

Real assets in institutional portfolios

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1. What are real assets?

What are real assets?

Definition of Real Assets

- Physical assets as opposed to financial assets (traditional assets)
- They have tangible value
- Generate relatively steady cash flows

Characteristics of Real Assets

- Storage of value
- Inflation protection: stronger correlation to inflation than traditional investments
- Low correlation to traditional assets
- Cash-flow generating focus: except commodities they have stable cash-flows due to inelastic demand (necessities)



Types of real assets

	Types of Real Assets					
By Liquidity	By Asset	By Stage of Development				
 Illiquid (private): Direct Real Estate Direct Infrastructure Direct Commodities Liquid(Public): REITs, Infrastructure securities TIPS (real bonds) Senior Loans Commodity equity Commodity futures MLPs 	 Natural Resources: Energy: oil, gas, Renewables: solar, wind and hydro Mining and precious metals Agriculture: crops, vineyards, fruit trees Timber: hardwood, soft wood, biomass Real Estate: Commercial Residential Infrastructure: Toll roads Water treatment Tunnels Bridges Stadiums 	 Development: Aggressive risk profile Appreciation focused Highest leverage Mature: Moderate risk profile Income and appreciation focused Medium leverage Regulated: More conservative risk profile Income and inflation sensitive focused Lower leverage 				



Types of real assets

Real Assets by Function in a Portfolio														
Enhance Risk Return	Inflation Hedge	Inflation Shock Hedge	Traditional Assets Diversification	Stable Income	Growth									
REITsInfrastructure equitiesMLPsDirect real assets	• TIPs	• Commodities	 Commodities Precious metals Direct real estate Direct infrastructure 	 Income focus real estate, infrastructure and natural resources 	 Opportunistic focus real estate, infrastructure and natural resources 									



Main risk factors of real assets

Income Real Assets													
-	+	+	+	-	-	-							
Economic growth	3		Duration	Specific/Devel opment	Leverage	Illiquidity							
+	-	-	-	+	+	+							
Growth Real Assets													

Risk management skills

Specialized Inves	tment Capabilities								
Illiquid real assets:	Liquid real assets:								
 Due Diligence of specific investments Project specific risk: Relationships with skilled local partners to manage operational risk Financial risk: may require large pools of capital Scale to diversify across major subcategories and regions Strategic asset allocation and liability matching should take into account illiquidity Regulatory constraints 	 Contango management: Future prices above spot prices imply negative roll yield if you are long. Duration management: Short term affected by duration, longer term higher rates could affect positively as could bring higher income. 								





2. Why real assets?

Benefits to portfolio construction

- To traditional assets
- To real asset **sub asset classes**
- In different economic environments, but not necessarily in the short term (gold for example)
- Potentially improve risk adjusted returns: hybrid characteristics, bond like risk with equity return potential (Efficient frontier builders)

 Specially in the case of direct real assets • Less subject to speculation Softer impact of macro trends on real

