



#### VRS Overview for the Joint Legislative Audit and Review Commission July 13, 2015

#### Presenters:

Robert L. Greene, Chairman, VRS Board of Trustees

Ronald D. Schmitz, Chief Investment Officer

Patricia S. Bishop, Director

#### **Agenda**



#### **VRS Overview**

• Robert L. Greene Chairman, VRS Board of Trustees

## **Investments Overview**

• Ronald D. Schmitz
Chief Investment Officer

#### Administration Overview

 Patricia S. Bishop Director





#### **Remarks**

**Robert L. Greene** 

Chairman VRS Board of Trustees

#### **Board Members**



Robert L. Greene, Chairman

Diana F. Cantor, Vice Chairman

A. Marshall Acuff, Jr.

Wallace G. "Bo" Harris, Ph.D.

W. Brett Hayes

William H. Leighty

Joseph W. Montgomery

Mitchell L. Nason

**Troilen Gainey Seward, Ed.S.** 





#### **Investments**

Ronald D. Schmitz
Chief Investment Officer

#### VRS Investment Presentation Outline



- Total fund performance ending 3/31/15
- Returns through 5/31/15
- Fiscal year returns for the past 20 years, compared to the actuarially assumed return
- Asset allocation overview
- Update on the phase-in of the new asset allocation policy
- Overview of internally managed assets
- Economic/market outlook

#### Total Fund Performance as of March 31, 2015



|   | 10 Yr | 5 Yr | 3 Yr | 1 Yr | Market Value<br>(\$MM) |
|---|-------|------|------|------|------------------------|
| Total Public Equity                     | 7.1   | 10.5 | 12.9 | 9.6  | 28,317                 |
| Benchmark                               | 6.6   | 9.6  | 12.0 | 8.3  |                        |
| Total Investment-Grade Fixed Income     | 5.5   | 5.2  | 3.4  | 6.0  | 12,514                 |
| Benchmark                               | 5.1   | 4.5  | 3.1  | 5.7  |                        |
| Total Credit Strategies                 | 6.7   | 7.5  | 7.5  | 3.7  | 12,126                 |
| Benchmark                               | 5.8   | 6.6  | 6.5  | 4.0  |                        |
| Total Real Assets                       | 9.2   | 14.1 | 12.8 | 13.9 | 7,434                  |
| Benchmark                               | 8.8   | 12.1 | 11.0 | 11.0 |                        |
| Total Private Equity                    | 13.2  | 14.1 | 15.1 | 10.2 | 4,991                  |
| Benchmark                               | 9.4   | 15.9 | 19.1 | 8.4  |                        |
| Total Strategic Opportunities Portfolio | n/a   | n/a  | n/a  | 5.8  | 839                    |
| Benchmark                               | n/a   | n/a  | n/a  | 3.5  |                        |
| Total Fund                              | 6.9   | 9.4  | 10.0 | 8.1  | 67,830                 |
| VRS Custom Benchmark                    | 6.3   | 8.7  | 9.6  | 7.3  |                        |

- Total Plan return exceeds benchmark over the past one, three, five and 10 years.
- Outperformance versus benchmark over the past 10 years across all programs.

