### **CFE West** Effective Strategies to Mitigate Risk Exposure

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## Agenda

- Definition of Risk
- What is Investment Risk?
- Sources of Investment Risk
- Managing Risk
- Conclusions on Investment Risk
- Non-Investment Risks
- Questions



## **Definition of Risk**

- <sup>1</sup>Risk: Exposure to possibility of loss, injury or other adverse or unwelcome circumstance
- Financial risk: chance that return on investments is less than expected

Note: <sup>1</sup> Source: Oxford English Dictionary



## **Investment Risk**

- How do you define risk?
- 1. Losing money: safe investments (T-bills) currently yield 0.6%
- 2. Ability to keep pace with inflation: currently 1.5%
- 3. Volatility of return (standard deviation): common in Finance
- 4. Ability to keep pace with spending policy: CPI+3.5%
- 5. Other: VAR, Sharpe, Downside Risk, Information Ratio?





## **Investment Risk**

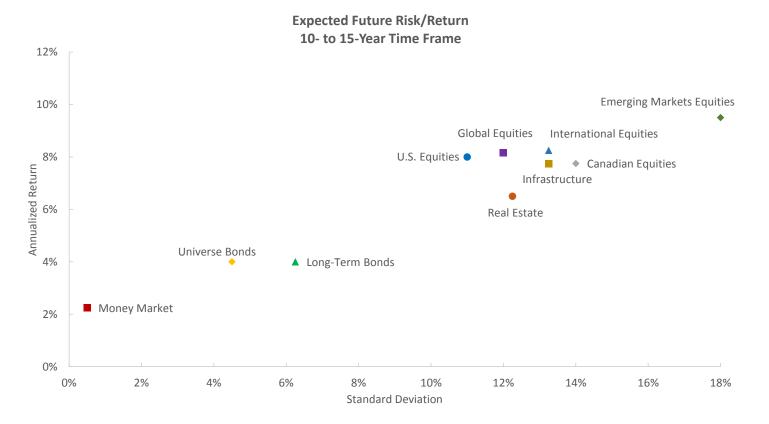
- Typical E&F Investment Objective:
  - Long-term / perpetual
  - CPI+3.5% p.a.
  - At lowest risk possible (chance of losing capital over 1 year )
  - Lower risk / more certainty comes with lower return



## **Risk/Return Relationship**



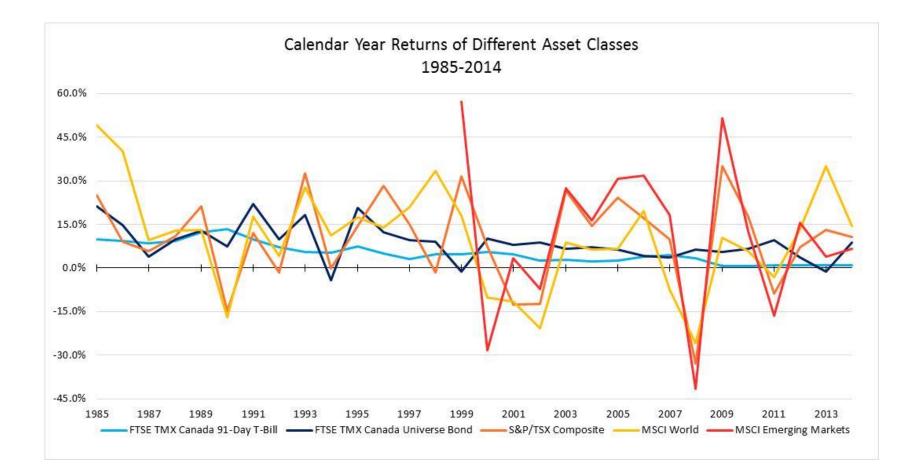
• Risk & return looking forward



Sources: J.P. Morgan Asset Management Long-Term Capital Market Return Assumptions (Canadian Edition), 2014 Edition George & Bell Consulting Capital Market Expectations



## **History of Returns**





## Sources of Investment Risk

The following risks all contribute to overall Fund risk:

