Global Investment Committee Asset Allocation Models for Investors With \$20 Million or More in Investable Assets (Level 3)

Tactical Changes Effective July 8, 2011

	Global Bonds and Inflation- linked Securities		Glob	Global Bonds, Global Equities and Alternative/Absolute Return Investments											Global Equities and Alternative/Absolute Return investments				
Model Portfolios		del 1	+	del 2	~~~~~	del 3	7	del 4	· · · · · · · · · · · · · · · · · · ·	del 5		lel 6		neturn in odel 7	1	del 8			
	Strategic		Strategic		Strategic Tactical				Strategic		Strategic				1				
Global Cash	25%	23%	13%	11%	8%	6%	50 ategic	3%	3%	1%	2%	0%	Strategi	c ractical	Strategi	c Tactical			
Global Bonds	1 23/3	2030	1 43.0	4470	1 22	0/0	1 270	370	1 2/0	1./3	1 270	076	1	**	<u> </u>				
Investment Grade	65	68	55	46	40	30	30	20	20	10	6	1	-	*	T _				
Short Duration	10	7	7	5	7	5	5	3	2	0	3	ō	-	w.	-	_			
Government/ Government-Related	33	27	30	21	21	11	16	6	12	2	2	0	-	*	1				
Corporate & Securitized	22	34	18	20	12	14	9	11	6	8	1	1	~	_	_				
High Yield			2	4	3	5	4	6	5	7									
Emerging Markets	_	-		-	2	3	3	4	4	5	6	6 2	-	-	-	*			
Total Bonds	65	68	57	50	45	38	37	30	29	22	16	9		*	-	+			
Total Cash & Short							british						-	•	•	*			
Duration Bonds	35	30	20	16	15	11	10	6	5	1	5	0	-	-	-	~			
Global Equities													***************************************		*	***************************************			
US Large	-	-	6	11	8	12	10	14	14	18	18	24	22	24	18	20			
Growth	-	An.	3	7	4	7	5	8	7	11	9	14	11	14	9	12			
Value	-	-	3	4	4	5	5	6	7	7	9	10	11	10	9	8			
US Mid	*	-	-	*	2	2	2	3	2	3	4	5	4	4	4	4			
Growth	+	~	-	*	1	1	1	2	1	2	2	3	2	2	2	2			
Value	-	~	-	-	1	1	1	1	1	1	2	2	2	2	2	2			
Canada	•	-	1	1	1	1	1	1	1	1	2	2	3	3	2	2			
Europe	•	~	4	3	6	4	7	4	9	5	12	7	16	8	13	4			
Europe ex UK UK	-	9	3	2	4	2	5	2	6	2	8	3	11	4	9	2			
Developed Asia	An.	-	1 2	1 1	2	2	2	2	3	3	4	4	5	4	4	2			
Japan	~	-	1	0	2	1 0		1 0	5	2	7	2	9	3	7	2			
Asia Pacific ex Japan			1	1	1	1	3 1	1	3	0 2	5 2	0 2	6 3	0 3	5	0			
US Small		_	1		2	2	2	3	i						2	2			
Growth	-	-					-		2	3	2	3	4	4	6	6			
Value	~	*	-	*	1	1	1 1	2	1	2	1	2	2	2	3	4			
World ex US Small		-	1	2	1	1 2	2	1 3	1 2	1	1	1	2	2	3	2			
Emerging Markets	_	_	2	4	3	8	4	9	5	3 11	3 6	3 14	4 8	4 16	7	7			
Total Equity		_	16	22	26	32	32	38	40	46	54	60	70	66	13 70	21 66			
Total US Equity	_	_	6	11	12	16	14	20	18	24	24	32	30	32	28	30			
Total Developed ex US Equity		~	8	7	11	8	14	9	17	11	24	14	32	18	29	15			
Total Developed Market Equity	w	*	14	18	23	24	28	29	35	35	48	46	62	50	57	45			
Total Emerging Market Equity		-	2	4	3	8	4	9	5	11	6	14	8	16	13	21			
Global Alternative/A	osolute	Keturr			~				~		***************************************								
REITs Commodities	-	a formation	2	3	2	3	3	4	2	3	2	3	2	3	2	3			
Inflation-Linked	*	-	2	5	2	5	2	5	2	5	3	6	5	8	5	8			
Securities	10	9	3	2	3	2	3	2	3	2	2	1	-	-	٠				
Managed Futures	-	-	2	2	4	4	4	4	4	4	5	5	5	5	5	5			
Hedge Funds	-		5	5	8	8	11	11	11	11	10	10	10	10	10	10			
Private Real Estate	-	- 1	~	- 1	-	-	-	- I	2	2	2	2	3	3	3	3			
Private Equity	-	de sessiones	-	-	2	2	3	3	4	4	4	4	5	5	5	5			
Total Alternative/ Absolute Return Investments	10	9	14	17	21	24	26	29	28	31	28	31	30	34	30	34			

Index Definitions

BARCLAYS CAPITAL US AGGREGATE CORPORATE INVESTMENT GRADE INDEX This index provides a broad-based measure of the market for US investment-grade corporate debt. BARCLAYS CAPITAL US AGGREGATE CORPORATE HIGH YIELD INDEX This index provides a broadbased measure of the market for US high yield fixed income securities. **STANDARD & POOR'S 500 INDEX** Widely regarded as the best single gauge of the US equities market, this capitalization-weighted index includes a representative sample of 500 leading companies in leading industries of the US economy.

Disclosures

This material has been prepared for informational purposes only and is not an offer to buy or sell or a solicitation of any offer to buy or sell any security or other financial instrument or to participate in any trading strategy. This is not a research report and was not prepared by the Research Departments of Morgan Stanley & Co. LLC or Citigroup Global Markets Inc. The views and opinions contained in this material are those of the author(s) and may differ materially from the views and opinions of others at Morgan Stanley Smith Barney LLC or any of its affiliate companies. Past performance is not necessarily a guide to future performance. Please refer to important information, disclosures and qualifications at the end of this material.

The author(s) (if any authors are noted) principally responsible for the preparation of this material receive compensation based upon various factors, including quality and accuracy of their work, firm revenues (including trading and capital markets revenues), client feedback and competitive factors. Morgan Stanley Smith Barney is involved in many businesses that may relate to companies, securities or instruments mentioned in this material.

This material has been prepared for informational purposes only and is not an offer to buy or sell or a solicitation of any offer to buy or sell any security/instrument, or to participate in any trading strategy. Any such offer would be made only after a prospective investor had completed its own independent investigation of the securities, instruments or transactions, and received all information it required to make its own investment decision, including, where applicable, a review of any offering circular or memorandum describing such security or instrument. That information would contain material information not contained herein and to which prospective participants are referred. This material is based on public information as of the specified date, and may be stale thereafter. We have no obligation to tell you when information herein may change. We make no representation or warranty with respect to the accuracy or completeness of this material. Morgan Stanley Smith Barney has no obligation to provide updated information on the securities/instruments mentioned herein.

The securities/instruments discussed in this material may not be suitable for all investors. The appropriateness of a particular investment or strategy will depend on an investor's individual circumstances and objectives. Morgan Stanley Smith Barney recommends that investors independently evaluate specific investments and strategies, and encourages investors to seek the advice of a financial advisor. The value of and income from investments may vary because of changes in interest rates, foreign exchange rates, default rates, prepayment rates, securities/instruments prices, market indexes, operational or financial conditions of companies and other issuers or other factors. Estimates of future performance are based on assumptions that may not be realized. Actual events may differ from those assumed and changes to any assumptions may have a material impact on any projections or estimates. Other events not taken into account may occur and may significantly affect the projections or estimates. Certain assumptions may have been made for modeling purposes only to simplify the presentation and/or calculation of any projections or estimates, and Morgan Stanley Smith Barney does not represent that any such assumptions will reflect actual future events. Accordingly, there can be no assurance that estimated returns or projections will be realized or that actual returns or performance results will not materially differ from those estimated herein.

This material should not be viewed as advice or recommendations with respect to asset allocation or any particular investment. This information is not intended to, and should not, form a primary basis for any investment decisions that you may make. Morgan Stanley Smith Barney is not acting as a fiduciary under either the Employee Retirement Income Security Act of 1974, as amended or under section 4975 of the Internal Revenue Code of 1986 as amended in providing this material.

Morgan Stanley Smith Barney and its affiliates do not render advice on tax and tax accounting matters to clients. This material was not intended or written to be used, and it cannot be used or relied upon by any recipient, for any purpose, including the purpose of avoiding penalties that may be imposed on the taxpayer under US federal tax laws. Each client should consult his/her personal tax and/or legal advisor to learn about any potential tax or other implications that may result from acting on a particular recommendation.

International investing entails greater risk, as well as greater potential rewards compared to US investing. These risks include political and economic uncertainties of foreign countries as well as the risk of currency fluctuations. These risks are magnified in countries with emerging markets, since these countries may have relatively unstable governments and less established markets and economies.

Alternative investments which may be referenced in this report, including private equity funds, real estate funds, hedge funds, managed futures funds, funds of hedge funds, private equity, and managed futures funds, are speculative and entail significant risks that can include losses due to leveraging or other speculative investment practices, lack of liquidity, volatility of returns, restrictions on transferring interests in a fund, potential lack of diversification, absence and/or delay of information regarding valuations and pricing, complex tax structures and delays in tax reporting, less regulation and higher fees than mutual funds and risks associated with the operations, personnel and processes of the advisor.

investing in commodities entails significant risks. Commodity prices may be affected by a variety of factors at any time, including but not limited to, (i) changes in supply and demand relationships, (ii) governmental programs and policies, (iii) national and international political and economic events, war and terrorist events, (iv) changes in interest and exchange rates, (v) trading activities in commodities and related contracts, (vi) pestilence, technological change and weather, and (vii) the price volatility of a commodity. In addition, the commodities markets are subject to temporary distortions or other disruptions due to various factors, including lack of liquidity, participation of speculators and government intervention.

