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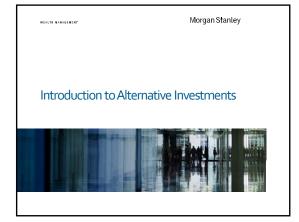
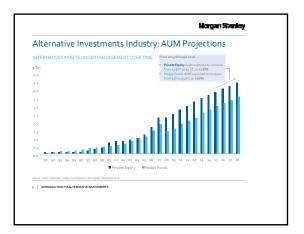
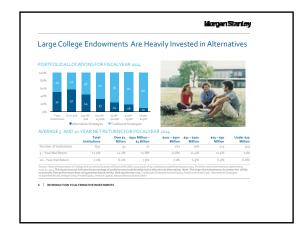


Table	of Contents	
Con	sider a Different Way to Diversify Your Portfolio	3
. Hed	ge Funds	8
I. Fun	d of Hedge Funds	14
V. Man	aged Futures	17
. Priv	ate Equity	22
1. Real	Estate	28
II. Excl	hange Funds	33
III. App	endix	35
	KTION TO ALTERNATIVE INVESTMENTS	



Fraditional Investments Alternative investments describe a spectrum of stra income and equity markets	itegies that cannot be accessed through traditional fixed
These strategies have the potential to help lower vo	latility and increase diversification in clients' portfolios
Alternative Investments	Traditional Investments
Absolute performance objective ³	Relative performance objective ^a
May use leverage	Limited or no leverage
Performance dependent primarily on alternative investment manager skill	Performance generally dependent primarily on market returns
Historically low to moderate correlation with market indices	Historically high correlation with market indices
Typically have reduced liquidity ranging from monthly to 12+ year lock-ups	Typically offers daily liquidity
Generally higher fees which may include performance fees ²	No performance fees but may include fixed management fees for professional management
There is no guarantee that these objectives will be met. Generally includes fees such as management and performance fees for professional	



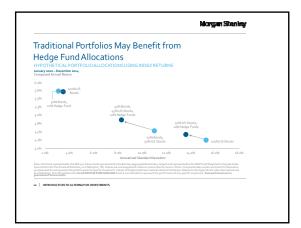






What Is a Hedge Fund?	Contraction of the local division of the loc
 A hedge fund is an alternative investment strategy that is designed volatility, increase diversification and provide the potential for enh 	
 They consist of investments in both domestic and international ma sophisticated trading strategies, using leverage and derivative inst generate alpha- 	
 A manager's ability to generate alpha is primarily based on its inves leverage, short-selling, derivatives, and Illiquid securities 	tment strategy often utilizing:
 These tools, strategies and securities are used by hedge fund mana enhancing returns and reducing risks, however they also increase to 	
 Hedge funds are not new – they have been in existence for over 50 	years
 Typically, hedge funds seek an absolute return³ 	
- Unlike traditional vehicles, which manage to a relative benchmark	
 Primarily invest in publicly-traded securities 	
 Stocks / bonds / commodities / currencies 	
 When considering including hedge funds as a partitional an investor's several portfolia, it is important that an investor considering handwise interaction with these potentially speculative and liquid investments, and that investors have the financial tophistications be able to understand and sessme such risks. Hardwidd Sylliad Jackbe menogeneous perspective to in investor. 	
a INTRODUCTION TO ALTERNATIVE INVESTMENTS	

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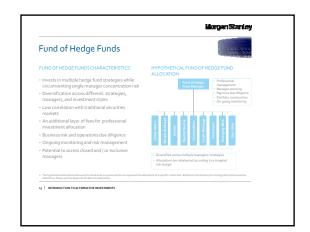






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100 1000 0000	6.81%	Value as price	Grant Company	Healge Healg Aug01 Aug0	1 D 1 P	Partie	Conventil-de	Indexed Converge
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	Convertible	Convertible Gen (Contex (s.BEN)	Daterial Materia	Martin Martin	Maters	HE LAND	GerryCosts	Materia Materia
AND DECEMBER 110			he strategy that	delivered the best	performance	for that y	ear. The oth	ier
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egies are shown in de	scending orde	er of performance r	esults.					
	scending orde	er of performance r ce does not guarantee fu spresent the performance	esults. ature results. Indexes a of a specific investmen	st. Asset allocation does i	not assure a profit		sinst loss in decli	ping
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WEALTH	MANAQEMENT	Mc	organ Stanley
Fu	nd of Hedge Fui	nds	
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. 34 89	+5.97×A +2.13×A	564.23	900,000
45	+6.43% 🔺	765.90	600,00

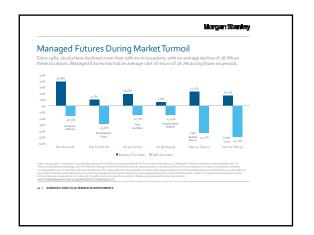


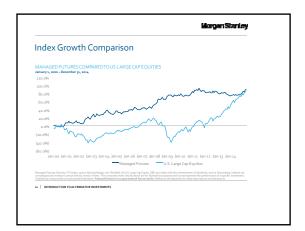
Hedge funds offer many appealing the same time, there are certain at equire careful consideration and a conducted by highly skilled profess esearch process.	tributes of hedge funds that ssessment that should be	Fund of hedge fund manageri are uniquely specialized and resourced to evaluate and select quality hedge funds for the puppise of contructing a particulation of hedge fund stategies. See the balow table for cattain hedge fund characteristics and considerations.			
Hedge Fund Characteristic	Consideration				
Investment flexibility	Hedge findsallow for the use of trading strategies such as thot selling, options and other derivative instruments, as well as hielging tachniques and use of leverage, which, while potentially increases investment returns, can be highly volatifie and increase an investor's risk of investment bes. Significant investment expertise and experience is often required to perform a meaningful fund evaluation.				
Ability to be opportunistic in changing market environments	Hedge fund managers can exercise t to evaluate and forecast investment	heir judgment without most traditional constraints, making it challenging risk.			
intended to generate alpha or	Alpha identification is difficult due to:				
excess return delivered by an investment manager	Complexity of trading strategies				
	Reduced transparency				
	Valuation challenges				
	Changing strategies and changing conditions				
Evolution arrest	Hedge funds often have high investr	nent minimums and at times may be inaccessible due to limited capacity.			



