

November 8, 2024

MEMORANDUM

TO: VRS Board of Trustees

FROM: Patricia S. Bishop

Director

RE: Agenda Materials for November 14th Board Meeting

We are looking forward to the November 14th Board meeting beginning at 1:00 p.m. in the VRS Boardroom (Chesapeake conference room) located at 1111 East Main Street, Bank of America - Pavilion Building, 3rd floor. Enclosed are the agenda and meeting materials. Boxed lunches will be available beginning at 12:00 p.m.

Listed below is a recap of the meetings scheduled for next week:

Meeting	Date	Location
Benefits and Actuarial	Thursday, November 14th,	Bank of America Pavilion, 1111 E.
Committee	10:00 a.m.	Main St., 3 rd floor, Chesapeake
		Conference Room
Board of Trustees	Thursday, November 14th,	Bank of America Pavilion, 1111 E.
	1:00 p.m.	Main St., 3 rd floor, Chesapeake
		Conference Room

Again, we look forward to seeing you next week. If you have any questions, please feel free to contact me.

Attachments

cc: The Honorable Stephen E. Cummings, Secretary of Finance

Michael Jay, House Appropriations Committee

April Kees, Senate Finance Committee

Mike Tweedy, Senate Finance Committee

Zack Borgerding, Auditor of Public of Accounts

Jon Howe, Department of Planning and Budget

Dean Lynch, VA Association of Counties

Katie Boyle, VA Association of Counties

Bea Snidow, VA Education Association

Kimberly Sarte, Joint Legislative Audit & Review Commission

Hal Greer, Joint Legislative Audit & Review Commission

Elizabeth B. Myers, Office of the Attorney General

Josette Bulova, VA Municipal League

Lawrence Kochard, VRS Investment Advisory Committee

Bonnie Atwood, VA Retired Teachers Association



Board of Trustees Meeting VRS, 1111 E. Main St., 3rd Floor Board Room Thursday, 11/14/2024 1:00 - 3:30 PM ET

I. Approve Minutes

• October 17, 2024

10.17.24 Board Minutes - Page 4

II. Report of the Investment Advisory Committee

III. Report of the Chief Investment Officer

CIO Report - November 2024 - Page 8

CIO Quarterly Report - QE September 2024 - Page 15

Performance Summary 9-30-2024 - Page 24

Asset Allocation Report - September 2024 - Page 25

Daily Asset Allocation Report - 11-07-2024 - Page 26

New Investments and Terminations 11-14-2024 - Page 27

Global Equity Benchmarks - Page 28

• RBA - Approve Policy Related to Certain Foreign Investments

RBA - Approve Policy Related to Certain Foreign Investments - Page 49

IV. CEM Cost Effective Analysis of VRS Investment Program

CEM Presentation - Investments - Page 51

V. Report of the Benefits and Actuarial Committee

Report of the B&A Committee - Page 68

• RBA -

Accept the Plan Actuary's Valuations as of June 30, 2024, for the Political Subdivision Retirement Plans; the Health Insurance Credit (HIC) Plans for Political Subdivisions; the State-Funded HIC for Constitutional Officers, Social Services Employees, and registrars; the Virginia Sickness and Disability Program, including the Self-Funded Long-Term Care; the Virginia Local Disability Program, including the Self-Funded Long-Term Care, and the Line of Duty Act Fund

RBA - Accept Local Plan Valuations - Page 70

GRS Actuarial Valuation Results_Board - Page 71

LODA Presentation Final - Page 107

VI. Corporate Governance Report

Corporate Governance Report FY2024 - Page 136

Exhibit 1 - Proxy Voting Policy - February 2024 - Page 139

Exhibit 2 - Litigation Policy - February 2024 - Page 141

Exhibit 3 - 2024 Global Board Aligned US Voting Guidelines - Page 148

Exhibit 4 - Managers Not Using VRS Selected ISS Policy - FY2024 - Page 214

Exhibit 5 - VRS Appointed Law Firms Providing Class Action Services - Page 215

VII. Report of the Director

FY 2025 Agency Roadmap Update - October - Page 216

Director's Report - Page 218



Minutes

A regular meeting of the Virginia Retirement System Board of Trustees was held on October 17, 2024, in Richmond, Virginia with the following members participating:

Board members:

A. Scott Andrews, Chair Michael P. Disharoon, Vice Chair Hon. J. Brandon Bell, II John M. Bennett Lawrence A. Bernert, III Susan T. Gooden, Ph.D. Jessica L. Hood Del. Matthew James Lindsey K. Pantele

VRS Staff:

Patricia Bishop, Jennifer Schreck, Andrew Junkin, Nikolai Abaev, Stephen Adelaar, Rory Badura, Daniel Ball, Parham Behrooz, Matt Bennett, Valerie Brown, Lee Buchanan, Jessica Budd, Caroline Cardwell, Jeanne Chenault, Michael Cooper, Perry Corsello, David Cotter, Sara Denson, Laurie Fennell, Laura Fields, Antonio Fisher, Kenneth Fleming, JT Grier, Katie Growe, Mehtab Haleem, KC Howell, Robert Irving, Sandy Jack, Ross Kasarda, LaShaunda King, Kristina Koutrakos, Matt Lacy, Vu Le, Chung Ma, Walker Noland, Greg Oliff, Laura Pugliese, Paula Reid, Mark Rein, Jummai Sarki-Hurd, Dan Schlussler, Michael Scott, Emily Trent, Korey Turner, Leslie Weldon, Daniel Whitlock and Steve Woodall.

Guests:

Muskan Arora, Markets Group; Amruta Liz Binoy, Department of Planning and Budget; Jim Anderson, Kurt Dosson and Becky Stouffer, Gabriel, Roeder, Smith & Company; Kevin Balaod, With Intelligence; Mitchell King, Blackrock; Elizabeth Myers, Office of the Attorney General; Erin Shell, Virginia Auditor of Public Accounts; Katherine Smith, Financial Times; and Bea Snidow, Virginia Education Association.

The meeting convened at 1:00 p.m.

Opening Remarks

Mr. Andrews called the meeting to order and welcomed everyone to the October 17, 2024, meeting of the Virginia Retirement System Board of Trustees.

Approval of Minutes

Following a motion by Ms. Pantele, and a second by Senator Bell, the VRS Board of Trustees unanimously approved the minutes from its September 19, 2024, meeting.



Board of Trustees Meeting Minutes October 17, 2024 Page 2 of 4

Report of the Chief Investment Officer

Andrew Junkin, Chief Investment Officer, began his report with a market overview and discussed asset allocation, total fund portfolio and tracking error, concluding that risk measures are within Boardapproved levels.

Next, Mr. Junkin discussed the New Investment and Terminations report, the Diverse Investment Manager Engagement (DIME) report and the External Investment Manager Referral report.

Mr. Andrews thanked Mr. Junkin for his report.

Report of the Benefits and Actuarial Committee

The Benefits and Actuarial Committee met on October 16, 2024, and took up the following matters:

APPROVAL OF MINUTES

The Committee approved the minutes of its June 12, 2024, meeting.

GABRIEL, ROEDER, SMITH & COMPANY (GRS) 2024 ACTUARIAL VALUATION RESULTS FOR FIVE STATEWIDE RETIREMENT PLANS, GROUP LIFE INSURANCE, STATE AND TEACHER RETIREE HEALTH INSURANCE CREDIT, AND VIRGINIA SICKNESS AND DISABILITY PROGRAM (INCLUDES SELF-FUNDED LONG-TERM CARE).

Jim Anderson, Becky Stouffer and Kurt Dosson from the VRS plan actuary, Gabriel, Roeder, Smith & Company (GRS), presented the June 30, 2024, actuarial valuations for the Five Statewide Retirement Plans, Group Life Insurance, the State and Teacher Health Insurance Credit and the Virginia Sickness and Disability Program (VSDP). The VRS actuary conducts annual valuations as of the close of the fiscal year (June 30). In odd-numbered years, the valuations are used to establish employer contribution rates. The results in even-numbered years are shared with the Board of Trustees to inform the Board of any emerging trends or indications of the magnitude and direction of contribution rates.

The market value return for the total fund of 9.9% exceeded the long-term assumed rate of return of 6.75% for fiscal year 2024. The investment gains were nearly offset by higher-than-expected cost-of-living increases and salary increases provided during the fiscal year.

The funded status continues to trend upwards for all plans, although, the state-wide health insurance credit plans are still well below healthy funded status levels.

The informational contribution rates trended lower for all plans with the exception of SPORS and VaLORS which increased slightly from the last rate-setting valuation. VaLORS had a decrease in active headcount which led to a smaller payroll over which to spread costs which contributed to the higher employer rate. The SPORS rate was relatively flat year over year. The rates generally trended lower for the other post-employment benefits (OPEB) plans due to favorable demographic experience to go along with the investment gains. In addition, the HIC State plan received a cash infusion to help pay down unfunded liabilities.





The Quadrennial Experience Study will take place in Spring 2025, and any updated assumptions will be presented for the next rate-setting valuation.

GRS delivered an abbreviated version of their presentation to the full Board of Trustees.

RBA: Accept the Plan Actuary's Valuations as of June 30, 2024, for the Five Statewide Retirement Plans, Group Life Insurance, Health Insurance Credit Plans for State and Teachers, and the Virginia Sickness and Disability Program

Upon a motion by Mr. Bennett, with a second by Mr. Disharoon, the VRS Board of Trustees approved the following action:

Request for Board Action 2024-10-30: The Virginia Retirement System Board of Trustees accepts the June 30, 2024, Actuarial Valuations conducted by the VRS plan actuary, Gabriel, Roeder, Smith & Company, for the Five Statewide Retirement Plans, Group Life Insurance, the Health Insurance Credit Plans for both State and Teachers, and the Virginia Sickness and Disability Program.

INFORMATION ITEM

Upcoming B&A Committee Meeting:

The Committee will meet on November 14, 2024, at 10:00 a.m. to receive the valuations for the political subdivision plans, Virginia Local Disability Plan, and the Line of Duty Act fund.

Mr. Andrews thanked Mr. Bennett for the report. Mr. Andrews next thanked GRS and the VRS staff actuaries for their hard work in developing, validating and delivering the results.

Revised Board Governance Policy and Committee Charters (2nd Review)

Sandy Jack, Director of Policy, Planning and Compliance, reviewed the proposed changes to the Board Governance Policy and Committee charters. Ms. Jack explained the rationale for the revisions, noting that the documents were last reviewed comprehensively in 2017. Ms. Jack advised the Board that this is the second review of the charters, which is required before action can be taken.

Upon a motion by Dr. Gooden, with a second by Senator Bell, the VRS Board of Trustees approved the following action:

RBA: Amend the Board of Trustees Governance Policy and Committee Charters

Request for Board Action 2024-10-31: The VRS Board of Trustees approves amendments to the Board's Governance Policy and to the charters for each of the Board's standing committees and advisory committees.

Mr. Andrews thanked Ms. Jack for her report.

Report of the Director

Trish Bishop, VRS Director, began her report with a review of the FY 2025 VRS Project Portfolio and New Coverage Elections.



Board of Trustees Meeting Minutes October 17, 2024 Page 4 of 4

Ms. Bishop informed the Board that VRS moved from the 42nd to the 36th largest public pension system in the world.

Next, Ms. Bishop updated the Board on recent VRS presentations provided at the Virginia Retired Teachers Association Fall Conference on October 1, 2024, and the Virginia Governmental Employees Association (VGEA) Annual Meeting on September 14, 2024.

Ms. Bishop announced the agency's annual meeting will be held on Tuesday, December 17, 2024, with more information to follow.

Ms. Bishop presented an overview of Actuarial Measures and Key Indicators for fiscal year 2025. The overview included a comparison of the actual fund market value vs the expected for FY 2025; a comparison of pension cash flows for first quarter of fiscal year compared to prior year as well as the average increase in CPI year to date.

Lastly, Ms. Bishop advised the Board of upcoming committee and board meeting dates.

Mr. Andrews thanked Ms. Bishop for her report.

Other Business

Mr. Andrews reviewed the following meeting schedule:

- Investment Advisory Committee November 6 at 9:00 a.m.
- Benefits and Actuarial Committee November 14 at 10:00 a.m.
- Board of Trustees November 14 at 1:00 p.m.

Adjournment

There being no further business and following a motion by Mr. Disharoon, with a second by Senato	or Bell,
the VRS Board of Trustees agreed to adjourn the meeting at 2:00 p.m.	

Chair	Secretary







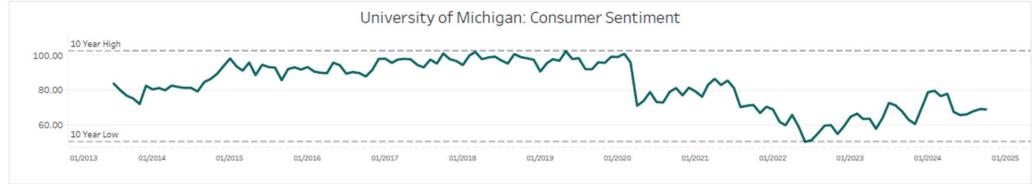


Chief Investment Officer Report

Market Review – November 2024 Andrew Junkin

Consumer Activity

Effective Date To 10/31/2024 12:00:00 A..



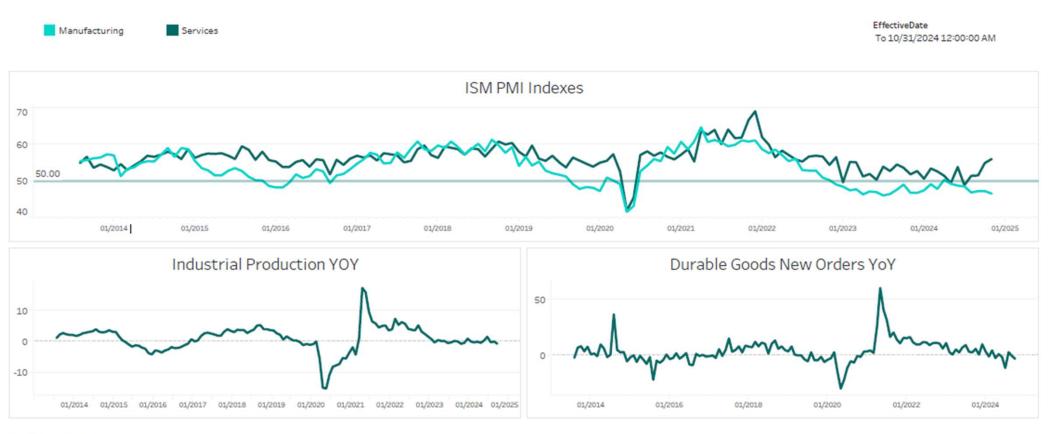




Data Source: Bloomberg



Business Activity



Data Source: Bloomberg



Risk Monitor

EffectiveDate
To 11/6/2024 12:00:00 AM



Data Source: Bloomberg

01/1997

01/2002

01/2007

01/2012

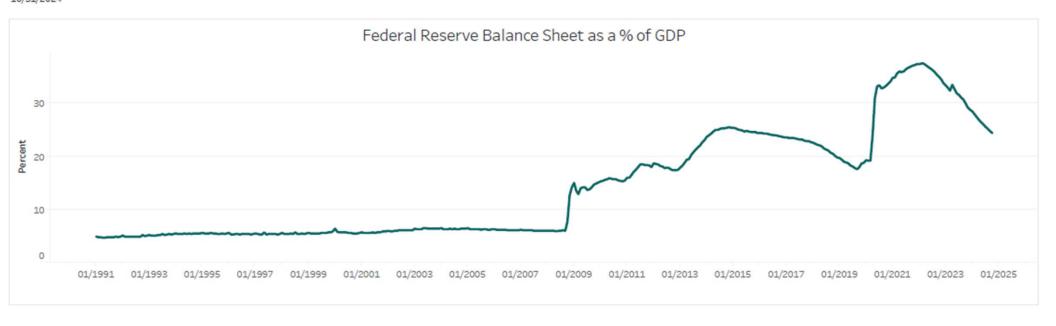
01/2017

01/2022



Federal Reserve

End Date 10/31/2024



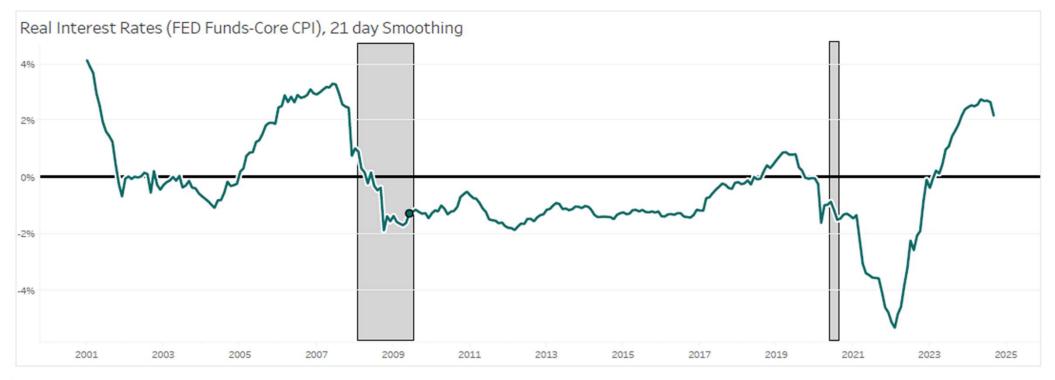
Data Source: Bloomberg



Higher Real Cost of Money

Effective Date

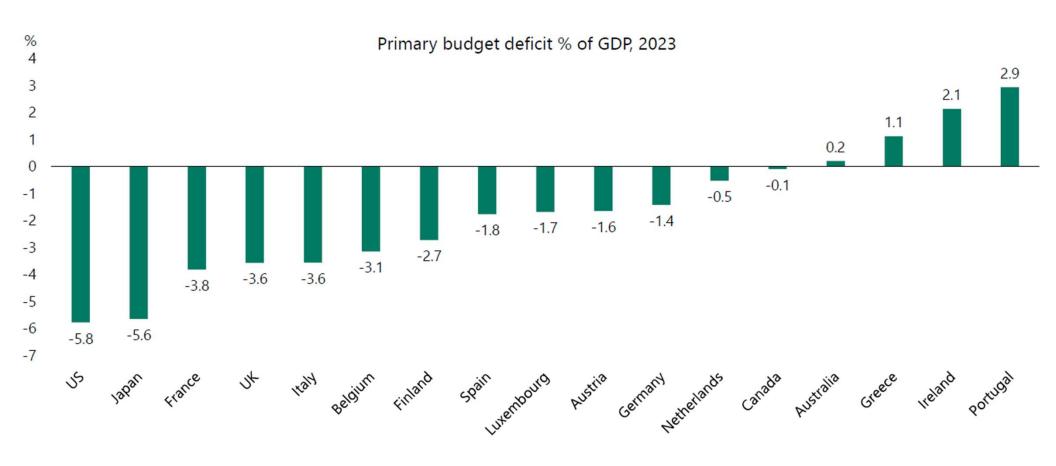
To 10/31/2024 12:00:00 AM



Data Source: Bloomberg



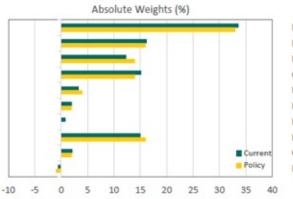
The US has the largest primary budget deficit



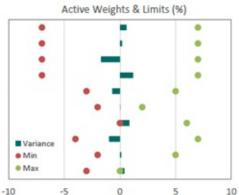
Note: Primary budget deficit = budget deficit excluding interest payments. Source: IMF, Apollo Chief Economist



Asset Allocation - September 30, 2024







-0.8

18

12

27

n.a.

Tracking	Error (%)
5Yr Fund	2.4
5Yr Public	1.7

		Weights (%)									
Asset Class	Billions (\$)	Current	Policy	Variance	Min	Max	Interna				
Public Equity	39.4	33.6	33.0	0.6	26	40	51				
Private Equity	19.0	16.2	16.0	0.2	9	23	12				
Real Assets	14.4	12.3	14.0	-1.7	7	21	17				
Credit Strategies	17.8	15.2	14.0	1.2	7	21	4				
Diversifying Strategies	3.9	3.3	4.0	-0.7	1	9	0				
Private Investment Partnerships (PIP)	2.4	2.0	2.0	0.0	0	4	0				
Exposure Management Portfolio (EMP)	1.0	0.8	0.0	0.8	0	6	0				
Fixed Income	17.6	15.0	16.0	-1.0	12	23	95				
Cash	2.5	2.1	2.0	0.1	0	7	0				
Leverage	-0.7	-0.6	-1.0	0.4	-3	0	0				
Total Fund (Net Market Value)	117.2	100.0	100.0	0.0	n.a.	n.a.	36				
Total Fund (Gross Market Value)	117.9	100.6	101.0	-0.4	n.a.	n.a.	0				
Exposures by Policy Groups											
Public + Private Equity	58.3	49.8	49	0.8	39	59	n.a.				

Total Fund includes the following amount held by the Treasurer of VA: \$366 million

Fixed Income + Cash

The values shown for each asset class on this report may reflect adjustments related to derivative positions in the Rebalance Account, pending transactions and certain accruals, in order to provide a more descriptive representation of the true economic exposure to each asset class (0 adjustments applied)

17.2

The VRS Defined Benefit Plan Investment Policy Statement established the total fund tracking error range as the allowable observed tracking error calculated quarterly using 5 years of history as of 9/30/2024.

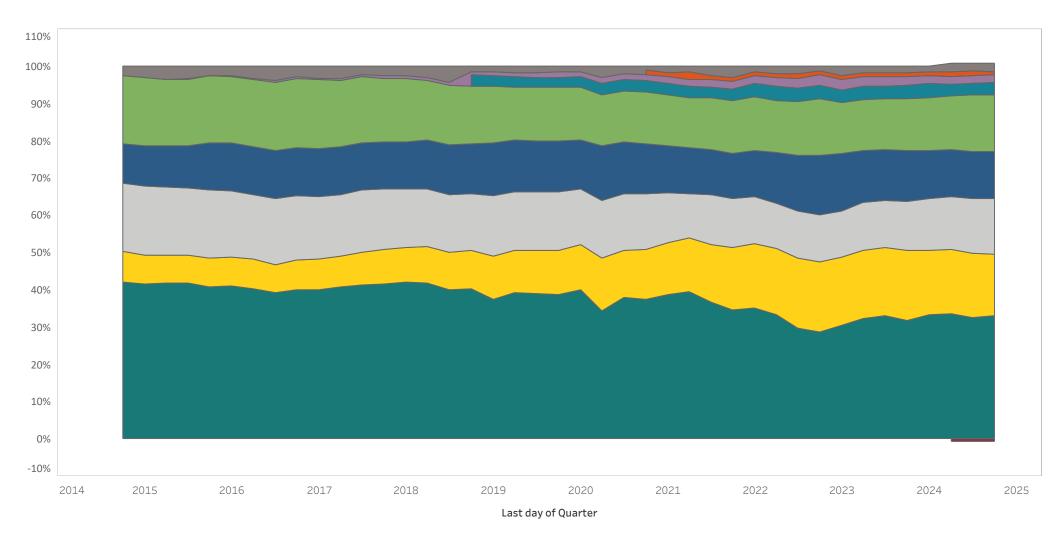
20.1

Differences in totals are due to rounding



Asset Allocation Rolling 10-Year





As of September 30, 2024



Performance - September 30, 2024

	Fees)	

							Fiscal	Cal	Market Value
	10 Yr	5 Yr	3 Yr	1 Yr	Qtr	Month	YTD	YTD	(\$MM)
Total Public Equity	9.4	12.0	8.2	31.3	6.6	1.8	6.6	18.6	39,351
Benchmark	9.5	12.1	7.8	31.1	7.4	2.0	7.4	17.9	
Total Private Equity	13.8	14.9	6.2	4.1	0.5	0.4	0.5	4.4	18,954
Benchmark	11.2	12.0	5.5	20.2	2.6	1.8	2.6	24.4	
Total Real Assets	8.0	5.8	5.3	-1.7	0.7	0.5	0.7	-1.8	14,425
Benchmark	5.9	3.5	2.3	-4.5	0.1	0.0	0.1	-3.8	
Total Credit Strategies	6.4	7.7	6.3	11.1	2.6	1.8	2.6	7.8	17,780
Benchmark	5.3	5.4	4.9	12.2	3.2	0.9	3.2	6.8	
Total Diversifying Strategies	n/a	5.4	3.9	8.4	-0.3	0.5	-0.3	5.2	3,893
Benchmark	n/a	5.5	3.1	11.5	2.0	0.6	2.0	5.9	
Total Private Investment Partnerships	n/a	9.5	7.3	8.9	2.3	1.2	2.3	6.8	2,365
Benchmark	n/a	7.5	4.8	8.6	1.9	0.9	1.9	8.3	
Total Fixed Income	2.8	1.6	-0.7	12.6	5.4	1.4	5.4	5.3	17,623
Benchmark	2.0	0.5	-1.1	12.1	5.2	1.4	5.2	4.8	
Total Fund	8.0	9.1	5.8	14.0	3.5	1.3	3.5	8.7	117,169
VRS Custom Benchmark	7.2	7.8	4.9	16.9	4.3	1.3	4.3	11.2	

Effective July 2013, the VRS Custom Benchmark is a blend of the Asset Class Benchmarks at policy weights.

Effective January 2024, the Total Fund includes leverage.

The VRS Cash Account, the Treasurer Short-Term Investment Account, the VRS Rebalancing Account, transition activity and accounts with market values of less than \$1 million are included in the Total Fund's market value. Differences in market value totals are due to rounding.

The Performance Report may differ from the VRS Annual Comprehensive Financial Report (ACFR) due to each report's requirements and objectives.

Leverage Cost Measurement Information

(Information provided for purposes of monitoring the cost effectiveness of leverage implementation.)

	10 Yr	5 Yr	3 Yr	1 Yr	Qtr	Month	Fiscal YTD	YTD	Market Value (\$MM)
Leverage Benchmark	n/a n/a	n/a n/a	n/a n/a	n/a n/a	1.5 1.5	0.4	1.5 1.5	n/a n/a	(703)

Effective January 2024, the Leverage Custom Benchmark is the Secured Overnight Financing Rate (SOFR) plus 50 basis points per annum.



Performance Attribution

Fiscal Year-To-Date, ending September 30, 2024

	Portfolio		Pol	су	Attribution			
	Weight	Return	Weight	Return	Allocation	Selection	Total	
TOTAL	100.0	3.5	100.0	4.3	0.0	-0.7	-0.8	
Public Equity	33.2	6.6	33.0	7.5	0.0	-0.3	-0.3	
Private Equity	16.7	0.5	16.0	2.6	0.0	-0.4	-0.4	
Real Assets	12.4	0.7	14.0	0.1	0.1	0.1	0.1	
Credit Strategies	15.0	2.6	14.0	3.2	0.0	-0.1	-0.1	
Diversifying Strategies	3.3	-0.3	4.0	2.0	0.0	-0.1	-0.1	
Private Investment Partnerships	2.1	2.3	2.0	1.9	0.0	0.0	0.0	
Exposure Management Portfolio	0.9	-3.2	0.0		-0.1	0.0	-0.1	
Fixed Income	14.9	5.4	16.0	5.2	0.0	0.0	0.0	
Cash	1.2	0.7	2.0	1.4	0.0	0.0	0.0	
Other	0.9	2.4			0.0	0.0	0.0	
Leverage	-0.6	1.6	-1.0	1.5	0.0	0.0	0.0	

Differences in totals are due to rounding.

In return attribution, **allocation** refers to the value added by having different asset class weights in the portfolio than the asset class weights in the benchmark. **Selection** refers to the value added by holding individual securities or instruments within the asset class in different than benchmark weights.



Total Fund Rolling 5-Year



The VRS Defined Benefit Plan Investment Policy Statement established the total fund tracking error range as the allowable observed tracking error calculated quarterly using 5 years of history.



Projected Volatility and Risk Contribution - June 30, 2024

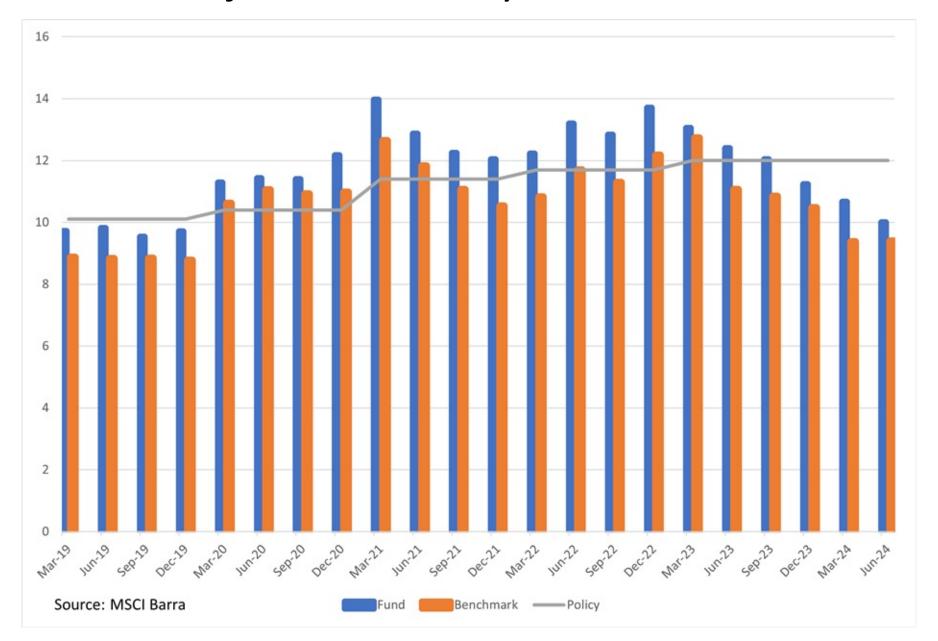


	Marke	t Value	Volatility (%)		
Asset Class	Billions (\$)	Weight (%)	Projected	Contribution	
Public Equity	37.6	33.0	14.3	45.0	
Private Equity	19.4	17.0	20.0	30.5	
Real Assets	14.1	12.4	10.8	10.8	
Credit Strategies	17.2	15.1	5.6	6.7	
Diversifying Strategies	3.6	3.2	4.2	0.2	
Private Investment Partnership (PIP)	2.5	2.2	14.7	3.0	
Exposure Management Portfolio (EMP)	1.2	1.1	16.3	0.5	
Fixed Income	16.7	14.7	6.6	3.3	
Cash	2.3	2.0	1.6	0.0	
Leverage	-0.7	-0.6	0.0	0.0	
Total Fund (Net Market Value)	113.9	100.0	10.0	100.0	

Source: BNY Mellon, MSCI Barra

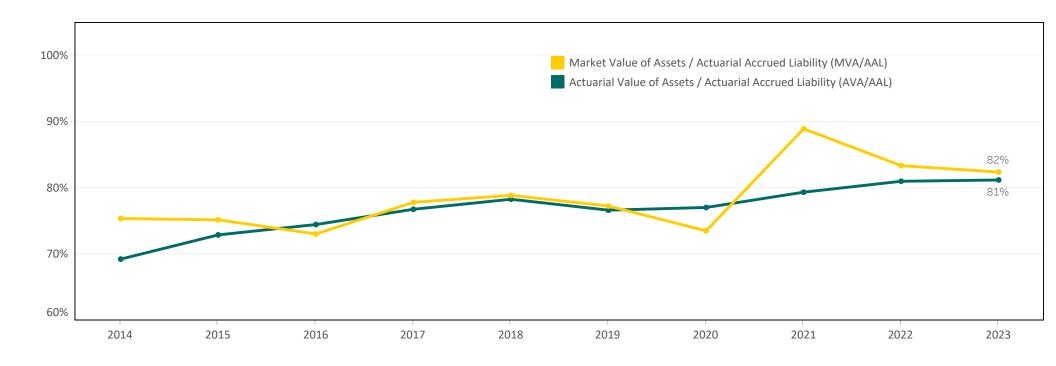


VRS Fund Projected Volatility - June 30, 2024





Funded Status - Assets/Liabilities



As of end of fiscal year.

Market Value of Assets (MVA) - The value at which assets could be traded on the market.

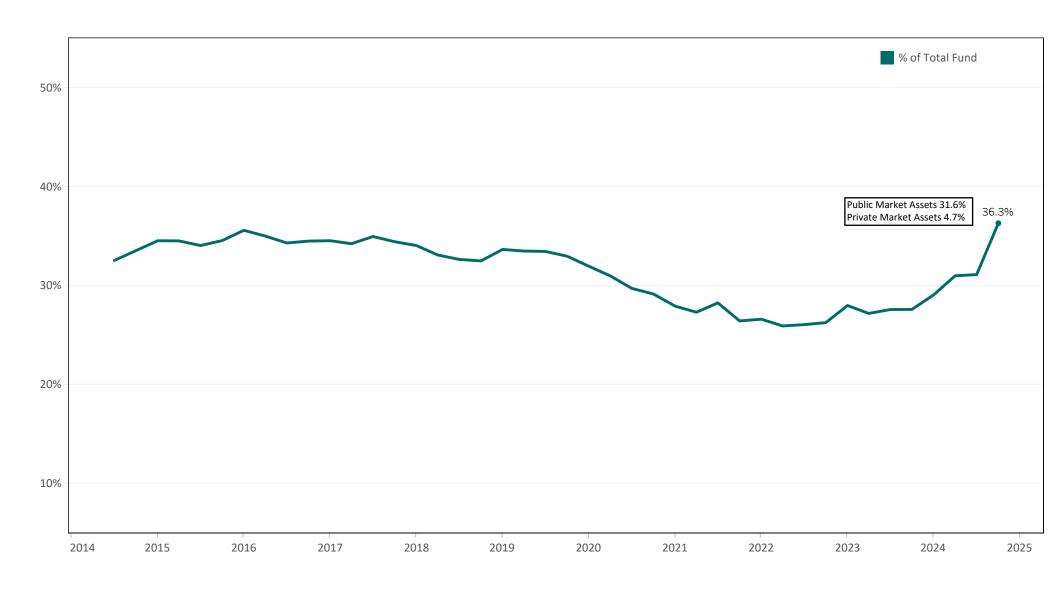
Actuarial Value of Assets (AVA) - VRS generally uses a smoothed value of assets for actuarial value. The smoothed value phases-in investment gains and losses over a five year period to reduce volatility.

Actuarial Accrued Liability (AAL) - represents the portion of the Present Value of Future Projected Benefits attributable to service earned (or accrued) as of the valuation date.

Funded Status - The ratio of a plan's current assets to the actuarial accrued liability (AAL). In financial reporting of public pension plans, funded status is reported using the MVA and the liabilities as of the reporting date. When referring to funding of the plan, the funded status equals the actuarial value of assets divided by the actuarial accrued liability as of the valuation date.



Internally Managed Assets



As of 9/30/24, the percentage includes both internally managed Public Market Assets and Private Market Assets where VRS has full discretion.





TOTAL FUND PERFORMANCE

(Net of Fees)

	10 Yr	5 Yr	3 Yr	1 Yr	Qtr	Month	Fiscal YTD	Cal YTD	Market Value (\$MM)
Total Public Equity	9.4	12.0	8.2	31.3	6.6	1.8	6.6	18.6	39,351
Benchmark	9.5	12.1	7.8	31.1	7.4	2.0	7.4	17.9	
Total Private Equity	13.8	14.9	6.2	4.1	0.5	0.4	0.5	4.4	18,954
Benchmark	11.2	12.0	5.5	20.2	2.6	1.8	2.6	24.4	
Total Real Assets	8.0	5.8	5.3	-1.7	0.7	0.5	0.7	-1.8	14,425
Benchmark	5.9	3.5	2.3	-4.5	0.1	0.0	0.1	-3.8	
Total Credit Strategies	6.4	7.7	6.3	11.1	2.6	1.8	2.6	7.8	17,780
Benchmark	5.3	5.4	4.9	12.2	3.2	0.9	3.2	6.8	
Total Diversifying Strategies	n/a	5.4	3.9	8.4	-0.3	0.5	-0.3	5.2	3,893
Benchmark	n/a	5.5	3.1	11.5	2.0	0.6	2.0	5.9	
Total Private Investment Partnerships	n/a	9.5	7.3	8.9	2.3	1.2	2.3	6.8	2,365
Benchmark	n/a	7.5	4.8	8.6	1.9	0.9	1.9	8.3	
Total Fixed Income	2.8	1.6	-0.7	12.6	5.4	1.4	5.4	5.3	17,623
Benchmark	2.0	0.5	-1.1	12.1	5.2	1.4	5.2	4.8	
Total Fund	8.0	9.1	5.8	14.0	3.5	1.3	3.5	8.7	117,169
VRS Custom Benchmark	7.2	7.8	4.9	16.9	4.3	1.3	4.3	11.2	

Effective July 2013, the VRS Custom Benchmark is a blend of the Asset Class Benchmarks at policy weights.

Effective January 2024, the Total Fund includes leverage.

The VRS Cash Account, the Treasurer Short-Term Investment Account, the VRS Rebalancing Account, transition activity and accounts with market values of less than \$1 million are included in the Total Fund's market value. Differences in market value totals are due to rounding.

The Performance Report may differ from the VRS Annual Comprehensive Financial Report (ACFR) due to each report's requirements and objectives.

Leverage Cost Measurement Information

(Information provided for purposes of monitoring the cost effectiveness of leverage implementation.)

	10 Yr	5 Yr	3 Yr	1 Yr	Qtr	Month	Fiscal YTD	Cal YTD	Market Value (\$MM)
Leverage	n/a	n/a	n/a	n/a	1.5	0.4	1.5	n/a	(703)
Benchmark	n/a	n/a	n/a	n/a	1.5	0.5	1.5	n/a	` '

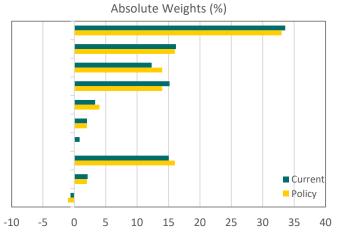
Effective January 2024, the Leverage Custom Benchmark is the Secured Overnight Financing Rate (SOFR) plus 50 basis points per annum.