Bonds are subject to interest rate risk. When interest rates rise, bond prices fall; generally the longer a bond's maturity, the more sensitive it is to this risk. Bonds may also be subject to call risk, which is the risk that the issuer will redeem the debt at its option, fully or partially, before the scheduled maturity date. The market value of debt instruments may fluctuate, and proceeds from sales prior to maturity may be more or less than the amount originally invested or the maturity value due to changes in market conditions or changes in the credit quality of the issuer. Bonds are subject to the credit risk of the issuer. This is the risk that the issuer might be unable to make interest and/or principal payments on a timely basis. Bonds are also subject to reinvestment risk, which is the risk that principal and/or interest payments from a given investment may be reinvested at a lower interest rate.

Bonds rated below investment grade may have speculative characteristics and present significant risks beyond those of other securities, including greater credit risk and price volatility in the secondary market. Investors should be careful to consider these risks alongside their individual circumstances, objectives and risk tolerance before investing in high-yield bonds. High yield bonds should comprise only a limited portion of a balanced portfolio.

Treasury Inflation Protection Securities' (TIPS) coupon payments and underlying principal are automatically increased to compensate for inflation by tracking the consumer price index (CPI). While the real rate of return is guaranteed, TIPS tend to offer a low return. Because the return of TIPS is linked to inflation, TIPS may significantly underperform versus conventional US Treasuries in times of low inflation.

Equity securities may fluctuate in response to news on companies, industries, market conditions and general economic environment.

Investing in smaller companies involves greater risks not associated with investing in more established companies, such as business risk, significant stock price fluctuations and illiquidity.

Asset allocation and diversification do not assure a profit or protect against loss in declining financial markets.

The indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment.

REITs investing risks are similar to those associated with direct investments in real estate: property value fluctuations, lack of liquidity, limited diversification and sensitivity to economic factors such as interest rate changes and market recessions.

Because of their narrow focus, sector investments tend to be more volatile than investments that diversify across many sectors and companies.

Certain securities referred to in this material may not have been registered under the US Securities Act of 1933, as amended, and, if not, may not be offered or sold absent an exemption therefrom. Recipients are required to comply with any legal or contractual restrictions on their purchase, holding, sale, exercise of rights or performance of obligations under any securities/instruments transaction.

Investing in foreign emerging markets entails greater risks than those normally associated with domestic markets, such as political, currency, economic and market risks.

Value investing does not guarantee a profit or eliminate risk. Not all companies whose stocks are considered to be value stocks are able to turn their business around or successfully employ corrective strategies which would result in stock prices that do not rise as initially expected.

Growth investing does not guarantee a profit or eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth expectations.

This material is disseminated in Australia to "retail clients" within the meaning of the Australian Corporations Act by Morgan Stanley Smith Barney Australia Pty Ltd (A.B.N. 19 009 145 555, holder of Australian financial services license No. 240813).

Morgan Stanley Smith Barney is not incorporated under the People's Republic of China ("PRC") law and the research in relation to this report is conducted outside the PRC. This report will be distributed only upon request of a specific recipient. This report does not constitute an offer to sell or the solicitation of an offer to buy any securities in the PRC. PRC investors must have the relevant qualifications to invest in such securities and must be responsible for obtaining all relevant approvals, licenses, verifications and or registrations from PRC's relevant governmental authorities.

Morgan Stanley Private Wealth Management Ltd, which is authorized and regulated by the Financial Services Authority, approves for the purpose of section 21 of the Financial Services and Markets Act 2000, content for distribution in the United Kingdom.

Morgan Stanley Smith Barney is not acting as a municipal advisor and the opinions or views contained herein are not intended to be, and do not constitute, advice within the meaning of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act.

This material is disseminated in the United States of America by Morgan Stanley Smith Barney LLC.

Third-party data providers make no warranties or representations of any kind relating to the accuracy, completeness, or timeliness of the data they provide and shall not have liability for any damages of any kind relating to such data.

Morgan Stanley Smith Barney material, or any portion thereof, may not be reprinted, sold or redistributed without the written consent of Morgan Stanley Smith Barney

© 2011 Morgan Stanley Smith Barney LLC Member SIPC.

6768778 MSSB 07/11

STRATEGIC ASSET ALLOCATION

Table 1: Strategic Return and Volatility Estimates*

	ANNUALIZED RETURN ESTIMATE	AVERAGE RETURN ESTIMATE**	ANNUALIZED VOLATILITY ESTIMATE
Cash (USD three-month Libor)	4.2%	4.2%	0.6%
Global Investment-Grade Bonds	5.6%	5.6%	3.1%
US Short-Duration Bonds	4.3%	4.3%	1.7%
US Investment-Grade Bonds	5.6%	5.7%	3.9%
US Municipal Bonds	4.0%	4.1%	4.4%
Non-US Bonds (hedge to USD)	5.5%	5.5%	3.0%
Global High Yield Bonds	7.6%	8.1%	10.4%
US High Yield Bonds	7.6%	8.0%	9.6%
Emerging Market Debt	8.6%	9.5%	14.4%
Global Developed-Market Stocks	9.1%	10.2%	15.5%
US Stocks	9.6%	10.6%	15.2%
US Large-Cap Stocks	9.4%	10.4%	15.0%
US Large-Cap Value	9.4%	10.4%	14.7%
US Large-Cap Growth	9.4%	10.8%	17.5%
US Mid-Cap Stocks	10.0%	11.2%	16.8%
US Mid-Cap Value	10.0%	11.1%	16.0%
US Mid-Cap Growth	10.0%	12.0%	21.5%
US Small-Cap Stocks	10.2%	11.9%	19.5%
US Small-Cap Value	10.2%	11.5%	17.0%
US Small-Cap Growth	10.2%	12.6%	23.4%
Developed World ex US Stocks	8.5%	9.9%	17.4%
Canada Stocks	9.1%	10.8%	19.7%
Europe Stocks	8.7%	10.0%	17.1%
Developed Asia ex Japan Stocks	9.6%	11.5%	21.0%
Japan Stocks	7.4%	9.8%	23.3%
Global Emerging Markets Stocks	11.6%	14.1%	24.5%

in the following and the second of the second of the second

orthographic of the policy of the Albert States of the Sta

in the second of the Maria and the market of the second of the second of the second of the second second of the The second of the second of

[.] Notes that the state of the second of the second of the state of the second of the s

Investor Suitability. The control of the control of

Table 1: Strategic Return and	Volatility Estimates*	(continued)
-------------------------------	-----------------------	-------------

	ANNUALIZED RETURN ESTIMATE	AVERAGE RETURN ESTIMATE**	ANNUALIZED VOLATILITY ESTIMATE
Global REITs	8.0%	9.6%	19.0%
Commodities	7.9%	8.6%	12.5%
Global Inflation-Linked Securities	5.3%	5.4%	5.0%
US Inflation-Linked Securities	5.1%	5.2%	5.2%
Broad Fund of Hedge Funds	9.0%	9.7%	12.7%
Relative-Value Arbitrage	8.1%	8.5%	9.3%
Event Driven	9.3%	9.7%	8.8%
Equity Long-Short	11.2%	11.7%	10.7%
Global Macro	9.6%	10.0%	9.2%
Managed Futures	8.4%	9.4%	15.0%
US Private Equity	12.6%	14.8%	22.6%
Global Private Real Estate	8.0%	8.5%	10.8%

Ovake Angalikuwan en Berskinsus (Managuari 1963). Asi 3 Anwanya kitali panga anga sapara panguwanga saki isa masan nuwah asi inakishu. At sapinu an bisanga muwaki adan si 1902 (1907) 1969 Panguari Austri

Investor Suitability: Person filter commenses the commense of the commenses of the commense

