



### Five Top Challenges for Pension Fund Governance January 2012 Keith Ambachtscheer

- 1. Good Governance (raising effectiveness)
- Assess & understand the situation
- ii. Design & develop the roadmap
- iii. Implement the roadmap
- 2. Sensible Investment Beliefs / Design
- Explicit, scalability, cost effective
- 3. Robust Risk Management
- Understand & identify risks, within risk appetite
- 4. Effective Stakeholder Communication
- Keep in the loop & get buy-in for changes
- 5. Financial Sustainability
- a) Determine reasons for concern
- b) Explore solution options
- c) Consult with stakeholders

Flat year for risky

fixed income

assets and bad year for

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drought in jobs market

Negative equity price

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environment

#### Scenarios that are likely to shape asset returns in 2012 as a whole Source: Russell PROBABILITY ≈ 65% PROBABILITY ≈ 10% PROBABILITY ≈ 25% Modest recovery Downside to growth---Strong growth take-off proceeds with recession or stagnation above 3 ¼ pct. growth near 2 ½ pct. Smooth (5%) Risky assets rally Square-root-shaped across the board, **Recession contagion** recovery bond yields rise from Europe (20%) Inflation stays benign modestly Bond yields go even lower; risky assets Equity valuations rise negative modestly **Bumpy (5%)** Stagflation (5%) Inflation scare (as in Bond markets in the Longer-than-expected

core sell off mildly as

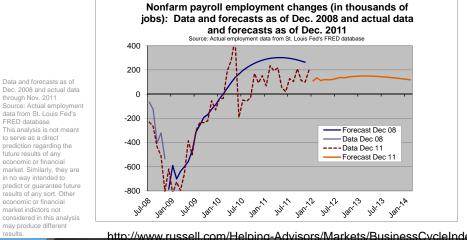
U.S. growth is not

derailed

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## We are far below where we expected to be by now

Nonfarm payroll employment changes



http://www.russell.com/Helping-Advisors/Markets/BusinessCycleInde

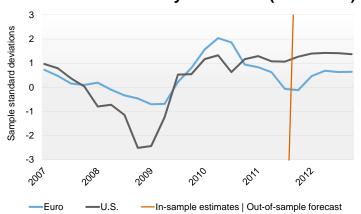
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### Eurozone is projected to have a recession; the U.S. is not

Eurozone and U.S. business cycle indices (2007-2012)

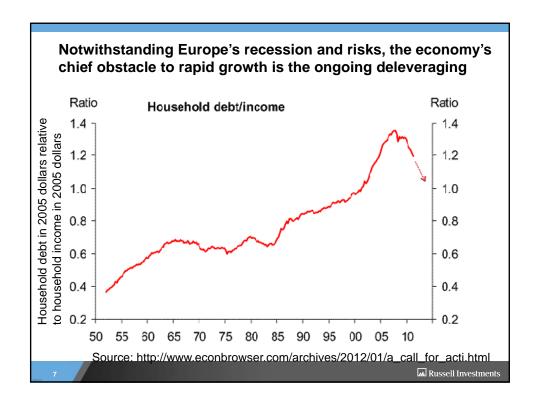
sample estimates and outof-sample forecasts are the median of the simulated values for the quarter. Outof-sample forecasts were calculated by simulating the time-series model into the future.

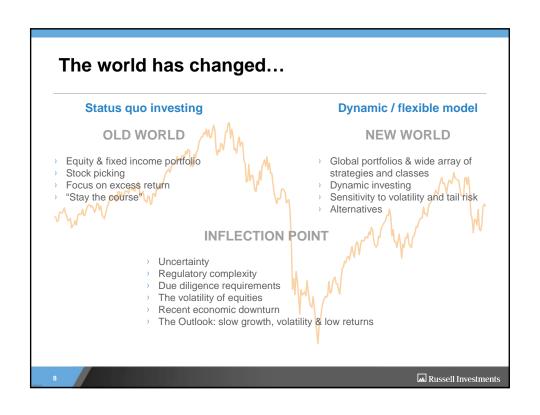
Source: U.S. recession data from National Bureau of Economic Research. Europe recession data from Policy Research.
Recession for Europe in 2002 is based on research completed by Mike Dueker, Ph.D., Russell Investments: http://research.stlouisfed.or g/wp/more/2008-001 Data as of Sept. 30, 2011

