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# The Rise of Factor Investing for Institutions

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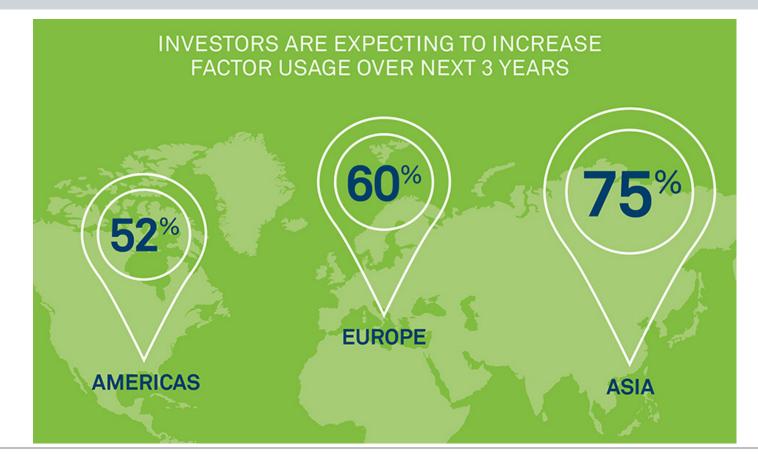
August 2016, 4<sup>°</sup> Congreso de Asofiduciarias, Cartagena

# With these insights, how are institutions around the world using factors?



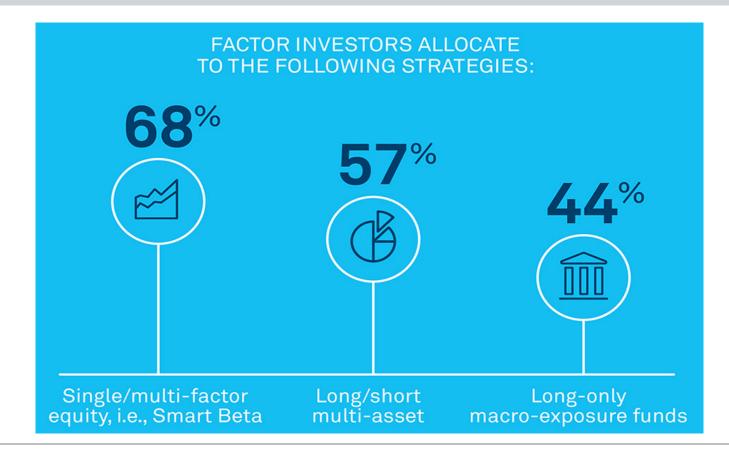
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# Is it a global change? Yes...





## So, what factor strategies are most common?





The challenge: Factor cyclicality

# What are the most common, investable factors?



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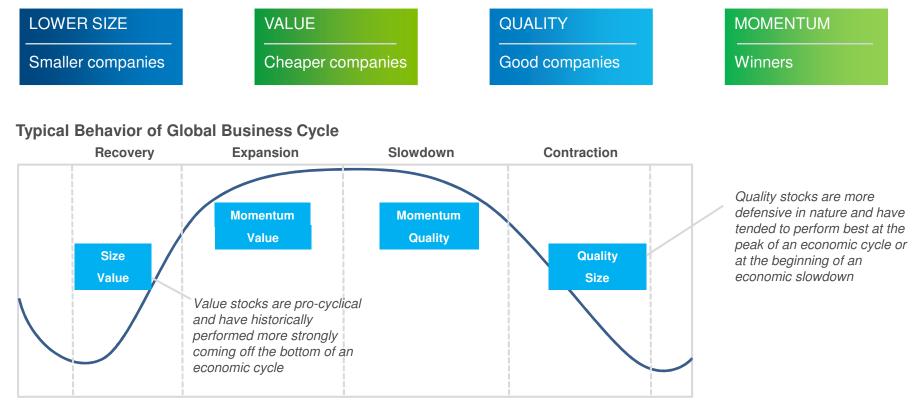
# Factors can help manage risk and return objectives



Based on Historical Performance

FOR PROFESSIONAL CLIENTS / QUALIFIED INVESTORS ONLY

## The cyclical nature of risk factors



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#### Deep dive into economic regime

Due to different economic rationales that drive factor performance, individual factors have tended to do well at different times