assets due to the LT contractual **nature** of the underlying revenue streams

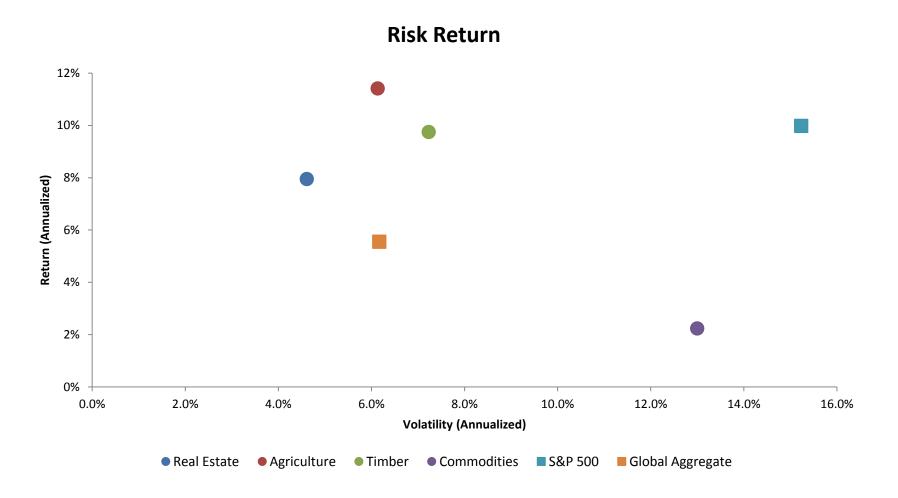


Diversification

Lower

volatility

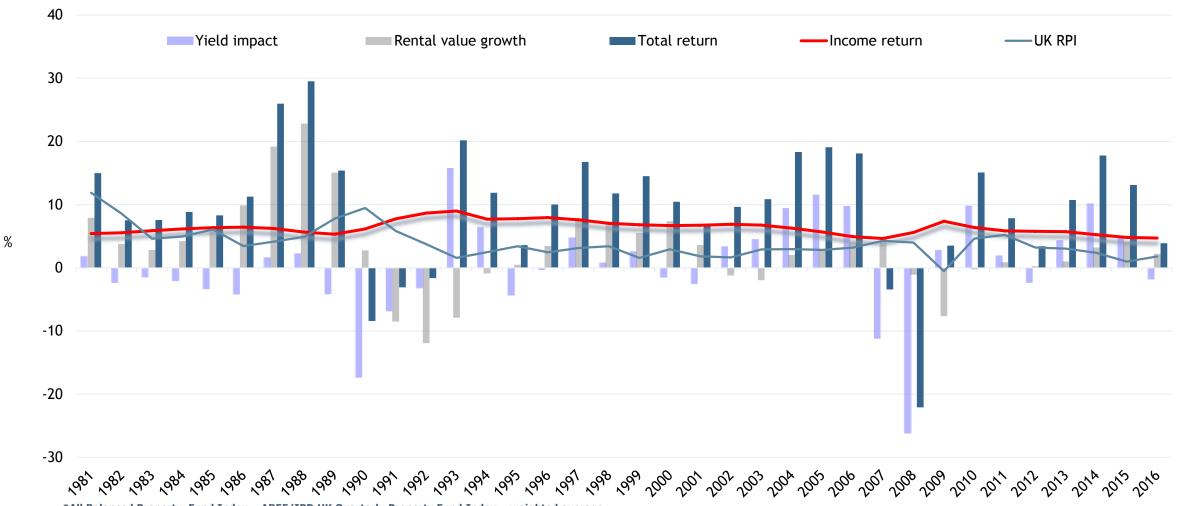
High risk adjusted returns



Source: PRCG Portfolio Clarity, MPI. Period: Mar 1991 – June 2017. Real Estate: NCREIF Property Index, Agriculture: NCREIF Farmland Index, Timber: NCREIF Timber Index, Commodities: CCI Index, Global Agg: Barclays Global Aggregate Index.



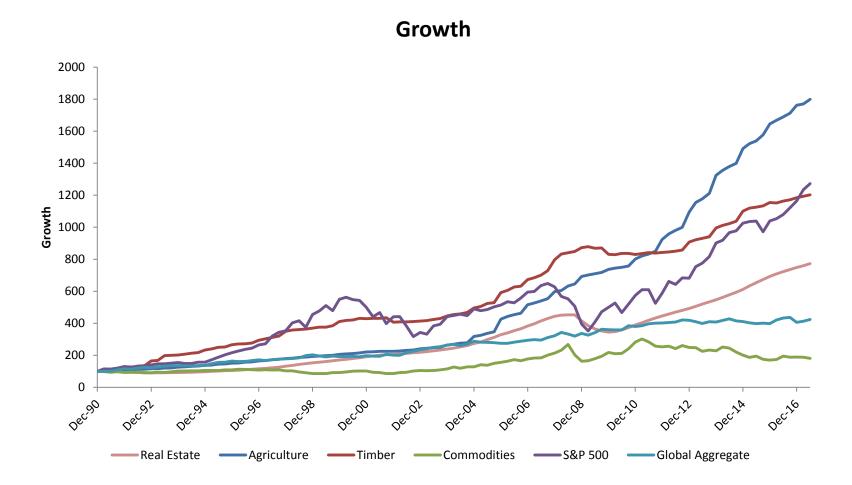
Stable cash flows ... lets look at real estate







Low correlation to both traditional and real assets

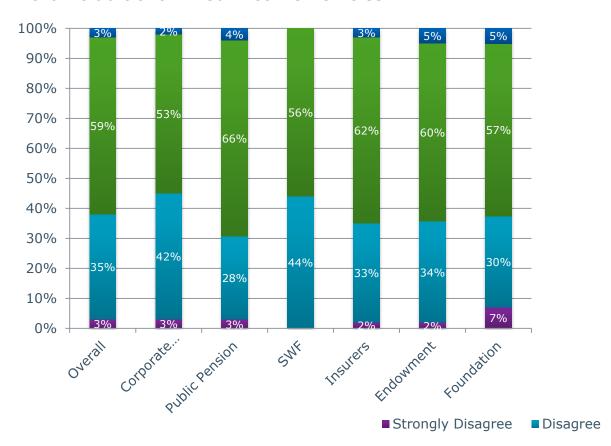


Source: PRCG Portfolio Clarity, MPI. Period: Mar 1991 – June 2017. Real Estate: NCREIF Property Index, Agriculture: NCREIF Farmland Index, Timber: NCREIF Timber Index, Commodities: CCI Index, Global Agg: Barclays Global Aggregate Index.