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Asset Allocation Report

September 30, 2024



Public Equity
Private Equity
Real Assets
Credit Strategies
Diversifying Strategies
PIP
EMP
Fixed Income
Cash
Leverage



Tracking Error (%)

5Yr Fund 2.4

5Yr Public 1.7

		Weights (%)					
Asset Class	Billions (\$)	Current	Policy	Variance	Min	Max	Internal
Public Equity	39.4	33.6	33.0	0.6	26	40	51
Private Equity	19.0 16.2 16.0 0.2 9				9	23	12
Real Assets	ssets 14.4				7	21	17
Credit Strategies	17.8	15.2	14.0	1.2	7	21	4
Diversifying Strategies	3.9	3.3	4.0	-0.7	1	9	0
Private Investment Partnerships (PIP)	2.4	2.0	2.0	0.0	0	4	0
Exposure Management Portfolio (EMP)	1.0	0.8	0.0	0.8	0	6	0
Fixed Income	17.6	15.0	16.0	-1.0	12	23	95
Cash	2.5	2.1	2.0	0.1	0	7	0
Leverage	-0.7	-0.6	-1.0	0.4	-3	0	0
Total Fund (Net Market Value)	117.2	100.0	100.0	0.0	n.a.	n.a.	36
Total Fund (Gross Market Value)	117.9	100.6	101.0	-0.4	n.a.	n.a.	0
Exposures by Policy Groups							
Public + Private Equity	58.3	49.8	49	0.8	39	59	n.a.

• Total Fund includes the following amount held by the Treasurer of VA: \$ 366 million

Fixed Income + Cash

The values shown for each asset class on this report may reflect adjustments related to derivative positions in the Rebalance Account, pending transactions and certain accruals, in order to provide a more descriptive representation of the true economic exposure to each asset class (0 adjustments applied)

17.2

18

-0.8

12

The VRS Defined Benefit Plan Investment Policy Statement established the total fund tracking error range as the allowable observed tracking error calculated quarterly using 5 years of history as of 09/30/2024.

20.1

Differences in totals are due to rounding

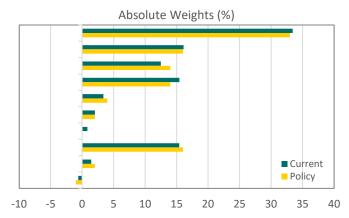
27

n.a.



Daily Asset Allocation Report

November 7, 2024



Public Equity
Private Equity
Real Assets
Credit Strategies
Diversifying Strategies
PIP
EMP
Fixed Income
Cash
Leverage



Tracking Error (%)
5Yr Fund 2.4
5Yr Public 1.7

		Weights (%)								
Asset Class	Billions (\$)	Current	Policy	Variance	Min	Max	Internal			
Public Equity	38.9	33.4	33.0	0.4	26	40	50			
Private Equity	18.8	16.1	16.0	0.1	9	23	13			
Real Assets	14.6	12.5	14.0	-1.5	7	21	21 17			
Credit Strategies	18.0	15.4	14.0	1.4	7	21	4			
Diversifying Strategies	3.9	3.4	4.0	-0.6	1	9	0			
Private Investment Partnerships (PIP)	2.4	2.4 2.0		0.0	0	4	0			
Exposure Management Portfolio (EMP)	1.0	1.0 0.8 0.0		0.8	0	6	0			
Fixed Income	17.9	15.4	16.0	-0.6	12	23	95			
Cash	1.7	1.4	2.0	-0.6	0	7	0			
Leverage	-0.7	-0.6	-1.0	0.4	-3	0	0			
Total Fund (Net Market Value)	116.4	100.0	100.0	0.0	n.a.	n.a.	36			
Total Fund (Gross Market Value)	117.1	100.6	101.0	-0.4	n.a.	n.a.	0			
Exposures by Policy Groups										
Public + Private Equity	57.7	49.5	49	0.5	39	59	n.a.			
Fixed Income + Cash	19.6	16.9	18	-1.1	12	27	n.a.			

- Total Fund includes the following amount held by the Treasurer of VA: \$ 124 million
- The values shown for each asset class on this report may reflect adjustments related to derivative positions in the Rebalance Account, pending transactions and certain accruals, in order to provide a more descriptive representation of the true economic exposure to each asset class (0 adjustments applied)
- The VRS Defined Benefit Plan Investment Policy Statement established the total fund tracking error range as the allowable observed tracking error calculated quarterly using 5 years of history as of 9/30/2024
- Differences in totals are due to rounding

VRS Investment DepartmentRecap of New Investments/Terminations
Time Period: 10/18/2024 - 11/14/2024



Program	Action	Effective Date	Commitment/ Current Value	Funding/ Defunding Period	Description
Real Assets	Hired	11/01/2024	\$200 Million	4 years	QuadCP Fund II – U.S. focused closed-end fund focused on opportunistic real estate.
Private Equity	Hired	10/23/2024	\$100 Million	5 years	Harbourvest Co-Investment Fund VII – a global direct co-investment fund that invests in both buyout and growth equity transactions.









Global Equity Benchmarks

Andrew Junkin Chief Investment Officer

November 14, 2024

Code of Federal Regulations - Foreign Adversaries

- The Secretary of Commerce has defined a foreign adversary as "any foreign government or foreign non-government person determined by the Secretary to have engaged in a long-term pattern or serious instances of conduct significantly adverse to the national security of the United States or security and safety of United States persons"
- Currently, the Secretary has determined the following to be foreign adversaries:
 - The People's Republic of China, including the Hong Kong Special Administrative Region (China);
 - 2. Republic of Cuba (Cuba);
 - 3. Islamic Republic of Iran (Iran);
 - 4. Democratic People's Republic of Korea (North Korea);
 - 5. Russian Federation (Russia); and
 - 6. Venezuelan politician Nicolás Maduro (Maduro Regime).



Existing Exposure

	Exposure as of June 30, 2024 (000s)				(00	0s)	
	Priva	te Markets	Pub	lic Markets	Tot	al	Notes
China (including Hong Kong)	\$	759,095	\$	1,385,409	\$	2,144,334	Adjusted in total due to \$170mm notional short in certain strategies
Russia	\$	-	\$	1,912	\$	1,912	Non liquid due to ongoing sanctions
Cuba	\$	-	\$	-	\$	-	
North Korea	\$	-	\$	-	\$	-	
Iran	\$	-	\$	-	\$	-	
Venezuela	\$	-	\$	6,408	\$	6,408	Not on foreign adversaries list, not Maduro regime
Total Exposure	\$	759,095	\$	1,393,729	\$	2,152,654	
Percent of Total Fund						1.9%	

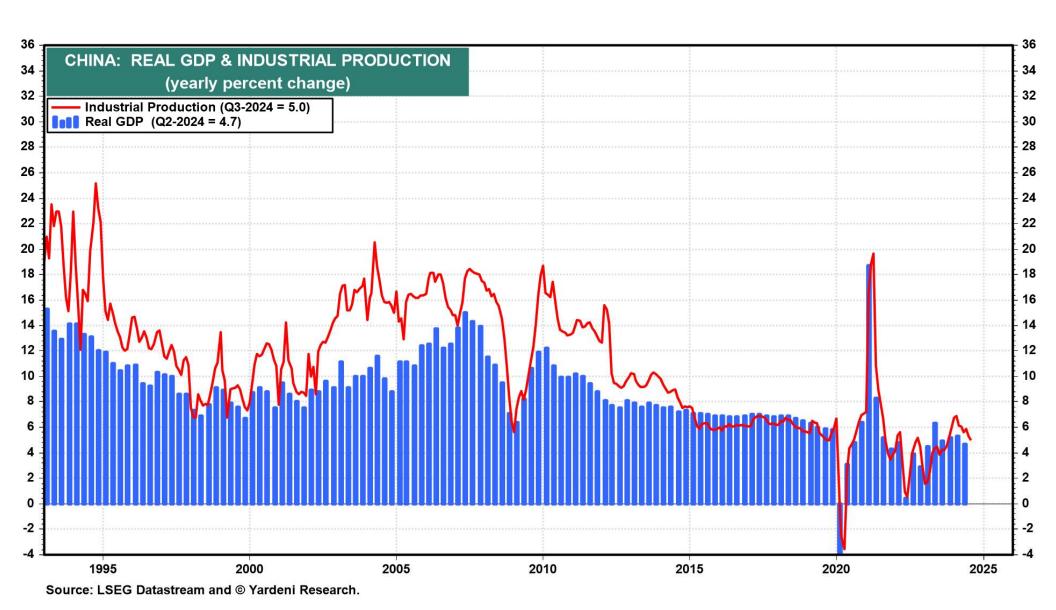


Existing Exposure

- Dominated by China
 - Two critical issues
 - Investment environment
 - o Geopolitics

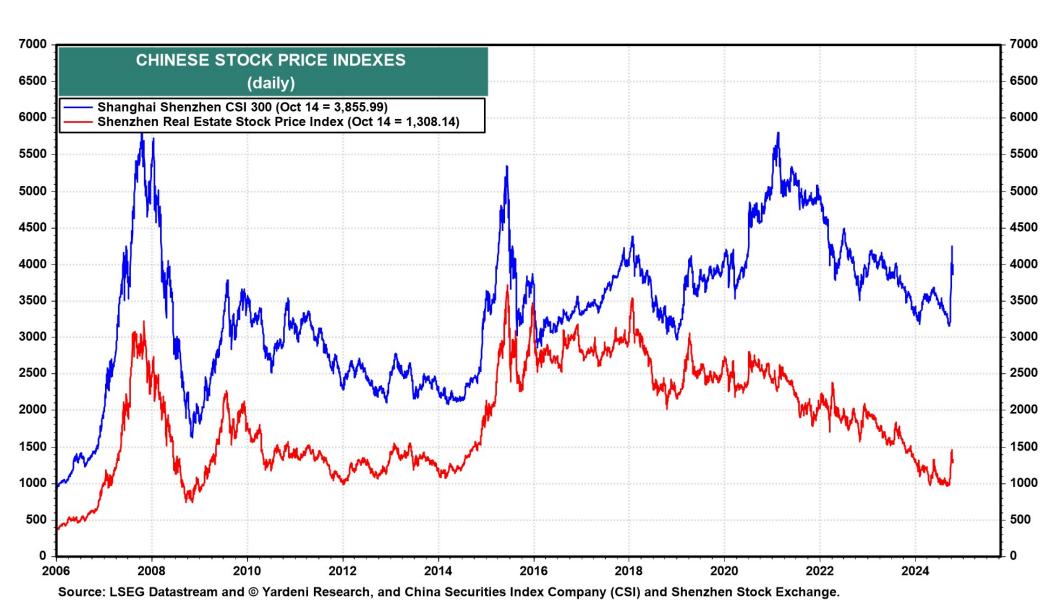


China – Economic Growth Slowing





Real Estate and Equity Market Performance





Value or Value Trap?

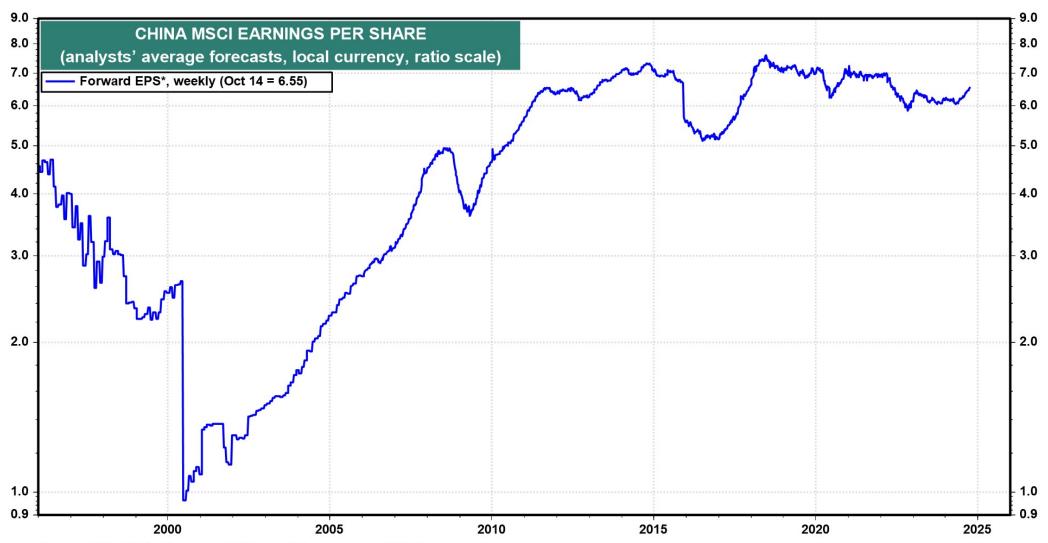


Source: LSEG Datastream and @ Yardeni Research, and MSCI.

^{*} Price divided by 12-month forward consensus expected operating earnings per share.



Earnings Stagnating

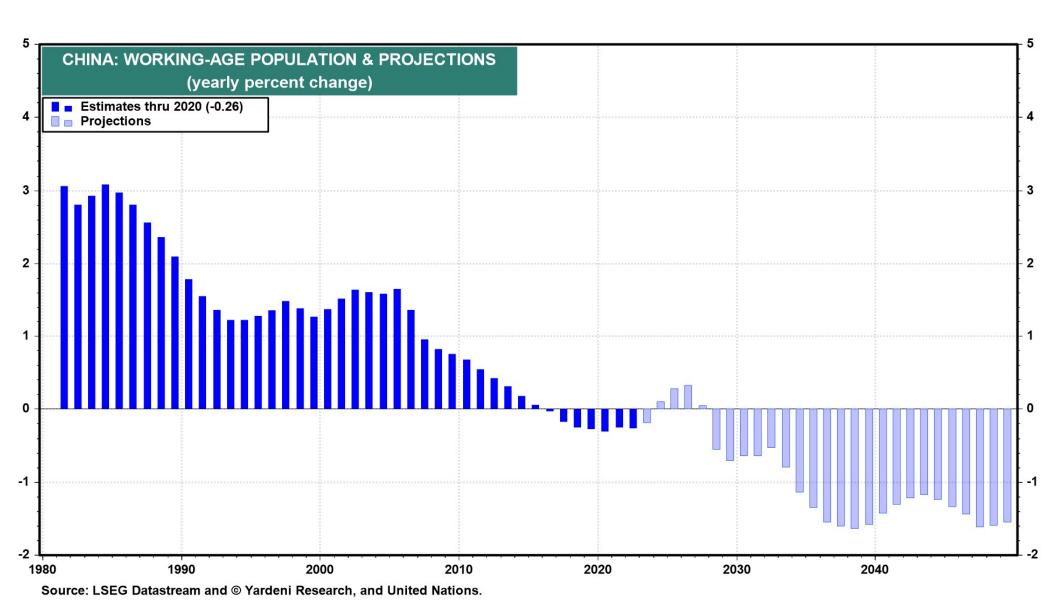


Source: LSEG Datastream and @ Yardeni Research, and MSCI.

^{*} Time-weighted average of consensus estimates for current year and next year.



Demographic Headwind



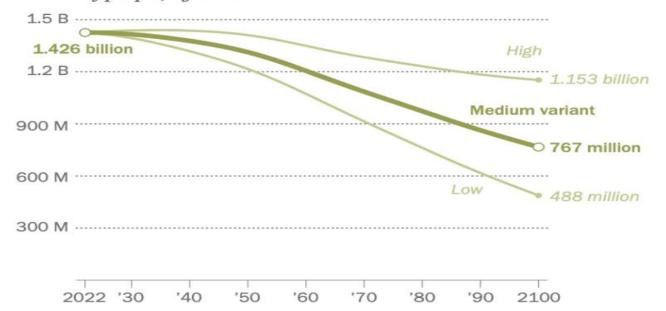


Or Tornado?

China's population is likely to fall below a billion people before 2100

China's population is likely to fall below a billion people before 2100

Number of people, by variant



Note: May differ from national census figures. The medium variant is the middle-of-the-road estimate provided by the UN; high and low variant scenarios involve total fertility being 0.5 births above or below the medium scenario, respectively.

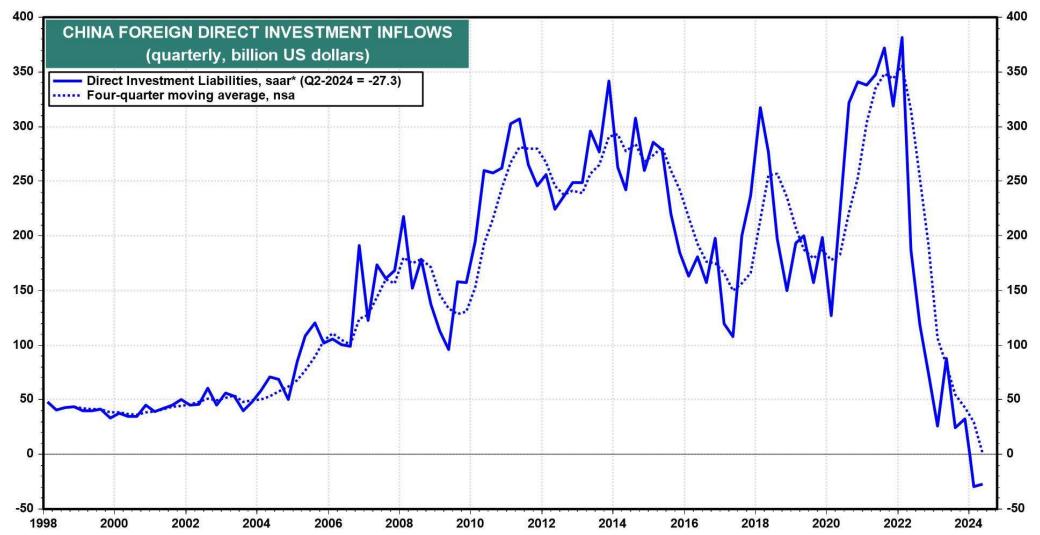
Source: UN Population Division's World Population Prospects: The 2022 Revision.

PEW RESEARCH CENTER



Source: https://www.pewresearch.org/short-reads/2022/12/05/key-facts-about-chinas-declining-population

China – Foreign Investors Departing

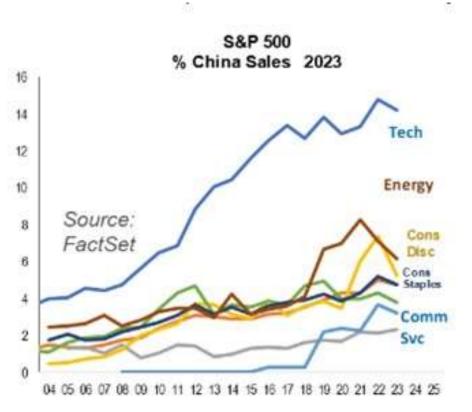


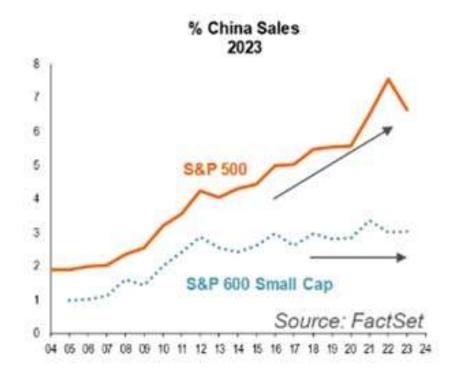
Source: LSEG Datastream and @ Yardeni Research, and China State Administration of Foreign Exchange.

^{*} Seasonally adjusted by Yardeni Research.



Economic Ties Persist





Source: Piper Sandler



China Exposure Analysis: Index Exposure Revenue by Country

	MSCI AC	MSCI AC		
	World	World ex	MSCI	
Country	IMI	CN IMI	World	S&P 500
United States	45.0	46.2	48.8	58.5
Mainland China	8.4	6.7	7.2	7.5
Japan	4.9	5.0	4.7	2.6
United Kingdom	3.1	3.1	3.2	2.2
Canada	2.9	3.0	3.1	1.8
India	2.9	3.0	1.5	1.5
Germany	2.6	2.6	2.8	2.3
Taiwan	2.0	2.0	1.8	2.1
Australia	1.8	1.8	1.8	0.9
France	1.7	1.7	1.9	1.4
Memo: Hong Kong	0.5	0.5	0.5	0.2

Some reduction in exposure to China by excluding from index but meaningful exposure remains.

Source: MSCI, S&P Global, FactSet



China Exposure Analysis: Top 25 Contributors to China Revenue Exposure

		ACWI IMI	China	%	
		ex CN/HK	Revenue	Contribution	
Company	Country	Wgt	Exposure	to Total	
Apple Inc.	United States	3.97	17.8	10.6	
NVIDIA Corporation	United States	3.95	16.6	9.8	*
Microsoft Corporation	United States	3.45	11.2	5.8	
Broadcom Inc.	United States	0.94	31.5	4.4	
Tesla, Inc.	United States	0.74	22.0	2.4	
Meta Platforms Inc Class A	United States	1.48	9.9	2.2	Top 4 contribute more than China as a whole
QUALCOMM Incorporated	United States	0.22	61.2	2.0	China as a whole
Taiwan Semiconductor Manufacturing Co., Ltd.	Taiwan	0.93	12.4	1.7	
BHP Group Ltd	Australia	0.17	60.9	1.6	/
Amazon.com, Inc.	United States	2.06	4.1	1.3	/
ASML Holding NV	Netherlands	0.32	25.8	1.2	/
Chevron Corporation	United States	0.31	25.2	1.2	/
Visa Inc. Class A	United States	0.54	13.9	1.1	/
Rio Tinto plc	United Kingdom	0.09	56.1	0.7	/
Applied Materials, Inc.	United States	0.18	26.8	0.7	/
Lam Research Corporation	United States	0.11	41.2	0.7	
KLA Corporation	United States	0.11	41.7	0.7	
Advanced Micro Devices, Inc.	United States	0.30	14.7	0.7	/
Texas Instruments Incorporated	United States	0.21	18.8	0.6	/
Eli Lilly and Company	United States	0.87	4.4	0.6	
Merck & Co., Inc.	United States	0.33	11.1	0.5	
Tokyo Electron Ltd.	Japan	0.08	43.4	0.5	
AstraZeneca PLC	United Kingdom	0.28	12.5	0.5	
Alphabet Inc. Class A	United States	1.12	3.1	0.5	
Marvell Technology, Inc.	United States	0.08	42.1	0.5	
Totals		22.87	15.4	52.5	
Memo: China Contribution to ACWI IMI		2.58	86.8	26.6	*



Source: MSCI, FactSet

China Exposure Analysis: Top 25 Contributors to China Supply Chain Exposure

ACWI IMI Supply % ex CN/HK Contribution				Cillia		
Company Country Wgt Exposure to Total Apple Inc. United States 3.97 15.8 9.0 Microsoft Corporation United States 3.45 10.8 5.4 NVIDIA Corporation United States 3.95 9.2 5.3 Tesla, Inc. United States 0.74 46.8 5.0 Amazon.com, Inc. United States 2.06 9.5 2.8 Meta Platforms Inc Class A United States 1.48 11.4 2.5 Taiwan Semiconductor Manufacturing Co., Ltd. Taiwan 0.93 11.3 1.5 Alphabet Inc. Class A United States 1.00 9.3 1.3 Broadcom Inc. United States 0.94 9.6 1.3 Eli Lilly and Company United States 0.49 16.0 1.1 Johnson & Johnson United States 0.49 16.0 1.1 Johnson & Johnson United States 0.41 15.6 1.0 Walmart Inc. United States 0.10			ACWI IMI	Supply	%	
Apple Inc. United States 3.97 15.8 9.0			ex CN/HK	Chain	Contribution	
Microsoft Corporation Wild States Wild Corporation United States United State	Company	Country	Wgt	Exposure	to Total	
NVIDIA Corporation United States 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Apple Inc.	United States	3.97	15.8	9.0	
Tesla, Inc. Marcolomore, Inc. United States 0.74 46.8 5.0 Amazon.com, Inc. United States 2.06 9.5 2.8 Meta Platforms Inc Class A United States 1.48 11.4 2.5 Taiwan Semiconductor Manufacturing Co., Ltd. Taiwan 0.93 11.3 1.5 Alphabet Inc. Class A United States 1.12 9.3 1.5 Alphabet Inc. Class C United States 1.00 9.3 1.3 Broadcom Inc. United States 0.94 9.6 1.3 Bil Lilly and Company United States 0.87 9.7 1.2 Procter & Gamble Company United States 0.49 16.0 1.1 Johnson & Johnson United States 0.47 15.6 1.0 Walmart Inc. United States 0.49 16.0 1.1 United States 0.49 16.0 0.1 Walmart Inc. United States 0.10 57.9 0.8 Eaton Corp. Plc United States 0.10 57.9 0.8 Eaton Corp. Plc United States 0.17 32.9 0.8 Home Depot, Inc. United States 0.49 11.0 0.8 QUALCOMM Incorporated United States 0.22 21.9 0.7 Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.25 17.2 0.6 United States 0.25 17.2 0.6	Microsoft Corporation	United States	3.45	10.8	5.4	*
Amazon.com, Inc. United States 2.06 9.5 2.8 Meta Platforms Inc Class A United States 1.48 11.4 2.5 Taiwan Semiconductor Manufacturing Co., Ltd. Taiwan 0.93 11.3 1.5 Alphabet Inc. Class A United States 1.12 9.3 1.5 Alphabet Inc. Class C United States 1.00 9.3 1.3 Broadcom Inc. United States 0.94 9.6 1.3 Eli Lilly and Company United States 0.87 9.7 1.2 Procter & Gamble Company United States 0.49 16.0 1.1 Johnson & Johnson United States 0.47 15.6 1.0 Walmart Inc. United States 0.47 15.6 1.0 Walmart Inc. United States 0.10 57.9 0.8 Home Depot, Inc. United States 0.17 32.9 0.8 Home Depot, Inc. United States 0.22 21.9 0.7 Caterpillar Inc. United States	NVIDIA Corporation	United States	3.95	9.2	5.3	
Meta Platforms Inc Class A United States 1.48 11.4 2.5 Taiwan Semiconductor Manufacturing Co., Ltd. Alphabet Inc. Class A United States 1.12 9.3 1.5 Alphabet Inc. Class C United States 1.00 9.3 1.3 Broadcom Inc. United States 0.94 9.6 1.3 Eli Lilly and Company United States 0.87 Procter & Gamble Company United States 0.49 16.0 1.1 Johnson & Johnson United States 0.47 15.6 1.0 Walmart Inc. United States 0.10 57.9 0.8 Eaton Corp. Plc United States 0.10 United States 0.17 32.9 0.8 Eaton Corp. Plc United States 0.17 32.9 0.8 Eaton Corp. Plc United States 0.17 32.9 0.8 Eaton Corp. Plc United States 0.10 United States 0.10 0.25 1.7 0.7 Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.25 17.2 0.6	Tesla, Inc.	United States	0.74	46.8	5.0	
China as a whole China as a whole China as a whole	Amazon.com, Inc.	United States	2.06	9.5	2.8	
Taiwan Semiconductor Manufacturing Co., Ltd. Taiwan 0.93 11.3 1.5 Alphabet Inc. Class A United States 1.10 9.3 1.3 Broadcom Inc. United States 0.94 9.6 1.3 Bli Lilly and Company United States 0.87 9.7 1.2 Procter & Gamble Company United States 0.49 16.0 1.1 Johnson & Johnson United States 0.47 15.6 1.0 Walmart Inc. United States 0.43 14.8 0.9 Amphenol Corporation Class A United States 0.10 57.9 0.8 Eaton Corp. Plc United States 0.17 32.9 0.8 Home Depot, Inc. United States 0.49 11.0 0.8 QUALCOMM Incorporated United States 0.22 21.9 0.7 Caterpillar Inc. United States 0.22 21.9 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-	Meta Platforms Inc Class A	United States	1.48	11.4	2.5	•
Alphabet Inc. Class C United States 1.00 9.3 1.3 Broadcom Inc. United States 0.94 9.6 1.3 Eli Lilly and Company United States 0.87 9.7 1.2 Procter & Gamble Company United States 0.49 16.0 1.1 Johnson & Johnson United States 0.47 15.6 1.0 Walmart Inc. United States 0.43 14.8 0.9 Amphenol Corporation Class A United States 0.10 57.9 0.8 Eaton Corp. Plc United States 0.17 32.9 0.8 Home Depot, Inc. United States 0.49 11.0 0.8 QUALCOMM Incorporated United States 0.22 21.9 0.7 Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.33 13.2 0.6 GE Aerospace United States 0.25 17.2 0.6	Taiwan Semiconductor Manufacturing Co., Ltd.	Taiwan	0.93	11.3	1.5	China as a whole
Broadcom Inc.	Alphabet Inc. Class A	United States	1.12	9.3	1.5	/
Eli Lilly and Company United States 0.87 9.7 1.2 Procter & Gamble Company United States 0.49 16.0 1.1 Johnson & Johnson United States 0.47 15.6 1.0 Walmart Inc. United States 0.43 14.8 0.9 Amphenol Corporation Class A United States 0.10 57.9 0.8 Eaton Corp. Plc United States 0.17 32.9 0.8 Home Depot, Inc. United States 0.49 11.0 0.8 QUALCOMM Incorporated United States 0.22 21.9 0.7 Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.25 17.2 0.6	Alphabet Inc. Class C	United States	1.00	9.3	1.3	/
Procter & Gamble Company United States 0.49 16.0 1.1 Johnson & Johnson United States 0.47 15.6 1.0 Walmart Inc. United States 0.43 14.8 0.9 Amphenol Corporation Class A United States 0.10 57.9 0.8 Eaton Corp. Plc United States 0.17 32.9 0.8 Home Depot, Inc. United States 0.49 11.0 0.8 QUALCOMM Incorporated United States 0.22 21.9 0.7 Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.25 17.2 0.6 GE Aerospace United States <td>Broadcom Inc.</td> <td>United States</td> <td>0.94</td> <td>9.6</td> <td>1.3</td> <td>/</td>	Broadcom Inc.	United States	0.94	9.6	1.3	/
United States 0.47 15.6 1.0	Eli Lilly and Company	United States	0.87	9.7	1.2	/
Walmart Inc. United States 0.43 14.8 0.9 Amphenol Corporation Class A United States 0.10 57.9 0.8 Eaton Corp. Plc United States 0.17 32.9 0.8 Home Depot, Inc. United States 0.49 11.0 0.8 QUALCOMM Incorporated United States 0.22 21.9 0.7 Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.25 17.2 0.6 GE Aerospace United States 0.25 17.2 0.6	Procter & Gamble Company	United States	0.49	16.0	1.1	
Amphenol Corporation Class A United States 0.10 57.9 0.8 Eaton Corp. Plc United States 0.17 32.9 0.8 Home Depot, Inc. United States 0.49 11.0 0.8 QUALCOMM Incorporated United States 0.22 21.9 0.7 Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.25 17.2 0.6 GE Aerospace United States 0.25 17.2 0.6	Johnson & Johnson	United States	0.47	15.6	1.0	/
Eaton Corp. Plc United States 0.17 32.9 0.8 Home Depot, Inc. United States 0.49 11.0 0.8 QUALCOMM Incorporated United States 0.22 21.9 0.7 Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.33 13.2 0.6 GE Aerospace United States 0.25 17.2 0.6	Walmart Inc.	United States	0.43	14.8	0.9	
Home Depot, Inc.	Amphenol Corporation Class A	United States	0.10	57.9	0.8	
QUALCOMM Incorporated United States 0.22 21.9 0.7 Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.33 13.2 0.6 GE Aerospace United States 0.25 17.2 0.6	Eaton Corp. Plc	United States	0.17	32.9	0.8	/
Caterpillar Inc. United States 0.23 21.6 0.7 Hon Hai Precision Industry Co., Ltd. Taiwan 0.10 49.5 0.7 Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.33 13.2 0.6 GE Aerospace United States 0.25 17.2 0.6	Home Depot, Inc.	United States	0.49	11.0	0.8	
Hon Hai Precision Industry Co., Ltd. Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.33 13.2 0.6 United States 0.25 17.2 0.6	QUALCOMM Incorporated	United States	0.22	21.9	0.7	/
Samsung Electronics Co., Ltd. Korea 0.25 18.7 0.7 Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.33 13.2 0.6 GE Aerospace United States 0.25 17.2 0.6	Caterpillar Inc.	United States	0.23	21.6	0.7	
Coca-Cola Company United States 0.34 13.3 0.6 Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.33 13.2 0.6 GE Aerospace United States 0.25 17.2 0.6	Hon Hai Precision Industry Co., Ltd.	Taiwan	0.10	49.5	0.7	
Schneider Electric SE France 0.18 25.8 0.6 Merck & Co., Inc. United States 0.33 13.2 0.6 GE Aerospace United States 0.25 17.2 0.6	Samsung Electronics Co., Ltd.	Korea	0.25	18.7	0.7	/
Merck & Co., Inc. United States 0.33 13.2 0.6 United States 0.25 17.2 0.6	Coca-Cola Company	United States	0.34	13.3	0.6	
GE Aerospace United States 0.25 17.2 0.6	Schneider Electric SE	France	0.18	25.8	0.6	/
	Merck & Co., Inc.	United States	0.33	13.2	0.6	
Totals 24.57 13.4 47.5	GE Aerospace	United States	0.25	17.2	0.6	/
	Totals		24.57	13.4	47.5	
Memo: China Contribution to ACWI IMI 2.58 65.5 19.9	Memo: China Contribution to ACWI IMI		2.58	65.5	19.9	•

China



Source: MSCI, FactSet

Changes in Country Weights

Grouping: Country Of Exposure	ACWI Weight (%)	ACWI Ex China Weight (%)	Diff. (%)
USA	63.5%	65.1%	1.6%
Japan	5.7%	5.8%	0.1%
United Kingdom	3.4%	3.5%	0.1%
Canada	2.7%	2.8%	0.1%
China	2.4%	0.0%	-2.4%
France	2.4%	2.4%	0.1%
India	2.2%	2.3%	0.1%
Taiwan	2.1%	2.2%	0.1%
Switzerland	2.1%	2.1%	0.1%
Germany	1.9%	1.9%	0.0%



Changes in Sector Weights

Grouping: GICS Sector	ACWI Weight (%)	ACWI Ex China Weight (%)	Diff. (%)
Total	100.0%	100.0%	0.00%
Information Technology	24.4%	24.9%	0.46%
Financials	15.4%	15.4%	-0.04%
Industrials	11.3%	11.4%	0.14%
Health Care	10.7%	10.9%	0.16%
Consumer Discretionary	10.7%	10.3%	-0.42%
Telecommunication Services	7.4%	7.0%	-0.36%
Consumer Staples	6.1%	6.1%	0.04%
Materials	4.4%	4.4%	0.01%
Energy	4.4%	4.4%	0.01%
Real Estate	2.6%	2.6%	0.00%
Utilities	2.5%	2.5%	-0.01%



Forward Looking Returns

10 Year Assumptions

				Emerging			
		Global Equity	Emerging	Markets ex-			
	Global Equity	ex-China	Markets	China			
Expected Return	4.85%	4.83%	5.50%	5.50%			
Expected Risk	17.05%	16.93%	26.00%	27.50%			

Source: Wilshire Advisors

20 Year Assumptions

	20 1001 7100011110110				
		Emerging			
	Emerging	Markets ex-			
	Markets	China			
Expected Retui	8.90%	9.00%			
Expected Risk	22.00%	22.00%			

Source: Meketa



US/China Relations – Select Recent Events

- **2018**
 - US institutes multiple rounds of new tariffs on China; China retaliates
- **2019**
 - US increases tariffs from 10% to 25%; China retaliates
 - US labels China a "currency manipulator;" effectively adds additional taxes to imported Chinese goods; designation removed in 2020
- **2020**
 - China and US both expel certain journalists; restrictions eased in 2021
 - US orders China to close its consulate in Houston; China retaliates by ordering the closure of the US consulate in Chungdu
- **2**021
 - US (both Trump and Biden administrations) declares that China is committing genocide against Uyghurs
 - Biden administration maintains Trump administration tariffs
 - NATO declares China a "security challenge"
- **2**022
 - US Commerce Department restricts certain exports to China related to advanced computing chips
- **2023**
 - US shoots down suspected Chinese spy balloon over continental United States
- **2024**
 - Executive Order prohibiting US investors from investing in certain technologies in China



US/China Relations – Ongoing Issues

- China/Russia "no limits friendship"
- Technology competition AI, quantum computing
- Claims over sovereignty related to the South China Sea
- US/China/Taiwan relations
- Cyberattacks attributed to China e.g., Volt Typhoon



Implementation and Next Steps

- Propose restricting portfolio and benchmark exposures to foreign adversaries
 - RBA to Board for November meeting, included in IAC materials
- Open Implementation Questions
 - Public Markets
 - Will take time to research and implement
 - Exceptions for indirect ownership where exposure is limited?
 - O Derivatives exposure?
 - Private Markets
 - Existing exposure will take time to roll off
 - Side letters for future commitments where possible?
 - Defined Contribution Plans



Request for Board Action RBA 2024-11-____



Approve Policy Related to Certain Foreign Investments.

Requested Action

The Board authorizes the Chief Investment Officer (CIO) to pursue a policy related to current and future investments in countries designated as foreign adversaries by the Office of the Secretary of Commerce. This policy may include restricting some or all of such investments, and the relevant benchmarks used by VRS for such investments, in the designated countries. The Board further determines that such a policy is consistent with VRS' fiduciary duty.

Description/Background

The U.S Department of the Treasury's Office of Foreign Assets Control (OFAC) is the primary federal agency that administers and enforces economic sanctions imposed by the United States on foreign countries, entities, and individuals. The list of sanctions currently in effect is located in the Code of Federal Regulations, 31 C.F.R. subtitle V, Ch. V. Government pension plans are required to comply with sanctions administered by OFAC.

VRS' internal investment programs have put in place screening and training procedures to enable VRS staff to identify and avoid transactions that potentially involve the target of U.S. sanctions. Additionally, VRS confirms with its outside investment managers that they are aware of the need to comply with OFAC sanctions.