### Total Fund Performance as of May 31, 2015

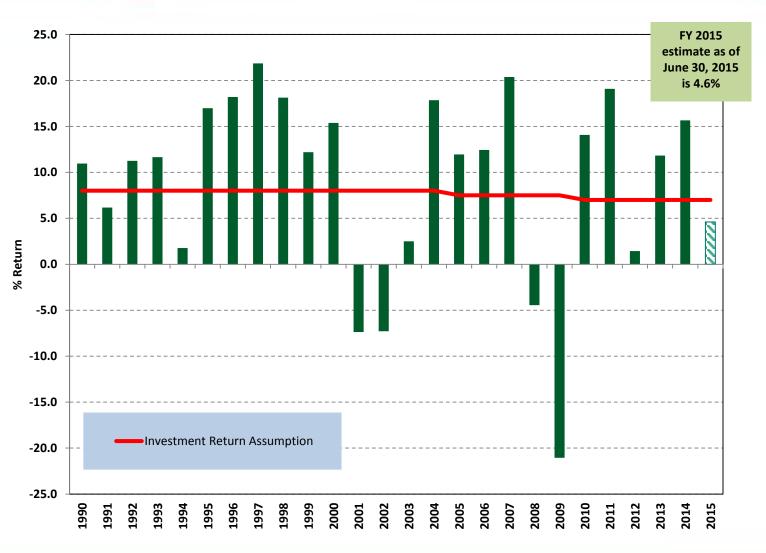


|   | 10 Yr | 5 Yr | 3 Yr | 1 Yr | Fiscal<br>YTD | Market Value<br>(\$MM) |
|---|-------|------|------|------|---------------|------------------------|
| Total Public Equity                     | 7.3   | 12.8 | 17.2 | 9.5  | 7.5           | 29,006                 |
| Benchmark                               | 6.9   | 11.9 | 16.3 | 8.3  | 6.4           |                        |
| Total Investment-Grade Fixed Income     | 5.2   | 4.7  | 2.8  | 3.2  | 3.1           | 12,444                 |
| Benchmark                               | 4.7   | 4.0  | 2.4  | 3.0  | 3.0           |                        |
| Total Credit Strategies                 | 6.7   | 8.0  | 8.7  | 3.4  | 2.1           | 12,228                 |
| Benchmark                               | 5.9   | 7.1  | 7.5  | 3.4  | 2.4           | ,                      |
| Total Real Assets                       | 8.9   | 14.0 | 13.1 | 12.7 | 10.0          | 7,407                  |
| Benchmark                               | 8.4   | 12.3 | 11.1 | 10.0 | 9.0           | -,                     |
| Total Private Equity                    | 13.3  | 14.2 | 15.3 | 10.5 | 5.5           | 4,896                  |
| Benchmark                               | 10.0  | 16.9 | 17.2 | 12.0 | 11.4          | 1,000                  |
| Total Strategic Opportunities Portfolio | n/a   | n/a  | n/a  | 5.4  | 5.5           | 837                    |
| Benchmark                               | n/a   | n/a  | n/a  | 4.3  | 4.2           | <b>50.</b>             |
| Total Fund                              | 6.9   | 10.4 | 12.0 | 7.4  | 5.6           | 68,523                 |
| VRS Custom Benchmark                    | 6.4   | 9.8  | 11.4 | 7.4  | 5.8           | 00,323                 |

<sup>•</sup> FYTD returns unlikely to hit the 7% assumed rate.

#### **VRS Fiscal Year Returns**





**Fiscal Year** 

### **Fund Performance**

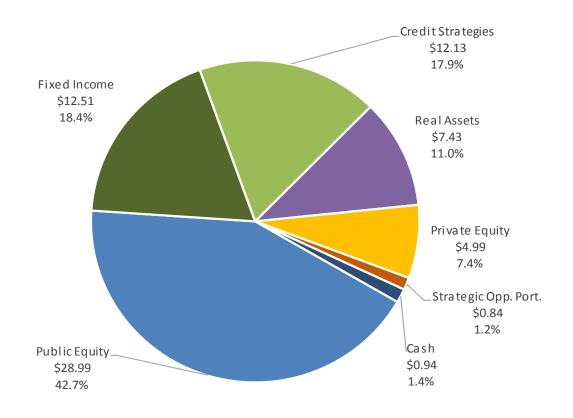


|         | VRS Return<br>(As of March 31, 2015) |
|---------|--------------------------------------|
| 3-year  | 10.0%                                |
| 5-year  | 9.4%                                 |
| 10-year | 6.9%                                 |
| 15-year | 5.4%                                 |
| 20-year | 8.6%                                 |
| 25-year | 8.7%                                 |

#### VRS Asset Allocation as of March 31, 2015



#### **Total Fund market value = \$67.8 billion**



(Dollar Amounts in Billions/Percent of Total Fund)

## Year 3 of the Asset Allocation Phase-In



|                   | <u>Original</u><br><u>Plan 7/15</u> | Modified Plan 7/15 | <u>7/17</u><br><u>Target</u> |
|-------------------|-------------------------------------|--------------------|------------------------------|
| Public Equity     | 42.0%                               | 43.0%              | 42.0%                        |
| Fixed Income      | 17.0%                               | 18.0%              | 15.0%                        |
| Credit Strategies | 17.0%                               | 18.0%              | 15.0%                        |
| Real Assets       | 12.5%                               | 12.0%              | 15.0%                        |
| Private Equity    | 10.5%                               | 8.0%               | 12.0%                        |
| SOP               | 0.0%                                | 0.0%               | 0.0%                         |
| Cash              | 1.0%                                | 1.0%               | 1.0%                         |

## Internal Asset Management (IAM) Mandates as of March 31, 2015



| Asset Class  | Objective                                    |          | Assets (mm) |
|--------------|--|----------|-------------|
|              | Passive, U.S. Large Cap (Madison)            |          | \$404       |
|              | Passive, Non-U.S. Large Cap (Dogwood)        |          | \$262       |
|              | Low Tracking Error, U.S. Large (Potomac)     |          | \$4,302     |
|              | Low Tracking Error, Non-U.S. Large (Matoaka) |          | \$2,330     |
|              | Low Tracking Error, U.S. Small (Afton)       |          | \$368       |
| Equity       | Low Tracking Error, U.S. REIT (Monroe)       |          | \$370       |
|              | Low Volatility, U.S. Large Cap (Mobjack)     |          | \$911       |
|              | Low Volatility, Non-U.S. Large (Piedmont)    |          | \$1,968     |
|              | Rebalancing Account                          |          | \$993       |
|              | Currency Hedge (Overlay)                     |          | \$3,724     |
|              |  | Subtotal | \$15,632    |
|              | Mortgage and Asset-Backeds                   |          | \$3,948     |
| Fixed Income | Investment Grade Corporates                  |          | \$4,204     |
| Fixed Income | Treasuries and Agencies                      |          | \$4,362     |
|              |  | Subtotal | \$12,514    |
| _            |  | Total    | \$28,146    |

