

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

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## **PRIT Fund Snapshot**

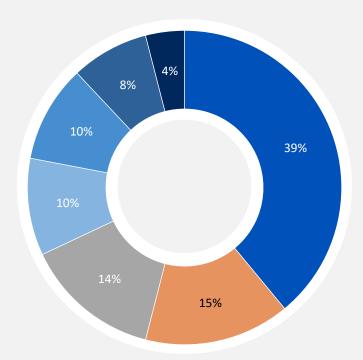
#### PRIT FUND FACTS

- \$90.1 billion AUM
- 50 public markets portfolios
- 16 real estate, timber and REIT portfolios
- 100+ private equity managers;
   200+ partnerships
- 32 portfolio completion strategies managers

#### **OVERSIGHT AND STAFFING**

- 9 appointed and elected trustees
- 4 advisory committees, consisting of 34 industry professionals and Board members
- Staff of 50 professionals
  - 2 PhDs
  - 11 CFAs
  - 6 CPAs
  - 2 CAIAs
  - 1 FRM
  - 1 CRE
  - 19 CFA Investment Foundations Program Certificate Holders

#### **ASSET ALLOCATION**



#### TARGET ASSET ALLOCATION

(as of 2/24/21)

- Global Equities 34% 44%
- Core Fixed Income 12% 18%
- Private Equity 11% 17%
- Porfolio Completion Strategies 7% 13%
- Real Estate 7% 13%
- Value-Added Fixed Income 5% 11%
- Timberland 1% 7%



## **About PRIM**



## \$90.1 billion investment fund that invests public employee pension benefits

- PRIM has a professional, experienced and focused investment staff.
- PRIM does not administer benefits.

# PRIM's mission is to relieve the pension funding burden on the taxpayer

- Self-funded agency which generates asset returns for the Massachusetts pension system.
- PRIM's Project SAVE initiative is approaching \$200 million annualized value enhancing activities for the fund annually.

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

- Massachusetts State Treasurer is the Chair of the PRIM Board.
- A robust committee structure lends investment and operational expertise to the decision-making process.





#### **PRIM Core Beliefs**

We believe that any investment must be evaluated on three equally important parameters: return, risk and cost.

We don't make tactical asset allocation decisions or investment decisions based on market or economic predictions. Instead, we engineer a strategic, long-term asset allocation strategy that we hope will stand the test of a long-time horizon.

We value a basis point of cost reduction more than a basis point of return. Because we can count on cost savings every year, but nobody ever really knows what the markets will deliver.

## **PRIM Top 10 Accomplishments**

Re-engineered Hedge Fund program – Stable organization: Exceptional staff with Portfolio Completion Strategies 1 low turnover supported by a strong, stable Direct hedge funds Board and Committee structure Hedge fund replication Emerging manager direct hedge fund National recognition for PRIM and 2 Hedge fund and other credit fund coits staff investment Strong relative and absolute investment Enhanced manager search and 3 8 performance selection process Sophisticated risk management platform 9 Private Equity co-investment 4 and framework 5 Methodical asset allocation decisions 10 Direct Real Estate Program 6 Project SAVE



## **PRIM Board**



## Chair DEBORAH B. GOLDBERG

State Treasurer and
Receiver-General,
Commonwealth of Massachusetts



Ruth Ellen Fitch

Appointee of the State Treasurer



James B.G. Hearty

Designee of the Governor, Ex Officio Member



Peter Monaco

Appointee of the Governor, Non-State Employee or Official



**Carly Rose** 

Appointee of the Governor, Public Safety



Theresa F.
McGoldrick,
Esquire

State Retirement Board Member (SRB)



Dennis J. Naughton

Teachers'
Retirement
Board
Member
(TRB)



Robert L. Brousseau

Elected Representative State Teachers' Retirement System



Paul E. Shanley, Esquire

Elected Representative State Employees Retirement System





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. Members include:

- 1. Deborah B. Goldberg, Chair, Treasurer and Receiver General of Massachusetts, PRIM Board Chair (Ex Officio)
- 2. Joseph C. Bonfiglio, Massachusetts & Northern New England Laborers' District Council
- 3. C. LaRoy Brantley, Investment Consultant
- **4. Michael Even**, Former President and CEO, Numeric Investors
- **5. Constance M. Everson**, CFA, Managing Director, Capital Markets Outlook Group
- **6. Ruth Ellen Fitch**, Esq., Board Member, Former President and CEO, the Dimock Center
- 7. James B. G. Hearty, Board Member, Former Partner, Clough Capital (Ex Officio)
- 8. Peter Monaco, Board Member, Managing Director, Raptor Group
- Phillip H. Perelmuter, Former Managing Partner, Wellington Management
- 10. Philip Rotner, Chief Investment Officer, Boston Children's Hospital
- **11. Paul E. Shanley**, Esq., Board Member, Director of Professional Liability, Amity Insurance
- 12. Glenn P. Strehle, CFA, Treasurer Emeritus, MIT
- **13. Timothy L. Vaill**, Former Chairman and CEO, Boston Private Holdings

