



Private Equity Update

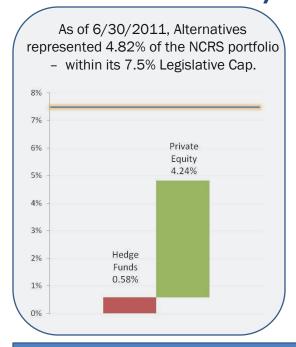
Investment Advisory Committee

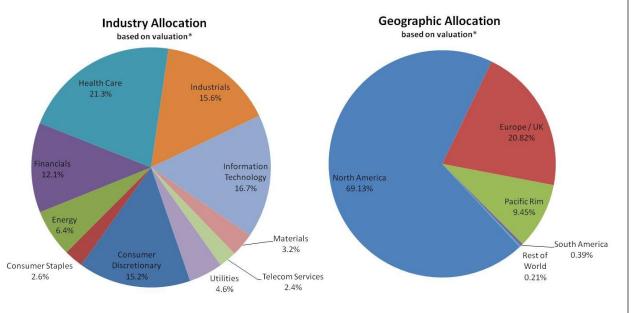
September 21, 2011

Agenda

- I. Current Portfolio Review
- II. Allocation Increase
- III. Historical Cash Flows
- IV. Current Areas of Focus

Current Portfolio / Allocation



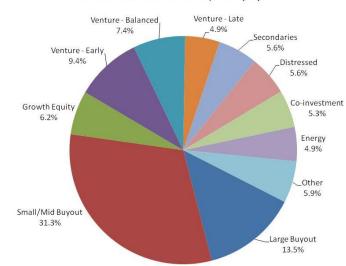


^{*}valuation based on latest available data.

Policy Targets relative to Actual Portfolio weights

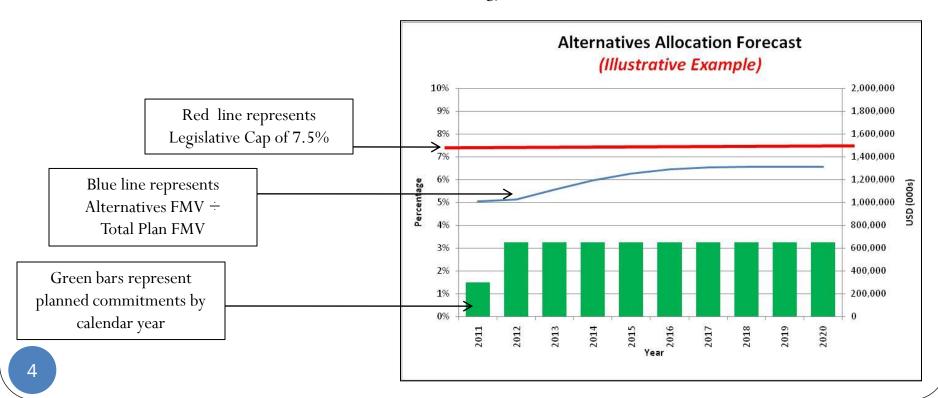
Strategy	MIN	TARGET	MAX	Actual
Buyouts	40.0%	50.0%	60.0%	44.7%
Growth Equity	5.0%	10.0%	15.0%	6.2%
Venture	10.0%	20.0%	25.0%	21.7%
Special Situations	5.0%	20.0%	35.0%	27.3%

Strategy Allocation based on commitment amount, as of 6/30/2011



Allocation Increase: managing the portfolio with additional flexibility

- In Q3 2011, the Alternatives allocation was increased to 7.5% of the Total Plan, up from its prior level of 5.0%
- The team developed a model to monitor existing, and plan future, fund commitments within the Alternatives portfolio that support strategic goals and maintain compliance with policy mandates
- New Commitments are forecast across strategies (Buyout, Growth Equity, Venture and Special Situations) at a level that maintains FMV of the portfolio without breaching the 7.5% legislative cap
- Each strategy has unique characteristics in terms of cash flows, return potential, and lifespan that will affect the Fair Market Value (FMV) of a commitment to that strategy



Allocation Model | Forecasting Alternatives and Plan FMV

Alternatives

Fair Market Value (FMV)

We forecast the FMV of existing and projected private equity fund relationship by applying the following key drivers to each capital commitment:

