# Global Equity Annual Program Review

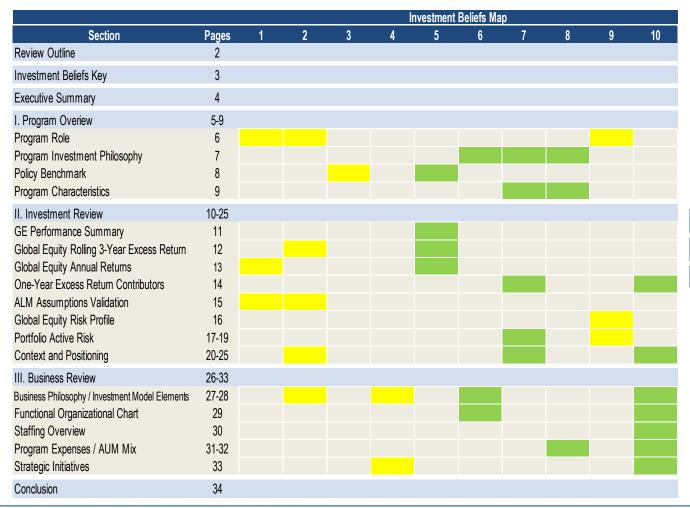
Dan Bienvenue Senior Investment Officer

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September 15, 2014



### **Review Outline**



1	Liabilities
2	Long-Term Horizon
3	Stakeholders
4	Three Forms of Capital
5	Accountability
6	Strategic Allocation
7	Risk Reward
8	Costs Matter
9	Multi-faceted Risk
10	Resources/Process



### **Investment Beliefs Key**

	Short Name	Investment Belief
1	Liabilities	Liabilities must influence the asset structure.
2	Long Term Horizon	A long time investment horizon is a responsibility and an advantage.
3	Stakeholders	CalPERS investment decisions may reflect wider stakeholder views.
4	Three Forms of Capital	Long-term value creation requires effective management of three forms of capital: financial, physical, and human.
5	Accountability	CalPERS must articulate its investment goals and performance measure and ensure clear accountability for their execution.
6	Strategic Allocation	Strategic asset allocation is the dominant determinant of portfolio risk and return.
7	Risk Reward	CalPERS will take risk only where we have a strong belief we will be rewarded.
8	Costs Matter	Costs matter and need to be effectively managed.
9	Multi-faceted Risk	Risk of CalPERS is multi-faceted and not fully captured through measures such as volatility or tracking error.
10	Resources / Process	Strong processes and teamwork and deep resources are needed to achieve CalPERS' goals and objectives.



### Executive Summary<sup>1</sup>

- Global Equity had a strong year in absolute and relative returns:
  - +24.8% total return
  - +0.5% relative to policy benchmark, delivering information ratio of 1.9
- Active risk has come down, as visibility into risks has improved. As Global Equity's research and allocation methodology improves, active risk is expected to increase, supported by informed decision making and intentional positioning.
- Business model continues to evolve:
  - "One Portfolio, One Team"
  - Focus on strategy and integration
  - Greater visibility into holistic portfolio's exposures
  - Greater use of technology

# I. Program Overview



Multi-faceted Risk

# Program Role

- Primary role
  - "The role of equities is total return oriented and to capture the equity risk premium (ERP), defined as the excess return over risk-free government bonds, by means of ownership risk in companies and exposure to corporate earnings growth." (2014 Asset Liability Management (ALM) Workshop)
- Drivers of total performance
  - Price appreciation
  - Cash yield
- Risks
  - Economic: High sensitivity to global economic growth variability
  - Liquidity: Portfolio expected to remain highly liquid