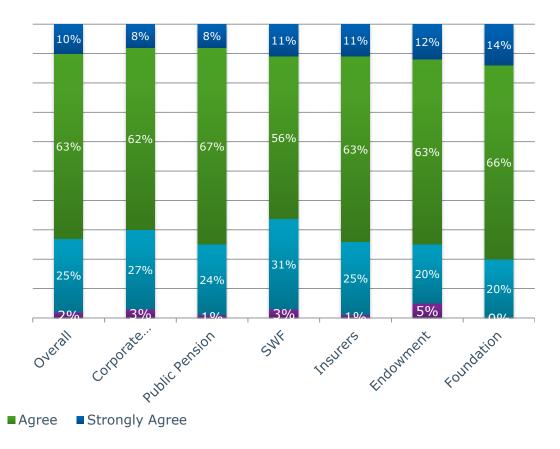


Private debt markets

"Private debt provides better diversification than traditional fixed-income vehicles."



"Private debt provides higher risk-adjusted returns than traditional fixed-income vehicles."

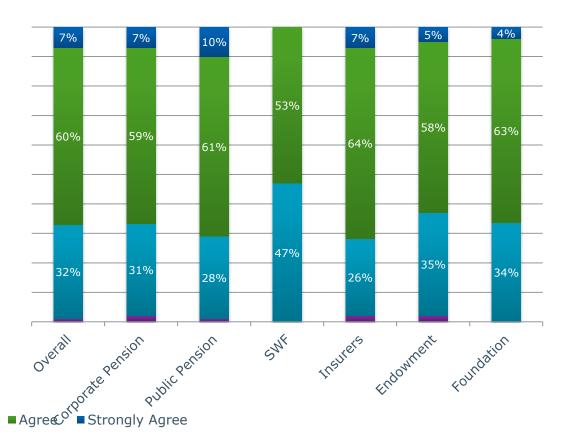


Private equity markets

"Private equity provides better diversification than traditional asset classes."

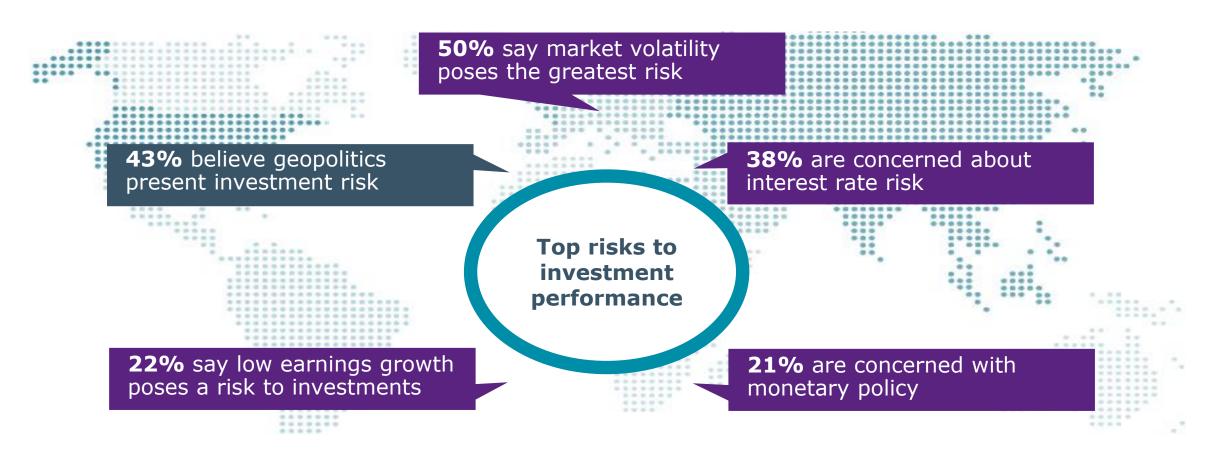


"Private equity provides higher risk-adjusted returns than traditional asset classes."





Institutions foresee a world of risk in 2017



Faced with prospects of increased volatility, six in ten institutions believe they are prepared to handle the risks in 2017, but given the economic complexities, coupled with ongoing political upheaval, only 2% offer up strong convictions in their ability to succeed in this critical endeavor.



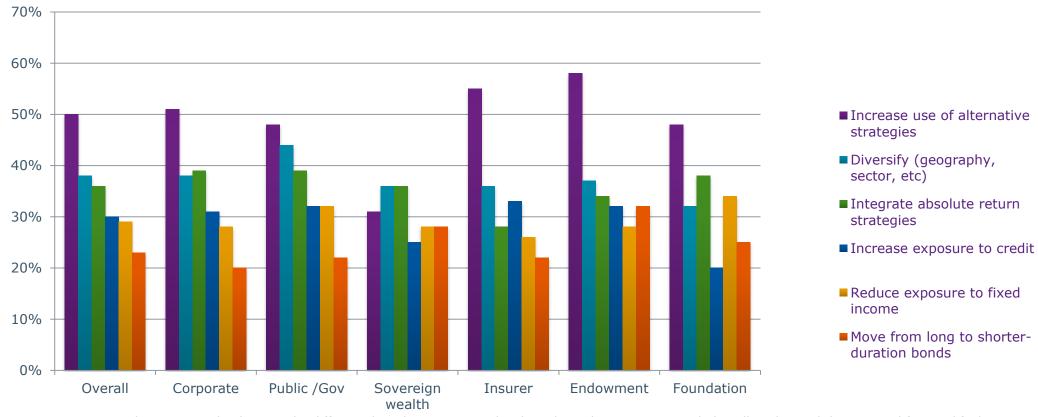
An option to current low yield environment?