- Market risk: risk of capital loss due to market movements e.g. stock market
- Liquidity: ability to sell investments at short notice
- Credit risk: risk of default on fixed income investments (interest and/or principal)
- Interest rate risk: impact on capital values and investment returns due to changes in interest rates
- Inflation risk: risk that returns don't keep pace with inflation
- Legislative risk: changes in laws can impact capital values and returns
- Political risk: changes in government policies
- Currency risk: risk of loss of capital and income from foreign investments due to fluctuations in exchange rates
- Business risk: risk of loss of return due to specific business strategies and operations
- Fund manager skill: ability of fund manager to deliver on expected returns
- Derivatives: not a risk, but can be used to reduce or magnify risks



## Managing Risk

• Total Fund Risk Management:

1. Diversification:
O By asset class
O By securities

2. Investment Policy restrictions control most other risk

## **Diversification by Asset Class**



- Empirical studies show that asset allocation explains between 93-100% of the variation in a portfolio's returns<sup>1</sup>.
- Correlation of returns is key e.g. Canadian Equities vs. Bonds: -0.1, Canadian Equities vs. Global Equities: +0.5
- Asset class diversification:

		Asset Mix	
Asset Class	Minimum	Benchmark	Maximum
Canadian Equities	15%	25%	35%
Global Equities	15%	25%	35%
Fixed Income	30%	40%	50%
Real estate	0%	10%	20%
Short-term Investments	0%	0%	20%

#### • Setting asset allocation: combination of modelling and judgement

<sup>1</sup> Gary P. Brinson, I. Randolph Hood, and Gilbert I. Beebower, *Determinants of Portfolio Performance*, The Financial Analysts Journal, July/August 1986 Roger G. Ibbotson and Paul D. Kaplan, *Does Asset Allocation Policy Explain 40%, 90% or 100% of Performance?*, The Financial Analysts Journal, January/February 2000

### **Risk Controls in Investment Policies**



Risk:	Risk Control:	
Market risk	Diversification: asset mix ranges and re-balancing	
Business/industry risk	Diversification: e.g. max 10% in one stock/sector	
Inflation risk	Asset allocation e.g. real assets	
Liquidity risk	Limit on holdings in illiquid assets e.g. 20% of Fund	
Interest rate risk	Target duration of bond portfolio	
Credit risk	Limits on credit quality e.g. min BBB credit rating	
Currency risk	Limits on foreign investments; currency hedging (not always risk reducing!)	
Political/legislative risk	Due diligence	
Fund manager skill	Due diligence and monitoring	
Derivatives	Limits on usage: hedging, not speculation	



## **Conclusions on Investment Risk**

- Unfortunately, almost all risky assets move with economy (varying by amount and timing)
- Extreme or prolonged poor economic news difficult to handle
- Volatility of returns can be managed unless it reaches obscene levels
- Most Funds, though, can't handle
  - A 0% annualized real return over a 20 year period
  - Regardless of whether the return was achieved through violent swings or slow drips
- Little chance of predicting and avoiding this outcome if capital markets decide to go there



## **Other Risks**

- The Non-Profit Attack Surface
- Financial Statements and the Stories They Tell
- Cost Per Dollar Raised and the Budget
- Sustainability



## **The Non-Profit Attack Surface**

- In what ways might we be attacked?
- How can we mitigate the risk of attacks?



# Financial Statements and The Stories They Tell

- Are the stories compelling?
- Do your audiences understand them?
- How do we tell financial stories in ways that reduce risk?



# Cost Per Dollar Raised and the Budget

- Are your cost ratios at the level that they need to be?
- How do we reduce the perceptual risks in our cost per dollar raised statistic with external stakeholders such as our boards?



## Sustainability

- What does your financial future look like?
- How can we change our destiny?



## Some Last Words on Risk

- Risk management in all areas needs to be a management leadership focus.
- Board involvement and understanding of the organization's risk tolerance is key.
- Always be in the best defensible position.



## Questions

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