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

- 1. Jill S. Hatton, CRE, Chair, Real Estate Investment Professional
- 2. **Deborah B. Goldberg**, Treasurer and Receiver General of Massachusetts, PRIM Board Chair (Ex Officio)
- 3. Lydia Chesnick, Esq., Partner, Bernkopf Goodman LLP
- 4. Robert Gifford, RGA Corp.
- 5. Anthony E. Hubbard, Esq., CVS Health
- 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, Board Member, Public Safety Union Member



#### Administration and Audit Committee

Compensation Committee

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. Members include:

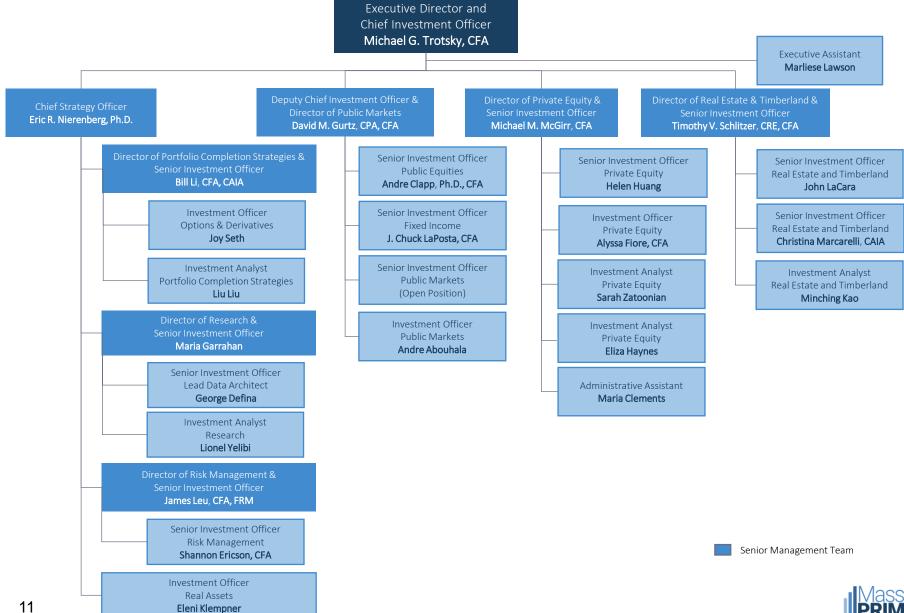
- 1. Robert L. Brousseau, Chair, Board Member, Retired Teacher, Town of Wareham School System
- 2. **Deborah B. Goldberg**, Treasurer and Receiver General of Massachusetts, PRIM Board Chair (Ex Officio)
- 3. Patrick E. Brock, Chairman, Hampshire County Retirement Board
- **4. Karen E. Gershman**, CPA, Former Partner and Chief Operating Officer, Health Advances
- **5. James B. G. Hearty**, Board Member, Former Partner, Clough Capital (Ex Officio)
- **6.** Theresa F. McGoldrick, Esq., Board Member, National Executive Vice President, National Association of Government Employees (NAGE)
- 7. Dennis J. Naughton, Board Member, Retired Educator, Millis Public Schools
- 8. Michele A. Whitham, Esq., Founder & Principal, Whitham Law LLC

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. Members include:

- 1. Michele A. Whitham, Esq., Chair, Founder & Principal, Whitham Law LLC
- **2. Deborah B. Goldberg**, Treasurer and Receiver General of Massachusetts, PRIM Board Chair (Ex Officio)
- **3. Robert L. Brousseau**, Board Member, Retired Teacher, Town of Wareham School System
- 4. Patrick E. Brock, Chairman, Hampshire County Retirement Board

