





# **Presentation for Actuarial Consulting Services**

**December 12, 2013** 



5394154

\* Segal Consulting

## **Introductions and Presentation Objectives**

- > Segal attendees:
  - Kim Nicholl, FSA, MAAA, EA, Senior Vice President and Consulting Actuary
  - Matt Strom, FSA, MAAA, EA, Consulting Actuary
  - Cathie Eitelberg, National Director of the Public Sector Market
- > We will cover the following:
  - Segal Organization
  - Valuation Process
  - Communications
  - Value Add
  - Questions and Answers
- > Are there any other items that SURS would like to address?

This is your time and we want to address your issues.

#### **ORGANIZATION**



### **Ownership**

- > The Segal Company, founded in 1939 by Martin E. Segal, is an independent, privately held consulting firm.
- > Segal is the parent of Segal Advisors, Inc. (Segal Rogerscasey) and Segal Select Insurance Services, Inc.
- Segal has been employee-owned by its officers since 1978.
- > An 11-member Board of Directors sets policy and governs the organization.
- Implementation of policies, development of strategies and day-to-day operations are the responsibilities of the Chief Executive Officer.
- > A Senior Management Team, which reports to the CEO and runs the business, includes the Director of the Public Sector Market.

#### **Structure**



#### **CEO** and Senior Management Team



#### Strategic HR and Benefits Consulting for:

- Public and Private Corporations
- · Not-for-Profit Organizations
- · Sports Leagues
- Higher Education Institutions

# ★ Segal Consulting

#### Strategic HR and Benefits Consulting for:

- Multiemployer Funds
- Public Sector and Government Entities

#### \* Segal Rogerscasey

#### Investment Consulting Services

- Public, Private and Multiemployer Pension Plans
- Foundations and Endowments
- Financial Services Firms and Institutional Asset Owners

# ★ Segal Select Insurance

#### Insurance Brokerage Services for:

- Multiemployer Funds
- Public Sector Entities
- Private Sector Employers

#### **PRACTICES**

Administration and Technology Consulting/Claims Auditing

Communications

Compliance Health

HR Technology and Automation

Organization and Talent Performance and Rewards

Public Sector Compensation

and Bargaining

Retirement

Sales Force Effectiveness

#### **PRACTICES**

Investment Consulting

Implemented Investment

Solutions

Defined Contribution Consulting

Advisor Solutions Group

#### **OFFICES**

Atlanta Boston Chicago Cleveland Darien

Dublin Los Angeles

New York Toronto

#### PRACTICES

Fiduciary Liability

**Employment Practice Liability** 

Cyber Liability

Fidelity Bonds

#### OFFICES

Chicago New York Phoenix

#### **OFFICES**

#### Canada East Region Midwest Region New York Region West Region

Edmonton Atlanta Montreal Boston Hartford Toronto Houston

Detroit Minneapolis

Chicago

Cleveland

New York Philadelphia

Denver Glendale Los Angeles

Phoenix

San Francisco

New Orleans Princeton Raleigh

Washington, D.C.

Our legislative expertise and research functions are headquartered in the Washington, D.C. office.

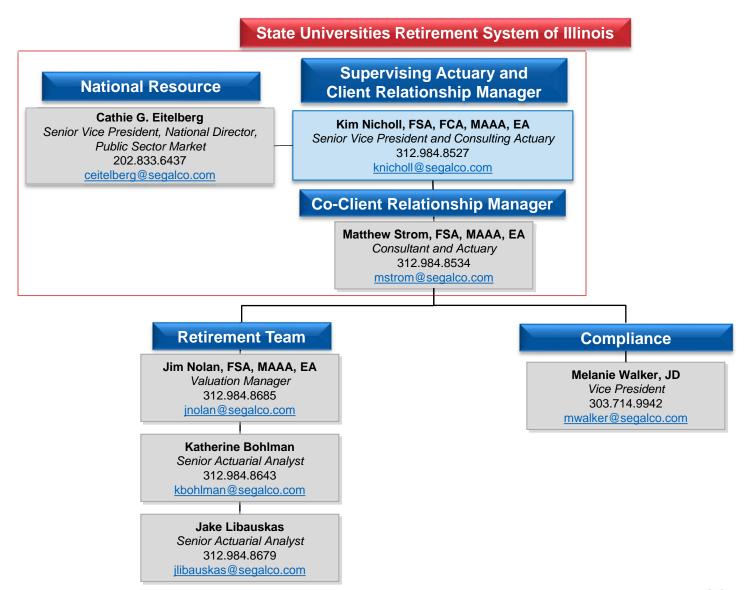
## **Breadth of Consulting Expertise**

- Retirement Plan Consulting
- Health and Welfare Plan Consulting
- Compliance Consulting
- Compensation and Collective Bargaining Consulting
- Claims Audit Consulting
- Communications Consulting
- Administrative and Technology Consulting

### **People**

- Segal has more than 900 professionals in 22 offices in the United States and Canada.
- Our headquarters are located in New York City.
- Segal's Chicago office will serve SURS, with assistance from regional and national resources, as appropriate.
- Chicago is Segal's second largest office with 137 employees.
- ➤ The Chicago office has 52 actuaries and consultants, and 51 associates with expertise in retirement plan consulting, active employee and retiree health, human resources and benefits administration, compliance, underwriting and communications.
- > The remaining staff provides clerical, HR and systems support.