Current environment Real Assets Lower expected return of traditional assets Institutional Investor Source of higher yield in a low yielding environment Income Diversification to Commodities are closer to traditional assets the recovery phase High risk return profile Population rise from Have longer investment poverty requires horizons. investments in real assets



Alternatives critical to addressing low yields

"How are you positioning your portfolio given the low yield environment?"

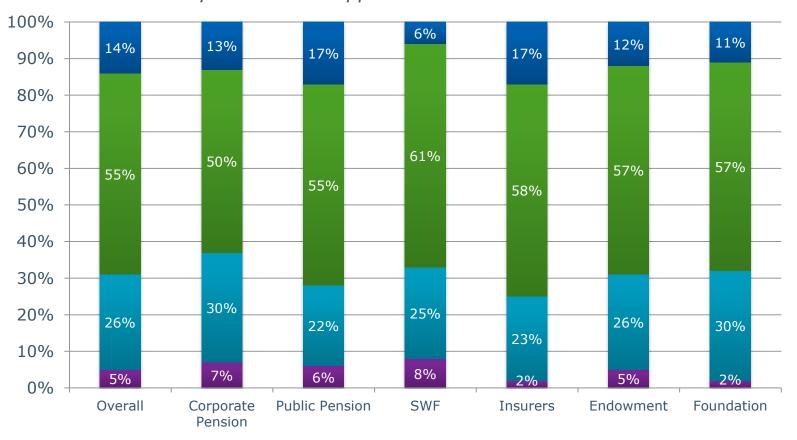


Alternative investments involve unique risks that may be different than those associated with traditional investments, including illiquidity and the potential for amplified losses or gains. Investors should fully understand the risks associated with any investment prior to investing.



Traditional strategies may no longer be enough

"Institutional investors need to replace traditional diversification and portfolio construction techniques with new approaches to achieve results."



Given the challenges of today's market, the mechanics of managing institutional portfolios goes well beyond traditional asset allocation considerations.

■ Strongly Agree

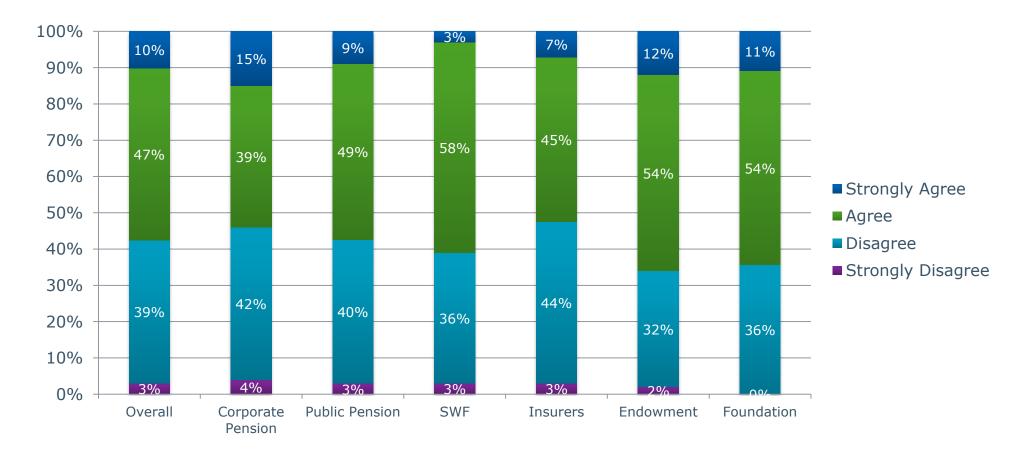
Agree

Disagree

■ Strongly Disagree

Traditional assets are too highly correlated

"Traditional assets are too highly correlated to provide distinctive sources of return."

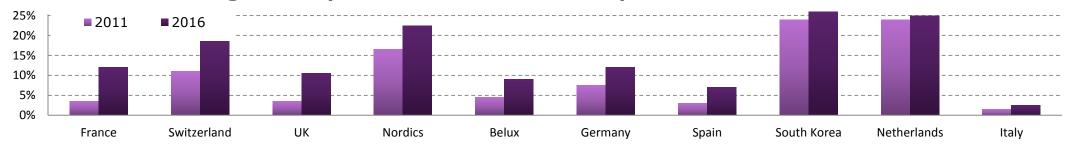




A clear trend to illiquid assets worldwide

Increase of illiquid assets (real estate, loans, PE & infra)

Weight of illiquid assets in life insurance portfolios from 2001 to 2016



Percentage increase of illiquid assets in life insurance portfolios from 2001 to 2016



Source: NGAM (2017). Portfolios of Life Insurers observed in France, Germany, UK, Italy, Nordics, Belux, Switzerland, Spain, Netherlands, South Korea.



