

### Presentation to the State Retiree Benefits Trust Fund Board

### PRIM Board Organizational Update PRIT Fund and SRBT Fund Performance Review Municipal Outreach Update

Thursday, August 1, 2019

By

Paul W. Todisco, Senior Client Services Officer, PRIM Board Francesco Daniele, Senior Client Services Officer, PRIM Board



Deborah B. Goldberg, Treasurer and Receiver General, Chair Michael G. Trotsky, CFA, Executive Director and Chief Investment Officer

# Mission

- PRIM is a \$74.8 billion investment fund that invests public employee pension benefits.
  - PRIM does not administer benefits.
  - PRIM has a highly talented, experienced and focused investment staff.
- **PRIM's Mission is to relieve the pension funding burden on the taxpayer.** 
  - PRIM is a self-funded agency which generates asset returns for Massachusetts.
  - In the past five years, PRIM's returns have contributed over \$19.9 billion to pension funding (\$3.6 billion over benchmark).
  - The Project SAVE initiative realized over \$150 million in value for the fund annually.

### **PRIM** is independent and governed by a nine-member Board of Trustees.

- The Massachusetts State Treasurer is the Chair of the PRIM Board.
- A robust committee structure lends advice regarding investments operations.



## **PRIT Fund Overview**

### Oversight and staffing:

- 9 appointed and elected trustees
- 4 advisory committees, consisting of 37 industry professionals and Board members
- Staff of 45 professionals
  - o 2 Ph.D's
  - o 9 CFA's
  - o 6 CPA's
  - o 2 CAIA's
  - o 20 CFA Investment Foundations Program Certificate Holders

### Core Fund Facts

- \$74.8 billion AUM as of 06/30/2019
- 46 public markets portfolios
- 14 real estate, timber and REIT managers
- 100+ private equity managers; 200+ partnerships
- 39 portfolio completion strategies managers



### **Top 10 Accomplishments**

- 1. Stable organization: Exceptional staff with low turnover supported by a strong, stable Board and Committee structure.
- 2. National recognition for PRIM and its staff
- 3. Strong relative and absolute investment performance
- 4. Sophisticated risk management platform and framework
- 5. Timely asset allocation decisions
- 6. Project SAVE
- 7. Re-engineered Hedge Fund program Portfolio Completion Strategies
  - a. Direct hedge funds
  - b. Hedge fund replication
  - c. Alternative risk premia harvesting strategies
  - d. Equity risk mitigation
- 8. Enhanced manager search and selection process
- 9. Private Equity co-investment
- 10. Direct Real Estate

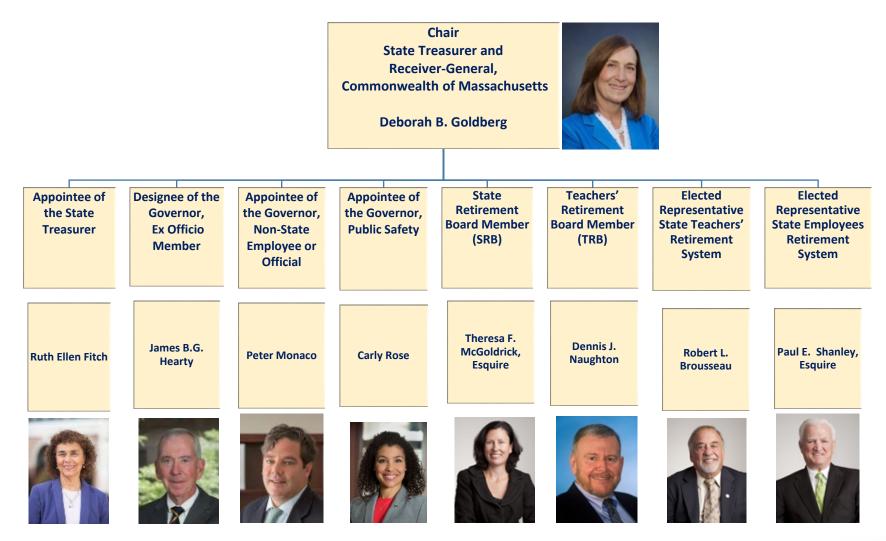




## **PRIM Board Organizational Update**



## **PRIM Board Membership**





## **External Advisors**

### Fund Advisors:

- NEPC Asset Allocation
- Callan Associates Public Markets
- Aberdeen/Arden Hedge Fund Investments
- Hamilton Lane Private Equity
- The Townsend Group- Real Estate & Timber
- The International Woodland Company Timber

### Independent Auditors:

- **KPMG, LLP** PRIM Board and PRIT Fund, Real Estate, Timber, and SASE 16 Reviews
- Deloitte & Touche, LLP PRIM Board tax Consultant

### **Custodian:**

• BNY Mellon Corporation



# **PRIM Advisory Committees Membership**

#### **Investment Committee**

#### (12 Members)

The Committee advises the Board with respect to the asset allocation policy of PRIM and related investment policies, and assist the Board in overseeing the investment program. The mandate of the Investment Committee does not include real estate and timber.