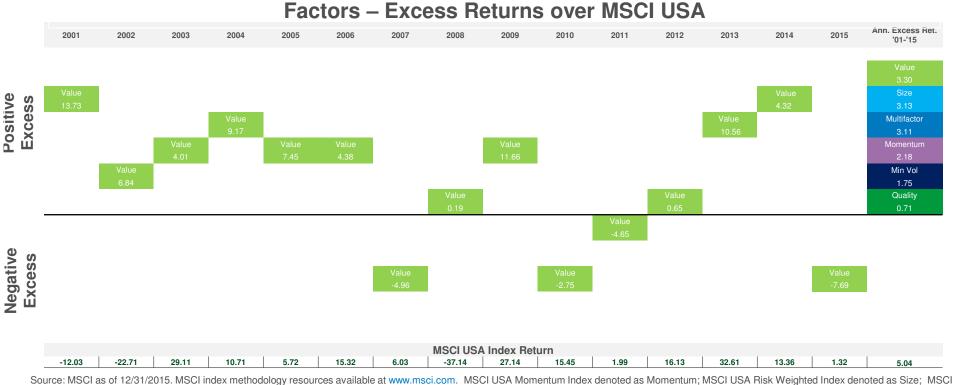


- Contraction 2007 2009: Quality outperformed the broad index, on average, by 0.3% each month as investors looked to financially healthy companies for more stable returns during the economic downturn.
- Recovery in 2009: Size outperformed the broad index, on average, by 0.3% each month when the economy accelerated and smaller, high-growth companies pushed ahead their larger counterparts.

Expansion 2010 – 2016: Momentum outperformed the broad index, on average, by 0.2% each month as a low probability of recession means Source: BlackBock, Slowdown is Low Recession Probability, Growth Decelerating; Contraction is High Recession Probability, Growth Decelerating; Recovery is High Recession Probability, Growth Accelerating; Contraction is High Recession Probability, Growth Decelerating; Contraction is High Recession Probability, Growth Decelerating; Contraction is High Recession Probability, Growth Decelerating; Recovery is High Recession Probability, Growth Accelerating; Contraction is High Recession Probability, Growth Accelerating; Contraction is High Recession Probability, Growth Accelerating; Recovery is High Recession Probability, Growth Accelerating; Contraction is High Recession Probability, Growth Accelerating; Expansion is Low Recession Probability, Growth Accelerating; Quality corresponds to the MSCI USA Sector Neutral Quality Index, Momentum Corresponds to the MSCI USA Momentum Index, Size corresponds to the MSCI USA Risk Weighted Index, and Broad Index corresponds to the MSCI USA Index.

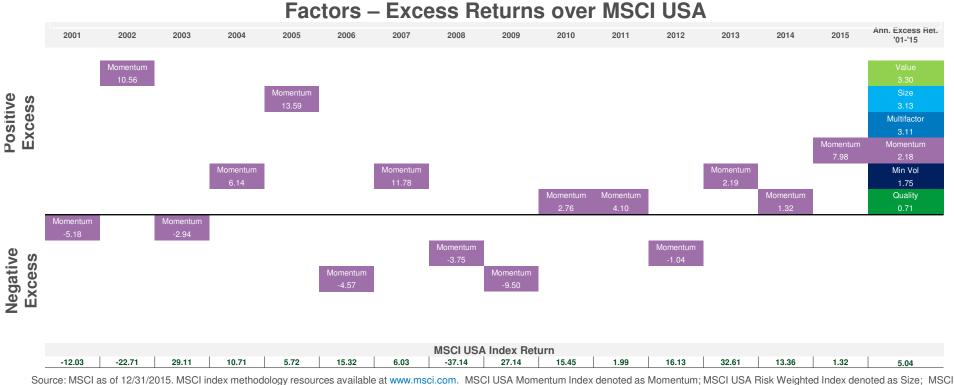
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#### The cyclical nature of factors



Source: MSCI as of 12/31/2015. MSCI index methodology resources available at <u>www.msci.com</u>. MSCI USA Momentum Index denoted as Momentum; MSCI USA Risk Weighted Index denoted as Size; MSCI USA Enhanced Value Index denoted as Value; MSCI Sector Neutral Quality Index denoted as Quality; MSCI Minimum Volatility Index denoted as Minemtum Volatility Index denoted as Minemtum; MSCI USA DMF Index denoted as Nultifactor. Index returns are for illustrative purposes. Index performance returns do not reflect management fees, transactions costs or expenses. Indexes are unmanaged and one cannot invest directly in an index. Data for time periods prior to the index inception date is hypothetical and is provided for informational purposes only to indicate historical performance had the index been available over the relevant time period. The information above includes back-tested data. For additional information, see "Index Disclosures" slides located in the Appendix. It is not possible to directly invest in an unmanaged index. It is not possible to directly invest in an unmanaged index. 10 MSCI USA Mise Mediate Context and the index been available over the relevant time period. The information above includes back-tested data. For additional information, see "Index Disclosures" slides located in the Appendix. It is not possible to directly invest in an unmanaged index. 10