Change in allocation by asset classes

	Fra	nce	Sw	itz.	Ве	Belux		Germ.		UK		Nordics		Spain		Italy		South Korea		ther.
FI Direct Lines (Govies & IG Corporates)	-6		-8		-4		-10		-5		-5		-8		-4.5		3		-1	
Equities	0	-10	0	-9.5	-3	-9	3.5	-8	0	-8	-1	-7	2	-5	2	-2.5	-2	-1.5	-1	-1
Liquidities	-4		-1.5		-2		-1.5		-3		-1		1		0		-2.5		1	
Real Estate (Mainly Direct Invest.)	4		5		1		1.5		4		2		1		0		1		-1	
Loans (CRE, Corporates, Infra.)	2.5		1.5		3		2		2		0		2		0.5		-1		2	
Other Equities (Private Equity, Infra.)	2	10	1	9.5	0.5	9	1	8	1	8	4	7	1	5	0.5	2.5	2	1.5	0	1
Other Fixed-Income (HY & EMD funds)	1.5		1		2.5		2.5		1.5		0		1		1		0.5		0	
Other Alternative (Hedge Funds, Liquid)	0		1		2		1		-0.5		1		0		0.5		-1		0	

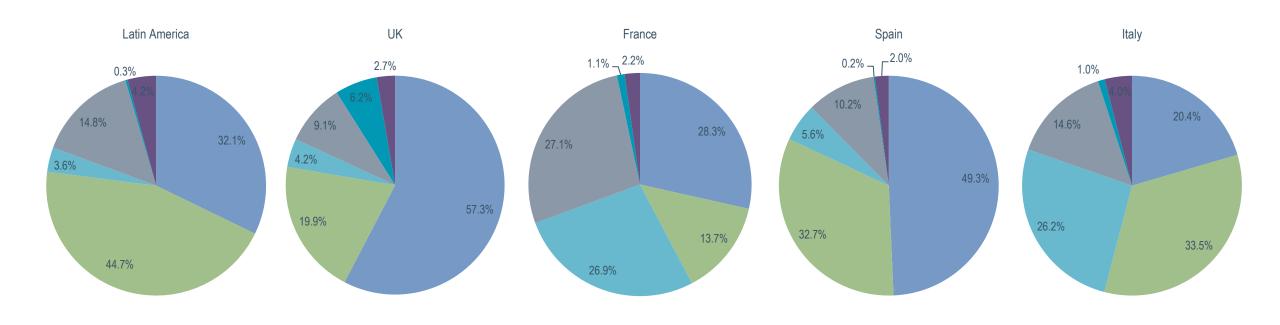
Source: NGAM (2017). Portfolios of Life Insurers observed in France, Germany, UK, Italy, Nordics, Belux, Switzerland, Spain, Netherlands, South Korea.





3. What might be discouraging investors?

Exposure to real assets in wholesale portfolios



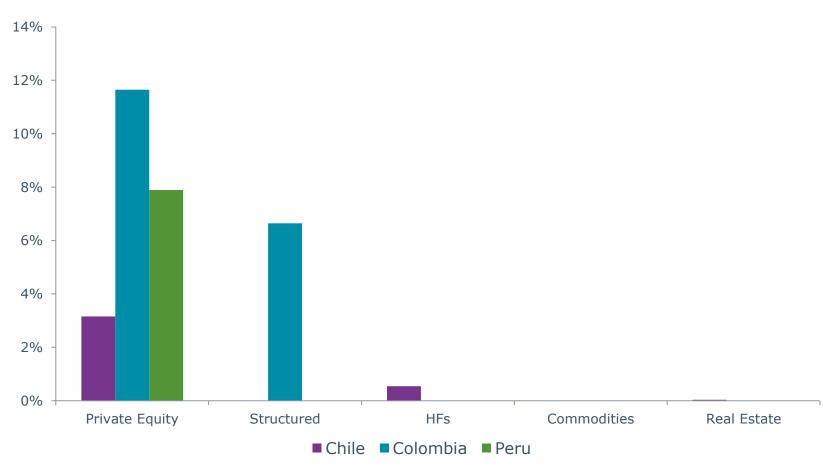
■ Equity ■ Fixed Income ■ Allocation ■ Alternative ■ Real Assets ■ Money Market

Data shows the Moderate portfolios received by PRCG over the last 12 months as of 30th June 2017. Spain includes portfolios received in the last 12 months as of 31st Mar 2017. Spain includes 36 Moderate portfolios based on Vdos data, UK includes 253 Moderate portfolios, France includes 119 Moderate portfolios, Italy includes 55 Moderate portfolios and Latin America 19 Moderate portfolios.