## **Your Segal Team**



#### **Clients**

#### Chicago Team's Public Sector Clients (select list)

Segal has more than 400 public sector clients and 1,000 retirement clients including higher education institutions

- Alaska Retirement Management Board
- California State Teachers' Retirement System
- City of St. Louis
- Chicago Housing Authority
- Chicago Park Employees' Annuity and Benefit Fund
- Chicago Teachers' Pension Fund
- Illinois Commission on Government Forecasting and Accountability
- Illinois Municipal Retirement Fund
- Illinois State Universities Retirement System

- Michigan Department of Management & Budget
- Nevada Public Employees' Retirement System
- Missouri Local Government Employees Retirement System
- New York State Teachers' Retirement System
- North Dakota Public Employees Retirement System
- North Dakota Teachers' Fund for Retirement
- State Teachers Retirement System of Ohio
- Wisconsin Retirement System

Segal completed an actuarial audit of the SURS June 30, 2011 actuarial valuation. We have duplicated the 2012 valuation and are in the process of duplicating the 2013 valuation with the work we do for Illinois COGFA.

#### **VALUATION PROCESS**

#### Valuation Process

#### **Transition Plan**

Segal has all necessary programming in place and no start-up or learning curve is required.

#### **Valuation Process**

In performing actuarial valuations, we have an established routine that defines the sequence, methodology, and quality control on the project. The majority of the work is performed by experienced actuarial analysts and is reviewed by the Primary and Secondary Actuaries.

- Do the initial preparation
- Prepare a data request for SURS
- Review the data when received
- Develop and/or revise and test all computer programs
- Review assumptions against experience
- Complete the actuarial calculations
- Review the actuarial valuations
- Draft the reports and presentation
- Distribute the reports to SURS
- 10. Meet with the Board

Final pension reports and all GASB disclosure information will be delivered by October.

## **Diligent Quality Control Procedures**

- ➤ Three Level Actuarial Process:
  - Production staff
  - Detailed review
  - Final departmental review
- Consultant level —Seior Review" of all work
- > Annual audits by Segal's Office of the Chief Actuary, National Health Practice and National Compliance Practice
  - Comprehensive technical review of selected cases
  - Consulting review of those and other cases



## **GASB** and Funding Policy

- GASB is eliminating the ARC
  - Accounting business" vs. "Funding business"
  - But if plan has a funding policy, the resulting contribution amount is called the —Actuabily Determined Contribution" (ADC)
- Actuarially Determined Contribution
  - If determined, disclose method and amount
  - Compare Statutory Contribution to the ADC
  - GASB provides no basis for the ADC except —actual standards of practice"

The Statutory Contribution does not qualify as an ADC.

## **Three Funding Policy Components**

- > Actuarial cost method allocates present value of member's future benefits to years of service
  - Defines Normal Cost and Actuarial Accrued Liability (AAL)
  - SURS actuarial cost method is the -projected unit credit" method
  - Segal would recommend the —etmy age" method which is required under GASB 67 and 68
- Asset smoothing method manages short term market volatility while tracking MVA
  - Defines the Unfunded Actuarial Accrued Liability (UAAL)
  - SURS asset smoothing method is based on five year smoothing of annual investment returns that exceed 7.75% (gains) and fall short of 7.75% (losses)
  - Segal would recommend maintaining the asset smoothing method, but consider adding a corridor around the market value of assets

## Three Funding Policy Components continued

- Amortization method sets contributions to systematically pay off the UAAL
  - Length of time and structure of payments
  - SURS contributions are based on the Statutory Contribution as defined in the Illinois Pension Code
  - The Statutory Contribution is currently compared to GASB ARC
  - GASB ARC amortization policy is open 30-year level percentage of pay
    - UAAL amortized as single layer regardless of source of UAAL
    - Open (or, —rdhg") means the UAAL is re-amortized over a new 30-year period every year
    - Level percentage of pay means UAAL amortized with payments that increase each year by payroll growth assumption of 3.75%
    - Combination of open 30-year period and level percentage of payroll means:
      - » Amortization payment does not even cover the interest on the UAAL let alone the principal
      - » Like refinancing your home with a new larger 30-year mortgage every year

### **GASB 67/68 Implementation**

- ➤ GASB 67 provides for accounting with respect to Plans (replaces GASB 25)
  - Effective for fiscal year July 1, 2013 to June 30, 2014
- GASB 68 provides for financial reporting by employers (replaces GASB 27)
  - —Emloyers" are the entities making the contributions (e.g., State, universities, etc.)
  - Effective for fiscal year July 1, 2014 to June 30, 2015
- Net Pension Liability reported on each employer's balance sheet and in the Plan's notes to the financial statements
- Accounting and financial reporting divorced from contribution requirements
- > Annual pension expense (for employers) is essentially equal to change in Net Pension Liability during the year, with deferrals of certain items