# Program Investment Philosophy

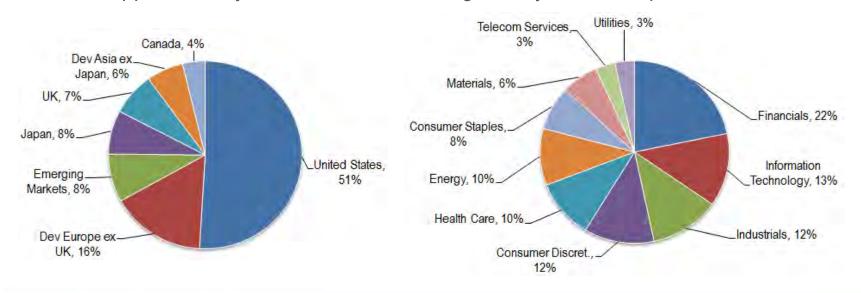
- Global equity markets are unpredictable
  - Priority on the efficient delivery of the ERP through a risk-managed combination of traditional and "smart" beta
- Sources and levels of alpha vary over time and across geographies
  - Stock selection strategies where we have conviction in the presence of skill
  - Dynamic and opportunistic timing in taking informed factor exposures
- Resulting Characteristics:
  - 67% of portfolio invested in low-cost, internally managed index-oriented strategies
  - 33% of portfolio invested in active strategies, both internally and externally managed, to capture factor and stock selection alpha
  - Low and time-varying levels of active risk in the 0-50 basis points (bps) range



# Policy Benchmark

CalPERS Custom FTSE All World, All Capitalization

- Excludes tobacco, firearms, Iran/Sudan
- Complies with emerging market principles
- Covers 47 countries, 37 currencies
- Holds approximately 10,000 securities, weighted by market-capitalization





### **Program Characteristics**

Total assets: \$159 billion

Assets mix:

— Geographic exposure: 51% U.S., 41% international developed, 8% emerging

83% internally managed, 17% externally managed

	Index Oriented	Tradition Internal	al Active External	Activists	Emerging Managers	Total
% of Assets Under Management (AUM)	67%	16%	13%	2%	2%	\$159 B
Active Risk (In bps) Contribution (In %)	2 (10%)	3 (15%)	9 (45%)	5 (25%)	1 (5%)	20
DOLLAR ALLOCATIONS	3					
U.S.	\$55 B	\$15 B	\$ 7 B	\$ 2 B	\$ 2 B	\$81 B
International Developed	\$48 B	\$ 7 B	\$8B	\$ 1 B	\$1B	\$65 B
Emerging Markets	\$ 4 B	\$ 3 B	\$ 5 B	\$458 MM	\$309 MM	\$13 B
FEES <sup>1</sup>						
One-Year Fees Paid	\$ 7 MM	\$ 2 MM	\$ 54 MM	\$ 78 MM	\$ 19 MM	\$160 MM
Cost / AUM (bps)	<b>&lt;</b> 1	∢1	26	206	59	10



### II. Investment Review



# Global Equity Performance Summary

- Strong year in absolute and relative returns:
  - +24.8% total return
  - +0.5% relative to policy benchmark, delivering information ratio of 1.9

	One-Year Net Return	Three-Year Net Return	Five-Year Net Return	Ten-Year Net Return
Global Equity	24.8%	11.3%	15.6%	7.6%
Policy Benchmark	24.3%	11.0%	15.1%	7.9%
Excess Return	0.5%	0.3%	0.5%	(0.3%)

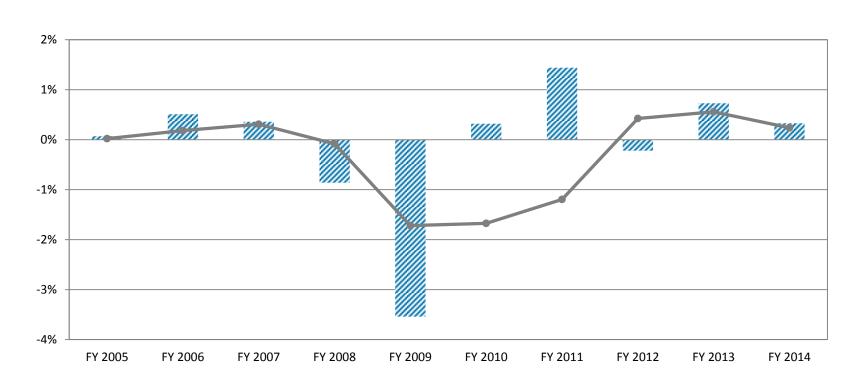
Active Risk (Realized)	0.27%	0.30%	0.50%	0.79%
Information Ratio	1.91	0.98	0.99	(0.39)