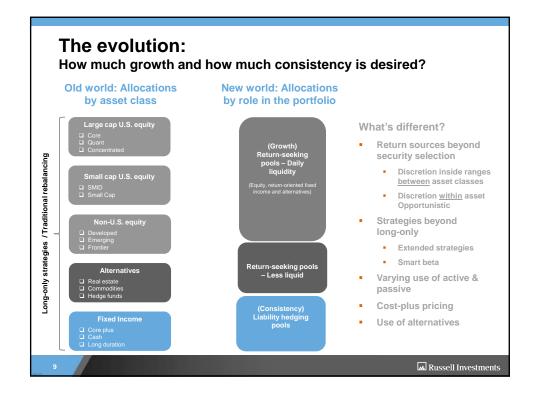


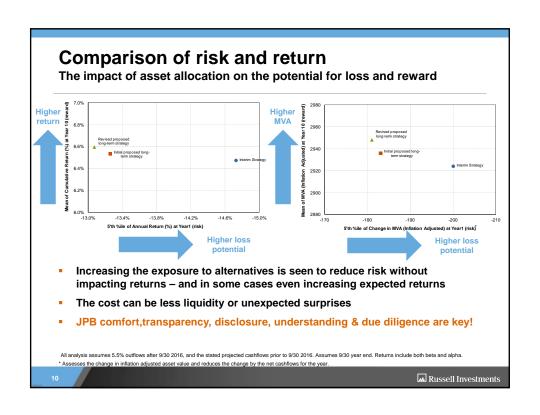
Forecasting represents predictions of market prices and/or volume patterns utilizing varying analytical data. There is no guarantee that the stated results will occur. Index performance is not indicative of the performance of any specific investment. Indexes are not managed and may not be invested in directly.

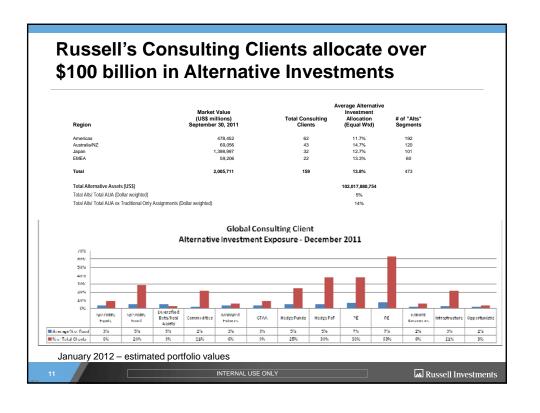
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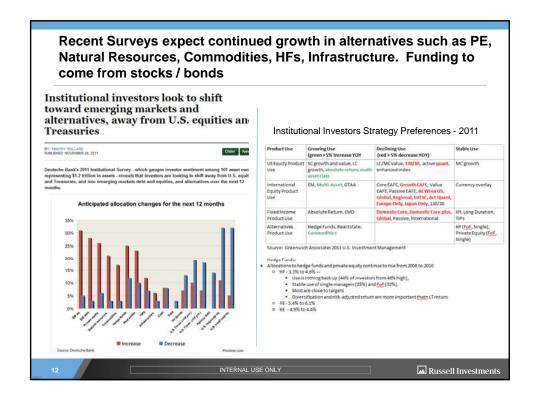


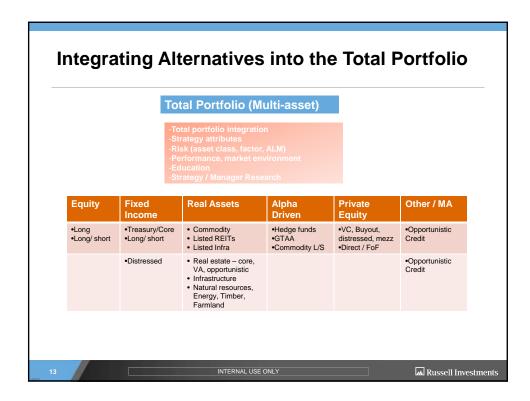












## Global Summary Common Requirements and Key Investment Ideas

#### **Common Regional & Client Requirements**

- Shift away from reliance on equity premia [beta] for long term returns
- Increased diversity and range of acceptable alternative strategies diversification, long term return, timing/alpha strategies, illiquidity premium
- Increased focus on "holistic" total portfolio outcomes greater distinction of total risk-adjusted return
  expectations, tailoring "return seeking" with "hedging" portfolios, measuring & managing multiple risk
  factors (quantitative and qualitative)
- Increased "customization" of investment portfolios (completion strategies, narrow investment "sleeves", shift from traditional FoFs) and diversity of "implementation" methods