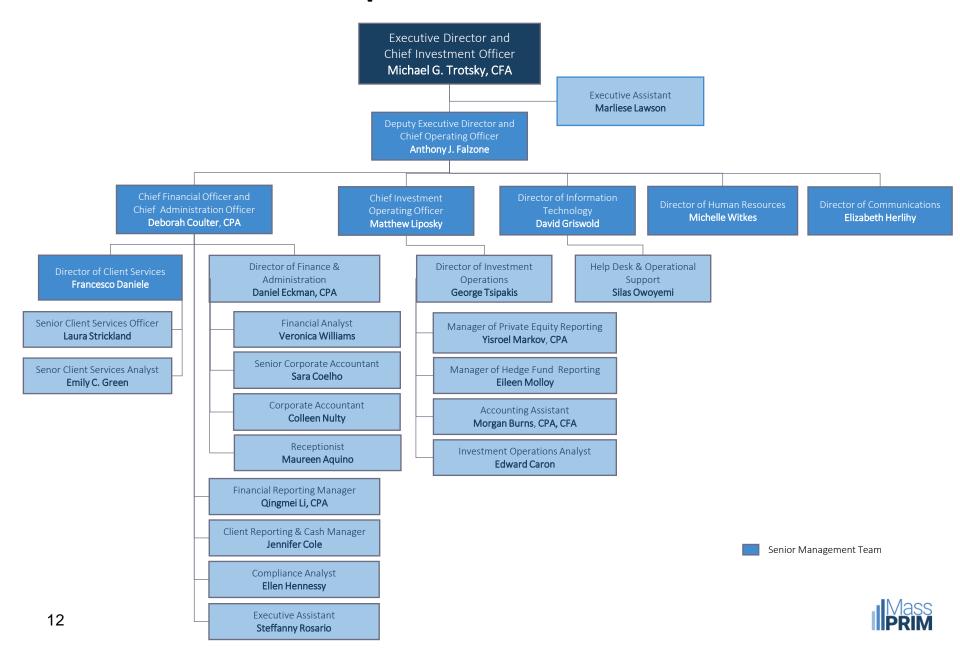


#### **PRIM Investment Team**





## **PRIM Finance and Operations Team**



#### **External Advisors**

#### **Fund Advisors**

- NEPC Asset Allocation
- Callan Associates Public Markets and Real Estate
- Aberdeen Asset Management Hedge Fund and Real Estate
- Hamilton Lane Private Equity and Real Estate & Timberland
- Bard Consulting Real Estate & Timberland
- Chatham Financial Group Real Estate & Timberland
- Eigen 10 Advisors Real Estate & Timberland
- Harvest Capital Partners Real Estate & Timberland
- Legacy Appraisal Services Real Estate & Timberland
- RCLCO Fund Advisors Real Estate & Timberland
- Real Estate Fiduciary Services Real Estate & Timberland
- Buckhead Resources Real Estate & Timberland
- Coast and Harbor Real Estate & Timberland
- Meketa Investment Group Real Estate & Timberland
- Albourne Operational due diligence

#### **Independent Auditors**

 KPMG, LLP – PRIM Board and PRIT Fund, Real Estate, Timber, and SASE 16 Reviews

#### Other

- O'Neill and Associates Communications
- Edgewater Technology IT support

#### Custodian

• BNY Mellon Corporation

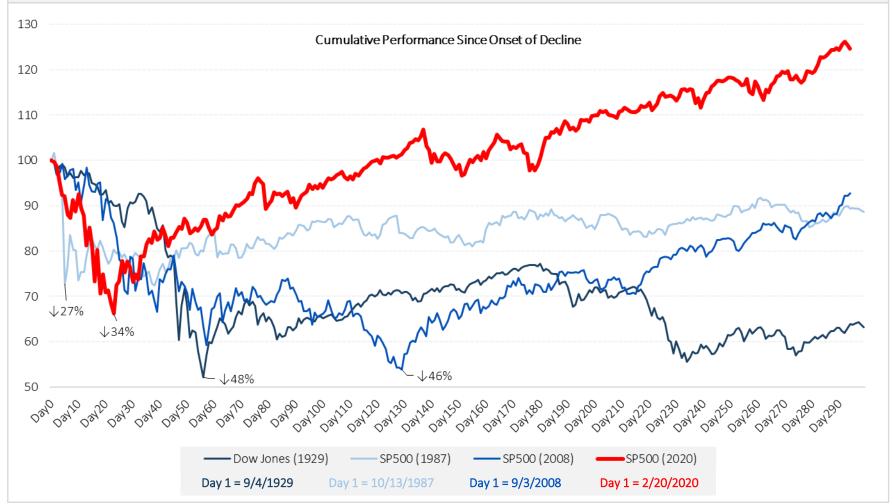




## **Unprecedented Sharp Decline and Recovery**

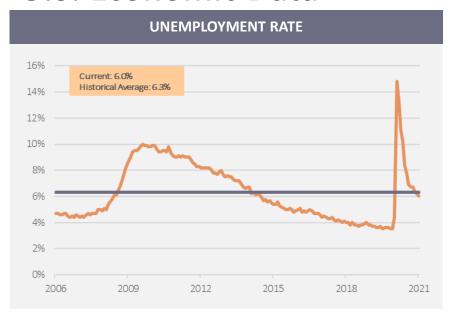
As of April 20, 2021

- Velocity of COVID-19 sell-off surpassed that of GFC.
- Rebound velocity also surpassed that of previous sell-offs.
- S&P 500 reached new high in April 2021.