#### IAM Track Record as of March 31, 2015



|                 |            | 1 year | 3 years | 5 years | 10 years | Inception* |
|-----------------|------------|--------|---------|---------|----------|------------|
|                 | Return     | 11.87  | 15.25   | 14.32   | 8.35     | 6.54       |
|                 | Benchmark  | 9.76   | 13.60   | 12.01   | 7.21     | 5.53       |
| Equity          | Excess     | 2.11   | 1.65    | 2.31    | 1.14     | 1.01       |
|                 | Risk (TE)  | 0.64   | 0.98    | 1.23    | 1.06     | 1.03       |
|                 | Info Ratio | 3.30   | 1.68    | 1.88    | 1.08     | 0.98       |
|                 | Return     | 5.97   | 3.57    | 4.66    | 5.82     | 6.29       |
|                 | Benchmark  | 5.71   | 3.11    | 4.41    | 5.49     | 5.99       |
| Fixed<br>Income | Excess     | 0.26   | 0.46    | 0.25    | 0.33     | 0.30       |
| meome           | Risk (TE)  | 0.17   | 0.29    | 0.36    | 0.43     | 0.33       |
|                 | Info Ratio | 1.53   | 1.59    | 0.69    | 0.77     | 0.91       |

<sup>\*</sup>Equity Inception April 2001, Fixed Income Inception August 1995. These inception dates represent the current team's tenure.

#### **Economic & Market Commentary**



- U.S. economic data continues to be generally positive and GDP growth is about on par with longer term U.S. averages for the post WWII era.
- The shape of the yield curve and the slightly lower than normal spread of inflationprotected securities over Treasury bonds indicate that the market sees economic growth and inflation to be at about Fed target levels.
- Outside of the U.S., economic conditions are more mixed.
- Things have been relatively calm in the equity markets. Price/Earnings ratios globally are reasonable measured by trailing earnings.
- Real Estate prices are expensive but yields are favorable versus the 10-year Treasury bond.
- Private Equity purchase price multiples continue to be high.

**Conclusion: Markets are somewhat expensive across all asset classes.** 





#### **Administration**

Patricia S. Bishop

Director

### **Administration Topics**



- Membership and System Overview
- Funded Status
- Employer Contribution Rates
- Hybrid Retirement Plan Status
- GASB Update
- Summary





### VRS Membership Overview

### **VRS Total Membership**



|  | Plan 1  | Plan 2  | Hybrid | Total   |
|--|---------|---------|--------|---------|
| Teachers   | 95,951  | 40,335  | 11,030 | 147,316 |
| Political Subdivisions                               | 63,100  | 34,309  | 8,436  | 105,845 |
| State Employees                                      | 50,350  | 21,395  | 6,469  | 78,214  |
| State Police Officers' Retirement<br>System (SPORS)  | 1,465   | 466     | -      | 1,931   |
| Virginia Law Officers' Retirement<br>System (VaLORS) | 5,120   | 3,686   | -      | 8,806   |
| Judicial Retirement System (JRS)                     | 296     | 70      | 46     | 412     |
| <b>Total Active Members</b>                          | 216,282 | 100,261 | 25,981 | 342,524 |

| Total Active<br>Members | Retirees/<br>Beneficiaries | Inactive/ Deferred Members | VRS Total Population |
|-------------------------|----------------------------|----------------------------|----------------------|
| 342,524                 | 184,074                    | 131,754                    | 658,352              |