In addition to the OFAC, the Office of the Secretary of Commerce also promulgates regulations governing commerce with foreign countries. Specifically, 15 C.F.R. Part 791 imposes limitations on the acquisition, importation, and other transactions related to information and communication technology or services designed, developed, manufactured, or supplied by persons owned by, controlled by, or subject to the jurisdiction or direction of foreign adversaries. Currently, there are OFAC sanctions in place to some extent against each country listed as a foreign adversary of the United State in 15 C.F.R. § 791.4, as well as against numerous other foreign countries, entities, and individuals not listed in 15 C.F.R. § 791.4.

VRS has minimal exposure to investments involving the governments of countries listed as foreign adversaries in 15 C.F.R. § 791.4. While 15 C.F.R. Part 790 does not impose sanctions in the same form as OFAC sanctions, the restrictions imposed on international commerce with the countries designated by the Office of the Secretary of Commerce, as well as the potential for the imposition of additional commerce-related restrictions in the future, may serve to increase the level of risk for investments in such countries.

The Board has the duty to act solely in the best interest of its more than 830,000 plan members, retirees, and beneficiaries. To meet its fiduciary duty, VRS carefully analyzes economic factors and assesses monetary risk to achieve the highest level of return for a given level of risk over the long term. Further, risk management is a primary objective for the investment staff, and investment results will be reviewed in the context of risk-adjusted returns. As delineated in the VRS Defined Benefit Plan Investment Policy Statement adopted by the Board, the CIO is responsible for obtaining and/or developing appropriate systems, models, tools, and reports necessary to monitor the risks of the fund and effectively communicate such risks on a regular basis to the Board. In accordance with the Policy

RBA	202	24-11-
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Statement, given the potential for increased investment risk, the Board authorizes the CIO to pursue a policy related to current and future investments in countries designated as foreign adversaries by the Office of the Secretary of Commerce. This policy may include restricting of some or all of such investments, and the relevant benchmarks used by VRS for such investments, in the designated countries. The Board further determines that such a policy is consistent with VRS' fiduciary duty.

The CIO and staff will develop an implementation plan for the policy and periodically provide updates to the Board of actions taken under the policy.

The Investment Advisory Committee reviewed the policy described herein and recommends its approval to the entire Board.

Rationale for Requested Action

The approval of the policy will better position the VRS Trust Fund to achieve its investment objectives to achieve the highest level of return for a given level of risk over the long term.

Authority for Requested Action

The Board is authorized to approve these recommendations pursuant to the provisions of *Code of Virginia* §§ 51.1-124.22 and -124.30.

The above action is approved.		
A. Scott Andrews, Chair	Date	
VRS Board of Trustees		



Key Takeaways

Returns

• Your 5-year net total return was 9.5%. This was above both the U.S. Public median of 8.7% and the peer median of 9.2%.

Value added

• Your 5-year net value added was 1.7%. This was above both the U.S. Public median of 1.2% and the peer median of 1.2%.

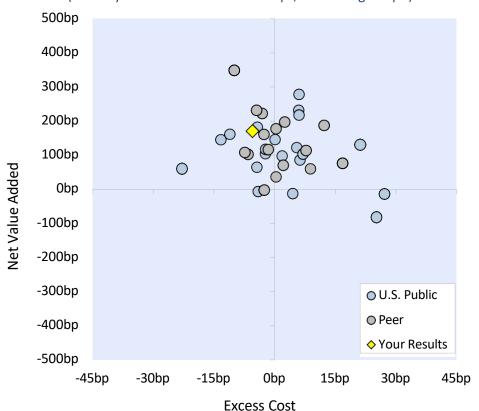
Cost

- Your investment cost of 64.2 bps was below your benchmark cost of 69.3 bps. This suggests that your fund was low cost compared to your peers.
- Your fund was below benchmark cost because it paid less than peers for similar services and it had a lower cost implementation style.

Your 5-year and 10-year performance placed in the positive value added, low cost quadrant of the cost effectiveness chart.

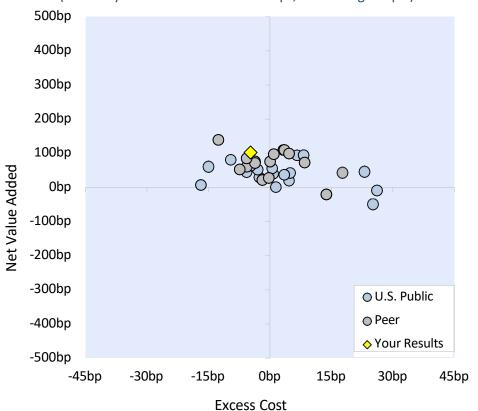


(Your 5-year: net value added 170 bps, cost savings 5 bps¹)



10-year net value added versus excess cost

(Your 10-year: net value added 102 bps, cost savings 5 bps²)



^{1.} Your 5-year cost savings of 5 basis points is the average of your cost savings for the past 5 years.

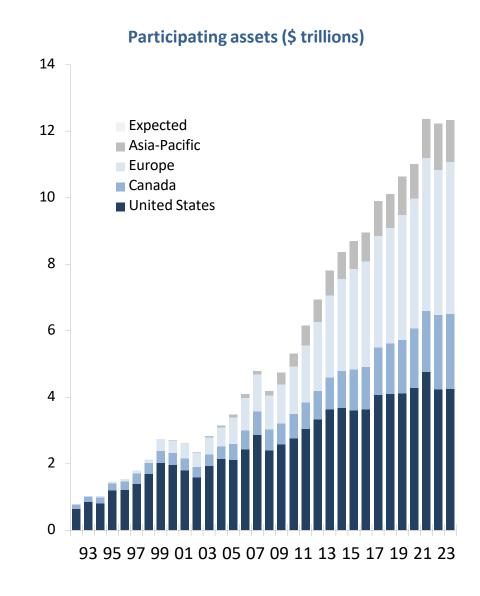
^{2.} Your 10-year cost savings of 5 basis points is the average of your cost savings for the past 10 years.

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	5-year	10-year
Net value added	(320.0) bp	590.0 bp	500.0 bp	8.0 bp	(12.0) bp	(19.0) bp	49.0 bp	(16.5) bp	88.0 bp	80.0 bp	170.5 bp	102.3 bp
Excess cost	(5.2) bp	(3.5) bp	(5.5) bp	(7.3) bp	(5.7) bp	(5.0) bp	(5.6) bp	(4.2) bp	(1.0) bp	(4.0) bp	(5.4) bp	(4.7) bp

This benchmarking report compares your cost and performance to the 287 funds in CEM's extensive pension database.

- 146 U.S. pension funds participate. The median U.S. fund had assets of \$9.9 billion and the average U.S. fund had assets of \$29.1 billion. Total participating U.S. assets were \$4.2 trillion.
- 65 Canadian funds participate with assets totaling \$2.3 trillion.
- 64 European funds participate with aggregate assets of \$4.6 trillion. Included are funds from the Netherlands, Norway, Sweden, Finland, Ireland, Denmark and the UK.
- 8 Asia-Pacific funds participate with aggregate assets of \$1.3 trillion. Included are funds from Australia, New Zealand and South Korea.
- 4 funds from other regions participate.

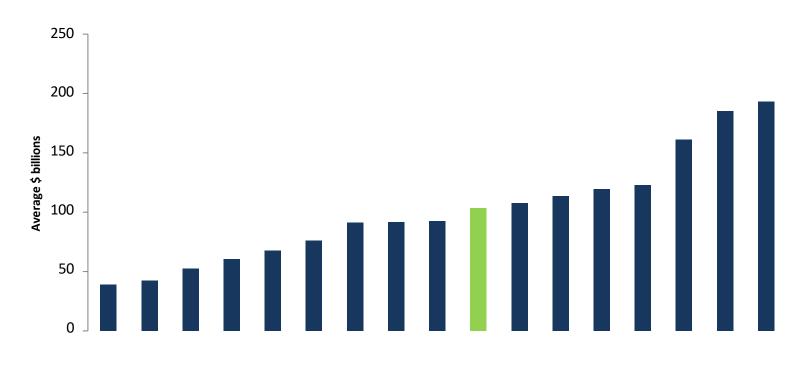
The most meaningful comparisons for your returns and value added are to the U.S. Public universe, which consists of 43 funds. The U.S. Public universe assets totaled \$3.0 trillion and the median fund had assets of \$26.7 billion.



The most valuable comparisons for cost performance are to your custom peer group because size impacts costs.

Peer group for Virginia Retirement System

- 17 U.S. sponsors from \$39.1 billion to \$193.0 billion
- Median size of \$92.4 billion versus your \$103.2 billion



To preserve client confidentiality, given potential access to documents as permitted by the Freedom of Information Act, we do not disclose your peers' names in this document. For some of the peers, 2022 cost data was used as a proxy for 2023.

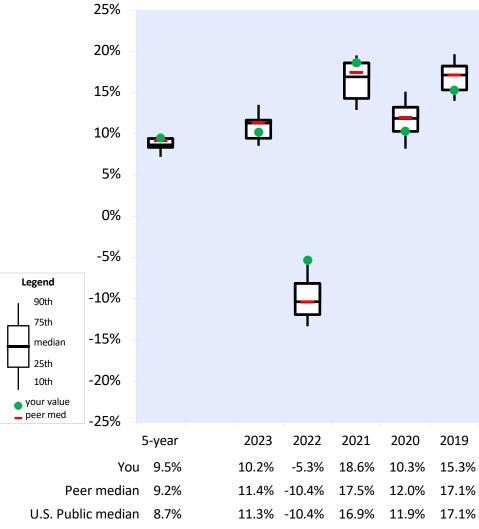
Your 5-year net total return of 9.5% was above both the U.S. Public median of 8.7% and the peer median of 9.2%.

Total returns, by themselves, provide little insight into the reasons behind relative performance. Therefore, we separate total return into its more meaningful components: policy return and value added.

	Your 5-year
Net total fund return	9.5%
- Policy return	7.8%
= Net value added	1.7%

This approach enables you to understand the contribution from both policy mix decisions (which tend to be the board's responsibility) and implementation decisions (which tend to be management's responsibility).

U.S. Public net total returns - quartile rankings



Your 5-year policy return of 7.8% was above both the U.S. Public median of 7.4% and the peer median of 7.4%.

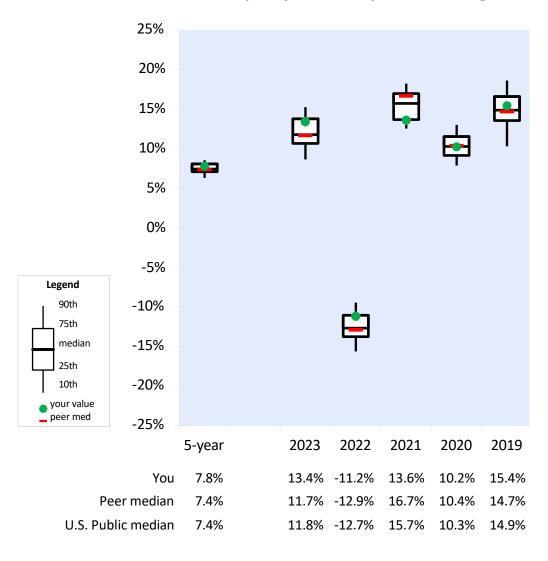
Your policy return is the return you could have earned passively by indexing your investments according to your policy mix.

Having a higher or lower relative policy return is not necessarily good or bad. Your policy return reflects your investment policy, which should reflect your:

- Long term capital market expectations
- Liabilities
- Appetite for risk

Each of these three factors is different across funds. Therefore, it is not surprising that policy returns often vary widely between funds.

U.S. Public policy returns - quartile rankings



Your 5-year policy return of 7.8% was above the U.S. Public median of 7.4% primarily because of:

5-year average policy mix¹

5-year average poi	mark	return			
	More/	Your	U.S. Publ		
	Fund	Avg.	Less	Fund	Avg.
Stock - U.S.	0%	17%	-17%	15.0%	15.0%
Stock - EAFE	0%	4%	-4%	n/a³	8.3%
Stock - Global	36%	14%	23%	12.5%	11.9%
Other Stock ²	0%	10%	-10%	n/a³	n/a³
Total Stock	36%	45%	-9%	12.5%	11.7%
Fixed income - U.S.	15%	16%	-1%	1.1%	1.3%
Fixed income - Inflation indexed	0%	3%	-4%	n/a³	2.7%
Cash	1%	-1%	2%	n/a³	1.9%
Other Fixed Income ²	5%	7%	-1%	n/a³	n/a³
Total Fixed Income	21%	25%	-4%	2.3%	1.6%
Global TAA	1%	1%	1%	8.3%	6.4%
Multi-strategy funds	2%	3%	0%	n/a³	4.7%
REITs	2%	1%	1%	n/a³	5.5%
Real estate ex-REITs	12%	9%	3%	4.7%	5.1%
Other Real Assets ²	1%	3%	-3%	n/a³	n/a³
Private equity ⁴	16%	11%	5%	8.0%	4.1%
Private debt	10%	3%	7%	n/a³	6.2%
Total	100%	100%			

1. 5-year weights are based only on plans with 5 years of continuous data.

5-year bench-

- 2. Other stock includes: Stock Emerging and Stock ACWI x
 U.S.. Other fixed income
 includes: Fixed income U.S.
 gov't and fixed income long
 bonds. Other real assets include:
 Commodities, Natural resources
 and Infrastructure.
 3. A value of 'n/a' is shown if
- 3. A value of 'n/a' is shown if asset class returns are not available for the full 5 years or if they are broad and incomparable.
- 4. You have 2% policy allocation to Private Investment Partnerships (PIP), which is included in your Private Equity policy weighting.

Differences in policy return are caused by differences in policy mix and benchmarks. At the end of 2023 your policy mix compared to your peers and the U.S. Public universe as follows:

Policy asset mix

,			Peer	U.S. Publ
	Your f	und	avg.	avg.
Asset class	2019	2023	2023	2023
Stock - U.S.	0%	0%	13%	17%
Stock - EAFE	0%	0%	3%	4%
Stock - Global	40%	34%	17%	13%
Other Stock ¹	0%	0%	8%	10%
Total Stock	40%	34%	42%	45%
Fixed income - U.S.	16%	14%	16%	16%
Fixed income - Inflation indexed	0%	0%	2%	3%
Fixed income - High yield	3%	3%	1%	2%
Fixed income - Emerging	3%	1%	1%	1%
Public mortgages	0%	1%	0%	0%
Cash	0%	1%	0%	-1%
Other Fixed Income ¹	3%	0%	7%	3%
Total Fixed Income	24%	19%	27%	24%
Global TAA	0%	2%	0%	0%
Multi-strategy funds	3%	2%	2%	2%
Natural resources	0%	0%	1%	1%
Infrastructure	0%	0%	1%	2%
REITs	2%	2%	0%	1%
Real estate ex-REITs	12%	12%	9%	9%
Other Real Assets ¹	0%	0%	1%	1%
Private equity ²	13%	18%	13%	12%
Private debt	6%	12%	3%	
Total	100%	100%	100%	100%

 Other stock includes: Stock -Emerging and Stock - ACWI x U.S.. Other fixed income includes: Fixed income - Long bonds. Other real assets include: Commodities.
 You have 2% policy allocation

2. You have 2% policy allocation to Private Investment Partnerships (PIP), which is included in your Private Equity policy weighting.

Net value added is the component of total return from active management. Your 5-year net value added was 1.7%.

Net value added equals total net return minus policy return.

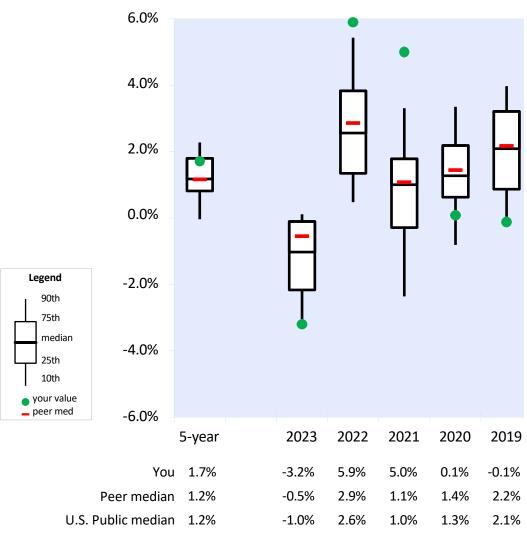
Value added for Virginia Retirement System

	Net	Policy	Net value
Year	return	return	added
2023	10.2%	13.4%	-3.2%
2022	-5.3%	-11.2%	5.9%
2021	18.6%	13.6%	5.0%
2020	10.3%	10.2%	0.1%
2019	15.3%	15.4%	-0.1%
5-Year	9.5%	7.8%	1.7%

Your 5-year net value added of 1.7% compares to a median of 1.2% for your peers and 1.2% for the U.S. Public universe.

Your 1.7% 5-year value added translates into approximately \$7.6 billion of cumulative value added over 5 years.

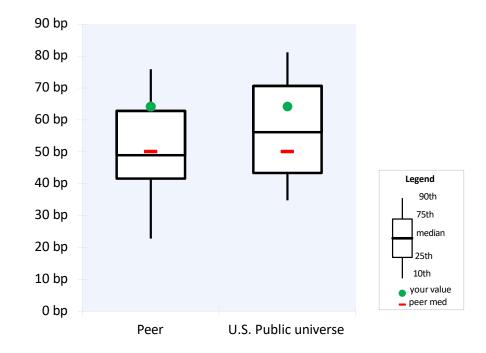
U.S. Public net value added - quartile rankings



Benchmark cost analysis suggests that your fund was low cost by 5.2 basis points in 2023.

Comparison of costs before adjusting for asset mix:

Before adjusting for asset mix differences, your total investment cost of 64.2 bps was above the peer median of 48.9 bps.



Comparison of costs after adjusting for asset mix:

Your benchmark cost is an estimate of what your cost would be given your actual asset mix and the median costs that your peers pay for similar services. It represents the cost your peers would incur if they had your actual asset mix.

Your cost versus benchmark

	\$000s	basis points
Your total investment cost	661,862	64.2 bp
Your benchmark cost	715,059	69.3 bp
Your excess cost	(53,198)	(5.2) bp

Your fund was below benchmark cost because it paid less than peers for similar services and it had a lower cost implementation style.

Reasons for your low cost status

	Excess C (Saving	
	\$000s	bps
Lower cost implementation style		
 More active management, less lower cost passive 	45,544	4.4
 Less external management, more lower cost internal 	(31,899)	(3.1
 Less LPs as a percentage of external 	(22,473)	(2.2
 Less fund of funds 	(4,940)	(0.5
 More co-investment as a percentage of LP/Co 	(4,996)	(0.5
More overlays	1,270	0.1
	(17,494)	(1.7
2. Paying less than peers for similar services		
 External investment management costs 	(42,658)	(4.1
 Internal investment management costs 	6,548	0.6
 Oversight, custodial & other costs 	407	0.0
	(35,703)	(3.5
Total savings	(53,198)	(5.2

If your internally managed assets were managed externally and you paid the peer median costs, your costs would increase by around \$119M or 11.5bps.

Cost savings achieved by managing assets in-house

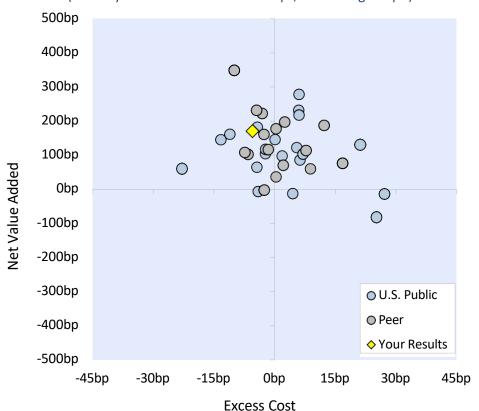
		Your average		Cost in bps		Total
		holdings		Peer	More/	more/
	Style	(mils)	Your	median	(less)	(less)
Public-market assets managed in-house		(A)	(B)	(C)	(D = B - C)	(A x D)
Stock - U.S. large cap ¹	Active	3,341	3.7 bp	26.8 bp	(23.0) bp	(7,698)
Stock - U.S. small cap	Active	723	5.4 bp	62.0 bp	(56.7) bp	(4,097)
Stock - EAFE	Active	1,633	6.7 bp	45.2 bp	(38.5) bp	(6,290)
Stock - Emerging	Active	1,046	7.9 bp	55.5 bp	(47.7) bp	(4,984)
Stock - Global	Active	9,397	6.7 bp	44.5 bp	(37.9) bp	(35,577)
Fixed income - U.S.	Active	12,567	4.6 bp	12.5 bp	(7.9) bp	(9,872)
Fixed income - Emerging	Active	358	14.6 bp	34.7 bp	(20.0) bp	(717)
Fixed income - High yield	Active	252	14.0 bp	32.9 bp	(18.9) bp	(477)
						(69,712)
						(6.8) bp
Private-market assets managed in-house						
Real assets - Real estate	Active	1,472	56.3 bp	80.8 bp	(24.4) bp	(3,598)
Global TAA	Active	120	20.6 bp	54.6 bp	(34.1) bp	(409)
Real assets - Real estate	Co-investment	331	70.4 bp	80.8 bp	(10.3) bp	(341)
Real assets - Infrastructure	Co-investment	197	4.5 bp	122.2 bp	(117.7) bp	(2,320)
Real assets - Natural resources	Co-investment	147	4.9 bp	121.8 bp	(116.9) bp	(1,719)
Private equity - Diversified	Co-investment	2,577	13.2 bp	151.5 bp	(138.3) bp	(35,650)
Private debt - Private credit	Co-investment	487	11.1 bp	109.6 bp	(98.5) bp	(4,795)
						(48,833)
						(4.7) bp
Total savings for assets managed in-house						(118,545)
						(11.5) bp

^{1.} Universe median used because peer data was insufficient.

Your 5-year and 10-year performance placed in the positive value added, low cost quadrant of the cost effectiveness chart.

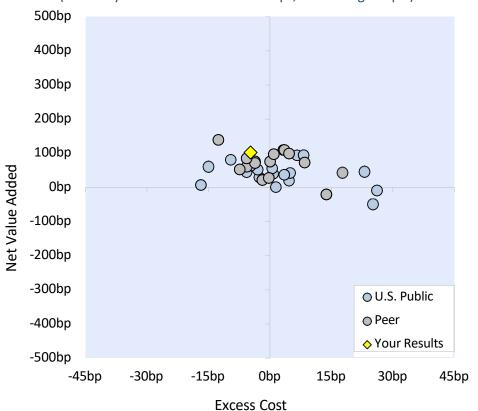


(Your 5-year: net value added 170 bps, cost savings 5 bps¹)



10-year net value added versus excess cost

(Your 10-year: net value added 102 bps, cost savings 5 bps²)



^{1.} Your 5-year cost savings of 5 basis points is the average of your cost savings for the past 5 years.

^{2.} Your 10-year cost savings of 5 basis points is the average of your cost savings for the past 10 years.

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	5-year	10-year
Net value added	(320.0) bp	590.0 bp	500.0 bp	8.0 bp	(12.0) bp	(19.0) bp	49.0 bp	(16.5) bp	88.0 bp	80.0 bp	170.5 bp	102.3 bp
Excess cost	(5.2) bp	(3.5) bp	(5.5) bp	(7.3) bp	(5.7) bp	(5.0) bp	(5.6) bp	(4.2) bp	(1.0) bp	(4.0) bp	(5.4) bp	(4.7) bp

Summary of key takeaways

Returns

• Your 5-year net total return was 9.5%. This was above both the U.S. Public median of 8.7% and the peer median of 9.2%.

Value added

• Your 5-year net value added was 1.7%. This was above both the U.S. Public median of 1.2% and the peer median of 1.2%.

Cost and cost effectiveness

- Your investment cost of 64.2 bps was below your benchmark cost of 69.3 bps. This suggests that your fund was low cost compared to your peers.
- Your fund was below benchmark cost because it paid less than peers for similar services and it had a lower cost implementation style.

Thank you



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ChrisD@cembenchmarking.com CEMbenchmarking.com







Benefits and Actuarial Committee Committee Report to the Board of Trustees November 14, 2024 Page 1 of 2

Report

The Benefits and Actuarial Committee met on November 14, 2024, and took up the following matters:

APPROVAL OF MINUTES

The Committee approved the minutes of its October 16, 2024, meeting.

GABRIEL, ROEDER, SMITH & COMPANY (GRS) 2024 ACTUARIAL VALUATION RESULTS FOR POLITICAL SUBDIVISION RETIREMENT PLANS, THE VIRGINIA LOCAL DISABILITY PROGRAM (VLDP), THE LOCAL HEALTH INSURANCE CREDIT (HIC) PLANS, AND THE LINE OF DUTY ACT (LODA) FUND.

Jim Anderson, Becky Stouffer and Kurt Dosson from the VRS plan actuary, Gabriel, Roeder, Smith & Company (GRS), presented the June 30, 2024, actuarial valuations for the Political Subdivision Plans, the Virginia Local Disability Program (VLDP), Local Health Insurance Credit (HIC) Plans and the Line of Duty Act (LODA) Fund. The VRS actuary conducts annual valuations as of the close of the fiscal year (June 30). In odd-numbered years, the valuations are used to establish employer contribution rates. The results in even-numbered years are shared with the Board of Trustees to inform the Board of any emerging trends or indications of the magnitude and direction of contribution rates.

Similar to the statewide pension plans, the investment gains from the market value return for the total fund of 9.9% exceeded the long-term assumed rate of return of 6.75% for fiscal year 2024, but were partially offset by higher-than-expected cost-of-living increases and salary increases provided during the fiscal year. This resulted in an increase in funded status and decrease in the informational contribution rate for the political subdivision pension plans in aggregate.

The OPEB plans experienced larger increases in funded status due to favorable demographic experience and investment gains. In addition, the HIC plans for Constitutional Officers and Social Services employees received additional cash infusions to help pay down unfunded liabilities. Informational contribution rates trended lower for the OPEB plans compared to the 2023 rate-setting valuations.

The LODA plan is a pay-as-go plan that must collect the funds required to pay the benefits expected to be incurred over the coming year. The informational premium rate is lower than the current LODA rate due in part to a change in methodology with respect recognition of interest on employer contributions as well as favorable demographic experience. Future rates are still expected to increase due to increasing health care costs, an increasing number of beneficiaries and a static or decreasing number of full-time equivalent members over which to spread the premium costs.

GRS will also deliver an abbreviated version of their presentation to the full Board of Trustees.

The Committee recommended approval of the following actions to the full Board of Trustees:

Request for Board Action: The Virginia Retirement System Board of Trustees accepts the June 30, 2024, Actuarial Valuations conducted by the VRS plan actuary, Gabriel, Roeder, Smith & Company, for the (i) Political Subdivision Retirement Plans; (ii) Health Insurance Credit (HIC) Plans for political subdivisions;



Benefits and Actuarial Committee Committee Report to the Board of Trustees November 14, 2024 Page 2 of 2

(iii) State-Funded HIC for constitutional officers, social services employees and registrars; (iv) Virginia Local Disability Program, including Self-Funded Long-Term Care; and (v) Line of Duty Act Fund.

INFORMATION ITEM

Confirmed 2025 B&A Committee Meeting Schedule:

The Committee reviewed the 2025 meeting schedule.

- February 5
- April 15
- June 11
- October 15
- November 12

Submitted to the Board of Trustees on November 14, 2024.

John M. Bennett, Chair Benefits and Actuarial Committee



Accept the Plan Actuary's Valuations as of June 30, 2024, for the Political Subdivision Retirement Plans; the Health Insurance Credit (HIC) Plans for Political Subdivisions; the State-Funded HIC for Constitutional Officers, Social Services Employees, and Registrars; the Virginia Local Disability Program, including the Self-Funded Long-Term Care; and the Line of Duty Act Fund.

Requested Action

The Virginia Retirement System Board of Trustees accepts the June 30, 2024, Actuarial Valuations conducted by the VRS plan actuary, Gabriel, Roeder, Smith & Company, for the (i) Political Subdivision Retirement Plans; (ii) Health Insurance Credit (HIC) Plans for political subdivisions; (iii) State-Funded HIC for constitutional officers, social services employees, and registrars; (iv) Virginia Local Disability Program, including Self-Funded Long-Term Care; and (v) Line of Duty Act Fund.

Description/Background

The VRS plan actuary conducts actuarial valuations annually as of the close of the fiscal year (June 30). The results of the valuations are used to establish employer contribution rates in odd-numbered years. The results in even-numbered years are shared with the Board of Trustees to inform the Board of any emerging trends or indications of the magnitude and direction of contribution rates.

Authority for Requested Action

Code of Virginia § 51.1-124.22(A)(3) authorizes the Board to employ an actuary as its technical advisor for the administration of the Retirement System.

The above action is approved.		
A. Scott Andrews, Chair	Date	
VRS Board of Trustees		





June 30, 2024
Annual Actuarial
Valuation Results

Presented by: Becky Stouffer, ASA, MAAA, FCA and Jim Anderson, FSA, EA, MAAA, FCA



November 14, 2024

Agenda



Big Picture

Highlights of Pension Valuations

Highlights of OPEB Valuations

Appendix







PENSION and Other Post Employment Benefits (OPEB)



Big Picture – November Meeting Content

Pension	Other Post-Employment Benefits (OPEB)
Political Subdivisions	 Health Insurance Credit (HIC) Political Subdivisions Constitutional Officers Social Services Employees Registrars
	Virginia Local Disability ProgramPolitical SubdivisionsTeachers
	Line of Duty Act Fund LODA (separate presentation)



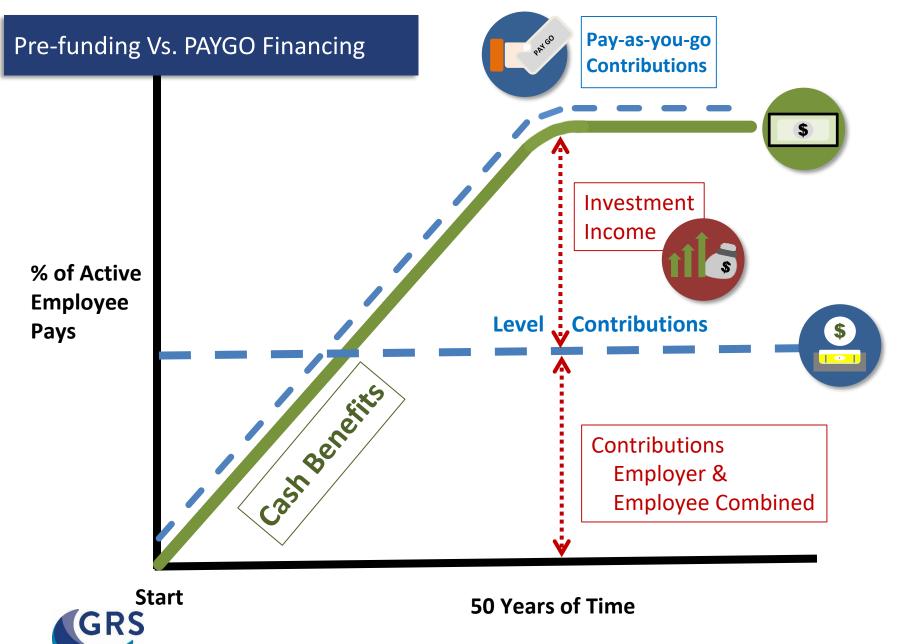
Big Picture: Actuarial Valuation Results

- June 30, 2024 Actuarial Valuations of VRS Pension and OPEB plans are informational
 - Measure funding progress as of June 30, 2024
 - Develop inputs for use in June 30, 2025 valuations

Odd year valuations determine contribution rates for 2 years







Actuarial Valuation Process Statewide Pension and Political Subdivisions

Member Data



955,566 Records

Actuarial Valuation

Financial Data



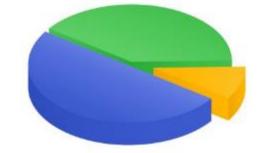
\$ 109.5 Billion
Market Value Assets (MVA)

Plan Provisions





Actuarial Cost Method



Actuarial Assumptions









JUNE 30, 2024 VALUATION RESULTS HIGHLIGHTS



Valuation Results Highlights

- Experience during 2023-2024
 - Gain on assets
 - Loss on pay and COLA
 - Funded status generally increase
 - Contributions generally level
- Over 10 years from 2015
 - Funded status generally increasing
 - More so for HIC

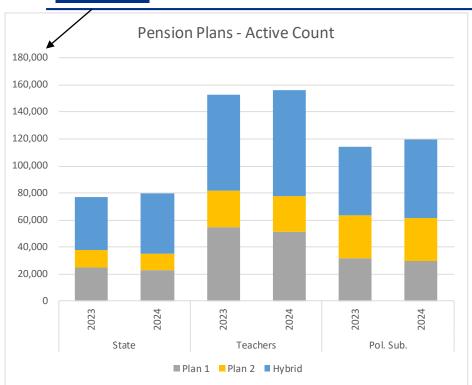


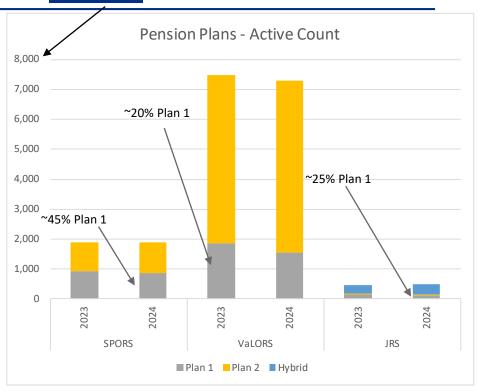
Active Participants at June 30, 2024 (Pension)

				Total	Total	Percent
System	Plan 1	Plan 2	Hybrid	2024	2023	Change
State	22,908	12,305	44,804	80,017	76,876	4.1%
Teachers	51,441	25,981	79,082	156,504	153,107	2.2%
SPORS	869	1,021	-	1,890	1,882	0.4%
VaLORS	1,557	5,750	ı	7,307	7,478	-2.3%
JRS	119	37	315	471	458	2.8%
Pol. Sub.	29,232	32,247	57,982	119,461	114,279	4.5%
Total	106,126	77,341	182,183	365,650	354,080	3.3%



Active Participants at June 30, 2024 - Scale for Large Plans = 22X Scale for Small Plans





	Counts										
System	State	Teachers	Pol. Sub.								
2023	76,876	153,107	114,279								
2024	80,017	156,504	119,461								
% Change	4.1%	2.2%	4.5%								

	Counts										
System	SPORS	VaLORS	JRS								
2023	1,882	7,478	458								
2024	1,890	7,307	471								
% Change	0.4%	-2.3%	2.8%								

In Total, 29% Remain in Plan 1



Actives: Changes in Average Salary

System	2023	2024	Percent Change	% Change Continuing ¹		
State	\$ 70,880	\$ 74,725	5.4%	3.4%		
Teachers	63,137	67,096	6.3%	3.8%		
SPORS	89,591	93,376	4.2%	2.9%		
VaLORS	53,238	55,804	4.8%	2.2%		
JRS	192,994	202,466	4.9%	1.2%		
Pol. Sub.	59,173	62,564	5.7%	3.7%		

¹Actual pay increase over expected pay for continuing actives

Notes:

- 1) Return to Work Payroll for 251 positions (198 Teachers) = \$16 million
- 2) Political Subdivisions had 53 RTW with a total payroll of \$1.3 million



Actuarial Value Assets (AVA) 2024: Political Subdivisions Pension (\$Millions) - 9.9%/8.6% MVA/AVA Return

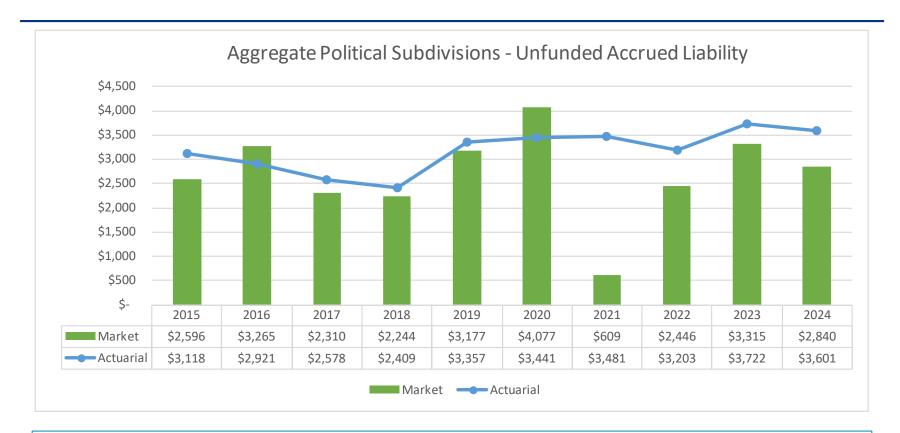
In chart below asset gains are positive, asset losses are negative.