### 2012 current investment opportunities:

- Opportunistic credit-MBS, direct lending, mortgage servicing rights, securitized product
- Tactical trading spectrum

   global macro, discretionary systematic, managed futures, CTA, short/long term, FX, GTAA
- Absolute return diversification to equity risk premia
- Private markets real estate (distressed, emerging managers, opportunistic), PE (small/mid market buyout), infrastructure, distressed turnaround, natural resources (energy, soft commodities) etc

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### **Current Environment: Messy & Unclear**

- Opportunities arise from "detail" and "politics": lack of discrimination and consistency in markets
- Diversity critical: impossible to tell which is right answer
- Outsized returns may be generated by convergence trades once greater clarity returns: currently easier to get conviction in micro than macro
- Flexibility and valuation discipline key: may be better entry points later
- Fixed income market "bubble" creates distortions and unclear implications for unwinding. Need to reconsider what can be "anchor" asset in portfolio – what is a liquid store of value?
- Need to refocus on growth as can't hedge your way out of current markets

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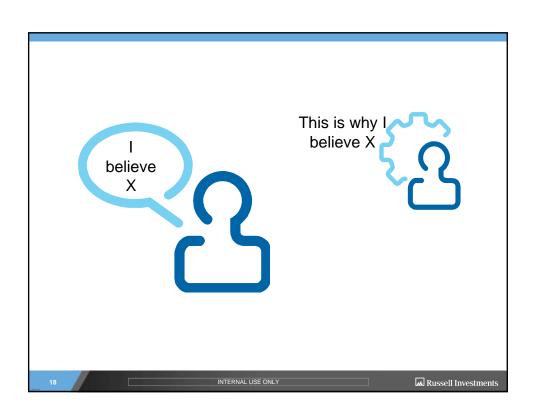
## Thematic Framework for Identifying Opportunities

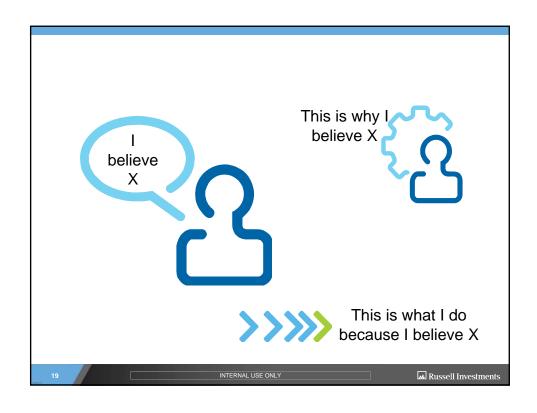
- Strawman example
- Set some thoughts on where opportunities are arising
- "Top down" identification which can then lead to consideration of how, and how best to invest

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# **EXAMPLE strategy beliefs** As implied by the current strategy