# Global Equity Rolling 3-Year Excess Return

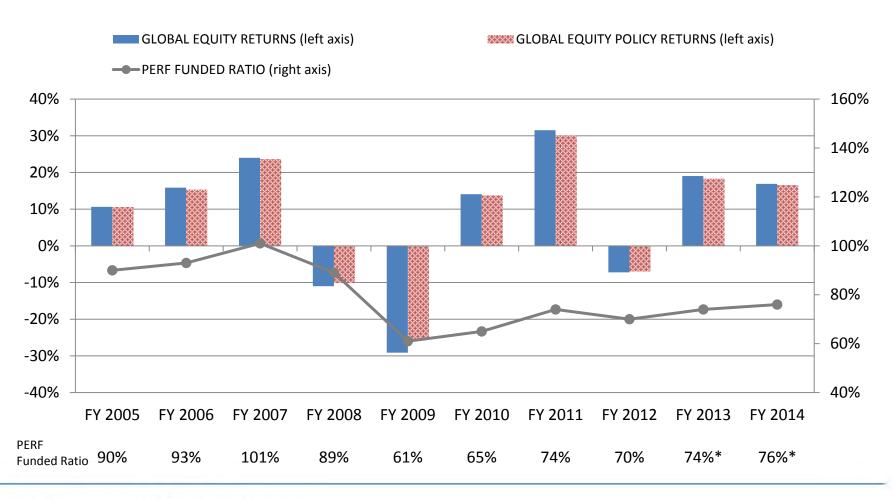
1 - YEAR EXCESS RETURNS

ROLLING 3-YEAR EXCESS RETURNS





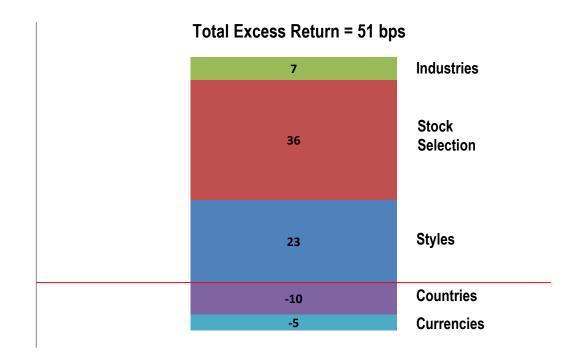
### Global Equity Annual Returns



**Global Equity** 

### One-Year Excess Return Contributors

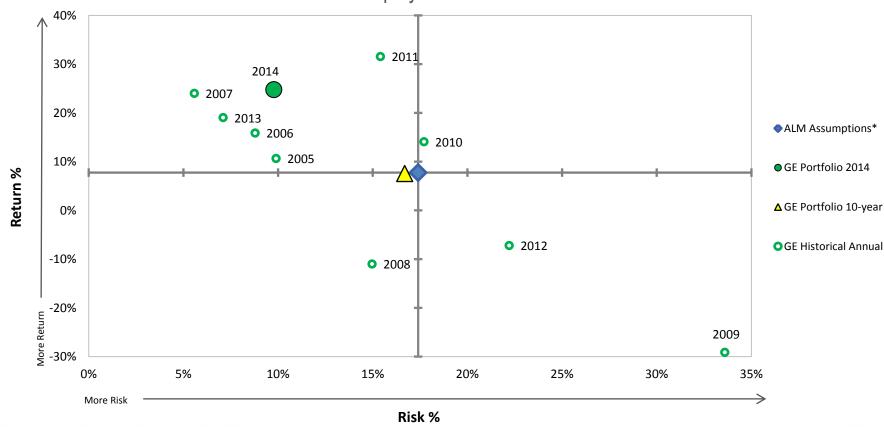
69% of Global Equity strategies outperformed their benchmarks





### **ALM Assumptions Validation**

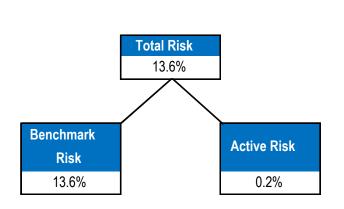




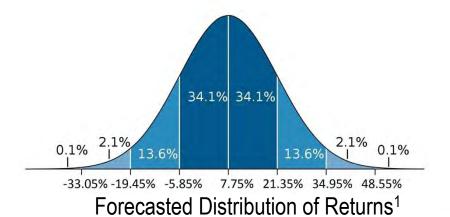
Global Equity

# Global Equity Risk Profile

- Global Equity Forecasted Risk is 13.6%
- Forecasted Tracking Error is 0.2% and is within guidelines
- 10-day value-at-risk: \$7.3 billion
- 10-day expected shortfall: \$9.0 billion