	2024	2025	2026	2027	2028
Actual Investment Return	2,640				
Assumed Investment Return	1,828				
Gain/(Loss) to be Phased-in	811				
Phased-in Recognition -Current year	162	?	?	?	?
-1 st prior year	(13)	162	?	?	?
-2 nd prior year	(360)	(13)	162	?	?
-3 rd prior year	872	(360)	(13)	162	?
-4 th prior year	(203)	872	(360)	(13)	162
Total Recognized Gain/(Loss)	458	661	(211)	149	162

2025-2028: Expect \$0.8 billion in deferred asset GAINS



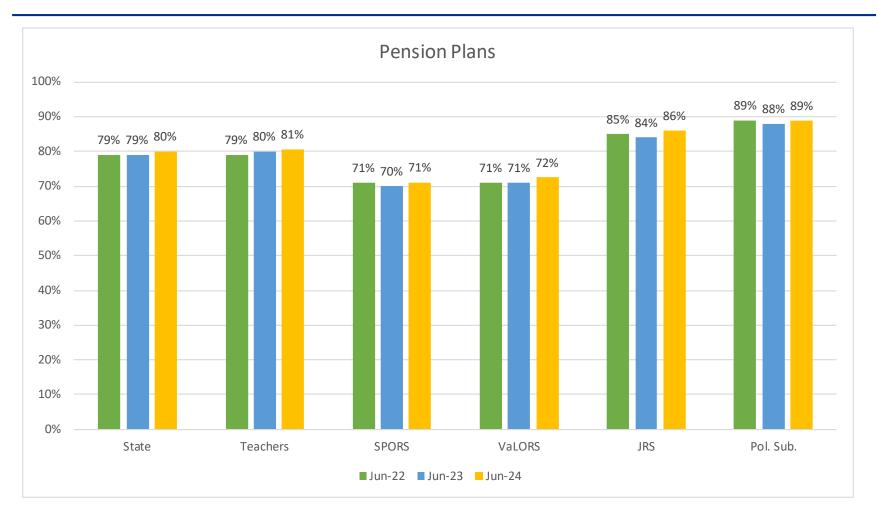
Why We Smooth Asset Returns



If all assumptions are met, unfunded liabilities will trend to Market Value basis over time



Funded Status (AVA) – Pension Plans



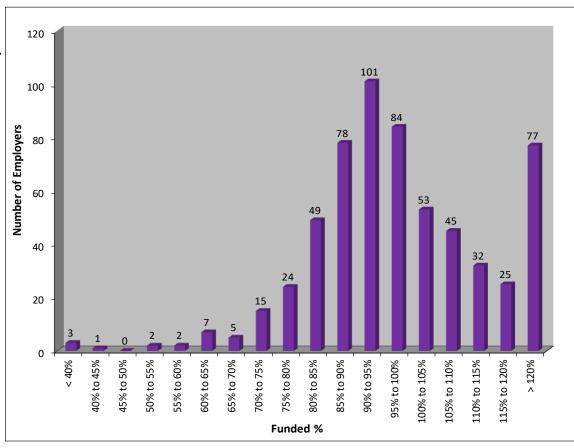


Funded Status (AVA) – Pension Plans, Political Subdivisions

Funded Status as of June 30, 2024 for 603 Employers

Average Funded
Status

96.0%
Pol. Sub. With
no Enhanced
Hazardous Duty



<u>Average Funded</u> Status

87.2%
Pol. Sub. With
Enhanced
Hazardous Duty



Chart shows Funded status distribution, 35 employers <75% to 232 employers > 100% The chart above shows 603 employers; employers with 0 actives are excluded.

Legislative Updates

HB 70/SB 458- effective July 1, 2024, allows
 VRS members in any federally established
 branch of armed services¹ to purchase service
 credit for prior full-time active duty military
 service of at least 180 consecutive days

¹Prior law only included Army, Navy, Air Force, Marines, or Coast Guard



Calculated Employer Contributions

Will vary significantly for System, Plan and Employer based on:

Benefit Features

Demographics

Funded Status

Two Main Components:

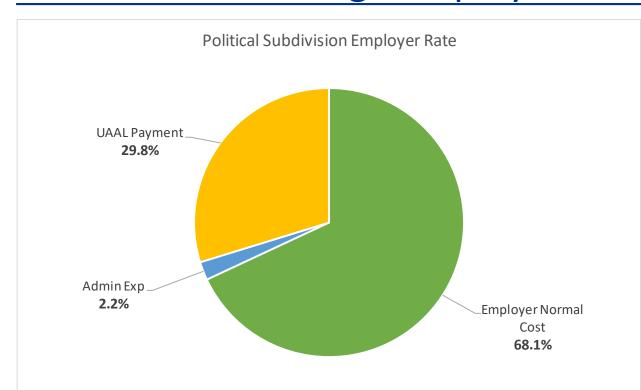


Normal Cost – this represents the cost of the current year benefit earned by each active member

Amortization of Unfunded Liability – uses a systematic method (funding policy) to pay off the unfunded liability for each employer



Calculated Pension Contributions – Political Subdivisions Average Employer



Normal Cost ultimately decreases to Plan 2/Hybrid level

Component	% of Pay			
Employer NC	8.00%			
Admin Exp	0.26%			
UAAL Payment	3.50%			
Total:	11.76%			

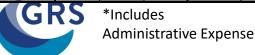
Note: Pol. Sub. Unfunded Actuarial Accrued Liability (UAAL) payment = 29.8% of total Employer contribution, vs. >50% for Statewide pension plans (other than JRS)



Actuarially Determined Employer Contribution Rates – Pension Plans Defined Benefit Only

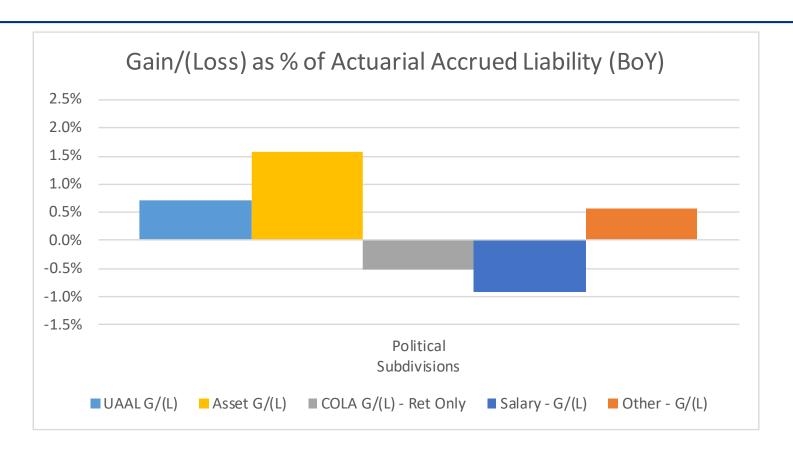


	State		State Teachers				SPORS		VaLORS		JRS			Pol. Sub. Weighted Average				
	2022	2023	2024	2022	2023	2024	2022	2023	2024	2022	2023	2024	2022	2023	2024	2022	2023	2024
Normal Cost*	4.77%	4.65%	4.43%	5.82%	5.96%	5.71%	12.45%	12.64%	12.55%	9.49%	9.27%	9.33%	20.98%	20.74%	19.70%	8.30%	8.40%	8.26%
UAAL Payment	7.28%	7.87%	7.34%	7.45%	8.25%	7.92%	16.43%	18.68%	18.84%	12.43%	13.54%	13.67%	6.13%	9.92%	8.66%	2.77%	3.85%	3.50%
Total	12.05%	12.52%	11.77%	13.27%	14.21%	13.63%	28.88%	31.32%	31.39%	21.92%	22.81%	23.00%	27.11%	30.66%	28.36%	11.07%	12.25%	11.76%



Additional contribution of 1.0%-3.5% of Hybrid payroll also required for Plans with Hybrid benefit tier $P_{\text{Page }90}$

Political Subdivisions Pension: Gain/Loss (%s)



Other – (G)/L includes benefit change and new employer impacts

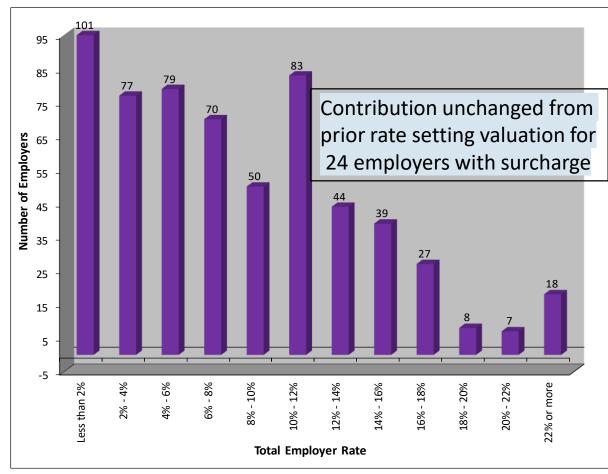


Actuarially Determined Employer Contribution (ADEC) Rates – Political Subdivisions Pension

ADEC Rate as of June 30, 2024 for 603 Employers

Average ADEC Rate

5.48%
Pol. Sub. With no Enhanced
Hazardous Duty



Average ADEC Rate

13.76% Pol. Sub. With

Enhanced
Hazardous Duty



The chart above shows 603 employers; employers with 0 actives are excluded.

Political Subdivisions: Pension Results Commentary

- Liability changes
 - 3 New Political Subdivisions for Pension
 - 24 Employers have surcharge¹
 - 18 Employers had surcharge in 2023 valuation
 - No Employers have additional funding charge²
 - Changes in coverage
 - Salary and COLA experience

¹Additional contribution rate added to developed rate to improve funding level of plan

²Additional contribution rate to allow use of 6.75% investment return as the single equivalent investment return assumption for GASB purposes

Pension Results Commentary

- Demographic changes vary by employer
 - Active population up for Political Subdivisions in total
 - 10 Employers account for 50% of the increase in total active population counts



VRS Additional Funding Provisions – OPEB

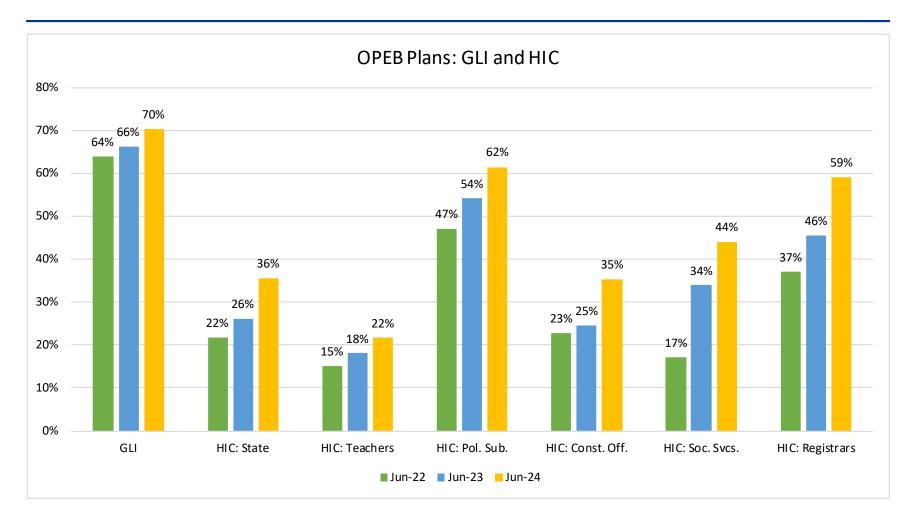
 Additional \$55.1 million contributed from the General Fund to Trust during FY 2024

OPEB Group	Add'l Contrib. 2024	Funded Status Impact	Contrib. Rate Impact
HIC: State	\$52,800,000	4.8%	-0.04%
HIC: C. Off.	\$1,576,017	3.9%	-0.01%
HIC: S. Svcs.	\$723,983	4.9%	-0.01%
TOTAL	\$55,100,000		

Important to get additional funds into OPEB Plans when possible -- Additional \$93.8 million contributed in 2022-2023 for all HIC Groups

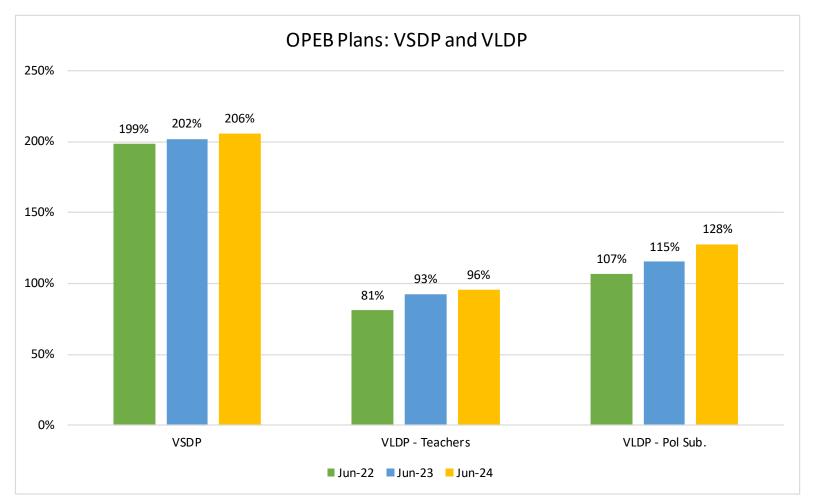


Funded Status (AVA) – OPEB Plans





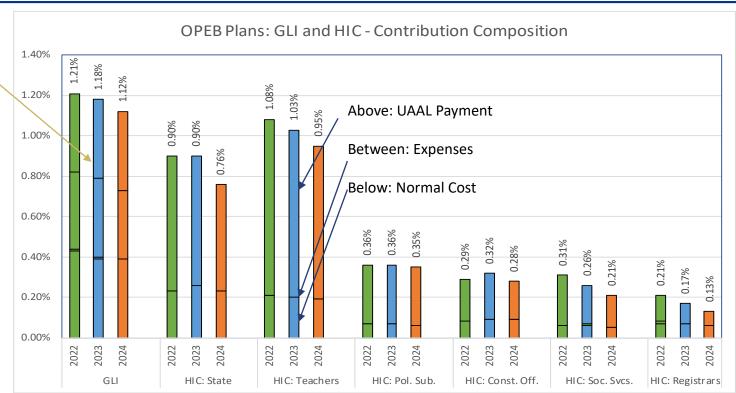
Funded Status (AVA) – OPEB Plans





Actuarially Determined Employer Contribution Rates – OPEB Plans

Note top 1/3 of GLI rate reflects active Life Insurance contribution



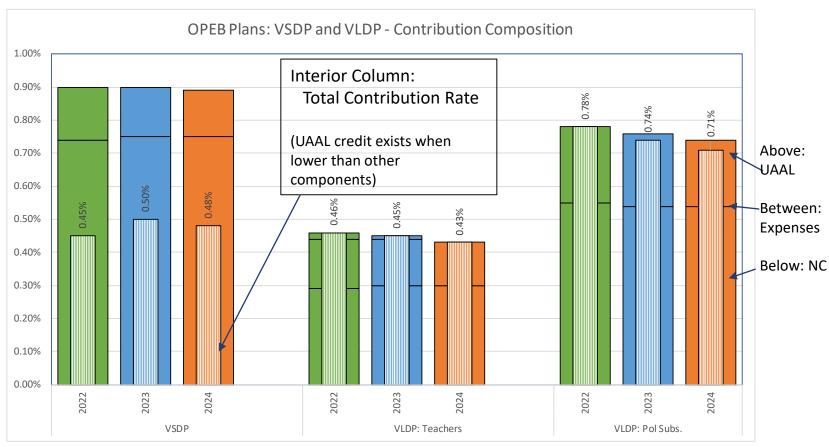
		GLI		Н	IC: State		HI	C: Teache	rs	Н	C: Pol. Sub).	HIC	C: Const. O	ff.	Н	C: Soc. Svc	S.	HI	C: Registra	rs
	2022	2023	2024	2022	2023	2024	2022	2023	2024	2022	2023	2024	2022	2023	2024	2022	2023	2024	2022	2023	2024
Normal Cost*	0.44%	0.40%	0.39%	0.23%	0.26%	0.23%	0.21%	0.20%	0.19%	0.07%	0.07%	0.06%	0.08%	0.09%	0.09%	0.06%	0.07%	0.05%	0.08%	0.07%	0.06%
UAAL Payment^	0.77%	0.78%	0.73%	0.67%	0.64%	0.53%	0.87%	0.83%	0.76%	0.29%	0.29%	0.29%	0.21%	0.23%	0.19%	0.25%	0.19%	0.16%	0.13%	0.10%	0.07%
Total	1.21%	1.18%	1.12%	0.90%	0.90%	0.76%	1.08%	1.03%	0.95%	0.36%	0.36%	0.35%	0.29%	0.32%	0.28%	0.31%	0.26%	0.21%	0.21%	0.17%	0.13%



^{*} Includes Administrative Expense

[^] Includes Active GLI Adjustment

Actuarially Determined Employer Contribution Rates – OPEB Plans



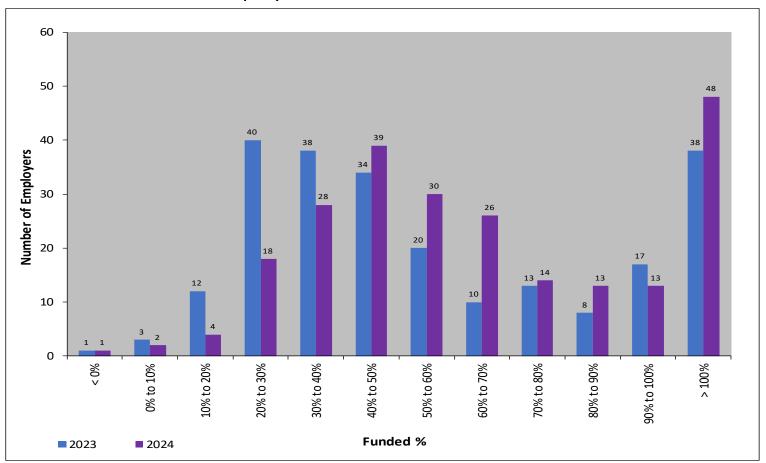


		VSDP		VL	DP: Teach	VLDP: Pol Subs.			
	2022	2023	2024	2022	2023	2024	2022	2023	2024
Normal Cost*	0.90%	0.90%	0.89%	0.44%	0.44%	0.43%	0.78%	0.76%	0.74%
UAAL Payment	-0.45%	-0.40%	-0.41%	0.02%	0.01%	0.00%	0.00%	-0.02%	-0.03%
Total	0.45%	0.50%	0.48%	0.46%	0.45%	0.43%	0.78%	0.74%	0.71%

^{*} Includes Administrative Expense

Funded Status (Two Year Comparison) – OPEB HIC Political Subdivisions

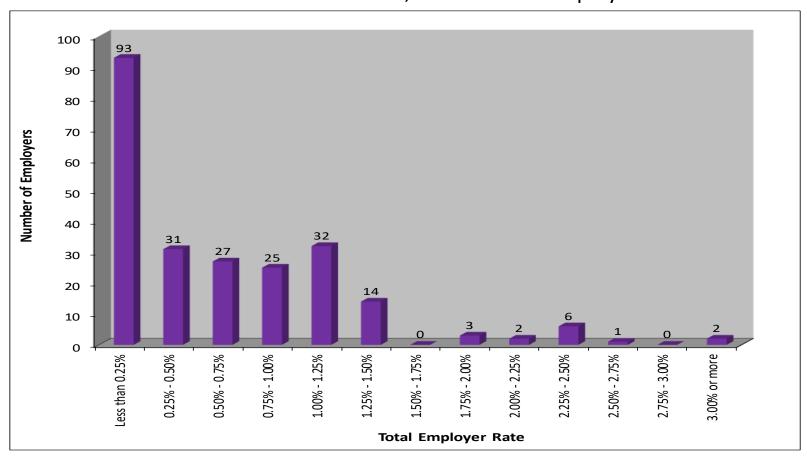
Funded Status for Employers as of June 30, 2024 and June 30, 2023





Actuarially Determined Employer Contribution (ADEC) Rates – OPEB HIC Political Subdivisions

ADEC Rate as of June 30, 2024 for 236 Employers





The chart above shows 236 employers; employers with 0 actives are excluded.

Contribution unchanged from prior rate setting valuation for 149 employers with surcharge

OPEB Results Commentary: HIC Political Subdivisions

 Employers with additional funding charge or surcharge

	2024	2023
Additional Funding Charge	2	3
Surcharge	149	160





1. Increased Funded Status on Actuarial Asset Basis

- Higher than expected returns for 2024 valuations,
- Salary and COLA Losses

2. Contributions

- Pension & OPEB rates are mostly consistent with last year's valuation
- Generally, slightly lower rates than those currently being paid





QUESTIONS



Disclaimers

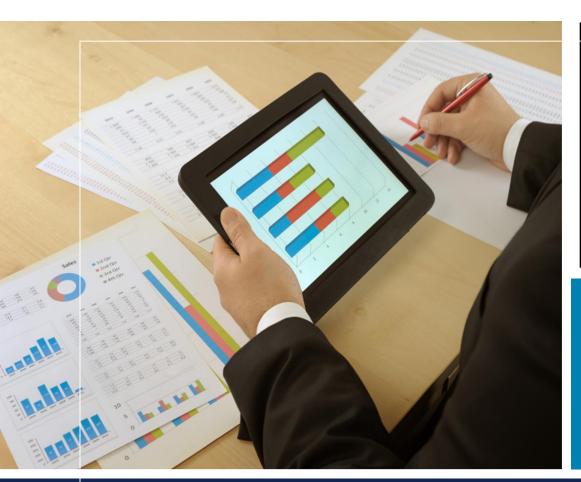
- This presentation expresses the views of the authors and does not necessarily express the views of Gabriel, Roeder, Smith & Company.
- Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.



Disclaimers

- This presentation is intended to be used in conjunction with the forthcoming actuarial valuation reports. This presentation should not be relied on for any purpose other than the purposes described in the valuation reports.
- This presentation shall not be construed to provide tax advice, legal advice or investment advice.
- Jim Anderson and Becky Stouffer are independent of the plan sponsor, are Members of the American Academy of Actuaries (MAAA), and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.







June 30, 2024
Annual Actuarial
Valuation Results –
Line Of Duty Act Fund

Presented by: Becky Stouffer, ASA, MAAA; Kurt Dosson, ASA, MAAA



November 14, 2024

Agenda



Big Picture – Line Of Duty Act Fund

Valuation Highlights

Appendix







Line Of Duty Act Fund



Big Picture: Actuarial Valuation Results

June 30, 2024 LODA Actuarial Valuation develops

- Informational Pay-As-You-Go (PAYGO) rate per Full Time Equivalent (FTE) Employee
- 2. Actuarially Determined Employer Contribution (for accounting purposes only)

Historically, odd year valuations determine LODA PAYGO Rate for 2 years





A Different Approach: LODA Based on PAYGO Financing as required by Code Pay-as-you-go **Contributions** cash Benefits



% of Active

Employee

Payroll

Years of Time

Big Picture: Line Of Duty Act Fund (LODA)

- Pay-As-You-Go Financing
 - Required for participating employer contributions by Section 9.1-400.1 of the Code of Virginia
 - Costs
 - Death benefit payments
 - Health care premium payments Department of Human Resource Management (DHRM)
 - Health Insurance Credit (HIC) reimbursements (used to offset claims)
 - Administrative expenses



Big Picture: Line Of Duty Act Fund (LODA)

- Project benefit payments for future years
 - Plan covers the cost of health care premiums for current beneficiaries
 - Cover the cost of any new claims that are expected to occur during the year (new health care premiums & death claims)
- Set Employer contributions per Full Time Equivalent (FTE) so that
 - Assets sufficient to cover costs for a two-year period with allowance for potential overage

Actuarial Valuation Process Line of Duty Act Fund

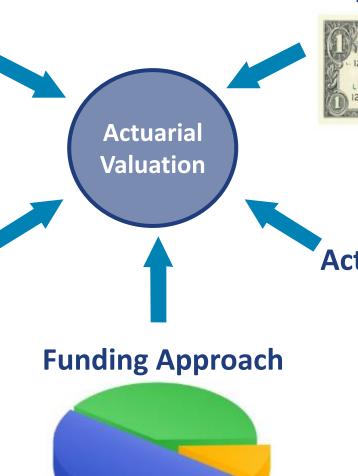
Member Data

18,005 Full Time
Equivalent Employees

Death, Disability, and Health Care Plan Provisions







Financial Data



\$4.8 Million Market Value

Actuarial Assumptions









JUNE 30, 2024 VALUATION RESULTS HIGHLIGHTS



LODA: Valuation Highlights

- LODA FTE contributions in informational year updated in 2024 valuation to include:
 - Favorable fiscal year 2024 financial experience
 - Updated demographic information
 - Re-setting the health care trend assumption
 - Plan design change increasing presumptive death benefit amount from \$25,000 to \$75,000
 - Beginning of year timing of employer contributions



Active Participants

		FY 2023	FY 2024
Employer Group	Weight	Counts	Counts
State/VaLORS/SPORS	100%	9,025	8,731
National Guard			
Full-Time	100%	869	961
Part-Time	10%	761	711
Total State & National Guard		10,655	10,403
Participating Political			
Subdivisions			
Full-Time	100%	7,018	7,119
Volunteers	25%	488	484
Total Pol. Sub. Employees		7,506	7,603
Aggregated Total		18,161	18,005

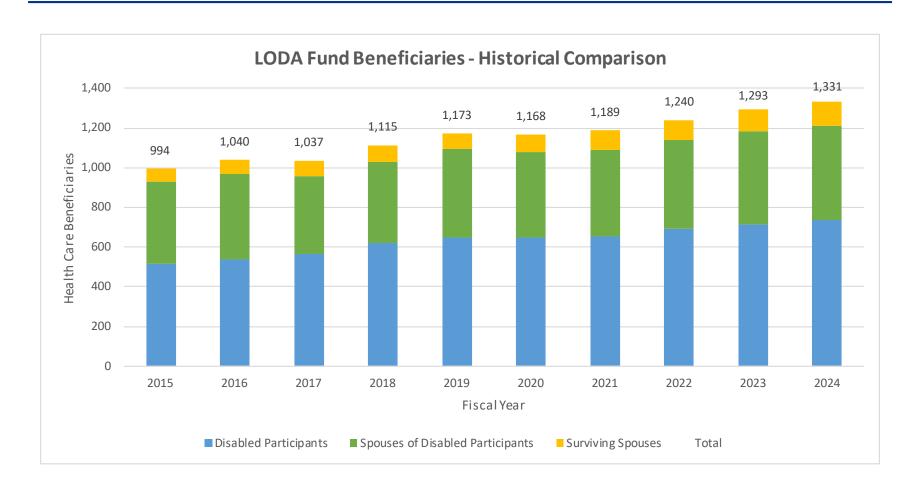


Health Care Beneficiaries

Beneficiary Type	2023	2024
Disabled Participants	713	735
Spouses of Currently		
Disabled Participants	471	477
Surviving Spouses	109	119
Total	1,293	1,331



Health Care Beneficiaries: 10-year History





Health Care Premiums

Health care costs based on premium amounts invoiced by DHRM for those receiving LODA benefits

- Premium amounts reflect recent claims experience of current LODA beneficiaries
- Assumed trend for future health care costs
 - Pre-65: 7.25% initially, decreasing over 9 years to a
 4.25% ultimate rate
 - Post-65: 6.50% initially, decreasing over 9 years to a 4.25% ultimate rate



Initial Monthly Per Capita Costs – Provided by DHRM

		FY 2025		
Membership Level	LODA Plan Current LODA Employment	LODA Plan Former LODA Employment	Medicare Primary ¹	Medicare Part B Premium ²
Single	\$1,149	\$1,186	\$346	\$185.00
Two Person	\$1,961	\$1,995	N/A	N/A
Family (3 or more family members)	\$2,780	\$2,812	N/A	N/A

		FY 2024		
Membership Level	LODA Plan Current LODA Employment	LODA Plan Former LODA Employment	Medicare Primary ¹	Medicare Part B Premium ²
Single	\$1,084	\$1,119	\$302	\$174.70
Two Person	\$1,850	\$1,882	N/A	N/A
Family (3 or more family members)	\$2,623	\$2,653	N/A	N/A

 $^{^{\}mathrm{1}}$ Rate effective January 1 within the Fiscal Year .

- For Non-Medicare members, premiums increased 6.0% vs. 7.25% expected.
- For Medicare eligible members, premiums increased 14.6% vs. 6.50% expected.
- For Medicare eligible members, Medicare Part B premiums increased 5.9% vs. 5.9% expected.



 $^{^{2}}$ Rate effective January 1 following the Fiscal Year .

Initial Monthly Per Capita Costs

Valuation Date	Non-Medicare^	Medicare Primary Including Medicare Part B
June 30, 2019	\$1,137.63	\$406.60
June 30, 2020	\$1,222.51	\$431.50
June 30, 2021	\$1,319.01	\$463.10
June 30, 2022	\$1,413.08	\$460.90
June 30, 2023	\$1,418.67	\$476.70
June 30, 2024	\$1,532.23	\$531.00

^Non-Medicare: Includes the additional cost for coverage of dependent children



Market Value Assets: Year Ending June 30, 2024

ine of Duty Act:	
Beginning balance	5,311,456
Additions:	
Member contributions	
	-
Employer contributions	15,073,974
Health Insurance Credit Offset	500,608
Administrative expenses - Non-Participating	244,500
Total additions	15,819,082
Deductions:	
Line of Duty Act reimbursements	
Health Care Benefits	16,050,576
Death Benefits	427,716
Administrative expenses - Participating	768,804
Administrative expenses - Non-Participating	244,500
Other expenses	_
Total deductions	17,491,596
Investment Income (Net)	1,201,628
Ending balance	4,840,570



LODA fund assets expected to earn 6.75% return

Actual vs. Expected Benefit Payments

FY 2024					
Type of Benefit	Expected	Actual			
Health Insurance Benefits	\$15,993,299	\$16,050,576			
Death Benefits	\$358,348	\$427,716			
HIC Offsets	(\$511,303)	(\$500,608)			
Total	\$15,840,344	\$15,977,684			



Legislation – Workers Compensation

- HB 321; SB 649 Increases the death benefit from presumptive causes (occupational cancer, respiratory disease, or hypertension or heart disease) from \$25,000 to \$75,000
 - ➤ Effective January 1, 2025
- HB 1433 Definition of eligible dependent expanded to include children that were born or adopted prior to the employee's claim approval date
 - ➤ Effective July 1, 2024



Putting It All Together: Development of LODA Employer Costs Per FTE

Combine

- Demographics of group as of June 30, 2024
- Health care premium rates as of June 30, 2024
- Health care trend and other actuarial assumptions
- Health Insurance Credit (HIC) Program
 Reimbursements
- Administrative Expenses
 - Net fiscal year 2024 amount is \$768,804, assumed to increase at 3% per annum for future years



Putting It All Together: Fiscal Years 2025-2026

	FY 2025		FY 2026	
FTE Employees		18,005		18,005
Employer Contributions ¹	\$	18,291,248	\$	18,275,177
Benefit Costs		(17,794,540)		(20,265,600)
Administrative Expenses		(791,868)		(815,624)
Investment Income		934,106		891,950
Net Cash Flow		638,946		(1,914,097)
End of Year Position ²		5,479,517		3,565,420



¹ Based on known FY 2025 invoiced amount and \$1,015/FTE for FY 2026

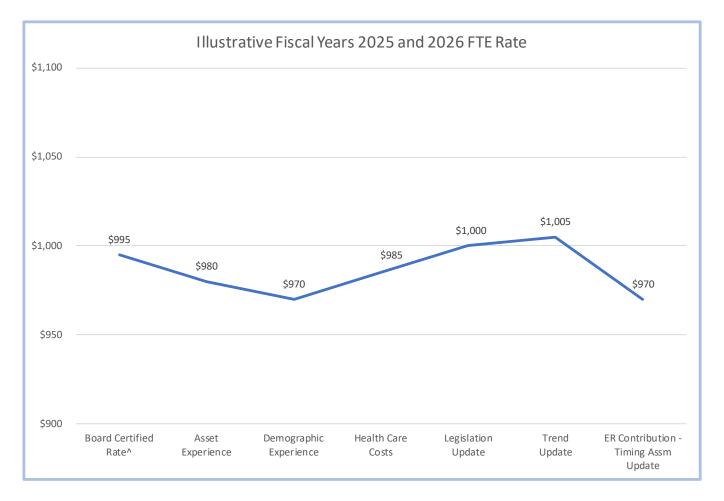
² FYE 2026 target of one month claim reserve was originally set equal to \$1,700,000

Putting It All Together: LODA Rate History

Valuation Date	Fiscal Year	Board Certified Rate	Adjusted Rate	Informational Rate
6/30/2024	2026	\$995.00	\$1,015.00	\$970.00
6/30/2023	2025	\$995.00	\$1,015.00	N/A
6/30/2022	2024	\$681.84	\$830.00	\$732.57
6/30/2021	2023	\$681.84	N/A	N/A
6/30/2020	2022	\$695.18	\$722.55	\$758.03
6/30/2019	2021	\$695.18	\$717.31	N/A



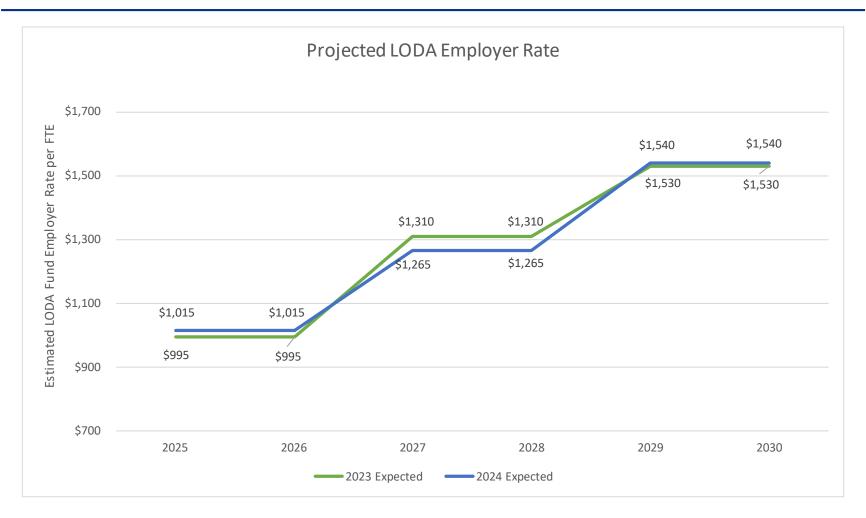
Putting it All Together: Reflecting Fiscal Year 2024 Experience





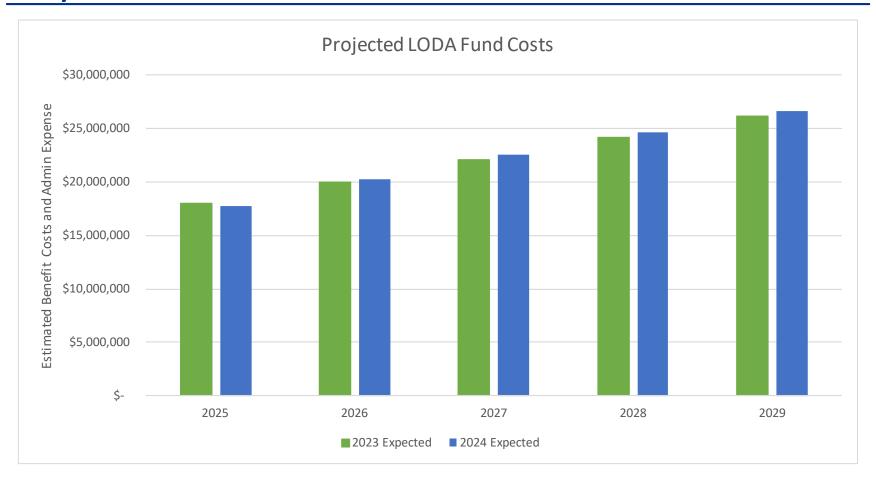
^Board certified rate adjusted by HB 30 to \$1,015 to account for the increase in presumptive death benefit amounts.

Putting It All Together





Putting It All Together: Projected Benefit Payments





LODA: Conclusions

- LODA Fund contributions are likely to increase, due to:
 - PAYGO financing approach
 - Health care inflation
 - Plan design changes
 - Increasing number of beneficiaries
 - Static/Decreasing FTE employee count





QUESTIONS



Disclaimers

- This presentation expresses the views of the authors and does not necessarily express the views of Gabriel, Roeder, Smith & Company.
- Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.



Disclaimers

- This presentation is intended to be used in conjunction with the forthcoming actuarial valuation reports. This presentation should not be relied on for any purpose other than the purposes described in the valuation reports.
- This presentation shall not be construed to provide tax advice, legal advice or investment advice.
- Becky Stouffer and Kurt Dosson are independent of the plan sponsor, are Members of the American Academy of Actuaries (MAAA), and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.



MEMORANDUM

DATE: November 14, 2024

TO: VRS Board of Trustees

Andrew H. Junkin, Chief Investment Officer

FROM: VRS Governance Team

SUBJECT: Fiscal Year 2024 Corporate Governance Report

This memorandum will serve as the Corporate Governance Report for Fiscal Year 2024. In February 2024, The Board of Trustees adopted a revised Proxy Voting Policy and a revised Litigation Policy (see Exhibits 1 and 2). The guiding principle for proxy voting and securities litigation activity is an emphasis on fiduciary responsibility, only taking actions that are in the best interest of the plan's participants and beneficiaries. The Proxy Voting Policy mandates that a proxy voting provider vote all proxies with allowable exceptions including comingled or mutual funds and certain separate accounts where proxy voting is part of the firm's investment strategy.

Proxy Voting

Institutional Shareholder Services, Inc. (ISS) continues to be the proxy research and implementation provider for VRS. ISS is currently owned by Deutsche Börse Group, a German financial marketplace exchange that offers listing and trading services. In November 2020, Deutsche Börse acquired a majority stake in ISS from private equity firm Genstar Capital. ISS covers approximately 45,000 meetings annually in over 115 global capital markets with its 3,200 employees that operate in 25 global locations in 15 countries.

During FY2024, staff reviewed and evaluated the services provided by ISS and determined that these services continue to meet the needs of VRS. On September 1st, 2023, VRS transitioned from the ISS Standard Benchmark Voting Policy to the ISS Global Board-Aligned Voting Policy in both the Defined Benefit accounts that ISS votes for VRS and for Defined Contribution accounts at BlackRock (through voting choice) where available. The ISS Global Board-Aligned Proxy Voting Guidelines for the United States is included in Exhibit 3.

As of June 30, 2024, seven out of thirteen of Public Equity's external traditional mandates used ISS for proxy voting. Including internal mandates, ISS handled the proxies for 64% of Public Equity's market value. In total, ISS voted 6,468 ballots for VRS in FY2024. Managers who do not use the ISS proxy voting policy selected by VRS are noted in Exhibit 4. These managers are either in commingled funds or managers that consider this responsibility a part of their investment management process.

