

#### Presentation to the

### City of Newton OPEB Trust Board

Tuesday, September 13, 2016

Paul W. Todisco, Senior Client Services Officer, PRIM Presented by





# Composition of the State Retiree Benefits Trust Fund Board

□ Secretary of Administration & Finance, or designee	Kristen Lepore, Secretary of Administration & Finance -Lauren Peters serves as Secretary Lepore's Designee
□ State Treasurer, or designee	Deborah B. Goldberg, State Treasurer & Receiver-General
	-Nicola Favorito serves as Treasurer Goldberg's Designee and
<b>b</b>	is SRBTF Board Chair
□ State Comptroller, or designee	Thomas G. Shack III, Esq., State Comptroller
Executive Director, Group Insurance Commission,	Dolores L. Mitchell, Executive Director, GIC
or designee	
Executive Director, Public Employee Retirement	
Administration Commission, or designee	Joseph E. Connarton, Executive Director, PERAC
Treasurer's appointee	Michael Tow, President & Founder, New Boston Financial
□ Governor's appointee	Terrence Finn, Edwards Angell Palmer & Dodge LLP

Five of the seven Trustees are Ex Officio Members. The two appointed Trustees serve five-year terms.



# Governmental Entities Participating in the SRBTF

- Town of Acton
- Town of Amherst
- Town of Ayer
- Town of Bedford
- BiCounty Educational Collaborative, Franklin, MA
- 9 Town of Blackstone
- **Boston Redevelopment Authority**
- Town of Boxford
- 9. Town of Braintree
- 10. Town of Brewster
- 11. Town of Brookline
- 12. Town of Burlington
- 13. Town of Chelmsford
- 14. Concord Area Special Education (CASE) Collaborative
- 15. Town of Cohasset
- 16. Town of Dedham
- 17. City of Fitchburg
- 18. Town of Franklin
- 19. Town of Harvard
- 20. Town of Hingham

21. Town of Holliston

- Town of Ipswich
- 23. Town of Lancaster
- 24. Lawrence Housing Authority
- Town of Lenox
- City of Leominster
- 27. Town of Lincoln
- Lowell Regional Transit Authority (LRTA)
- 29. Lower Pioneer Valley Educational Collaborative
- Town of Manchester-By-The-Sea

- 31. Town of Marblehead
- 32. Marblehead Municipal Light Department
- 33. Massachusetts School Building Authority
- 34. Mass State Retirees
- 35. Mass Water Resources Authority
- 36. Town of Medfield
- 37. Town of Middleton
- 38. Town of Milton
- 39. Town of Montague
- 40. Town of Needham
- 41. City of New Bedford
- 42. City of Newburyport
- 43. City of Newton
- 44. Town of North Andover
- 45. Town of Northborough
- 46. Town of Orleans
- 47. Pilgrim Area Collaborative (PAC), Pembroke, MA
- 48. Town of Provincetown
- 49. Shawsheen Valley Technical High School, Billerica, MA
- 50. Town of Sherborn
- 51. Town of Stockbridge
- 52. Town of Tewksbury
- 53. Town of Wakefield
- 54. Wakefield Municipal Gas & Light Department
- 55. Town of Wayland
- 56. Town of Wellesley
- 57. Town of Westwood
- 58. Town of Wilmington