As of March 31, 2015

## **Benefit Comparison**



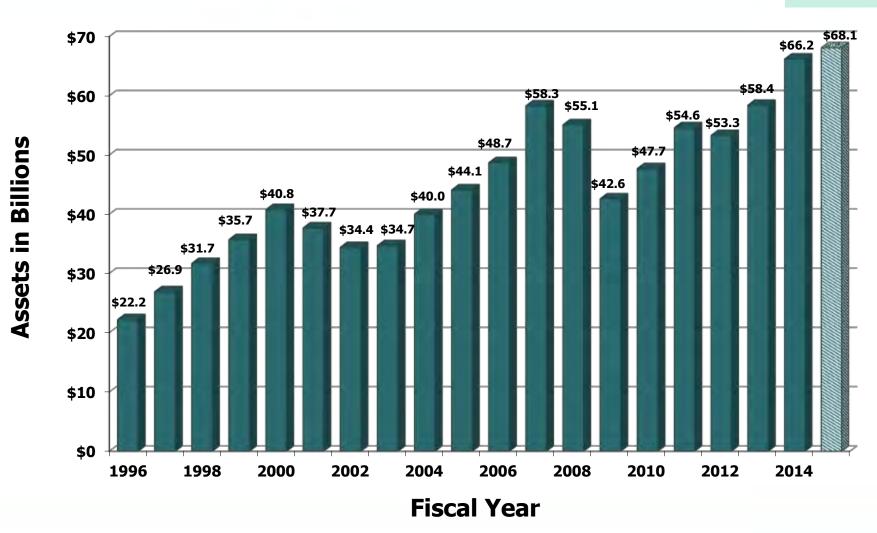
|  | State    | Teachers | Local    |
|--|----------|----------|----------|
| Actives:                               |          |          |          |
| Average Age                            | 48.3     | 45.2     | 46.3     |
| Average Service                        | 12.7     | 12.0     | 11.2     |
| Average Salary                         | \$50,902 | \$50,095 | \$42,101 |
| Retirees:                              |          |          |          |
| Avg. Age @ Retirement                  | 63.1     | 62.2     | 62.4     |
| Avg. Service @ Retirement              | 21.7     | 22.4     | 19.6     |
| Avg. Benefit @ Retirement              | 36.9%    | 38.1%    | 33.5%    |
| Avg. Annual Benefit                    | \$19,256 | \$22,088 | \$15,290 |
| Avg. Social Security Benefit at Age 62 | \$17,796 | \$18,240 | \$14,988 |

Information above obtained from the June 30, 2014, Actuarial Valuations.

#### **VRS Assets**



Estimate as of 6/30/2015





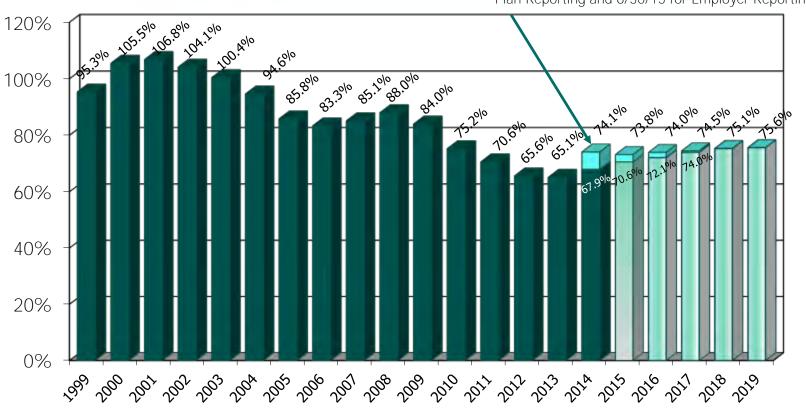


# Funded Status and Contribution Rates

#### **Funded Status: State Employees**



New GASB Accounting Rules will reflect funded status using Market Value of Assets effective 6/30/14 for Plan Reporting and 6/30/15 for Employer Reporting.



- Projected Funded Status using Market Value of Assets (New GASB Standard)
- Projected Funded Status using Actuarial Value of Assets (Funding Standard)
  - Historical Funded Status using Actuarial Value of Assets (Funding Standard)

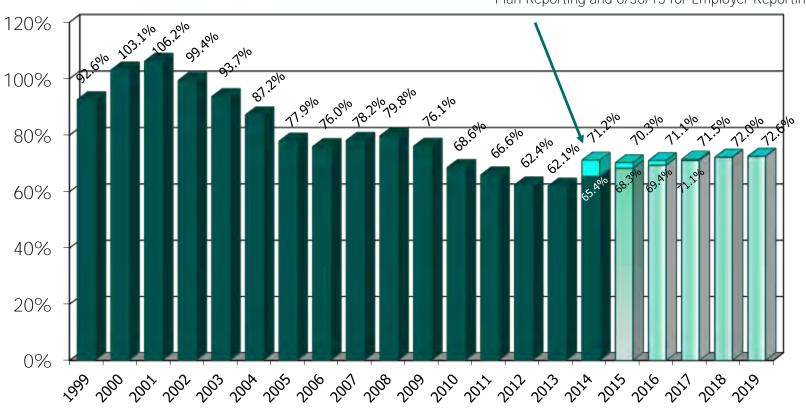
#### Assumptions:

- Fiscal Year 2015 investment return estimated at 4.6%.
- Other projected years' investment returns assume 7.0% with 2.5% inflation rate.
- Assumes contributions move to 90% of Board-certified rate effective fiscal year 2016.

