BPL FINANCE AND AUDIT COMMITTEE

Evelyn Arana Ortiz, Committee Chair 3.14.23

Members of the Public may sign up for Public Comment via the CHAT by 9:00 a.m. Comments left in the chat will not be acknowledged. written comments may be submitted to the Clerk of the Board, <u>pcarver@bpl.org</u>

BPL OPENING STATEMENT

The Trustees of The Boston Public Library reaffirm our commitment to racial equity and to principles of diversity equity and inclusion, more broadly.

The Library is formally committed to becoming an anti-racist organization in response to systemic racism, inequity, and injustice prevalent in our society.

We acknowledge also that the Boston Public Library's Central Library stands on land that was once a water-based ecosystem providing sustenance for the indigenous Massachusetts people and is a place which has long served as a site of meeting and exchange among nations. We are committed to land acknowledgements for all locations at which we operate.

We reaffirm this commitment to set the context for our planning, deliberations, and public engagement so that they take place from the spirit of welcome and respect, found in our motto 'free to all.'

Taken from the Institutional Statement Ratified by the Board of Trustees for the Boston Public Library on September 29, 2020.



F&A COMMITTEE

Evelyn Arana Ortiz, Committee Chair

- Welcome Remarks
- Roll Call of Committee Members
- Approval of Meeting Minutes from January 10, 2023







MARKET AND PORTFOLIO UPDATE

BOSTON PUBLIC LIBRARY

MARCH 21, 2023

Sebastian Grzejka, CAIA, Partner Alexandra Sollers, CFA, Consultant



PROPRIETARY & CONFIDENTIAL

2022 HIGHLIGHTS





- <u>Sarah Samuels wins With</u> <u>Intelligence/The Allocator</u> <u>"Advisor of the Year" award</u>
- <u>NEPC nominated for "Consultant of</u> <u>the Year" and for "Diversity" at the</u> <u>CIO Awards.</u>

¹As of 10/1/2022. Assets in millions. AUA = Assets Under Advisement (advisory mandates). AUM = Assets Under Management (OCIO/Discretionary mandates) ²These ratings or awards may not be representative of any one client's experience with NEPC. Any rating or award is representative of NEPC's past performance only and is not indicative of NEPC's future performance, nor does it indicate an endorsement of NEPC. NEPC did not pay a fee in connection with these awards. ³In May 2022, NEPC received an NPS score of 74.2% on a range of -100% to 100%. Any score above 0% indicates more promoters than detractors.



NEPC FOUNDATION & ENDOWMENT PRACTICE

DEDICATED PHILANTHROPIC PRACTICE GROUP OF 53 PROFESSIONALS INCLUDING EIGHT PARTNERS

NEPC FOUNDATIONS & ENDOWMENTS

155 Funds | Assets: \$104 billion







AVERAGE ENDOWMENT \$1.4 billion





As of 10/1/2022

NEPC'S ANNUAL INVESTMENT CONFERENCE SAVE THE DATE

- Please save the date for our Investment Conference on Tuesday, May 9 and Wednesday, May 10
- We are thrilled to welcome you back to Boston this year at the Renaissance Boston Waterfront Hotel.
- In addition to our dynamic speakers and breakout sessions, there will also be plenty of opportunities to network with your peers
- Registration and additional details will follow in the coming weeks. Please reach out to Sarah Winrow: <u>swinrow@nepc.com</u> with any questions



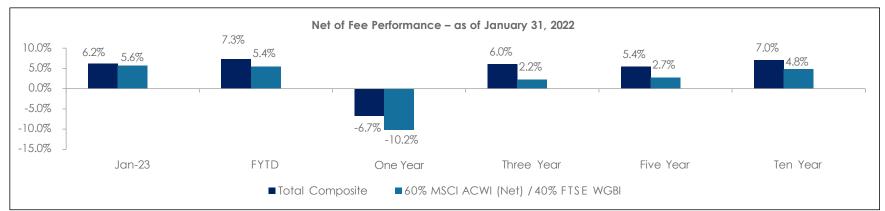




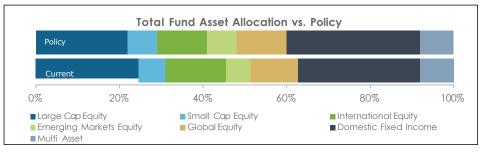
EXECUTIVE SUMMARY



TOTAL FUND EXECUTIVE SUMMARY







Overview of Portfolio and Considerations

Asset Allocation

- The Fund is generally in line with long term target allocation, and we do not recommend changes to the allocation currently
- NEPC will work with the Committee and Staff on rebalancing for annual draw