Exposure to international real assets in pension funds



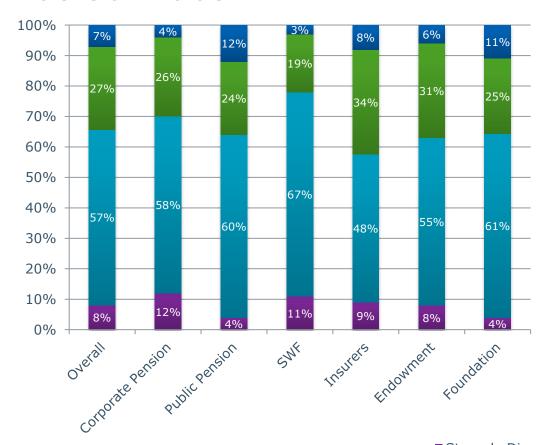


Source: FundPro, Mar2017.

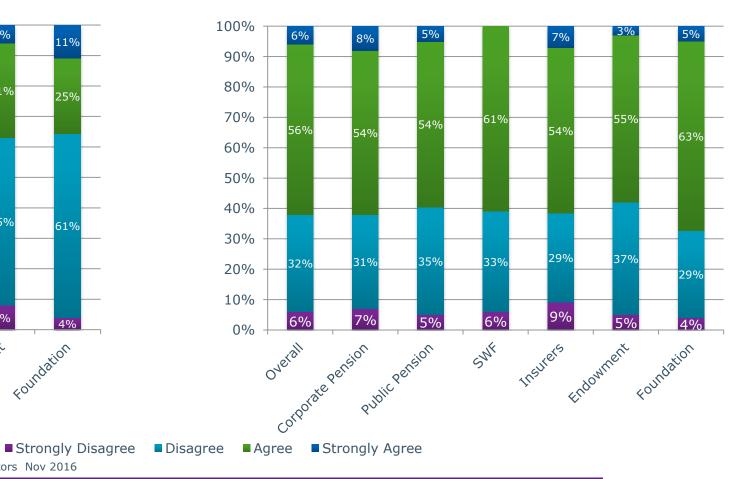


Liquidity is a barrier to investing in real assets

"I am looking to increase allocation to real assets (real estate, infrastructure, aircraft financing) over the next 12 months."



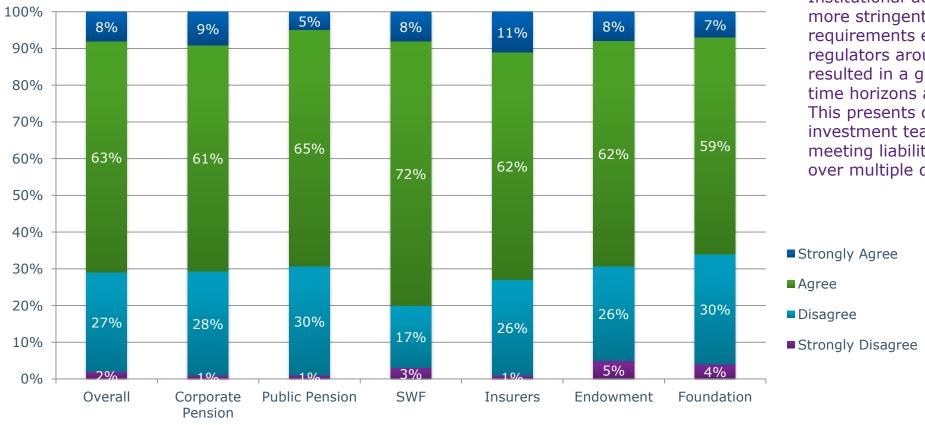
"Illiquidity is a barrier to investing in real assets."





More liquidity required by regulations

"Solvency/liquidity requirements creates too much bias for shorter time horizons and highly liquid assets"

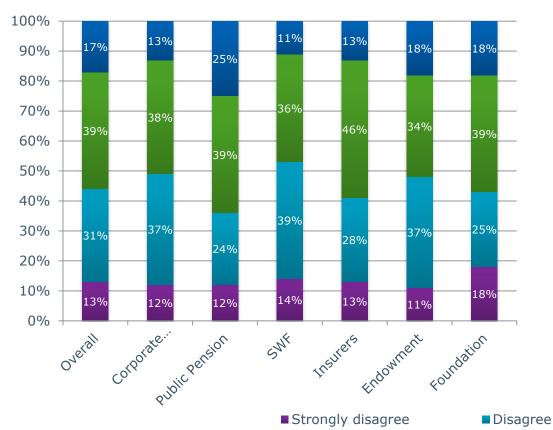


Institutional decision makers believe more stringent solvency and liquidity requirements established by regulators around the world have resulted in a greater bias for shorter time horizons and more liquid assets. This presents challenges for investment teams that must prioritize meeting liabilities that stretch out over multiple decades.