#### **Funded Status: Teachers**



New GASB Accounting Rules will reflect funded status using Market Value of Assets effective 6/30/14 for Plan Reporting and 6/30/15 for Employer Reporting.



Projected Funded Status using Market Value of Assets (New GASB Standard)

- Projected Funded Status using Actuarial Value of Assets (Funding Standard)
- Historical Funded Status using Actuarial Value of Assets (Funding Standard)

#### Assumptions:

- Fiscal Year 2015 investment return estimated at 4.6%.
- Other projected years' investment returns assume 7.0% with 2.5% inflation rate.
- Projected funded status reflects additional \$192.9 million contribution to Teacher Plan on 6/30/15.





## **VRS Employer Rate Information**

#### **State Employer Contribution Rates**



#### **State Employer Contribution Rates FY 1984 - 2020**



- Rates in fiscal year 2016 reflects increase to 90% of Board-certified rate. Increase in rate is contingent on additional funding being available as reflected in current 2015 revenue forecast.
- Fiscal Year 2015 investment return estimated at 4.6%.
- Other projected years assume all actuarial assumptions are met, including 7.0% rate of return with 2.5% inflation.
- Rates in fiscal year 2017 and beyond include estimated employer DC contribution to hybrid plan.

#### **Teacher Employer Contribution Rates**



#### **Teacher Employer Contribution Rates FY 1984 - 2020**



- Rates in fiscal years 2016-2020 reflect the accelerated payment of \$192.9 million to payback deferred contributions from 2010-2012 biennium. Accelerated payment is reflected in 2015 budget bill.
- Fiscal year 2015 investment return estimated at 4.6%.
- Other projected years assume all actuarial assumptions are met, including 7.0% rate of return with 2.5% inflation.
- Rates in fiscal year 2017 and beyond include estimated employer DC contribution to hybrid plan.

### **Estimated VRS Employer Contribution Rates**



### General Assembly committed to phase-in contribution rates for the teacher and state plans to the VRS board-certified rates as follows:

|          | July 1, 2012 | July 1, 2014 | July 1, 2016                       | July 1, 2018 |
|----------|--------------|--------------|------------------------------------|--------------|
| State    | 67.02%       | 78.02%       | 90.00%*<br>(effective August 2015) | 100%         |
| Teachers | 69.53%       | 79.69%       | 89.84%                             | 100%         |

<sup>\*</sup> General Assembly accelerated phase-in for state plan.

|       | 2013-14 | 2015 & 2016     | 2017 & 2018     | 2019 & 2020     |  |
|-------|---------|-----------------|-----------------|-----------------|--|
| State | 8.76%   | 14.22% (12.33%) | 13.15% (13.01%) | 13.40% (13.57%) |  |

14.06% (14.50%)

**Estimated Contribution Rates by Fiscal Year** 

• Above contribution rates are net of employee contributions.

11.66%

• Teacher rates for FY 2016 were lowered due to additional contribution of \$192.9 million applied to deferred contribution balance during FY 2015. The subsequent rates for FY 2017-2020 were also lowered to reflect the accelerated payment received. (Rate prior to accelerated payment is in parenthesis.)

14.76% (15.22%)

15.68% (16.18%)

• State rates shown for FY 2016-2018 reflect increase in contribution to 90% of Board-certified rates. This increase is contingent on 2015 revenue forecasts and would be effective August 10, 2015, if revenue forecasts are met.

**Teachers** 

## **Teacher Plan — 10-Year Payback Schedule** for Deferred Contributions from 2010-2012 Biennium



#### **Original Amortization Schedule**

| Modified   | <b>Amortization</b> | Schedule  |
|------------|---------------------|-----------|
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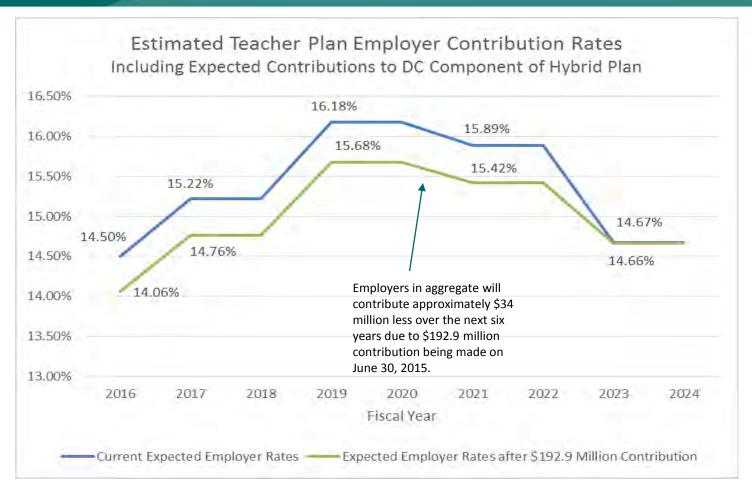
| Date      | Outstanding<br>Balance | Years Remaining On Amortization Schedule | Amortization<br>Payment |
|-----------|------------------------|--|-------------------------|
| 6/30/2011 | \$ 741,432,106         | 10                                       | \$99,232,610            |
| 6/30/2012 | \$ 691,780,147         | 9  | \$99,232,610            |
| 6/30/2013 | \$ 634,025,864         | 8  | \$99,232,610            |
| 6/30/2014 | \$ 572,228,782         | 7  | \$99,232,610            |
| 6/30/2015 | \$ 506,105,904         | 6  | \$99,232,610            |
| 6/30/2016 | \$ 435,354,424         | 5  | \$99,232,610            |
| 6/30/2017 | \$ 359,650,341         | 4  | \$99,232,610            |
| 6/30/2018 | \$ 278,646,972         | 3  | \$99,232,610            |
| 6/30/2019 | \$ 191,973,367         | 2  | \$99,232,610            |
| 6/30/2020 | \$ 99,232,610          | 1  | \$99,232,610            |
| 6/30/2021 | \$ -                   | 0  |                         |