traded may inclu	de, but are not limited to	, the following:1		
STOCK INDEXES ARC TTEA ADDANE OCCUP Devy1 TTEX IND Devy1 TEX IND DEVD TOTOXISE DEVD TO	NELECTRATES Antransis Mail Bandon Antransis Mail Bandon Anton Long Git Birth Strattgrang Casalan Generation Galantin Generation Bandon Bandon Hang Bandon Hang Bandon Hang Bandon Hang Bandon Hang Bandon Uri Tanang Bandon Uri Tanang Bandon Uri Tanang Bandon	CONTENCIONNEC Control and other Executions of other Executions Execut	NETAAS Alarman Carl Land Natada Natada Salar Dan Dan Dan Dan Dan Dan Dan Dan Dan Dan	ACCESSION ACCESSION

				Managed Futures
Average Annual Return	11.83%	8.16%	9-5796	10.28%
Annualized Standard Deviation	15.1796	5-52%	17.47%	14.49%
Worst Draw Down	-50.95%	-8.99%	-56.40%	-15.66%
Best / Worst 12 Month Return	61.1896/-43.3296	35.2296/-5.1396	103.70%/-49.94%	63.69%/ -7.88%
% Positive 12 Month Periods	80.4496	92.9196	71.64%	81.1796
ures. In the performance table above, average a only versus about the mean and is used to any denote time period. Statistical comparisons on a Statistic (EAS gool ratio), US Bendrij Burding Ag. Torigo T. Chi Mander, Statistical Grand Burding Ag.	resert the valatility or risk. The w 12-month holding period basis ar gregate Bond Index), Internationa (A), Monthly returns for the Barc	orst drawdownis the largest per e based on monthly data from J al Stocks (MSCI EAFE Index)—Pv lay CTA Index reflect the compo	centage loss incurred from the high es musry spilo through December 2014, r/Trac Financial Solutions, LLC (Merro	t value to its lowest value for producing 4.20 observations. hit, TN), Managed Futures commodity trading advisors, toliceCW invest in them.

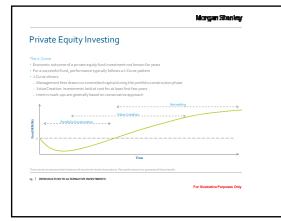






Private Equity Defined	
Private equity can be broadly defined as privately negotiate (most offen) non-public companies where managers are of Long-term investments which see Alow correlation with pu seeking returns in excess of traditional asset classes May provide devinification across various market cycles an May improve the risk-return trade-off	ten active investors blic equity markets
Potential Benefits	Risks
Attractive long-term return potential	Illiquidity
- Potential for exceeding returns of public equity	 Investments are locked up for a significant period of time
Diversification benefits	Imprecise Interim Value Measurement*
- Relatively low correlations with public equity and bonds	 Investments are non-public
 Broad and diverse range of different private equity strategies (buyouts, venture capital, special situations) 	 Quarterly marks imprecise indications of eventual / exit value
- Vintage year diversification+ (commitment drawn over	Costs
time)	- Funds are subject to annual management and
 Strong alignment of interest with investors 	performancefees
Note: These investments are only suitable for long-terminvestors willing to forgoliquidity for one only.	and put capital at rick for an indefinite time. Past performance is no guarantee of rsification is achieved.

Stages of a Company Life Cycle*
- Series dans spally spal
nitize comparises provide Location for your how the Sequence of the Security of the Security of the Security of the Company instruments in a company (N) Macanon Company (N) Macanon Company (N) Macanon Compa
Expline motioners to acquire a control of the second
Subordinated debt or preferred Special Busenets Special
may have warrants or convension features
Distassed (Special Structures
reyality, and distrement funds.



	Morgan Stanley
Accessing Private Equity ^{1,2}	
Primary Fund Investing - Typically based on a 'GP-LP' structure, whereby investors the Invested participants, or CP J commit funds to the private equity fund (the general partners, or CP) - The fund pode these commitments and uses them to invest in underlying assets - Once the investment realized, capital flows in the reverse directionback to the LP's as distributors	Secondary Fund Opportunities imore acquiring direct interests of primary funds from
Fund of Private Equity Funds	Co-investment Opportunities
 Multiple layers of fees 	 Invest alongside GPs in individual deals
 Large footprint allowing diversification across geographies and strategies 	 Typicall y offered to preferred existing LPs in the fund on a no fee, no carry basis
 Advisory Board seats due to bigger investments and good relationships 	 Increasingly prevalent in current market environment where debt financing is difficult to obtain or prohibitively
 Large pool of resources for due diligence 	expensive: GPs are limited by portfolio constraints on single investments in their fund, and have to partner to meet
 Legal and commercial review of terms 	equity requirements
 Monitoring and administrative efficiency 	
Note: Past performance is no guide to future performance and the value of investments and 1. Governance structures at the company level are designed on a case by case basis to be ap- number of seats. 2. Not all fund of funn have the same structure or invest in all of the same types of onisate eo	propriate. Private equity does not use one-size-fits-allapproach to board composition or