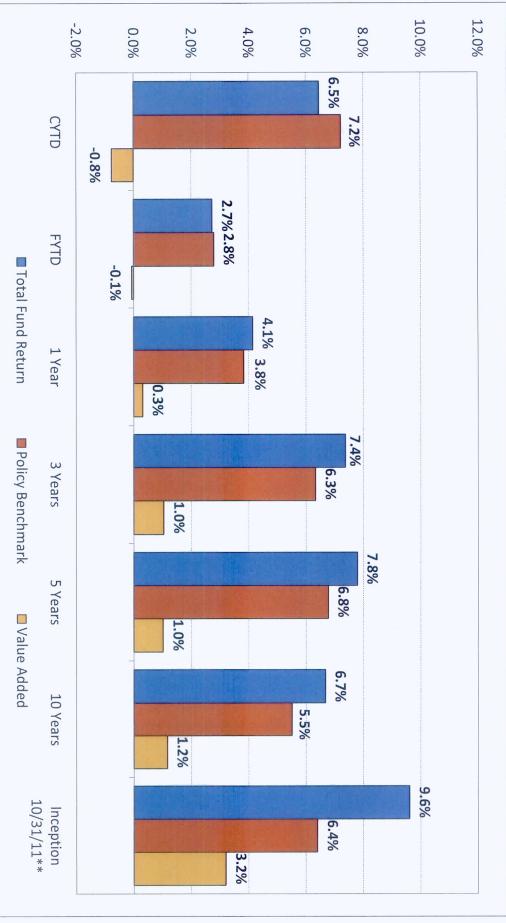


## SRBT Fund Performance As of July 31, 2016



# Total SRBT Fund Returns (Net of Fees) - \$1.082 Billion\*

Annualized Returns as of July 31, 2016



<sup>\*</sup>Participant assets, excluding Mass State Retirees, were \$273 million as of July 31, 2016

<sup>100%</sup> of assets invested in PRIT GA by 12/31/2012. This ITD value reflects the inception-to-date return for PRIT GA assets only. transitioned from separate accounts to PRIT GA. The remaining 18% of separate account assets were transitioned over the following 14 months with \* \*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



## City of Newton OPEB NET of Fees Rates of Return July 31, 2016

	MKT \$ (000)	%	% Month QTD FY'1	QTD	FY '17	Calendar YTD	Calendar 1 Year 3 Year 5 Year 10 Year Inception	nception
NEWTON	3,759	100%	3,759 100% 2.73 2.73 2.73	2.73	2.73	6.45	4.12	4.21
SRBTF CASH	91	2%	91 2% 0.00 0.00 0.00	0.00	0.00	0.20	0.30	
SRBTF OPEB MASTER TRUST	3,668	98%	3,668 98% 2.74 2.74 2.74	2.74	2.74	6.45	4.12	
POLICY BENCHMARK			2.79	2.79 2.79 2.79	2.79	7.22 3.83	3.83	

Inception date is July 1, 2014, when the City of Newton made an initial contribution of \$1.1 million to the SRBTF. From August 29, 2014 through August 1, 2016, the City made 24 subsequent contributions totaling \$2.4 million.





## The PRIM Board and PRIT Fund



## PRIT Fund Overview (July 31, 2016)

#### Oversight and staffing:

- 9 appointed and elected trustees
- 4 advisory committees consisting of 36 industry professionals and board members
- Staff of 40 professionals

#### □ Core Fund Facts

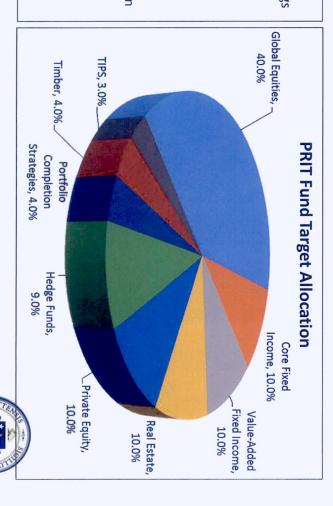
- \$62.3 billion AUM as of 7/31/2016
- 40 public markets portfolios
- 14 real estate, timber and REIT managers
- 100+ private equity managers; 200+ partnerships
- 25 direct hedge fund managers

#### 11 asset classes:

- U.S. Large Cap Equity
- U.S. SMID Cap Equity
- Developed International Equity
- Emerging Markets Equity
- Core Bonds
- 20+ Year STRIPS
- U.S. TIPS
- Global Inflation-Linked Bonds
- High Yield
- Bank Loans
- Emerging Markets Debt