Performance

- Long term performance is strong on both an absolute and relative basis
- January performance benefited from active management, especially across equities, as the Fund outperformed the 60/40 Index by 60 bps for the month



Boston Public Library TOTAL FUND PERFORMANCE DETAIL (NET)

	ļ	Allocation						Pe	rformand	e (%)	
	Market Value (\$)	% of Portfolio	Policy (%)	1 Mo (%)	FYTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inceptio n (%)	Inception Date
Composite	68,875,892	100.0	100.0	6.2	7.3	-6.7	6.0	5.4	7.0	9.1	Jan-81
Total Domestic Educet) / 40% FTSE WGBI	21.361.351	31.0	29.0	ð:5	1∳:6	-1 9.3	1 0 :2	9 .3	12.9	12.4	Dec-10
S&P 500 Index				6.3	8.7	-8.2	9.9	9.5	12.7	13.5	
Diamond Hill Large Cap Class Y Shares	8,201,245	11.9		6.4	11.9	-5.5	9.2	7.8	-	-	Mar-17
Russell 1000 Value Index				5.2	11.6	-0.4	8.5	6.9	-	8.1	
Segall Bryant & Hamill Small Cap	4,491,123	6.5		6.5	17.2	0.2	13.1	10.6	-	9.8	Jan-15
Toraphiternationalecouity	9.990.738	14.5	12.0	9:0	1 2 :4	-2:5	8.8	4.3	-	5 .5	Mav-14
Tolafelderdingtharklestellativ	4.019.486	5.8	7.0	<u>8</u> :5	1 <u>1.3</u>	-17:7	-4:4	1. <u>4</u>	:	3.4 2.6	Jun-19
MSCI Emerging Markets (Net)				7.9	4.7	-12.1	1.4	-	-	3.4	
Total Global Equity	7,874,941	11.4	12.0	9.3	11.0	-5.9	-	-	-	20.9	Apr-20
Impax Global Resource Optimization Fund	7,874,941	11.4		9.3	11.0	-5.9	-	-	-	20.9	Apr-20
Totapoblestic Hiledrickine	20.069.825	29.1	32.0	2 :9	Ø:Ś	-7:6	-0.8	1.3	1.8	16.3	Dec-10
Blmbg. U.S. Aggregate Index				3.1	0.0	-8.4	-2.3	0.9	1.4	3.0	
SSgA Treasury Inflation Protected Securities	3,938,818	5.7		2.0	-1.4	-8.4	1.1	2.6	-	2.4	Jan-18
Blmbg. U.S. TIPS				1.8	-1.4	-8.4	1.1	2.7	-	2.4	
Manulife Asset Management	4,853,151	7.0		3.1	3.7	-5.2	-0.4	1.4	-	2.0	Jan-17
Blmbg. Global Aggregate				3.3	0.5	-11.7	-3.9	-1.3	-	0.3	
State Street U.S. Treasury Index Non-Lending Common Trust Fund	5,707,966	8.3		2.7	-1.3	-8.6	-	-	-	-5.8	Jun-21
Tofan Baranced regaring Index	5.559.551	8.1	8.0	5 :2	- <u>1</u> -2 6:0	-5:4	5.7	3.9	3.9	-4.9	Jul-12
PIMCOMICASAL ASSETTINGS of 40% Bloomberg Aggregate / 30% Bloomberg US 1	TIPS Index/ 10%	S&P 500 / 10)% HY / 10	ю Э РФ1 е	EMBI2+0TR	-7.9	0.1	2.3	2.8	3.0	

-New Policy % targets as of 4/1/2020; Returns are net of fees.