| Outstanding<br>Balance | Years Remaining On Amortization Schedule | Amortization<br>Payment |
|------------------------|--|-------------------------|
| \$ 741,432,106         | 10                                       | \$99,232,610            |
| \$691,780,147          | 9  | \$99,232,610            |
| \$ 634,025,864         | 8  | \$99,232,610            |
| \$ 572,228,782         | 7  | \$99,232,610            |
| \$313,221,904          | 6  | \$61,413,682            |
| \$ 269,434,797         | 5  | \$61,413,682            |
| \$ 222,582,593         | 4  | \$61,413,682            |
| \$ 172,450,735         | 3  | \$61,413,682            |
| \$ 118,809,647         | 2  | \$61,413,682            |
| \$ 61,413,682          | 1  | \$61,413,682            |
| \$ -                   | 0  |                         |

Reflects accelerated payment of \$192.9 million reflected in 2015 Budget Bill to pay down outstanding balance of contributions deferred during the 2010-2012 biennium.

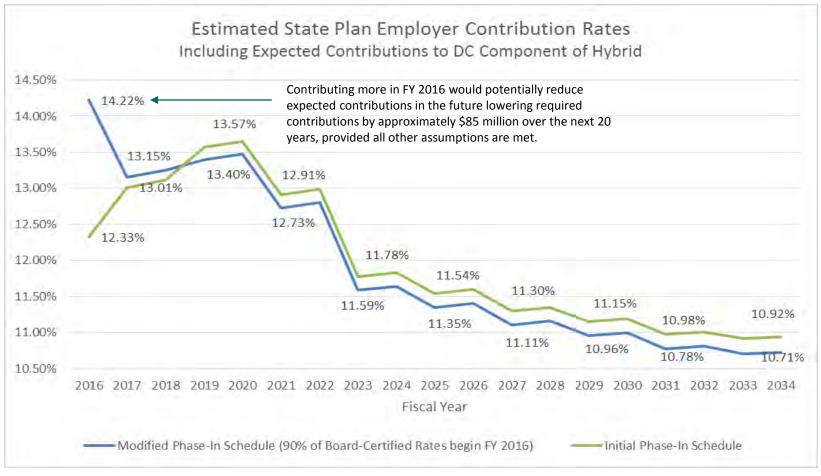
## Teacher Plan Projected Employer Contribution Rates Impact of \$192.9 Million Contribution





- Assumes employer match to defined contribution portion of the hybrid plan of 1.5% of payroll for members in the hybrid plan.
- Teacher rates in fiscal years 2016-2020 reflect accelerated payment of \$192.9 million to payback deferred contributions from 2010-2012 biennium. Accelerated payment is reflected in 2015 budget bill.
- Fiscal Year 2015 investment return estimated at 4.6%.
- Other projected years assume all actuarial assumptions are met, including 7.0% rate of return with 2.5% inflation.





- Assumes employer match to defined contribution portion of the hybrid plan of 1.5% of payroll for members in the hybrid plan.
- State rates in fiscal year 2016 reflect increase to 90% of Board-certified rate. Increase in rate from 12.33% to 14.22% is contingent on additional funding being available as reflected in current 2015 revenue forecast.
- Fiscal Year 2015 investment return estimated at 4.6%.
- Other projected years assume all actuarial assumptions are met, including 7.0% rate of return with 2.5% inflation.