Global Equity

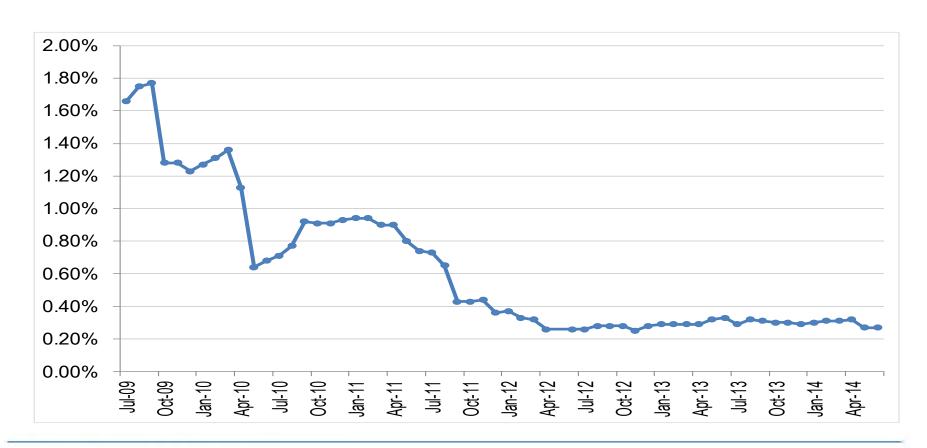




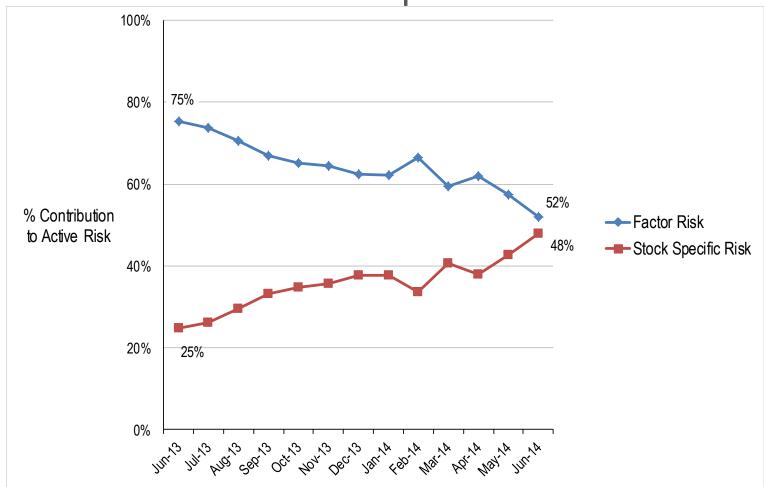
Source: Barra One, CalPERS.

