## SWIB

## SWIB Update

Rochelle Klaskin

Deputy Executive Director/Chief Administrative Officer

Edwin Denson

Managing Director – Asset & Risk Allocation

### Agenda

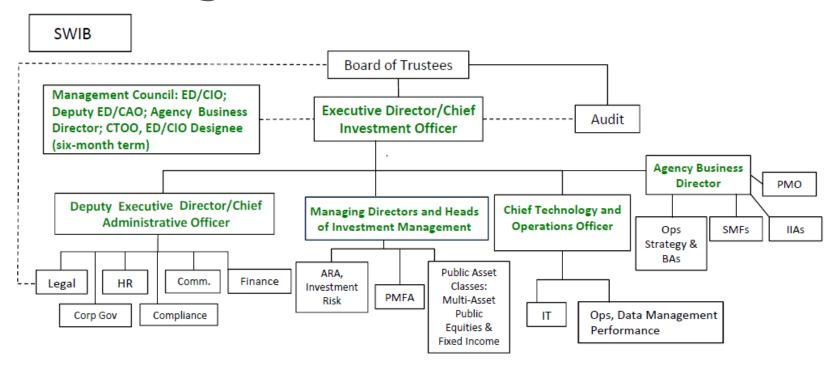
- Organizational Structure
- Performance
- Asset Allocation
- Peer Cost Comparison
- Questions



## Organizational Structure



#### SWIB Organizational Structure



#### ED/CIO

- Asset/Risk Allocation
- · Execution of Strategy & Plan
- Board Communication
- Communication Strategy
- IC Chair (Agendas)

#### Deputy ED/CAO

- Legal, Compliance, & Corporate Governance
- Finance
  - Accounting & FP&A
- o Enterprise Risk Management
- Facilities & Bus. Continuity
- Communications, External Relationship Management
- HR

#### Chief Technology and Operations Officer

- Operations Group
  - Data Management
  - Performance
  - · Investment Operations
- · Information Technology Group

#### Agency Business Director

- PMO
- Operations Strategy Planning & Coordination
- Business Analysts (BAs)
- Business Process
- Separately Managed Funds
- Investment Information Analysts



## Performance



#### 2018 Gross Performance – Core Fund

Year-to-Date as of December 31, 2018

-3.3%

Benchmark: -3.5%

3-Year

6.9%

Benchmark: 6.5%

5-Year

5.2%

Benchmark: 4.9%

10-Year

8.8%

Benchmark: 8.2%



#### 2018 Gross Performance – Variable Fund

Year-to-Date as of December 31, 2018

**-7.9%** 

Benchmark: -7.8%

3-Year

7.9%

Benchmark: 7.8%

5-Year

5.9%

Benchmark: 5.9%

10-Year

11.7%

Benchmark: 11.3%



#### Market Indicators

Year-to-Date as of December 31, 2018

Market Indicator	Year-to-Date Return
Public Equities	
S&P 500	-4.4%
Russell 2000	-11.0%
Russell 3000	-5.2%
MSCI World ex US Equities	-14.1%
MSCI Emerging Markets	-14.6%
Fixed Income	
Bloomberg Barclays Capital Govt/Credit	-0.4%
Citigroup World Govt Bonds	-0.8%



# Funding Levels Impact Effective Rate of Return

Peer group comparisons should incorporate funding levels to better understand performance and a fund's effective rate of return.

Funding Level	Investment Return	Effective Rate of Return on Liability
100%	7%	7%
70%	7%	4.9%

When a plan is not fully funded, its effective rate decreases because all of the assets needed to fund the liability are not available to earn investment returns. 75% of the income needed to fund the WRS comes from investment returns.



#### Achieving Investment Goals with Less Risk

Midwest Peer Group Comparison as of June 30, 2018

Public Pension Plan <sup>1</sup>	Funded Ratio <sup>2</sup>	Net 5-yr Returns (6/30/18)	Target Rate	5-Yr Effective Rate <sup>4</sup>
Wisconsin Retirement System—Core Fund	102.9%	7.63%	7.20%³	7.85%
Minnesota State Board	81.8%	9.50%	7.50%	7.77%
Ohio State Teachers Retirement System	77.3%	9.26%	7.45%	7.16%
Ohio Public Employees Retirement System	84.9%	8.37%	7.50%	7.10%
Iowa Public Employees Retirement System	83.6%	8.22%	7.50%	6.87%
Michigan Public School Employees' Retirement System	64.0%	10.20%	7.50%	6.52%
Indiana Public Retirement System	66.5%	6.30%	6.75%	4.19%
Illinois Teachers' Retirement System	40.0%	8.30%	7.00%	3.32%
Illinois State Employee Retirement System	34.6%	8.10%	7.00%	2.80%
Weighted Averages for 8 Peers (excluding SWIB)	67.4%		7.36%	6.27%

 $<sup>^{1}</sup>$ The majority of the information other than the 6/30/18 assets under management and returns was taken from the plan CAFR dated between 9/30/17 - 6/30/2018.



