Holistic Approach to Portfolio Construction

CPBI Professional Development Day Dan Kim, Associate Partner, Hewitt EnnisKnupp May 29, 2014



DB vs DC

DB Plans have two core competitive advantages:

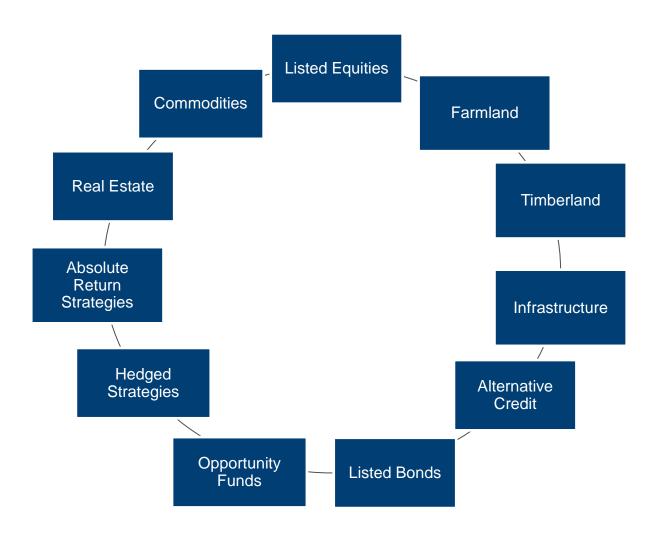
- 1. Long term investment horizon
- 2. Excess liquidity

DB investors should use this competitive advantage to:

- 1. Develop a more efficient risk/return portfolio through broader (β) diversification. This is the lowest hanging fruit in portfolio management
- Harvest additional outperformance (α)
- 3. Harvest illiquidity premium
- 4. Structure portfolios that can behave differently under different factor behaviour (lower risk portfolio, higher inflation portfolio...)