#### **Key PRIM Initiatives:**

- Project SAVE: More than \$100 million in annual fee savings realized; honored as a national model of public fund innovation. Next phase is exploration of internal management.
- Bold and timely move to de-risk portfolio
- Improved manager selection focusing on alpha
- Hedge fund replication and managed accounts we pay fees only for alpha
- Portfolio completion strategies seeking equities-like return and fixed income-level risk
- Private equity repeatedly #1 or #2 in U.S
- Michael Trotsky, CFA, Executive Director and Chief Investment Officer, awarded Chief Investment Officer Magazine's "CIO Innovation Award." (Dec. 2015)



### **Board Membership**

State Treasurer, and Receiver Deborah B. Goldberg

Appointee of the State Treasurer **Ruth Ellen Fitch** 

Designee of the **James Hearty** Governor

> Von-State Employee o Appointee of the Governor,

**Public Safety Carly Rose** 

Peter Monaco

Appointee of the Governor,

Theresa F. McGoldrick, ESQ

State Retirement Board Member

Teachers'

Board Member Dennis J. Naughton Retirement

Elected Representative State Teachers Retirement System

Robert L. Broussear **State Employees** Paul E. Shanley, Representative Retirement Elected



## Committee Membership

#### (12 Members) **Investment Committee**

- Deborah B. Goldberg, Chair
- Joseph Bonfiglio
- C. LaRoy Brantley
- Michael Even, CFA
- Constance M. Everson, CFA
- Ruth Ellen Fitch
- James B.G. Hearty
- Edward W. Kane
- Peter Monaco
- 10. Paul E. Shanley, Esq.
- 11. Glenn P. Strehle, CFA
- 12. Timothy L. Vaill

#### Committee (8 Members) **Real Estate & Timberland**

- Jill S. Hatton, CRE, Chair
- Deborah B. Goldberg
- Anthony E. Hubbard, Esq.
- **Dennis Kanin**
- Jack Lutz, Ph.D.
- William F. McCall, Jr., CRE
- Garlan Morse, Jr., CRE
- Peter F. O'Connell

#### (11 Members) **Administration & Audit Committee**

- Robert L. Brousseau, Chair
- Ted C. Alexiades, CFPO
- Patrick E. Brock
- Joseph Connolly
- Eileen Glovsky Karen E. Gershman, CPA
- Deborah B. Goldberg
- James B.G. Hearty
- Theresa F. McGoldrick, Esq.
- 10. Dennis J. Naughton
- 11. Michele A. Whitman, Esq.

#### **Compensation Committee** (5 Members)

- 5 4 8 2 1 Michele A. Whitman, Esq., Chair
- Patrick E. Brock
  - Robert L. Brousseau
  - Joseph Connolly
- Deborah B. Goldberg



### Organizational Update

#### PRIM New Hires and Promotions

- George Tsipakis, Manager of Real Estate & Timberland Reporting July 2016
- Christina Marcarelli, Investment Officer, Real Estate and Timberland May 2016
- Bill Li, Investment Analyst, Hedge Funds and Low Volatility Strategies May 2016
- Deb Coulter, CPA, Director of HR and Special Projects March 2016
- Eric Convey, Communications Director January 2016
- David M. Gurtz, CPA, CFA to Chief Operating Officer & Chief Financial Officer, October 2015
- Sarah N. Samuels, CFA to Deputy Chief Investment Officer, April 2015
- Hired 6 highly qualified interns for Summer 2016

### Maintained low employee turnover

- Only one senior member of team departed in fiscal year 2015 (for personal reasons)
- PRIM staff and advisors at PRIM are considered to be the best they have ever been