## **Net Pension Liability Reported on Financials**

- Net Pension Liability (NPL)
  - Total Pension Liability minus market value of assets
- > NPL is required to be reported in the SURS footnotes and on the State's balance sheet
- > NPL is calculated using:
  - A new blended discount rate
  - Entrage" actuarial cost method
  - Market value of assets

#### Implications:

- Large liability must be recorded on the State's balance sheet
- Could affect credit rating and inhibit ability to borrow

### Net Pension Liability Reported on Financials continued

- Discount rate is based on projected benefits, current assets, and projected assets for current members
  - Projected assets include contributions on behalf of current members and exclude contributions intended to fund the service cost for future employees
- > For projected benefits that are covered by projected assets
  - Discount using the long-term expected rate of return on assets, 7.75% for SURS
- > For projected benefits that are **not** covered by projected assets
  - Discount using yield on 20-year AA/Aa tax-exempt municipal bond index
  - As of June 30, 2013, rate was 3.92%
- > Solve for a single rate that gives the same total present value
  - Use that single equivalent rate to calculate the Total Pension Liability (TPL)

#### Implications:

SURS will use a rate lower than 7.75%, depending on contributions

### **Expense and Funding Are Divorced**

- New GASB pension expense is the change in NPL each year (with certain deferrals) described below)
- Components of the new pension expense include:
  - Service cost (i.e., normal cost)
  - Interest on the Total Pension Liability (TPL) as of beginning of year
  - Changes in Total Pension Liability over the year (with certain deferrals)
    - Plan amendments recognized immediately
    - Changes in actuarial assumptions and actuarial gains and losses amortized over average expected remaining service lives of active **and** inactive members (including retirees)
  - Differences between actual and projected earnings over the year recognized in expense over closed 5 year period
  - Projected investment returns over the year
  - Employee contributions
  - Administrative expenses

#### Implications:

- Pension expense must be recognized in the State's financials
- Could result in confusion as pension expense will be different (and often greater) than contribution amount

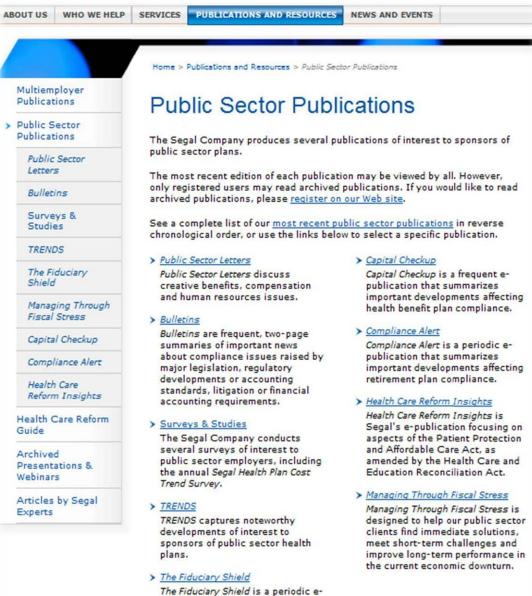
#### **COMMUNICATIONS**

## **Board Education/Training**

- Segal conducts frequent seminars and forum groups for our clients to discuss current topics of concern and new legal and regulatory requirements.
  - These seminars are held both in assembled groups and as WebEx internet-based conference calls (—webians").
  - The presentations and supporting materials are then made available on our website as an educational resource.
- Segal provides Board education training sessions on a variety of topics:
  - GASB 67 and 68
  - Setting a funding policy
  - Plan design trends
  - Optional plan designs such as variable defined benefit plans, the Canadian model and international approaches
  - Pension plans and their relationship with total compensation and changing demographics
  - Fiduciary and cyber risk management

#### **Segal Public Sector Publications**

http://www.segalco.com/publications-and-resources/public-sector-publications/



publication of Segal Select Insurance Services, Inc.