- 1. Deborah B. Goldberg, Chair, Ex Officio Board Member
- 2. Paul E. Shanley, Board Member
- 3. Ruth Ellen Fitch, Board Member
- 4. Joseph C. Bonfiglio, Massachusetts & Northern New England Laborers' District Council
- 5. C. LaRoy Brantley, Investment Consultant
- 6. Michael Even, CFA, Retired President and CEO, Numeric Investors
- 7. Constance M. Everson, CFA, Managing Director, Capital Markets Outlook Group
- 8. James B. G. Hearty, Partner, Clough Capital
- 9. Peter Monaco, Managing Director, Raptor Group
- 10. Philip Rotner, Chief Investment Officer, Boston Children's Hospital
- 11. Glenn P. Strehle, CFA, Treasurer Emeritus, MIT
- 12. Timothy L. Vaill, Special Advisor

#### **Real Estate Committee**

#### (10 Members)

The Committee advises the Board in setting investment policy within the real estate and timber portfolios and assist the Board in overseeing these portfolios.

- 1. Deborah B. Goldberg, Ex Officio Board Member
- 2. Lydia Chesnick, Esq., Partner, Bernkopf Goodman LLP
- 3. Robert Gifford, Robert Gifford Advisory
- 4. Jill S. Hatton, Chair, CRE, Real Estate Investment Professional
- 5. Anthony E. Hubbard, Esq., CVS Corporation
- 6. Jack Lutz, PhD., Forest Research Group
- 7. William F. (Bill) McCall, Jr., CRE, McCall & Almy, Inc.
- 8. Garlan Morse, Jr., CRE, Morris and Morse Company, Inc.
- 9. Peter F. O'Connell, Marina Bay Company
- 10. Carly Rose, Public Safety Union Member



# **PRIM Advisory Committees Membership**

**Administration and Audit Committee** 

(10 Members)

The Committee assists the Board in overseeing all issues related to the governance, administration, and audit functions of PRIM, and to provide recommendations for the Board's consideration.

- 1. Deborah B. Goldberg, Ex Officio Board Member
- 2. Robert L. Brousseau, Chair, Board Member
- 3. Theresa T. McGoldrick, Esq., Board Member
- 4. Patrick E. Brock, Chairman of the Hampshire County Retirement Board
- 5. Joseph A. Connolly, Senior Managing Director Strategic Development, TerraCap
- 6. Karen E. Gershman, CPA, Retired Chief Operating Officer, Health Advances
- 7. Eileen Glovsky, Treasurer Appointee
- 8. James B. G. Hearty, Retired Investment Professional
- 9. Dennis J. Naughton, Board Member
- 10. Michele A. Whitham, Esq., Founder & Principal, Whitham Law LLC

#### **Compensation Committee**

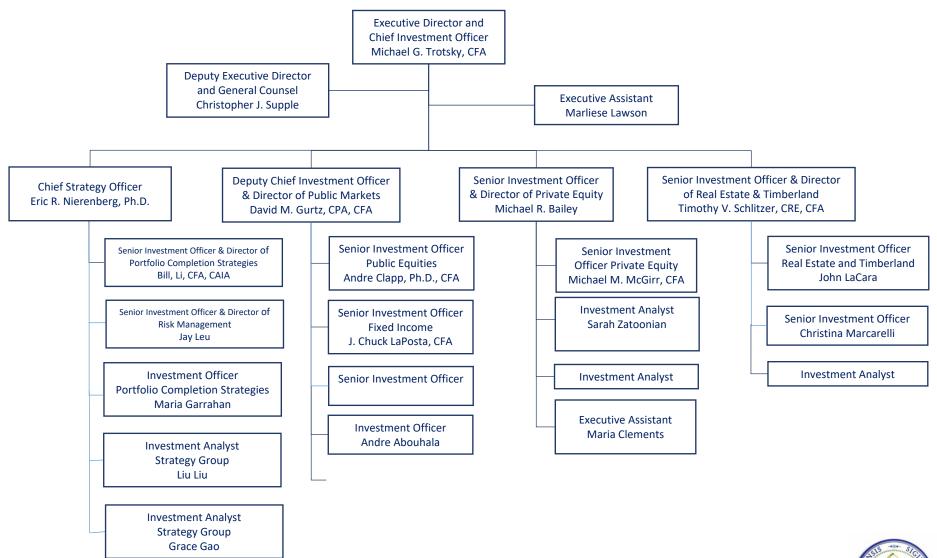
(5 Members)

The Committee assists the Board in overseeing staff compensation and benefit policies. The Administration and Audit Committee is responsible for assisting the Board on other human resource matters.