STRATEGIC ASSET ALLOCATION

1	9 1 -0.03 -0.0 0.32 0.3 0.08 -0.1 0.34 0.3 0.29 0.3 0.82 0.6 0.55 0.5 0.56 0.8 0.55 0.6 0.50 0.8 0.50 0.8 0.50 0.8
2 Global Investment-Grade Bonds 0.12 1.00 0.78 0.95 0.69 0.86 0.22 0.18 3 US Short-Duration Bonds 0.31 0.78 1.00 0.80 0.48 0.59 -0.08 -0.10 4 US Investment-Grade Bonds 0.07 0.95 0.80 1.00 0.72 0.67 0.26 0.24 5 US Municipal Bonds 0.01 0.69 0.48 0.72 1.00 0.48 0.31 0.33 6 Non-US Bonds (hedge to USD) 0.12 0.86 0.59 0.67 0.48 1.00 0.10 0.06 7 Global High Yield Bonds -0.13 0.18 0.10 0.24 0.33 0.10 1.00 0.92 1.00 9 Emerging Market Debt (in USD) -0.03 0.32 0.08 0.34 0.29 0.23 0.82 0.52 10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 <	0.32 0.1 0.08 -0.3 0.34 0.3 0.29 0.1 0.23 0.6 0.52 0.5 1.00 0.55 1.0 0.56 0.8 0.54 0.8 0.50 0.8 0.56 0.8 0.55 0.8 0.55 0.8
2 Global Investment-Grade Bonds 0.12 1.00 0.78 0.95 0.69 0.86 0.22 0.18 3 US Short-Duration Bonds 0.31 0.78 1.00 0.80 0.48 0.59 -0.08 -0.10 4 US Investment-Grade Bonds 0.07 0.95 0.80 1.00 0.72 0.67 0.26 0.24 5 US Municipal Bonds 0.01 0.69 0.48 0.72 1.00 0.48 0.31 0.33 6 Non-US Bonds (hedge to USD) 0.12 0.86 0.59 0.67 0.48 1.00 0.10 0.06 7 Global High Yield Bonds -0.13 0.18 0.10 0.24 0.33 0.10 1.00 0.92 1.00 9 Emerging Market Debt (in USD) -0.03 0.32 0.08 0.34 0.29 0.23 0.82 0.52 10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 <	0.08 -0.1 0.34 0.3 0.29 0.5 0.23 0.0 0.82 0.6 0.52 0.5 1.00 0.55 1.0 0.56 0.8 0.54 0.8 0.50 0.8 0.56 0.8 0.50 0.8
3 US Short-Duration Bonds 0.31 0.78 1.00 0.80 0.48 0.59 -0.08 -0.10 4 US Investment-Grade Bonds 0.07 0.95 0.80 1.00 0.72 0.67 0.26 0.24 5 US Municipal Bonds 0.01 0.69 0.48 0.72 1.00 0.48 0.31 0.33 6 Non-US Bonds (hedge to USD) 0.12 0.86 0.59 0.67 0.48 1.00 0.10 0.06 7 Global High Yield Bonds -0.11 0.22 -0.08 0.26 0.31 0.10 1.00 0.92 8 US High Yield Bonds -0.13 0.18 -0.10 0.24 0.33 0.06 0.92 1.00 9 Emerging Market Debt (in USD) -0.03 0.32 0.08 0.34 0.29 0.23 0.82 0.52 10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 0.64 0.59 11 US Ali-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.10 0.66 0.61 12 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.11 0.63 0.58 13 US Large-Cap Value 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.57 14 US Large-Cap Growth 0.04 0.11 -0.08 0.14 0.15 0.06 0.60 0.55 15 US Mid-Cap Stocks 0.03 0.13 -0.13 0.16 0.21 0.07 0.69 0.65 16 US Mid-Cap Value -0.05 0.18 0.10 0.20 0.25 0.12 0.67 0.64 17 US Mid-Cap Stocks -0.04 0.04 0.15 0.09 0.14 0.01 0.61 0.55 18 US Small-Cap Stocks -0.04 0.04 0.15 0.09 0.14 0.01 0.61 0.58 18 US Small-Cap Growth -0.05 0.18 0.10 0.20 0.25 0.12 0.67 0.64 19 US Small-Cap Stocks -0.04 0.04 0.18 0.07 0.12 0.03 0.66 0.62 19 US Small-Cap Growth -0.03 0.01 0.20 0.03 0.08 0.01 0.62 0.58 18 US Small-Cap Growth -0.03 0.01 0.20 0.03 0.08 0.01 0.62 0.58 19 US Small-Cap Growth -0.03 0.01 0.20 0.03 0.08 0.01 0.62 0.58 20 US Small-Cap Stocks -0.04 0.04 0.18 0.07 0.12 0.03 0.66 0.62 21 Developed Market ex-US All-Cap Stocks -0.04 0.08 0.14 0.13 0.16 0.07 0.65 0.63 22 Canada All-Cap Stocks -0.08 0.08 0.01 0.16 0.23 0.09 0.67 0.58 23 Europe All-Cap Stocks -0.01 0.06 0.05 0.09 0.03 0.02 0.31 0.27 24 Developed Asia ex-Japan All-Cap Stocks -0.12 0.06 0.05 0.09 0.03 0.02 0.31 0.27 25 Global Emerging Markets Stocks -0.12 0.06 0.05 0.09 0.03 0.02 0.31 0.27 26 Global Emerging Markets Stocks -0.12 0.06 0.05 0.09 0.03 0.02 0.31 0.27 27 Global REITS -0.12 0.02 0.04 0.02 0.07 0.03 0.	0.34 0.1 0.29 0.2 0.23 0.6 0.82 0.6 0.52 0.5 1.00 0.5 0.56 0.8 0.54 0.8 0.50 0.8 0.56 0.8 0.50 0.8
5 US Municipai Bonds 0.01 0.69 0.48 0.72 1.00 0.48 0.31 0.33 6 Non-US Bonds (hedge to USD) 0.12 0.86 0.59 0.67 0.48 1.00 0.10 0.06 7 Global High Yield Bonds -0.11 0.22 -0.08 0.26 0.31 0.10 1.00 0.92 8 US High Yield Bonds -0.13 0.18 -0.10 0.24 0.33 0.06 0.92 1.00 9 Emerging Market Debt (in USD) -0.03 0.32 0.08 0.34 0.29 0.23 0.82 0.52 10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 0.64 0.59 11 US Alf-Cap Stocks 0.03 0.15 -0.08 0.17 0.19 0.10 0.66 0.61 12 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.11 0.66 0.69 0.55	0.29 0.1 0.23 0.0 0.82 0.6 0.52 0.5 1.00 0.5 1.00 0.55 1.0 0.56 0.8 0.55 0.8 0.50 0.8 0.50 0.8 0.50 0.8
6 Non-US Bonds (hedge to USD) 0.12 0.86 0.59 0.67 0.48 1.00 0.10 0.06 7 Global High Yield Bonds -0.11 0.22 -0.08 0.26 0.31 0.10 1.00 0.92 8 US High Yield Bonds -0.13 0.18 -0.10 0.24 0.33 0.06 0.92 1.00 9 Emerging Market Debt (in USD) -0.03 0.32 0.08 0.34 0.29 0.23 0.82 0.52 10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 0.64 0.59 11 US All-Cap Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 0.64 0.59 11 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.11 0.63 0.58 13 US Large-Cap Value 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.55	0.23 0.0 0.82 0.6 0.52 0.5 1.00 0.5 1.00 0.55 1.0 0.56 0.8 0.55 0.6 0.50 0.8 0.50 0.8 0.50 0.8
6 Non-US Bonds (hedge to USD) 0.12 0.86 0.59 0.67 0.48 1.00 0.10 0.06 7 Global High Yield Bonds -0.11 0.22 -0.08 0.26 0.31 0.10 1.00 0.92 8 US High Yield Bonds -0.13 0.18 -0.10 0.24 0.33 0.06 0.92 1.00 9 Emerging Market Debt (in USD) -0.03 0.32 0.08 0.34 0.29 0.23 0.82 0.52 10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 0.64 0.59 11 US All-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.10 0.66 0.61 12 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.11 0.63 0.58 13 US Large-Cap Value 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.57	0.82 0.6 0.52 0.5 1.00 0.6 0.55 1.0 0.56 0.8 0.55 0.6 0.50 0.8 0.50 0.8 0.50 0.8
7 Global High Yield Bonds -0.11 0.22 -0.08 0.26 0.31 0.10 1.00 0.92 8 US High Yield Bonds -0.13 0.18 -0.10 0.24 0.33 0.06 0.92 1.00 9 Emerging Market Debt (in USD) -0.03 0.32 0.08 0.34 0.29 0.23 0.82 0.52 10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 0.64 0.59 11 US All-Cap Stocks 0.03 0.15 -0.08 0.17 0.19 0.10 0.66 0.61 12 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.11 0.63 0.58 13 US Large-Cap Growth 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.57 14 US Large-Cap Growth 0.04 0.11 -0.08 0.14 0.15 0.06 0.60 <t< td=""><td>0.52 0.5 1.00 0.55 1.0 0.55 1.0 0.56 0.8 0.55 0.8 0.54 0.8 0.50 0.8 0.50 0.8 0.50 0.8</td></t<>	0.52 0.5 1.00 0.55 1.0 0.55 1.0 0.56 0.8 0.55 0.8 0.54 0.8 0.50 0.8 0.50 0.8 0.50 0.8
8 US High Yield Bonds -0.13 0.18 -0.10 0.24 0.33 0.06 0.92 1.00 9 Emerging Market Debt (in USD) -0.03 0.32 0.08 0.34 0.29 0.23 0.82 0.52 10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 0.64 0.59 11 US All-Cap Stocks 0.03 0.15 -0.08 0.17 0.19 0.10 0.66 0.61 12 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.11 0.63 0.58 13 US Large-Cap Walue 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.57 14 US Large-Cap Growth 0.04 0.11 -0.08 0.14 0.15 0.06 0.60 0.55 15 US Mid-Cap Stocks -0.03 0.13 -0.13 0.16 0.21 0.07 0.69 0.65	1.00 0.5 0.55 1.0 0.56 0.8 0.55 0.8 0.54 0.8 0.50 0.8 0.56 0.8
9 Emerging Market Debt (in USD) -0.03 0.32 0.08 0.34 0.29 0.23 0.82 0.52 10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 0.64 0.59 11 US All-Cap Stocks 0.03 0.15 -0.08 0.17 0.19 0.10 0.66 0.61 12 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.11 0.63 0.58 13 US Large-Cap Value 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.57 14 US Large-Cap Growth 0.04 0.11 -0.08 0.14 0.15 0.06 0.60 0.55 15 US Mid-Cap Stocks -0.03 0.13 -0.13 0.16 0.21 0.07 0.69 0.65 16 US Mid-Cap Value -0.05 0.18 -0.10 0.20 0.25 0.12 0.03 0.66 0.6	0.55 1.0 0.56 0.8 0.55 0.8 0.54 0.8 0.50 0.8 0.56 0.8 0.52 0.7
10 Global Developed-Market Stocks -0.06 0.13 -0.12 0.15 0.17 0.08 0.64 0.59 11 US All-Cap Stocks 0.03 0.15 -0.08 0.17 0.19 0.10 0.66 0.61 12 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.11 0.63 0.58 13 US Large-Cap Walue 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.57 14 US Large-Cap Growth 0.04 0.11 -0.08 0.14 0.15 0.06 0.60 0.55 15 US Mid-Cap Stocks -0.03 0.13 -0.13 0.16 0.21 0.07 0.69 0.65 16 US Mid-Cap Stocks -0.05 0.18 -0.10 0.20 0.25 0.12 0.67 0.64 17 US Mid-Cap Growth 0.00 0.05 -0.15 0.09 0.14 0.01 0.61 0.58	0.56 0.8 0.55 0.8 0.54 0.8 0.50 0.8 0.56 0.8 0.52 0.7
11 US All-Cap Stocks 0.03 0.15 -0.08 0.17 0.19 0.10 0.66 0.61 12 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.11 0.63 0.58 13 US Large-Cap Value 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.57 14 US Large-Cap Growth 0.04 0.11 -0.08 0.14 0.15 0.06 0.60 0.55 15 US Mid-Cap Stocks -0.03 0.13 -0.13 0.16 0.21 0.07 0.69 0.65 16 US Mid-Cap Stocks -0.05 0.18 -0.10 0.20 0.25 0.12 0.67 0.64 17 US Mid-Cap Growth 0.00 0.05 -0.15 0.09 0.14 0.01 0.61 0.58 18 US Small-Cap Stocks -0.04 0.04 -0.18 0.07 0.12 0.03 0.66 0.62 19 <td>0.55 0.8 0.54 0.8 0.50 0.8 0.56 0.8 0.52 0.7</td>	0.55 0.8 0.54 0.8 0.50 0.8 0.56 0.8 0.52 0.7