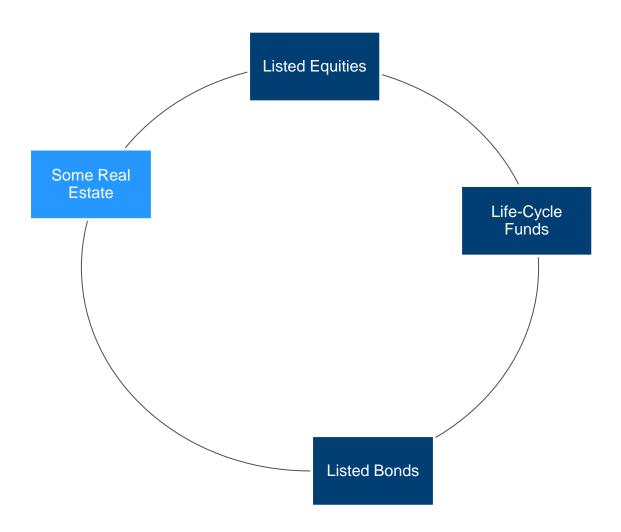


Define Benefit Options



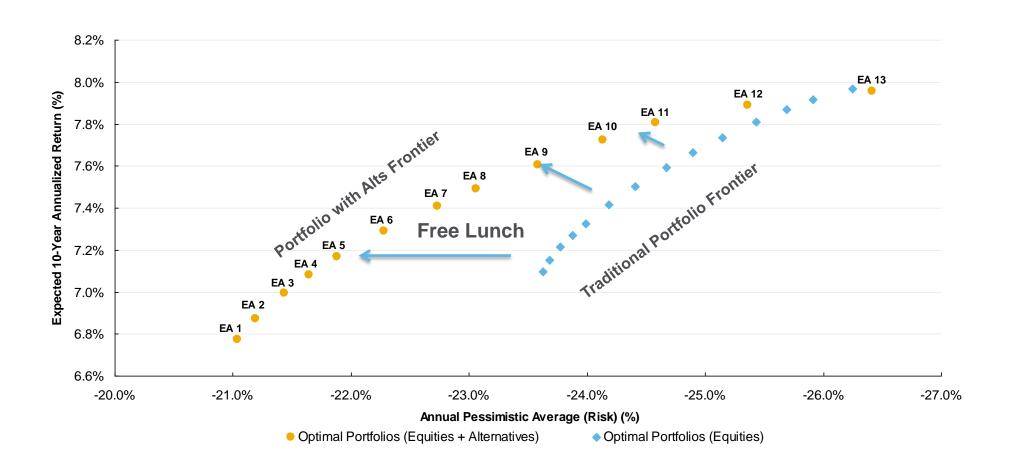


Define Contribution Options





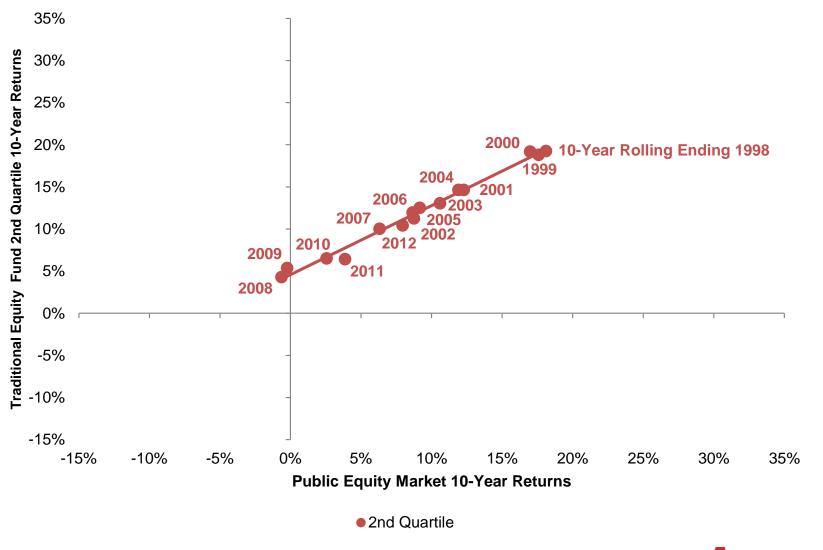
Efficient Frontier: Traditional-Only Vs Traditional + Alternatives





The Equity Portfolio: Traditional Active

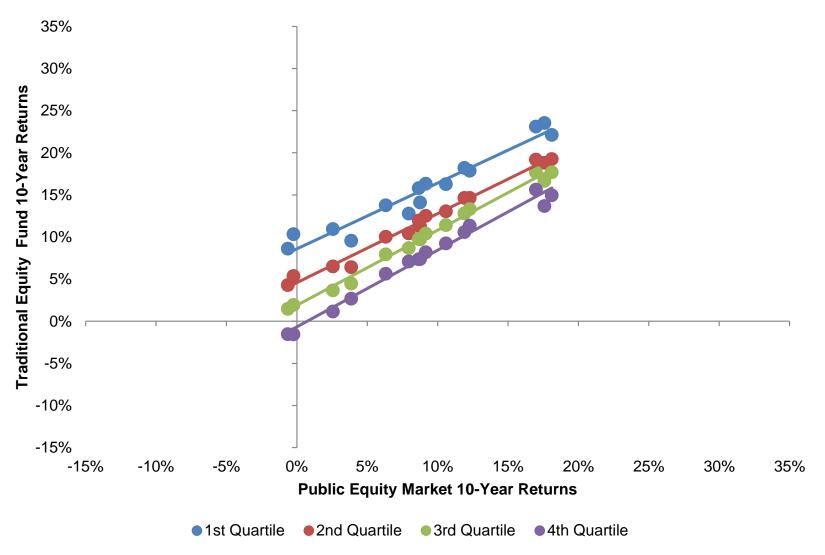
Rolling 10-Year Returns (2nd Quartile)