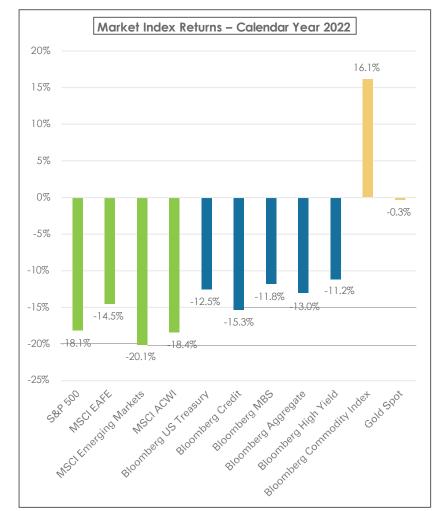


MARKET OVERVIEW



2022 YEAR IN REVIEW

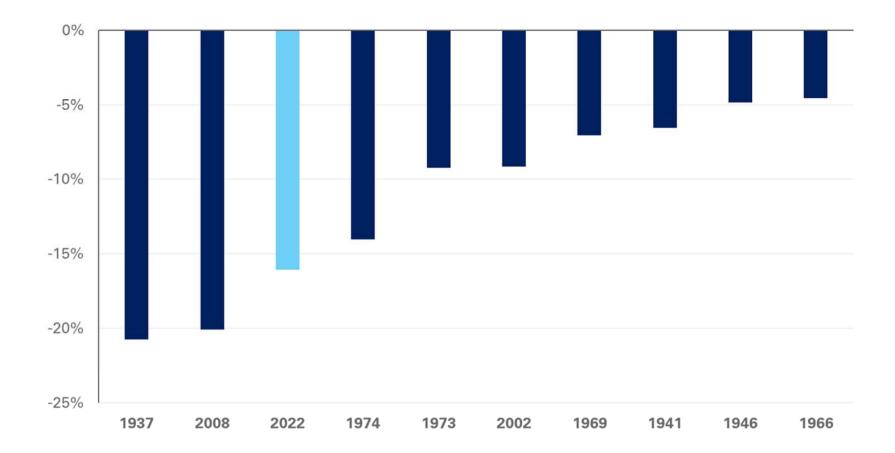
- Global equities delivered negative returns in 2022, due to central banks around the globe tightening monetary policies amid persisting inflationary pressures despite softening economic growth
 - Domestic stocks had one of the worst years on record, with the S&P 500 returning -18.1%
 - International developed-market equities fell -14.5%, while emerging markets had the largest drawdown at -20.1%
- The Federal Reserve raised the federal funds rate seven times in 2022 to combat inflation, ending the year at a range of 4.25% - 4.50%
 - Returns across investment grade bonds were negative for the year, as interest rates began to climb
- Commodity prices surged during the calendar year, fueled by supply constraints due to the war in Ukraine





MOST ASSET CLASS RETURNS WERE CHALLENGED

WORST ANNUAL RETURNS: 60/40 PORTFOLIO

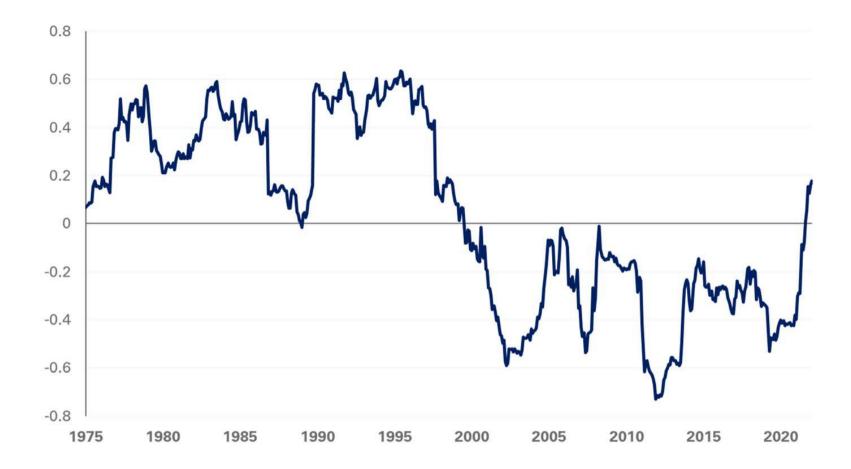


60/40 Portfolio represents 60% S&P 500 and 40% U.S. Aggregate Bonds (post 1975) and 40% Treasury (prior to 1974) Data calculated from 12/31/1936 Sources: S&P, Bloomberg, FactSet