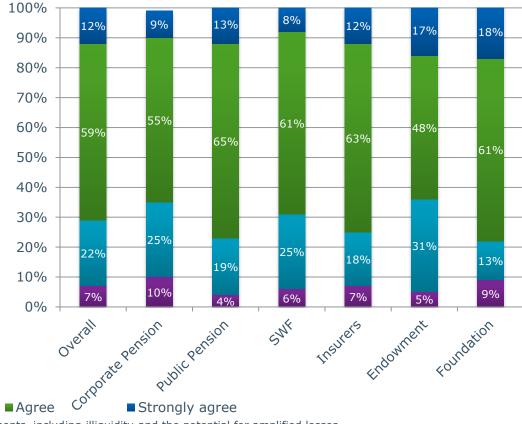


But liquidity is becoming less of a barrier

"My organization is embracing illiquid assets more than three years ago."



"The potential returns of illiquid alternatives make them worth the risk."

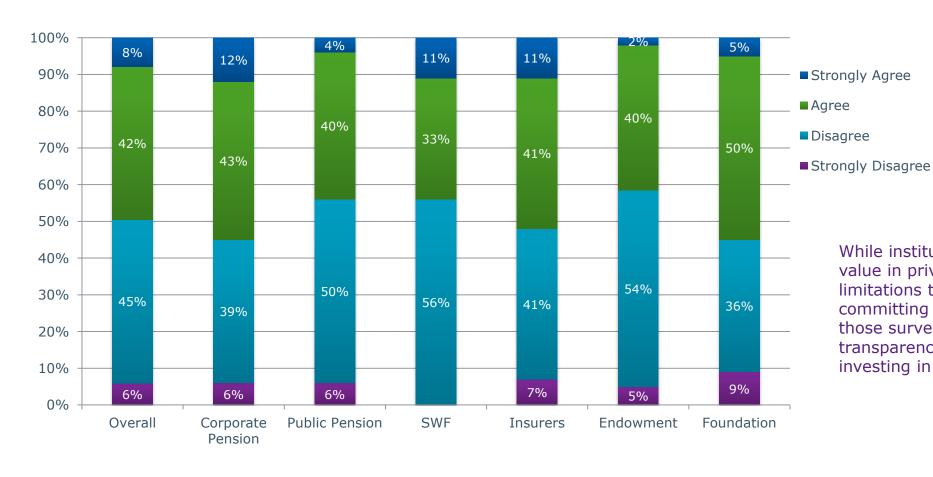


Alternative investments involve unique risks that may be different than those associated with traditional investments, including illiquidity and the potential for amplified losses or gains. Investors should fully understand the risks associated with any investment prior to investing.



Transparency is an important factor

"The lack of transparency discourages me from making investments in private equity."

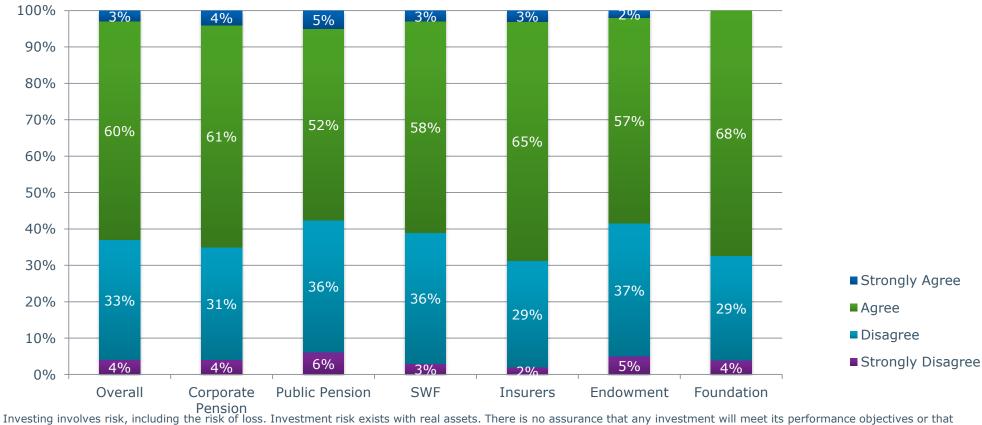


While institutions see significant value in private markets, there are limitations that may keep them from committing more assets. Half of those surveyed say a lack of transparency keeps them from investing in private equity.



Earning higher returns the main motivation?

"My primary motivation for investing in real assets is earning higher returns."