12 US Large-Cap Stocks 0.04 0.17 -0.06 0.19 0.19 0.11 0.63 0.58 13 US Large-Cap Value 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.57 14 US Large-Cap Growth 0.04 0.11 -0.08 0.14 0.15 0.06 0.60 0.55 15 US Mid-Cap Stocks -0.03 0.13 -0.13 0.16 0.21 0.07 0.69 0.65 16 US Mid-Cap Value -0.05 0.18 -0.10 0.20 0.25 0.12 0.67 0.64 17 US Mid-Cap Growth 0.00 0.05 -0.15 0.09 0.14 0.01 0.61 0.58 18 US Small-Cap Stocks -0.04 0.04 -0.18 0.07 0.12 0.03 0.66 0.62 19 US Small-Cap Value -0.06 0.09 -0.15 0.11 0.16 0.07 0.65 0.63 20 </td <td>0.54 0.8 0.50 0.8 0.56 0.8 0.52 0.7</td>	0.54 0.8 0.50 0.8 0.56 0.8 0.52 0.7
13 US Large-Cap Value 0.02 0.19 -0.05 0.20 0.21 0.14 0.62 0.57 14 US Large-Cap Growth 0.04 0.11 -0.08 0.14 0.15 0.06 0.60 0.55 15 US Mid-Cap Stocks -0.03 0.13 -0.13 0.16 0.21 0.07 0.69 0.65 16 US Mid-Cap Value -0.05 0.18 -0.10 0.20 0.25 0.12 0.67 0.64 17 US Mid-Cap Growth 0.00 0.05 -0.15 0.09 0.14 0.01 0.61 0.58 18 US Small-Cap Stocks -0.04 0.04 -0.18 0.07 0.12 0.03 0.66 0.62 19 US Small-Cap Value -0.06 0.09 -0.15 0.11 0.16 0.07 0.65 0.63 20 US Small-Cap Growth -0.03 0.01 -0.20 0.03 0.08 0.01 0.62 0.58 21<	0.50 0.8 0.56 0.8 0.52 0.7
14 US Large-Cap Growth 0.04 0.11 -0.08 0.14 0.15 0.06 0.60 0.55 15 US Mid-Cap Stocks -0.03 0.13 -0.13 0.16 0.21 0.07 0.69 0.65 16 US Mid-Cap Value -0.05 0.18 -0.10 0.20 0.25 0.12 0.67 0.64 17 US Mid-Cap Growth 0.00 0.05 -0.15 0.09 0.14 0.01 0.61 0.58 18 US Small-Cap Stocks -0.04 0.04 -0.18 0.07 0.12 0.03 0.66 0.62 19 US Small-Cap Value -0.06 0.09 -0.15 0.11 0.16 0.07 0.65 0.63 20 US Small-Cap Growth -0.03 0.01 -0.20 0.03 0.08 0.01 0.62 0.58 21 Developed Market ex-US All-Cap Stocks -0.09 0.12 -0.11 0.14 0.15 0.08 0.58 22 <td>0.56 0.8 0.52 0.7</td>	0.56 0.8 0.52 0.7
15 US Mid-Cap Stocks -0.03 0.13 -0.13 0.16 0.21 0.07 0.69 0.65 16 US Mid-Cap Value -0.05 0.18 -0.10 0.20 0.25 0.12 0.67 0.64 17 US Mid-Cap Growth 0.00 0.05 -0.15 0.09 0.14 0.01 0.61 0.58 18 US Small-Cap Stocks -0.04 0.04 -0.18 0.07 0.12 0.03 0.66 0.62 19 US Small-Cap Value -0.06 0.09 -0.15 0.11 0.16 0.07 0.65 0.63 20 US Small-Cap Growth -0.03 0.01 -0.20 0.03 0.08 0.01 0.62 0.58 21 Developed Market ex-US All-Cap Stocks -0.09 0.12 -0.11 0.14 0.15 0.08 0.58 0.53 22 Canada All-Cap Stocks -0.08 0.08 -0.14 0.13 0.18 0.00 0.67 0.59	0.52 0.7
16 US Mid-Cap Value -0.05 0.18 -0.10 0.20 0.25 0.12 0.67 0.64 17 US Mid-Cap Growth 0.00 0.05 -0.15 0.09 0.14 0.01 0.61 0.58 18 US Small-Cap Stocks -0.04 0.04 -0.18 0.07 0.12 0.03 0.66 0.62 19 US Small-Cap Value -0.06 0.09 -0.15 0.11 0.16 0.07 0.65 0.63 20 US Small-Cap Growth -0.03 0.01 -0.20 0.03 0.08 0.01 0.62 0.58 21 Developed Market ex-US All-Cap Stocks -0.09 0.12 -0.11 0.14 0.15 0.08 0.58 0.53 22 Canada All-Cap Stocks -0.08 0.08 -0.14 0.13 0.18 0.00 0.67 0.59 23 Europe All-Cap Stocks -0.03 0.12 -0.12 0.14 0.16 0.07 0.60 0.58 <td></td>	
17 US Mid-Cap Growth 0.00 0.05 -0.15 0.09 0.14 0.01 0.61 0.58 18 US Small-Cap Stocks -0.04 0.04 -0.18 0.07 0.12 0.03 0.66 0.62 19 US Small-Cap Value -0.06 0.09 -0.15 0.11 0.16 0.07 0.65 0.63 20 US Small-Cap Growth -0.03 0.01 -0.20 0.03 0.08 0.01 0.62 0.58 21 Developed Market ex-US All-Cap Stocks -0.09 0.12 -0.11 0.14 0.15 0.08 0.58 0.53 22 Canada All-Cap Stocks -0.08 0.08 -0.14 0.13 0.18 0.00 0.67 0.59 23 Europe All-Cap Stocks -0.03 0.12 -0.12 0.14 0.16 0.07 0.60 0.58 24 Developed Asia ex-Japan All-Cap Stocks -0.11 0.15 -0.10 0.16 0.23 0.09 0.67	
18 US Small-Cap Stocks -0.04 0.04 -0.18 0.07 0.12 0.03 0.66 0.62 19 US Small-Cap Value -0.06 0.09 -0.15 0.11 0.16 0.07 0.65 0.63 20 US Small-Cap Growth -0.03 0.01 -0.20 0.03 0.08 0.01 0.62 0.58 21 Developed Market ex-US All-Cap Stocks -0.09 0.12 -0.11 0.14 0.15 0.08 0.58 0.53 22 Canada All-Cap Stocks -0.08 0.08 -0.14 0.13 0.18 0.00 0.67 0.59 23 Europe All-Cap Stocks -0.03 0.12 -0.12 0.14 0.16 0.07 0.60 0.58 24 Developed Asia ex-Japan All-Cap Stocks -0.11 0.15 -0.10 0.16 0.23 0.09 0.67 0.58 25 Japan All-Cap Stocks -0.12 0.06 -0.05 0.09 0.03 0.02 0.31	0.50 0.8
19 US Small-Cap Value -0.06 0.09 -0.15 0.11 0.16 0.07 0.65 0.63 20 US Small-Cap Growth -0.03 0.01 -0.20 0.03 0.08 0.01 0.62 0.58 21 Developed Market ex-US All-Cap Stocks -0.09 0.12 -0.11 0.14 0.15 0.08 0.58 0.53 22 Canada All-Cap Stocks -0.08 0.08 -0.14 0.13 0.18 0.00 0.67 0.59 23 Europe All-Cap Stocks -0.03 0.12 -0.12 0.14 0.16 0.07 0.60 0.58 24 Developed Asia ex-Japan All-Cap Stocks -0.11 0.15 -0.10 0.16 0.23 0.09 0.67 0.58 25 Japan All-Cap Stocks -0.12 0.06 -0.05 0.09 0.03 0.02 0.31 0.27 26 Global Emerging Markets Stocks -0.14 0.00 -0.20 0.02 0.07 -0.03 0	0.52 0.7
20 US Small-Cap Growth -0.03 0.01 -0.20 0.03 0.08 0.01 0.62 0.58 21 Developed Market ex-US All-Cap Stocks -0.09 0.12 -0.11 0.14 0.15 0.08 0.58 0.53 22 Canada All-Cap Stocks -0.08 0.08 -0.14 0.13 0.18 0.00 0.67 0.59 23 Europe All-Cap Stocks -0.03 0.12 -0.12 0.14 0.16 0.07 0.60 0.58 24 Developed Asia ex-Japan All-Cap Stocks -0.11 0.15 -0.10 0.16 0.23 0.09 0.67 0.58 25 Japan All-Cap Stocks -0.12 0.06 -0.05 0.09 0.03 0.02 0.31 0.27 26 Global Emerging Markets Stocks -0.14 0.00 -0.20 0.02 0.07 -0.03 0.70 0.59 27 Global REITs -0.12 0.22 -0.04 0.22 0.28 0.17 0.63 <td>0.49 0.7</td>	0.49 0.7
21 Developed Market ex-US All-Cap Stocks .0.09 0.12 -0.11 0.14 0.15 0.08 0.58 0.53 22 Canada All-Cap Stocks .0.08 0.08 -0.14 0.13 0.18 0.00 0.67 0.59 23 Europe All-Cap Stocks .0.03 0.12 -0.12 0.14 0.16 0.07 0.60 0.58 24 Developed Asia ex-Japan All-Cap Stocks .0.11 0.15 -0.10 0.16 0.23 0.09 0.67 0.58 25 Japan All-Cap Stocks .0.12 0.06 -0.05 0.09 0.03 0.02 0.31 0.27 26 Global Emerging Markets Stocks .0.14 0.00 -0.20 0.02 0.07 -0.03 0.70 0.59 27 Global REITs .0.12 0.22 .0.04 0.22 0.28 0.17 0.63 0.58	0.49 0.7
22 Canada All-Cap Stocks -0.08 0.08 -0.14 0.13 0.18 0.00 0.67 0.59 23 Europe All-Cap Stocks -0.03 0.12 -0.12 0.14 0.16 0.07 0.60 0.58 24 Developed Asia ex-Japan All-Cap Stocks -0.11 0.15 -0.10 0.16 0.23 0.09 0.67 0.58 25 Japan All-Cap Stocks -0.12 0.06 -0.05 0.09 0.03 0.02 0.31 0.27 26 Global Emerging Markets Stocks -0.14 0.00 -0.20 0.02 0.07 -0.03 0.70 0.59 27 Global REITs -0.12 0.22 -0.04 0.22 0.28 0.17 0.63 0.58	0.51 0.9
23 Europe Ali-Cap Stocks -0.03 0.12 -0.12 0.14 0.16 0.07 0.60 0.58 24 Developed Asia ex-Japan Ali-Cap Stocks -0.11 0.15 -0.10 0.16 0.23 0.09 0.67 0.58 25 Japan Ali-Cap Stocks -0.12 0.06 -0.05 0.09 0.03 0.02 0.31 0.27 26 Global Emerging Markets Stocks -0.14 0.00 -0.20 0.02 0.07 -0.03 0.70 0.59 27 Global REITs -0.12 0.22 -0.04 0.22 0.28 0.17 0.63 0.58	0.58 0.8
24 Developed Asia ex-Japan All-Cap Stocks -0.11 0.15 -0.10 0.16 0.23 0.09 0.67 0.58 25 Japan All-Cap Stocks -0.12 0.06 -0.05 0.09 0.03 0.02 0.31 0.27 26 Global Emerging Markets Stocks -0.14 0.00 -0.20 0.02 0.07 -0.03 0.70 0.59 27 Global REITs -0.12 0.22 -0.04 0.22 0.28 0.17 0.63 0.58	0.47 0.9
25 Japan All-Cap Stocks -0.12 0.06 -0.05 0.09 0.03 0.02 0.31 0.27 26 Global Emerging Markets Stocks -0.14 0.00 -0.20 0.02 0.07 -0.03 0.70 0.59 27 Global REITs -0.12 0.22 -0.04 0.22 0.28 0.17 0.63 0.58	0.62 0.7
26 Global Emerging Markets Stocks -0.14 0.00 -0.20 0.02 0.07 -0.03 0.70 0.59 27 Global REITs -0.12 0.22 -0.04 0.22 0.28 0.17 0.63 0.58	0.32 0.6
27 Global REITs -0.12 0.22 -0.04 0.22 0.28 0.17 0.63 0.58	0.65 0.7
	0.57 0.7
	0.25 0.3
29 Global Inflation-Linked Securities 0.00 0.64 0.44 0.69 0.51 0.47 0.32 0.31	0.36 0.1
30 US Inflation-Linked Securities -0.03 0.61 0.47 0.68 0.50 0.41 0.28 0.25	0.34 0.1
31 US Convertible Bonds All Qualities -0.04 0.14 -0.11 0.18 0.23 0.05 0.75 0.72	0.57 0.8
32 US Convertible Bonds Investment Grade 0.01 0.27 0.02 0.31 0.31 0.17 0.70 0.66	0.57 0.8
33 Euro Convertible Bonds All Qualities 0.05 0.17 -0.16 0.15 0.23 0.11 0.62 0.55	0.51 0.6
34 Broad Fund of Hedge Funds 0.08 0.12 -0.06 0.14 0.21 0.05 0.57 0.47	0.56 0.5
35 Relative-Value Arbitrage 0.05 0.08 -0.14 0.11 0.21 0.00 0.69 0.67	0.51 0.5
36 Event Driven 0.01 0.12 -0.13 0.13 0.21 0.05 0.78 0.72	0.61 0.7
37 Equity Long-Short 0.11 0.11 -0.08 0.12 0.15 0.04 0.59 0.52	0.53 0.7
38 Global Macro 0.05 0.34 0.22 0.29 0.27 0.35 0.35 0.25	0.42 0.3
39 Managed Futures 0.04 0.20 0.23 0.18 0.14 0.14 -0.11 -0.12	-0.02 -0.0
40 US Private Equity 0.10 -0.14 -0.24 -0.17 -0.08 -0.11 0.41 0.36	0.42 0.6
41 Global Private Real Estate 0.18 -0.06 -0.12 -0.07 -0.02 -0.03 0.21 0.23	0.15 0.3