ASSET CLASS CORRELATIONS SHIFTED

ROLLING CORRELATION BETWEEN THE S&P 500 AND TREASURIES

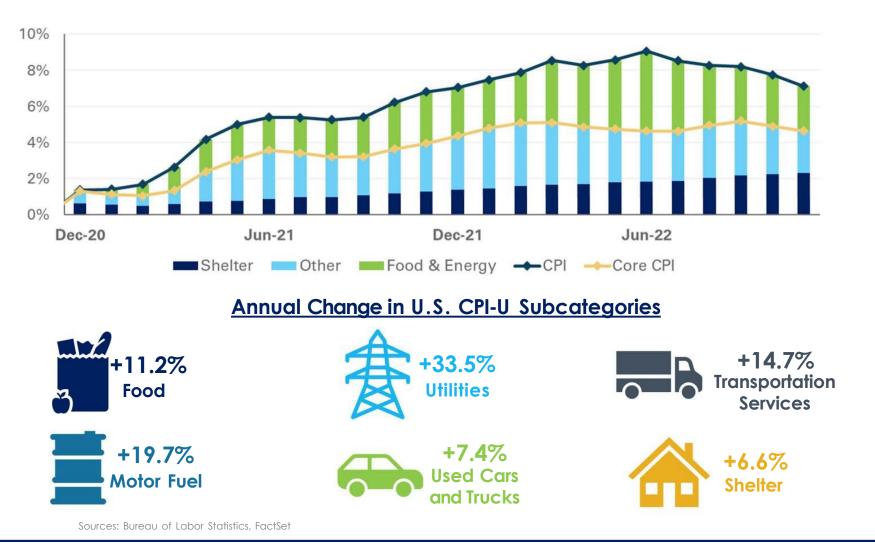




Correlations are calculated based on a rolling 3-year time horizon Source: S&P, Bloomberg, FactSet

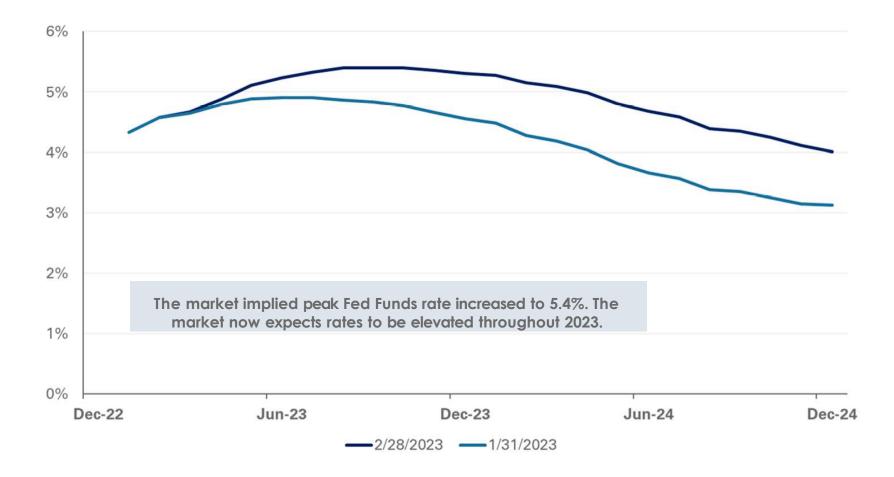
U.S. HEADLINE AND CORE CPI REMAIN ELEVATED