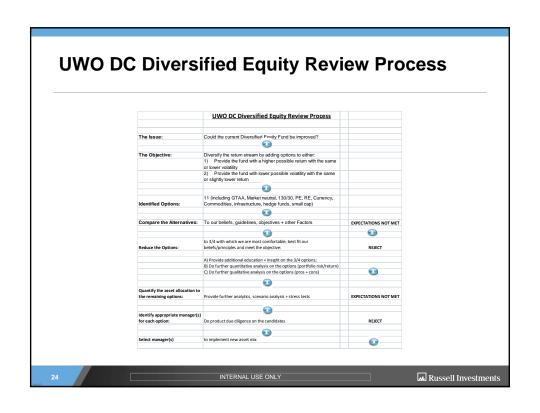
	Beliefs	Evidence
Risk tolerance	<ul> <li>Long term capital growth is the primary objective of the Diversified Equity Fund. Fund has a high risk tolerance and is able to tolerate potentially large market movement or unrealized losses over annual periods as exhibited by the 100% allocation to equity, including some exposure to emerging markets.</li> </ul>	<ul> <li>The proposed investment plan is to invest over 10% of the fund in riskier equity strategies, such as emerging markets equities and private equity.</li> </ul>
Short-term vs ong-term asset allocation	<ul> <li>Portfolio rebalancing allows to maintain the risk of the portfolio</li> </ul>	There is an explicit policy for rebalancing the Diversified Equity Fund when allocations are outside some thresholds. Monthly contributions and redemptions are also used to rebalance the portfolio
Tolerance for oss	• Fund has the ability to sustain unrealized losses.	<ul> <li>100% equity allocation with no capital protection strategies in place.</li> </ul>
Diversification across risk premia	Diversification is one method available to build a more efficient portfolio, but to achieve stated return targets the equity risk premium is of first importance.     Expect to increase diversity as portfolio grow.	<ul> <li>Fund has exposure to the equity risk premium. The proposed investment plan will add exposure to the liquidity risk premium.</li> </ul>

## Example beta beliefs As implied by the current strategy

	Beliefs	Evidence
Currency policy	Foreign currency hedging is desirable to reduce risk	Only 50% of the Diversified Equity Fund is exposed to currency fluctuations, even though 70% of the fund is invested in non- Canadian equities.
Equity risk premium	<ul> <li>Regional diversification is important, but a small domestic bias is acceptable or beneficial.</li> <li>Emerging market equities offers a strong risk / return trade-off.</li> <li>Private equity offers a strong risk/return trade-off</li> </ul>	Proposed investment of 30% in Canadian equities, which is an overweight compared to the MSCI AC World Index Emerging market equities are already reflected in the portfolio through global and international equity mandates, but a direct allocation is being discussed A private equity allocation is being discussed
Efficiency of real assets	<ul> <li>Real assets provide inflation protection to help preserve the real value of the fund and / or real assets provide higher returns than bonds while diversifying away from the equity risk premium.</li> </ul>	Proposed investment of up to10% in real assets (REITs, listed infrastructure).

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	Beliefs	Evidence
Illiquidity premium	<ul> <li>Private markets offer additional return due to leverage, manager skill and an illiquidity premium.</li> </ul>	Proposed investments into private equity.
Active Currency	Alpha is possible in active currency.	Active currency management is one of the options considered by the Joint Pension Board
Active vs passive management	Active management may add value in some markets but passive management is the Pension Board's default choice	U.S. large and mid cap equities are passively managed Active management takes place in the portfolio for the remaining assets.  The return expectations contain a positive net alpha versus the benchmark expectation.
Number of active managers	<ul> <li>Skilled managers are hard to recognize and must be monitored by experts.</li> <li>Active management risk can be reduced through diversifying across multiple managers.</li> </ul>	The portfolio is managed by nine different managers



, Diversi	fied Bond Revie	w Proc
	UWO DC Diversified Bond Review Process	
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The Issue:	Could the current diversified band fund be improved?	
The Objective:	Diversify the return stream by adding options to either:	
The Objective.	1) Provide the fund with a higher possible return with the same	
	or lower volatility 2) Provide the fund with lower possible volatility with the same	
	or slightly lower return	
Identified Options:	2 (RRB's or mortages) or better manager diversification	
	O)	
Compare the Alternatives:	To our beliefs, guidelines, objectives + other Factors	EXPECTATIONS NOT MET
	•	
	to those with which we are most comfortable, best fit our	
Reduce the Options:	beliefs/principles and meet the objective	
	A) Provide additional education + insight on the options;	0
	B) Do further quantitative analysis on the options (portfolio risk/return	_
	C) Do further qualitative analysis on the options (pros + cons)	
Quantify the asset allocation to	•	
the remaining options:	Provide further analytics, scenario analysis + stress tests	REJECT
	<u> </u>	
Identify appropriate manager(s)		•
for each option:	Do product due diligence on the candidates	
	0	
Select managers(s)	to implement new asset mix	

	APPENDIX	
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