Securities Litigation

Under independent authority granted to VRS in the Appropriation Act to enter into agreements to seek legal advice related to its investments outside the OAG appointment process, VRS currently has agreements with ten law firms (listed in Exhibit 5) to provide securities litigation services. The firms were appointed after a Solicitation for Proposal process conducted in 2023. The firms' appointments were effective December 1, 2023, and each firm's agreement has a term of five years, with automatic renewals for up to four additional three-year terms unless terminated by written notice by either VRS or the law firm.

The Office of the Attorney General (OAG) appointed two firms (Kessler Topaz Meltzer & Check, LLP and Labaton Sucharow LLP) to provide domestic securities litigation services to VRS for a period beginning December 1, 2022, and running through November 30, 2024.

The firms work closely with VRS' custodians – Bank of New York Mellon, Goldman Sachs, and State Street Bank & Trust – to monitor the VRS investment portfolio to:

- Inform VRS about newly filed securities class actions and whether and to what extent VRS has sustained a loss with respect to the affected securities;
- Inform VRS about settled or adjudicated securities class actions; and
- Provide legal advice and representation about prosecution of securities claims.

VRS has not been the lead plaintiff in any U.S. securities litigation matters other than Escala in 2006 and MF Global in 2012, but VRS continues to participate monetarily in the settlement of U.S. class action litigation by filing proofs of claim, monitoring payments, etc.

Bank of New York Mellon reported that VRS received class action proceeds totaling \$2,668,354 during FY2024 on behalf of the defined benefit plan. These proceeds were related to separate accounts where Bank of New York Mellon serves as the custodian. Investments in traditional equity accounts with other custodial or prime broker relationships received class action proceeds totaling \$306,476 on behalf of the defined benefit plan. BlackRock reported as a unit holder of various BlackRock collective trust funds, the VRS defined contribution accounts pro-rata share of class action proceeds totaled \$136,624 during FY2024.

Since the Supreme Court case of *Morrison v. National Australia Bank Ltd.*, 561 U.S. 247 (2010), investors such as VRS have not had the protection of the U.S. securities laws if the securities were purchased on a foreign exchange. Given the realities of global securities litigation after Morrison, VRS continues to adapt to the new and varying challenges of monitoring its portfolio to ensure that non-U.S. opportunities to recover assets based on securities fraud are not lost. For example, with the assistance of liaison counsel, VRS takes a conservative approach by participating in cases in select foreign

jurisdictions where such participation is similar to the claims filing process in domestic actions. Also, VRS only participates in foreign securities litigation in those jurisdictions that either do not involve a risk that VRS would be liable for expenses if the litigation is unsuccessful (i.e., no "loser pays" rule) or where the litigation funder fully indemnifies VRS for any potential "loser pays" costs. In such cases, VRS assumes a passive role in its participation in the case after an initial filing of transactional data supporting the VRS claim.

VRS joined eight non-U.S. cases and received approximately \$150,000 in proceeds from non-U.S. cases during FY2024, and we are participating passively in 19 other non-U.S. cases for which the recovery amounts have not yet been determined.

Investor Organizations

VRS continues to be a non-voting member of the Council of Institutional Investors (CII) and staff continues to view the organization as a cost-effective resource for research on corporate governance issues. CII members consist of representatives from public and private pension plans, foundations, endowments, mutual funds, insurance companies, and international institutional investors with member assets over three trillion dollars. The organization is well respected among regulatory bodies and government leaders. The diversity of its membership affords thought provoking debate on corporate governance issues. Because of the depth of its membership, quality of data, and timely dissemination of information, staff still believes that participation in other corporate governance organizations is not necessary at this time.

BOARD OF TRUSTEES' PROXY VOTING POLICY

GUIDING PRINCIPLE

The guiding principle for the Virginia Retirement System's ("VRS") proxy voting is fiduciary responsibility, only taking actions that are in the best interest of the plan's participants and beneficiaries.

I. POLICY STATEMENT

A. PROXY VOTING

It is the policy of VRS to review all proxy issues carefully and to vote them in the best interest of the participants and beneficiaries of the fund. The Board should review a report on VRS proxy voting from time to time, which includes an evaluation of any outside Proxy Voting Service Provider.

B. VRS AS LONG-TERM INVESTOR

VRS should act like an owner of companies in which it invests by encouraging long-term value creation. However, the costs of becoming an active investor must be considered. VRS should always seek cost-effective means for acting as an owner. VRS can share the costs of any shareholder activism by joining organizations made up of other similar institutional investors who are also concerned about creating and improving economic value for shareholders.

IL GUIDELINES

A. PROXY VOTING

VRS should contract out the development of proxy voting positions to a Proxy Voting Service Provider. The decision by VRS staff to hire an outside Proxy Voting Service Provider should be based on a thorough review of the provider's proxy voting policies. These proxy voting policies must be based on sound economic analysis and research of proxy issues and driven solely by the objective of enhancing and protecting shareholder returns. VRS staff should review and evaluate the Proxy Voting Service Provider used by VRS from time to time.

Generally, VRS policy mandates that the Proxy Voting Service Provider vote all proxies. Exceptions to this policy include commingled or mutual funds where proxy policies are part of the fund documentation and certain separate accounts where proxy voting is part of the firm's investment strategy. VRS staff should review the proxy voting policies of such managers for overall reasonableness and should use the results of this review as a manager evaluation criterion.

VRS staff should provide to the Board from time to time a review and evaluation of the

Proxy Voting Policy Page 1 of 2 Revised: 02/08/2024 VRS Proxy Voting Service Provider.

B. VRS AS LONG-TERM INVESTOR

It is expected that VRS will align itself with certain oversight organizations with an eye toward creating and improving economic value for shareholders. This will provide VRS with access to multiple, cost-effective tools for promoting good corporate governance at portfolio companies and for monitoring regulatory organizations such as the Securities and Exchange Commission. Moreover, membership will provide information and analysis about corporate governance issues, best practices and solutions going forward.

Proxy Voting Policy Page 2 of 2 Revised: 02/08/2024

BOARD OF TRUSTEES' LITIGATION POLICY

GUIDING PRINCIPLE

The guiding principle for the Virginia Retirement System's ("VRS") proxy voting and litigation activity is fiduciary responsibility, only taking actions that are in the best interest of the plan's participants and beneficiaries.

I. POLICY STATEMENT

A. VRS AS LONG-TERM INVESTOR

VRS should act like an owner of companies in which it invests by encouraging long-term value creation. However, the costs of becoming an active investor must be considered. VRS should always seek cost-effective means for acting as an owner. VRS can share the costs of any litigation by joining organizations made up of other similar institutional investors who are also concerned about creating and improving economic value for shareholders.

B. LITIGATION

Other than cases brought under the Virginia Administrative Process Act,¹ the most common type of litigation that affects VRS directly is securities litigation class actions for investments in which VRS has incurred a loss. From time to time, other types of litigation will arise, including cases where VRS is a defendant and cases brought under the Virginia Fraud Against Taxpayers Act (*Code of Virginia* § 8.01-216.1 et seq.). While VRS acknowledges that there are situations that may give rise to a fiduciary duty to pursue legal action on its own to recover on a claim, VRS also places significant weight on the fact that most (if not all) of these domestic claims will be prosecuted by class action attorneys on behalf of a multitude of institutional investors whether or not VRS undertakes active involvement in the litigation. Consequently, the default position for VRS in connection with domestic securities litigation is to simply file claims in connection with the settlement of securities litigation class action matters based on VRS holdings in the affected securities.

VRS will consider active involvement in securities litigation typically in those cases where (i) VRS has experienced a significant loss related to illegal conduct, fraud, or willful wrongdoing, (ii) active involvement could provide added value to VRS (e.g., in the form of a higher recovery than if VRS was not involved), either in the specific case or on a longer-term, portfolio-wide basis, or (iii) in the case of foreign litigation, active involvement is the only avenue for recovery. For the purposes of this policy and as a general guideline, a loss is

Litigation Policy Page 1 of 7 Revised: 02/08/2024

¹ Article V, section A (20) of the Board Governance Policy delegates authority to the Director to issue final case decisions regarding applications for disability retirement and other matters that have been appealed pursuant to the Administrative Process Act.

significant when it exceeds three basis points of the total fund value ("Loss Threshold"). The decision to become actively involved in any securities litigation requires a balancing of the costs and benefits involved.

1. Domestic Securities Litigation

In considering whether to become actively involved in domestic securities litigation, VRS will also assess the long-term consequences of litigation as well as the impact of litigation on staff productivity. VRS will appoint outside counsel with expertise in securities litigation to assist in determining whether fraud or willful wrongdoing has occurred in connection with the acquisition or ownership of its investments. Outside counsel will identify significant cases that should be brought to the Board's attention and, if the Board decides to become actively involved in the case, will help evaluate an appropriate litigation strategy.²

2. Foreign Securities Litigation

The landscape of United States securities laws drastically changed with the Supreme Court decision in *Morrison v. National Australia Bank Ltd.*, 561 U.S. 247 (2010). Under *Morrison*, investors no longer have the protection of the U.S. securities laws if the securities were purchased on a foreign exchange. After the *Morrison* decision, it is no longer possible to pursue a recovery in securities litigation in a foreign jurisdiction as a "free rider" as part of a class action, and an affirmative decision to participate in the class is typically required. Generally, in cases pending in foreign jurisdictions, VRS will only consider recovery methods that do not involve any risk that VRS would be liable for any expenses if the litigation were unsuccessful. For example, in most cases, VRS would not consider pursuing recovery in a foreign jurisdiction where the losing party in litigation pays the prevailing party's fees and costs. However, VRS will consider such foreign litigation if there is insurance or other indemnification protections in place to cover the potential "loser pays" liability.

3. Other Litigation

On relatively rare occasions, other types of litigation affect VRS that are not related to securities litigation for investments in which VRS has incurred a loss. For example, VRS may be a defendant in litigation, and the outcome of the litigation could affect the assets in the trust fund. While these types of cases are relatively rare and arise under unique facts and circumstances, the same guiding principle applies to the strategic decisions that may be involved in their resolution.

II. GUIDELINES

A. VRS AS LONG-TERM INVESTOR

It is expected that VRS will align itself with certain oversight organizations with an eye

Litigation Policy Page 2 of 7 Revised: 02/08/2024

² See "Selection of Counsel" in section II(C)(2).

toward creating and improving economic value for shareholders. This will provide VRS with access to multiple, cost-effective tools for promoting good corporate governance at portfolio companies and for monitoring regulatory organizations such as the Securities and Exchange Commission. Moreover, membership will provide information and analysis about potential litigation, corporate governance issues, and best practices and solutions going forward.

B. LITIGATION

1. Filing Proofs of Claim

The VRS custodial bank is responsible for filing all proofs of claim, including the necessary supporting documents and information, in every securities class action pending in the U.S. in which VRS has an interest (the "Claims Filing"). To memorialize the custodian's Claims Filing responsibilities, the Chief Investment Officer ("CIO") shall prepare and revise, as appropriate, a statement of work to be included with the custodial agreement setting out formal Claims Filing procedures for the custodial bank to follow. These procedures shall include:

- i. Identifying and reviewing all class action recoveries for which VRS is eligible (whether by settlement or trial);
- ii. Providing timely notice of each settlement recovery, with sufficient time to allow VRS to opt out;
- iii. Filing complete and accurate proof of claim forms in a timely fashion on behalf of VRS;
- iv. Providing quarterly reports regarding these efforts; and
- v. Providing quarterly reports identifying all securities litigation proceeds recovered by VRS directly or on its behalf.

Alternatively, the VRS Board may elect to use a third-party vendor to be responsible for the Claims Filing activities.

2. Selection of Counsel

VRS has undertaken an open procurement process to select a number of outside counsel firms to provide legal advice related to investments and has entered into contractual agreements with each of the firms. Pursuant to this policy, VRS staff is authorized to select which of these firms will assist with a specific action depending on the facts and circumstances of each case. Criteria may include the firm's expertise in a particular area of law, the firm's analysis of a specific case, the firm's fee structure, or the firm's recommended strategy.

3. Class Actions - Securities Listed on a Domestic Exchange

The Board desires to create an evaluation policy that provides guidance regarding when and how VRS will become actively involved in domestic securities litigation, including seeking lead plaintiff status. The VRS Board adopts this policy to place itself, the CIO and the Director, with the advice of counsel, in the best position to identify, protect, and serve the best interests of VRS.

Litigation Policy Page 3 of 7 Revised: 02/08/2024 The following is an outline of the procedures to assist in decisions regarding domestic securities litigation issues.

i. Monitoring and Evaluation Procedures

VRS may retain a vendor specializing in identifying and analyzing potential and existing securities cases to perform this function, and to report its findings on a timely basis. VRS also retains law firms as outside counsel to monitor and advise VRS of recently filed class actions that appear to have merit and for which VRS has sustained a loss that (i) exceeds its Loss Threshold or (ii) is substantial and involves unique factors justifying the involvement of VRS regardless of the Loss Threshold.

When a case meets the Loss Threshold for active involvement by VRS, VRS staff, in consultation with the Office of the Attorney General ("OAG") and outside counsel, shall evaluate whether the class action is meritorious and deserves closer examination. The evaluation shall include a review of available information regarding the lawsuit before considering whether to seek lead plaintiff status or embark on some other active claim management strategy (e.g., opting out of the class and pursuing a separate claim).

ii. Decision-making Process

Absent a loss exceeding the Loss Threshold or unusual and compelling circumstances, the VRS Board will not consider pursuing any active claim management strategy for any given case without the concurrence of OAG. VRS staff should work with outside counsel to evaluate securities litigation options available to VRS on a case-by-case basis. VRS may also engage other vendors to monitor and identify potential securities litigation cases. These outside entities should forward material pertaining to such cases to VRS for further review and evaluation under the guidance contained in this policy.

The VRS Board will only consider becoming actively involved in domestic securities litigation in accordance with the "Monitoring and Evaluation Procedures" described above.

If these initial criteria are met, VRS staff should coordinate its analysis with outside counsel to ensure that the situation meets the VRS criteria. If so, VRS staff and outside counsel should forward relevant information and a recommended course of legal action to VRS investment staff for review and evaluation consistent with the guidance contained in this policy. Following this review and evaluation, VRS staff should only forward a recommendation to pursue legal action to the VRS Board for those cases that are considered appropriate under this policy. A case that does not exceed the Loss Threshold is presumed not to be an appropriate case to forward to the VRS Board absent unusual or compelling circumstances.

In most cases, decisions regarding whether to become actively involved a given domestic securities case must be submitted, in advance, to the VRS Board at a regular meeting or, where immediate action is necessary, at a special meeting. However, where it is determined that immediate action is required in order to preserve the rights or interests of VRS by such

Litigation Policy Page 4 of 7 Revised: 02/08/2024 involvement, and the matter cannot be timely presented at a regular or special meeting, or where a quorum cannot be reached at such meeting, the decision may be made, with the advice of counsel, by the Director and CIO. The VRS Board shall be notified and provided a summary of the action taken by the Director and CIO as soon as practicable upon the exercise of such authority. This procedure may also be used for other time-sensitive decisions related to securities litigation where it is deemed in the best interests of the plan to do so, to the extent such decisions are in conformance with this policy.

If the VRS Board (or its designees under this policy) approves a recommendation to become actively involved in a given domestic securities case, VRS will work with outside counsel to pursue an agreed-upon litigation or active claim management strategy.

The VRS Board should receive an annual report on the total asset recoveries from securities litigation received during the year, including a status report on any litigation in which VRS is the lead plaintiff.

iii. Settlement or Other Disposition/Resolution

In most cases, decisions to settle a case or to pursue other disposition or resolution in a given case will be submitted, in advance, to the VRS Board at a regular meeting or, where immediate action is necessary, at a special meeting. However, where it is determined that immediate action is required in order to preserve the rights or interests of VRS by such involvement, and the matter cannot be timely presented at a regular or special meeting, or where a quorum cannot be reached at such meeting, the decision may be made, with the advice of counsel, by the Director and CIO. The VRS Board shall be notified and provided a summary of the action taken by the Director and CIO as soon as practicable upon the exercise of such authority.

4. Class Actions - Securities Listed on a Foreign Exchange

Given the structure of global securities litigation after *Morrison*, VRS must monitor its portfolio to ensure that opportunities to recover assets based on securities fraud are not lost. This includes the analysis of whether to participate in an action in a foreign jurisdiction or to bring a state law action.

i. Participation in a Foreign Action

Unlike the class action process in the United States where investors can remain absent, receive notice of a settlement, and then decide to file a proof of claim or opt-out of the class action case, foreign actions generally require investors to join as named plaintiffs or "opt-in" at the commencement of the case. This "opt-in" process will require affirmative decisions by VRS early in the process to join the case (and sometimes prior to the case being filed) to recover anything on its losses.

In general, VRS will only participate in foreign securities litigation when participation does not involve a risk that VRS would be liable for expenses if the litigation is unsuccessful

Litigation Policy Page 5 of 7 Revised: 02/08/2024 (e.g., the "loser pays" risk is assumed by a third party), and VRS could assume a passive role in its participation in the case after an initial filing of transactional data supporting the VRS claim. Under those circumstances, the Loss Threshold does not come into play as the only way for VRS to participate in a foreign case to maximize its potential recovery is to take affirmative action.

VRS staff should obtain assurances and recommendations from its outside counsel and the OAG in the review and evaluation of foreign actions. In cases where there is no risk that VRS will be liable for expenses in the event of a loss, the decision to participate in a foreign action may be made, with the advice of counsel, by the Director and CIO. The VRS Board shall be notified as soon as practicable upon the exercise of such authority, and shall receive a summary of the action. Consistent with the *Code of Virginia*, VRS staff will coordinate its efforts with OAG or the Governor's Office as appropriate under the circumstances.

ii. Participation in State Law Actions

Another option that is sometimes available with a foreign loss is to bring an action under state law in the United States. Because there are numerous issues that must be considered beforehand, the VRS Board should consider an action under state law only under very rare circumstances and after extensive consultation with staff, OAG, and outside counsel. In most cases, decisions regarding bringing a state law action related to a given foreign case will be submitted, in advance, to the VRS Board at a regular meeting or, where immediate action is necessary, at a special meeting. However, where it is determined that immediate action is required in order to preserve the rights or interests of VRS by such involvement, and the matter cannot be timely presented at a regular or special meeting, or where a quorum cannot be reached at such meeting, the decision may be made, with the advice of counsel, by the Director and CIO. The VRS Board shall be notified as soon as practicable upon the exercise of such authority, and shall receive a summary of the action.

iii. Settlement or Other Disposition/Resolution

In most cases, decisions to settle a case or to pursue other disposition or resolution in a given case will be submitted, in advance, to the VRS Board at a regular meeting or, where immediate action is necessary, at a special meeting. However, where it is determined that immediate action is required in order to preserve the rights or interests of VRS by such settlement or other disposition, and the matter cannot be timely presented at a regular or special meeting, or where a quorum cannot be reached at such meeting, the decision may be made, with the advice of counsel, by the Director and CIO. The VRS Board shall be notified as soon as practicable upon the exercise of such authority, and shall receive a summary of the action.

iv. Monitoring Procedures

VRS recognizes the importance of developing a protocol to stay informed and make prudent decisions relating to its involvement in foreign actions. VRS will use outside counsel and other entities to assist in monitoring foreign actions. This will ensure that VRS has the greatest possible visibility into applicable deadlines so VRS can make a timely and informed decision on whether to participate in a given foreign action and in what manner such

Litigation Policy Page 6 of 7 Revised: 02/08/2024 participation will occur.

The VRS Board should receive an annual report on the total asset recoveries from foreign securities litigation received during the year.

5. Other Litigation

In all other types of litigation, with the exception of cases under the Administrative Process Act, such as those cases where VRS is a defendant and settlement negotiations may be ongoing, VRS staff will submit recommendations for actions (e.g., approval of a settlement), in advance, to the VRS Board at a regular meeting or, where immediate action is necessary, at a special meeting. However, where it is determined that immediate action is required in order to preserve the rights or interests of VRS, and the matter cannot be timely presented at a regular or special meeting, or where a quorum cannot be reached at such meeting, the Director and CIO, with the advice of counsel, are authorized to make the decision. The VRS Board shall be notified as soon as practicable upon the exercise of such authority, and shall receive a summary of the action. Consistent with the Code of Virginia, VRS staff will coordinate its efforts with OAG or the Governor's Office as appropriate under the circumstances.

III. **INTERPRETATION**

The Board of Trustees intends that this Policy should be construed broadly to provide the flexibility necessary for VRS to take immediate action where it is required to protect the best interests of the Fund's members, retirees and beneficiaries. In all cases, any such action must be reported to the Board at the earliest practicable opportunity and the Board shall receive a summary of the action.

> Litigation Policy Page 7 of 7 Revised: 02/08/2024



UNITED STATES

GLOBAL BOARD-ALIGNED PROXY VOTING GUIDELINES

2024 Policy Recommendations

Published January 2024

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Introduction

ISS' Global Board-Aligned Policy is designed to enable subscribing investors to vote in a manner that upholds foundational corporate governance principles as a means of protecting and maximizing their investments, whilst generally aligning with issuers' board recommendations for voting on environmental and social matters.

On matters of corporate governance, executive compensation, and corporate structure, the Global Board-Aligned Policy guidelines are focused on widely accepted good standards of corporate governance and shareholder rights protection, and on the creation and preservation of economic value. On environmental or social matters, the Global Board-Aligned Policy will generally be in line with the board's recommendations, with support limited to circumstances where it is considered that greater disclosure will directly enhance or protect shareholder value and is reflective of a clearly established reporting standard in the market. Details are as further described in these guidelines.

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1. Board of Directors

Voting on Director Nominees in Uncontested Elections

Four fundamental principles apply when determining votes on director nominees:

Independence: Boards should be sufficiently independent from management (and significant shareholders) to ensure that they are able and motivated to effectively supervise management's performance for the benefit of all shareholders, including in setting and monitoring the execution of corporate strategy, with appropriate use of shareholder capital, and in setting and monitoring executive compensation programs that support that strategy. The chair of the board should ideally be an independent director, and all boards should have an independent leadership position or a similar role in order to help provide appropriate counterbalance to executive management, as well as having sufficiently independent committees that focus on key governance concerns such as audit, compensation, and nomination of directors.

Composition: Companies should ensure that directors add value to the board through their specific skills and expertise and by having sufficient time and commitment to serve effectively. Boards should be of a size appropriate to accommodate diversity, expertise, and independence, while ensuring active and collaborative participation by all members. Boards should be sufficiently diverse to ensure consideration of a wide range of perspectives.

Responsiveness: Directors should respond to investor input, such as that expressed through significant opposition to management proposals, significant support for shareholder proposals (whether binding or non-binding), and tender offers where a majority of shares are tendered.

Accountability: Boards should be sufficiently accountable to shareholders, including through transparency of the company's governance practices and regular board elections, by the provision of sufficient information for shareholders to be able to assess directors and board composition, and through the ability of shareholders to remove directors.

General Recommendation: Generally vote for director nominees, except under the following circumstances (with new nominees¹ considered on case-by-case basis):

Independence

Vote against² or withhold from non-independent directors (Executive Directors and Non-Independent Non-Executive Directors per <u>ISS' Classification of Directors</u>) when:

- Independent directors comprise 50 percent or less of the board;
- The non-independent director serves on the audit, compensation, or nominating committee;
- The company lacks an audit, compensation, or nominating committee so that the full board functions as that committee; or
- The company lacks a formal nominating committee, even if the board attests that the independent directors fulfill the functions of such a committee.

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¹ A "new nominee" is a director who is being presented for election by shareholders for the first time. Recommendations on new nominees who have served for less than one year are made on a case-by-case basis depending on the timing of their appointment and the problematic governance issue in question.

² In general, companies with a plurality vote standard use "Withhold" as the contrary vote option in director elections; companies with a majority vote standard use "Against". However, it will vary by company and the proxy must be checked to determine the valid contrary vote option for the particular company.



ISS Classification of Directors - U.S.

1. Executive Director

1.1. Current officer¹ of the company or one of its affiliates².

2. Non-Independent Non-Executive Director

Board Identification

2.1. Director identified as not independent by the board.

Controlling/Significant Shareholder

2.2. Beneficial owner of more than 50 percent of the company's voting power (this may be aggregated if voting power is distributed among more than one member of a group).

Current Employment at Company or Related Company

- 2.3. Non-officer employee of the firm (including employee representatives).
- 2.4. Officer¹, former officer, or general or limited partner of a joint venture or partnership with the company.

Former Employment

- 2.5. Former CEO of the company. 3, 4
- 2.6. Former non-CEO officer¹ of the company or an affiliate² within the past five years.
- 2.7. Former officer¹ of an acquired company within the past five years.⁴
- 2.8. Officer¹ of a former parent or predecessor firm at the time the company was sold or split off within the past five years.
- 2.9. Former interim officer if the service was longer than 18 months. If the service was between 12 and 18 months an assessment of the interim officer's employment agreement will be made.⁵

Family Members

- 2.10. Immediate family member⁶ of a current or former officer¹ of the company or its affiliates² within the last five years.
- 2.11. Immediate family member⁶ of a current employee of company or its affiliates² where additional factors raise concern (which may include, but are not limited to, the following: a director related to numerous employees; the company or its affiliates employ relatives of numerous board members; or a non-Section 16 officer in a key strategic role).

<u>Professional, Transactional, and Charitable Relationships</u>

- 2.12. Director who (or whose immediate family member⁶) currently provides professional services⁷ in excess of \$10,000 per year to: the company, an affiliate², or an individual officer of the company or an affiliate; or who is (or whose immediate family member⁶ is) a partner, employee, or controlling shareholder of an organization which provides the services.
- 2.13. Director who (or whose immediate family member⁶) currently has any material transactional relationship⁸ with the company or its affiliates²; or who is (or whose immediate family member⁶ is) a partner in, or a controlling shareholder or an executive officer of, an organization which has the material transactional relationship⁸ (excluding investments in the company through a private placement).
- 2.14. Director who (or whose immediate family member⁶) is a trustee, director, or employee of a charitable or non-profit organization that receives material grants or endowments⁸ from the company or its affiliates².

Other Relationships

- 2.15. Party to a voting agreement⁹ to vote in line with management on proposals being brought to shareholder vote.
- 2.16. Has (or an immediate family member⁶ has) an interlocking relationship as defined by the SEC involving members of the board of directors or its Compensation Committee. ¹⁰
- 2.17. Founder¹¹ of the company but not currently an employee.
- 2.18. Director with pay comparable to Named Executive Officers.
- 2.19. Any material relationship with the company.

3. Independent Director

3.1. No material¹² connection to the company other than a board seat.



Footnotes:

- 1. The definition of officer will generally follow that of a "Section 16 officer" (officers subject to Section 16 of the Securities and Exchange Act of 1934) and includes the chief executive, operating, financial, legal, technology, and accounting officers of a company (including the president, treasurer, secretary, controller, or any vice president in charge of a principal business unit, division, or policy function). Current interim officers are included in this category. For private companies, the equivalent positions are applicable. A non-employee director serving as an officer due to statutory requirements (e.g. corporate secretary) will generally be classified as a Non-Independent Non-Executive Director under "Any material relationship with the company." However, if the company provides explicit disclosure that the director is not receiving additional compensation exceeding \$10,000 per year for serving in that capacity, then the director will be classified as an Independent Director.
- 2. "Affiliate" includes a subsidiary, sibling company, or parent company. ISS uses 50 percent control ownership by the parent company as the standard for applying its affiliate designation. The manager/advisor of an externally managed issuer (EMI) is considered an affiliate.
- 3. Includes any former CEO of the company prior to the company's initial public offering (IPO).
- 4. When there is a former CEO of a special purpose acquisition company (SPAC) serving on the board of an acquired company, ISS will generally classify such directors as independent unless determined otherwise taking into account the following factors: the applicable listing standards determination of such director's independence; any operating ties to the firm; and the existence of any other conflicting relationships or related party transactions.
- 5. ISS will look at the terms of the interim officer's employment contract to determine if it contains severance pay, long-term health and pension benefits, or other such standard provisions typically contained in contracts of permanent, non-temporary CEOs. ISS will also consider if a formal search process was under way for a full-time officer at the time.
- 6. "Immediate family member" follows the SEC's definition of such and covers spouses, parents, children, step-parents, step-children, siblings, in-laws, and any person (other than a tenant or employee) sharing the household of any director, nominee for director, executive officer, or significant shareholder of the company.
- 7. Professional services can be characterized as advisory in nature, generally involve access to sensitive company information or to strategic decision-making, and typically have a commission- or fee-based payment structure. Professional services generally include but are not limited to the following: investment banking/financial advisory services, commercial banking (beyond deposit services), investment services, insurance services, accounting/audit services, consulting services, marketing services, legal services, property management services, realtor services, lobbying services, executive search services, and IT consulting services. The following would generally be considered transactional relationships and not professional services: deposit services, IT tech support services, educational services, and construction services. The case of participation in a banking syndicate by a non-lead bank should be considered a transactional (and hence subject to the associated materiality test) rather than a professional relationship. "Of Counsel" relationships are only considered immaterial if the individual does not receive any form of compensation (in excess of \$10,000 per year) from, or is a retired partner of, the firm providing the professional service. The case of a company providing a professional service to one of its directors or to an entity with which one of its directors is affiliated, will be considered a transactional rather than a professional relationship. Insurance services and marketing services are assumed to be professional services unless the company explains why such services are not advisory.
- 8. A material transactional relationship, including grants to non-profit organizations, exists if the company makes annual payments to, or receives annual payments from, another entity, exceeding the greater of: \$200,000 or 5 percent of the recipient's gross revenues, for a company that follows NASDAQ listing standards; or the greater of \$1,000,000 or 2 percent of the recipient's gross revenues, for a company that follows NYSE listing standards. For a company that follows neither of the preceding standards, ISS will apply the NASDAQ-based materiality test. (The recipient is the party receiving the financial proceeds from the transaction).
- 9. Dissident directors who are parties to a voting agreement pursuant to a settlement or similar arrangement may be classified as Independent Directors if an analysis of the following factors indicates that the voting agreement does not compromise their alignment with all shareholders' interests: the terms of the agreement; the duration of the standstill provision in the agreement; the limitations and requirements of actions that are agreed upon; if the dissident director nominee(s) is subject to the standstill; and if there any conflicting relationships or related party transactions.
- 10. Interlocks include: executive officers serving as directors on each other's compensation or similar committees (or, in the absence of such a committee, on the board); or executive officers sitting on each other's boards and at least one serves on the other's compensation or similar committees (or, in the absence of such a committee, on the board).
- 11. The operating involvement of the founder with the company will be considered; if the founder was never employed by the company, ISS may deem him or her an Independent Director.

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12. For purposes of ISS's director independence classification, "material" will be defined as a standard of relationship (financial, personal, or otherwise) that a reasonable person might conclude could potentially influence one's objectivity in the boardroom in a manner that would have a meaningful impact on an individual's ability to satisfy requisite fiduciary standards on behalf of shareholders.

Composition

Attendance at Board and Committee Meetings: Generally vote against or withhold from directors (except nominees who served only part of the fiscal year³) who attend less than 75 percent of the aggregate of their board and committee meetings for the period for which they served, unless an acceptable reason for absences is disclosed in the proxy or another SEC filing. Acceptable reasons for director absences are generally limited to the following:

- Medical issues/illness;
- Family emergencies; and
- Missing only one meeting (when the total of all meetings is three or fewer).

In cases of chronic poor attendance without reasonable justification, in addition to voting against the director(s) with poor attendance, generally vote against or withhold from appropriate members of the nominating/governance committees or the full board.

If the proxy disclosure is unclear and insufficient to determine whether a director attended at least 75 percent of the aggregate of his/her board and committee meetings during his/her period of service, vote against or withhold from the director(s) in question.

Overboarded Directors: Generally vote against or withhold from individual directors who:

- Sit on more than five public company boards; or
- Are CEOs of public companies who sit on the boards of more than two public companies besides their own—withhold only at their outside boards⁴.

Gender Diversity: Generally vote against or withhold from the chair of the nominating committee (or other directors on a case-by-case basis) at companies where there are no women on the company's board. An exception will be made if there was at least one woman on the board at the preceding annual meeting and the board makes a firm commitment to return to a gender-diverse status within a year.

Racial and/or Ethnic Diversity: For companies in the Russell 3000 or S&P 1500 indices, generally vote against or withhold from the chair of the nominating committee (or other directors on a case-by-case basis) where the board has no apparent racially or ethnically diverse members⁵. An exception will be made if there was racial and/or ethnic diversity on the board at the preceding annual meeting and the board makes a firm commitment to appoint at least one racial and/or ethnic diverse member within a year.

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³ Nominees who served for only part of the fiscal year are generally exempted from the attendance policy.

⁴ Although all of a CEO's subsidiary boards with publicly-traded common stock will be counted as separate boards, ISS will not recommend a withhold vote for the CEO of a parent company board or any of the controlled (>50 percent ownership) subsidiaries of that parent but may do so at subsidiaries that are less than 50 percent controlled and boards outside the parent/subsidiary relationships.

⁵ Aggregate diversity statistics provided by the board will only be considered if specific to racial and/or ethnic diversity.



Responsiveness

Vote case-by-case on individual directors, committee members, or the entire board of directors as appropriate if:

- The board failed to act on a shareholder proposal that received the support of a majority of the shares cast in the previous year or failed to act on a management proposal seeking to ratify an existing charter/bylaw provision that received opposition of a majority of the shares cast in the previous year. Factors that will be considered are:
 - Disclosed outreach efforts by the board to shareholders in the wake of the vote;
 - Rationale provided in the proxy statement for the level of implementation;
 - The subject matter of the proposal;
 - The level of support for and opposition to the resolution in past meetings;
 - Actions taken by the board in response to the majority vote and its engagement with shareholders;
 - The continuation of the underlying issue as a voting item on the ballot (as either shareholder or management proposals); and
 - Other factors as appropriate.
- The board failed to act on takeover offers where the majority of shares are tendered;
- At the previous board election, any director received more than 50 percent withhold/against votes of the shares cast and the company has failed to address the issue(s) that caused the high withhold/against vote.

Vote case-by-case on Compensation Committee members (or, in exceptional cases, the full board) and the Say on Pay proposal if:

- The company's previous say-on-pay received the support of less than 70 percent of votes cast. Factors that will be considered are:
 - The company's response, including:
 - Disclosure of engagement efforts with major institutional investors, including the frequency and timing of engagements and the company participants (including whether independent directors participated);
 - Disclosure of the specific concerns voiced by dissenting shareholders that led to the say-on-pay opposition;
 - Disclosure of specific and meaningful actions taken to address shareholders' concerns;
 - Other recent compensation actions taken by the company;
 - Whether the issues raised are recurring or isolated;
 - The company's ownership structure; and
 - Whether the support level was less than 50 percent, which would warrant the highest degree of responsiveness.
- The board implements an advisory vote on executive compensation on a less frequent basis than the frequency that received the plurality of votes cast.

Accountability

PROBLEMATIC TAKEOVER DEFENSES, CAPITAL STRUCTURE, AND GOVERNANCE STRUCTURE

Poison Pills: Generally vote against or withhold from all nominees (except new nominees¹, who should be considered case-by-case) if:

The company has a poison pill with a deadhand or slowhand feature⁶;

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⁶ If a short-term pill with a deadhand or slowhand feature is enacted but expires before the next shareholder vote, ISS will generally still recommend withhold/against nominees at the next shareholder meeting following its adoption.



- The board makes a material adverse modification to an existing pill, including, but not limited to, extension, renewal, or lowering the trigger, without shareholder approval; or
- The company has a long-term poison pill (with a term of over one year) that was not approved by the public shareholders⁷.

Vote case-by-case on nominees if the board adopts an initial short-term pill⁶ (with a term of one year or less) without shareholder approval, taking into consideration:

- The disclosed rationale for the adoption;
- The trigger;
- The company's market capitalization (including absolute level and sudden changes);
- A commitment to put any renewal to a shareholder vote; and
- Other factors as relevant.

Unequal Voting Rights: Generally vote withhold or against directors individually, committee members, or the entire board (except new nominees¹, who should be considered case-by-case), if the company employs a common stock structure with unequal voting rights⁸.

Exceptions to this policy will generally be limited to:

- Newly-public companies⁹ with a sunset provision of no more than seven years from the date of going public;
- Limited Partnerships and the Operating Partnership (OP) unit structure of REITs;
- Situations where the super-voting shares represent less than 5% of total voting power and therefore considered to be de minimis; or
- The company provides sufficient protections for minority shareholders, such as allowing minority shareholders a regular binding vote on whether the capital structure should be maintained.

Classified Board Structure: The board is classified, and a continuing director responsible for a problematic governance issue at the board/committee level that would warrant a withhold/against vote recommendation is not up for election. All appropriate nominees (except new) may be held accountable.

Removal of Shareholder Discretion on Classified Boards: The company has opted into, or failed to opt out of, state laws requiring a classified board structure.

Problematic Governance Structure: For companies that hold or held their first annual meeting⁹ of public shareholders after Feb. 1, 2015, generally vote against or withhold from directors individually, committee members, or the entire board (except new nominees¹, who should be considered case-by-case) if, prior to or in connection with the company's public offering, the company or its board adopted the following bylaw or charter provisions that are considered to be materially adverse to shareholder rights:

- Supermajority vote requirements to amend the bylaws or charter;
- A classified board structure; or
- Other egregious provisions.

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⁷ Approval prior to, or in connection, with a company's becoming publicly-traded, or in connection with a de-SPAC transaction, is insufficient.

⁸ This generally includes classes of common stock that have additional votes per share than other shares; classes of shares that are not entitled to vote on all the same ballot items or nominees; or stock with time-phased voting rights ("loyalty shares").

⁹ Includes companies that emerge from bankruptcy, SPAC transactions, spin-offs, direct listings, and those who complete a traditional initial public offering.



A provision which specifies that the problematic structure(s) will be sunset within seven years of the date of going public will be considered a mitigating factor.

Unless the adverse provision is reversed or removed, vote case-by-case on director nominees in subsequent years.