## **U.S. Economic Data**



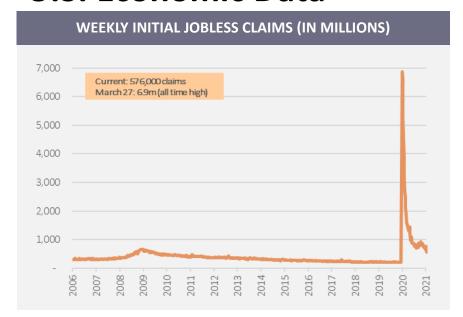


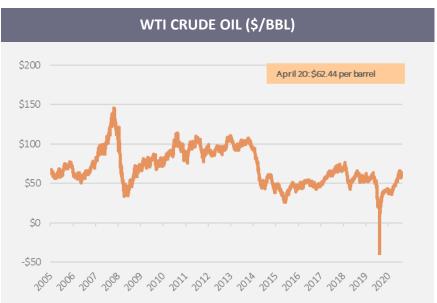


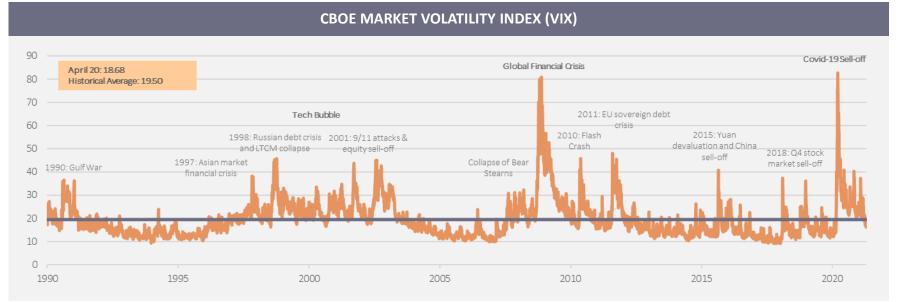


 $16 \, {\hbox{Source: FactSet, PRIM Staff. All data as of March 31, 2021}} \, {\hbox{or most recent report.}}$ 

#### **U.S. Economic Data**

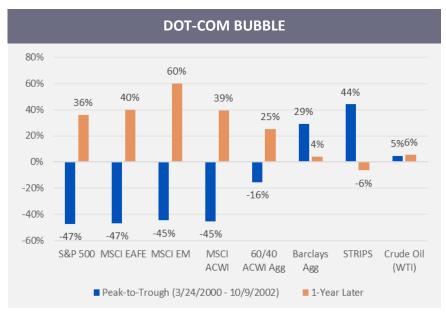






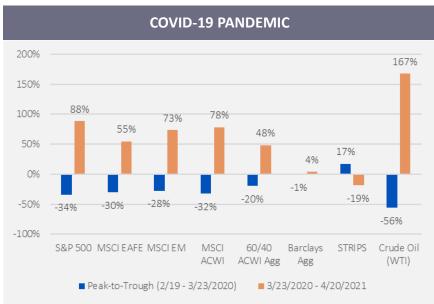
 $17 \, \mathsf{Source:} \, \mathsf{FactSet}, \, \mathsf{PRIM} \, \mathsf{Staff.} \, \, \mathsf{All} \, \, \mathsf{data} \, \mathsf{as} \, \, \mathsf{of} \, \mathsf{April} \, \mathsf{20,2021} \, \mathsf{or} \, \, \mathsf{most} \, \mathsf{recent} \, \mathsf{report.}$ 

#### **Historical Market Sell-Off Performance**





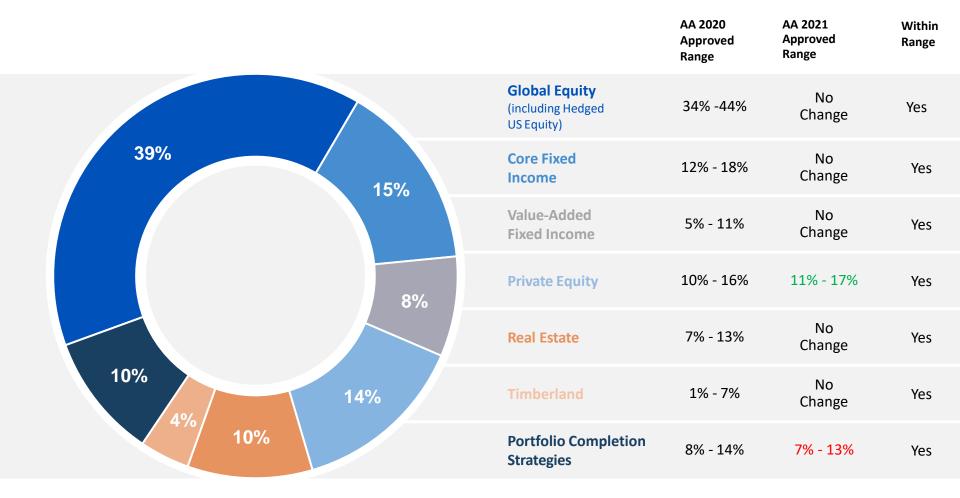






#### **PRIT Asset Allocation**

Approved February 24, 2021



The ranges in the PRIM asset allocation reflect the long-standing use of bands around a midpoint. Managing the asset allocation to a particular midpoint in the range is not always possible, practical or advisable.