ANNUAL U.S. CPI-U CHANGES





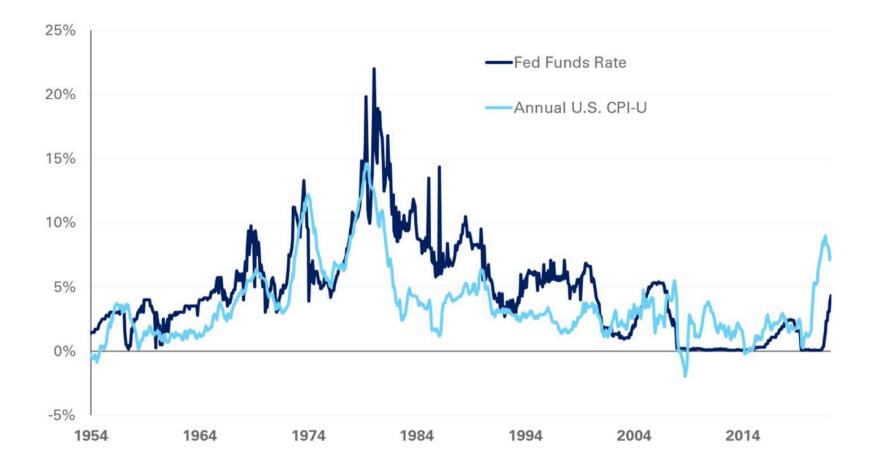
THE MARKET EXPECTS NO RATE CUTS IN 2023 FEDERAL FUNDS FUTURES





Source: FactSet

INFLATION AND FED FUNDS NEED TO CONVERGE HISTORICAL RELATIONSHIP BETWEEN FED FUNDS AND INFLATION





Sources: U.S. Department of Labor, Federal Reserve, FactSet

2023 KEY INVESTMENT THEMES

NEPC MARKET OUTLOOK







ASSET ALLOCATION UPDATE



REGIME SHIFTS CHALLENGE INVESTOR BIASES

NEPC MARKET OUTLOOK

Elevated Inflation and Monetary Policy	Central banks have transitioned from supporting investor sentiment and market liquidity to suppressing inflation as their primary policy objective
Interest Rate Super Cycle	The forty-year interest rate super cycle has ended, and capital markets are only beginning to reflect an environment of higher discount rates and an increased cost of capital
Portfolio Construction	Higher volatility in inflation and economic factors have increased stock-bond correlations and diversifying assets offer greater value to a portfolio relative to the last decade
Geopolitical Trends	New geopolitical trends in Europe and the Middle East are straining commodity markets and supply chains while inciting macro-economic stagflation trends



THE END OF THE INTEREST RATE SUPER CYCLE HIGHER DISCOUNT RATES HAVE A PROLONGED LAG EFFECT



- The transition to higher levels of interest rates continues to progress with the effects rippling from the public markets to consumer finance, real estate, private markets, and the overall cost of capital
 - The economic effect has yet to be felt as debt issuance and refinancings slow and weak balance sheets buckle from the pressure of higher interest rates



STRATEGIC ASSET ALLOCATION OUTLOOK

We have transitioned to an investment regime characterized by higher interest rates with **central banks focused on managing inflation not investor sentiment**

The **outlook for investment-grade bonds has improved** and is additive relative to existing strategic allocation targets for safe-haven fixed income exposure

Diversification and portfolio balance are critical and shifts in stock-bond correlation dynamics increase the relative benefit of diversifying asset classes

The **emergence of stagflationary trends** challenges the behavioral biases investors have been conditioned to expect over the last decade



ASSET ALLOCATION OVERVIEW

• The current strategic allocation is structured to utilize a diversified, total return approach

• At this time, we are not recommending changes to the strategic targets

	BPL Current Policy
US Large-Cap Equity	22.0%
US Small/Mid-Cap Equity	7.0%
Non-US Developed Equity	12.0%
Emerging Market Equity	7.0%
Global Equity	12.0%
Total Equity	60.0%
US TIPS	7.0%
US Treasury Bond	7.0%
US Aggregate Bond	10.0%
Global Multi-Sector Fixed Income	8.0%
Total Fixed Income	32.0%
PIMCO All Asset	8.0%
Total Multi Asset	8.0%

Within equities, the exposure is balanced geographically and across market capitalizations.

Within fixed income, the allocation is balanced across high-quality assets and yield seeking fixed income and has both domestic and global exposure.

12/31/22 Assumptions	
Expected Return (10 Years)	6.3%
Standard Deviation	12.0%
Sharpe Ratio (10 Years)	0.19

12/31/21 Assumptions	
Expected Return (10 Years)	4.6%
Standard Deviation	11.9%
Sharpe Ratio (10 Years)	0.17

The forward-looking return characteristics have improved from ast year since a year ago, as yields have shifted higher and equity valuations became more favorable in 2022



ADD SHORT-TERM INVESTMENT GRADE CREDIT

RATIONALE

IMPLEMENTATION VIEW

Short-Term IG Credit

Build exposure to short-term IG credit while sourcing from riskasset positions The opportunity for IG credit has improved as higher yields lift expected returns and our outlook for risk assets is more subdued