	MorganStanley
Understanding Private Equity Returns	
- Generating Return Premiums - Illegid assets acquired at a discount to public / liquid alternatives - Access to more information - Costrol, atoms: alignment between management, and owners - Costrol, value-aided investing - Costrol, value-aided - Costrol, value-	
 Mechanisms forValue Creation Earning Growth-revenue improvement, operating efficiency Multiple Expansion² - "private-to-public arbitrage" De-Leverage – debt pay down 	
 Hourto Mansaure Protects Exploy Returns Linearce Nate of Setterm (RRR) Cash Multiples Cash Multiples Long Obsted Horizon = generally 3 to 5 year hold periods, y to 20 year fund life (possibly lo	
 unitative transitions as an example intervention or a sample foreign and use representers in an employed service on entropy and a sample of a sample	



Real Estate Attributes Potential benefits to Real Estate investing when co raditional investments:	ompared to
Traditional Investments	Real Estate
• No leverage	• Leverage (typically o to 75%)
Historically, high correlation with market indices	Historically, low correlation with market indices
More volatility than real estate, even during periods of out performance	Less volatility compared to equities and fixed income
Financial asset	Physical asset
Highly liquid	Relatively illiquid
Historically vulnerable to inflation	Potential inflation hedge
The state and processors at the transmission of processors and processors of the state of t	where's back Please review and be familiar with the fault suffering materials, including and Appendix for Risk Considerations.

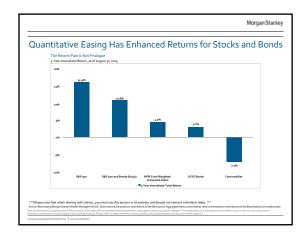


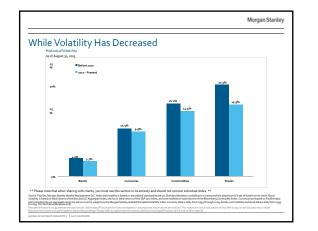
Diversi	fying Wit	h Con	nmercia	l Real Es	tate			
	al real estate ("CRE" -term, real estate m				cally lower co	orrelations with	other	
	ases may provide gr	eater stabilit	v due to cash flow	/ income stream				
 Contractoarie 	ases may provide gr	eacer stabilit	y due to cash how	ry income scream				
	ON OF TOTAL RE	TURNS						
Quarterly, Last 10								
	1.00	(0.28)	0.85	0.49	0.78	0.22	0.45	
Bonds		1.00	(0.29)	(0.23)	(0.05)	(0.18)	(0.20)	
Hedge Funds			1.00	0.68	0.60	0.12	0.46	
Commodities				1.00	0.37	0.26	0.42	
REITS					1.00	0.24	0.39	
Core RE						1.00	0.84	
							1.00	
Opty RE	stments calculations, data fro			pregate Bond Index), Hedg tate Index Series), Core RE				



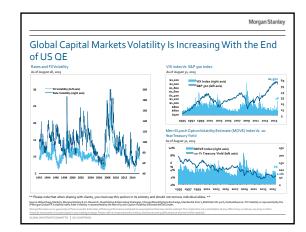


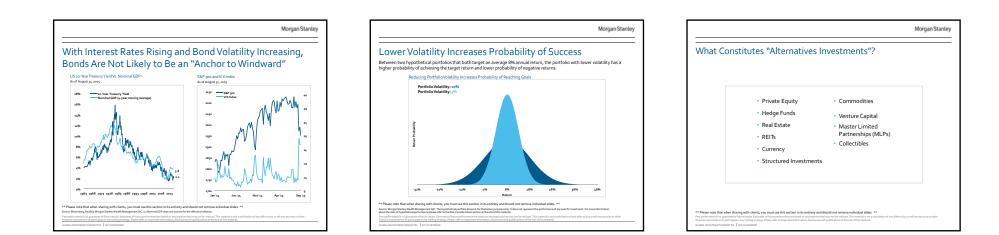




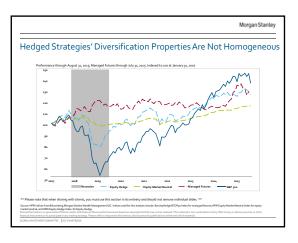


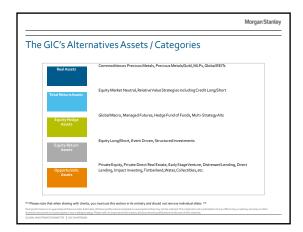


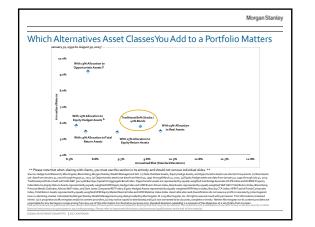


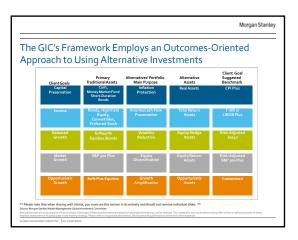


s of August 31, 2015						
Alternative Strategies	Annualized Performance since 1990	Annual Volatility, 25 Year Average	Long Ru Correlation to S&P	n Correlations Correlation to Global Bonds	25-Year Sharpe Ratio	Maximum Drawdown
Equity Long/Short	5.7%	4.6%	0.73	0.26	0.46	-22.9%
Event Driven	11.196	5.7%	0.70	0.11	1.20	-24.8%
Hedge Fund of Funds Composite	7.296	4.796	0.54	0.10	0.68	-22.296
Relative Value	9.6%	3.296	0.51	0.14	1.49	-18.0%
Equity Market Neutral	4.196	3.496	0.03	0.15	0.20	-9.296
Convertible Arbitrage	8.2%	4.0%	0.46	0.22	0.78	-35-396
Global Macro	11.196	6.4%	0.32	0.25	1.07	-10.7%
Distressed Credit	11.2%	5.2%	0.52	0.08	1.23	-27.496
Managed Futures	0.496	7.5%	-0.17	-0.07	-0.34	-20.3%
S&P 500	9.6%	13.2%			0.43	-50.9%
Barclays Capital Global	6.1%	5.2%			0.51	-10.196
Aggregate Bond Index						