- 1. Deborah B. Goldberg, Ex Officio Board Member
- 2. Robert L. Brousseau, Board Member
- 3. Patrick E. Brock, Chairman, Hampshire County Retirement Board
- 4. Joseph A. Connolly, Senior Managing Director Strategic Development, TerraCap
- 5. Michele A. Whitham, Esq., Founder & Principal, Whitham Law LLC

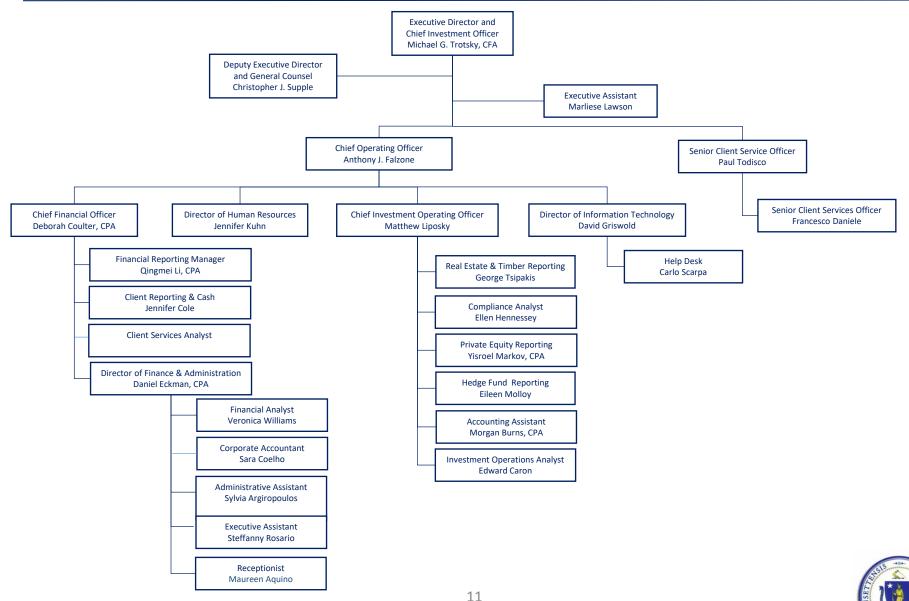


### **PRIM Investment Organizational Chart**





### **PRIM Finance and Operations Organizational Chart**



### Summary of Recent National Recognition

- For the second consecutive year, PRIM's Private Equity Portfolio has been ranked #1 among 163 U.S. public pension funds based on 10 year performance by the American Investment Council's Public Pension Study. PRIM is the only fund that has been in the Top 5 of all private equity portfolios in every year the study has been conducted. (July 2019)
- PRIM was awarded the **Government Finance Officer Association's Certificate of Achievement for Excellence in Financial Reporting** for the 14<sup>th</sup> consecutive year. (May 2019)
- For an unprecedented fourth year in a row, PRIM has been nominated for "Public Plan of the Year" at the Institutional Investor Hedge Fund Industry Awards, to be held in New York on June 27, 2019. PRIM won this award in 2016. The other nominees this year are Ontario Municipal, New Mexico, Wisconsin, Texas Teachers and Illinois Teachers. (May 2019)
- PRIM's Portfolio Completion Strategies (PCS) Director Bill Li, CFA, CAIA was inducted into the EQDerivatives Investing Hall of Fame's 2019 Class, which "recognizes those individuals that have led the line in volatility and alternative risk premia thought leadership. (May 2019)
- PRIM has adopted the CFA Institute's Global Investment Performance Standards of integrity and transparency, effective January 1<sup>st</sup> 2019. The **GIPS** standards are an important part of our commitment to maintain the highest level of integrity and transparency possible.
- □ CFA Society Boston has elected Michael Trotsky, CFA, Executive Director and Chief Investment Officer to serve as Chair of the Board of Directors. The CFA Society Boston serves 6,000 professionals representing 650 companies and is part of the CFA Institute with nearly 200,000 members. (June 2019)
- For the second year in a row, Eric Nierenberg has been listed on Institutional Investor's "Most Wanted Allocators" list. For the past two years, Institutional Investor has published a global "Top 50" list of allocators they deem as most coveted for potential future chief investment officer roles.
- Chris Supple, Deputy Executive Director and General Counsel, was reappointed to a 2<sup>nd</sup> term as Chair of the Securities Litigation Committee at the National Association of Public Pension Attorneys (NAPPA)

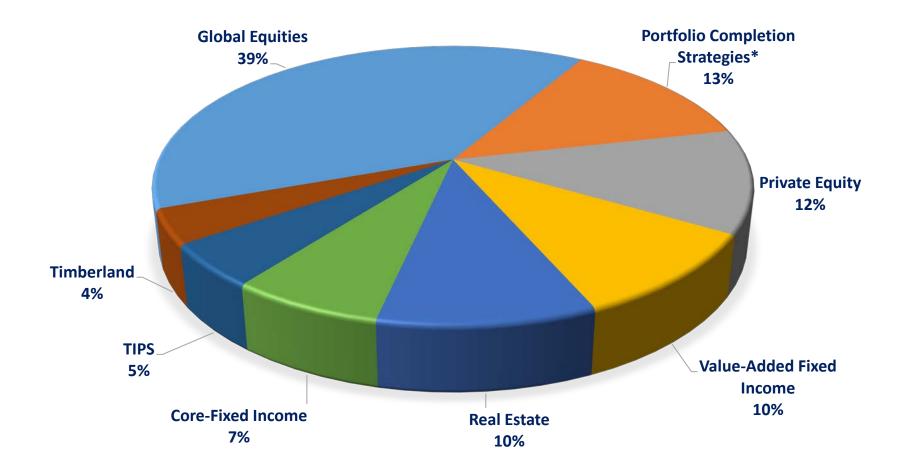




## **Asset Allocation Review**



### **PRIT Fund Overview – Current Asset Allocation Targets**



\*PCS Includes 9% allocation to Hedge Funds.