Public Credit Portfolio Tilt: Bloomberg U.S. 1-5 Yr Corporate

Opportunity Cost:

50% Bloomberg U.S. High Yield 50% MSCI ACWI Index

Elevated inflation levels and **tight monetary policy** support a **subdued outlook** for risk assets

Look to **build exposure to short-term investment grade credit** as elevated yields support our outlook relative to risk assets

The **ou** in add

The **outlook for investment-grade bonds has improved** and can be considered in addition to existing safe-haven fixed income exposure



IMPLEMENTATION

Fund	Vehicle / Ticker	Fee	Yield	Duration	Trailing 1 Year Returns	Trailing 3 Year Returns	Trailing 5 Year Returns
Vanguard Short-Term Corporate Bond Fund	Mutual Fund/ (VSTBX)	0.01%	5.21%	2.7	-3.4%	-0.9%	1.5%

- Given current yields, NEPC recommends the Boston Public Library establish a 3% position in Vanguard's Short Term Corporate Bond Fund mutual fund (VSTBX)
 - Proposal locks in attractive yields and takes risk off the table by reducing exposure to risk assets and moving the portfolio further up the capital stack
 - Full rebalance recommendation included on the following page



*All performance figures as of 2/28/2023

RECOMMEND REBALANCE FOR ANNUAL SPEND

Boston Public Library

set Allocation Rebalance Summ	ary						
iuary 31, 2023	Market Value	Current Weight	Toroct Woight	Quer/Under®	Recommendation	New Market Value	New Weigh
Composite	\$64,873,771	in Fund 88.9%	Target Weight	-9.5%	-\$3,872,953	\$61,000,818	100.0%
Total US Equity	\$20,044,356	30.9%	29.0 %	1 .9 %	-\$2,300,000	\$17,744,356	29 .1%
SSgA SRI S&P 500 Diamond Hill Large Cap Segall Bryant Small Cap	\$8,119,607 \$7,710,391 \$4,214,358	12.5% 11.9% 6.5%	11.0% 11.0% 7.0%	1.5% 0.9% -0.5%	-\$1,700,000 -\$600,000 \$0	\$6,419,607 \$7,110,391 \$4,214,358	10.5% 11.7% 6.9%
Total Non US Equity	\$12,831,161	1 9.8 %	1 9.0 %	-4.9 %	-\$1,300,000	\$11,531,161	18.9%
Earnest International Equity UBS Emerging Markets HALO	\$9,161,893 \$3,669,268	14.1% 5.7%	12.0% 7.0%	2.1% -1.3%	- \$1,600,000 \$300,000	\$7,561,893 \$3,969,268	12.4% 6.5%
Total Global Equity	\$7,204,027	11.1%	12.0%	-4.7%	\$0	\$7,204,027	11.8%
Impax	\$7,204,027	11.1%	12.0%	-0.9%	\$O	\$7,204,027	11.8%
Total Fixed Income	\$19,510,694	30 .1%	32.0%	-1.9%	\$200,000	\$19,710,694	32.3%
IRM Care Bond SSgA TIPS SSgA Treasury Manulife Vanguard Short Corporate (VSTBX)	\$5,383,733 \$3,860,914 \$5,557,981 \$4,708,066 \$0	8.3% 6.0% 8.6% 7.3% 0.0%	10.0% 7.0% 8.0% 0.0%	-1.7% -1.0% 1.6% -0.7% 0.0%	\$0 \$0 -\$400,000 -\$1,200,000 \$1,800,000	\$5,383,733 \$3,860,914 \$5,157,981 \$3,508,066 \$1,800,000	8.8% 6.3% 8.5% 5.8% 3.0%
Total Multi Asset	\$5,283,533	8. 1%	8.0%	0.1%	-\$472,953	\$4,810,580	7.9 %
PIMCO All Asset	\$5,283,533	8.1%	8.0%	0.1%	-\$472,953	\$4,810,580	7.9%