## Changes to Target Ranges – PRIT Fund Asset Allocation

Approved February 24, 2021

## Increase in Allocation Range

#### **Private Equity:**

Target Band moves up 1%

#### Same Allocation Range

#### **Global Equity:**

Target Band stays the same

#### **Core Fixed Income:**

Target Band stays the same

#### Value-Added Fixed Income:

Target Band stays the same

#### **Real Estate:**

Target Band stays the same

#### **Timberland:**

Target Band stays the same

## Decrease in Allocation Range

## Portfolio Completion Strategies:

Target Band moves down 1%



#### **PRIM 2021 Asset Allocation Recommendations**

#### NEPC Capital Market Assumptions with PE and PCS Changes

#### 12/31/20 Asset Class Assumptions

| Asset Classes                                |       | ed Asset<br>on Range | 10 Yr. Expected<br>Return | 30 Yr. Expected<br>Return |  |  |
|--|-------|----------------------|---------------------------|---------------------------|--|--|
| US Equity <sup>1</sup>                       | 21.2% |                      | 5.5%                      | 6.4%                      |  |  |
| International Equities <sup>2</sup>          | 11.8% |                      | 5.9%                      | 6.6%                      |  |  |
| Emerging International Equities <sup>2</sup> | 5.0%  |                      | 7.6%                      | 8.4%                      |  |  |
| Hedged Equity <sup>3</sup>                   | 1.0%  |                      | 4.8%                      | 5.7%                      |  |  |
| Global Equity 34% - 44%                      |       |                      |                           |                           |  |  |
| Core Bonds                                   | 7.0%  |                      | 1.4%                      | 2.7%                      |  |  |
| Short-Term Fixed Income <sup>4</sup>         | 1.0%  |                      | 1.0%                      | 2.0%                      |  |  |
| 20+ Yr. Treasury STRIPS                      | 3.0%  |                      | 0.4%                      | 1.7%                      |  |  |
| TIPS/ILBs                                    | 4.0%  |                      | 1.0%                      | 2.1%                      |  |  |
| Core Fixed Income                            |       | 12% - 18%            |                           |                           |  |  |
| Value-Added Fixed Income <sup>5</sup>        |       | 5% - 11%             | 4.8%                      | 6.2%                      |  |  |
| Private Equity                               |       | 11% - 17%            | 9.6%                      | 10.2%                     |  |  |
| Real Estate <sup>6</sup>                     |       | 7% - 13%             | 4.8%                      | 6.0%                      |  |  |
| Timberland <sup>7</sup>                      |       | 1% - 7%              | 5.4%                      | 6.6%                      |  |  |
| Portfolio Completion (PCS) <sup>8</sup>      |       | 7% - 13%             | 4.0%                      | 5.2%                      |  |  |
| Total Fund Expected Return <sup>9</sup>      |       |                      | 5.8%                      | 6.8%                      |  |  |

- 1. Blended allocation to large-cap equity (85%) and small-cap equity (15%)
- 2. Blended allocation to large-cap equity (90%) and small-cap equity (10%)
- 3. Modeled as US LIBOR, US large-cap equity, and US small-cap equity
- 4. Modeled as short-term Treasury
- 5. Modeled as 50% High Yield and 50% Private Debt

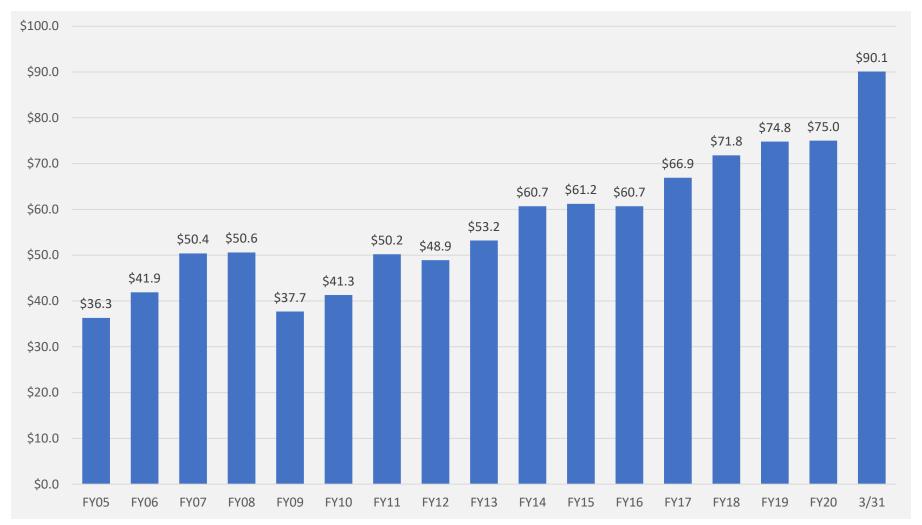
- 6. Real Estate is modelled as 80% Private Real Estate and 20% REITs
- 7. Timberland is modeled as Private Real Assets Infrastructure/Land
- 8. Modeled as equal weighed blend of Hedge Fund Equity, Credit and Macro
- 9. Asset classes modeled as the midpoint of the asset allocation range





#### **Total PRIT Fund Fiscal Year Market Value**

Value (\$Billions)

