfast 9:30am - Workshop

#### **Webinars**

Research Café: Property Technology

Aug. 30, 2021 - 9:30am (PT)

**Market Intelligence** 

Oct. 15, 2021 – 9:30am (PT)

## **Callan Updates**

Firm updates by the numbers, as of June 30, 2021

Total Associates: ~200

Ownership

- 100% employees

- Broadly distributed across 99 shareholders

Leadership Changes

- No changes to leadership this quarter

Total General and Fund Sponsor Consultants: more than 55

Total Specialty and Research Consultants: more than 60

Total CFA/CAIA/FRMs: more than 55

Total Fund Sponsor Clients: more than 400

AUA: more than \$3 trillion

"With Callan at the forefront of ESG research and education, we are thrilled to be part of this working group of our peers to bring further transparency and insights to the rapidly changing ESG landscape. There is growing interest from institutional investors to incorporate financially material ESG factors into their investment processes, and we believe the move toward more ESG incorporation is consistent with a long-term investment approach."

— Tom Shingler, leader of Callan's ESG team, on the formation of the Investment Consultants Sustainability Working Group – US.



### **Disclaimers**

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Reference to or inclusion in this report of any product, service or entity should not be construed as a recommendation, approval, affiliation or endorsement of such product, service or entity by Callan.

Past performance is no guarantee of future results.

The statements made herein may include forward-looking statements regarding future results. The forward-looking statements herein: (i) are best estimations consistent with the information available as of the date hereof and (ii) involve known and unknown risks and uncertainties such that actual results may differ materially from these statements. There is no obligation to update or alter any forward-looking statement, whether as a result of new information, future events or otherwise. Undue reliance should not be placed on forward-looking statements.