## ☐ Implemented PRIM Professional Development Program

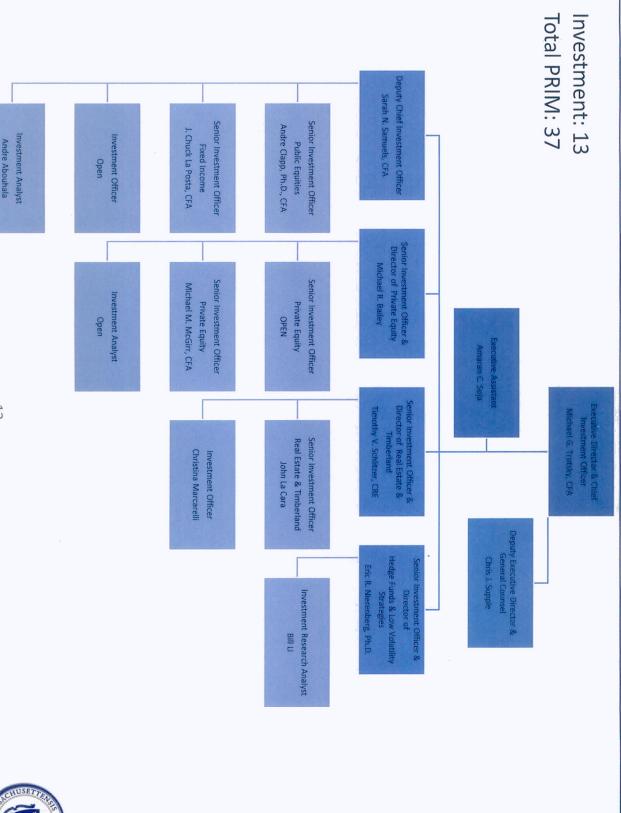
- A cross-training and career development program
- Designed to develop employee interdisciplinary skills and to reduce organizational silos
- Allows high-performing employees to grow their expertise beyond their core responsibilities
- Participants will rotate through private equity, real estate, hedge funds, and risk management for four month intervals to learn, contribute, and encourage cross fertilization of ideas and initiatives

## Creation of PRIM Investor Advisory Council

- Consist of Representatives from around the state who will serve two-year term
- Good forum to provide regular feedback to report back to the Board