### Portfolio Active Risk

### Five-Year Trend in Realized Active Risk



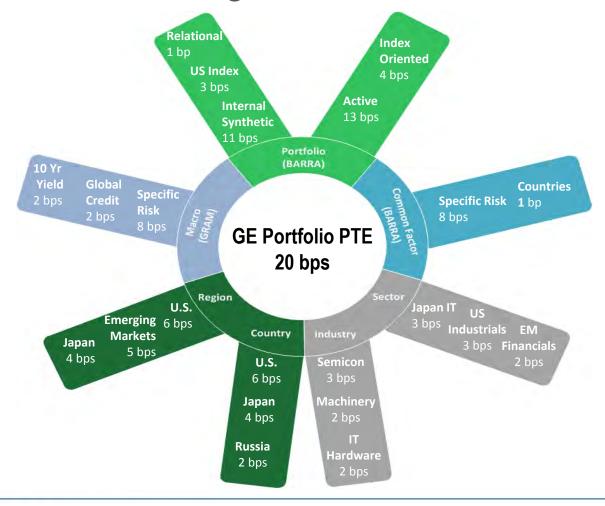
### Portfolio Active Risk Composition





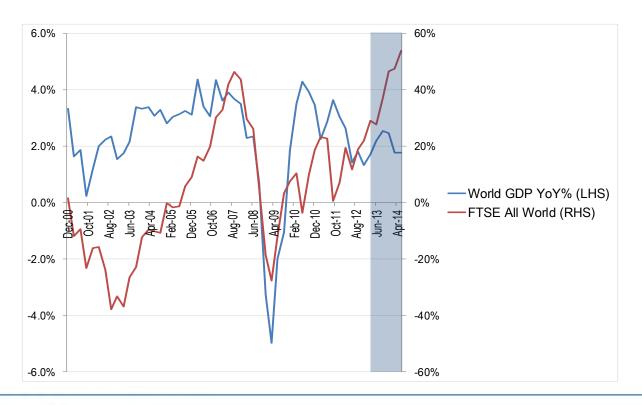
#### Multi-faceted Risk

### Portfolio Positioning — Active Risk Hub



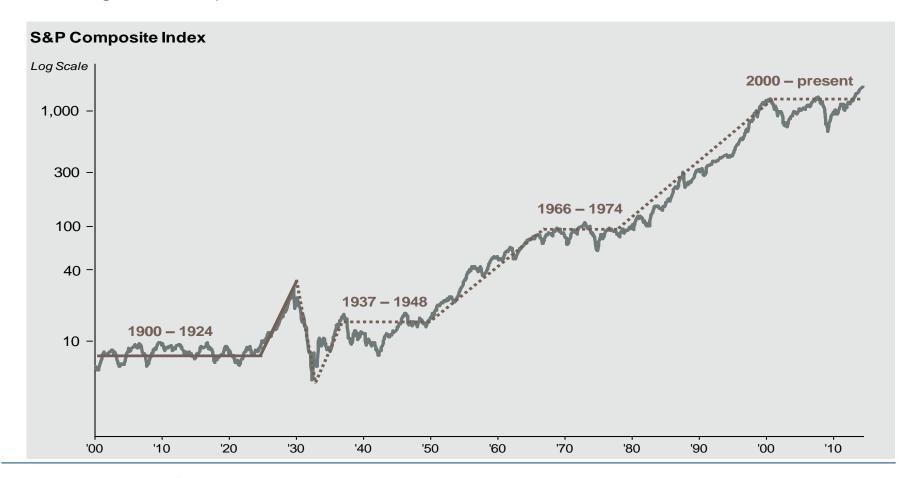
# **Context and Positioning**

- Economic and Equity Markets
  - Strong global equity market rally contrasts with global economic growth, expanding below trend through Fiscal Year 2013-14 and further decelerating since 2013 Quarter 4