The Equity Portfolio: Traditional Active

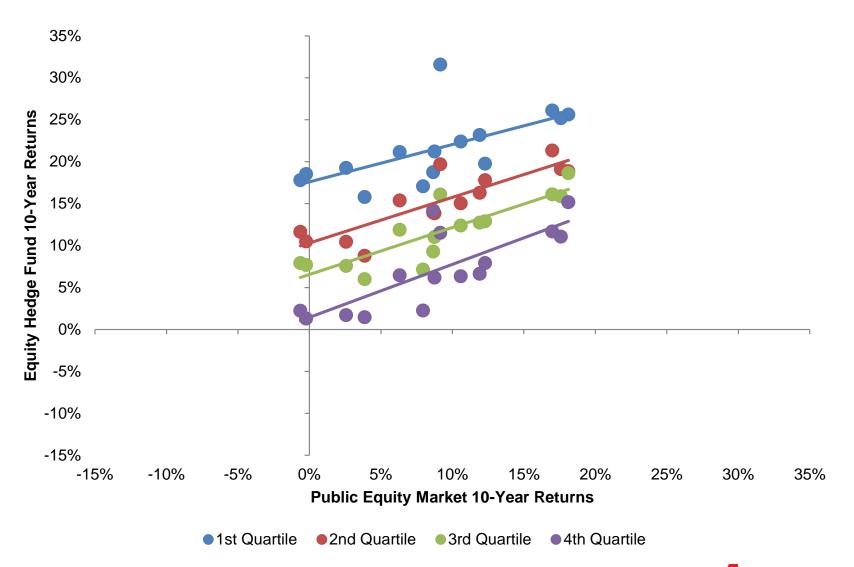
Rolling 10-Year Returns By Quartile





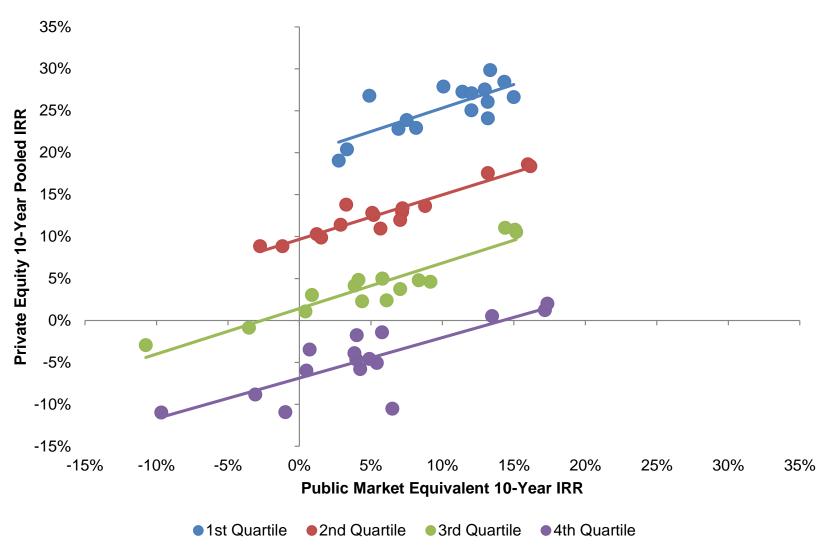
The Equity Portfolio: Equity Hedge Funds