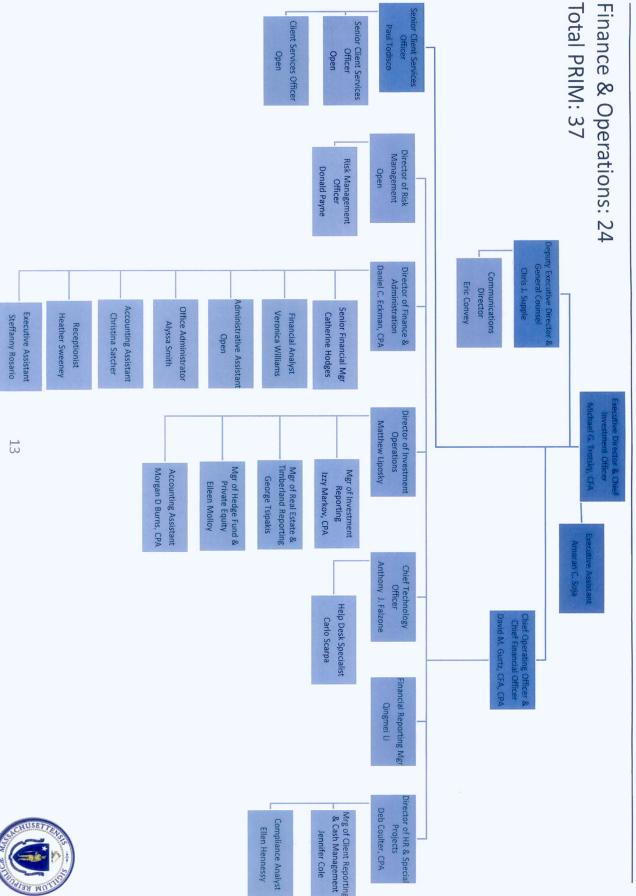


## **PRIM Organization - Investment**





# **PRIM Organization – Finance & Operations**





# Summary of Recent National Recognition

### **Recent Recognition and Awards:**

- Sarah N. Samuels, CFA, Deputy Chief Investment Officer, was awarded Banker & Tradesman's "Women of achievements and contributions to the industry in the past year. (June 2016) Eric Nierenberg, Ph.D., Director of Hedge Funds & Low Volatility Strategies, was awarded Institutional Investor magazine's Large Public Fund of the Year Award. The award recognizes performance innovation,
- FIRE award." The award recognizes the most talented, the most ambitious, the most innovative women in key sectors of the economy. (June 2016)
- consecutive year. (June 2016) Finance Officer Association's Certificate of Achievement for Excellence in Financial Reporting for the 11th David Gurtz, CFA, CPA, Chief Financial Officer and Chief Operating Officer, was award the Government
- Officer Magazine's "CIO Innovation Award." (December 2015) Michael Trotsky, CFA, Executive Director and Chief Investment Officer, was awarded Chief Investment
- Sarah Samuels, CFA, Deputy Chief Investment Officer was awarded the **Next Generation** Award by **Chief** who have made meaningful contributions to their organizations. (December 2015) Investment Officer Magazine. This is a worldwide award which recognizes up and coming asset owners
- innovative public plan sponsors in North America Intelligence Award for Excellence in Private Equity. The award recognizes the most outstanding and Michael Bailey, Senior Investment Officer – Director of Private Equity, was nominated for the Investor
- Committee at the National Association of Public Pension Attorneys (NAPPA) PRIM was lead plaintiff. Chris was also reappointed to a 2<sup>nd</sup> term as Co-Chair of the Securities Litigation Chris Supple, Deputy Executive Director and General Counsel, was awarded the Commonwealth's Citation *for Outstanding Performance*. This citation was awarded for Chris's work on Class Action lawsuits in which



# Summary of Recent National Recognition

Past
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<b>Buyouts Magazine</b> named PRIM as the best-performing private equity portfolio of the 22 largest pensions it evaluates for the 1-year, 3-year, 5-year, and 10-year time periods (February 2015)
PRIM was awarded its 10 <sup>th</sup> consecutive <b>Government Finance Officers Association (GFOA)</b> Certificate of Achievement for Excellence in Financial Reporting
Michael Trotsky, CFA, Executive Director & Chief Investment Officer was nominated for the 2014 aiCIO Magazine "Industry Innovation Award" (September 2014)
Michael Trotsky, CFA, Executive Director & Chief Investment Officer was named in the 2014 Sovereign Wealth Institute "Top 100 Public Investor List" (September 2014)
PRIM Awarded the <i>Institutional Investor</i> "Public Pension Plan of the Year" award (April 24, 2014)
Michael Trotsky, CFA, Executive Director & Chief Investment Officer was nominated for the <i>Institutional Investor</i> "Chief Investment Officer of the Year" Award (April 2014)
<b>The Private Equity Growth Capital Council</b> named PRIM #2 best performing private equity investment portfolio of 153 U.S. public pensions it considered (October 2014)



### **Top 10 Recent Innovations**

- Risk Management
- Managers Search
- Project SAVE
- 4. HF Revamp
- Alternative Risk Premia Strategies
- 6. HF Replication
- Portfolio Completion Strategies
- 8. Private Equity Co-Investment
- 9. Real Estate Co-Investment
- 10. Portfolio Insurance



# Project SAVE: Phase I Progress-to-date

	\$127.3 mm		TOTAL PROJECT SAVE PROGRAMS
	\$0.1mm	\$0.3mm	Private Equity Stock Distribution
	\$10.9 mm	\$15.2 mm	Securities Lending
	\$0	\$2 mm	Real Estate direct- or co-investment
			FOLLOW-ON PROGRAMS
115%	\$116.3 mm	\$101.2 mm	INITIAL PROGRAMS TOTALS
82%	\$0.6 mm	\$0.7mm	Securities Litigation
211%	\$14.8 mm	\$7 mm	Hedge Fund Replication
482%	\$33.7 mm	\$7 mm	Hedge Fund Fee Negotiations
2%	\$0.6mm	\$25 mm	Private Equity Co-Investment
129%	\$1.9mm	\$1.5 mm	Public Markets Fee Negotiations
133%	\$26.5 mm	\$20 mm	Cash Overlay Program
96%	\$38.2 mm	\$40 mm	Hedge Fund-of-Funds Unwind
			INITIAL PROGRAMS
ed Achieved	Value Realized	Value Target	
% of Target	Annualized	Annualized	PROJECT SAVE