### Virginia Retirement System Liabilities



#### **Unfunded Liabilities by Plan**

| Plan  | 6/30/2013<br>Funding<br>Smoothed<br>Assets | 6/30/2014<br>Funding<br>Smoothed<br>Assets | 6/30/2014<br>GASB (NPL)*<br>Market Assets |
|---|--|--|---|
| State Employees<br>(includes SPORS,<br>JRS, VaLORS) | \$8.78                                     | \$8.33                                     | \$6.76                                    |
| Teachers  | \$15.13                                    | \$14.27                                    | \$12.08                                   |
| Local Political<br>Subdivisions                     | \$4.47                                     | \$3.67                                     | \$2.51                                    |
| Total   | \$28.38                                    | \$26.27                                    | \$21.35                                   |

<sup>\*</sup> GASB Net Pension Liability (NPL) is the amount of liability not covered by the fair market value of assets. The NPL has been measured using a 7.00% discount rate.





## **Hybrid Retirement Plan**

### **Hybrid Retirement Plan**





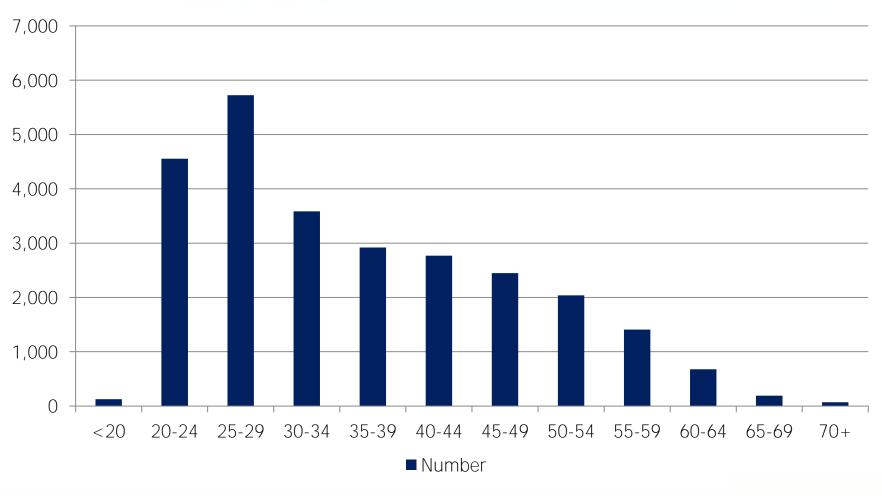
members as of March 31, 2015

• Total combined balance in the Hybrid 401(a) Cash Match Plan and the Hybrid 457 Deferred Compensation Plan is **\$16.2 million.** 