## **Detailed Summary: Target Range Proposal**

### Increase in Allocation Range

#### Core Fixed Income: Target Band moves up 3%

□ The net increase will be funded across the US Treasury curve.

NEW US Short Term Fixed Income

Within Core Fixed Income, there will be an increase across the US Treasury curve which will be funded through a reduction in Global Inflation-Linked Bonds.

Portfolio Completion Strategies: Target Band moves up 1%

Private Equity: Target Band moves up by 1%

### **Decrease in Allocation Range**

#### Global Equity: Target Band moves down 3%

- □ The decrease will be sourced from Developed International and Emerging Markets Equities.
- □ Within Global Equities, the increase in the Hedged Equity program will be funded by US and International Equities.

Value Fixed Income: Target Band moves down by 2%

### **Same Allocation Range**

Real Estate: Target Band remains the same

□ As Private Real Estate deals are sourced, the team may fund from REITS.

Timber: Target Band remains the same



### **PRIM Asset Allocation Mid-Point Target**

Asset Class Allocations	Current AA Target Range	2019 AA Target Range	2019 AA Target Mid- Point	Mid-Point AA Change From 2018
Global Equity	37% - 47%	34% - 44%	39%	<u>-3.0%</u>
US Equity			13%	-4.5%
Int'l Developed Equities			13%	-2.5%
Emerging Int'l Equities			5%	-1.0%
Hedged Equity			8%	5.0%
Core Fixed Income	9% - 15%	12% - 18%	15%	<u>3.0%</u>
Core Bonds			6%	1.0%
Short-Term Fixed Income			2%	2.0%
Long Duration Treasury			3%	1.0%
Inflation-Linked Bonds			4%	-1.0%
Value-Add Fixed Income	7% – 13%	5% - 11%	8%	<u>-2.0%</u>
Private Equity	9% - 15%	10% - 16%	13%	<u>1.0%</u>
Real Estate	7% - 13%	7% - 13%	10%	-
Private Real Estate			9%	1.0%
Public REITs			1%	-1.0%
Timberland	1% - 7%	1% - 7%	4%	-
PCS	7% - 13%	8% - 14%	11%	<u>1.0%</u>



### **PRIM Asset Allocation**

Asset Class Allocations	Current AA Target Range	2019 AA Target Range	2019 AA Target Mid- Point	Mid-Point AA Change From 2018
Global Equity	37% - 47%	34% - 44%	39%	<u>-3.0%</u>
Core Fixed Income	9% - 15%	12% - 18%	15%	<u>3.0%</u>
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Private Equity	9% - 15%	10% - 16%	13%	<u>1.0%</u>
Real Estate	7% - 13%	7% - 13%	10%	-
Timberland	1% - 7%	1% - 7%	4%	-
PCS	7% - 13%	8% - 14%	11%	<u>1.0%</u>

Capital Market Assumptions <sup>1</sup>	2018 Assumptions Current Target Range	2019 Assumptions 2019 Target Range
5-7 Yr. Returns	6.6%	6.8%
30 Yr. Returns	7.7%	7.9%
Volatility	12.6%	12.1%
Sharpe Ratio 30 Yr.	0.39	0.41