and Carlon and State of the Carlon and Carlon State of the Carlon

		11	12	13	14	15	16	17	18	19	20
1	Cash (US dollar 3-month Libor)	0.03	0.04	0.02	0.04	-0.03	-0.05	0.00	-0.04	-0.06	-0.03
2	Global Investment-Grade Bonds	0.15	0.17	0.19	0.11	0.13	0.18	0.05	0.04	0.09	0.01
3	US Short-Duration Bonds	-0.08	-0.06	-0.05	-0.08	-0.13	-0.10	-0.15	-0.18	-0.15	-0.20
4	US Investment-Grade Bonds	0.17	0.19	0.20	0.14	0.16	0.20	0.09	0.07	0.11	0.03
5	US Municipal Bonds	0.19	0.19	0.21	0.15	0.21	0.25	0.14	0.12	0.16	0.08
6	Non-US Bonds (hedge to USD)	0.10	0.11	0.14	0.06	0.07	0.12	0.01	0.03	0.07	0.01
7	Global High Yield Bonds	0.66	0.63	0.62	0.60	0.69	0.67	0.61	0.66	0.65	0.62
8	US High Yield Bonds	0.61	0.58	0.57	0.55	0.65	0.64	0.58	0.62	0.63	0.58
9	Emerging Market Debt (in USD)	0.56	0.55	0.54	0.50	0.56	0.52	0.50	0.52	0.49	0.49
10	Global Developed-Market Stocks	0.89	0.88	0.82	0.85	0.86	0.79	0.82	0.78	0.73	0.77
11	US All-Cap Stocks	1.00	0.99	0.93	0.96	0.96	0.89	0.90	0.85	0.81	0.83
12	US Large-Cap Stocks	0.99	1.00	0.93	0.95	0.92	0.87	0.85	0.79	0.76	0.77
13	US Large-Cap Value	0.93	0.93	1.00	0.78	0.89	0.95	0.71	0.74	0.81	0.65
14	US Large-Cap Growth	0.96	0.95	0.78	1.00	0.89	0.74	0.93	0.79	0.67	0.82
15	US Mid-Cap Stocks	0.96	0.92	0.89	0.89	1.00	0.93	0.93	0.92	0.89	0.89
16	US Mid-Cap Value	0.89	0.87	0.95	0.74	0.93	1.00	0.73	0.81	0.90	0.71
17	US Mid-Cap Growth	0.90	0.85	0.71	0.93	0.93	0.73	1.00	0.90	0.75	0.94
18	US Small-Cap Stocks	0.85	0.79	0.74	0.79	0.92	0.81	0.90	1.00	0.94	0.97
19	US Small-Cap Value	0.81	0.76	0.81	0.67	0.89	0.90	0.75	0.94	1.00	0.83
20	US Small-Cap Growth	0.83	0.77	0.65	0.82	0.89	0.71	0.94	0.97	0.83	1.00
21	Developed Market ex-US All-Cap Stocks	0.74	0.73	0.70	0.69	0.73	0.68	0.68	0.65	0.62	0.63
22	Canada Ali-Cap Stocks	0.77	0.75	0.70	0.73	0.80	0.71	0.77	0.73	0.67	0.73
23	Europe All-Cap Stocks	0.79	0.78	0.75	0.73	0.78	0.73	0.72	0.70	0.68	0.67
24	Developed Asia ex-Japan All-Cap Stocks	0.70	0.69	0.66	0.65	0.72	0.66	0.66	0.65	0.62	0.63
25	Japan All-Cap Stocks	0.40	0.39	0.34	0.40	0.39	0.33	0.40	0.36	0.29	0.38
26	Global Emerging Markets Stocks	0.69	0.67	0.62	0.65	0.71	0.64	0.68	0.68	0.62	0.67
27	Global REITs	0.66	0.64	0.69	0.55	0.70	0.73	0.56	0.63	0.69	0.56
28	Commodities	0.25	0.24	0.26	0.22	0.29	0.28	0.26	0.22	0.20	0.22
29	Global Inflation-Linked Securities	0.18	0.18	0.18	0.15	0.20	0.22	0.15	0.12	0.14	0.10
30	US Inflation-Linked Securities	0.10	0.10	0.13	0.07	0.12	0.16	0.06	0.03	0.07	0.01
31	US Convertible Bonds All Qualities	0.86	0.82	0.72	0.85	0.90	0.75	0.92	0.86	0.75	0.88
						~ - ~ ~	~ ~ ~ ~	707 1 407 700	No. 5 and Art	W 1 F W	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