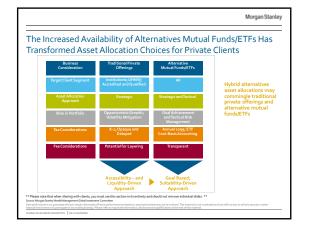


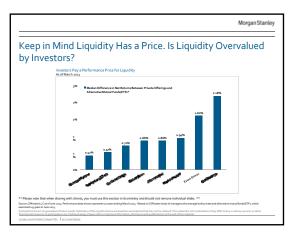




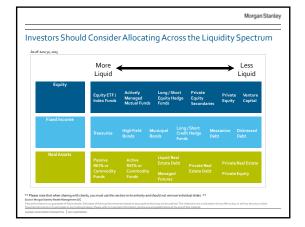


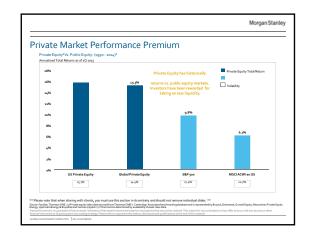
arch 31, 2015				-	netment Olariachein	tha .
(Institute)	Printers Bully of Albertation	New Albertative Asset		-	Correlation with	Catedatian with t
lingth	Investment	Gamptry	Clevel Primary Bonchmark	.04	Adultal Equilities	tro. Grade Rand
Capital . Preservation	Inflation Protection	Real Access	Real Roturn, OTPhie	10.00	a. or	*****
	and a second second second	Contraction of Press and Metallic	Contraction of Contraction	15.0	- 10	
		Precision Metals/Solid		10.8	* 25	0.02
		Manual Limited Partnerships*		18.4	245	
		Wahari BECo			++5	4.44
	Real Balance Columnsons (Line Flor, 1 Month (5) 7 Bill			
Income	Preservation .	Tatal Roturn Aposts	Phys. per hero		a.e	0.000.00
		Equity Warker Nextheri			0.04	0.00
		Relative Value Transport		8.4	e de:	
			Total Batton, Salk Marchil			
Report Location	Volutility Management	Equally Heading Asserts	printments	1.14		0.00 0.05
Parallel Briteri	the second se	Scholar Marine	P. 1999	2.4	0.12	1.24
		Managed Futures		16.0	-6-05	4.04
		manage Funds		8.4	erite.	n. 43
Market Growth	Equity Overalliation	Equity Roturn Assets	SAP (m)	2.00	+2+ +2	
and any dry and	Contract in the second	EarlyLongThat	140 (141	10.5	in the	111
		Event Diver		.19	- 14	4.49
Opportunity						
Scouth .	Scouth anglift, alon	Opportunistic Assets	Mainlate Specific	Addres.	104**	10071
		Avoiata Saulty Provata Direct Real Octube		44.8 10.5	4.89 9.25	



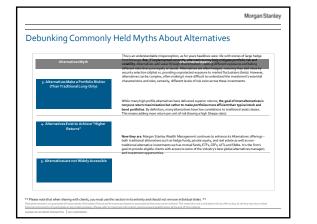


Talent Difference nvestors Pay a Performance Price Performance Comparison: Traditional H	e for Liquidity	/	pact Pe	ertorma	ance Re	alizati	on
ugust 35, 2052 to July 30, 2055 Index/Funds	Number of Funds	3 Year Performance (Overall)	3 Year Performance Difference (Overall)	3 Year Performance (Top 25%)	3 Year Performance Difference (Top 25%)	3 Year Performance (Top sol6)	3 Year Performance Difference (Top 10%)
Morningstar Long/Short Equity	66	7.20		10.16		13.82	
HFRI Equity Hedge Index	734	8.38	1.19	14.29	4.13	20.29	6.47
Morningstar Market Neutral	35	1.40		3-54		4.42	
HFRI Equity Market Neutral Index	59	4.48	3.57	8.96	5.42	12.70	8.18
Aorningstar Multialternative	61	3.91	,	5.11		7-47	
IFRI FOF Composite Index	347	6.27	2.16	8.70	3-59	11.05	3-59
Morningstar Managed Futures	28	2.24	,	6.02		7-47	
IFRI Macro Systematic Diversified Index	164	2.51	0.20	6.41	0.51	10.62	3-15
Aorningstar Multi-Currency	14	-1-35		1.40		2.91	
IFRI Macro Currency Index	25	1.20	2.55	5.09	3.69	6.13	3-23
Average Performance Difference			1.91		3-47		4.94
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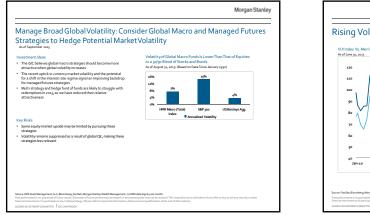