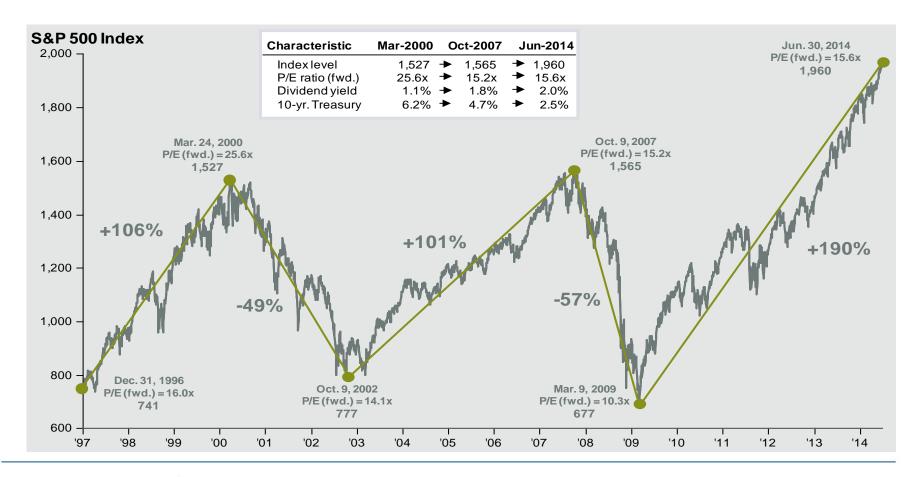




Long-term Perspective

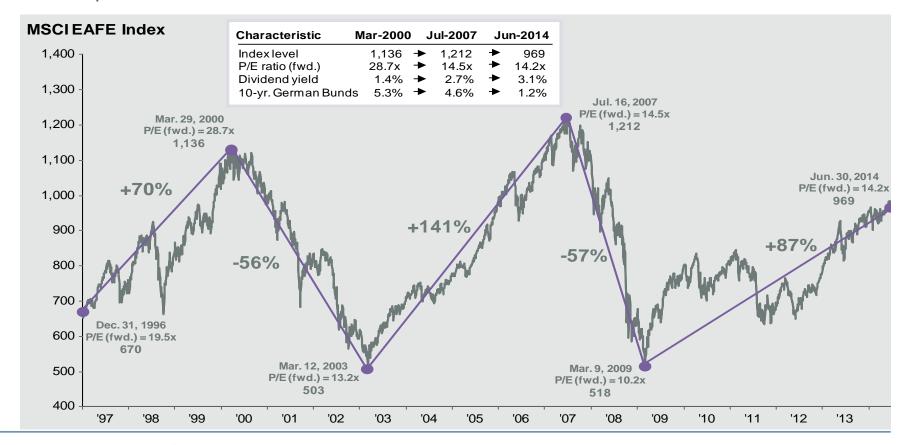


In the U.S. the past 15 years have been volatile

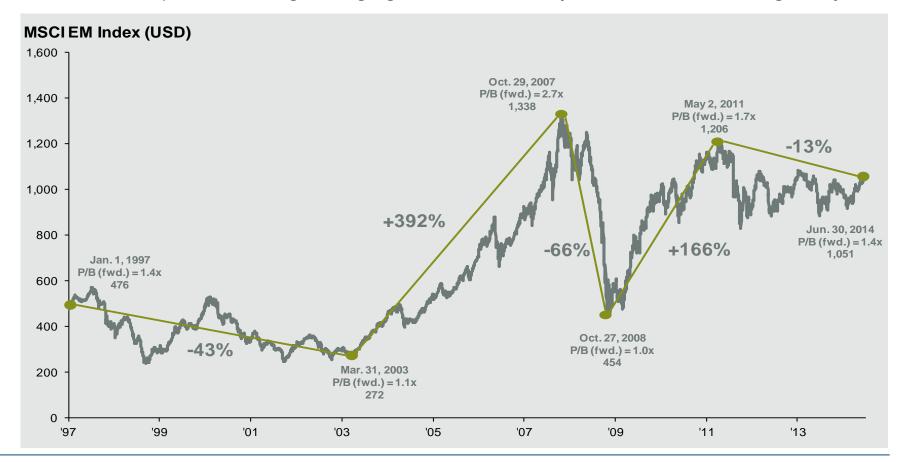


Global Equity

Similar story in international developed markets, though most recent recovery tempered



A different picture among emerging markets, but they have lost their homogeneity



Global Equity

- Belief in global economy's ability to deliver moderate growth for a sustained period
  - Watching carefully given year-to-date economic data, geopolitical events, and global monetary policy shifts
- Large Global Equity risk premium signals attractiveness of asset class, but absolute valuations call for moderate and selective risk taking
- In spite of volatility being low, the range of earnings estimates around the globe is wider than usual, which should be a good time for stock selection



### III. Business Review





# **Business Philosophy**

- Management of the holistic portfolio
  - Disciplined capital allocation process
  - Rigorous risk management
- Capitalize on strengths
  - Long horizon investor
  - Natural "long" positioning
  - Systematic harvesting of market anomalies
- Efficient deployment of the business model
  - "One Team, One Mission" culture
  - Heavy use of technology and automation
  - Continuous improvement



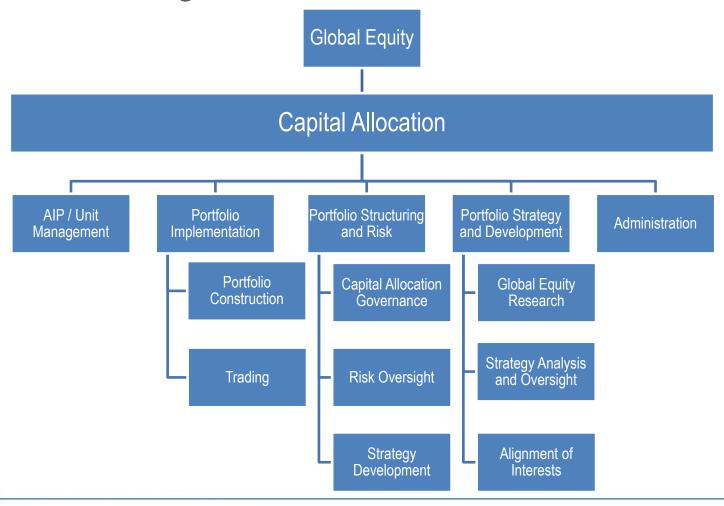
Resources/Process

### **Investment Model Elements**





# **Functional Organizational Chart**





### Staffing Overview

**TOTAL PROGRAM** 

 46 total positions within Global Equity compared to 41 positions in FY 2012-13 (addition of Affiliate Investment Programs (AIP))