<sup>&</sup>lt;sup>2</sup>Ratio of Fiduciary Net Position to Total Pension Liability.

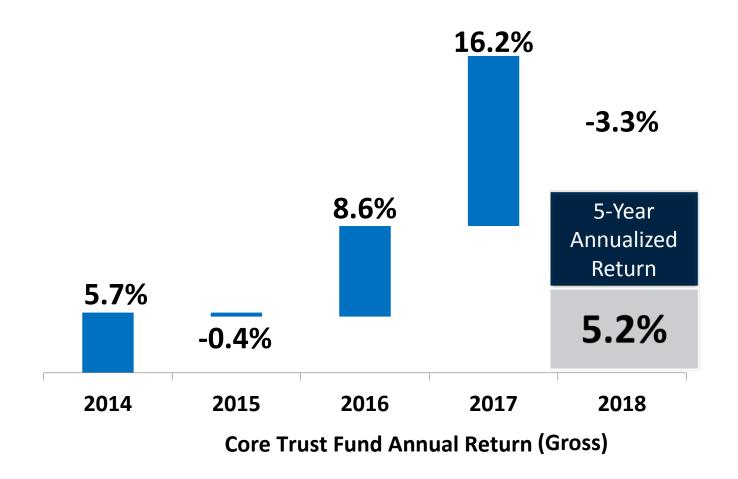
<sup>&</sup>lt;sup>3</sup>In December 2018, the ETF Board reduced the assumed rate of investment return from 7.2% to 7.0%.

<sup>&</sup>lt;sup>4</sup>Funded Ratio multiplied by Net 5-year Returns.

#### **Asset Allocation**

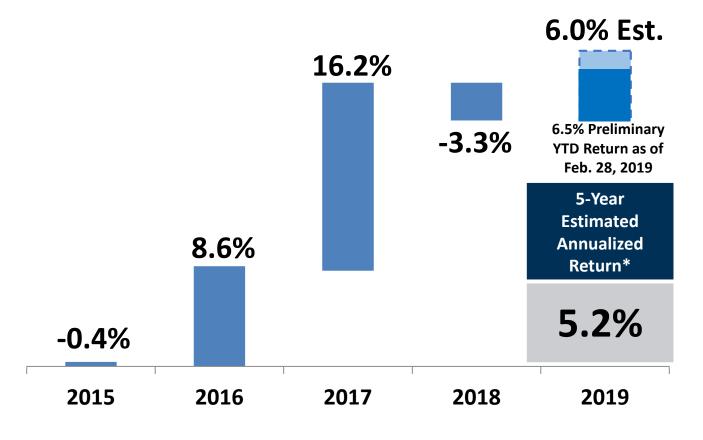


#### 2018 CTF 5-Year Return Decomposed





#### 2019 CTF 5-Year Return - ?

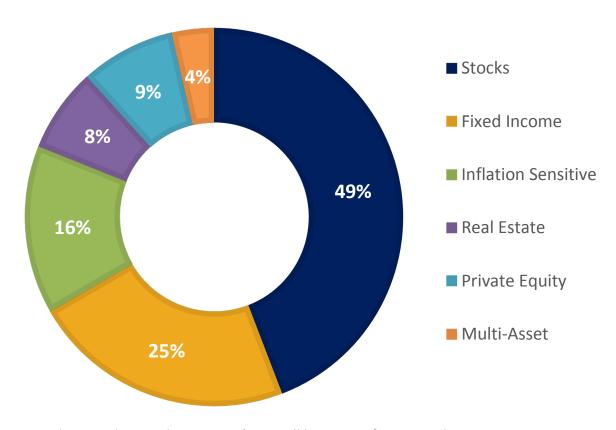


**Core Trust Fund Annual Return (Gross)** 

Source: SWIB; 5-year Annualized Return is forecast using NEPC assumptions for 2019; Gross of Fee.



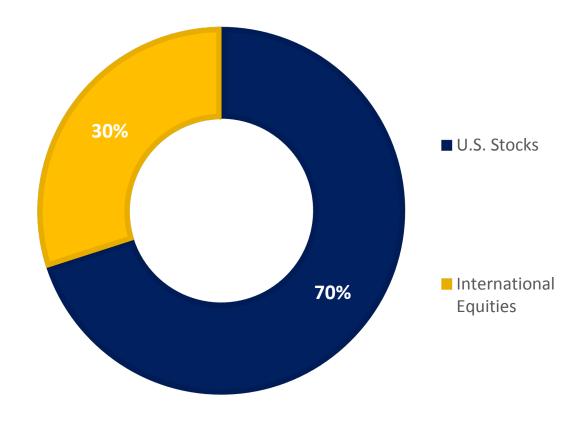
# Core Fund Asset Allocation Targets



Totals exceed 100% due to SWIB's overall leverage of Core Fund assets. SWIB's actual asset allocation may vary up to +/- 6% from the targets shown above.