### **Hybrid Retirement Plan**



#### **Hybrid Retirement Plan Members by Age**

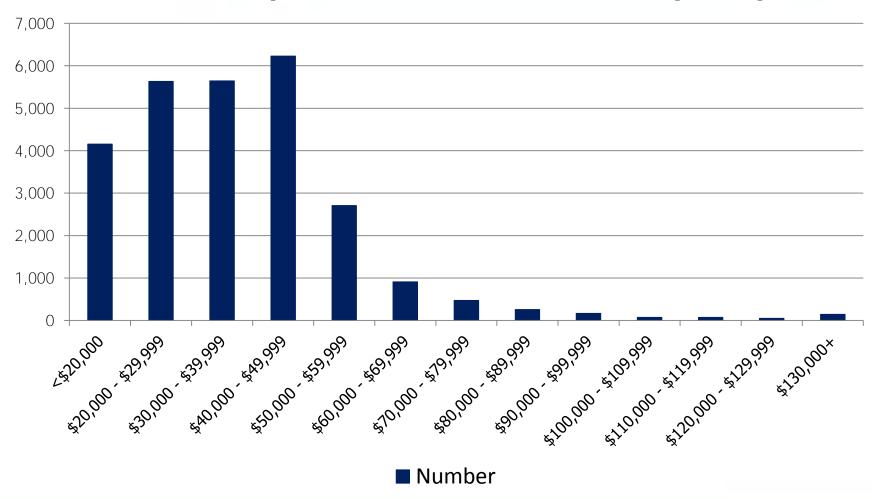


As of March 31, 2015

### **Hybrid Retirement Plan**



#### **Number of Hybrid Retirement Plan Members by Salary**

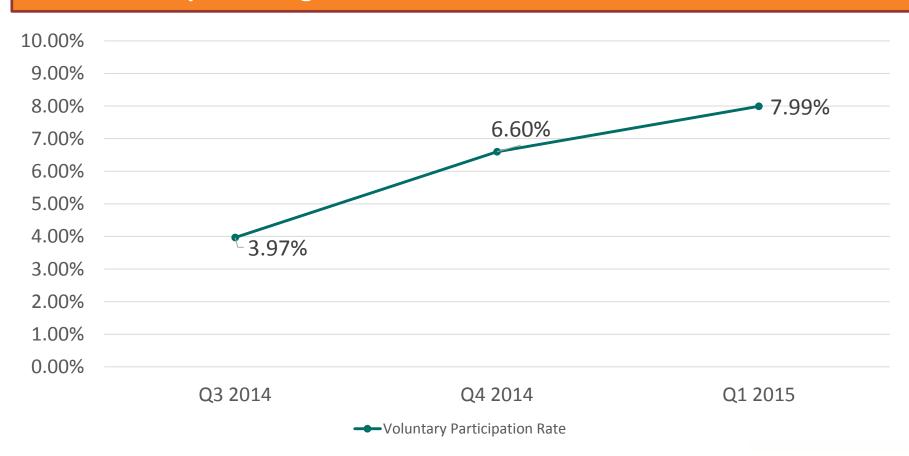


As of March 31, 2015

#### **Hybrid 457 Voluntary Participation Rate**



As of 3/31/15, 7.99% of Hybrid members have elected a voluntary contribution percentage with ICMA-RC.

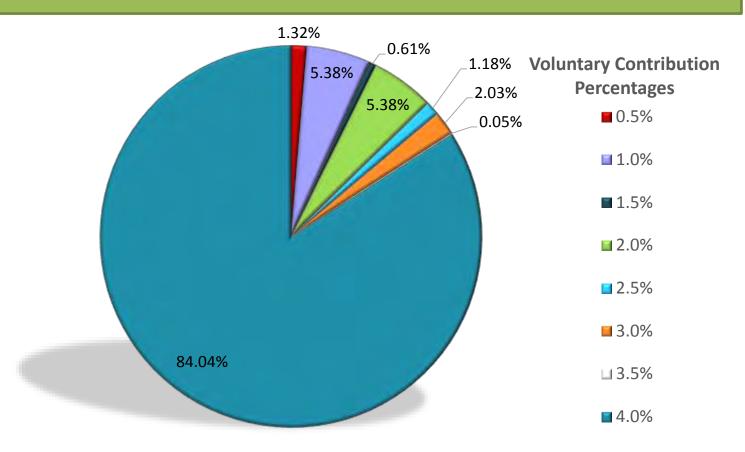


Note: The voluntary participation rates for prior quarters have been excluded because they were calculated using a different report and parameters

## **Current Hybrid Members – Voluntary Elections**



84% who elect voluntary contributions chose to maximize their voluntary contributions at 4%.



This pie chart represents an analysis of active members who have <u>elected</u>\* a voluntary contribution by March 16, 2015.

<sup>\*</sup>Changes requested between the dates of December 15, 2014 and March 16, 2015 became effective April 2015.

#### **Hybrid Communication and Education**



#### Member communication/education efforts:

- Hybrid member handbook and dedicated website
- Investment information regarding the DC plan
- Hybrid plan overview and investment videos
- In-person presentations on hybrid plan features and investment options
- Voluntary contributions campaign, including a direct mail piece
- Special communications during "Save for Retirement Week"
- Dedicated newsletter for DC plan information

#### Employer communication/education efforts:

- Employer toolkit with promotional/information materials for hybrid members
- Employer Roundtables with focus on number of hybrid employees,
   voluntary contributions and the role of the employer
- Dedicated hybrid employer website

## K

## VRS Receives Recognition for Voluntary Contributions Campaign

VRS Public Relations unit received a
 Commonwealth Award of Merit for internal campaigns from the Public Relations
 Society of America Richmond Chapter in May



- Two Commonwealth of Virginia submissions chosen as a recipient of the National Association of Government Defined Contribution Administrators' (NAGDCA) 2015 Leadership Recognition Awards in the categories of:
  - Participant Education and Effective Communication
  - Plan Design and Administration



#### **Auto-Escalation**



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If employee is not contributing the full 4% voluntary deferred contribution, the amount will increase 0.5% every three years





## **GASB Update**

#### **GASB Update**



- Governmental Accounting Standards Board (GASB) Standards No. 67 and No. 68 require substantially more financial disclosure and audit work related to public pension benefits
- The new standards are strictly for accounting and financial reporting of retirements plans
- Net Pension Liabilities (NPL) the amount of liability not covered by fair market value of assets as of measurement date:
  - Reported on the face of the balance sheet by employers
  - Could include apportioned liability from cost-sharing plans, such as the VRS Teacher Plan
- Pension funding is still based on actuarial valuation results:
  - VRS Board establishes funding policy and certifies contribution rates
  - Funding of contribution rates part of budget approval process





## **Summary**

#### **Summary**



- Gratified that the Governor and General Assembly are committed to funding contribution rates, including:
  - Acceleration of contribution rates to the state plans to 90 percent and one year ahead of schedule
  - Infusion of \$192.9 million to the VRS Teacher Plan
- Sticking with the funding plan has been viewed positively by the bond-rating agencies
- Long-range prognosis for the health of the plan is positive if the Governor and General Assembly continue to adhere to funding plan



## **Thank You**