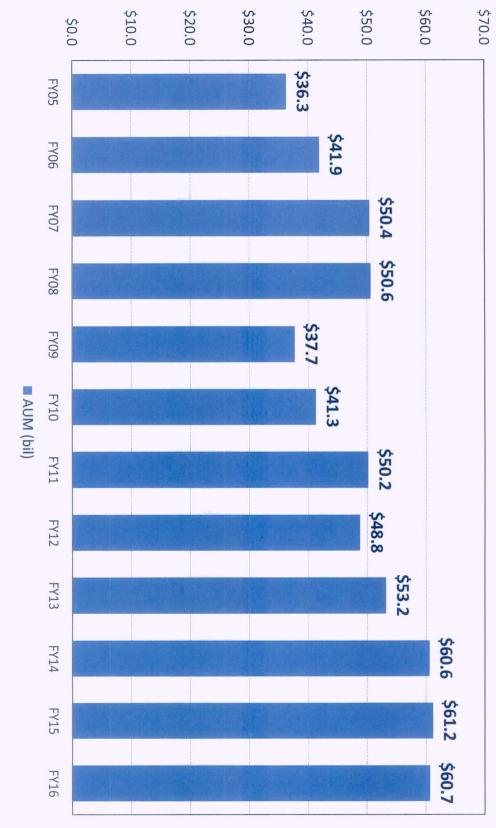


# Project SAVE: Phase II "Exploration of Internal Management"

- internal task force Michael Even, CFA, President and CEO of Numeric Investors and member of the PRIM Investment Committee, is leading an
- Seventeen of the top 20 U.S. public pension funds, ranked by AUM, do some internal management.
- Potential Benefits:
- Additional insight into markets
- Improved manager selection
- Improved manager monitoring
- Expanded ability to hire and retain superb employees
- Fee savings
- Next Steps:
- Visits by PRIM staff members leading the inquiry to a small number of funds that are similar to PRIM and do some internal management
- Ongoing discussions about which asset class or classes at PRIM might be suitable for internal management



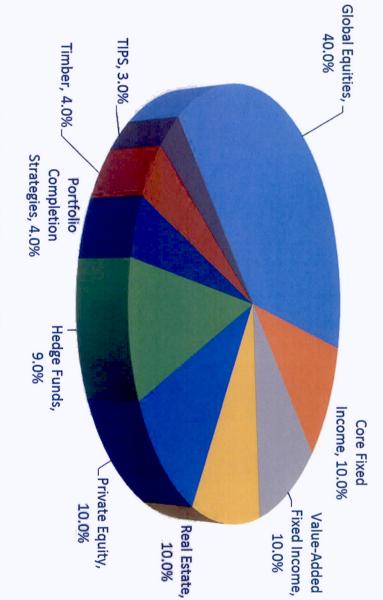
# Total PRIT Fund Fiscal Year Market Value (\$Billions)