STAFFING UPDATES

- Filled Senior Investment Officer Position
- Hired 1 Portfolio Manager
- Hired 3 Investment Officers

**CURRENT VACANCIES** 

- 2 Senior Portfolio Manager
- 2 Portfolio Managers
- 2 Investment Officers
- 1 Staff Services Analyst



# Program Expenses

	FY 2013 -14			FY 2012-13		
	AUM (\$billions)	Fees Paid (\$millions)	Fees Paid <sup>2</sup> (bps)	AUM (\$billions)	Fees Paid (\$millions)	Fees Paid <sup>2</sup> (bps)
Index Oriented	\$107	\$ 7	1	\$ 81	\$ 6	1
Traditional Active <sup>1</sup>	\$ 45	\$ 56	12	\$ 45	\$ 65	14
Activist Managers <sup>1</sup>	\$ 4	\$ 78	205	\$ 5	\$ 56	125
Emerging Managers <sup>1</sup>	\$ 3	\$ 19	59	\$ 2	\$ 16	61
Consultants Expense	N/A	\$ 2	N/A	N/A	\$ 2	N/A
Technology & Operating Expense	N/A	\$ 11	N/A	N/A	\$ 7	N/A
Total Program	\$159	\$173	11	\$133	\$152	11

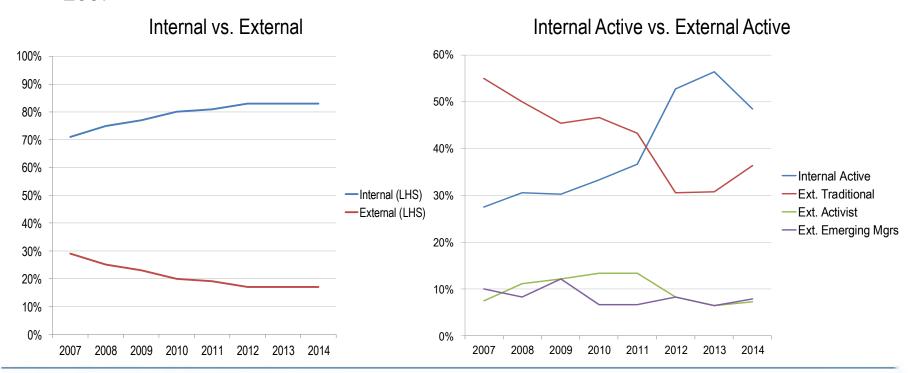




Resources/Process

# Trend in Assets Under Management Mix

- The percentage of assets managed in-house (83% today) has increased over time
- 48% of Global Equity's active strategies are now managed in-house vs. 28% in 2007





# Strategic Initiatives

INITIATIVES	GOALS		
Evolve Capital Allocation Methodology	<ul> <li>Determine strategic and tactical exposures and weights</li> <li>Develop levers for execution of desired exposures</li> <li>Improve visibility into capital allocation, attribution, and risk "mosaic"</li> </ul>		
Simplify GE Portfolio	<ul> <li>Emerging manager restructuring</li> <li>Traditional manager renegotiation and rationalization</li> <li>Activist manager rationalization (continued)</li> </ul>		
Develop Infrastructure and Organization	<ul> <li>Culture: one team, one portfolio, one business model</li> <li>Technology: PM2, unit management (AIP), capital allocation, risk</li> <li>Staffing: attract, retain, develop</li> </ul>		



### Conclusion

- Solid absolute and benchmark-relative performance from Global Equity for Fiscal Year 2013-14 (+24.8% portfolio, +24.3% benchmark)
- Key business successes in Fiscal Year 2013-14:
  - Program reorganization: one team with clearer functional responsibilities
  - Greater visibility into holistic portfolio exposures
  - Activist manager rationalization (\$15 MM+ in expected annual cost savings)
  - Capitalization of volatility anomaly strategies
- In Fiscal Year 2014-15, focus will be on:
  - Further development of capital allocation methodology
  - Simplification of the Global Equity portfolio
  - Business model evolution with a focus on culture, technology, and people