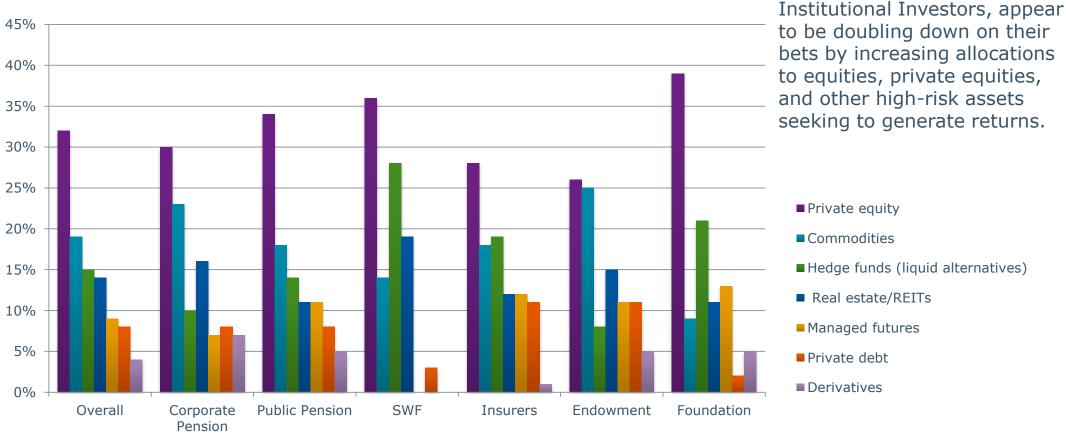


losses will be avoided.



The risk-on risk-off trade driving allocations?

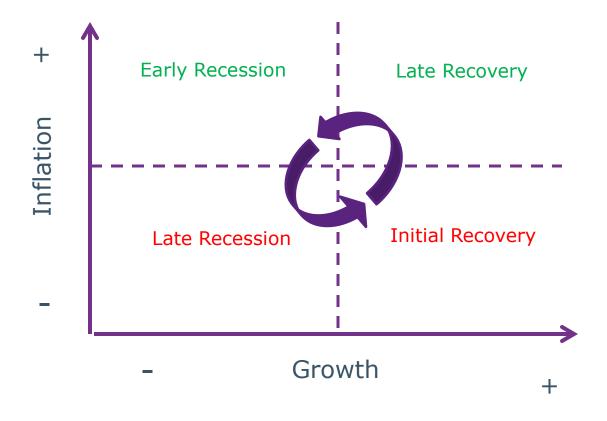
"For each of the following alternatives, please indicate which you expect will deliver the biggest gains in 2017."



Alternative investments involve unique risks that may be different than those associated with traditional investments, including illiquidity and the potential for amplified losses or gains. Investors should fully understand the risks associated with any investment prior to investing.



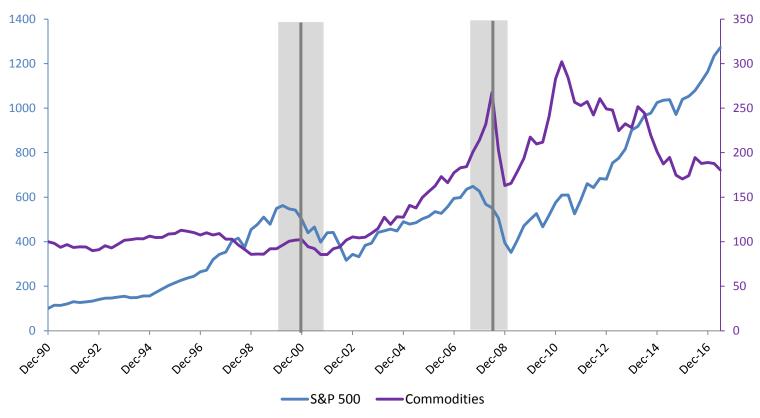
But performance may depend on the economic cycle



Outperformance of commodities vs equities will depend on the economic cycle. Optimization of portfolios are dynamic.

But performance may depend on the economic cycle





Source: PRCG Portfolio Clarity, MPI. Period: Mar 1991 - June 2017. Commodities: CCI Index.



Other discouraging factors

- 2008 crisis:
 - Most investors invested in real estate before the credit crunch.
 - Need for maximum transparency after 2008
- Rates falling since 1981: why investing in more complicated asset class?
- Inflation hedge is not perfect in the short term
- Diversification benefits can be achieved with small allocations
- They are **off-benchmark bets** in some cases
- Specialized investment capabilities







4. Appendix

The Durable Portfolio Construction® Research Center

- Launched in 2010 to examine investor attitudes and behaviors related to risk
- Surveys of Individual Investors, Financial Advisors, and Institutional Investors, Retirement Plan **Participants, Insurance CFOs and the Global Retirement Index**
 - 50,000+ survey respondents over seven years
 - 31 countries: Asia, Europe, MENA, North America, South America, Australia
 - 22 primary research studies, three index reports
- Massachusetts Institute of Technology partnership integrating big data and behavioral finance
 - What is an Index?, Dr. Andrew Lo
 - Journal of Portfolio Management 2016 Paper of the Year



The data behind the discussion

Global Survey of Institutional Investors



Natixis Global Asset Management, Global Survey of Institutional investors compiled by CoreData Research, October-November 2016. Survey included 500 institutional decision-makers in 31 countries.



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Additional notes

Natixis Global Asset Management, Global Survey of Institutional Investors conducted by CoreData Research, October-November 2016. Survey included 500 institutional investors in 31 countries.

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