#### **VALUE ADD**



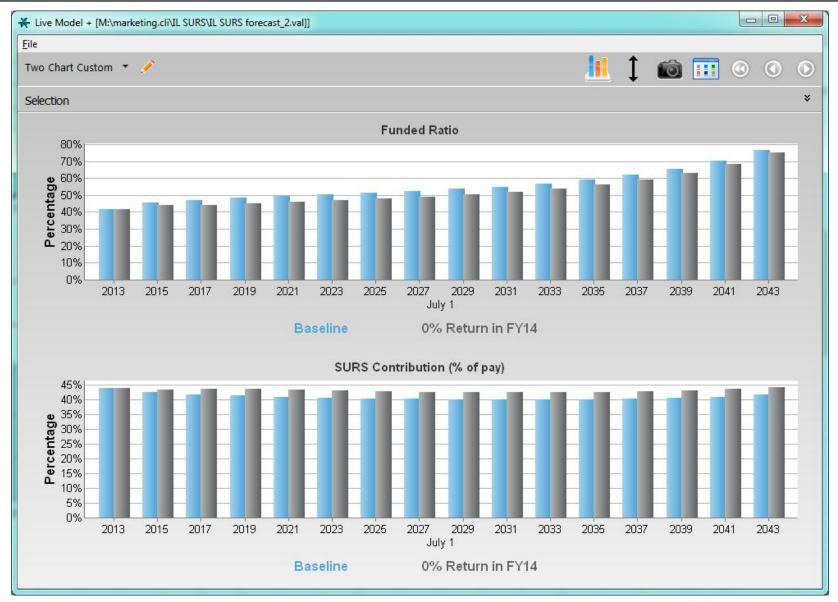
## **Forecast Live Modeling**

- Forecast Live is a decision making tool that will dynamically generate financial and actuarial deterministic projections
- > Forecast Live fosters discussion related to the current and future economic environment as well as demographic trends as the Board will see how different factors influence the Plan
- > A sample of Forecast Live functionalities include:
  - Changes in future investment return
  - Active population growth/decline
  - Different amortization methods and periods
  - Alternative plan designs
  - Changes to the investment return and salary increase assumptions
- Scenarios and charts run in a live modeling session can be saved for exporting into follow-up communications and reports
- > Populating software with current year results is a byproduct of the valuation
  - Available after valuation is complete and results are loaded and tested

# **Projection of Funded Ratio and Contribution** Requirement – Sample



# **Projection of Funded Ratio and Contribution** Requirement – Sample continued



# **Projection of Funded Ratio and Contribution** Requirement – Sample continued



#### **Public Pension Environment**

- Recovering economy
- Rising pension contributions
- Plan changes to reduce costs and risks
- Multiple accounting and reporting rules—GASB, Moody's and potential Federal requirements
- Changing workforce demographics
- Expanded media, state and federal scrutiny
- Federal Tax Reform
- Retirement Security for All
  - Hatch Bill
  - Harkin Approach

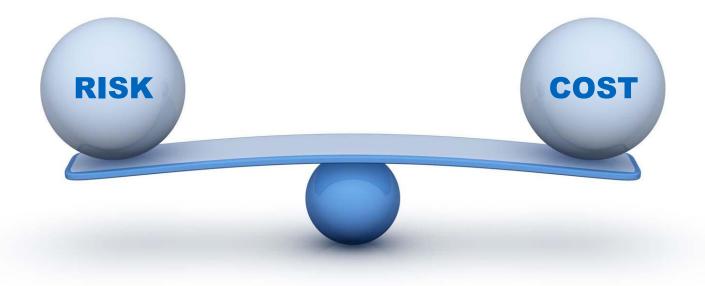


#### Public Pension Environment continued

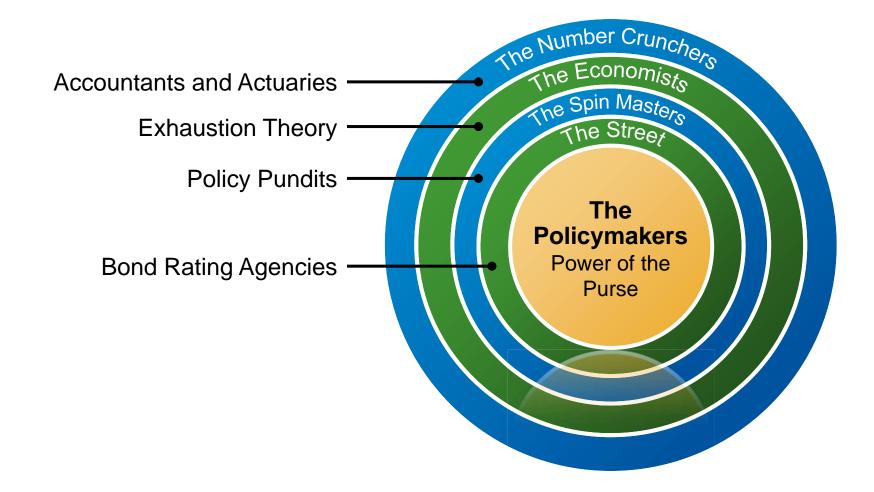
- > Print
- > TV/Cable News
- ➤ Internet—Blogs
- ➤ Opinion Research
  - Pew Center
  - Manhattan Institute
  - National Institute for **Retirement Security**
- Center on Budget and Policy **Priorities Policy Priorities**
- Center for State & Local Government
- Governmental Accounting Office Reports



## **Balance Risk and Cost**



# Cycle of Influence



## Reasons to Hire Segal

- We have detailed knowledge of the complexities of SURS
- We understand the complicated environment of public sector benefits
- Our team is highly credentialed and focuses on public sector plans
- We have the resources to meet your needs
- We will provide personal attention to you
- We communicate clearly and can explain the issues that impact your decisions
- > We provide timely and accurate information, regardless of the nature of the news
- > We perform our services with the highest level of quality review in the industry
- Segal is a privately held firm owned by its employees
- Segal supports defined benefit plans and sponsors one for its employees
- > We have worked with you in the past and demonstrated our commitment
- We want your business and will prove it to you through our actions