# **PRIT Core Fund Asset Allocation Targets**

Adopted by the PRIM Board on February 2, 2016

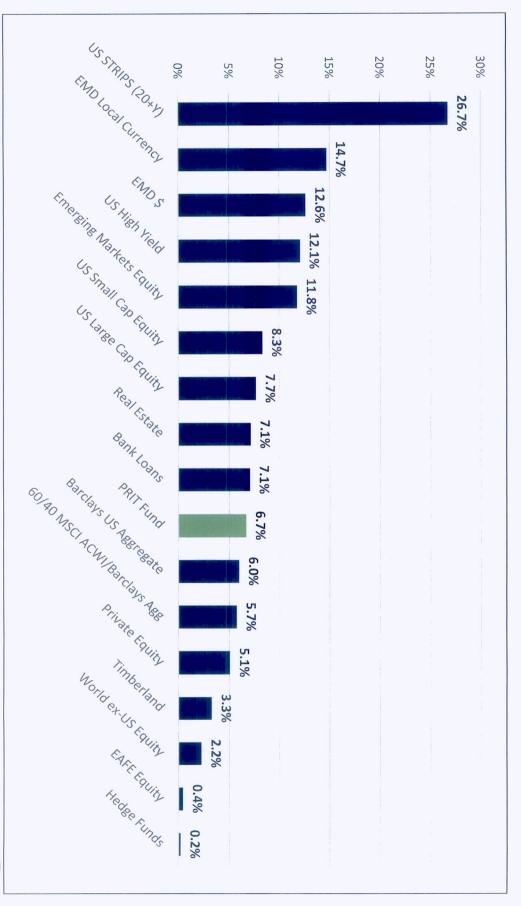


Sharpe Ratio	Risk (Standard Deviation)	30-Year Expected Return	5-7 Year Expected Return	
0.40	12.6%	7.9%	6.8%	Return/Risk



## **Asset Class Performance Summary**

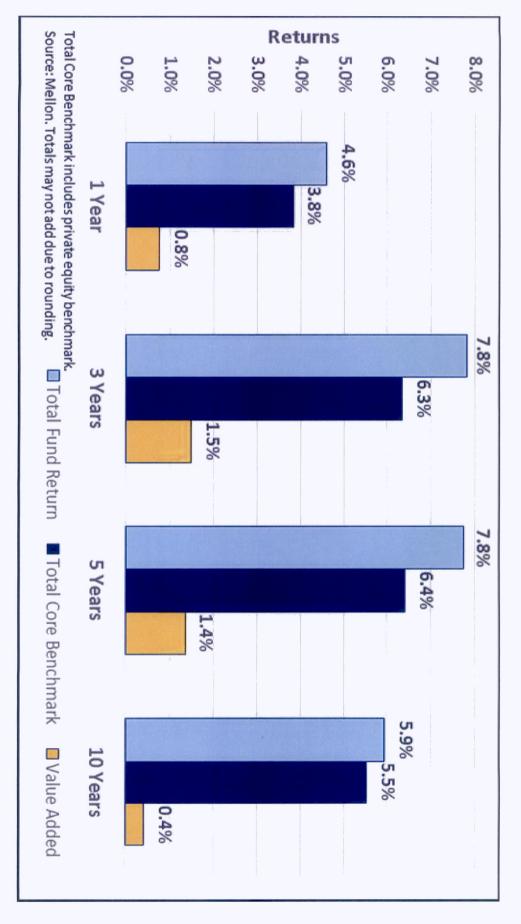
Calendar Year To Date Through July 31, 2016