Rolling 10-Year Returns By Quartile



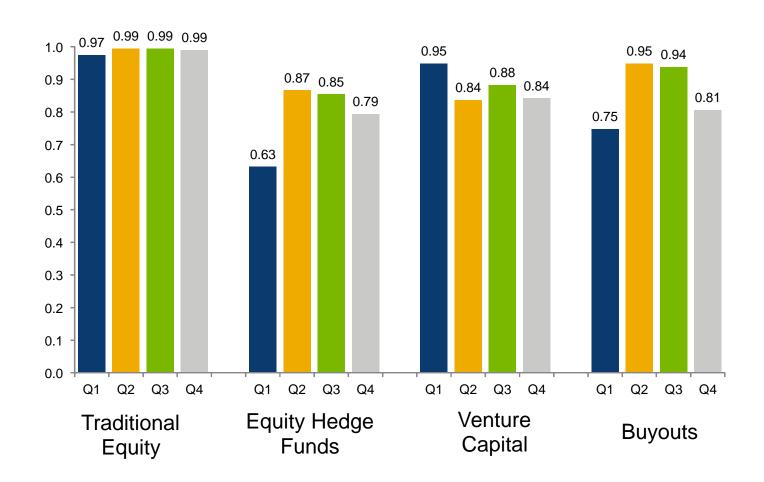


The Equity Portfolio: Buyouts Rolling 10-Year Pooled IRRs By Quartile





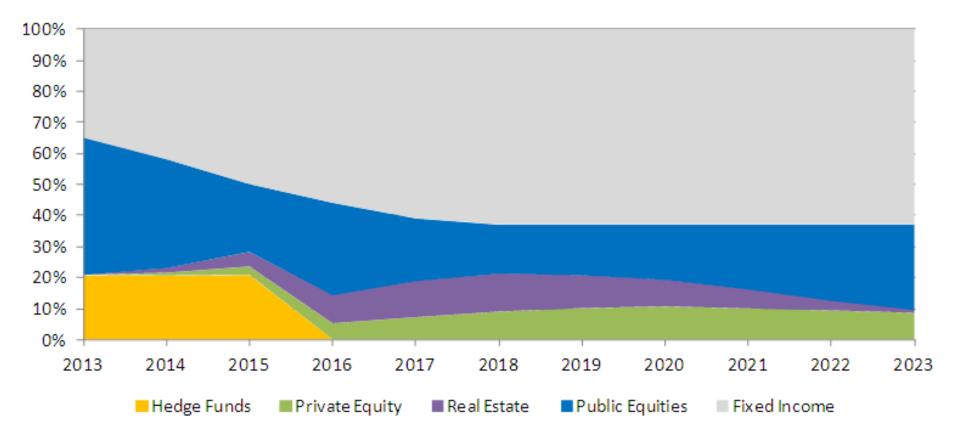
What's an Asset Class? Correlation of Rolling 10-Year Returns With Public Equity





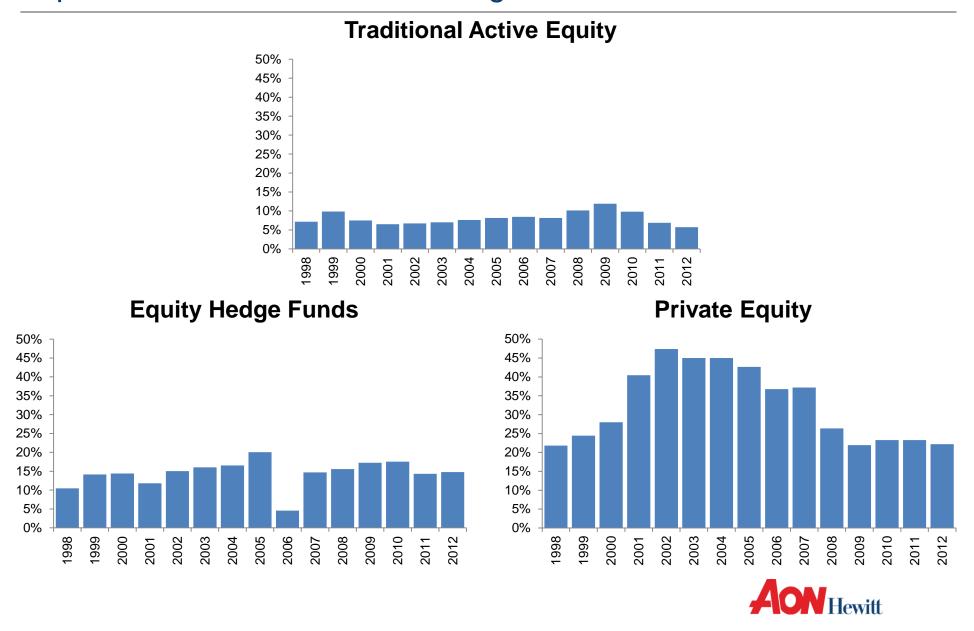
How Much Tolerance Does Your Plan have for Illiquidity?