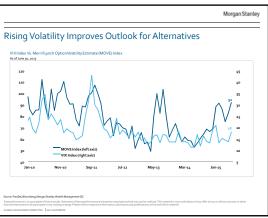


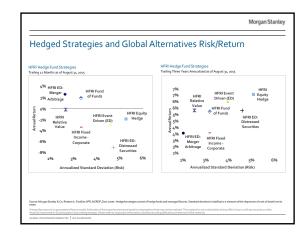


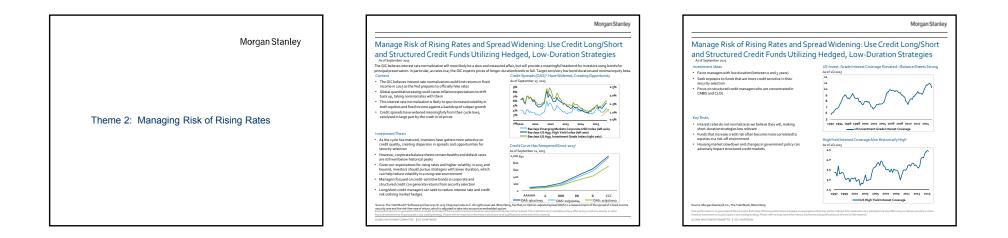


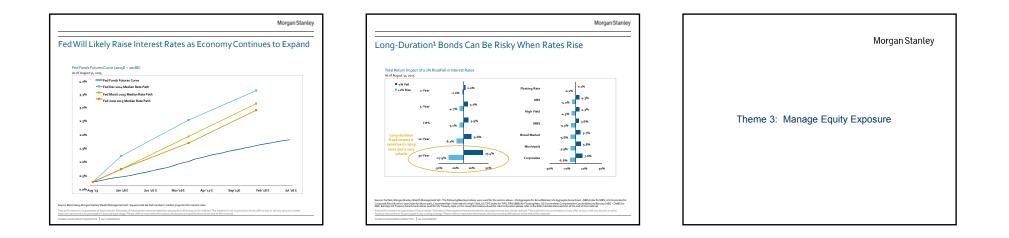
Manage Broad Global Volatility: Consi	ider Global Macro and Managed Futures
Strategies to Hedge Potential Market Ard Spensor Ard	y son normalize, possibility increasing by as much as 30% over the next three-to-five years ac ad to additional volatility in currencies and commodities across developed and emerging
InvestmentThesis	Global Macro Strategies Can Provide Potentially Higher Returns and
 We see volatility in fixed income and equity markets continuing to pick up in 2015 as central bank policy divergence causes re-pricing in interest rates and currencies. 	Less Risk During Major Equity Market Drawdowns As of August 35, 2015
 The GIC believes that 2015 is the year of the "Great Rebalancing" where growth momentum spreads from US corporates to non-US markets and global consumers 	30% Sept. 2000-Sept. 2002 Nov. 2007 March 2009
 As a result, it makes sense to have exposure to global macro and managed futures strategies given their relatively low volatility 	-40%
 These strategies should deliver uncorrelated return streams with normalization in rate, currency and commodity markets 	Comulative Standard ² Comulative Standard ² Performance Deviation Performance Deviation

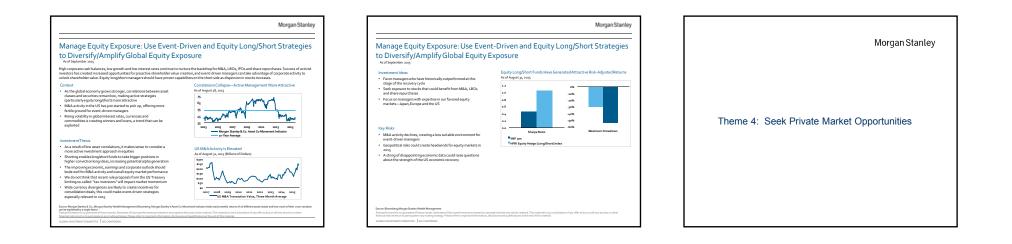












Morgan Stanley

Seek Private Market Opportunities

- Private Equity Outlook
 Commodity Companies (Energy, Metals)
 Secondaries
- Real Estate Outlook
 U.S. Residential Market Opportunities
 Niche Market Opportunities (College Campus, Senior Living)
- Private Debt Outlook Bank Regulation Trade
 Middle Market
 Europe
 Real Estate
 Energy
- Impact Investing
 Socially responsible private equity

Appendix	
HEDGE FUND RISK RETURN COMP	ARISON: LIST OF INDEXES UTILIZED
US Equity	S&P 500
Global Equity	MSCI EAFE - Net
US Bonds	Barclays Aggregate Bond Index
Real Estate	NCREIF Property Index
Private Equity	PrEQIn All Private Equity Index
Equity Market Neutral	HFRI EH: Equity Market Neutral Index
Event Driven	HFRI Event-Driven (Total) Index
Distressed	HFRI ED: Distressed / Restructuring Index
Merger Arbitrage	HFRI ED: Merger Arbitrage Index
Macro	HFRI Macro (Total) Index
Long / Short Equity	HFRI Equity Hedge (Total) Index
Hedge Funds	HFRI Fund Weighted Composite Index
Emerging Markets	HFRI Emerging Markets (Total) Index
Fixed Income	HFRI RV: Fixed Income-Corporate Index
Relative Value	HFRI Relative Value (Total) Index
Convertible Arbitrape	HFRI RV: Fixed Income-Convertible Arbitrage Index