Helping You Make Decisions

A Tradition of Trust

## **Questions and Discussion**



#### **APPENDIX**



## **Scope of Services**

#### **Fixed Fee**

- Prepare annual valuations as of June 30
- Prepare experience study for five-year period ending June 30, 2017
- Preparation of actuarial statistical tables, actuarial summary statements and other actuarial data for the comprehensive annual financial report (CAFR) based on Governmental Accounting Standards Board (GASB) Statements 67 and 68.
- Preparation of periodic Self-Managed Plan disability study
- Provide asset/liability modeling
- Prepare actuarial cost estimates of proposed legislation (up to 6 per year)
- Support preparation of COGFA data requests and the Illinois OPFB valuation
- Consult on plan interpretation, calculation of benefits, record keeping, data processing, forms and any other actuarial consultation, as needed

- Advise Board of all legislation, proposed legislation, IRC compliance issues, IRS regulations and rulings, etc. affecting SURS
- Attend a minimum of 3 Board of Trustees. meetings per contract year
- Educate Board of Trustees and Staff regarding significant trends in the defined benefit and defined contribution marketplace
- Assist in strategic planning and development of actuarial agendas
- Perform any other actuarial duties specified in the governing ordinances

#### **Hourly Rates**

Perform other special services as requested

### **Timeline**

Following is a timeline containing various tasks and deliverables for the Services, as well as target completion dates for each step.

Service Element	Time Frame	Methodology		
	Valuation Consulting Services			
Planning meeting: discussion for plan year	January 2014 (and then every June for each	Discussion with the SURS Staff to plan the engagement, provide		
beginning July 1, 2013	subsequent plan year)	strategic planning and to establish timeframes and expectations		
		for delivery of services.		
Actuarial data request	July	Instructions/discussions concerning the actuarial data required for		
		conducting the actuarial valuation.		
Program review and update	July - August	Actuarial valuation programs will be updated as necessary (e.g.,		
		enacted legislative changes) and accuracy tests performed		
		(including test lives).		
Retiree and inactive data review and actuarial	August	Resolution of any data questions. Processing of retiree and		
valuation processing		inactive valuations.		
Active data review and actuarial valuation	September	Resolution of any data questions. Processing of the active		
processing		valuations.		
Financial data review and actuarial values/results	October	Determination of actuarial value of assets, valuation results, and		
calculated		contribution rates.		
Preliminary Valuation Results	October	Preliminary valuation results provided to SURS Staff.		
Preparation of GASB disclosure information	October	Disclosure of items required by GASB Nos. 25 and 27 (and 67		
·		and 68) and 43 and 45.		
Draft reports to SURS Staff and assist in review	October	Draft reports will be forwarded to SURS Staff for review, prior to		
of the report		the release of final reports.		
	Consulting Services			
Performing experience reviews of each	Every five years	Analyze experience for each system for five-year period and		
designated retirement system		develop recommended assumptions.		
Assisting Department staff and State Actuary with	As requested	Review legislation and proposals. Assistance with IRS		
analytical needs to respond to external requests		determination letters.		
Support preparation of COGFA data request	As requested	Instructions and discussions concerning the data for COGFA		
		required for conducting their cost projections.		
Preparation of Self-Managed Plan disability study	Minimum of every four years	Prepare and deliver self-managed Plan disability study.		

## Timeline continued

Service Element	Time Frame	Methodology		
	Proposed legislative benefit char	nges:		
Review of proposal (if possible, a copy of the actual bill draft is preferred)	Upon receipt	For most typical benefit change proposals, we are able to provide responses within five working days of the request. During the legislative session, we will provide the legislative analysis within one day.		
Preliminary review and assessment of time requirement to complete	Upon receipt	For more complicated benefit modification proposals, a timeframe of providing our responses within 10 working days' time may be warranted.		
Keep SURS informed of federal and/or tax legislation	As required	We are able to keep SURS informed of and help implement any new developments or changes in federal legislation and/or tax regulations.		
Prepare actuarial cost estimates of proposed legislation	As requested – generally within 1-10 working days	We will prepare actuarial and cost analyses as requested.		
Recommend possible improvements in financing and benefits structure	Ongoing	The Segal Company actively participates in a variety of national public sector retirement organizations, including NASRA, NCTR, NAGDCA, NCPERS, and the pension related activities of the GFOA, GASB and the NCSL. We also engage in independent research activities through which we monitor new and creative efforts of state retirement systems to enhance their funding and benefit structures. We will inform the Board of Directors of new developments and their applications and potential impact on a proactive basis through a combination of direct communications and our governmental benefits bulletins.		
Providing technical advice	As requested	We will provide technical advise as needed.		
Actuarial tables and factors	As requested	We will make recommendations for necessary or appropriate changes.		
Special benefit cases	As requested	These services will be performed on an as needed basis.		
Assisting with legal compliance and communications	As requested	Assist with drafting plan documentation.		
General consulting services	As requested	Delivery of these consulting services will depend on the nature of the issue. In most instances, we anticipate to be able to provide these services by telephone, through written and electronic correspondence or a combination of both. Where appropriate and as requested by SURS Staff, we will attend scheduled meetings to deliver these services.		