1. Asset classes modeled at the midpoint of the target range

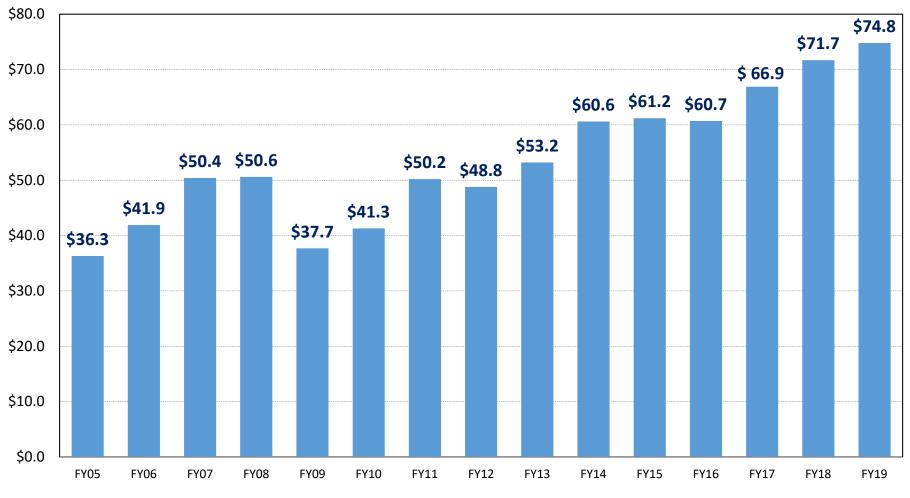




# PRIT Fund Performance As of June 30, 2019



### Total PRIT Fund Fiscal Year Market Value (\$Billions)

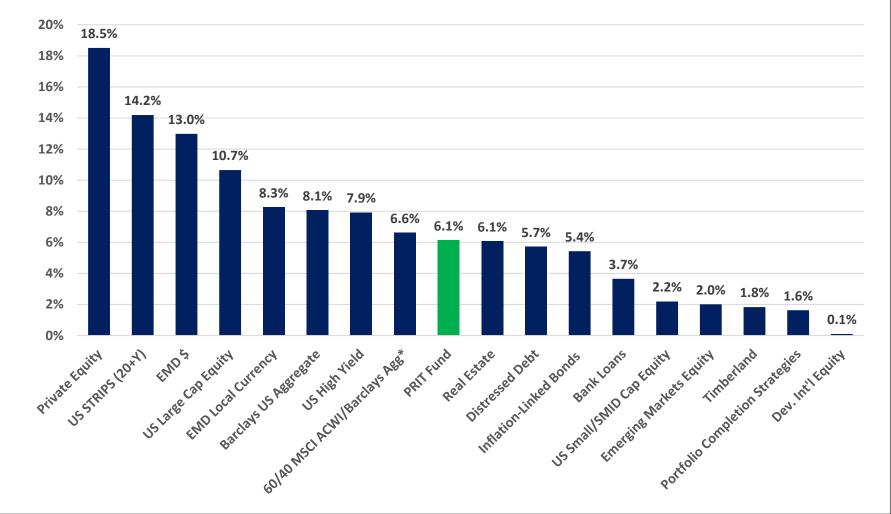


AUM (bil)



## **Asset Class Performance Summary**

#### One Year Ended June 30, 2019 (Gross of Fees)



Source: BNY Mellon, FactSet.

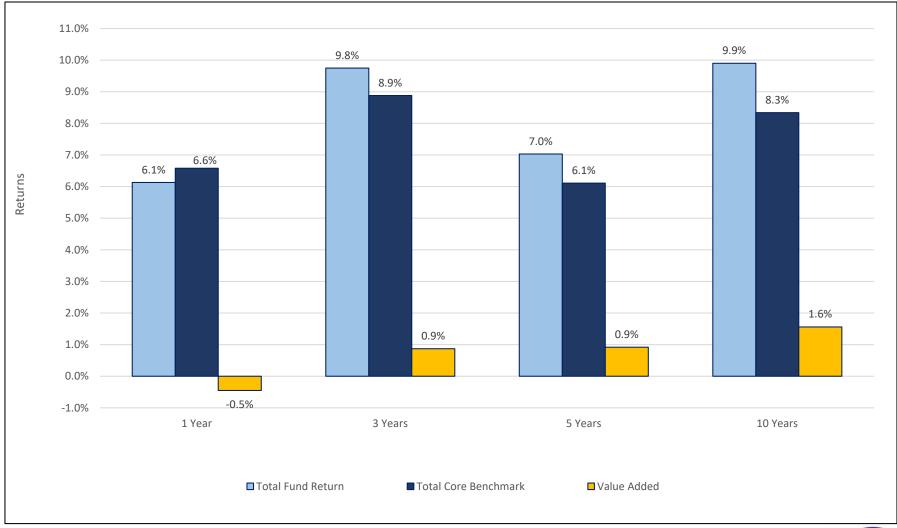
All performance figures reflected are PRIT Fund Asset Class returns.

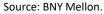
\*MSCI ACWI/Barclays Aggregate is derived from a 60/40 combination of index returns.



## **Total PRIT Fund Returns**

#### Annualized Returns as of June 30, 2019 (Gross of Fees)

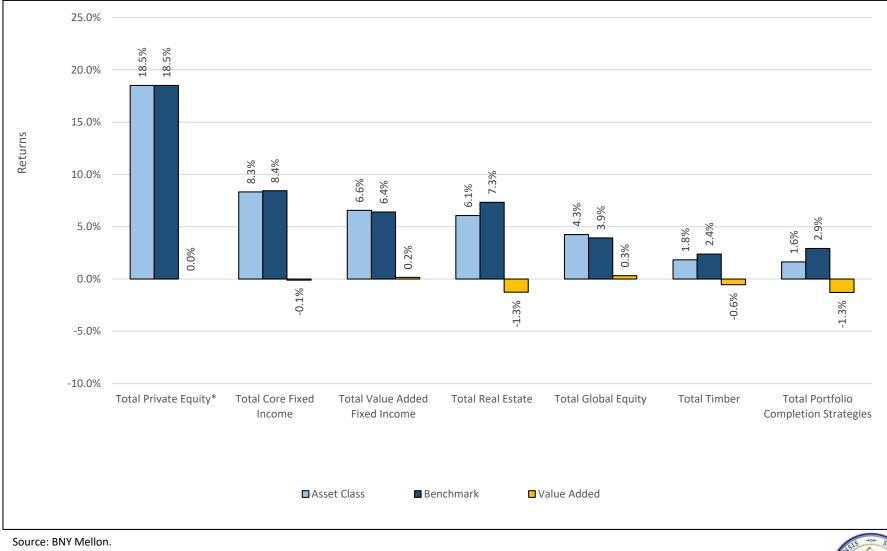




Total Core Benchmark includes private equity benchmark.