35 INTRODUCTION TO ALTERNATIVE INVESTMENTS

Appendix (cont'd)	
SK CONSIDERATIONS	
vesting in Alternative Investments can involve a high-degree of risk. These are speculative securities. Bi ks, charges and expenses. This and other information can be found in a fund's confidential offeringmen	
TERNTATIVE INVESTMENTS	
aluation Blak Certain alternative investment funds often trade in exoteric andjor illiquid securities. In no anagens to estimate maket values. In stressed markets this problemmay be magnified, leaving investe investments for which market quotationaure out available may at times be estimates, which may affe	rs with an imprecise understanding of a portfolio's Net Asset Value. Valuations
ectalized Trading Special investment techniques such as leveraging, short-selling and investing in der	
anager Rick investing in a fund exposes investors to risks particular to that fund manager. These risks o here, in the case of a fund of funds, although the investment Manager selects managers it believes are p	
quidity Risk Interests in certain alternative investment funds are generally not readily marketable and n inted circumstances. Accordingly investors have to bear the risks of investing for the full duration of the	
vestment Process / Model Risk The Investment Manager's investment process may be heavily depend oliven that these analyses will accurately condict future results	
arket Risk The value of securities, commodities, and currencies may fuctuate reflecting a variety of fac	tors including changes in insertor outlook and colitical and according
vizements.	
rategy Rick Investments in diverse and sometimes complex strategies are affected in different ways an it of market favor for considerable periods, with adverse consequences for the portfolio.	d at different times by changing market conditions. Strategies may at times be
centive Compensation Managery will, in general, oncoive performance compensation, which may give eculative than might be the case if no performance compensation were paid.	the managersincentives to make investments that carry greater risk or more
EDGE FUNDS	
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compensation on proving services to your account. Divensity accounts send in the send of the Funds will not provide any benefit of diversitication of your overall portfolio unless it is profitable and produces returns the from studied and benefit mathematication and and an another send of the send of the

et counts. Transfor You will be tased on your thave of each Fund's course, even though the Fund does not intend to make any distributions. **Manager Rich** The green partner at any time may welk can all kince the Fund's asserts to advicen that are not described in the prospectus. You may not be advised of such changes i advance. You man ter you are bailing the green partners to self-advicence addisactes and senses among them.

37 | INTRODUCTION TO ALTERNATIVE INVESTMENTS

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38 INTRODUCTION TO ALTERNATIVE INVESTMENTS

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39 INTRODUCTION TO ALTERNATIVE INVESTMENTS

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	wing index includes strategies which employ an investment process focused on corporate fixed income instruments, primarily on corporate credit maling at closures to their value at insumce or obliged (parvalue) at maturity as a result of either formalitanion ptry proceeding or financial amp proceedings.
	fex (Emerging Markets) Emerging Markets funds invest in the securities of companies or the sovereign debt of developing or 'emerging' countries. The serging Markets indexes are selected according to their Regional Investment Focus only. There is no investment Strategy or the fast circlusion in these
HFRI Equity Hedge Index options.	Long / ShartEquity/Equity Hedge investing consists of a core holding of long equities hedged at all times with short sales of stocks and / or stock index
HFRI Equity Market Neuts movement and relationshi	al Index includes strategies which employ sophisticated quantitative techniques of analyzing price data to ascertain informationabout future price schetween securities, select securities for purchase and sale.
	ent managers who maintain positions in companies currently or prospectively involved in corporate transactions of a wide variety including but not limited to ancial distress, tender offen, shareholder buybacks, debt eschanger, security insuance or other capital structure adjustments.
	Hible Arbitrage index includes strategies is which the investment thesis is predicated on realization of a spread between related instruments in which one on spread is a convertible fload income instrument.
	the index includes strategies in which the investment thesis is predicated on realization of a spread between related instruments in which one or multiple s a corporate fixed income instrument.
IFRI Fund of Funds Comp	osite index An equally weighted performance index that accounts for more than illoo hedgefunds of funds listed in the HFR Database.
	positeIndex An equally weighted composite index, which accounts for over 2,000 funds listed on the internal HFRI Database. The Funds included in the neuron, net of all fees returns, assets in LISD and have at least sco million under management or have been actively tradicator at least 12 months.

40 | INTRODUCTION TO ALTERNATIVE INVESTMENTS

Appen	lix (cont'd)	
REFERENCEDINDEX		
HFRI Macro Index (Gli commodities.	alMacro) Macro involves investing by making leverage dibets on anticipated price mo	vements of stock markets, interest rates, foreignexchange and physical
	ndex includes strategies which employ an investment process primarily focused on o a corporate transaction.	pportunities in equity and equity related instruments of companies which
	exinvestment Managers who maintain positions in which the investment thesis is pro les. Managers employ a variety of fundamental and quantitative techniques to establi ar other security/types.	
IBEX 25 Index Official	dex of the Spanish Continuous Market, comprises the 35 most liquid stocks traded on	the Continuous market.
MSCI EAFE Index The developed world beyo	AFE is a broad market cap-weighted index that was formulated by Morgan Stanley Ca North America.	pital International (MSCI) to represent equity market performance in the
MSCI Singapore Free I Singapore Stock Exche	fex A free-float adjusted market capitalization weighted index that is designed to tra- 36.	k the equity market performance of Singapore securities listed on
MSCI Talwan Index A Exchange and GreTai 1	e-float adjusted market capitalization weighted index that is designed to track the eq surfixes Market.	uity market performance of Taiwanese securities listed on Taiwan Stock
MSCI World Index An	dex consisting of approximately 3, goo stocks in 23 countries globally and representing	a significant portion of the total market capitalization in those countries
reflects companies acr	udes 100 of the largest domestic and international non-financial securities listed on 7 s major industry groups including computer hardware and software, telecommunical spanies including investment companies.	
	Returns A quarterly time series composite total rate of return measure of investment, e private market for investment purposes only. All properties in the NP1 have been ac- sion funds. As such, all properties are held in a fiduciary environment.	performance of a very large pool of individual commerciaireal estate pired, at least in part, on behalf of tax-exemption titutional investors - the
strategie susing both of discontinued aperation	arturity Fund Index Presents the performance information of private-equity real esta in-ended and closed-ended structures. The performance data comprises both active is Return information is represented both in the time-weighted format, which is most as storic closed-ended vehicles that we hibb conformance outteres descendent on their lift	westments, as well as funds that have completed their full lifecycle or consociate for open end whicles and vintage year descriptive statistics.