- > Fund term
- ➤ Return profile
- Timing of cash flows

We aggregate all fund-level valuations to forecast the FMV of the total Alternatives portfolio

Total Plan

Fair Market Value (FMV)

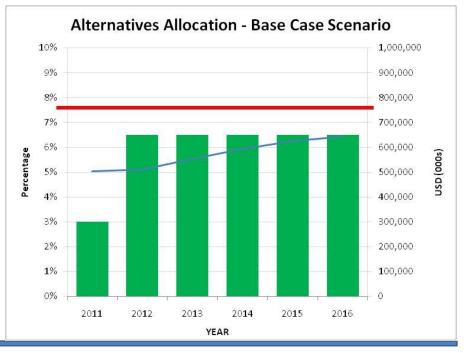
We consider the following factors to forecast the FMV of Total Plan assets:

- ➤ Member and State Contributions
- ➤ Benefit Payments
- ➤ Investment Rate of Return
- ➤ Downside Scenario Shock

Sensitivity Analysis: budgeting capital commitments based on varying market conditions

Base Case Scenario

- Return = 5.0% for Total Plan
- Achieves approximately 6.5% Alternatives allocation



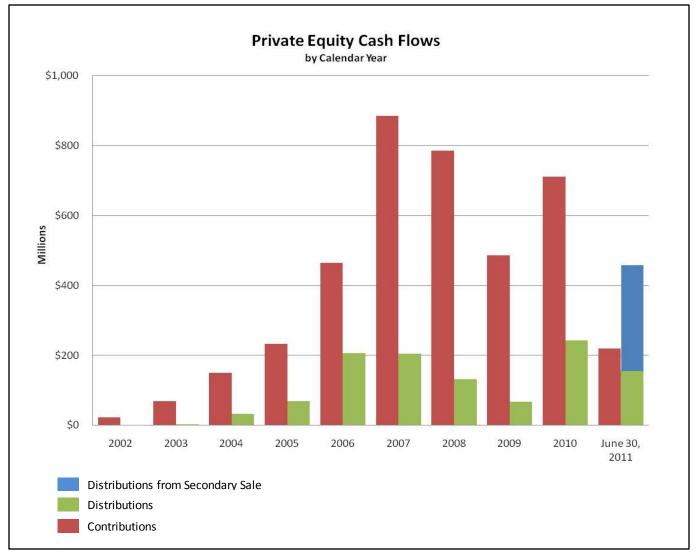
Stress Test Scenarios

- StressedYear (Y1) = Total Plan AUM decline of 26%
- Y1 + 1 year = Total Plan AUM increase of 13%
- Return in other years= 5.0% for Total Plan
- Maintains compliance with Legislative cap

	_	Alternatives as % of Total Plan								
		2011	2012	2013	2014	2015	2016			
Stressed Year	2011	n/a	n/a	n/a	n/a	n/a	n/a			
	2012	5.04%	6.94%	6.59%	6.81%	6.88%	6.79%			
	2013	5.04%	5.00%	7.27%	6.77%	6.83%	6.74%			
	2014	5.04%	5.00%	5.24%	7.46%	6.78%	6.69%			
	2015	5.04%	5.00%	5.24%	5.37%	7.47%	6.64%			
	2016	5.04%	5.00%	5.24%	5.37%	5.38%	7.32%			
mmit	ments	\$300	\$400	\$400	\$400	\$400	\$400			

Commitments
USD 000s

Historical Cash Flows



Unfunded = \$2.05 billion Market Value = \$3.18 billion as of 6/30/2011

Current Areas of Focus

Re-ups

Continue to back strongest funds rationale: first-hand knowledge of manager, strategy and track record built over multi-year period

Opportunistic

Research distressed strategies in U.S. and Europe Consider select Co-investments rationale: top managers may have the ability to deliver outsized returns in periods of economic volatility

• International Opportunities

Explore geographic diversification rationale: portfolio showing signs of home country bias

Venture Capital

Evaluate top quartile managers rationale: "Survival of the Fittest" - Fewer dollars implies only better deals supported, with less market competition for funded portfolio companies

• Middle Market Buyout Funds

Identify Funds that would complement existing buyout portfolio

rationale: Opportunity to capture outsized returns by capitalizing on market inefficiencies