### **PRIT Asset Class Performance**

#### One Year Ended June 30, 2019 (Gross of Fees)

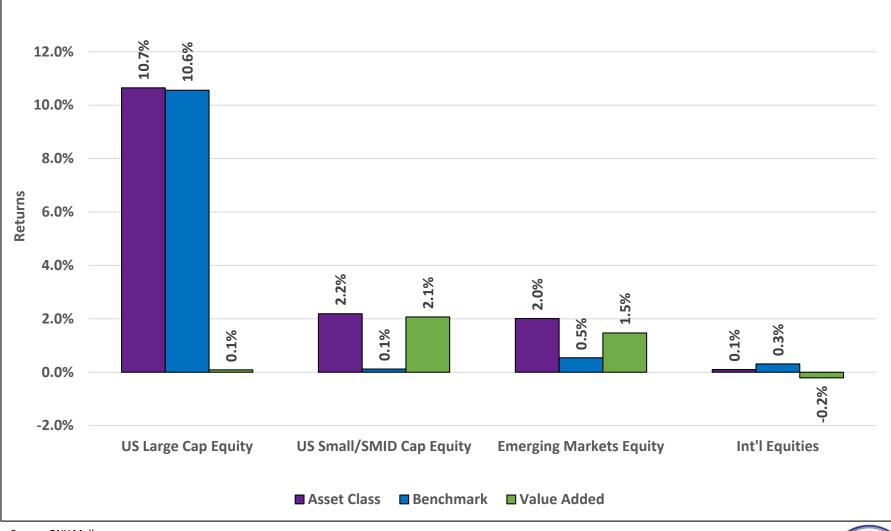


Totals may not add due to rounding.

\*Benchmark is actual performance.

## **Public Markets Performance – Equities**

One Year Ended June 30, 2019 (Gross of Fees)

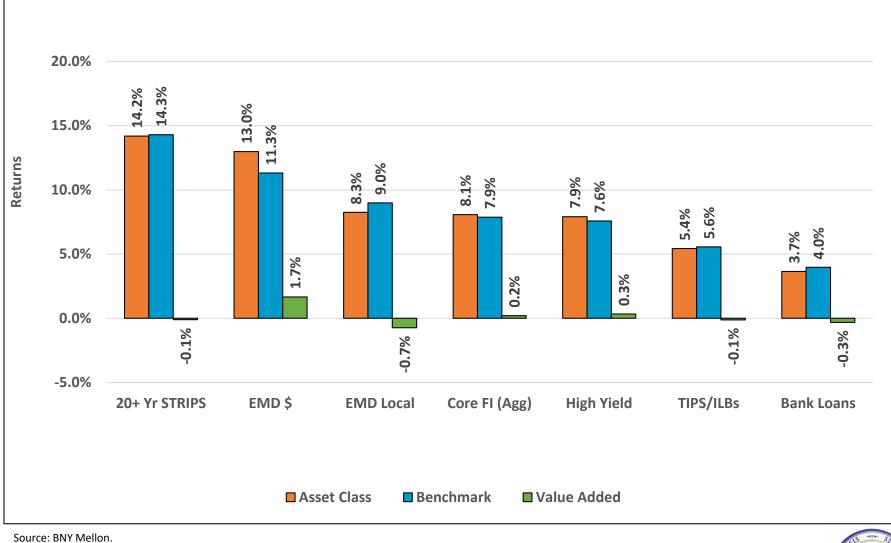


Source: BNY Mellon.

Totals may not add due to rounding.

### **Public Markets Performance – Fixed Income**

One Year Ended June 30, 2019 (Gross of Fees)





Totals may not add due to rounding.

## **PRIT Asset Class Performance**

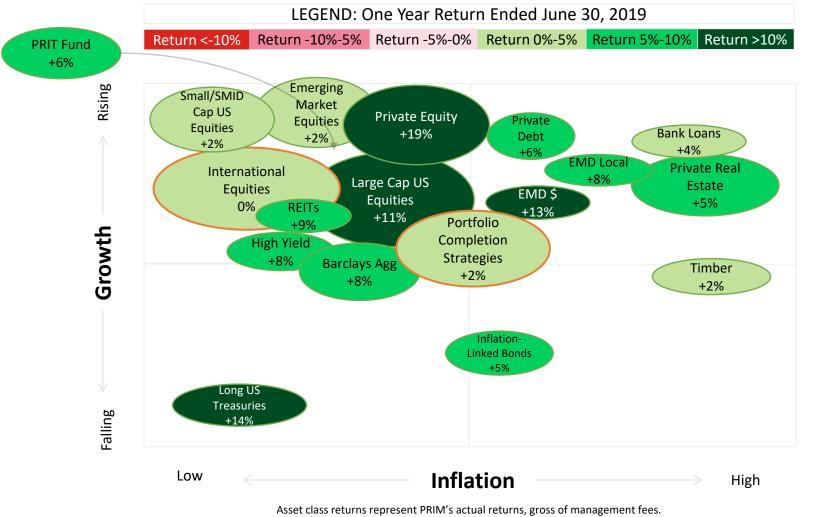
### Annualized Returns as of June 30, 2019 (Gross of Fees)