0.87

0.65

0.54

0.52

0.79

0.78

0.33

-0.10

0.70

0.31

0.85

0.64

0.51

0.49

0.75

0.74

0.31

-0.10

0.71

0.31

0.80

0.54

0.50

0.72

0.63

0.28

-0.10

0.40

0.83

0.66

0.54

0.46

0.73

0.78

0.31

-0.10

0.69

0.21

0.87

0.64

0.58

0.56

0.83

0.81

0.35

-0.10

0.66

0.31

0.80

0.53

0.44

0.54

0.74

0.64

0.27

-0.10

0.56

0.38

0.83

0.65

0.62

0.50

0.80

0.86

0.35

-0.10

0.68

0.19

0.79

0.58

0.55

0.83

0.82

0.36

0.62

0.30

0.75

0.49

0.46

0.54

0.77

0.68

0.30

-0.12

0.50

0.37

0.77

0.59

0.60

0.52

0.81

0.85

0.36

-0.12

0.65

0.22

Some Avidation of the Benediction of the Some of the Some Society of the Society

US Convertible Bonds Investment Grade

Euro Convertible Bonds All Qualities

Broad Fund of Hedge Funds

Relative-Value Arbitrage

Event Oriven

Global Macro

Equity Long-Short

Managed Futures

US Private Equity

Global Private Real Estate

32

33

34

35

36

37

38

39

40

41

Table 2: Correlation Matrix (continued)

STRATEGIC ASSET ALLOCATION

Table 2	2:	Corre	lation	Matrix	(continued)
---------	----	-------	--------	--------	-------------

		21	22	23	24	25	26	27	28	29	30
1	Cash (US dollar 3-month Libor)	-0.09	-0.08	-0.03	-0.11	-0.12	-0.14	-0.12	-0.05	0.00	-0.03
2	Global Investment-Grade Bonds	0.12	0.08	0.12	0.15	0.06	0.00	0.22	-0.06	0.64	0.61
3	US Short-Duration Bonds	-0.11	-0.14	-0.12	-0.10	-0.05	-0.20	-0.04	-0.14	0.44	0.47
4	US Investment-Grade Bonds	0.14	0.13	0.14	0.16	0.09	0.02	0.22	0.00	0.69	0.68
5	US Municipal Bonds	0.15	0.18	0.16	0.23	0.03	0.07	0.28	-0.03	0.51	0.50
6	Non-US Bonds (hedge to USD)	0.08	0.00	0.07	0.09	0.02	-0.03	0.17	-0.17	0.47	0.41
7	Global High Yield Bonds	0.58	0.67	0.60	0.67	0.31	0.70	0.63	0.32	0.32	0.28
8	US High Yield Bonds	0.53	0.59	0.58	0.58	0.27	0.59	0.58	0.29	0.31	0.25
9	Emerging Market Debt (in USD)	0.51	0.58	0.47	0.62	0.32	0.65	0.57	0.25	0.36	0.34
10	Global Developed-Market Stocks	0.96	0.80	0.91	0.78	0.69	0.75	0.78	0.33	0.19	0.11
11	US All-Cap Stocks	0.74	0.77	0.79	0.70	0.40	0.69	0.66	0.25	0.18	0.10
12	US Large-Cap Stocks	0.73	0.75	0.78	0.69	0.39	0.67	0.64	0.24	0.18	0.10
13	US Large-Cap Value	0.70	0.70	0.75	0.66	0.34	0.62	0.69	0.26	0.18	0.13
14	US Large-Cap Growth	0.69	0.73	0.73	0.65	0.40	0.65	0.55	0.22	0.15	0.07
15	US Mid-Cap Stocks	0.73	0.80	0.78	0.72	0.39	0.71	0.70	0.29	0.20	0.12
16	US Mid-Cap Value	0.68	0.71	0.73	0.66	0.33	0.64	0.73	0.28	0.22	0.16
17	US Mid-Cap Growth	0.68	0.77	0.72	0.66	0.40	0.68	0.56	0.26	0.15	0.06
18	US Small-Cap Stocks	0.65	0.73	0.70	0.65	0.36	0.68	0.63	0.22	0.12	0.03
19	US Small-Cap Value	0.62	0.67	0.68	0.62	0.29	0.62	0.69	0.20	0.14	0.07
20	US Small-Cap Growth	0.63	0.73	0.67	0.63	0.38	0.67	0.56	0.22	0.10	0.01
21	Developed Market ex-US All-Cap Stocks	1.00	0.74	0.91	0.75	0.79	0.72	0.78	0.36	0.19	0.11
22	Canada All-Cap Stocks	0.74	1.00	0.73	0.77	0.44	0.74	0.68	0.52	0.24	0.20
23	Europe All-Cap Stocks	0.91	0.73	1.00	0.74	0.52	0.71	0.73	0.32	0.18	0.09
24	Developed Asia ex-Japan All-Cap Stocks	0.75	0.77	0.74	1.00	0.47	0.84	0.82	0.41	0.20	0.17
25	Japan All-Cap Stocks	0.79	0.44	0.52	0.47	1.00	0.47	0.55	0.27	0.14	0.10
26	Global Emerging Markets Stocks	0.72	0.74	0.71	0.84	0.47	1.00	0.69	0.39	0.13	0.10
27	Global REITs	0.78	0.68	0.73	0.82	0.55	0.69	1.00	0.35	0.29	0.24
28	Commodities	0.36	0.52	0.32	0.41	0.27	0.39	0.35	1.00	0.21	0.28
29	Global Inflation-Linked Securities	0.19	0.24	0.18	0.20	0.14	0.13	0.29	0.21	1.00	0.91
30	US Inflation-Linked Securities	0.11	0.20	0.09	0.17	0.10	0.10	0.24	0.28	0.91	1.00
31	US Convertible Bonds All Qualities	0.69	0.80	0.74	0.69	0.40	0.72	0.60	0.32	0.25	0.18
32	US Convertible Bonds Investment Grade	0.68	0.75	0.71	0.67	0.39	0.66	0.64	0.29	0.31	0.25
33	Euro Convertible Bonds All Qualities	0.66	0.64	0.70	0.55	0.35	0.59	0.46	0.20	0.20	0.09
34	Broad Fund of Hedge Funds	0.52	0.68	0.55	0.61	0.32	0.66	0.45	0.37	0.22	0.15
35	Relative-Value Arbitrage	0.50	0.60	0.52	0.53	0.29	0.54	0.51	0.45	0.20	0.21
36	Event Driven	0.66	0.76	0.71	0.69	0.38	0.72	0.60	0.34	0.18	0.12
37	Equity Long-Short	0.65	0.76	0.68	0.67	0.42	0.68	0.53	0.36	0.16	0.08
38	Global Macro	0.34	0.42	0.33	0.43	0.21	0.42	0.33	0.22	0.21	0.16
39	Managed Futures	-0.07	0.00	-0.10	-0.02	-0.03	-0.03	-0.05	0.10	0.14	0.14
40	US Private Equity	0.58	0.62	0.50	0.63	0.33	0.46	0.45	0.18	0.02	-0.19
41	Global Private Real Estate	0.29	0.34	0.22	0.31	0.12	0.15	0.40	0.32	0.03	0.00

where W is provided as when the experimental consequence to $\mathcal{M}_{\rm sol}$ the subsection of the third subsection of the $\mathcal{M}_{\rm sol}$