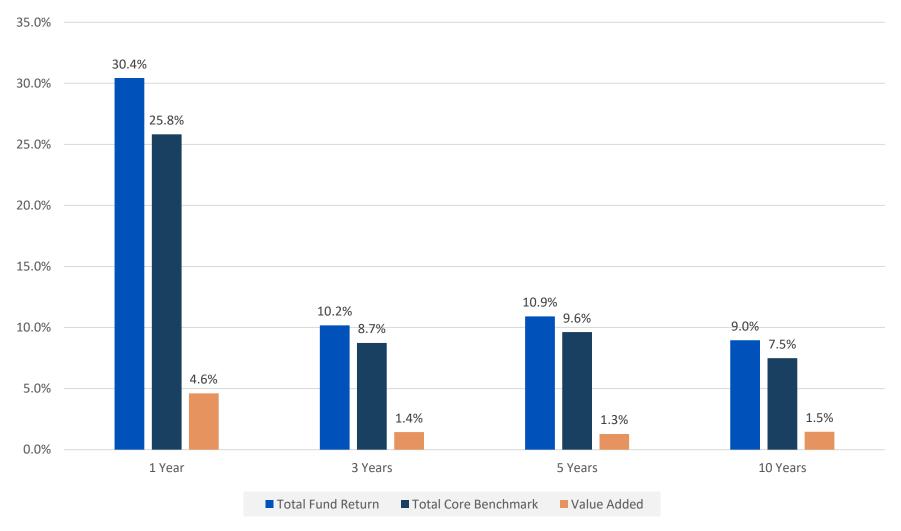


Source: BNY Mellon. As of March 31, 2021.



#### **PRIT Fund Total Returns**

Annualized Returns as of March 31, 2021 (Gross of Fees)

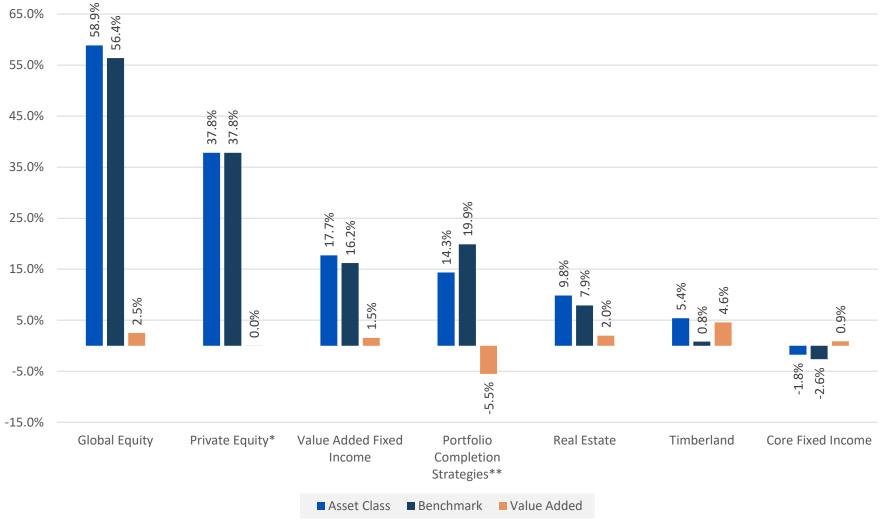


Source: BNY Mellon. Total Core Benchmark includes private equity benchmark.



## **PRIT Asset Class Performance Summary**

One-Year Ended March 31, 2021 (Gross of Fees)

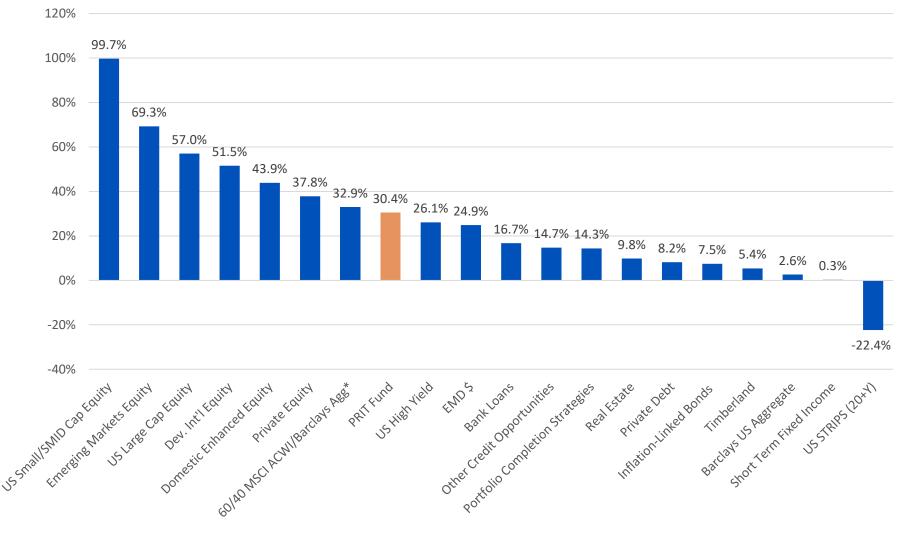






## PRIT Performance By Strategy – One-Year

One-Year Ended March 31, 2021 (Gross of Fees)