## Timeline continued

Service Element	Time Frame	Methodology
	Proposed legislative benef	
Projection services	As requested	The general projection studies performed during the year illustrating the impact of emerging experience or assumptions will balance the sophistication needed to accomplish the projections with the System required timing for the results.
		Any projections of population and pension costs will be performed showing alternative assumptions (e.g., number of actives, investment return) in consultation with the Board of Directors. Results will be presented at the Board meeting as desired by the Board of Directors.
Drafting legislation and related services	As requested	We will assist SURS Staff in drafting proposed changes to existing retirement laws.
New developments and federal legislation	Ongoing	The Segal Company closely monitors federal legislative and regulatory activity impacting the design, funding and operations of public sector retirement plans. Through a combination of activities of our National Market Leader, Legal Research Division and public sector pension consultants and actuaries, we will be able to provide to the Board of Directors a current outlook on these federal activities and issues.  We actively participate in the National Association of Public Pension Attorneys and maintain independent contacts with legal Counsel for NCTR and with legislative staff members of the NASRA and GFOA.
Specifications for data files	Ongoing	We will review the proposed form and content of the data files and make suggestions for appropriate modifications.
Asset/liability studies	As requested	Conduct or provide assistance with asset/liability studies and modeling.
Sensitivity analysis	As requested	Conduct or assist with sensitivity analysis regarding actuarial factors.
Attend meetings	As required	We will attend three Investment Committee meetings, Trustee Educational Forums, and, as requested, attend Quarterly SURS Board meetings.
Other services	As requested	Segal will provide additional consulting services and reports.

# Trends in Public Sector Plan Redesign Summary of Recent State Plan Changes

		State	State Change			
Contribution Rate Changes	Employer New Hires	CA, HI, IA, KS, LA, MN, ND, NJ, NM, TN	Raise all contribution rates     Reinstate higher contributions based on	Lower employer contribution rates     Mandate employee contributions		
	Employee New Hires	AL, FL, DE, HI, IA, LA, MN, MO, MS, MT, NY, VT, WY	funding levels or investment returns	Prohibit "pick-up" of employee contributions		
	ALL EE	AL, CO, DE, FL, KS, MD, NE, NH, NJ, ND, NM, OH, SC, TX, VA, VT, WI				
	ALL ER (+)	HI, NE, SC				
	ALL ER (-)	AL, AR, CO, FL, NM, ND, OH, TX, VT				
COLA	New Hires	CT, HI, FL, IL, MD, MI, MS, KS, OK, UT, VA, TN	Suspension tied to funding or CPI	Annual dollar cap		
	Actives	AZ, CT, FL, KS, MD, MS, OH, VA	Suspension tied to funding percentage or investment returns	Freeze based on service accrual date     Delay start		
	Retirees	CO, ME, MN, NJ, OH, RI, SC, SD, WY	Elimination tied to benefit amount	Grant after a date certain     Apply changes to non-vested		
Sponsor Contribution Rules		IA, KS, LA, MD, NJ, VA, VT	Additional contributions to ARC     Require ARC     Funding from Casino/Real Estate sales	Earmark pension savings to pay down unfunded liability     Require payment of the ARC		
Anti-Spiking	New Hires	AL, AZ, DE, FL, CO, CT, IA, IL, LA, NY, MT, WY	Limits pensionable compensation	Longer vesting period     Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth in FAS period    Cap compensation growth		
	Actives	HI, NH, NJ, NC, MD, VA, WV	Longer FAS period     Assess final year costs to last employer			
Multiplier	New Hires	GA, HI, MD, MS, MT, NH, NJ, NY, KS, WY, TN	Lower multiplier	Reduce longevity multiplier or period		
	Actives	KS, OH, VA, VT	Raise multiplier     Rolling rate based on service	Apply change to non-vested		
Retirement Eligibility	New Hires	AL, AZ, CT, DE, FL, HI, IL, MA, MN, MO, MS, MT, NH, NJ, NC, ND, OK, WV, WI, WY	Raise service requirements     Longer vesting period	Eliminate combined age/service rule     Increase combined age/service rule		
	Actives	AZ, CO, CT, OH, TX				
Retirement Age	New Hires	DE, HI, MA, ME, MO, NH, ND, NY, OK, VA, SC, WA, WY, TN	Raise normal retirement age     Apply to non-vested	Coordinate with social security normal retirement age		
	Actives	AZ, CO, ME, OH, VA, VT				
Re- employment		AZ, AK, CO, GA, IL, MD, ME, MI, MS, NM, SD, UT	Eliminate service accrual after rehire     Limit compensation	Suspend pension and health benefits based on earnings after rehire      Require full contribution		
Hybrid	New Hires	GA, IN, KS, LA, MI, UT, VA	Combine a lower multiplier DB plan with	Choice of Defined Benefit, Hybrid or Defined		
	Actives	KY, LA, TN, RI	a DC account	Contribution  New hires in Hybrid		
Defined Contribution	New Hires	NJ, NY, UT, TN	Part-time workers     Higher paid	Optional		