# Variable Fund Asset Allocation Targets 2019





#### Active Return Enhances Total Return

5-7 Years	Return Contribution	Risk
Current Policy Portfolio	6.0%	11.8%
Active Return	0.3% to 0.8%	0.6% to 1.8%
Total	6.3% to 6.8%	12.0% to 12.4%

30 Years	Return Contribution	Risk
Current Policy Portfolio	7.3%	11.8%
Active Return	0.3% to 0.8%	0.6% to 1.8%
Total	7.6% to 8.1%	12.0% to 12.4%

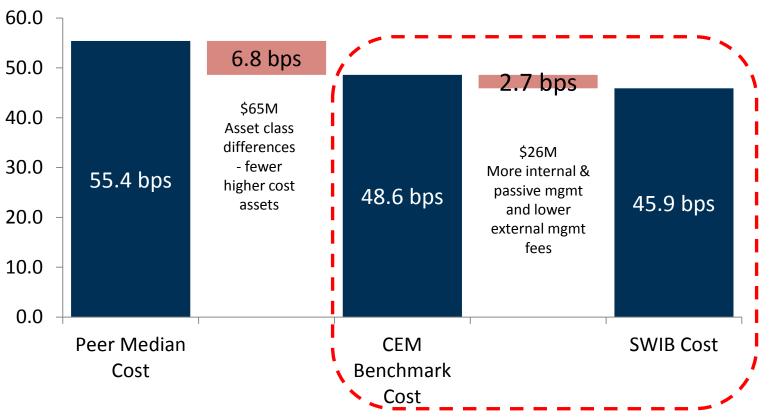


## Cost



### **Total Cost Comparison**

SWIB's costs are 9.5 bps lower than its peers. On average, SWIB's savings are approximately \$90M over its peers.





#### Lower Cost of Internal Management

SWIB's cost for internal active management is materially lower than the cost for external management.

Public Market Asset Type (active strategies)	External Mgmt Cost (bps)*	SWIB Internal Mgmt Cost
Global Large Cap Equity	42.4	66-75% lower
Small Cap Equity	65.5	66-75% lower
Gov't/Credit Domestic Fixed Income	13.9	Up to 50% lower
Global Fixed Income	39.9	66-75% lower

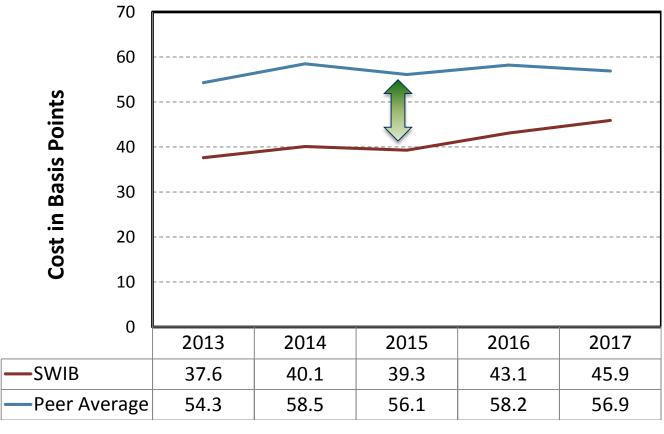
<sup>\*</sup> External costs represent the median cost for SWIB's CEM public fund peers Costs are expressed in basis points (bps) and 100 bps equals 1 percent

Data source: CEM Benchmarking, Inc. 2017 Report



#### Cost Trends – Relative to CEM Peers

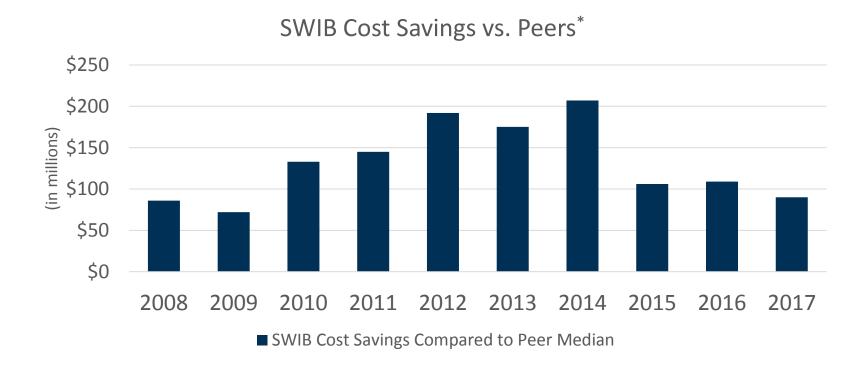
SWIB's total costs have increased since 2013, but have remained materially lower than peers due to more internal management.





#### SWIB Cost Savings vs. Peers

SWIB saved \$1.3 billion vs. peers from 2008 to 2017



<sup>\*</sup>This analysis compares SWIB's savings vs. the peer group median costs for every \$100 under management and multiplies that average savings by SWIB's median assets under management



#### Summary

#### SWIB is:

- Positioned for future success
- Continuously focused on optimization of costs
- Protecting the WRS from future downturns
- Performing favorably compared to peers



#### Stay Connected



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# Questions?