Unilateral Bylaw/Charter Amendments: Generally vote against or withhold from directors individually, committee members, or the entire board (except new nominees¹, who should be considered case-by-case) if the board amends the company's bylaws or charter without shareholder approval in a manner that materially diminishes shareholders' rights or that could adversely impact shareholders, considering the following factors:

- The board's rationale for adopting the bylaw/charter amendment without shareholder ratification;
- Disclosure by the company of any significant engagement with shareholders regarding the amendment;
- The level of impairment of shareholders' rights caused by the board's unilateral amendment to the bylaws/charter;
- The board's track record with regard to unilateral board action on bylaw/charter amendments or other entrenchment provisions;
- The company's ownership structure;
- The company's existing governance provisions;
- The timing of the board's amendment to the bylaws/charter in connection with a significant business development; and
- Other factors, as deemed appropriate, that may be relevant to determine the impact of the amendment on shareholders.

Unless the adverse amendment is reversed or submitted to a binding shareholder vote, in subsequent years vote case-by-case on director nominees. Generally vote against (except new nominees¹, who should be considered case-by-case) if the directors:

- Classified the board;
- Adopted supermajority vote requirements to amend the bylaws or charter;
- Eliminated shareholders' ability to amend bylaws;
- Adopted a <u>fee-shifting provision</u>; or
- Adopted another provision deemed egregious.

Restricting Binding Shareholder Proposals: Generally vote against or withhold from the members of the governance committee if:

The company's governing documents impose undue restrictions on shareholders' ability to amend the bylaws. Such restrictions include but are not limited to: outright prohibition on the submission of binding shareholder proposals or share ownership requirements, subject matter restrictions, or time holding requirements in excess of SEC Rule 14a-8. Vote against or withhold on an ongoing basis.

Submission of management proposals to approve or ratify requirements in excess of SEC Rule 14a-8 for the submission of binding bylaw amendments will generally be viewed as an insufficient restoration of shareholders' rights. Generally continue to vote against or withhold on an ongoing basis until shareholders are provided with an unfettered ability to amend the bylaws or a proposal providing for such unfettered right is submitted for shareholder approval.

Director Performance Evaluation: The board lacks mechanisms to promote accountability and oversight, coupled with sustained poor performance relative to peers. Sustained poor performance is measured by one-, three-, and five-year total shareholder returns in the bottom half of a company's four-digit GICS industry group (Russell 3000 companies only). Take into consideration the company's operational metrics and other factors as warranted. Problematic provisions include but are not limited to:

A classified board structure;



- A supermajority vote requirement;
- Either a plurality vote standard in uncontested director elections, or a majority vote standard in contested elections;
- The inability of shareholders to call special meetings;
- The inability of shareholders to act by written consent;
- A multi-class capital structure; and/or
- A non-shareholder-approved poison pill.

Management Proposals to Ratify Existing Charter or Bylaw Provisions: Vote against/withhold from individual directors, members of the governance committee, or the full board, where boards ask shareholders to ratify existing charter or bylaw provisions considering the following factors:

- The presence of a shareholder proposal addressing the same issue on the same ballot;
- The board's rationale for seeking ratification;
- Disclosure of actions to be taken by the board should the ratification proposal fail;
- Disclosure of shareholder engagement regarding the board's ratification request;
- The level of impairment to shareholders' rights caused by the existing provision;
- The history of management and shareholder proposals on the provision at the company's past meetings;
- Whether the current provision was adopted in response to the shareholder proposal;
- The company's ownership structure; and
- Previous use of ratification proposals to exclude shareholder proposals.

Problematic Audit-Related Practices

Generally vote against or withhold from the members of the Audit Committee if:

- The non-audit fees paid to the auditor are excessive;
- The company receives an adverse opinion on the company's financial statements from its auditor; or
- There is persuasive evidence that the Audit Committee entered into an inappropriate indemnification
 agreement with its auditor that limits the ability of the company, or its shareholders, to pursue legitimate legal
 recourse against the audit firm.

Vote case-by-case on members of the Audit Committee and potentially the full board if:

Poor accounting practices are identified that rise to a level of serious concern, such as: fraud; misapplication of GAAP; and material weaknesses identified in Section 404 disclosures. Examine the severity, breadth, chronological sequence, and duration, as well as the company's efforts at remediation or corrective actions, in determining whether withhold/against votes are warranted.

Problematic Compensation Practices

In the absence of an Advisory Vote on Executive Compensation (Say on Pay) ballot item or in egregious situations, vote against or withhold from the members of the Compensation Committee and potentially the full board if:

- There is an unmitigated misalignment between CEO pay and company performance (pay for performance);
- The company maintains significant <u>problematic pay practices</u>; or
- The board exhibits a significant level of poor communication and responsiveness to shareholders.

Generally vote against or withhold from the Compensation Committee chair, other committee members, or potentially the full board if:

- The company fails to include a Say on Pay ballot item when required under SEC provisions, or under the company's declared frequency of say on pay; or
- The company fails to include a Frequency of Say on Pay ballot item when required under SEC provisions.

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Generally vote against members of the board committee responsible for approving/setting non-employee director compensation if there is a pattern (i.e. two or more years) of awarding excessive non-employee director compensation without disclosing a compelling rationale or other mitigating factors.

Problematic Pledging of Company Stock: Vote against the members of the committee that oversees risks related to pledging, or the full board, where a significant level of pledged company stock by executives or directors raises concerns. The following factors will be considered:

- The presence of an anti-pledging policy, disclosed in the proxy statement, that prohibits future pledging activity;
- The magnitude of aggregate pledged shares in terms of total common shares outstanding, market value, and trading volume;
- Disclosure of progress or lack thereof in reducing the magnitude of aggregate pledged shares over time;
- Disclosure in the proxy statement that shares subject to stock ownership and holding requirements do not include pledged company stock; and
- Any other relevant factors.

Governance Failures

Under extraordinary circumstances, vote against or withhold from directors individually, committee members, or the entire board, due to:

- Material failures of governance, stewardship, risk oversight¹⁰, or fiduciary responsibilities at the company;
- Failure to replace management as appropriate; or
- Egregious actions related to a director's service on other boards that raise substantial doubt about his or her ability to effectively oversee management and serve the best interests of shareholders at any company.

Voting on Director Nominees in Contested Elections

Vote-No Campaigns

General Recommendation: In cases where companies are targeted in connection with public "vote-no" campaigns, evaluate director nominees under the existing governance policies for voting on director nominees in uncontested elections. Take into consideration the arguments submitted by shareholders and other publicly available information.

Proxy Contests/Proxy Access

General Recommendation: Vote case-by-case on the election of directors in contested elections, considering the following factors:

- Long-term financial performance of the company relative to its industry;
- Management's track record;
- Background to the contested election;
- Nominee qualifications and any compensatory arrangements;
- Strategic plan of dissident slate and quality of the critique against management;

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¹⁰ Examples of failure of risk oversight include but are not limited to: bribery; large or serial fines or sanctions from regulatory bodies; significant adverse legal judgments or settlement; or hedging of company stock.



- Likelihood that the proposed goals and objectives can be achieved (both slates); and
- Stock ownership positions.

In the case of candidates nominated pursuant to proxy access, vote case-by-case considering any applicable factors listed above or additional factors which may be relevant, including those that are specific to the company, to the nominee(s) and/or to the nature of the election (such as whether there are more candidates than board seats).

Other Board-Related Proposals

Adopt Anti-Hedging/Pledging/Speculative Investments Policy

General Recommendation: Generally vote for proposals seeking a policy that prohibits named executive officers from engaging in derivative or speculative transactions involving company stock, including hedging, holding stock in a margin account, or pledging stock as collateral for a loan. However, the company's existing policies regarding responsible use of company stock will be considered.

Board Refreshment

Board refreshment is best implemented through an ongoing program of individual director evaluations, conducted annually, to ensure the evolving needs of the board are met and to bring in fresh perspectives, skills, and diversity as needed.

Term/Tenure Limits

General Recommendation: Vote case-by-case on management proposals regarding director term/tenure limits, considering:

- The rationale provided for adoption of the term/tenure limit;
- The robustness of the company's board evaluation process;
- Whether the limit is of sufficient length to allow for a broad range of director tenures;
- Whether the limit would disadvantage independent directors compared to non-independent directors; and
- Whether the board will impose the limit evenly, and not have the ability to waive it in a discriminatory manner.

Vote case-by-case on shareholder proposals asking for the company to adopt director term/tenure limits, considering:

- The scope of the shareholder proposal; and
- Evidence of problematic issues at the company combined with, or exacerbated by, a lack of board refreshment.

Age Limits

General Recommendation: Generally vote against management and shareholder proposals to limit the tenure of independent directors through mandatory retirement ages. Vote for proposals to remove mandatory age limits.

Board Size

General Recommendation: Vote for proposals seeking to fix the board size or designate a range for the board size.

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Vote against proposals that give management the ability to alter the size of the board outside of a specified range without shareholder approval.

Classification/Declassification of the Board

General Recommendation: Vote against proposals to classify (stagger) the board.

Vote for proposals to repeal classified boards and to elect all directors annually.

CEO Succession Planning

General Recommendation: Generally vote for proposals seeking disclosure on a CEO succession planning policy, considering, at a minimum, the following factors:

- The reasonableness/scope of the request; and
- The company's existing disclosure on its current CEO succession planning process.

Cumulative Voting

General Recommendation: Generally vote against management proposals to eliminate cumulate voting, and for shareholder proposals to restore or provide for cumulative voting, unless:

- The company has proxy access¹¹, thereby allowing shareholders to nominate directors to the company's ballot; and
- The company has adopted a majority vote standard, with a carve-out for plurality voting in situations where there are more nominees than seats, and a director resignation policy to address failed elections.

Vote for proposals for cumulative voting at controlled companies (insider voting power > 50%).

Director and Officer Indemnification, Liability Protection, and Exculpation

General Recommendation: Vote case-by-case on proposals on director and officer indemnification, liability protection, and exculpation¹².

Consider the stated rationale for the proposed change. Also consider, among other factors, the extent to which the proposal would:

- Eliminate directors' and officers' liability for monetary damages for violating the duty of care.
- Eliminate directors' and officers' liability for monetary damages for violating the duty of loyalty.
- Expand coverage beyond just legal expenses to liability for acts that are more serious violations of fiduciary obligation than mere carelessness.
- Expand the scope of indemnification to provide for mandatory indemnification of company officials in connection with acts that previously the company was permitted to provide indemnification for, at the

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¹¹ A proxy access right that meets the <u>recommended guidelines.</u>

¹² Indemnification: the condition of being secured against loss or damage.

Limited liability: a person's financial liability is limited to a fixed sum, or personal financial assets are not at risk if the individual loses a lawsuit that results in financial award/damages to the plaintiff.

Exculpation: to eliminate or limit the personal liability of a director or officer to the corporation or its shareholders for monetary damages for breach of fiduciary duty as a director or officer.



discretion of the company's board (*i.e.*, "permissive indemnification"), but that previously the company was not required to indemnify.

Vote for those proposals providing such expanded coverage in cases when a director's or officer's legal defense was unsuccessful if both of the following apply:

• If the individual was found to have acted in good faith and in a manner that the individual reasonably believed was in the best interests of the company; and

If only the individual's legal expenses would be covered.

Establish/Amend Nominee Qualifications

General Recommendation: Vote case-by-case on proposals that establish or amend director qualifications. Votes should be based on the reasonableness of the criteria and the degree to which they may preclude dissident nominees from joining the board.

Vote case-by-case on shareholder resolutions seeking a director nominee who possesses a particular subject matter expertise, considering:

- The company's board committee structure, existing subject matter expertise, and board nomination provisions relative to that of its peers;
- The company's existing board and management oversight mechanisms regarding the issue for which board oversight is sought;
- The company's disclosure and performance relating to the issue for which board oversight is sought and any significant related controversies; and
- The scope and structure of the proposal.

Establish Other Board Committee Proposals

General Recommendation: Generally vote against shareholder proposals to establish a new board committee, as such proposals seek a specific oversight mechanism/structure that potentially limits a company's flexibility to determine an appropriate oversight mechanism for itself. However, the following factors will be considered:

- Existing oversight mechanisms (including current committee structure) regarding the issue for which board oversight is sought;
- Level of disclosure regarding the issue for which board oversight is sought;
- Company performance related to the issue for which board oversight is sought;
- Board committee structure compared to that of other companies in its industry sector; and
- The scope and structure of the proposal.

Filling Vacancies/Removal of Directors

General Recommendation: Vote against proposals that provide that directors may be removed only for cause. Vote for proposals to restore shareholders' ability to remove directors with or without cause.

Vote against proposals that provide that only continuing directors may elect replacements to fill board vacancies.

Vote for proposals that permit shareholders to elect directors to fill board vacancies.

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Independent Board Chair

General Recommendation: Generally vote for shareholder proposals requiring that the board chair position be filled by an independent director, taking into consideration the following:

- The scope and rationale of the proposal;
- The company's current board leadership structure;
- The company's governance structure and practices;
- Company performance; and
- Any other relevant factors that may be applicable.

The following factors will increase the likelihood of a "for" recommendation:

- A majority non-independent board and/or the presence of non-independent directors on key board committees:
- A weak or poorly-defined lead independent director role that fails to serve as an appropriate counterbalance to a combined CEO/chair role;
- The presence of an executive or non-independent chair in addition to the CEO, a recent recombination of the role of CEO and chair, and/or departure from a structure with an independent chair;
- Evidence that the board has failed to oversee and address material risks facing the company;
- A material governance failure, particularly if the board has failed to adequately respond to shareholder concerns or if the board has materially diminished shareholder rights; or
- Evidence that the board has failed to intervene when management's interests are contrary to shareholders' interests.

Majority of Independent Directors/Establishment of Independent Committees

General Recommendation: Vote for shareholder proposals asking that a majority or more of directors be independent unless the board composition already meets the proposed threshold by ISS' definition of Independent Director (See ISS' Classification of Directors.)

Vote for shareholder proposals asking that board audit, compensation, and/or nominating committees be composed exclusively of independent directors unless they currently meet that standard.

Majority Vote Standard for the Election of Directors

General Recommendation: Generally vote for management proposals to adopt a majority of votes cast standard for directors in uncontested elections. Vote against if no carve-out for a plurality vote standard in contested elections is included.

Generally vote for precatory and binding shareholder resolutions requesting that the board change the company's bylaws to stipulate that directors need to be elected with an affirmative majority of votes cast, provided it does not conflict with the state law where the company is incorporated. Binding resolutions need to allow for a carve-out for a plurality vote standard when there are more nominees than board seats.

Companies are strongly encouraged to also adopt a post-election policy (also known as a director resignation policy) that will provide guidelines so that the company will promptly address the situation of a holdover director.

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Proxy Access

General Recommendation: Generally vote for management and shareholder proposals for proxy access with the following provisions:

- Ownership threshold: maximum requirement not more than three percent (3%) of the voting power;
- Ownership duration: maximum requirement not longer than three (3) years of continuous ownership for each member of the nominating group;
- Aggregation: minimal or no limits on the number of shareholders permitted to form a nominating group;
- **Cap:** cap on nominees of generally twenty-five percent (25%) of the board.

Review for reasonableness any other restrictions on the right of proxy access. Generally vote against proposals that are more restrictive than these guidelines.

Require More Nominees than Open Seats

General Recommendation: Vote against shareholder proposals that would require a company to nominate more candidates than the number of open board seats.

Shareholder Engagement Policy (Shareholder Advisory Committee)

General Recommendation: Generally vote for shareholder proposals requesting that the board establish an internal mechanism/process, which may include a committee, in order to improve communications between directors and shareholders, unless the company has the following features, as appropriate:

- Established a communication structure that goes beyond the exchange requirements to facilitate the
 exchange of information between shareholders and members of the board;
- Effectively disclosed information with respect to this structure to its shareholders;
- Company has not ignored majority-supported shareholder proposals, or a majority withhold vote on a director nominee; and
- The company has an independent chair or a lead director, according to <u>ISS' definition</u>. This individual must be made available for periodic consultation and direct communication with major shareholders.

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2. Audit-Related

Auditor Indemnification and Limitation of Liability

General Recommendation: Vote case-by-case on the issue of auditor indemnification and limitation of liability. Factors to be assessed include, but are not limited to:

- The terms of the auditor agreement—the degree to which these agreements impact shareholders' rights;
- The motivation and rationale for establishing the agreements;
- The quality of the company's disclosure; and
- The company's historical practices in the audit area.

Vote against or withhold from members of an audit committee in situations where there is persuasive evidence that the audit committee entered into an inappropriate indemnification agreement with its auditor that limits the ability of the company, or its shareholders, to pursue legitimate legal recourse against the audit firm.

Auditor Ratification

General Recommendation: Vote for proposals to ratify auditors unless any of the following apply:

- An auditor has a financial interest in or association with the company, and is therefore not independent;
- There is reason to believe that the independent auditor has rendered an opinion that is neither accurate nor
 indicative of the company's financial position;
- Poor accounting practices are identified that rise to a serious level of concern, such as fraud or misapplication of GAAP; or
- Fees for non-audit services ("Other" fees) are excessive.

Non-audit fees are excessive if:

Non-audit ("other") fees > audit fees + audit-related fees + tax compliance/preparation fees

Tax compliance and preparation include the preparation of original and amended tax returns and refund claims, and tax payment planning. All other services in the tax category, such as tax advice, planning, or consulting, should be added to "Other" fees. If the breakout of tax fees cannot be determined, add all tax fees to "Other" fees.

In circumstances where "Other" fees include fees related to significant one-time capital structure events (such as initial public offerings, bankruptcy emergence, and spin-offs) and the company makes public disclosure of the amount and nature of those fees that are an exception to the standard "non-audit fee" category, then such fees may be excluded from the non-audit fees considered in determining the ratio of non-audit to audit/audit-related fees/tax compliance and preparation for purposes of determining whether non-audit fees are excessive.

Shareholder Proposals Limiting Non-Audit Services

General Recommendation: Vote case-by-case on shareholder proposals asking companies to prohibit or limit their auditors from engaging in non-audit services.

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Shareholder Proposals on Audit Firm Rotation

General Recommendation: Vote case-by-case on shareholder proposals asking for audit firm rotation, taking into account:

- The tenure of the audit firm;
- The length of rotation specified in the proposal;
- Any significant audit-related issues at the company;
- The number of Audit Committee meetings held each year;
- The number of financial experts serving on the committee; and
- Whether the company has a periodic renewal process where the auditor is evaluated for both audit quality and competitive price.

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3. Shareholder Rights & Defenses

Advance Notice Requirements for Shareholder Proposals/Nominations

General Recommendation: Vote case-by-case on advance notice proposals, giving support to those proposals which allow shareholders to submit proposals/nominations as close to the meeting date as reasonably possible and within the broadest window possible, recognizing the need to allow sufficient notice for company, regulatory, and shareholder review.

To be reasonable, the company's deadline for shareholder notice of a proposal/nominations must be no earlier than 120 days prior to the anniversary of the previous year's meeting and have a submittal window of no shorter than 30 days from the beginning of the notice period (also known as a 90-120-day window). The submittal window is the period under which shareholders must file their proposals/nominations prior to the deadline.

In general, support additional efforts by companies to ensure full disclosure in regard to a proponent's economic and voting position in the company so long as the informational requirements are reasonable and aimed at providing shareholders with the necessary information to review such proposals.

Amend Bylaws without Shareholder Consent

General Recommendation: Vote against proposals giving the board exclusive authority to amend the bylaws.

Vote case-by-case on proposals giving the board the ability to amend the bylaws in addition to shareholders, taking into account the following:

- Any impediments to shareholders' ability to amend the bylaws (i.e. supermajority voting requirements);
- The company's ownership structure and historical voting turnout;
- Whether the board could amend bylaws adopted by shareholders; and
- Whether shareholders would retain the ability to ratify any board-initiated amendments.

Control Share Acquisition Provisions

General Recommendation: Vote for proposals to opt out of control share acquisition statutes unless doing so would enable the completion of a takeover that would be detrimental to shareholders.

Vote against proposals to amend the charter to include control share acquisition provisions.

Vote for proposals to restore voting rights to the control shares.

Control share acquisition statutes function by denying shares their voting rights when they contribute to ownership in excess of certain thresholds. Voting rights for those shares exceeding ownership limits may only be restored by approval of either a majority or supermajority of disinterested shares. Thus, control share acquisition statutes effectively require a hostile bidder to put its offer to a shareholder vote or risk voting disenfranchisement if the bidder continues buying up a large block of shares.

Control Share Cash-Out Provisions

General Recommendation: Vote for proposals to opt out of control share cash-out statutes.

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Control share cash-out statutes give dissident shareholders the right to "cash-out" of their position in a company at the expense of the shareholder who has taken a control position. In other words, when an investor crosses a preset threshold level, remaining shareholders are given the right to sell their shares to the acquirer, who must buy them at the highest acquiring price.

Disgorgement Provisions

General Recommendation: Vote for proposals to opt out of state disgorgement provisions.

Disgorgement provisions require an acquirer or potential acquirer of more than a certain percentage of a company's stock to disgorge, or pay back, to the company any profits realized from the sale of that company's stock purchased 24 months before achieving control status. All sales of company stock by the acquirer occurring within a certain period of time (between 18 months and 24 months) prior to the investor's gaining control status are subject to these recapture-of-profits provisions.

Fair Price Provisions

General Recommendation: Vote case-by-case on proposals to adopt fair price provisions (provisions that stipulate that an acquirer must pay the same price to acquire all shares as it paid to acquire the control shares), evaluating factors such as the vote required to approve the proposed acquisition, the vote required to repeal the fair price provision, and the mechanism for determining the fair price.

Generally vote against fair price provisions with shareholder vote requirements greater than a majority of disinterested shares.

Freeze-Out Provisions

General Recommendation: Vote for proposals to opt out of state freeze-out provisions. Freeze-out provisions force an investor who surpasses a certain ownership threshold in a company to wait a specified period of time before gaining control of the company.

Greenmail

General Recommendation: Vote for proposals to adopt anti-greenmail charter or bylaw amendments or otherwise restrict a company's ability to make greenmail payments.

Vote case-by-case on anti-greenmail proposals when they are bundled with other charter or bylaw amendments.

Greenmail payments are targeted share repurchases by management of company stock from individuals or groups seeking control of the company. Since only the hostile party receives payment, usually at a substantial premium over the market value of its shares, the practice discriminates against all other shareholders.

Shareholder Litigation Rights

Federal Forum Selection Provisions

Federal forum selection provisions require that U.S. federal courts be the sole forum for shareholders to litigate claims arising under federal securities law.

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General Recommendation: Generally vote for federal forum selection provisions in the charter or bylaws that specify "the district courts of the United States" as the exclusive forum for federal securities law matters, in the absence of serious concerns about corporate governance or board responsiveness to shareholders.

Vote against provisions that restrict the forum to a particular federal district court; unilateral adoption (without a shareholder vote) of such a provision will generally be considered a one-time failure under the Unilateral Bylaw/Charter Amendments policy.

Exclusive Forum Provisions for State Law Matters

Exclusive forum provisions in the charter or bylaws restrict shareholders' ability to bring derivative lawsuits against the company, for claims arising out of state corporate law, to the courts of a particular state (generally the state of incorporation).

General Recommendation: Generally vote for charter or bylaw provisions that specify courts located within the state of Delaware as the exclusive forum for corporate law matters for Delaware corporations, in the absence of serious concerns about corporate governance or board responsiveness to shareholders.

For states other than Delaware, vote case-by-case on exclusive forum provisions, taking into consideration:

- The company's stated rationale for adopting such a provision;
- Disclosure of past harm from duplicative shareholder lawsuits in more than one forum;
- The breadth of application of the charter or bylaw provision, including the types of lawsuits to which it would apply and the definition of key terms; and
- Governance features such as shareholders' ability to repeal the provision at a later date (including the vote standard applied when shareholders attempt to amend the charter or bylaws) and their ability to hold directors accountable through annual director elections and a majority vote standard in uncontested elections.

Generally vote against provisions that specify a state other than the state of incorporation as the exclusive forum for corporate law matters, or that specify a particular local court within the state; unilateral adoption of such a provision will generally be considered a one-time failure under the Unilateral Bylaw/Charter Amendments policy.

Fee shifting

Fee-shifting provisions in the charter or bylaws require that a shareholder who sues a company unsuccessfully pay all litigation expenses of the defendant corporation and its directors and officers.

General Recommendation: Generally vote against provisions that mandate fee-shifting whenever plaintiffs are not completely successful on the merits (i.e., including cases where the plaintiffs are partially successful).

Unilateral adoption of a fee-shifting provision will generally be considered an ongoing failure under the <u>Unilateral Bylaw/Charter Amendments</u> policy.

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Net Operating Loss (NOL) Protective Amendments

General Recommendation: Vote against proposals to adopt a protective amendment for the stated purpose of protecting a company's net operating losses (NOL) if the effective term of the protective amendment would exceed the shorter of three years and the exhaustion of the NOL.

Vote case-by-case, considering the following factors, for management proposals to adopt an NOL protective amendment that would remain in effect for the shorter of three years (or less) and the exhaustion of the NOL:

- The ownership threshold (NOL protective amendments generally prohibit stock ownership transfers that
 would result in a new 5-percent holder or increase the stock ownership percentage of an existing 5-percent
 holder);
- The value of the NOLs;
- Shareholder protection mechanisms (sunset provision or commitment to cause expiration of the protective amendment upon exhaustion or expiration of the NOL);
- The company's existing governance structure including: board independence, existing takeover defenses, track record of responsiveness to shareholders, and any other problematic governance concerns; and
- Any other factors that may be applicable.

Poison Pills (Shareholder Rights Plans)

Shareholder Proposals to Put Pill to a Vote and/or Adopt a Pill Policy

General Recommendation: Vote for shareholder proposals requesting that the company submit its poison pill to a shareholder vote or redeem it unless the company has: (1) A shareholder-approved poison pill in place; or (2) The company has adopted a policy concerning the adoption of a pill in the future specifying that the board will only adopt a shareholder rights plan if either:

- Shareholders have approved the adoption of the plan; or
- The board, in its exercise of its fiduciary responsibilities, determines that it is in the best interest of shareholders under the circumstances to adopt a pill without the delay in adoption that would result from seeking stockholder approval (i.e., the "fiduciary out" provision). A poison pill adopted under this fiduciary out will be put to a shareholder ratification vote within 12 months of adoption or expire. If the pill is not approved by a majority of the votes cast on this issue, the plan will immediately terminate.

If the shareholder proposal calls for a time period of less than 12 months for shareholder ratification after adoption, vote for the proposal, but add the caveat that a vote within 12 months would be considered sufficient implementation.

Management Proposals to Ratify a Poison Pill

General Recommendation: Vote case-by-case on management proposals on poison pill ratification, focusing on the features of the shareholder rights plan. Rights plans should contain the following attributes:

- No lower than a 20 percent trigger, flip-in or flip-over;
- A term of no more than three years;
- No deadhand, slowhand, no-hand, or similar feature that limits the ability of a future board to redeem the pill;
- Shareholder redemption feature (qualifying offer clause); if the board refuses to redeem the pill 90 days after a qualifying offer is announced, 10 percent of the shares may call a special meeting or seek a written consent to vote on rescinding the pill.

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In addition, the rationale for adopting the pill should be thoroughly explained by the company. In examining the request for the pill, take into consideration the company's existing governance structure, including: board independence, existing takeover defenses, and any problematic governance concerns.

Management Proposals to Ratify a Pill to Preserve Net Operating Losses (NOLs)

General Recommendation: Vote against proposals to adopt a poison pill for the stated purpose of protecting a company's net operating losses (NOL) if the term of the pill would exceed the shorter of three years and the exhaustion of the NOL.

Vote case-by-case on management proposals for poison pill ratification, considering the following factors, if the term of the pill would be the shorter of three years (or less) and the exhaustion of the NOL:

- The ownership threshold to transfer (NOL pills generally have a trigger slightly below 5 percent);
- The value of the NOLs;
- Shareholder protection mechanisms (sunset provision, or commitment to cause expiration of the pill upon exhaustion or expiration of NOLs);
- The company's existing governance structure, including: board independence, existing takeover defenses, track record of responsiveness to shareholders, and any other problematic governance concerns; and
- Any other factors that may be applicable.

Proxy Voting Disclosure, Confidentiality, and Tabulation

General Recommendation: Vote case-by-case on proposals regarding proxy voting mechanics, taking into consideration whether implementation of the proposal is likely to enhance or protect shareholder rights. Specific issues covered under the policy include, but are not limited to, confidential voting of individual proxies and ballots, confidentiality of running vote tallies, and the treatment of abstentions and/or broker non-votes in the company's vote-counting methodology.

While a variety of factors may be considered in each analysis, the guiding principles are: transparency, consistency, and fairness in the proxy voting process. The factors considered, as applicable to the proposal, may include:

- The scope and structure of the proposal;
- The company's stated confidential voting policy (or other relevant policies) and whether it ensures a "level playing field" by providing shareholder proponents with equal access to vote information prior to the annual meeting;
- The company's vote standard for management and shareholder proposals and whether it ensures consistency and fairness in the proxy voting process and maintains the integrity of vote results;
- Whether the company's disclosure regarding its vote counting method and other relevant voting policies with respect to management and shareholder proposals are consistent and clear;
- Any recent controversies or concerns related to the company's proxy voting mechanics;
- Any unintended consequences resulting from implementation of the proposal; and
- Any other factors that may be relevant.

Ratification Proposals: Management Proposals to Ratify Existing Charter or Bylaw Provisions

General Recommendation: Generally vote against management proposals to ratify provisions of the company's existing charter or bylaws, unless these governance provisions align with best practice.

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In addition, voting against/withhold from individual directors, members of the governance committee, or the full board may be warranted, considering:

- The presence of a shareholder proposal addressing the same issue on the same ballot;
- The board's rationale for seeking ratification;
- Disclosure of actions to be taken by the board should the ratification proposal fail;
- Disclosure of shareholder engagement regarding the board's ratification request;
- The level of impairment to shareholders' rights caused by the existing provision;
- The history of management and shareholder proposals on the provision at the company's past meetings;
- Whether the current provision was adopted in response to the shareholder proposal;
- The company's ownership structure; and
- Previous use of ratification proposals to exclude shareholder proposals.

Reimbursing Proxy Solicitation Expenses

General Recommendation: Vote case-by-case on proposals to reimburse proxy solicitation expenses.

When voting in conjunction with support of a dissident slate, vote for the reimbursement of all appropriate proxy solicitation expenses associated with the election.

Generally vote for shareholder proposals calling for the reimbursement of reasonable costs incurred in connection with nominating one or more candidates in a contested election where the following apply:

- The election of fewer than 50 percent of the directors to be elected is contested in the election;
- One or more of the dissident's candidates is elected;
- Shareholders are not permitted to cumulate their votes for directors; and
- The election occurred, and the expenses were incurred, after the adoption of this bylaw.

Reincorporation Proposals

General Recommendation: Management or shareholder proposals to change a company's state of incorporation should be evaluated case-by-case, giving consideration to both financial and corporate governance concerns including the following:

- Reasons for reincorporation;
- Comparison of company's governance practices and provisions prior to and following the reincorporation; and
- Comparison of corporation laws of original state and destination state.

Vote for reincorporation when the economic factors outweigh any neutral or negative governance changes.

Shareholder Ability to Act by Written Consent

General Recommendation: Generally vote against management and shareholder proposals to restrict or prohibit shareholders' ability to act by written consent.

Generally vote for management and shareholder proposals that provide shareholders with the ability to act by written consent, taking into account the following factors:

- Shareholders' current right to act by written consent;
- The consent threshold;
- The inclusion of exclusionary or prohibitive language;

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- Investor ownership structure; and
- Shareholder support of, and management's response to, previous shareholder proposals.

Vote case-by-case on shareholder proposals if, in addition to the considerations above, the company has the following governance and antitakeover provisions:

- An unfettered¹³ right for shareholders to call special meetings at a 10 percent threshold;
- A majority vote standard in uncontested director elections;
- No non-shareholder-approved pill; and
- An annually elected board.

Shareholder Ability to Call Special Meetings

General Recommendation: Vote against management or shareholder proposals to restrict or prohibit shareholders' ability to call special meetings.

Generally vote for management or shareholder proposals that provide shareholders with the ability to call special meetings taking into account the following factors:

- Shareholders' current right to call special meetings;
- Minimum ownership threshold necessary to call special meetings (10 percent preferred);
- The inclusion of exclusionary or prohibitive language;
- Investor ownership structure; and
- Shareholder support of, and management's response to, previous shareholder proposals.

Stakeholder Provisions

General Recommendation: Vote against proposals that ask the board to consider non-shareholder constituencies or other non-financial effects when evaluating a merger or business combination.

State Antitakeover Statutes

General Recommendation: Vote case-by-case on proposals to opt in or out of state takeover statutes (including fair price provisions, stakeholder laws, poison pill endorsements, severance pay and labor contract provisions, and anti-greenmail provisions).

Supermajority Vote Requirements

General Recommendation: Vote against proposals to require a supermajority shareholder vote.

Vote for management or shareholder proposals to reduce supermajority vote requirements. However, for companies with shareholder(s) who have significant ownership levels, vote case-by-case, taking into account:

- Ownership structure;
- Quorum requirements; and
- Vote requirements.

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¹³ "Unfettered" means no restrictions on agenda items, no restrictions on the number of shareholders who can group together to reach the 10 percent threshold, and only reasonable limits on when a meeting can be called: no greater than 30 days after the last annual meeting and no greater than 90 prior to the next annual meeting.



Virtual Shareholder Meetings

General Recommendation: Generally vote for management proposals allowing for the convening of shareholder meetings by electronic means, so long as they do not preclude in-person meetings. Companies are encouraged to disclose the circumstances under which virtual-only¹⁴ meetings would be held, and to allow for comparable rights and opportunities for shareholders to participate electronically as they would have during an in-person meeting.

Vote case-by-case on shareholder proposals concerning virtual-only meetings, considering:

- Scope and rationale of the proposal; and
- Concerns identified with the company's prior meeting practices.

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¹⁴ Virtual-only shareholder meeting" refers to a meeting of shareholders that is held exclusively using technology without a corresponding in-person meeting.



4. Capital/Restructuring

Capital

Adjustments to Par Value of Common Stock

General Recommendation: Vote for management proposals to reduce the par value of common stock unless the action is being taken to facilitate an anti-takeover device or some other negative corporate governance action.

Vote for management proposals to eliminate par value.

Common Stock Authorization

General Authorization Requests

General Recommendation: Vote case-by-case on proposals to increase the number of authorized shares of common stock that are to be used for general corporate purposes:

- If share usage (outstanding plus reserved) is less than 50% of the current authorized shares, vote for an increase of up to **50**% of current authorized shares.
- If share usage is 50% to 100% of the current authorized, vote for an increase of up to **100**% of current authorized shares.
- If share usage is greater than current authorized shares, vote for an increase of up to the current share usage.
- In the case of a stock split, the allowable increase is calculated (per above) based on the post-split adjusted authorization.

Generally vote against proposed increases, even if within the above ratios, if the proposal or the company's prior or ongoing use of authorized shares is problematic, including, but not limited to:

- The proposal seeks to increase the number of authorized shares of the class of common stock that has superior voting rights to other share classes;
- On the same ballot is a proposal for a reverse split for which support is warranted despite the fact that it would result in an excessive increase in the share authorization;
- The company has a non-shareholder approved poison pill (including an NOL pill); or
- The company has previous sizeable placements (within the past 3 years) of stock with insiders at prices substantially below market value, or with problematic voting rights, without shareholder approval.

However, generally vote for proposed increases beyond the above ratios or problematic situations when there is disclosure of specific and severe risks to shareholders of not approving the request, such as:

- In, or subsequent to, the company's most recent 10-K filing, the company discloses that there is substantial doubt about its ability to continue as a going concern;
- The company states that there is a risk of imminent bankruptcy or imminent liquidation if shareholders do not approve the increase in authorized capital; or
- A government body has in the past year required the company to increase its capital ratios.

For companies incorporated in states that allow increases in authorized capital without shareholder approval, generally vote withhold or against all nominees if a unilateral capital authorization increase does not conform to the above policies.

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Specific Authorization Requests

General Recommendation: Generally vote for proposals to increase the number of authorized common shares where the primary purpose of the increase is to issue shares in connection with transaction(s) (such as acquisitions, SPAC transactions, private placements, or similar transactions) on the same ballot, or disclosed in the proxy statement, that warrant support. For such transactions, the allowable increase will be the greater of:

- twice the amount needed to support the transactions on the ballot, and
- the allowable increase as calculated for general issuances above.

Dual Class Structure

General Recommendation: Generally vote against proposals to create a new class of common stock unless:

- The company discloses a compelling rationale for the dual-class capital structure, such as:
- The company's auditor has concluded that there is substantial doubt about the company's ability to continue as a going concern; or
- The new class of shares will be transitory;
- The new class is intended for financing purposes with minimal or no dilution to current shareholders in both the short term and long term; and
- The new class is not designed to preserve or increase the voting power of an insider or significant shareholder.

Issue Stock for Use with Rights Plan

General Recommendation: Vote against proposals that increase authorized common stock for the explicit purpose of implementing a non-shareholder-approved shareholder rights plan (poison pill).

Preemptive Rights

General Recommendation: Vote case-by-case on shareholder proposals that seek preemptive rights, taking into consideration:

- The size of the company;
- The shareholder base; and
- The liquidity of the stock.

Preferred Stock Authorization

General Authorization Requests

General Recommendation: Vote case-by-case on proposals to increase the number of authorized shares of preferred stock that are to be used for general corporate purposes:

- If share usage (outstanding plus reserved) is less than 50% of the current authorized shares, vote for an increase of up to **50**% of current authorized shares.
- If share usage is 50% to 100% of the current authorized, vote for an increase of up to 100% of current authorized shares.
- If share usage is greater than current authorized shares, vote for an increase of up to the current share usage.

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- In the case of a stock split, the allowable increase is calculated (per above) based on the post-split adjusted authorization.
- If no preferred shares are currently issued and outstanding, vote against the request, unless the company discloses a specific use for the shares.