44 INTRODUCTION TO ALTERNATIVE INVESTMENTS

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Append	ix (cont'd)
GLOSSARY OF TERMS	
Alpha A mathematical vali movement.	ise indicating an investment's excess return relative to a benchmark. Measures a manager's value added relative to a passive strategy, independent of market
	ue of volatility of a security or strategy relative to a market index. An investment with a beta less than 1.0 is less volatile than the market, while an investment o is more volatile than the market.
Collateralized Debt Oblig Obligations.	pations (CDDu) A general inclusive term which covers Collateralized Bond Obligations, Collateralized Loan Obligations, and Collateralized Montgage
property includes, but is re	acked Securities (CMBI) Similar to Mortgage Backed Securities but backed by loans secured with commercial, rather than residential, property. Commercial of Imited to, multi-family, result, and effice space. They are not standardized on there are a lot of details associated with topics such as structure, and t Excitor that needs to a understood when values these instruments.
	the degree to which two variables move in the same direction with the same impact on preformance, measured in a range of -1.0 to 1.0. A correlation of -1.0 move inversely with one another while a correlation of 1.0 implies that the variable move in exactly the same manner. A correlation of zero implies that there the movement of the variables (therefore implying prefix diversification).
Drawdown A measure of i	risk often expressed as the percentage loss of a fund's or strategy's highest value to its lowest value within a specific time period.
Exchange Funds: Private	vehicles which enable holders of concentrated stock positions to exchange those stocks for a diversified portfolio.
Fund of Hedge Funds: Ac	tively and professionally managed portfolio sconsisting of multiple hedge funds offering diversification across managers, strategies, styles, and / or sectors.
	anaged investment funds that utilize sophisticated strategies in both the international and domestic markets. They're designed to potentially offset losses and offsen seek to generate returns higher than traditionalistock and bond investments.
	ys professional money managers called Commodity Trading Advisorsto direct investments in global currencies, interest rates, equities, metals, energy and gh the use of futures, forwards and options on the basis of technical and fundamental analysis.
	invests globally in nonpublic entities with a value-add approach, seeking to acquire undervalued / underperforming entities or ones with significant growth w of reselling at a higher price in the future. Underlying asset classes include buyouts, venture capital, and mezzanine debt.
Real Estate: Negotisted p	rivate investments in real estate assets with the objective of generating current income and / ocreselling at a higher value in the future.
Real Estate Investment T	rust (REIT) invests in real estate or loans secured by real estate and issue shares in such investments. A REIT is similar to a closed-end mutual fund.
Real Estate Operating Co	mpany (REDC). A firm whose primary business is to own, acquire, develop and manage real properties.
Standard Deviation A me portfolio.	asure of the variation of returns around the mean return. Standard deviation is the most widely used approximation of the risk of an individual investment or
Charma Ratio & measure r	frisk-adjusted return calculated by dividing an investment's return over the risk-free rate file. Treasury bill vield by the investment's standard deviation.

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44 INTRODUCTION TO ALTERNATIVE INVESTMENTS

Appendix (c	ont'd)	
IMPORTANT DISCLOSURES (cont'd)		
Co. LLC or its affiliates.	s by NASLO CONSULTINUE 1711 and was not prepared by the Hi	search Departments of Morgan Stanley Smith Barney LLC or Morgan Stanley &
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Past performance is no guarantee of ful	are results. Actual results may vary. Diversification does not a	nsure a profit or protect against loss in a declining market.
Management placement clients, a one-		additional free paid to a placement agent by an investor (forMorganStanley Wealth ley Wealth Management Consulting Clients, an annual advisoryfee of up to 2,5%),
	iss annual performance is 6.00%, the compounding effect of t	tedy and have a compounding effect on performance. For example, on an advisory he fees will result in a net performance of approximately 3.92% after one year,
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The type of mutual funds and ETFs discussed in this presentation utilizes nontraditional or complex investment strategies and/or derivatives. Examples of these types of funds include those that utilize one or more of the below noted investment strategies or categories or which seek exposure to the following markets:

Commodities (e.g., agricultural, energy and metals), Currency, Precious Metals
 Managed Futures
 Leveraged, Inverse or Inverse Leveraged
 Bear Market, Hedging, Long-Short Equity, Market Neutral
 Pearl Entraines

- Real Estate
- Volatility (seeking exposure to the CBOE VIX Index)

You should keep in mind that while mutual funds and ETFs may, at times, utilize nontraditional investment options and strategies, they should not be equated with unragistance phrasely offered alternative investments. Because of regulatory imitations, mutual hards and ETFs investments and the strategies and etc. The strategies are provided and the strategies without hards relation to the strategies without and ETFs may were print radiational length of the strategies without hards radiations and and there in the length strategies and ETFs may were print and the strategies without hards radiation and the strategies and ETFs may were print and the strategies without meet ability client indeeption. This different jusquidity paths can be an anterial prace on the investment strategies without meet ability client indeeption. This different jusquidity paths can be an anterial prace on the investment strategies without and and the strategies and ETFs may were print and the strategies and ETFs in the strategies of the strategies and ETFs in the strategies that hards typically must and an extension the strategies and ETFs in the strategies and the strategie