1 Year	3 Year	5 Year	10 Year
PRIVATE EQUITY 18.5%	PRIVATE EQUITY 20.5%	PRIVATE EQUITY 17.8%	PRIVATE EQUITY 18.3%
CORE FIXED INCOME 8.3%	GLOBAL EQUITY 12.1%	REAL ESTATE 9.3%	GLOBAL EQUITY 10.9%
VALUE-ADDED FIXED INCOME 6.6%	REAL ESTATE 7.4%	GLOBAL EQUITY 6.5%	REAL ESTATE 10.5%
REAL ESTATE 6.1%	VALUE-ADDED FIXED INCOME 6.9%	TIMBER 5.6%	VALUE-ADDED FIXED INCOME 8.7%
GLOBAL EQUITY 4.3%	TIMBER 6.0%	CORE FIXED INCOME 4.8%	CORE FIXED INCOME 5.4%
TIMBER 1.8%	PORTFOLIO COMPLETION STRATEGIES 5.4%	VALUE-ADDED FIXED INCOME 3.7%	PORTFOLIO COMPLETION STRATEGIES 5.0%
PORTFOLIO COMPLETION STRATEGIES 1.6%	CORE FIXED INCOME 1.7%	PORTFOLIO COMPLETION STRATEGIES 3.0%	TIMBER 3.3%



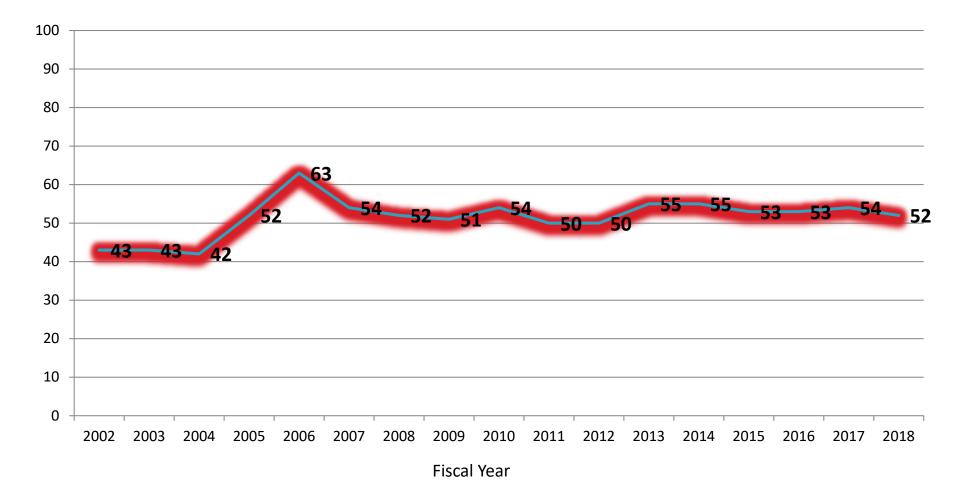
### Asset Classes & Regimes – One Year Ended June 30, 2019

- GDP Growth: +3.2%.
- Core CPI: +2.1%.
- 30yr yields: -47bps.