Generally vote against proposed increases, even if within the above ratios, if the proposal or the company's prior or ongoing use of authorized shares is problematic, including, but not limited to:

- If the shares requested are blank check preferred shares that can be used for antitakeover purposes; 15
- The company seeks to increase a class of non-convertible preferred shares entitled to more than one vote per share on matters that do not solely affect the rights of preferred stockholders "supervoting shares");
- The company seeks to increase a class of convertible preferred shares entitled to a number of votes greater than the number of common shares into which they are convertible ("supervoting shares") on matters that do not solely affect the rights of preferred stockholders;
- The stated intent of the increase in the general authorization is to allow the company to increase an existing designated class of supervoting preferred shares;
- On the same ballot is a proposal for a reverse split for which support is warranted despite the fact that it would result in an excessive increase in the share authorization;
- The company has a non-shareholder approved poison pill (including an NOL pill); or
- The company has previous sizeable placements (within the past 3 years) of stock with insiders at prices substantially below market value, or with problematic voting rights, without shareholder approval.

However, generally vote for proposed increases beyond the above ratios or problematic situations when there is disclosure of specific and severe risks to shareholders of not approving the request, such as:

- In, or subsequent to, the company's most recent 10-K filing, the company discloses that there is substantial doubt about its ability to continue as a going concern;
- The company states that there is a risk of imminent bankruptcy or imminent liquidation if shareholders do not approve the increase in authorized capital; or
- A government body has in the past year required the company to increase its capital ratios.

For companies incorporated in states that allow increases in authorized capital without shareholder approval, generally vote withhold or against all nominees if a unilateral capital authorization increase does not conform to the above policies.

Specific Authorization Requests

General Recommendation: Generally vote for proposals to increase the number of authorized preferred shares where the primary purpose of the increase is to issue shares in connection with transaction(s) (such as acquisitions, SPAC transactions, private placements, or similar transactions) on the same ballot, or disclosed in the proxy statement, that warrant support. For such transactions, the allowable increase will be the greater of:

- twice the amount needed to support the transactions on the ballot, and
- the allowable increase as calculated for general issuances above.

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¹⁵ To be acceptable, appropriate disclosure would be needed that the shares are "declawed": i.e., representation by the board that it will not, without prior stockholder approval, issue or use the preferred stock for any defensive or anti-takeover purpose or for the purpose of implementing any stockholder rights plan.



Recapitalization Plans

General Recommendation: Vote case-by-case on recapitalizations (reclassifications of securities), taking into account the following:

- More simplified capital structure;
- Enhanced liquidity;
- Fairness of conversion terms;
- Impact on voting power and dividends;
- Reasons for the reclassification;
- Conflicts of interest; and
- Other alternatives considered.

Reverse Stock Splits

General Recommendation: Vote for management proposals to implement a reverse stock split if:

- The number of authorized shares will be proportionately reduced; or
- The effective increase in authorized shares is equal to or less than the allowable increase calculated in accordance with ISS' <u>Common Stock Authorization</u> policy.

Vote case-by-case on proposals that do not meet either of the above conditions, taking into consideration the following factors:

- Stock exchange notification to the company of a potential delisting;
- Disclosure of substantial doubt about the company's ability to continue as a going concern without additional financing;
- The company's rationale; or
- Other factors as applicable.

Share Issuance Mandates at U.S. Domestic Issuers Incorporated Outside the U.S.

General Recommendation: For U.S. domestic issuers incorporated outside the U.S. and listed <u>solely</u> on a U.S. exchange, generally vote for resolutions to authorize the issuance of common shares up to 20 percent of currently issued common share capital, where not tied to a specific transaction or financing proposal.

For pre-revenue or other early-stage companies that are heavily reliant on periodic equity financing, generally vote for resolutions to authorize the issuance of common shares up to 50 percent of currently issued common share capital. The burden of proof will be on the company to establish that it has a need for the higher limit.

Renewal of such mandates should be sought at each year's annual meeting.

Vote case-by-case on share issuances for a specific transaction or financing proposal.

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Share Repurchase Programs

General Recommendation: For U.S.-incorporated companies, and foreign-incorporated U.S. Domestic Issuers that are traded solely on U.S. exchanges, vote for management proposals to institute open-market share repurchase plans in which all shareholders may participate on equal terms, or to grant the board authority to conduct open-market repurchases, in the absence of company-specific concerns regarding:

- Greenmail;
- The use of buybacks to inappropriately manipulate incentive compensation metrics;
- Threats to the company's long-term viability; or
- Other company-specific factors as warranted.

Vote case-by-case on proposals to repurchase shares directly from specified shareholders, balancing the stated rationale against the possibility for the repurchase authority to be misused, such as to repurchase shares from insiders at a premium to market price.

Share Repurchase Programs Shareholder Proposals

General Recommendation: Generally vote against shareholder proposals prohibiting executives from selling shares of company stock during periods in which the company has announced that it may or will be repurchasing shares of its stock. Vote for the proposal when there is a pattern of abuse by executives exercising options or selling shares during periods of share buybacks.

Stock Distributions: Splits and Dividends

General Recommendation: Generally vote for management proposals to increase the common share authorization for stock split or stock dividend, provided that the effective increase in authorized shares is equal to or is less than the allowable increase calculated in accordance with ISS' Common Stock Authorization policy.

Tracking Stock

General Recommendation: Vote case-by-case on the creation of tracking stock, weighing the strategic value of the transaction against such factors as:

- Adverse governance changes;
- Excessive increases in authorized capital stock;
- Unfair method of distribution;
- Diminution of voting rights;
- Adverse conversion features;
- Negative impact on stock option plans; and
- Alternatives such as spin-off.

Restructuring

Appraisal Rights

General Recommendation: Vote for proposals to restore or provide shareholders with rights of appraisal.

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Asset Purchases

General Recommendation: Vote case-by-case on asset purchase proposals, considering the following factors:

- Purchase price;
- Fairness opinion;
- Financial and strategic benefits;
- How the deal was negotiated;
- Conflicts of interest;
- Other alternatives for the business;
- Non-completion risk.

Asset Sales

General Recommendation: Vote case-by-case on asset sales, considering the following factors:

- Impact on the balance sheet/working capital;
- Potential elimination of diseconomies;
- Anticipated financial and operating benefits;
- Anticipated use of funds;
- Value received for the asset;
- Fairness opinion;
- How the deal was negotiated;
- Conflicts of interest.

Bundled Proposals

General Recommendation: Vote case-by-case on bundled or "conditional" proxy proposals. In the case of items that are conditioned upon each other, examine the benefits and costs of the packaged items. In instances when the joint effect of the conditioned items is not in shareholders' best interests, vote against the proposals. If the combined effect is positive, support such proposals.

Conversion of Securities

General Recommendation: Vote case-by-case on proposals regarding conversion of securities. When evaluating these proposals, the investor should review the dilution to existing shareholders, the conversion price relative to market value, financial issues, control issues, termination penalties, and conflicts of interest.

Vote for the conversion if it is expected that the company will be subject to onerous penalties or will be forced to file for bankruptcy if the transaction is not approved.

Corporate Reorganization/Debt Restructuring/Prepackaged Bankruptcy Plans/Reverse Leveraged Buyouts/Wrap Plans

General Recommendation: Vote case-by-case on proposals to increase common and/or preferred shares and to issue shares as part of a debt restructuring plan, after evaluating:

- Dilution to existing shareholders' positions;
- Terms of the offer discount/premium in purchase price to investor, including any fairness opinion; termination penalties; exit strategy;

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- Financial issues company's financial situation; degree of need for capital; use of proceeds; effect of the financing on the company's cost of capital;
- Management's efforts to pursue other alternatives;
- Control issues change in management; change in control, guaranteed board and committee seats; standstill
 provisions; voting agreements; veto power over certain corporate actions; and
- Conflict of interest arm's length transaction, managerial incentives.

Vote for the debt restructuring if it is expected that the company will file for bankruptcy if the transaction is not approved.

Formation of Holding Company

General Recommendation: Vote case-by-case on proposals regarding the formation of a holding company, taking into consideration the following:

- The reasons for the change;
- Any financial or tax benefits;
- Regulatory benefits;
- Increases in capital structure; and
- Changes to the articles of incorporation or bylaws of the company.

Absent compelling financial reasons to recommend for the transaction, vote against the formation of a holding company if the transaction would include either of the following:

- Increases in common or preferred stock in excess of the allowable maximum (see discussion under "Capital");
 or
- Adverse changes in shareholder rights.

Going Private and Going Dark Transactions (LBOs and Minority Squeezeouts)

General Recommendation: Vote case-by-case on going private transactions, taking into account the following:

- Offer price/premium;
- Fairness opinion;
- How the deal was negotiated;
- Conflicts of interest;
- Other alternatives/offers considered; and
- Non-completion risk.

Vote case-by-case on going dark transactions, determining whether the transaction enhances shareholder value by taking into consideration:

- Whether the company has attained benefits from being publicly-traded (examination of trading volume, liquidity, and market research of the stock);
- Balanced interests of continuing vs. cashed-out shareholders, taking into account the following:
- Are all shareholders able to participate in the transaction?
- Will there be a liquid market for remaining shareholders following the transaction?
- Does the company have strong corporate governance?
- Will insiders reap the gains of control following the proposed transaction?
- Does the state of incorporation have laws requiring continued reporting that may benefit shareholders?

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Joint Ventures

General Recommendation: Vote case-by-case on proposals to form joint ventures, taking into account the following:

- Percentage of assets/business contributed;
- Percentage ownership;
- Financial and strategic benefits;
- Governance structure;
- Conflicts of interest;
- Other alternatives; and
- Non-completion risk.

Liquidations

General Recommendation: Vote case-by-case on liquidations, taking into account the following:

- Management's efforts to pursue other alternatives;
- Appraisal value of assets; and
- The compensation plan for executives managing the liquidation.

Vote for the liquidation if the company will file for bankruptcy if the proposal is not approved.

Mergers and Acquisitions

General Recommendation: Vote case-by-case on mergers and acquisitions. Review and evaluate the merits and drawbacks of the proposed transaction, balancing various and sometimes countervailing factors including:

- *Valuation* Is the value to be received by the target shareholders (or paid by the acquirer) reasonable? While the fairness opinion may provide an initial starting point for assessing valuation reasonableness, emphasis is placed on the offer premium, market reaction, and strategic rationale.
- Market reaction How has the market responded to the proposed deal? A negative market reaction should cause closer scrutiny of a deal.
- Strategic rationale Does the deal make sense strategically? From where is the value derived? Cost and
 revenue synergies should not be overly aggressive or optimistic, but reasonably achievable. Management
 should also have a favorable track record of successful integration of historical acquisitions.
- Negotiations and process Were the terms of the transaction negotiated at arm's-length? Was the process fair and equitable? A fair process helps to ensure the best price for shareholders. Significant negotiation "wins" can also signify the deal makers' competency. The comprehensiveness of the sales process (e.g., full auction, partial auction, no auction) can also affect shareholder value.
- Conflicts of interest Are insiders benefiting from the transaction disproportionately and inappropriately as compared to non-insider shareholders? As the result of potential conflicts, the directors and officers of the company may be more likely to vote to approve a merger than if they did not hold these interests. Consider whether these interests may have influenced these directors and officers to support or recommend the merger. The CIC figure presented in the "ISS Transaction Summary" section of this report is an aggregate figure that can in certain cases be a misleading indicator of the true value transfer from shareholders to insiders. Where such figure appears to be excessive, analyze the underlying assumptions to determine whether a potential conflict exists.
- Governance Will the combined company have a better or worse governance profile than the current governance profiles of the respective parties to the transaction? If the governance profile is to change for the

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worse, the burden is on the company to prove that other issues (such as valuation) outweigh any deterioration in governance.

Private Placements/Warrants/Convertible Debentures

General Recommendation: Vote case-by-case on proposals regarding private placements, warrants, and convertible debentures taking into consideration:

- Dilution to existing shareholders' position: The amount and timing of shareholder ownership dilution should be weighed against the needs and proposed shareholder benefits of the capital infusion. Although newly issued common stock, absent preemptive rights, is typically dilutive to existing shareholders, share price appreciation is often the necessary event to trigger the exercise of "out of the money" warrants and convertible debt. In these instances from a value standpoint, the negative impact of dilution is mitigated by the increase in the company's stock price that must occur to trigger the dilutive event.
- Terms of the offer (discount/premium in purchase price to investor, including any fairness opinion, conversion features, termination penalties, exit strategy):
 - The terms of the offer should be weighed against the alternatives of the company and in light of company's financial condition. Ideally, the conversion price for convertible debt and the exercise price for warrants should be at a premium to the then prevailing stock price at the time of private placement.
 - When evaluating the magnitude of a private placement discount or premium, consider factors that
 influence the discount or premium, such as, liquidity, due diligence costs, control and monitoring costs,
 capital scarcity, information asymmetry, and anticipation of future performance.
- Financial issues:
 - The company's financial condition;
 - Degree of need for capital;
 - Use of proceeds;
 - Effect of the financing on the company's cost of capital;
 - Current and proposed cash burn rate;
 - Going concern viability and the state of the capital and credit markets.
- Management's efforts to pursue alternatives and whether the company engaged in a process to evaluate
 alternatives: A fair, unconstrained process helps to ensure the best price for shareholders. Financing
 alternatives can include joint ventures, partnership, merger, or sale of part or all of the company.
- Control issues:
 - Change in management;
 - Change in control;
 - Guaranteed board and committee seats;
 - Standstill provisions;
 - Voting agreements;
 - Veto power over certain corporate actions; and
 - Minority versus majority ownership and corresponding minority discount or majority control premium.
- Conflicts of interest:
 - Conflicts of interest should be viewed from the perspective of the company and the investor.
 - Were the terms of the transaction negotiated at arm's length? Are managerial incentives aligned with shareholder interests?
- Market reaction:

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The market's response to the proposed deal. A negative market reaction is a cause for concern. Market reaction may be addressed by analyzing the one-day impact on the unaffected stock price.

Vote for the private placement, or for the issuance of warrants and/or convertible debentures in a private placement, if it is expected that the company will file for bankruptcy if the transaction is not approved.

Reorganization/Restructuring Plan (Bankruptcy)

General Recommendation: Vote case-by-case on proposals to common shareholders on bankruptcy plans of reorganization, considering the following factors including, but not limited to:

- Estimated value and financial prospects of the reorganized company;
- Percentage ownership of current shareholders in the reorganized company;
- Whether shareholders are adequately represented in the reorganization process (particularly through the existence of an Official Equity Committee);
- The cause(s) of the bankruptcy filing, and the extent to which the plan of reorganization addresses the cause(s);
- Existence of a superior alternative to the plan of reorganization; and
- Governance of the reorganized company.

Special Purpose Acquisition Corporations (SPACs)

General Recommendation: Vote case-by-case on SPAC mergers and acquisitions taking into account the following:

- Valuation Is the value being paid by the SPAC reasonable? SPACs generally lack an independent fairness opinion and the financials on the target may be limited. Compare the conversion price with the intrinsic value of the target company provided in the fairness opinion. Also, evaluate the proportionate value of the combined entity attributable to the SPAC IPO shareholders versus the pre-merger value of SPAC. Additionally, a private company discount may be applied to the target if it is a private entity.
- Market reaction How has the market responded to the proposed deal? A negative market reaction may be a
 cause for concern. Market reaction may be addressed by analyzing the one-day impact on the unaffected
 stock price.
- Deal timing A main driver for most transactions is that the SPAC charter typically requires the deal to be complete within 18 to 24 months, or the SPAC is to be liquidated. Evaluate the valuation, market reaction, and potential conflicts of interest for deals that are announced close to the liquidation date.
- Negotiations and process What was the process undertaken to identify potential target companies within specified industry or location specified in charter? Consider the background of the sponsors.
- Conflicts of interest How are sponsors benefiting from the transaction compared to IPO shareholders? Potential conflicts could arise if a fairness opinion is issued by the insiders to qualify the deal rather than a third party or if management is encouraged to pay a higher price for the target because of an 80 percent rule (the charter requires that the fair market value of the target is at least equal to 80 percent of net assets of the SPAC). Also, there may be sense of urgency by the management team of the SPAC to close the deal since its charter typically requires a transaction to be completed within the 18-24-month timeframe.
- Voting agreements Are the sponsors entering into enter into any voting agreements/tender offers with shareholders who are likely to vote against the proposed merger or exercise conversion rights?
- Governance What is the impact of having the SPAC CEO or founder on key committees following the proposed merger?

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Special Purpose Acquisition Corporations (SPACs) - Proposals for Extensions

General Recommendation: Vote case-by-case on SPAC extension proposals taking into account the length of the requested extension, the status of any pending transaction(s) or progression of the acquisition process, any added incentive for non-redeeming shareholders, and any prior extension requests.

- Length of request: Typically, extension requests range from two to six months, depending on the progression of the SPAC's acquistion process.
- Pending transaction(s) or progression of the acquisition process: Sometimes an intial business combination was already put to a shareholder vote, but, for varying reasons, the transaction could not be consummated by the termination date and the SPAC is requesting an extension. Other times, the SPAC has entered into a definitive transaction agreement, but needs additional time to consummate or hold the shareholder meeting.
- Added incentive for non-redeeming shareholders: Sometimes the SPAC sponsor (or other insiders) will contribute, typically as a loan to the company, additional funds that will be added to the redemption value of each public share as long as such shares are not redeemed in connection with the extension request. The purpose of the "equity kicker" is to incentivize shareholders to hold their shares through the end of the requested extension or until the time the transaction is put to a shareholder vote, rather than electing redeemption at the extension proposal meeting.
- Prior extension requests: Some SPACs request additional time beyond the extension period sought in prior extension requests.

Spin-offs

General Recommendation: Vote case-by-case on spin-offs, considering:

- Tax and regulatory advantages;
- Planned use of the sale proceeds;
- Valuation of spinoff;
- Fairness opinion;
- Benefits to the parent company;
- Conflicts of interest;
- Managerial incentives;
- Corporate governance changes;
- Changes in the capital structure.

Value Maximization Shareholder Proposals

General Recommendation: Vote case-by-case on shareholder proposals seeking to maximize shareholder value by:

- Hiring a financial advisor to explore strategic alternatives;
- Selling the company; or
- Liquidating the company and distributing the proceeds to shareholders.

These proposals should be evaluated based on the following factors:

- Prolonged poor performance with no turnaround in sight;
- Signs of entrenched board and management (such as the adoption of takeover defenses);
- Strategic plan in place for improving value;
- Likelihood of receiving reasonable value in a sale or dissolution; and
- The company actively exploring its strategic options, including retaining a financial advisor.

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5. Compensation

Executive Pay Evaluation

Underlying all evaluations are five global principles that most investors expect corporations to adhere to in designing and administering executive and director compensation programs:

- 1. Maintain appropriate pay-for-performance alignment, with emphasis on long-term shareholder value: This principle encompasses overall executive pay practices, which must be designed to attract, retain, and appropriately motivate the key employees who drive shareholder value creation over the long term. It will take into consideration, among other factors, the link between pay and performance; the mix between fixed and variable pay; performance goals; and equity-based plan costs;
- 2. Avoid arrangements that risk "pay for failure": This principle addresses the appropriateness of long or indefinite contracts, excessive severance packages, and guaranteed compensation;
- 3. Maintain an independent and effective compensation committee: This principle promotes oversight of executive pay programs by directors with appropriate skills, knowledge, experience, and a sound process for compensation decision-making (e.g., including access to independent expertise and advice when needed);
- 4. Provide shareholders with clear, comprehensive compensation disclosures: This principle underscores the importance of informative and timely disclosures that enable shareholders to evaluate executive pay practices fully and fairly;
- 5. Avoid inappropriate pay to non-executive directors: This principle recognizes the interests of shareholders in ensuring that compensation to outside directors is reasonable and does not compromise their independence and ability to make appropriate judgments in overseeing managers' pay and performance. At the market level, it may incorporate a variety of generally accepted best practices.

Advisory Votes on Executive Compensation—Management Proposals (Sayon-Pay)

General Recommendation: Vote case-by-case on ballot items related to executive pay and practices, as well as certain aspects of outside director compensation.

Vote against Advisory Votes on Executive Compensation (Say-on-Pay or "SOP") if:

- There is an unmitigated misalignment between CEO pay and company performance (pay for performance);
- The company maintains significant <u>problematic pay practices</u>;
- The board exhibits a significant level of poor communication and responsiveness to shareholders.

Vote against or withhold from the members of the Compensation Committee and potentially the full board if:

- There is no SOP on the ballot, and an against vote on an SOP would otherwise be warranted due to pay-forperformance misalignment, problematic pay practices, or the lack of adequate responsiveness on compensation issues raised previously, or a combination thereof;
- The board fails to respond adequately to a previous SOP proposal that received less than 70 percent support of votes cast;
- The company has recently practiced or approved problematic pay practices, such as option repricing or option backdating; or
- The situation is egregious.

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Primary Evaluation Factors for Executive Pay

Pay-for-Performance Evaluation

ISS annually conducts a pay-for-performance analysis to identify strong or satisfactory alignment between pay and performance over a sustained period. With respect to companies in the S&P1500, Russell 3000, or Russell 3000E Indices¹⁶, this analysis considers the following:

- 1. Peer Group¹⁷ Alignment:
- The degree of alignment between the company's annualized TSR rank and the CEO's annualized total pay rank within a peer group, each measured over a three-year period.
- The rankings of CEO total pay and company financial performance within a peer group, each measured over a three-year period.
- The multiple of the CEO's total pay relative to the peer group median in the most recent fiscal year.
- 2. Absolute Alignment¹⁸ the absolute alignment between the trend in CEO pay and company TSR over the prior five fiscal years i.e., the difference between the trend in annual pay changes and the trend in annualized TSR during the period.

If the above analysis demonstrates significant unsatisfactory long-term pay-for-performance alignment or, in the case of companies outside the Russell indices, a misalignment between pay and performance is otherwise suggested, our analysis may include any of the following qualitative factors, as relevant to an evaluation of how various pay elements may work to encourage or to undermine long-term value creation and alignment with shareholder interests:

- The ratio of performance- to time-based incentive awards;
- The overall ratio of performance-based compensation to fixed or discretionary pay;
- The rigor of performance goals;
- The complexity and risks around pay program design;
- The transparency and clarity of disclosure;
- The company's peer group benchmarking practices;
- Financial/operational results, both absolute and relative to peers;
- Special circumstances related to, for example, a new CEO in the prior FY or anomalous equity grant practices (e.g., bi-annual awards);
- Realizable pay¹⁹ compared to grant pay; and
- Any other factors deemed relevant.

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¹⁶ The Russell 3000E Index includes approximately 4,000 of the largest U.S. equity securities.

¹⁷ The revised peer group is generally comprised of 14-24 companies that are selected using market cap, revenue (or assets for certain financial firms), GICS industry group, and company's selected peers' GICS industry group, with size constraints, via a process designed to select peers that are comparable to the subject company in terms of revenue/assets and industry, and also within a market-cap bucket that is reflective of the company's market cap. For Oil, Gas & Consumable Fuels companies, market cap is the only size determinant.

¹⁸ Only Russell 3000 Index companies are subject to the Absolute Alignment analysis.

¹⁹ ISS research reports include realizable pay for S&P1500 companies.



Problematic Pay Practices

Problematic pay elements are generally evaluated case-by-case considering the context of a company's overall pay program and demonstrated pay-for-performance philosophy. The focus is on executive compensation practices that contravene the global pay principles, including:

- Problematic practices related to non-performance-based compensation elements;
- Incentives that may motivate excessive risk-taking or present a windfall risk; and
- Pay decisions that circumvent pay-for-performance, such as options backdating or waiving performance requirements.

The list of examples below highlights certain problematic practices that carry significant weight in this overall consideration and may result in adverse vote recommendations:

- Repricing or replacing of underwater stock options/SARs without prior shareholder approval (including cash buyouts and voluntary surrender of underwater options);
- Extraordinary perquisites or tax gross-ups;
- New or materially amended agreements that provide for:
 - Excessive termination or CIC severance payments (generally exceeding 3 times base salary and average/target/most recent bonus);
 - CIC severance payments without involuntary job loss or substantial diminution of duties ("single" or "modified single" triggers) or in connection with a problematic Good Reason definition;
 - CIC excise tax gross-up entitlements (including "modified" gross-ups);
 - Multi-year guaranteed awards that are not at risk due to rigorous performance conditions;
- Liberal CIC definition combined with any single-trigger CIC benefits;
- Insufficient executive compensation disclosure by externally-managed issuers (EMIs) such that a reasonable assessment of pay programs and practices applicable to the EMI's executives is not possible;
- Severance payments made when the termination is not clearly disclosed as involuntary (for example, a termination without cause or resignation for good reason);
- Any other provision or practice deemed to be egregious and present a significant risk to investors.

The above examples are not an exhaustive list. Please refer to ISS' <u>U.S. Compensation Policies FAQ</u> document for additional detail on specific pay practices that have been identified as problematic and may lead to negative vote recommendations.

Options Backdating

The following factors should be examined case-by-case to allow for distinctions to be made between "sloppy" plan administration versus deliberate action or fraud:

- Reason and motive for the options backdating issue, such as inadvertent vs. deliberate grant date changes;
- Duration of options backdating;
- Size of restatement due to options backdating;
- Corrective actions taken by the board or compensation committee, such as canceling or re-pricing backdated options, the recouping of option gains on backdated grants; and
- Adoption of a grant policy that prohibits backdating and creates a fixed grant schedule or window period for equity grants in the future.

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Compensation Committee Communications and Responsiveness

Consider the following factors case-by-case when evaluating ballot items related to executive pay on the board's responsiveness to investor input and engagement on compensation issues:

- Failure to respond to majority-supported shareholder proposals on executive pay topics; or
- Failure to adequately respond to the company's previous say-on-pay proposal that received the support of less than 70 percent of votes cast, taking into account:
 - Disclosure of engagement efforts with major institutional investors, including the frequency and timing of engagements and the company participants (including whether independent directors participated);
 - Disclosure of the specific concerns voiced by dissenting shareholders that led to the say-on-pay opposition;
 - Disclosure of specific and meaningful actions taken to address shareholders' concerns;
 - Other recent compensation actions taken by the company;
 - Whether the issues raised are recurring or isolated;
 - The company's ownership structure; and
 - Whether the support level was less than 50 percent, which would warrant the highest degree of responsiveness.

Frequency of Advisory Vote on Executive Compensation ("Say When on Pay")

General Recommendation: Vote for annual advisory votes on compensation, which provide the most consistent and clear communication channel for shareholder concerns about companies' executive pay programs.

Voting on Golden Parachutes in an Acquisition, Merger, Consolidation, or Proposed Sale

General Recommendation: Vote case-by-case on say on Golden Parachute proposals, including consideration of existing change-in-control arrangements maintained with named executive officers but also considering new or extended arrangements.

Features that may result in an "against" recommendation include one or more of the following, depending on the number, magnitude, and/or timing of issue(s):

- Single- or modified-single-trigger cash severance;
- Single-trigger acceleration of unvested equity awards;
- Full acceleration of equity awards granted shortly before the change in control;
- Acceleration of performance awards above the target level of performance without compelling rationale;
- Excessive cash severance (generally >3x base salary and bonus);
- Excise tax gross-ups triggered and payable;
- Excessive golden parachute payments (on an absolute basis or as a percentage of transaction equity value); or
- Recent amendments that incorporate any problematic features (such as those above) or recent actions (such
 as extraordinary equity grants) that may make packages so attractive as to influence merger agreements that
 may not be in the best interests of shareholders; or
- The company's assertion that a proposed transaction is conditioned on shareholder approval of the golden parachute advisory vote.

Recent amendment(s) that incorporate problematic features will tend to carry more weight on the overall analysis. However, the presence of multiple legacy problematic features will also be closely scrutinized.

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In cases where the golden parachute vote is incorporated into a company's advisory vote on compensation (management say-on-pay), ISS will evaluate the say-on-pay proposal in accordance with these guidelines, which may give higher weight to that component of the overall evaluation.

Equity-Based and Other Incentive Plans

Please refer to ISS' <u>U.S. Equity Compensation Plans FAQ</u> document for additional details on the Equity Plan Scorecard policy.

General Recommendation: Vote case-by-case on certain equity-based compensation plans²⁰ depending on a combination of certain plan features and equity grant practices, where positive factors may counterbalance negative factors, and vice versa, as evaluated using an "Equity Plan Scorecard" (EPSC) approach with three pillars:

- Plan Cost: The total estimated cost of the company's equity plans relative to industry/market cap peers, measured by the company's estimated Shareholder Value Transfer (SVT) in relation to peers and considering both:
 - SVT based on new shares requested plus shares remaining for future grants, plus outstanding unvested/unexercised grants; and
 - SVT based only on new shares requested plus shares remaining for future grants.

Plan Features:

- Quality of disclosure around vesting upon a change in control (CIC);
- Discretionary vesting authority;
- Liberal share recycling on various award types;
- Lack of minimum vesting period for grants made under the plan;
- Dividends payable prior to award vesting.

Grant Practices:

- The company's three-year burn rate relative to its industry/market cap peers;
- Vesting requirements in CEO's recent equity grants (3-year look-back);
- The estimated duration of the plan (based on the sum of shares remaining available and the new shares requested, divided by the average annual shares granted in the prior three years);
- The proportion of the CEO's most recent equity grants/awards subject to performance conditions;
- Whether the company maintains a sufficient claw-back policy;
- Whether the company maintains sufficient post-exercise/vesting share-holding requirements.

Generally vote against the plan proposal if the combination of above factors indicates that the plan is not, overall, in shareholders' interests, or if any of the following egregious factors ("overriding factors") apply:

- Awards may vest in connection with a liberal change-of-control definition;
- The plan would permit repricing or cash buyout of underwater options without shareholder approval (either by expressly permitting it – for NYSE and Nasdaq listed companies – or by not prohibiting it when the company has a history of repricing – for non-listed companies);
- The plan is a vehicle for problematic pay practices or a significant pay-for-performance disconnect under certain circumstances;
- The plan is excessively dilutive to shareholders' holdings;
- The plan contains an evergreen (automatic share replenishment) feature; or

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²⁰ Proposals evaluated under the EPSC policy generally include those to approve or amend (1) stock option plans for employees and/or employees and directors, (2) restricted stock plans for employees and/or employees and directors, and (3) omnibus stock incentive plans for employees and/or employees and directors; amended plans will be further evaluated case-by-case.



Any other plan features are determined to have a significant negative impact on shareholder interests.

Further Information on certain EPSC Factors:

Shareholder Value Transfer (SVT)

The cost of the equity plans is expressed as Shareholder Value Transfer (SVT), which is measured using a binomial option pricing model that assesses the amount of shareholders' equity flowing out of the company to employees and directors. SVT is expressed as both a dollar amount and as a percentage of market value, and includes the new shares proposed, shares available under existing plans, and shares granted but unexercised (using two measures, in the case of plans subject to the Equity Plan Scorecard evaluation, as noted above). All award types are valued. For omnibus plans, unless limitations are placed on the most expensive types of awards (for example, full-value awards), the assumption is made that all awards to be granted will be the most expensive types.

For proposals that are not subject to the Equity Plan Scorecard evaluation, Shareholder Value Transfer is reasonable if it falls below a company-specific benchmark. The benchmark is determined as follows: The top quartile performers in each industry group (using the Global Industry Classification Standard: GICS) are identified. Benchmark SVT levels for each industry are established based on these top performers' historic SVT. Regression analyses are run on each industry group to identify the variables most strongly correlated to SVT. The benchmark industry SVT level is then adjusted upwards or downwards for the specific company by plugging the company-specific performance measures, size, and cash compensation into the industry cap equations to arrive at the company's benchmark.²¹

Three-Year Value-Adjusted Burn Rate

A "Value-Adjusted Burn Rate" is used for stock plan evaluations. Value-Adjusted Burn Rate benchmarks are calculated as the greater of: (1) an industry-specific threshold based on three-year burn rates within the company's GICS group segmented by S&P 500, Russell 3000 index (less the S&P 500) and non-Russell 3000 index; and (2) a *de minimis* threshold established separately for each of the S&P 500, the Russell 3000 index less the S&P 500, and the non-Russell 3000 index. Year-over-year burn-rate benchmark changes will be limited to a predetermined range above or below the prior year's burn-rate benchmark.

The Value-Adjusted Burn Rate is calculated as follows:

Value-Adjusted Burn Rate = ((# of options * option's dollar value using a Black-Scholes model) + (# of full-value awards * stock price)) / (Weighted average common shares * stock price).

Egregious Factors

Liberal Change in Control Definition

Generally vote against equity plans if the plan has a liberal definition of change in control and the equity awards could vest upon such liberal definition of change in control, even though an actual change in control may not occur. Examples of such a definition include, but are not limited to, announcement or commencement of a tender

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²¹ For plans evaluated under the Equity Plan Scorecard policy, the company's SVT benchmark is considered along with other factors.



offer, provisions for acceleration upon a "potential" takeover, shareholder approval of a merger or other transactions, or similar language.

Repricing Provisions

Vote against plans that expressly permit the repricing or exchange of underwater stock options/stock appreciate rights (SARs) without prior shareholder approval. "Repricing" typically includes the ability to do any of the following:

- Amend the terms of outstanding options or SARs to reduce the exercise price of such outstanding options or SARs:
- Cancel outstanding options or SARs in exchange for options or SARs with an exercise price that is less than the
 exercise price of the original options or SARs;
- Cancel underwater options in exchange for stock awards; or
- Provide cash buyouts of underwater options.

While the above cover most types of repricing, ISS may view other provisions as akin to repricing depending on the facts and circumstances.

Also, vote against or withhold from members of the Compensation Committee who approved repricing (as defined above or otherwise determined by ISS), without prior shareholder approval, even if such repricings are allowed in their equity plan.

Vote against plans that do not expressly prohibit repricing or cash buyout of underwater options without shareholder approval if the company has a history of repricing/buyouts without shareholder approval, and the applicable listing standards would not preclude them from doing so.

Problematic Pay Practices or Significant Pay-for-Performance Disconnect

If the equity plan on the ballot is a vehicle for problematic pay practices, vote against the plan.

ISS may recommend a vote against the equity plan if the plan is determined to be a vehicle for pay-for-performance misalignment. Considerations in voting against the equity plan may include, but are not limited to:

- Severity of the pay-for-performance misalignment;
- Whether problematic equity grant practices are driving the misalignment; and/or
- Whether equity plan awards have been heavily concentrated to the CEO and/or the other NEOs.

Amending Cash and Equity Plans (including Approval for Tax Deductibility (162(m))

General Recommendation: Vote case-by-case on amendments to cash and equity incentive plans.

Generally vote for proposals to amend executive cash, stock, or cash and stock incentive plans if the proposal:

- Addresses administrative features only; or
- Seeks approval for Section 162(m) purposes <u>only</u>, and the plan administering committee consists entirely of independent directors, per ISS' Classification of Directors. Note that if the company is presenting the plan to shareholders for the first time for any reason (including after the company's initial public offering), or if the proposal is bundled with other material plan amendments, then the recommendation will be case-by-case (see below).

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Vote against proposals to amend executive cash, stock, or cash and stock incentive plans if the proposal:

 Seeks approval for Section 162(m) purposes only, and the plan administering committee does not consist entirely of independent directors, per <u>ISS' Classification of Directors</u>.

Vote case-by-case on all other proposals to amend <u>cash</u> incentive plans. This includes plans presented to shareholders for the first time after the company's IPO and/or proposals that bundle material amendment(s) other than those for Section 162(m) purposes.

Vote case-by-case on all other proposals to amend equity incentive plans, considering the following:

- If the proposal requests additional shares and/or the amendments include a term extension or addition of full value awards as an award type, the recommendation will be based on the Equity Plan Scorecard evaluation as well as an analysis of the overall impact of the amendments.
- If the plan is being presented to shareholders for the first time (including after the company's IPO), whether or not additional shares are being requested, the recommendation will be based on the Equity Plan Scorecard evaluation as well as an analysis of the overall impact of any amendments.
- If there is no request for additional shares and the amendments do not include a term extension or addition of full value awards as an award type, then the recommendation will be based entirely on an analysis of the overall impact of the amendments, and the EPSC evaluation will be shown only for informational purposes.

In the first two case-by-case evaluation scenarios, the EPSC evaluation/score is the more heavily weighted consideration.

Specific Treatment of Certain Award Types in Equity Plan Evaluations

Dividend Equivalent Rights

Options that have Dividend Equivalent Rights (DERs) associated with them will have a higher calculated award value than those without DERs under the binomial model, based on the value of these dividend streams. The higher value will be applied to new shares, shares available under existing plans, and shares awarded but not exercised per the plan specifications. DERS transfer more shareholder equity to employees and non-employee directors and this cost should be captured.

Operating Partnership (OP) Units in Equity Plan Analysis of Real Estate Investment Trusts (REITs)

For Real Estate Investment Trusts (REITS), include the common shares issuable upon conversion of outstanding Operating Partnership (OP) units in the share count for the purposes of determining: (1) market capitalization in the Shareholder Value Transfer (SVT) analysis and (2) shares outstanding in the burn rate analysis.

Other Compensation Plans

401(k) Employee Benefit Plans

General Recommendation: Vote for proposals to implement a 401(k) savings plan for employees.

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Employee Stock Ownership Plans (ESOPs)

General Recommendation: Vote for proposals to implement an ESOP or increase authorized shares for existing ESOPs, unless the number of shares allocated to the ESOP is excessive (more than five percent of outstanding shares).

Employee Stock Purchase Plans—Qualified Plans

General Recommendation: Vote case-by-case on qualified employee stock purchase plans. Vote for employee stock purchase plans where all of the following apply:

- Purchase price is at least 85 percent of fair market value;
- Offering period is 27 months or less; and
- The number of shares allocated to the plan is 10 percent or less of the outstanding shares.

Vote against qualified employee stock purchase plans where when the plan features do not meet all of the above criteria.