		31	32	33	34	35	36	37	38	39	40	41
1	Cash (US dollar 3-month Libor)	-0.04	0.01	0.05	0.08	0.05	0.01	0.11	0.05	0.04	0.10	0.18
2	Global Investment-Grade Bonds	0.14	0.27	0.17	0.12	0.08	0.12	0.11	0.34	0.20	-0.14	-0.06
3	US Short-Duration Bonds	-0.11	0.02	-0.16	-0.06	-0.14	-0.13	-0.08	0.22	0.23	-0.24	-0.12
4	US Investment-Grade Bonds	0.18	0.31	0.15	0.14	0.11	0.13	0.12	0.29	0.18	-0.17	-0.07
5	US Municipal Bonds	0.23	0.31	0.23	0.21	0.21	0.21	0.15	0.27	0.14	-0.08	-0.02
6	Non-US Bonds (hedge to USD)	0.05	0.17	0.11	0.05	0.00	0.05	0.04	0.35	0.14	-0.11	-0.03
7	Global High Yield Bonds	0.75	0.70	0.62	0.57	0.69	0.78	0.59	0.35	-0.11	0.41	0.2
8	US High Yield Bonds	0.72	0.66	0.55	0.47	0.67	0.72	0.52	0.25	-0.12	0.36	0.23
9	Emerging Market Debt (in USD)	0.57	0.57	0.51	0.56	0.51	0.61	0.53	0.42	-0.02	0.42	0.1
10	Global Developed-Market Stocks	0.81	0.80	0.68	0.57	0.54	0.76	0.76	0.35	-0.09	0.66	0.31
11	US All-Cap Stocks	0.86	0.87	0.65	0.54	0.52	0.79	0.78	0.33	-0.10	0.70	0.31
12	US Large-Cap Stocks	0.82	0.85	0.64	0.51	0.49	0.75	0.74	0.31	-0.10	0.71	0.3
13	US Large-Cap Value	0.72	0.80	0.54	0.42	0.50	0.72	0.63	0.28	-0.10	0.63	0.40
[4	US Large-Cap Growth	0.85	0.83	0.66	0.54	0.46	0.73	0.78	0.31	-0.10	0.69	0.2
15	US Mid-Cap Stocks	0.90	0.87	0.64	0.58	0.56	0.83	0.81	0.35	-0.10	0.66	0.3
16	US Mid-Cap Value	0.75	0.80	0.53	0.44	0.54	0.74	0.64	0.27	-0.10	0.56	0.38
7	US Mid-Cap Growth	0.92	0.83	0.65	0.62	0.50	0.80	0.86	0.35	-0.10	0.68	0.1
8	US Small-Cap Stocks	0.86	0.79	0.58	0.58	0.55	0.83	0.82	0.36	-0.12	0.62	0.3
9	US Small-Cap Value	0.75	0.75	0.49	0.46	0.54	0.77	0.68	0.30	-0.12	0.50	0.3
20	US Small-Cap Growth	0.88	0.77	0.59	0.60	0.52	0.81	0.85	0.36	-0.12	0.65	0.2
21	Developed Market ex-US All-Cap Stocks	0.69	0.68	0.66	0.52	0.50	0.66	0.65	0.34	-0.07	0.58	0.2
22	Canada All-Cap Stocks	0.80	0.75	0.64	0.68	0.60	0.76	0.76	0.42	0.00	0.63	0.3
23	Europe All-Cap Stocks	0.74	0.71	0.70	0.55	0.52	0.71	0.68	0.33	-0.10	0.62	0.3
24	Developed Asia ex-Japan All-Cap Stocks	0.69	0.67	0.55	0.61	0.53	0.69	0.67	0.43	-0.02	0.50	0.2
25	Japan All-Cap Stocks	0.40	0.39	0.35	0.32	0.29	0.38	0.42	0.21	-0.03	0.33	0.1
26	Global Emerging Markets Stocks	0.72	0.66	0.59	0.66	0.54	0.72	0.68	0.42	-0.03	0.46	0.1
27	Global REITs	0.60	0.64	0.46	0.45	0.51	0.60	0.53	0.33	-0.05	0.45	0.4
28	Commodities	0.32	0.29	0.20	0.37	0.45	0.34	0.36	0.22	0.10	0.18	0.3
29	Global Inflation-Linked Securities	0.25	0.31	0.20	0.22	0.20	0.18	0.16	0.21	0.14	0.02	0.0
30	US Inflation-Linked Securities	0.18	0.25	0.09	0.15	0.21	0.12	0.08	0.16	0.14	-0.19	0.0
31	US Convertible Bonds All Qualities	1.00	0.90	0.72	0.69	0.67	0.86	0.86	0.40	-0.09	0.64	0.2
32	US Convertible Bonds Investment Grade	0.90	1.00	0.66	0.58	0.63	0.80	0.77	0.37	-0.09	0.59	0.2
3	Euro Convertible Bonds All Qualities	0.72	0.66	1.00	0.71	0.62	0.67	0.68	0.40	0.00	0.56	0.19
)4	Broad Fund of Hedge Funds	0.69	0.58	0.71	1.00	0.58	0.73	0.79	0.67	0.29	0.52	0.2
5	Relative-Value Arbitrage	0.67	0.63	0.62	0.58	1.00	0.72	0.62	0.26	-0.15	0.37	0.3
6	Event Driven	0.86	0.80	0.67	0.73	0.72	1.00	0.83	0.47	-0.05	0.58	0.3
7	Equity Long-Short	0.86	0.77	0.68	0.79	0.62	0.83	1.00	0.53	0.03	0.61	0.20
8	Global Macro	0.40	0.37	0.40	0.67	0.26	0.47	0.53	1.00	0.45	0.22	0.0
9	Managed Futures	-0.09	-0.09	0.00	0.29	-0.15	-0.05	0.03	0.45	1.00	-0.14	-0.0
			ps 40.00		, pag , pag , pag ,		0.50	0.01	0.00	O 7 8	1.00	0.0

0.52

0.25

0.56

0.19

0.37

0.32

0.58

0.35

0.61

0.26

0.22

0.04

-0.14

-0.07

1.00

0.30

0.30

1.00

The Company of the Co

0.64

0.24

0.59

0.27

40

41

US Private Equity

Global Private Real Estate

Alternative Investments, Strategies Descriptions

The Relative Value Arbitrage & Event Driven category includes strategies that typically display lower correlations to equities than Equity Long/Short and lower volatility than Equity Long/Short, Global Macro and Managed Futures. The strategies included in the grouping are Equity Market Neutral. Statistical Arbitrage, Fixed Income Arbitrage, Convertible Arbitrage, Merger Arbitrage, Relative Value Arbitrage and Distressed Securities and may generally be described as follows:

- Equity Market Neutral investing seeks to profit by exploiting pricing inefficiencies between related equity securities, neutralizing exposure to market risk by combining long and short positions.
- Fixed Income Arbitrage is a market-neutral hedging strategy that seeks to profit by exploiting pricing inefficiencies between related fixed income securities while neutralizing exposure to interest rate risk.
- Convertible Arbitrage involves purchasing a portfolio of convertible securities, generally convertible bonds, and hedging a portion of the equity risk by selling short the underlying common stock.
- · Merger Arbitrage, sometimes called Risk Arbitrage, involves investment in event-driven situations such as leveraged buy-outs, mergers and hostile takeovers.
- Relative Value Arbitrage attempts to take advantage of relative pricing discrepancies between instruments including equities, debt. options and futures. Managers may use mathematical, fundamental or technical analysis to determine misvaluations.
- Distressed Securities strategies invest in, and may sell short, the securities of companies where the security's price has been, or is expected to be, affected by a distressed situation. This may involve reorganizations, bankruptcies, distressed sales and other corporate restructurings.
- The Equity Long/Short category represents strategies that are typically both long and short equities, but on average display a significant net long market exposure. As a
 result, Equity Long/Short tends to be highly correlated with the equity markets in which they operate
- The Global Macro & Managed Futures represents strategies that tend to display higher volatility, with varying degrees of exposure, both long and short, to various currencies, fixed income, equity, commodity and other markets.

Important Morgan Stanley Smith Barney Disclosures

This material was prepared by sales, trading or other nonresearch personnel of Morgan Stanley Smith Barney LLC (together with its affiliates, hereinafter "Morgan Stanley Smith Barney"). Morgan Stanley Smith Barney was formed pursuant to a Joint Venture between Citigroup Inc. and Morgan Stanley & Co. Incorporated (herein "Morgan Stanley"). This material was not produced by a Morgan Stanley research analyst or a Citigroup Global Markets Inc. or any of its affiliates (herein "Citigroup") research analyst, although it may refer to a Morgan Stanley or Citigroup research analyst or research report. Unless otherwise indicated, these views (if any) are the author's (if any author is noted) and may differ from those of the Morgan Stanley or Citigroup fixed income or equity research departments or others in the firms.

This material should not be viewed as advice or recommendations with respect to asset allocation or any particular investment. This information is not intended to, and should not, form a primary basis for any investment decisions that you may make. Morgan Stanley Smith Barney is not acting as a fiduciary under either the Employee Retirement Income Security Act of 1974, as amended ("ERISA") or under section 4975 of the Internal revenue Code of 1986 as amended ("Code") in providing this material.

This material was prepared by or in conjunction with Morgan Stanley Smith Barney trading desks that may deal as principal in or own or act as market maker or liquidity provider for the securities/instruments (or related derivatives) mentioned herein and may trade them in ways different from those discussed in this material. The trading desk may have accumulated a position in the subject securities/instruments based on the information contained herein. Trading desk materials are not independent of the proprietary interests of Morgan Stanley Smith Barney, which may conflict with your interests. Morgan Stanley Smith Barney may also perform or seek to perform investment banking services for the issuers of the securities and instruments mentioned herein.