## Where We Are...

# Continuum of Public Retirement Plan Redesign

Defined Benefit	Combined Plans	Cash Balance	<b>Defined Contribution</b>
<ul> <li>Retention of defined benefit plan with changes for new hires:         <ul> <li>Raise retirement eligibility</li> <li>Raise contributions</li> <li>Lower multiplier</li> <li>Reduced or suspended COLA</li> <li>Eliminate rehired retirees and spiking</li> </ul> </li> <li>Some states/localities have reduced COLA for existing retirees</li> <li>Some states/localities are considering changes for future accruals for current active employees</li> </ul>	<ul> <li>Washington</li> <li>Employee choice of:  - Plan 2: DB– Employer 2% of pay plan  - Plan 3:  » DCEmployee contribution: 5% – 15%</li> <li>Oregon</li> <li>Combined DB/DC plan</li> <li>Tier II:  - DB 1.5% of pay plan employer funded  - DC 6% employee funded</li> <li>Utah (July 2011)</li> <li>Employee Choice of:  Tier II:  - DB 1.5% of pay plan  - 10% cap on employer contributions</li> <li>DC funded by -excess" employer contributions</li> <li>OR</li> <li>DC 10% employer contributions</li> <li>Rhode Island</li> <li>All workers in hybrid (7/2012)</li> <li>Virginia</li> <li>Moves all new hires to hybrids (7/2014)</li> </ul>	Nebraska (January 1, 2003)  Employees contribution: 4.8%  Employer contribution: 7.5%  Investment return guarantee:  At least 5% annual return  Potential for additional Board approved amount  Total not to exceed 8%  Louisiana  Cash balance plan for new hires enacted in 2012 but rescinded because of parliamentary failure  Kansas  Cash balance plan for new hires on/after 1/1/2015  Kentucky  Cash balance plan for new hires on/after 7/1/2013	<ul> <li>Alaska (July 1, 2006)</li> <li>All new employees</li> <li>Employer contribution: 3.5% plus 3.75% to retiree health fund</li> <li>Employee contribution: 8%</li> <li>Michigan (March 1997)</li> <li>State Employees:</li> <li>Employer contribution: 4% up to 7%</li> <li>Employee contribution: up to 3%</li> </ul>

There are many choices for redesign.

### **Proposed Fees**

#### **Annual Retainer and Project Based Fee Quotes**

						Total for
	Year 1	Year 2	Year 3	Year 4	Year 5	<b>Contract Period</b>
1. Annual retainer for consulting relationship (Includes one						
asset/liability study in contract period and travel to attend all						
required meetings)	\$48,000	\$48,000	\$48,000	\$48,000	\$48,000	\$240,000
2. Project based services						
a. Annual actuarial valuation	\$64,000	\$64,000	\$64,000	\$64,000	\$64,000	\$320,000
b. Experience study	-	-	\$40,000	-	-	\$40,000
c. Economic study	-	\$8,000	-	\$8,000	-	\$16,000
d. CAFR actuarial report and tables	Included in a.	-				
e. COGFA data	\$500	\$500	\$500	\$500	\$500	\$2,500
f. 417 limit tables	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$7,500
g. IL OPEB valuation	\$500	\$500	\$500	\$500	\$500	\$2,500
h. State Actuary response	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$7,500
Total	\$116,000	\$124,000	\$156,000	\$124,000	\$116,000	\$636,000

When selecting a consulting firm, we hope that fees never keep us from being hired. If you find that our fee is not in the range of your budget, please reach out to us.

## **Proposed Fees** continued

#### **Hourly Rates and Estimates Hours for Project Based Services**

	Primary Actuary	econdary Actuar	Review Actuary	Staff Actuary	<u>Total</u>
Hourly rates	\$415	\$365	\$245	\$185	
a. Annual actuarial valuation					
Estimated hours	18	36	60	155	269
Total	\$7,470	\$13,140	\$14,700	\$28,675	\$63,985
b. Experience study					
Estimated hours	12	36	30	80	158
Total	\$4,980	\$13,140	\$7,350	\$14,800	\$40,270
c. Economic study					
Estimated hours	6	5	6	12	29
Total	\$2,490	\$1,825	\$1,470	\$2,220	\$8,005
d. CAFR actuarial report and tables					
Estimated hours	-	-	-	-	-
Total	-	-	-	-	-
e. COGFA data					
Estimated hours	-	-	0.5	2	3
Total	-	-	\$123	\$370	\$493
f. 417 limit tables					
Estimated hours	-	0.5	1	6	8
Total	-	\$183	\$245	\$1,110	\$1,538
g. IL OPEB valuation					
Estimated hours	-	-	0.5	2	3
Total	-	-	\$123	\$370	\$493
h. State Actuary response					
Estimated hours	-	0.5	1	6	8
Total	-	\$183	\$245	\$1,110	\$1,538