### **PRIT Fund Ratio of Expenses in Basis Points**





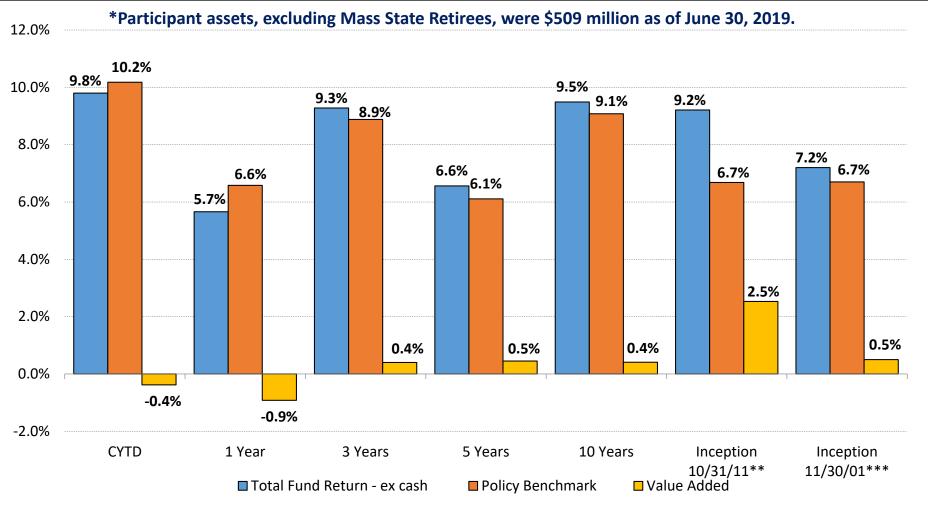


# SRBT Fund Performance As of June 30, 2019



# Total SRBT Fund Returns (Net of Fees) - \$1.795 Billion\*

#### Annualized Returns as of June 30, 2019



\*\*The inception date for the SRBTF's investment in the PRIT Fund General Allocation Account (PRIT GA) was 10/31/2011, when 82% of the fund was transitioned from separate accounts to PRIT GA. The remaining 18% of separate account assets were transitioned over the following 14 months with 100% of assets invested in PRIT GA by 12/31/2012. The ITD return of 10.1% reflects the inception-to-date return for PRIT GA assets only.

\*\*\* The inception date for the TOTAL FUND was 11/30/2001. This ITD value reflects the true inception-to-date return for all SRBTF assets including legacy separate account investments as well as the PRIT GA investments.





# **Municipal Outreach**



### **Municipal Outreach**

- 1. Acton-Boxborough Regional School District
- 2. Amherst-Pelham Regional School District (OPEB committee considering investment options)
- 3. Andover
- 4. Ayer Shirley Regional School District
- 5. Belmont
- 6. Bernardston
- 7. Bridgewater
- 8. Byfield Water District
- 9. Cape Cod Regional Transit Authority
- 10. Chelmsford Water District
- 11. Dartmouth
- 12. Dracut
- 13. Freetown
- 14. Foxboro
- 15. Greater Lawrence Sanitary District
- 16. Greater Lowell Technical Regional High School (Renewed interest in October)
- 17. Greenfield
- 18. Groton
- 19. Halifax
- 20. Haverhill
- 21. Hull
- 22. Longmeadow
- 23. Lynn
- 24. Massachusetts Association of Regional Planning Agencies (MARPA)
- 25. Massachusetts Housing Finance Authority
- 26. Medway
- 27. Melrose
- 28. Mohawk/Hawlemont Regional School District (Buckland)
- 29. Nauset Regional High School
- 30. Newbury
- 31. Northfield\*
- 32. Pepperell
- 33. Somerset
- 34. South Hadley Fire District (Scheduling a meeting date)
- 35. Springfield
- 36. Sudbury
- 37. Tri-County Educational Collaborative (Franklin, MA)
- 38. Truro
- 39. Waltham
- 40. West Boylston Municipal Light Department
- 41. Westford
- 42. West Newbury
- 43. Weston\*
- 44. Woburn



### Governmental Entities Participating in the SRBTF (69 Entities)

l	Town of Acton	Manchester Essex Regional School District	
l	Town of Amherst	Town of Marblehead	
l	Town of Ayer	Marblehead Municipal Light Department	
l	Town of Bedford	Massachusetts School Building Authority	
l	City of Beverly	Mass State Retirees (SRBTF)	
l	BiCounty Educational Collaborative, Franklin, MA	Mass Water Resources Authority	
l	Town of Blackstone	Town of Medfield	
l	Boston Redevelopment Authority	Town of Middleton	
l	Town of Boxford	Town of Milton	
l	Town of Braintree	Town of Montague	
l	Town of Brewster	Nashoba Regional School District	
l	Town of Brookline	Town of Needham	
l	Town of Burlington	City of New Bedford	
l	Byfield Water District	City of Newburyport	
l	Town of Chelmsford	City of Newton	
l	Concord Area Special Education (CASE) Collaborative	Town of North Andover	
l	Town of Cohasset	Town of Northborough	
l	Town of Dalton	Old Rochester Regional School District	
l	Town of Dracut	Town of Orleans	
l	Town of Dedham	Pilgrim Area Collaborative (PAC), Pembroke, MA	
l	Fall River Housing Authority	Town of Provincetown	
l	City of Fitchburg	Shawsheen Valley Technical High School, Billerica, MA	
l	Town of Franklin	Town of Sherborn	
l	Franklin Regional Council of Governments	Town of Stockbridge	
l	Town of Harvard	Town of Tewksbury	
l	Town of Hingham	Town of Wakefield	
l	Town of Holliston	Wakefield Municipal Gas & Light Department	
l	Town of Ipswich	Town of Wayland	
l	Town of Lancaster	Town of Wellesley	
l	Lawrence Housing Authority	Town of Westwood	
l	Town of Lenox	Town of Wilmington	
l	City of Leominster		
l	Town of Lincoln		
	Lincoln-Sudbury Regional School District		
	Town of Longmeadow		-10
	Lowell Regional Transit Authority (LRTA)	355	Ś
	Lower Pioneer Valley Educational Collaborative		*
	Town of Manchester-By-The-Sea		