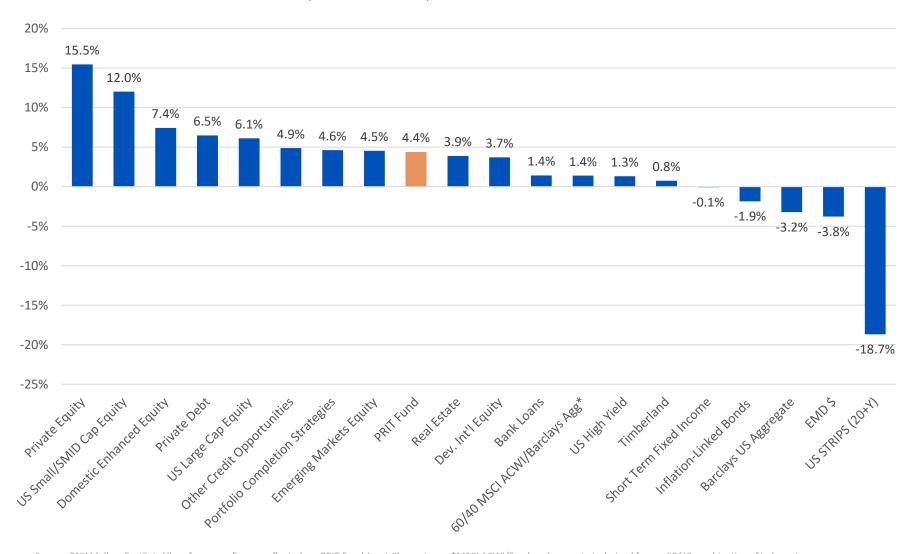


Source: BNY Mellon, FactSet. All performance figures reflected are PRIT Fund Asset Class returns. \*MSCI ACWI/Barclays Aggregate is derived from a 60/40 combination of index returns.



## PRIT Performance By Strategy – First Quarter 2021

Quarter Ended March 31, 2021 (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.



## **PRIT Fund Annualized Returns By Asset Class**

As of March 31, 2021 (Gross of Fees)

| 1 Year                                      | 3 Year                                     | 5 Year                                     | 10 Year                                    |
|---|--|--|--|
| GLOBAL EQUITY<br>58.9%                      | PRIVATE EQUITY<br>24.5%                    | PRIVATE EQUITY<br>22.6%                    | PRIVATE EQUITY<br>19.8%                    |
| PRIVATE EQUITY<br>37.8%                     | GLOBAL EQUITY<br>11.9%                     | GLOBAL EQUITY<br>13.7%                     | GLOBAL EQUITY<br>9.7%                      |
| VALUE-ADDED FIXED INCOME<br>17.7%           | REAL ESTATE<br>6.8%                        | REAL ESTATE<br>7.1%                        | REAL ESTATE<br>9.6%                        |
| PORTFOLIO COMPLETION<br>STRATEGIES<br>14.3% | CORE FIXED INCOME<br>5.8%                  | VALUE-ADDED FIXED INCOME<br>6.7%           | VALUE-ADDED FIXED INCOME<br>5.4%           |
| REAL ESTATE<br>9.8%                         | VALUE-ADDED FIXED INCOME<br>5.0%           | PORTFOLIO COMPLETION<br>STRATEGIES<br>5.0% | CORE FIXED INCOME<br>4.8%                  |
| TIMBER<br>5.4%                              | PORTFOLIO COMPLETION<br>STRATEGIES<br>3.6% | TIMBER<br>4.3%                             | TIMBER<br>4.7%                             |
| CORE FIXED INCOME<br>(1.8%)                 | TIMBER<br>2.4%                             | CORE FIXED INCOME<br>3.8%                  | PORTFOLIO COMPLETION<br>STRATEGIES<br>4.2% |

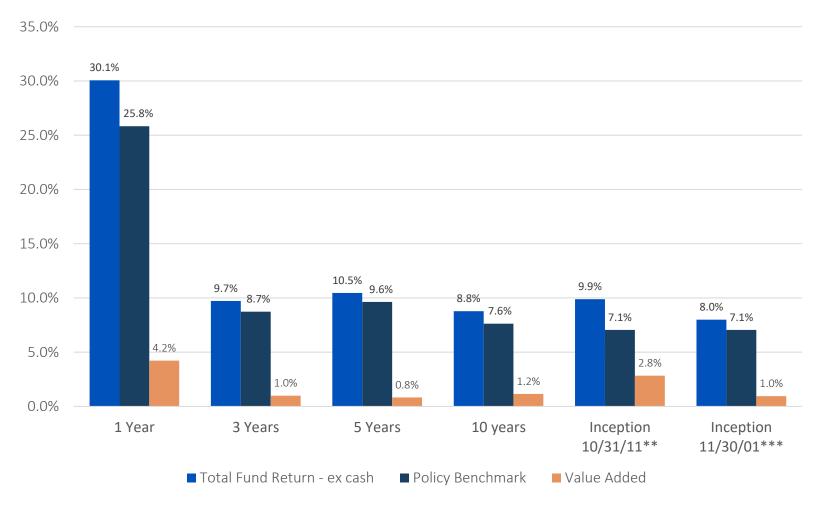
Source: BNY Mellon.