## **Select Private Higher Education Clients**

**Barry University** 

**Baylor University** 

**Baylor College of Medicine** 

**Boston University** 

**Bowdoin College** 

**Brandeis University** 

**Brown University** 

**Bryant University** 

**Bucknell University** 

Caldwell College

Chapman University

Clarkson University

The Colburn School

Colgate University

College of the Holy Cross

College of Saint Benedict / Saint John's University

The College of Wooster

Colorado College

Cornell University

Columbia College

Creighton University

**Davidson College** 

Dean College

**Denison University** 

**DePaul University** 

**Drexel University** 

**Duke University** 

Elizabethtown College

**Emerson College** Fairfield University

Fielding Graduate Institute

Florida Institute of Technology

Fordham University

Franklin University

Georgetown University

The George Washington University

Gettysburg College

Gladstone Institute

Hamilton College

**Highpoint University** 

Hobart & William Smith College

Ithaca College

John Carroll University

Johns Hopkins University

Lafayette College

Lehigh University

LeTourneau University

Lewis & Clark College

Lewis University

Long Island University

Loyola Marymount University

Loyola University of Chicago

Loyola University New Orleans

Macalester College

Manhattanville College

Marist College

Marymount Manhattan College

Northwest Nazarene University

Massachusetts College of Art

Massachusetts Institute of Technology

Monmouth University

Mount Holyoke College

The New School

New York University

Niagra University

North Central College

Northeastern University

Oberlin College

Ohio Wesleyan University

Pace University

Polytechnic Institute

**Princeton University** 

Quinnipiac University

**Regis University** 

Rensselaer Polytechnic Institute

Rider University

Rochester Institute of Technology

Roosevelt University

Saint Anselm College

Saint Francis University

Saint Joseph College

Saint Joseph's University

Saint Peter's University

Salem College

Seton Hall University

Siena College

Skidmore College

Stanford University

Stetson University

St. Francis College

St. Lawrence University

St. Thomas University Syracuse University

**Temple University** 

Thunderbird School of Global

Management

Transylvania University

**Union College** 

University of Dayton

University of Denver

University of Miami

University of Mount Union

University of Notre Dame

University of Richmond

University of Scranton

University of Tampa

University of Tulsa

Villanova University

Wake Forest University

Walsh College

Washington and Lee University

Washington & Jefferson College

Washington College (MD)

Webster University

Wellesley College

Wentworth Institute of Technology

Westmont College

Widener University

Wilkes University

Willamette University

Worcester Polytechnic Institute

(WPI)

**Xavier University** 

Yale University

Yeshiva University

## **Select Public Higher Education Clients**

Arizona State University

**Ball State University** 

Central Michigan University

Central Oregon Community College

Central Piedmont Community College

Chemeketa Community College

Clackamas Community College

Cleveland State University

Coconino County Community College

Colorado Community College System

Colorado State University

Columbia Gorge Community College

Community Colleges of Philadelphia

Cuyahoga Community College

Eastern Kentucky University

Florida State College at Jacksonville

Florida State University

George Mason University

Georgia College & State University

Georgia Institute of Technology

Georgia Regents University - Augusta

Germanna Community College

Ivy Tech Community College

James Madison University

**Longwood University** 

Maryland Institute College of Art

Massachusetts Community Colleges

Medical University of South Carolina

Michigan State University

Minnesota State Colleges & Universities

Mott Community College

Northern Arizona University

Northern Michigan University

Northern Virginia Community College

Northern Wyoming Community College

Oakland University

Oakton Community College

The Ohio State University

Oklahoma State University

Oregon State University

Parkland College

Penn State University

Pennsylvania State System of Higher

Education

Pima County Community College

Palomar Community College

Portland Community College

**Purdue University** 

Radford University

Rogue Community College

State Colleges of Massachusetts

The Citadel

Texas A&M - Corpus Christi

**Texas Southern University** 

Texas State University - San Marcos

Texas Woman's University

University at Buffalo (SUNY)

University of Alaska

University of Arizona

University of Arkansas

University of Baltimore

University of California—Hastings School of Law

University of California

University of California - Santa Barbara

University of Central Florida

University of Delaware

University of The District of Columbia

University of Idaho

University of Maine System

University of Mary Washington

University of Massachusetts - Lowell

University of Michigan

University of Minnesota

University of Missouri

University of North Texas

University of Oklahoma

University of Tennessee

University of Texas San Antonio Health Sciences

Center

University of Utah

University of Vermont

University of Virginia

University of Wisconsin

**Utah State University** 

Virginia Polytechnic Institute and State University

Weber State University

Western Kentucky University

Western Michigan University

Yavapai Community College

#### **THANK YOU**



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