The author(s) (if any authors are noted) principally responsible for the preparation of this material receive compensation based upon various factors, including quality and accuracy of their work, firm revenues (including trading and capital markets revenues), client feedback and competitive factors. Morgan Stanley Smith Barney is involved in many businesses that may relate to companies, securities or instruments mentioned in this material. These businesses include market making and specialized trading, risk arbitrage and other proprietary trading, fund management, investment services and investment banking.

This material has been prepared for informational purposes only and is not an offer to buy or sell or a solicitation of any offer to buy or sell any security/instrument, or to participate in any trading strategy. Any such offer would be made only after a prospective investor had completed its own independent investigation of the securities, instruments or transactions and received all information it required to make its own investment decision, including, where applicable, a review of any offering circular or memorandum describing such security or instrument. That information would contain material information not contained herein and to which prospective participants are referred. This material is based on public information as of the specified date and may be stale thereafter. We have no obligation to tell you when information herein may change. We make no representation or warranty with respect to the accuracy or completeness of this material. Morgan Stanley Smith Barney has no obligation to provide updated information on the securities/instruments mentioned herein.

Certain securities referred to in this material may not have been registered under the US Securities Act of 1933, as amended, and if not, may not be offered or sold absent an exemption therefrom. Recipients are required to comply with any legal or contractual restrictions on their purchase, holding, safe, exercise of rights or performance of obligations under any securities/instruments transaction.

The securities/instruments discussed in this material may not be suitable for all investors. The appropriateness of a particular investment or strategy will depend on an investor's individual circumstances and objectives. This material does not provide individually tailored investment advice or offer tax, regulatory, accounting or legal advice. This material was not intended or written to be used, and it cannot be used by any taxpayer, for the purpose of avoiding penalties that may be imposed on the taxpayer under US federal tax laws. Prior to entering into any proposed transaction, recipients should determine, in consultation with their own investment, legal, tax, regulatory and accounting advisors, the economic risks and merits, as well as the legal, tax, regulatory and accounting characteristics and consequences, of the transaction. The value of and income from investments may vary because of changes in interest rates, foreign exchange rates, default rates, prepayment rates, securities/instruments prices, marker indexes, operational or fluancial conditions of companies and other issuers or other factors. There may be time limitations on the exercise of options or other rights in securities/instruments transactions. Past performance is not necessarily a guide to future performance. Estimates of future performance are based on assumptions that may not be realized. Actual events may differ from those assumed and changes to any assumptions may have a material impact on any projections or estimates. Other events not laken into account may occur and may significantly affect the projections or estimates. Certain assumptions may have been made for modeling purposes only to simplify the presentation and/or calculation of any projections or projections will be realized or that actual returns or performance results will not materially differ from those estimated herein. Some of the information contained in this document may be aggregated data of transactions in securities or other financial instruments executed by Morg

Investing in stocks entails the risks of market volatility. The value of all types of stocks may increase or decrease over varying time periods. To the extent the investments depicted herein represent international securities, you should be aware that there may be additional risks associated with international investing, including foreign economic, political, monetary and/or legal factors, changing currency exchange rates, foreign taxes and differences in financial and accounting standards. These risks may be magnified in emerging markets. International investing may not be for everyone. Small-capitalization companies may lack the financial resources, product diversification and competitive strengths of larger companies. In addition, the securities of small-capitalization companies may not trade as readily as, and be subject to higher volatility than, those of larger, more established companies. Portfolios that invest a large percentage of assets in only one industry sector (or in only a few sectors) are more vulnerable to price fluctuation portfolios that diversify among a broad range of sectors. With respect to fixed income securities, please note that in general, as prevailing interest rates rise. Exed income securities prices will fall. High yield bonds are subject to additional risks such as increased risk of default and greater volatility because of the lower credit quality of the issues. With respect to real estate investments, property values can fall due to environmental, economic or other reasons, and a change in interest rates can negatively impact the performance of real estate companies.

Asset allocation does not assure a profit or protect against loss in declining financial markets.

Investing in commodities entails significant risks. Commodity prices may be affected by a variety of factors at any time, including but not limited to, (i) changes in supply and demand relationships, (ii) governmental programs and policies, (iii) national and international political and economic events, war and terrorist events. (iv) changes in interest and exchange rates, (v) trading activities in commodities and related contracts. (vi) pestilence, technological change and weather and (vii) the price volatility of a commodity. In addition, the commodities markets are subject to temporary distortions or other disruptions due to various factors, including lack of liquidity, participation of speculators and government intervention.

The initial interest rate on an inflation-linked security may be lower than that of a fixed-rate security of the same maturity because investors expect to receive additional income due to future increases in CPI. However, there can be no assurance that these increases in CPI will occur. Some inflation-linked securities may be subject to call risk.

Security prices will fluctuate. The value of your investment may fall over time.

Equity securities' prices may fluctuate in response to specific situations for each company, industry, market conditions and general economic environment.

Common stocks do not assure dividend payments. Dividends are paid only when declared by an issuer's board of directors, and the amount of any dividend may vary over time.

Growth investing does not guarantee a profit or eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth expectations.

Value investing involves the risk that the market may not recognize that securities are undervalued and they may not appreciate as anticipated.

Interest on municipal bonds is generally exempt from federal income tax; however, some bonds may be subject to the alternative minimum tax (AMT). Typically, state tax-exemption applies if 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.

Treasury Inflation Protection Securities' (TIPS) coupon payments and principal are increased to compensate for inflation by tracking the consumer price index (CPI). While the real rate of return is guaranteed, TIPS tend to offer a low return. There is no guarantee that investors will receive par if TIPS are sold prior to maturity. Because the return of TIPS is linked to inflation, TIPS may significantly underperform versus conventional US Treasuries in times of low inflation.

REITs' investing risks are similar to those associated with direct investments in real estate; lack of liquidity; limited diversification; and sensitivity to economic factors such as interest rate changes and economic recessions. Bonds are subject to interest rate risk. When interest rates rise, bond prices fall; generally, the longer a bond's maturity, the more sensitive it tends to be to this risk. Bonds may also be subject to call risk, which is the risk that the issuer will redeem the debt at its option, fully or partially, before the scheduled maturity date. The market value of debt instruments may fluctuate, and proceeds from sales prior to maturity may be more or less than the amount originally invested or the maturity value due to changes in market conditions or changes in the credit quality of the issuer.

Because of their narrow focus, sector investments tend to be more volatile than investments that diversify across many sectors and companies.

Private funds are highly illiquid and are only suitable for long-term investors willing to forgo liquidity and put capital at risk for an indefinite period of time. Private funds often engage in leverage and other investment practices that may increase the risk of investment loss. Private funds may involve complex tax structures and there may be delays in distributing important tax information. Private funds typically have significantly higher fees and expenses than other investment vehicles. Private funds are not subject to the same regulatory requirements as mutual funds and are not required to provide periodic pricing or valuation information to investors.

Managed futures involve a high degree of risk, often involve leveraging and other speculative investment practices that may increase the risk of investment loss, can be highly illiquid, are not required to provide periodic pricing or valuation information to investors, may involve complex tax structures and delays in distributing important tax information, are not subject to the same regulatory requirements as mutual funds, often charge high fees which may offset any trading profits, and in many cases the underlying investments are not transparent and are known only to the investment manager.

The commodities markets may fluctuate widely based on a variety of factors including, but not limited to, changes in supply and demand relationships; governmental programs and policies; national and international political and economic events, war and terrorist events; changes in interest and exchange rates; trading activities in commodities and related contracts; pestilence, technological change and weather; and the price volatility of a commodity.

As further described in the offering documents, an investment in alternative investments can be highly illiquid, is speculative and not suitable for all investors. Investing in alternative investments is only intended for experienced and sophisticated investors who are willing to bear the high economic risks associated with such an investment. Investors should carefully review and consider potential risks before investing. Certain of these risks may include:

- · loss of all or a substantial portion of the investment due to leveraging, short-selling or other speculative practices:
- lack of liquidity in that there may be no secondary market for the fund and none is expected to develop:
- volatility of returns-
- restrictions on transferring interests in the Fund.
- potential lack of diversification and resulting higher risk due to concentration of trading authority when a single advisor is utilized:
- absence of information regarding valuations and pricing:
- complex tax structures and delays in tax reporting;
- · less regulation and higher fees than mutual funds; and
- · advisor risk.

Futures contracts are leveraged and involve inherent risks. Futures transactions are not appropriate for every investor and clients should refrain from investing in futures unless they fully understand the terms and risks, including the extent of the potential risk of loss.

Morgan Stanley Smith Barney LLC and its affiliates do not provide tax of legal advice. To the extent that this material or any attachment concerns tax matters, it is not intended to be used and cannot be used by a taxpayer for the purpose of avoiding penalties that may be imposed by law. Any such taxpayer should seek advice based on the taxpayer's particular circumstances from an independent tax advisor.

The trademarks and service marks contained herein are the property of their respective owners. Third-party data providers make no warranties or representations of any kind relating to the accuracy, completeness or timeliness of the data they provide and shall not have liability for any damages of any kind relating to such data.

This material may not be sold or redistributed without the prior written consent of Morgan Stanley Smith Barney.

Morgan Stanley Smith Barney LLC is a registered broker-dealer, not a bank. Unless otherwise specifically disclosed to you in writing, investments and services offered through Morgan Stanley Smith Barney LLC, member SIPC, are not insured by the FDIC, are not deposits or other obligations of, or guaranteed by, banks and involve investment risks, including possible loss of principal amount invested.

Investments and services offered through Morgan Stanley Smith Barney LLC, member SPC. Outside of the United States, investments and services are offered through other Morgan Stanley regulated entities. For more information, please refer to your Financial Advisor/Investment Representative.