#### **Total SRBT Fund Returns**

\$2.48 Billion\* One Year Ended March 31, 2021 (Net of Fees)



<sup>\*</sup>Participant assets, excluding Mass State Retirees, were \$770.6 million as of March 31, 2021

<sup>\*\*</sup> 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. This ITD value of 9.9% reflects the inception-to-date return for PRIT GA assets only.







# 

- 1. Acton-Boxborough Regional School District
- 2. Andover\*
- 3. Amherst-Pelham Regional School District
- 4. Andover
- 5. Ayer Shirley Regional School District
- 6. Belmont
- 7. Bernardston
- 8. Bridgewater
- 9. Byfield Water District
- 10. Cape Cod Regional Transit Authority\*
- 11. Cape Cod Light Compact (JPE)
- 12. Chelmsford Water District
- 13. Concord\*
- 14. Dartmouth
- 15. Dracut
- 16. Freetown
- 17. Foxboro
- 18. Greater Lawrence Sanitary District
- 19. Greenfield
- 20. Gloucester\*
- 21. Groton
- 22. Halifax
- 23. Haverhill
- 24. Hull
- 25. Lawrence
- 26. Longmeadow
- 27. Lynn\*
- 28. Massachusetts Association of Regional Planning Agencies (MARPA)
- 29. Massachusetts Housing Finance Authority
- 30. Medway
- 31. Melrose
- 32. Middlesex Country Retirement System\*

- 33. Mohawk/Hawlemont Regional School District (Buckland)
- 34. Nauset Regional High School
- 35. Newbury
- 36. Pepperell
- 37. Prospect Hill Academy Charter School
- 38. Saugus\*
- 39. Somerset
- 40. Springfield
- 41. Stoneham
- 42. Sudbury
- 43. Taunton
- 44. Tri-County Educational Collaborative (Franklin, MA)
- 45. Truro
- 46. Waltham
- 47. Watertown
- 48. West Boylston Municipal Light Department
- 49. Westford
- 50. West Newbury
- 51. Weston
- 52. Winthrop
- 53. Woburn

\*New Listing



# Governmental Entities Participating in the SRBTF

- 1. Town of Acton
- 2. Town of Amherst
- 3. Town of Ayer
- 4. Town of Bedford
- 5. Town of Bellingham
- 6. City of Beverly
- 7. BiCounty Educational Collaborative, Franklin, MA
- 8. Town of Blackstone
- 9. Boston Redevelopment Authority
- 10. Town of Boxford
- 11. Town of Braintree
- 12. Town of Brewster
- 13. Town of Brookline
- 14. Town of Burlington
- 15. Byfield Water District
- 16. Town of Chelmsford
- 17. Concord Area Special Education (CASE) Collaborative
- 18. Town of Cohasset
- 19. Town of Dalton
- 20. Town of Dracut
- 21. Town of Dedham
- 22. Town of East Bridgewater
- 23. Fall River Housing Authority
- 24. City of Fitchburg
- 25. Town of Franklin
- 26. Franklin Regional Council of Governments

- 27. Greater Lowell Regional Technical School
- 28. Town of Harvard
- 29. Town of Hingham
- 30. Town of Holliston
- 31. Town of Ipswich
- 32. Town of Lancaster
- 33. Lawrence Housing Authority
- 34. Town of Lenox
- 35. City of Leominster
- 36. Town of Lincoln
- 37. Lincoln-Sudbury Regional School District
- 38. Town of Longmeadow
- 39. Lowell Regional Transit Authority (LRTA)
- 40. Lower Pioneer Valley Educational Collaborative
- 41. Town of Manchester-By-The-Sea
- 42. Manchester Essex Regional School District
- 43. Town of Marblehead
- 44. Marblehead Municipal Light Department
- 45. Massachusetts School Building Authority
- 46. Mass State Retirees (SRBTF)
- 47. Mass Water Resources Authority
- 48. Town of Medfield
- 49. Town of Middleton
- 50. Town of Milton
- 51. Town of Montague
- 52. Nashoba Regional School District

- 3. Town of Needham
- 54. City of New Bedford
- 55. City of Newburyport
- 56. City of Newton
- 57. Town of North Andover
- 58. Town of Northborough
- 59. Town of Northfield
- 60. Old Rochester Regional School District
- 61. Town of Orleans
- 62. Pilgrim Area Collaborative (PAC), Pembroke, MA
- 63. Town of Provincetown
- 64. Quabbin Health District
- 65. Town of Reading
- 66. Shawsheen Valley Technical High School, Billerica, MA
- 7. Town of Sherborn
- 68. South Hadley Fire District
- 69. Town of Stockbridge
- 70. Town of Tewksbury
- 71. Town of Wakefield
- 72. Wakefield Municipal Gas & Light Department
- 73. Town of Wayland
- 74. Town of Wellesley
- 75. Town of Westwood
- 76. Town of Wilmington
- 77. City of Worcester