CORE ASSET CLASS RETURN ASSUMPTIONS

	Asset Class	12/31/22 10-Year Return	12/31/21 10-Year Return	Delta
	Cash	4.0%	1.5%	+2.5%
	U.S. Inflation	2.5%	2.4%	+0.1%
	U.S. Large-Cap Equity	5.4%	4.3%	+1.1%
	Non-U.S. Developed Equity	5.6%	5.2%	+0.4%
Equity	Emerging Market Equity	9.6%	8.3%	+1.3%
	Global Equity*	6.3%	5.4%	+0.9%
	Private Equity*	9.2%	9.0%	+0.2%
	US Treasury Bond	4.2%	1.5%	+2.7%
	US Municipal Bond	4.4%	1.6%	+2.8%
Fixed	US Aggregate Bond*	4.8%	2.0%	+2.8%
Income	US TIPS	4.4%	1.4%	+3.0%
	US High Yield Corporate Bond	7.1%	3.2%	+3.9%
	Private Debt*	8.8%	6.6%	+2.2%
	Commodity Futures	4.2%	0.4%	+3.8%
Deal	REIT	6.2%	4.5%	+1.7%
Real Assets	Gold	5.1%	3.3%	+1.8%
A35613	Real Estate - Core	4.0%	4.7%	-0.7%
	Private Real Assets - Infrastructure	6.6%	5.3%	+1.3%
Multi-	60% S&P 500 & 40% U.S. Aggregate	5.4%	3.7%	+1.7%
Asset	60% MSCI ACWI & 40% U.S. Agg.	6.0%	4.4%	+1.6%
	Hedge Fund*	6.5%	4.2%	+2.3%



*Calculated as a blend of other asset classes



APPENDIX

PROPRIETARY & CONFIDENTIAL 24

INFLATION ASSUMPTIONS

OVERVIEW

- Inflation is a key building block to develop asset class assumptions
- Inflation assumptions are model-driven and informed by multiple inputs for both the U.S. and global assets
 - Includes forecasts from international organizations (e.g. IMF), local consumer and producer price indices, global interest rate curves, and break-even inflation expectations
- NEPC's U.S. inflation expectations reflect stickier inflation over the near-term, but a stable inflation outlook over the long-term
 - We anticipate continued volatility among inflation measures as market-based inflation expectations diverge from current consumer inflation metrics

Region	10-Year Inflation Assumption	30-Year Inflation Assumption
United States	2.5%	2.6%



INFORMATION DISCLAIMER

Past performance is no guarantee of future results.

The goal of this report is to provide a basis for monitoring financial markets. The opinions presented herein represent the good faith views of NEPC as of the date of this report and are subject to change at any time.

Information on market indices was provided by sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.

All investments carry some level of risk. Diversification and other asset allocation techniques do not ensure profit or protect against losses.

This report is provided as a management aid for the client's internal use only. This report may contain confidential or proprietary information and may not be copied or redistributed to any party not legally entitled to receive it.



NEPC PORTFOLIO AND ASSET ALLOCATION OVERVIEW

A. Vote to Rebalance the Annual Spend (Pending Discussion)

VOTED: "that, the Trustees Finance and Audit Committee of the Public Library of the City of Boston vote to rebalance the annual spend based on the recommendations presented and discussed with NEPC."



DISCUSSION & REVIEW OF CONTRACTS

Ellen Donaghey, Chief Financial Officer

A. Vote to approve Camera purchase

VOTED: "that, the Trustees Finance and Audit Committee of the Public Library of the City of Boston approve the purchase of the Phase One iXH 150MP - 72MM (MKII) camera from The Digital Transitions, Inc. of 35 West 35th Street 10th floor, New York, NY 10001 in the amount of Sevent-Six Thousand one hundred ninety dollars and zero cents (\$76,190.00) with funding from the Library for the Commonwealth."



New Business

BOSTON PUBLIC LIBRARY



Evelyn Arana Ortiz, Committee Chair

Presentation of the Draft Tax Returns (IRS Form 990)

BOSTON PUBLIC LIBRARY



Ellen Donaghey, Chief Financial Officer

Public Comment

BOSTON PUBLIC LIBRARY



- People will be chosen in the order they were received and allowed 2 minutes to speak.
- The Moderator will unmute your mic when you are called on.
- Comments made in chat during meeting will not be acknowledged.
- If follow up is required, please send your contact email or phone number to the Clerk of the Board at <u>pcarver@bpl.org</u>

BOSTON PUBLIC LIBRARY



Adjournment

*Committee Meeting Schedule

• May 16, 2023, at 8:30 a.m.

(Date, time, and location are subject to change- will be posted to the BPL website/Trustees page)