Scenario: Central - Private DB





Dispersion: Top Minus Bottom Quartile Rolling 10-Year Returns



Suitability for alternative Investments: Five Key Areas





Suitability: Risk Tolerance

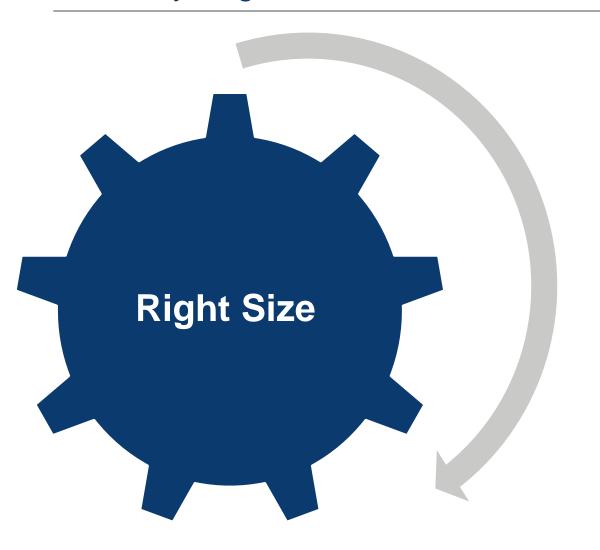


- Active risk is "uncompensated"
- Shift from market to active risk

 Ambiguity about returns and good benchmarks



Suitability: Right Size

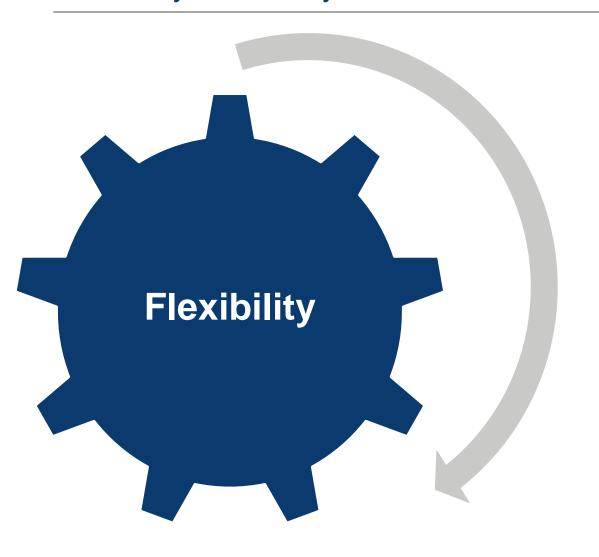


 Ability to adequately diversify without buying the market

 In this framework, allocations depend on total equity and fixed income targets



Suitability: Flexibility



- Ability to act quickly
- Ability to invest in headline risk-prone assets
- Tolerance for high cost and bad performance



Suitability: Access



- Willingness to significantly commit to these assets and build larger positions over multiple years
- Special considerations for public funds
- Supply of best opportunities changes over time



Suitability: Skill

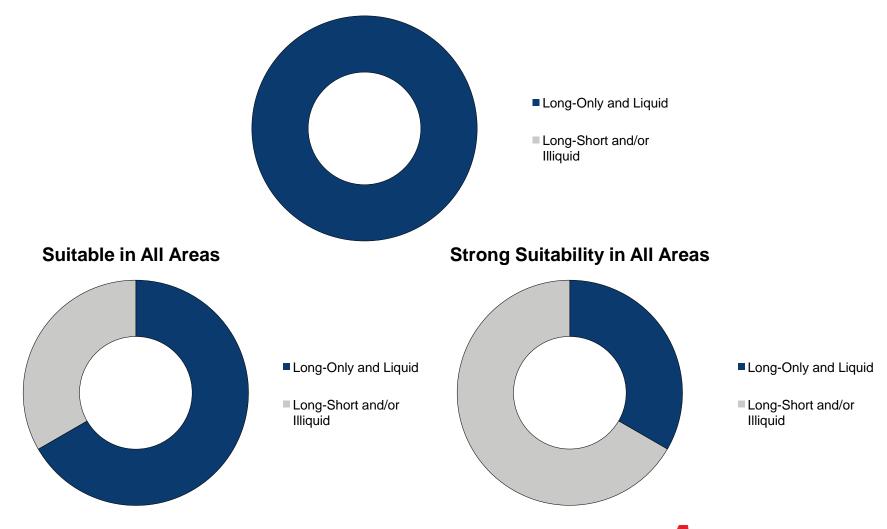


- Beliefs
- Resources
- Experience
- Process
- Objectivity and Un-emotion
- Risk acceptance
- Commitment



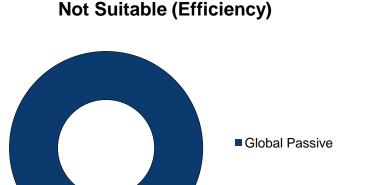
Asset Class Allocation Guidelines for Different Suitability Levels