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Appendix HFRI Indices

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Hedge Fund Index Performance Biases

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Survivorship bias results when certain constituents are removed from an index. This often results from the closure of funds due to poor performance. "blow ups." advectoring users show the characterization marker renders manch inside: well determine the characterization advectorization and the characterization advectorization advector

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URANCE PRODUCTS AND ETT DISCLOSURES genEarlarly Strift Hamry LLC offen issearces products in conjunction with its learned insurance agency affiliates. newatment in an **exchange-traded find** involves mich similar to those of investing in a brasely based portfolio of equity securities traded on the Munimissrow and by such factors are accounted and policial developments, charges in interest rates and perceived trade in tack card box on Munimissrow and by such factors are accounted and policial developments, charges in interest rates and perceived trade in tack card box model failure analysis and features anomalies and particle descriptions, to deep normalisment and particle descriptions and the second reduce the death benefit and cash surrender value.

Asset Class Risk Considerations	
For index definitions to the indices referenced in this report please visit the following: http://www.morganstanleyfa.com/pu	blic/projectfiles/id.pdf
Equity securities may fluctuate in response to news on companies, industries, market conditions and general economic environment.	
Investing in foreign markets entails risks not typically associated with dorrestic markets, such as currency fluctuations and controls, restrictions on foreig and regulation, and the potential for political instability. These risks may be magnified in countries with emerging markets and frontier markets, since governments and less established markets and economies.	
Investing in small- to medium-sized companies entails special risks, such as limited product lines, markets and financial resources, and greater volatili companies.	ity than securities of larger, more established
The value of fixed income securities will fluctuate and, upon a sale, may be worth more or less than their original cost or maturity value. Bonds are subji- risk, liquidity risk, and credit risk of the issuer.	ect to interest rate risk, call risk, reinvestment
High yield bonds (bonds rated below investment grade) may have speculative characteristics and present significant risks beyond those of other volatility, and limited liquidity in the secondary market. High yield bonds should comprise only a limited portion of a balanced portfolio.	securities, including greater credit risk, price
Intervent on municipal bonds is generally exempt from federal income tax; however, some bonds may be subject to the alternative minimum tax (Al securities are issued within one's state of residence and, if applicable, local tax-exemption applies if securities are issued within one's city of residence.	MT). Typically, state tax-exemption applies if
Treasury Inflation Protection Securities' (TIPS) coupon payments and underlying principal are automatically increased to compensate for inflation by to the real rate of neturn is guaranteed, TIPS tend to offer a low return. Because the return of TIPS is linked to inflation, TIPS may significantly underperform low inflation.	racking the consumer price index (CPI). While versus conventional U.S. Treasuries in times of
Ultrashort-term fixed income asset class is comprised of fixed income securities with high quality, very short maturities. They are therefore subject to th credit and interest rate risk.	e risks associated with debt securities such as
	Iterature investments. The index of traditional methods to below gas, bedriveling, or other methods to below gas, bedriveling, or other properties of the traditional states of the resonance of the states of the states of the states with a Partonenships (BLP) is closely and a state provide the states of the st
limited diversification and sensitivity to economic factors such as interest rate changes and market recessions.	
Risks of pirate real estate include: illiquidity, a long-term investment horizon/with a limited or nonosistent secondarymerket, lack of transparency, volatilit Principal is returned on a monthly basis over the life of a montgage-backed security. Principal prepayment can significantly affect the monthly income including standard/MIS, CMO and Lottery Bond.	
Asset-backed securities generally decrease in value as a result of interest rate increases, but may benefit less than other fixed-income securities from o prepayments.	declining interest rates, principally because of

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Asset Class Risk Conside	rations (cont'd)
loating-rate securities The initial interest rat	s on a floating-rate security may be lower than that of a fixed-rate security of the same maturity because investors expect to receive additional incom to underlying reference rate. The reference rate could be an index or an interest rate. However, three can be no assurance that the reference rate wi
felds are subject to change with economic con	diron. Yield is only one factor that should be considered when making an investment decision.
reditratings are subject to change.	
companies paying dividends can reduce or cut	payouts at any time.
aset allocation and diversification do not ass	re a profit or protect against loss in declining financial markets.
he Indices are unmanaged. An investor cannol	invent directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment.
he indices selected by Morgan Stanley We epresentative indices at any time.	th Management to measure performance are representative of broad asset classes. Morgan Stanley Wealth Management retains the right to change
ecause of their narrowfocus, sector investme	its tend to be more volatile than investments that diversify across many sectors and companies.
rowth investing does not guarantee a profit e more risky than an investment in a company	c eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock ca with more modest growth expectations.
trategies which would result in stock prices the	
bebalancing does not protect against a loss in rplementing such a strategy.	declining financial markets. There may be a potential tax implication with a rebalancing strategy. Investors should consult with their tax advisor befor
ortfolio would be to changes in interest rates.	bond risk, quantifies the effect of changes in interest rates on the price of a bond or bond pothfolio. The longer the duration, the more sensitive the bond of
	at may decline in value, closed-end funds may have additional risks related to declining market prices relative to net asset values (NAVs), active manage e funds also invest in foreign securities, which may involve currency risk.
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	of the specified date, and may be stale thereafter. We have no obligation to tell you when information herein may change. We and our third-party dat ith respect to the accuracy or completeness of this material. Past performance is no quarantee of future results.
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