### **Total PRIT Fund Returns**

Annualized Returns as of July 31, 2016

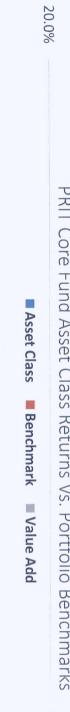


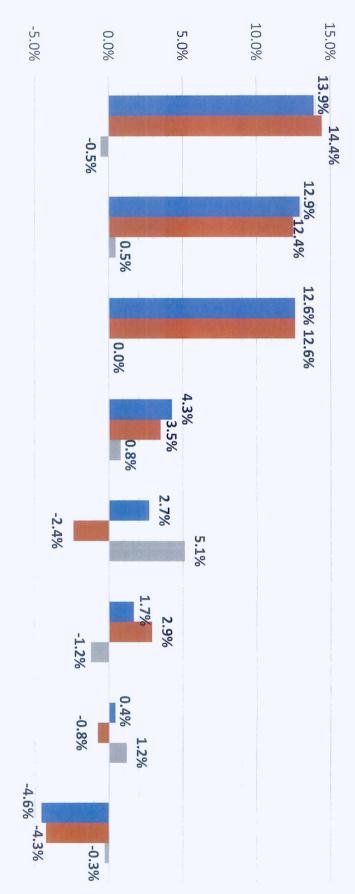


# PRIT Asset Class Performance (Gross of Fees)

One-Year Ending July 31, 2016

PRIT Core Fund Asset Class Returns Vs. Portfolio Benchmarks





-10.0%

Fixed Income Total Core Estate

Total Real

**Total Private** Equity\* **Total Portfolio** 

Completion

Strategies

Added Fixed Total Value

Timberland Total

Total Global Equity

Total Hedge Funds\*

<sup>\*</sup>Benchmark is actual performance

<sup>\*\*</sup>Hedge Fund returns are net of fees

Source: BNY Mellon. Totals may not add due to rounding

## PRIT Asset Class Performance Annualized Returns as of July 31, 2016

#### Periodic Table of Returns by Asset Class

HEDGE FUNDS (NET OF FEES) (4.6%)	GLOBAL EQUITY 0.4%	TIMBER 1.7%	VALUE-ADDED FIXED INCOME 2.7%	PRIVATE EQUITY 12.6%	REAL ESTATE 12.9%	1 Year CORE FIXED INCOME 13.9%
VALUE-ADDED FIXED INCOME 2.8%	HEDGE FUNDS (NET OF FEES) 3.0%	GLOBAL EQUITY 6.1%	TIMBER 7.4%	CORE FIXED INCOME 8.9%	REAL ESTATE 12.9%	3 Year PRIVATE EQUITY 17.9%
VALUE-ADDED FIXED INCOME 4.0%	HEDGE FUNDS (NET OF FEES) 4.0%	TIMBER 5.3%	CORE FIXED INCOME 6.6%	GLOBAL EQUITY 7.2%	REAL ESTATE 12.3%	5 Year PRIVATE EQUITY 15.9%
HEDGE FUNDS (NET OF FEES) 3.3%	GLOBAL EQUITY 5.0%	CORE FIXED INCOME 6.3%	TIMBER 6.8%	VALUE-ADDED FIXED INCOME 7.1%	REAL ESTATE 7.5%	10 Year PRIVATE EQUITY 14.4%



# Asset Classes & Regimes — One Year Ended July 31, 2016

Core CPI: +2.2% 30yr yields: -73 bps GDP Growth: +1.2%

**PRIT Fund** +4.6% Growth Rising **Falling** Return <-10% Return -10%-5% Return -5%-0% Return 0%-5% Low **US** Equities SMID Cap International Treasuries Long US +28% Equities High Yield +4% REITs +15% Emerging Equities Market LEGEND: One Year Return Ended July 31, 2016 +1% Private Equity +13% Inflation Hedge Funds EMD \$ Private +12% Debt EMD Local +5% Bank Loans Private Rea Estate +12% Timber +2% Return >10% High

Asset class returns represent PRIM's actual returns, gross of management fees (with the exception of hedge funds, which are net of fees).



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





# How Are Fees Allocated to SRBTF Participants?

Direct investment management fees paid to third party managers, paid by PRIM check	minimum and in the complimation of the following:
Ol wile.	□ Direct investment management fees paid to third party managers, paid by PRIM che or wire.

☐ Indirect investment management fees which are charged against investments by ☐ Costs for maintaining and operating PRIM's offices, paid by PRIM check or wire Hedge funds, etc.). commingled funds and private investment managers (private equity, real estate

\$700 million. paying the largest share of that fee, as it is the largest participant in the SRBTF, with assets over to less than one basis point. Again, such fee is allocated on a pro rata basis, with the state funding the operations of the SRBTF Board (the entity that oversees the SRBTF), which equates monthly costs. In addition to PRIM fees, there is the shared cost among SRBTF participants in shown on the monthly capital account statement will reflect one-fifth-of-one-percent of PRIT's a participant owns one-fifth-of-one-percent of the PRIT Fund/SRBTF, the management fee according to the percentage of the PRIT Fund/SRBTF that the participant owns. For example, if Each month-end, a participant in the PRIT Fund or SRBTF is allocated a share of these costs