Employee Stock Purchase Plans—Non-Qualified Plans

General Recommendation: Vote case-by-case on nonqualified employee stock purchase plans. Vote for nonqualified employee stock purchase plans with all the following features:

- Broad-based participation;
- Limits on employee contribution, which may be a fixed dollar amount or expressed as a percent of base salary;
- Company matching contribution up to 25 percent of employee's contribution, which is effectively a discount of 20 percent from market value; and
- No discount on the stock price on the date of purchase when there is a company matching contribution.

Vote against nonqualified employee stock purchase plans when the plan features do not meet all of the above criteria. If the matching contribution or effective discount exceeds the above, ISS may evaluate the SVT cost of the plan as part of the assessment.

Option Exchange Programs/Repricing Options

General Recommendation: Vote case-by-case on management proposals seeking approval to exchange/reprice options taking into consideration:

- Historic trading patterns--the stock price should not be so volatile that the options are likely to be back "inthe-money" over the near term;
- Rationale for the re-pricing--was the stock price decline beyond management's control?;
- Is this a value-for-value exchange?;
- Are surrendered stock options added back to the plan reserve?;
- Timing--repricing should occur at least one year out from any precipitous drop in company's stock price;
- Option vesting--does the new option vest immediately or is there a black-out period?;
- Term of the option--the term should remain the same as that of the replaced option;
- Exercise price--should be set at fair market or a premium to market;
- Participants--executive officers and directors must be excluded.

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If the surrendered options are added back to the equity plans for re-issuance, then also take into consideration the company's total cost of equity plans and its three-year average burn rate.

In addition to the above considerations, evaluate the intent, rationale, and timing of the repricing proposal. The proposal should clearly articulate why the board is choosing to conduct an exchange program at this point in time. Repricing underwater options after a recent precipitous drop in the company's stock price demonstrates poor timing and warrants additional scrutiny. Also, consider the terms of the surrendered options, such as the grant date, exercise price and vesting schedule. Grant dates of surrendered options should be far enough back (two to three years) so as not to suggest that repricings are being done to take advantage of short-term downward price movements. Similarly, the exercise price of surrendered options should be above the 52-week high for the stock price.

Vote for shareholder proposals to put option repricings to a shareholder vote.

Stock Plans in Lieu of Cash

General Recommendation: Vote case-by-case on plans that provide participants with the option of taking all or a portion of their cash compensation in the form of stock.

Vote for non-employee director-only equity plans that provide a dollar-for-dollar cash-for-stock exchange.

Vote case-by-case on plans which do not provide a dollar-for-dollar cash for stock exchange. In cases where the exchange is not dollar-for-dollar, the request for new or additional shares for such equity program will be considered using the binomial option pricing model. In an effort to capture the total cost of total compensation, ISS will not make any adjustments to carve out the in-lieu-of cash compensation.

Transfer Stock Option (TSO) Programs

General Recommendation: One-time Transfers: Vote against or withhold from compensation committee members if they fail to submit one-time transfers to shareholders for approval.

Vote case-by-case on one-time transfers. Vote for if:

- Executive officers and non-employee directors are excluded from participating;
- Stock options are purchased by third-party financial institutions at a discount to their fair value using option pricing models such as Black-Scholes or a Binomial Option Valuation or other appropriate financial models; and
- There is a two-year minimum holding period for sale proceeds (cash or stock) for all participants.

Additionally, management should provide a clear explanation of why options are being transferred to a third-party institution and whether the events leading up to a decline in stock price were beyond management's control. A review of the company's historic stock price volatility should indicate if the options are likely to be back "in-themoney" over the near term.

Ongoing TSO program: Vote against equity plan proposals if the details of ongoing TSO programs are not provided to shareholders. Since TSOs will be one of the award types under a stock plan, the ongoing TSO program, structure, and mechanics must be disclosed to shareholders. The specific criteria to be considered in evaluating these proposals include, but not limited, to the following:

- Eligibility;
- Vesting;

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- Bid-price;
- Term of options;
- Cost of the program and impact of the TSOs on company's total option expense; and
- Option repricing policy.

Amendments to existing plans that allow for introduction of transferability of stock options should make clear that only options granted post-amendment shall be transferable.

Director Compensation

Shareholder Ratification of Director Pay Programs

General Recommendation: Vote case-by-case on management proposals seeking ratification of non-employee director compensation, based on the following factors:

- If the equity plan under which non-employee director grants are made is on the ballot, whether or not it warrants support; and
- An assessment of the following qualitative factors:
 - The relative magnitude of director compensation as compared to companies of a similar profile;
 - The presence of problematic pay practices relating to director compensation;
 - Director stock ownership guidelines and holding requirements;
 - Equity award vesting schedules;
 - The mix of cash and equity-based compensation;
 - Meaningful limits on director compensation;
 - The availability of retirement benefits or perquisites; and
 - The quality of disclosure surrounding director compensation.

Equity Plans for Non-Employee Directors

General Recommendation: Vote case-by-case on compensation plans for non-employee directors, based on:

- The total estimated cost of the company's equity plans relative to industry/market cap peers, measured by the company's estimated Shareholder Value Transfer (SVT) based on new shares requested plus shares remaining for future grants, plus outstanding unvested/unexercised grants;
- The company's three-year burn rate relative to its industry/market cap peers (in certain circumstances); and
- The presence of any egregious plan features (such as an option repricing provision or liberal CIC vesting risk).

On occasion, non-employee director stock plans will exceed the plan cost or burn-rate benchmarks when combined with employee or executive stock plans. In such cases, vote case-by-case on the plan taking into consideration the following qualitative factors:

- The relative magnitude of director compensation as compared to companies of a similar profile;
- The presence of problematic pay practices relating to director compensation;
- Director stock ownership guidelines and holding requirements;
- Equity award vesting schedules;
- The mix of cash and equity-based compensation;
- Meaningful limits on director compensation;
- The availability of retirement benefits or perquisites; and
- The quality of disclosure surrounding director compensation.

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Non-Employee Director Retirement Plans

General Recommendation: Vote against retirement plans for non-employee directors. Vote for shareholder proposals to eliminate retirement plans for non-employee directors.

Shareholder Proposals on Compensation

Bonus Banking/Bonus Banking "Plus"

General Recommendation: Vote case-by-case on proposals seeking deferral of a portion of annual bonus pay, with ultimate payout linked to sustained results for the performance metrics on which the bonus was earned (whether for the named executive officers or a wider group of employees), taking into account the following factors:

- The company's past practices regarding equity and cash compensation;
- Whether the company has a holding period or stock ownership requirements in place, such as a meaningful retention ratio (at least 50 percent for full tenure); and
- Whether the company has a rigorous claw-back policy in place.

Compensation Consultants—Disclosure of Board or Company's Utilization

General Recommendation: Generally vote for shareholder proposals seeking disclosure regarding the company, board, or compensation committee's use of compensation consultants, such as company name, business relationship(s), and fees paid.

Disclosure/Setting Levels or Types of Compensation for Executives and Directors

General Recommendation: Generally vote for shareholder proposals seeking additional disclosure of executive and director pay information, provided the information requested is relevant to shareholders' needs, would not put the company at a competitive disadvantage relative to its industry, and is not unduly burdensome to the company.

Generally vote against shareholder proposals seeking to set absolute levels on compensation or otherwise dictate the amount or form of compensation (such as types of compensation elements or specific metrics) to be used for executive or directors.

Generally vote against shareholder proposals that mandate a minimum amount of stock that directors must own in order to qualify as a director or to remain on the board.

Vote case-by-case on all other shareholder proposals regarding executive and director pay, taking into account relevant factors, including but not limited to: company performance, pay level and design versus peers, history of compensation concerns or pay-for-performance disconnect, and/or the scope and prescriptive nature of the proposal.

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Golden Coffins/Executive Death Benefits

General Recommendation: Generally vote for proposals calling for companies to adopt a policy of obtaining shareholder approval for any future agreements and corporate policies that could oblige the company to make payments or awards following the death of a senior executive in the form of unearned salary or bonuses, accelerated vesting or the continuation in force of unvested equity grants, perquisites and other payments or awards made in lieu of compensation. This would not apply to any benefit programs or equity plan proposals for which the broad-based employee population is eligible.

Hold Equity Past Retirement or for a Significant Period of Time

General Recommendation: Vote case-by-case on shareholder proposals asking companies to adopt policies requiring senior executive officers to retain a portion of net shares acquired through compensation plans. The following factors will be taken into account:

- The percentage/ratio of net shares required to be retained;
- The time period required to retain the shares;
- Whether the company has equity retention, holding period, and/or stock ownership requirements in place and the robustness of such requirements;
- Whether the company has any other policies aimed at mitigating risk taking by executives;
- Executives' actual stock ownership and the degree to which it meets or exceeds the proponent's suggested holding period/retention ratio or the company's existing requirements; and
- Problematic pay practices, current and past, which may demonstrate a short-term versus long-term focus.

Pay Disparity

General Recommendation: Vote case-by-case on proposals calling for an analysis of the pay disparity between corporate executives and other non-executive employees. The following factors will be considered:

- The company's current level of disclosure of its executive compensation setting process, including how the company considers pay disparity;
- If any problematic pay practices or pay-for-performance concerns have been identified at the company; and
- The level of shareholder support for the company's pay programs.

Generally vote against proposals calling for the company to use the pay disparity analysis or pay ratio in a specific way to set or limit executive pay.

Pay for Performance/Performance-Based Awards

General Recommendation: Vote case-by-case on shareholder proposals requesting that a significant amount of future long-term incentive compensation awarded to senior executives shall be performance-based and requesting that the board adopt and disclose challenging performance metrics to shareholders, based on the following analytical steps:

First, vote for shareholder proposals advocating the use of performance-based equity awards, such as performance contingent options or restricted stock, indexed options, or premium-priced options, unless the proposal is overly restrictive or if the company has demonstrated that it is using a "substantial" portion of performance-based awards for its top executives. Standard stock options and performance-accelerated awards do not meet the criteria to be considered as performance-based awards. Further, premium-priced options should have a meaningful premium to be considered performance-based awards.

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Second, assess the rigor of the company's performance-based equity program. If the bar set for the performance-based program is too low based on the company's historical or peer group comparison, generally vote for the proposal. Furthermore, if target performance results in an above target payout, vote for the shareholder proposal due to program's poor design. If the company does not disclose the performance metric of the performance-based equity program, vote for the shareholder proposal regardless of the outcome of the first step to the test.

In general, vote for the shareholder proposal if the company does not meet both of the above two steps.

Pay for Superior Performance

General Recommendation: Vote case-by-case on shareholder proposals that request the board establish a pay-for-superior performance standard in the company's executive compensation plan for senior executives. These proposals generally include the following principles:

- Set compensation targets for the plan's annual and long-term incentive pay components at or below the peer group median;
- Deliver a majority of the plan's target long-term compensation through performance-vested, not simply timevested, equity awards;
- Provide the strategic rationale and relative weightings of the financial and non-financial performance metrics
 or criteria used in the annual and performance-vested long-term incentive components of the plan;
- Establish performance targets for each plan financial metric relative to the performance of the company's peer companies;
- Limit payment under the annual and performance-vested long-term incentive components of the plan to when the company's performance on its selected financial performance metrics exceeds peer group median performance.

Consider the following factors in evaluating this proposal:

- What aspects of the company's annual and long-term equity incentive programs are performance driven?
- If the annual and long-term equity incentive programs are performance driven, are the performance criteria and hurdle rates disclosed to shareholders or are they benchmarked against a disclosed peer group?
- Can shareholders assess the correlation between pay and performance based on the current disclosure?
- What type of industry and stage of business cycle does the company belong to?

Pre-Arranged Trading Plans (10b5-1 Plans)

General Recommendation: Generally vote for shareholder proposals calling for the addition of certain safeguards in prearranged trading plans (10b5-1 plans) for executives. Safeguards may include:

- Adoption, amendment, or termination of a 10b5-1 Plan must be disclosed in a Form 8-K;
- Amendment or early termination of a 10b5-1 Plan allowed only under extraordinary circumstances, as determined by the board;
- Request that a certain number of days that must elapse between adoption or amendment of a 10b5-1 Plan and initial trading under the plan;
- Reports on Form 4 must identify transactions made pursuant to a 10b5-1 Plan;
- An executive may not trade in company stock outside the 10b5-1 Plan;
- Trades under a 10b5-1 Plan must be handled by a broker who does not handle other securities transactions for the executive.

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Prohibit Outside CEOs from Serving on Compensation Committees

General Recommendation: Generally vote against proposals seeking a policy to prohibit any outside CEO from serving on a company's compensation committee, unless the company has demonstrated problematic pay practices that raise concerns about the performance and composition of the committee.

Recoupment of Incentive or Stock Compensation in Specified Circumstances

General Recommendation: Vote case-by-case on proposals to recoup incentive cash or stock compensation made to senior executives if it is later determined that the figures upon which incentive compensation is earned turn out to have been in error, or if the senior executive has breached company policy or has engaged in misconduct that may be significantly detrimental to the company's financial position or reputation, or if the senior executive failed to manage or monitor risks that subsequently led to significant financial or reputational harm to the company. Many companies have adopted policies that permit recoupment in cases where an executive's fraud, misconduct, or negligence significantly contributed to a restatement of financial results that led to the awarding of unearned incentive compensation. However, such policies may be narrow given that not all misconduct or negligence may result in significant financial restatements. Misconduct, negligence, or lack of sufficient oversight by senior executives may lead to significant financial loss or reputational damage that may have long-lasting impact.

In considering whether to support such shareholder proposals, ISS will take into consideration the following factors:

- If the company has adopted a formal recoupment policy;
- The rigor of the recoupment policy focusing on how and under what circumstances the company may recoup
 incentive or stock compensation;
- Whether the company has chronic restatement history or material financial problems;
- Whether the company's policy substantially addresses the concerns raised by the proponent;
- Disclosure of recoupment of incentive or stock compensation from senior executives or lack thereof; or
- Any other relevant factors.

Severance Agreements for Executives/Golden Parachutes

General Recommendation: Vote case-by-case on shareholder proposals requiring that executive severance (including change-in-control related) arrangements or payments be submitted for shareholder ratification.

Factors that will be considered include, but are not limited to:

- The company's severance or change-in-control agreements in place, and the presence of problematic features (such as excessive severance entitlements, single triggers, excise tax gross-ups, etc.);
- Any existing limits on cash severance payouts or policies which require shareholder ratification of severance payments exceeding a certain level;
- Any recent severance-related controversies; and
- Whether the proposal is overly prescriptive, such as requiring shareholder approval of severance that does not
 exceed market norms.

Share Buyback Impact on Incentive Program Metrics

General Recommendation: Vote case-by-case on proposals requesting the company exclude the impact of share buybacks from the calculation of incentive program metrics, considering the following factors:

The frequency and timing of the company's share buybacks;

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- The use of per-share metrics in incentive plans;
- The effect of recent buybacks on incentive metric results and payouts; and
- Whether there is any indication of metric result manipulation.

Supplemental Executive Retirement Plans (SERPs)

General Recommendation: Generally vote for shareholder proposals requesting to put extraordinary benefits contained in SERP agreements to a shareholder vote unless the company's executive pension plans do not contain excessive benefits beyond what is offered under employee-wide plans.

Generally vote for shareholder proposals requesting to limit the executive benefits provided under the company's supplemental executive retirement plan (SERP) by limiting covered compensation to a senior executive's annual salary or those pay elements covered for the general employee population.

Tax Gross-Up Proposals

General Recommendation: Generally vote for proposals calling for companies to adopt a policy of not providing tax gross-up payments to executives, except in situations where gross-ups are provided pursuant to a plan, policy, or arrangement applicable to management employees of the company, such as a relocation or expatriate tax equalization policy.

Termination of Employment Prior to Severance Payment/Eliminating Accelerated Vesting of Unvested Equity

General Recommendation: Vote case-by-case on shareholder proposals seeking a policy requiring termination of employment prior to severance payment and/or eliminating accelerated vesting of unvested equity.

The following factors will be considered:

- The company's current treatment of equity upon employment termination and/or in change-in-control situations (i.e., vesting is double triggered and/or pro rata, does it allow for the assumption of equity by acquiring company, the treatment of performance shares, etc.);
- Current employment agreements, including potential poor pay practices such as gross-ups embedded in those agreements.

Generally vote for proposals seeking a policy that prohibits automatic acceleration of the vesting of equity awards to senior executives upon a voluntary termination of employment or in the event of a change in control (except for pro rata vesting considering the time elapsed and attainment of any related performance goals between the award date and the change in control).

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6. Routine/Miscellaneous

Adjourn Meeting

General Recommendation: Generally vote against proposals to provide management with the authority to adjourn an annual or special meeting absent compelling reasons to support the proposal.

Vote for proposals that relate specifically to soliciting votes for a merger or transaction if supporting that merger or transaction. Vote against proposals if the wording is too vague or if the proposal includes "other business."

Amend Quorum Requirements

General Recommendation: Vote case-by-case on proposals to reduce quorum requirements for shareholder meetings below a majority of the shares outstanding, taking into consideration:

- The new quorum threshold requested;
- The rationale presented for the reduction;
- The market capitalization of the company (size, inclusion in indices);
- The company's ownership structure;
- Previous voter turnout or attempts to achieve quorum;
- Any provisions or commitments to restore quorum to a majority of shares outstanding, should voter turnout improve sufficiently; and
- Other factors as appropriate.

In general, a quorum threshold kept as close to a majority of shares outstanding as is achievable is preferred.

Vote case-by-case on directors who unilaterally lower the quorum requirements below a majority of the shares outstanding, taking into consideration the factors listed above.

Amend Minor Bylaws

General Recommendation: Vote for bylaw or charter changes that are of a housekeeping nature (updates or corrections).

Change Company Name

General Recommendation: Vote for proposals to change the corporate name unless there is compelling evidence that the change would adversely impact shareholder value.

Change Date, Time, or Location of Annual Meeting

General Recommendation: Vote for management proposals to change the date, time, or location of the annual meeting unless the proposed change is unreasonable.

Vote against shareholder proposals to change the date, time, or location of the annual meeting unless the current scheduling or location is unreasonable.

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Other Business

General Recommendation: Vote against proposals to approve other business when it appears as a voting item.

7. Environmental and Social Issues

Global Approach - E&S-related Proposals

Environmental and social proposals will be reviewed with a focus on how, and to what extent, the issues dealt with in such proposals will directly affect shareholder value, and with a presumption on environmental and social topics that the board's recommendations should generally prevail. In those circumstances where it is widely considered that greater disclosure will directly enhance or protect shareholder value and is reflective of a clearly established reporting standard in the market, the Global Board-Aligned Policy will generally recommend in support of such proposals (e.g. proposals requesting greater disclosure of a company's political contributions and/or trade association spending policies and activities). In the absence of a clear determination that environmental and social proposals will have a positive effect on shareholder value or there are proposals that seek information that exceeds a widely endorsed standard in the market or place any burden upon the company beyond a reasonable and clearly established reporting standard in the market, the Global Board-Aligned policy will generally recommend voting against such proposals, or in line with the board's recommendations if different.

Say on Climate (SoC) Management Proposals

General Recommendation: Generally vote with the board's recommendation on management proposals that request shareholders to approve the company's climate transition action plan.²²

Say on Climate (SoC) Shareholder Proposals

General Recommendation: Generally vote against shareholder proposals that request the company to disclose a report providing its GHG emissions levels and reduction targets and/or its upcoming/approved climate transition action plan and provide shareholders the opportunity to express approval or disapproval of its GHG emissions reduction plan.

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²² Variations of this request also include climate transition related ambitions, or commitment to reporting on the implementation of a climate plan.



8. Mutual Fund Proxies

Election of Directors

General Recommendation: Vote case-by-case on the election of directors and trustees, following the same guidelines for uncontested directors for public company shareholder meetings. However, mutual fund boards do not usually have compensation committees, so do not withhold for the lack of this committee.

Closed End Funds- Unilateral Opt-In to Control Share Acquisition Statutes

General Recommendation: For closed-end management investment companies (CEFs), vote against or withhold from nominating/governance committee members (or other directors on a case-by-case basis) at CEFs that have not provided a compelling rationale for opting-in to a Control Share Acquisition statute, nor submitted a by-law amendment to a shareholder vote.

Converting Closed-end Fund to Open-end Fund

General Recommendation: Vote case-by-case on conversion proposals, considering the following factors:

- Past performance as a closed-end fund;
- Market in which the fund invests;
- Measures taken by the board to address the discount; and
- Past shareholder activism, board activity, and votes on related proposals.

Proxy Contests

General Recommendation: Vote case-by-case on proxy contests, considering the following factors:

- Past performance relative to its peers;
- Market in which the fund invests;
- Measures taken by the board to address the issues;
- Past shareholder activism, board activity, and votes on related proposals;
- Strategy of the incumbents versus the dissidents;
- Independence of directors;
- Experience and skills of director candidates;
- Governance profile of the company;
- Evidence of management entrenchment.

Investment Advisory Agreements

General Recommendation: Vote case-by-case on investment advisory agreements, considering the following factors:

- Proposed and current fee schedules;
- Fund category/investment objective;
- Performance benchmarks;
- Share price performance as compared with peers;
- Resulting fees relative to peers;
- Assignments (where the advisor undergoes a change of control).

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Approving New Classes or Series of Shares

General Recommendation: Vote for the establishment of new classes or series of shares.

Preferred Stock Proposals

General Recommendation: Vote case-by-case on the authorization for or increase in preferred shares, considering the following factors:

- Stated specific financing purpose;
- Possible dilution for common shares;
- Whether the shares can be used for antitakeover purposes.

1940 Act Policies

General Recommendation: Vote case-by-case on policies under the Investment Advisor Act of 1940, considering the following factors:

- Potential competitiveness;
- Regulatory developments;
- Current and potential returns; and
- Current and potential risk.

Generally vote for these amendments as long as the proposed changes do not fundamentally alter the investment focus of the fund and do comply with the current SEC interpretation.

Changing a Fundamental Restriction to a Nonfundamental Restriction

General Recommendation: Vote case-by-case on proposals to change a fundamental restriction to a non-fundamental restriction, considering the following factors:

- The fund's target investments;
- The reasons given by the fund for the change; and
- The projected impact of the change on the portfolio.

Change Fundamental Investment Objective to Nonfundamental

General Recommendation: Vote against proposals to change a fund's fundamental investment objective to non-fundamental.

Name Change Proposals

General Recommendation: Vote case-by-case on name change proposals, considering the following factors:

- Political/economic changes in the target market;
- Consolidation in the target market; and
- Current asset composition.

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Change in Fund's Subclassification

General Recommendation: Vote case-by-case on changes in a fund's sub-classification, considering the following factors:

- Potential competitiveness;
- Current and potential returns;
- Risk of concentration;
- Consolidation in target industry.

Business Development Companies—Authorization to Sell Shares of Common Stock at a Price below Net Asset Value

General Recommendation: Vote for proposals authorizing the board to issue shares below Net Asset Value (NAV) if:

- The proposal to allow share issuances below NAV has an expiration date no more than one year from the date shareholders approve the underlying proposal, as required under the Investment Company Act of 1940;
- The sale is deemed to be in the best interests of shareholders by (1) a majority of the company's independent directors and (2) a majority of the company's directors who have no financial interest in the issuance; and
- The company has demonstrated responsible past use of share issuances by either:
- Outperforming peers in its 8-digit GICS group as measured by one- and three-year median TSRs; or
- Providing disclosure that its past share issuances were priced at levels that resulted in only small or moderate discounts to NAV and economic dilution to existing non-participating shareholders.

Disposition of Assets/Termination/Liquidation

General Recommendation: Vote case-by-case on proposals to dispose of assets, to terminate or liquidate, considering the following factors:

- Strategies employed to salvage the company;
- The fund's past performance;
- The terms of the liquidation.

Changes to the Charter Document

General Recommendation: Vote case-by-case on changes to the charter document, considering the following factors:

- The degree of change implied by the proposal;
- The efficiencies that could result;
- The state of incorporation;
- Regulatory standards and implications.

Vote against any of the following changes:

- Removal of shareholder approval requirement to reorganize or terminate the trust or any of its series;
- Removal of shareholder approval requirement for amendments to the new declaration of trust;
- Removal of shareholder approval requirement to amend the fund's management contract, allowing the contract to be modified by the investment manager and the trust management, as permitted by the 1940 Act;

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- Allow the trustees to impose other fees in addition to sales charges on investment in a fund, such as deferred sales charges and redemption fees that may be imposed upon redemption of a fund's shares;
- Removal of shareholder approval requirement to engage in and terminate subadvisory arrangements;
- Removal of shareholder approval requirement to change the domicile of the fund.

Changing the Domicile of a Fund

General Recommendation: Vote case-by-case on re-incorporations, considering the following factors:

- Regulations of both states;
- Required fundamental policies of both states;
- The increased flexibility available.

Authorizing the Board to Hire and Terminate Subadvisers Without Shareholder Approval

General Recommendation: Vote against proposals authorizing the board to hire or terminate subadvisers without shareholder approval if the investment adviser currently employs only one subadviser.

Distribution Agreements

General Recommendation: Vote case-by-case on distribution agreement proposals, considering the following factors:

- Fees charged to comparably sized funds with similar objectives;
- The proposed distributor's reputation and past performance;
- The competitiveness of the fund in the industry;
- The terms of the agreement.

Master-Feeder Structure

General Recommendation: Vote for the establishment of a master-feeder structure.

Mergers

General Recommendation: Vote case-by-case on merger proposals, considering the following factors:

- Resulting fee structure;
- Performance of both funds;
- Continuity of management personnel;
- Changes in corporate governance and their impact on shareholder rights.

Shareholder Proposals for Mutual Funds

Establish Director Ownership Requirement

General Recommendation: Generally vote against shareholder proposals that mandate a specific minimum amount of stock that directors must own in order to qualify as a director or to remain on the board.

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Reimburse Shareholder for Expenses Incurred

General Recommendation: Vote case-by-case on shareholder proposals to reimburse proxy solicitation expenses. When supporting the dissidents, vote for the reimbursement of the proxy solicitation expenses.

Terminate the Investment Advisor

General Recommendation: Vote case-by-case on proposals to terminate the investment advisor, considering the following factors:

- Performance of the fund's Net Asset Value (NAV);
- The fund's history of shareholder relations;
- The performance of other funds under the advisor's management.

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EXHIBIT 4

Managers Not Using the ISS Proxy Voting Policy Selected by VRS

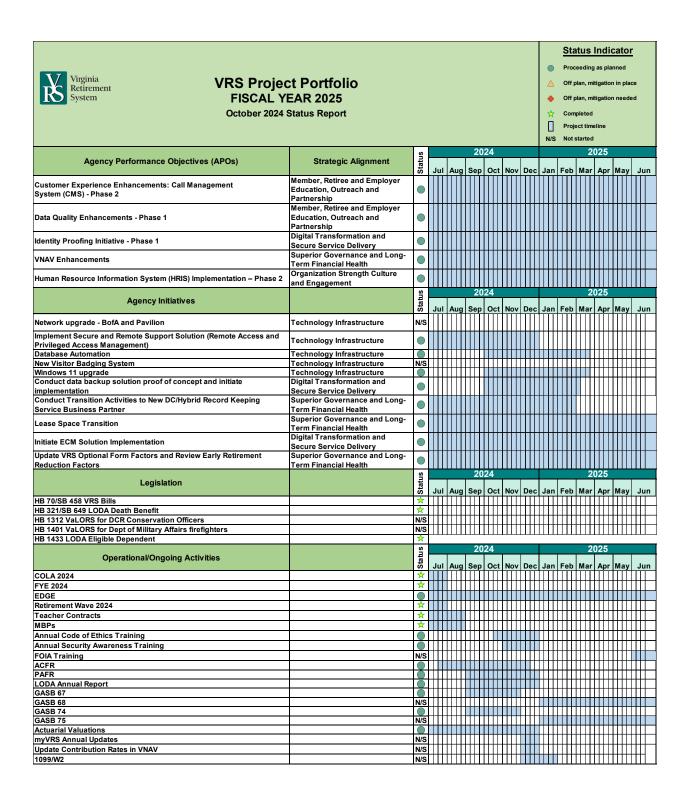
Defined Benefit Managers
Arrowstreet Global 130/30
Baillie Gifford Global
Baillie Gifford Emerging Markets
Jackson Square U.S. SMID
J.P. Morgan U.S. Market Neutral
Lansdowne Global Long Only
All hedge funds

<u>Defined Contribution Managers</u> Galliard Capital Management J.P. Morgan TIAA

EXHIBIT 5

VRS Appointed Law Firms Providing Class Action Services

Berger Montague PC
Berstein Litowitz Berger & Grossman LLP
Bleichmar Fonti & Auld LLP
Grant & Eisenhofer P.A.
Kaplan Fox & Kilsheimer LLP
Kessler Topaz Meltzer & Check, LLP
Labaton Sucharow LLP
Robbins Geller Rudman & Dowd LLP
Scott+Scott Attorneys at Law LLP
Wolf Popper LLP



	S I				20	024					2025								
Operational/Ongoing Activities	a t	Jul	Aug	s	ер	Oc	t No	v	Dec	Ja	an	Feb) I	Mar	A	pr	May	Ju	n
Annual Roadmap Review	N/S		Ш	Ш	П	Ш	Ш	П	Ш	П	Ш	Ш	Π	Ш		Ш	Ш	Ш	
FYE 2025	N/S	Ш		П	П	\Box	Ш	П	Ш	П	Ш	Ш	П	Ш	П	Ш	Ш	Ш	
Retirement Wave 2025	N/S		Ш				Ш	Ш	Ш	П	Ш		Ш		Ш		Ш	Ш	
Commonwealth Bond Disclosure	N/S	Ш			Ш	\equiv	Ш	П	Ш		Ш	Ш	П	Ш	П	Ш	Ш	Ш	
ORPHE Surcharge Billing for FY 2024	N/S			П	П		Ш	П	Ш		Ш		П		П	Ш	Ш	Ш	
Data Fixes		Ш		П	Ш		Ш	П	Ш	П	Ш	\equiv	П		П	Ш	Ш	Ш	
ALM Backlog Prioritization		Ш		П	Ш		Ш	П	Ш	П	Ш		П		П	Ш	Ш	Ш	
Employer VNAV Security Review	N/S			П	П		Ш	П	Ш		Ш		П		П		Ш	Ш	
VRS Fund Sensitivity and Stress Testing Report for GA	N/S	Ш	Ш	П	П		Ш	П	П	П	П	П	П		П		Ш	Ш	
Legislation FY 2025	N/S	Ш	Ш	П	П		Ш	П	Ш		Ш		П		П	Ш	Ш	ПП	

Yellow Status Items

Item	Due Date	Comments
N/A		

Red Status Items

Item	Due Date	Comments
N/A		

Realignments/Adjustments

Item	Due Date	Comments
N/A		



Director's Report

November 14, 2024

Trish Bishop, VRS Director



New Employer Coverage

Coverage Elected	Details				
Enhanced Hazardous Duty 1.85% Multiplier	 Warren County, Effective October 1, 2024 Cumberland County, Effective October 1, 2024 				
Enhanced Hazardous Duty Benefit for Firefighters and Emergency Medical Technicians	■ Wythe County , Effective November 1, 2024				



Honorable Mention, Strategic Marketing MarCom Awards



MarCom Awards are administered by The Association of Marketing & Communication Professionals (AMCP)

- VRS received an Honorable Mention for our outstanding beneficiary campaign (with MissionSquare Retirement) in fiscal year 2024.
- The campaign engaged participants to designate a beneficiary using a targeted age group approach with a clear call to action and visuals that met participants on their journey.

Campaign Result: 8% of the population added a beneficiary, exceeding the 2-5% industry standard for email conversion.



PPCC Award



Public Pension Coordinating Council

Public Pension Standards Award For Funding and Administration 2024

Presented to

Virginia Retirement System

In recognition of meeting professional standards for plan funding and administration as set forth in the Public Pension Standards.

Presented by the Public Pension Coordinating Council, a confederation of

National Association of State Retirement Administrators (NASRA) National Conference on Public Employee Retirement Systems (NCPERS) National Council on Teacher Retirement (NCTR)

> Alan H. Winkle Program Administrator

VRS received the **2024 Public Pension Standards Award for Funding and Administration** from the Public Pension
Coordinating Council (PPCC).

This is the **21**st **consecutive award** VRS has received from PPCC.

PPCC is a coalition of three groups:

- National Association of State Retirement Administrators (NASRA)
- National Conference on Public Employee Retirement Systems (NCPERS)
- National Council on Teacher Retirement (NCTR)



Customer
Service Week
Above
and Beyond!

VRS celebrated Customer Service Week Oct. 7-11







Diwali Celebration





VRS Annual Meeting



Save the Date! Tuesday, December 17

Omni Richmond Hotel 100 S. 12th St., Richmond 8-11:30 a.m.

Plan to attend this celebration of achievements and awards!

Watch for more details and a meeting invitation to come.



Actuarial Measures Key Indicators



Year 3

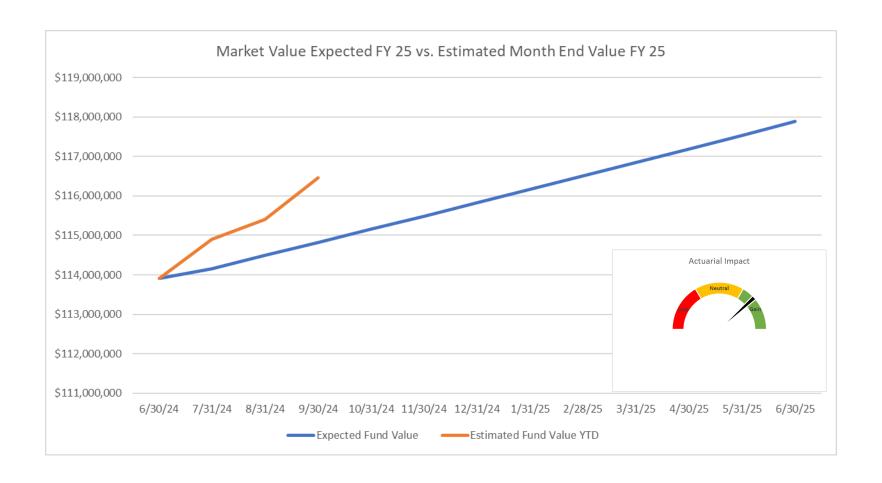
Year 4

Year 5+

Year 5



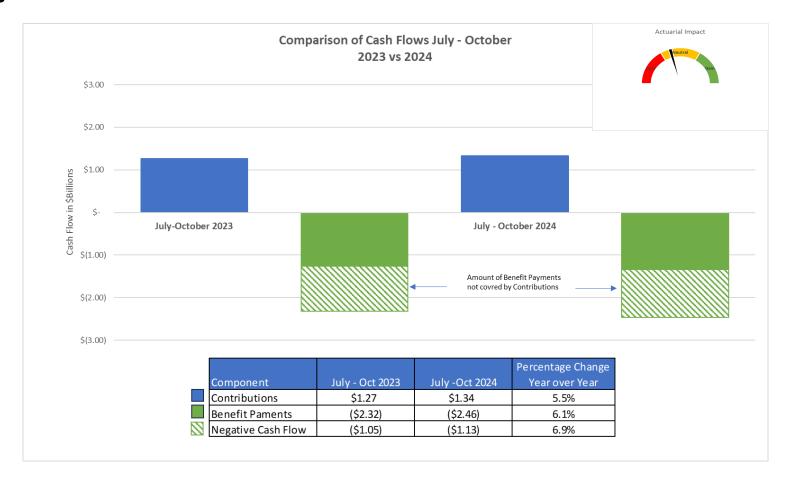
Fund Market Value Actual vs Expected – FY 2025



Four months into FY 2025 the estimated fund value is trending higher than expected based on an assumed rate of return of 6.75%.



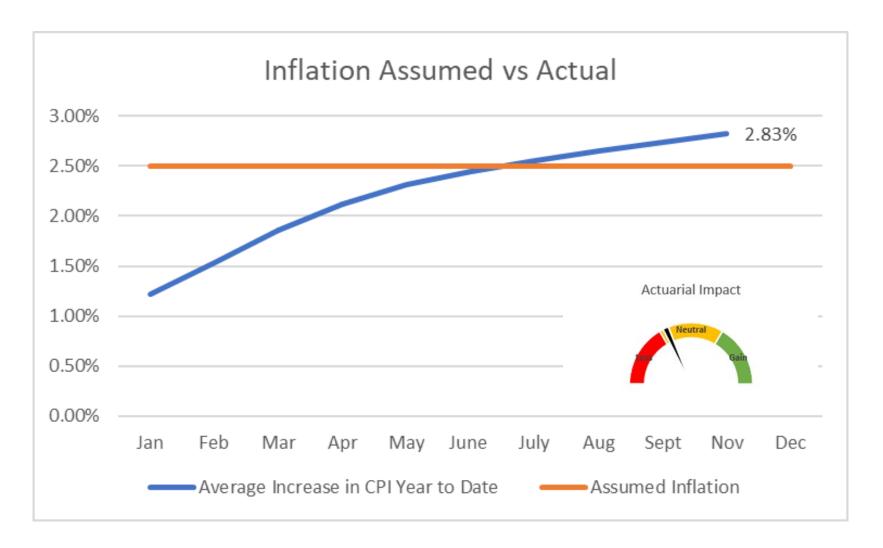
Pension Cash Flow – Expected vs Observed July – October 2023 vs 2024





- Pension cash flow for first three months of fiscal year 2025 is slightly more negative than was observed in first three months of fiscal year 2024.
- Increase in benefit payments is outpacing increase in contributions.

Inflation – Average Increase in CPI Year to Date



CPI-U information through October 2024





Board Preview of Meetings



Preview: December 2024-February 2025



December

- ★ 5 Defined Contributions Plans Advisory Committee
- ★ 9-JLARC Meeting
- ★ 12 Audit and Compliance Committee
- ★ 12 Board of Trustees
- ★ 17 Agency Annual Meeting

January

★ 8 – General Assembly convenes

February

- ★ 5 Benefits and Actuarial Committee
- ★ 6 Board of Trustees