Not Suitable in One or More Areas





The New Equity Portfolio in Four Flavours

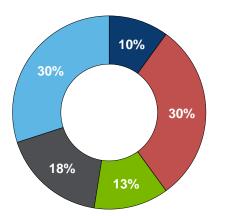


Strong Suitability: High Conviction Active

■ Global Passive

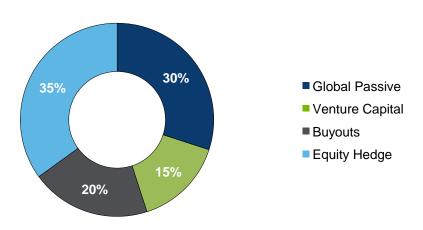
■ Venture Capital

■ Buyouts ■ Equity Hedge

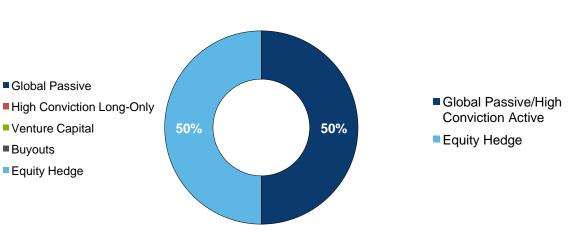


100%



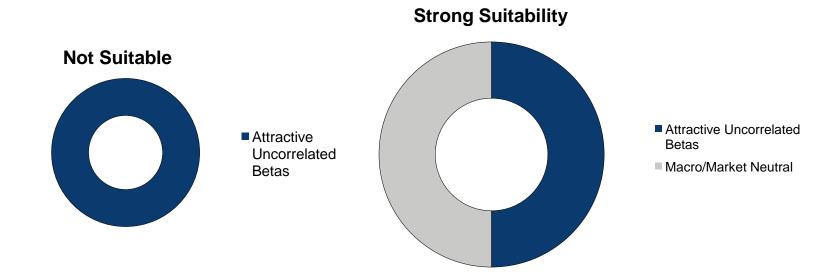


Strong Suitability: Short Time Horizon





The New Opportunity Allocation





Key Takeaways

- Consider whether you are positioned to take advantage of alts?
- Consider incorporating alts into broader asset class mandates
- Evaluate your liquidity "bookends" to determine where your tolerances fall. How does your existing/prospective illiquid component fit?
- Consider broadening your Real Asset allocation particularly in the areas of currently attractive opportunities



Real Estate



Benefits

The benefits of adding Real Estate to a mixed asset portfolio include:

Diversification	High income yield	Potential for inflation protection	Attractive risk-adjusted return
Due to low correlation with other asset classes	Due to strong, predictable cash flow from core operating assets	From both expected and unexpected inflation	Potential for portfolio alpha when used opportunistically

Compared to other asset classes, real estate has provided some of the highest returns, with a much lower level of risk (see table below)

(March 31, 2014)	1-Year	3-Year	5-Year	10-Year
Canadian Private Real Estate	8.2%	12.8%	9.6%	11.6%
US Private Real Estate (hedged)	11.4%	12.1%	5.4%	8.6%
Public Real Estate (hedged)	11.4%	12.1%	5.4%	8.6%
Global Equities (hedged)	35.6%	14.6%	12.2%	5.5%
Global Bonds (hedged)	3.9%	4.7%	0.8%	2.4%



Real Estate – Property Types

- The term Real Estate commonly refers to various investments in income producing commercial properties
- Institutional quality real estate refers to the subset of higher quality properties in medium to large markets, and largely focuses on the following property types:

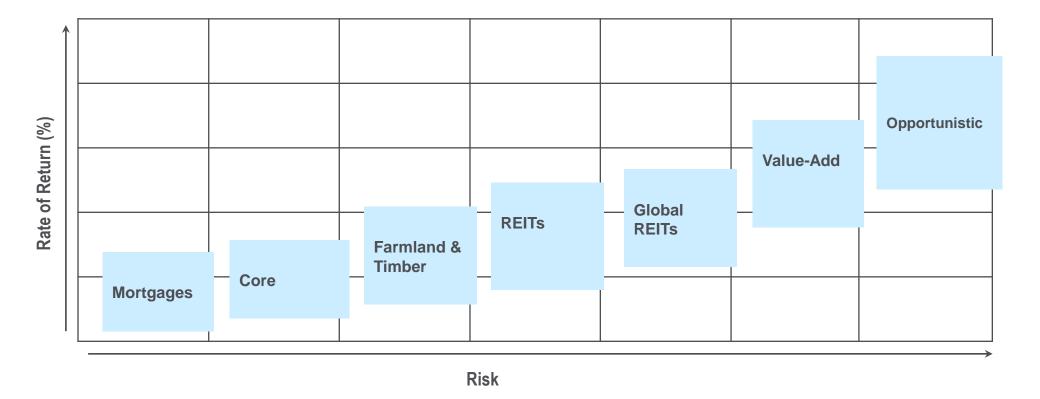
Office	Retail	Apartment (Rental multi-family)	Industrial
Follows economic cycle and is correlated with job growth	Tied to consumer spending and sentiment	Moves in line with economic growth and household expansion	Follows health of local and global trade patterns
Low-rise, mid-rise, or high-rise, "trophy" assets, suburban vs CBD (Central Business District), infill, Green, etc.	Grocery-anchored shopping centers, "big box" retail centers, and regional malls	Categorized by style: garden, mid-rise, and high-rise	Comprised of sub-types such as Flex (blend of office and work space), R&D (Research and Development), manufacturing, and bulk distribution centers or warehouses

- Niche properties can also be found in institutional portfolios
 - Hotels, senior housing, student housing, self storage, medical office, land
 - Timber, Farmland



Real Estate Risk/Return Spectrum

 The full risk/return spectrum for real estate and tangential real estate sub-asset classes is meant as a reference guide in helping to optimize portfolio allocations





Infrastructure



What is Infrastructure?

- Long-life, hard assets serving the backbone of the provision of services in the global ecosystem
- Examples are electricity networks, airports, seaports, roads and rail
- Why is infrastructure attractive:
 - Lower risk Assets
 - Essential services;
 - Strong market position with high barriers to entry;
 - Sustainable, long term cash flows, underpinned by regulation or long-term contracts;
 - 2. Potential for inflation-linked revenues;
 - 3. Low correlation to other asset classes;
 - 4. Long duration







Infrastructure – Definition and Types

- The term Infrastructure commonly refers to various investments in income producing assets that have the following characteristics:
 - Hard Assets
 - Long-Lived
 - serving the backbone of the provision of services
 - Secured by long-term contracts or with significant barriers to entry
 - Offering some correlation to inflation

Essential services

- Daily usage, high volume
- Large customer base households, businesses, passengers, drivers
- Low risk of technological obsolescence
- Community focus

High barriers to entry

- Long life, high value physical assets
- Significant capital requirements for competitor development
- Long term contracts/ concessions
- Often a natural monopoly
- Planning and approval requirements

Predictable cashflows

- Concession arrangements
- Long term contracts
- Captive market
- Pricing power, inelastic demand
- Generally low on-going capex
- Low operating costs
- Prices and revenues often set by regulation

Inflation linkage / Correlation

- Cash flows typically exhibit strong inflation linked due to regulation or contracts
- Low correlation to other asset classes



Sector of Infrastructure





Transportation

- Toll roads
- Bridges
- Tunnels
- Airports
- Ports
- Rail and mass transit networks



Social infrastructure

- Education facilities
- Healthcare facilities
- Courts, police stations and prisons





Energy and Utilities

- Oil and gas pipelines
- Regulated electricity assets
- Transmission and distribution assets
- Water distribution and treatment
- Renewables



Communications

- Cable networks
- Communication towers
- Select satellite systems



Benefits

- In portfolio management, there is one free lunch, DIVERSIFICATION. It allows a plan to lower the its risk and move towards the efficient frontier
- Infrastructure behaves differently than stock, bond or real estate
 - Infrastructure returns are driven by factors different from those that drive stocks and bonds, such as demographic trends, government payments or regulated returns
 - Private equity Infrastructure returns tend to move in different directions at different times as compared to stock or bond returns
- The benefits of adding Infrastructure to a mixed asset portfolio include:

Diversification	High income yield	Potential for inflation protection	Attractive risk-adjusted return
Due to low correlation with other asset classes	Due to strong, predictable cash flow from core operating assets	From both expected and unexpected inflation	Potential for portfolio alpha when used opportunistically



Investment Strategies

Broad array of infrastructure investment strategies