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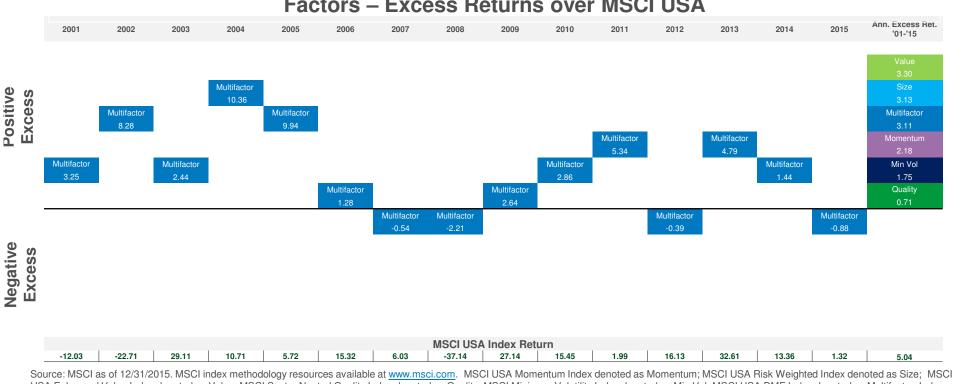
#### The cyclical nature of factors

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	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Ann. Excess Ret. '01-'15
		Momentum														Value
e s		10.56														3.30
	Value	Size		Multifactor	Momentum						Min Vol					Size
S S	13.73	8.56		10.36	13.59			Min Vol			10.88		Malua	4.32		3.13
Positive Excess	Size 11.69	Multifactor 8.28		Value 9.17	Multifactor			-			Quality 5.49		Value 10.56	Min Vol 3.17		Multifactor 3.11
ö X	Min Vol	8.28 Min Vol	Value	9.17 Size	9.94 Value	Value		11.48 Quality	Value	Size	5.49 Multifactor		Multifactor	3.17 Size	Momentum	3.11 Momentum
ር ጠ	4.21	7.40	4.01	7.14		4.38		5.89	11.66	3.60	5.34		4.79	2.61	7.98	2.18
	Multifactor	Value	Multifactor	Momentum	Size	Size	Momentum	Size	Size	Multifactor	Size		Momentum	Multifactor	Min Vol	Min Vol
	3.25	6.84	2.44	6.14	1.96	2.07	11.78	3.14	4.17	2.86	4.31		2.19	1.44	4.33	1.75
	Quality	Quality	Size	Min Vol	Min Vol	Multifactor	Quality	Value	Multifactor	Momentum	Momentum	Value	Quality	Momentum	Quality	Quality
	1.71	1.48	0.70	3.80	0.90	1.28	4.04	0.19	2.64	2.76	4.10	0.65	1.69	1.32	3.29	0.71
	Momentum		Momentum	Quality	Quality	Min Vol	Multifactor	Multifactor	Quality	Min Vol	Value	Multifactor	Size	Quality	Multifactor	0111
	-5.18		-2.94	-2.04	-0.30	-0.36	-0.54	-2.21	-2.20	-0.75	-4.65	-0.39	-1.07	-2.63	-0.88	
		I	Quality			Quality	Min Vol	Momentum	Min Vol	Quality		Momentum	Min Vol		Size	
Negative Excess			-5.33			-2.55	-1.72	-3.75	-8.79	-1.25		-1.04	-7.28		-0.88	
legative Excess			Min Vol			Momentum	Value		Momentum	Value		Size				
c a			-9.13			-4.57			-9.50			-1.09				
ы, е			u	•			Size					Quality				
Ζ "							-5.08					-3.36				
												Min Vol				
												-4.95				
		MSCI USA Index Return														
	-12.03	-22.71	29.11	10.71	5.72	15.32	6.03	-37.14	27.14	15.45	1.99	16.13	32.61	13.36	1.32	5.04

Factors – Excess Returns over MSCI USA

Source: MSCI as of 12/31/2015. MSCI index methodology resources available at <u>www.msci.com</u>. MSCI USA Momentum Index denoted as Momentum; MSCI USA Risk Weighted Index denoted as Size; MSCI USA Enhanced Value Index denoted as Value; MSCI Sector Neutral Quality Index denoted as Quality; MSCI Minimum Volatility Index denoted as Min Vol. MSCI USA DMF Index denoted as Multifactor. Index returns are for illustrative purposes. Index performance returns do not reflect management fees, transactions costs or expenses. Indexes are unmanaged and one cannot invest directly in an index. Data for time periods prior to the index inception date is hypothetical and is provided for informational purposes only to indicate historical performance had the index been available over the relevant time period. The information above includes back-tested data. For additional information, see "Index Disclosures" slides located in the Appendix. It is not possible to directly invest in an unmanaged index. iS-18699 FOR INSTITUTIONAL USE ONLY -- NOT FOR PUBLIC DISTRIBUTION 12

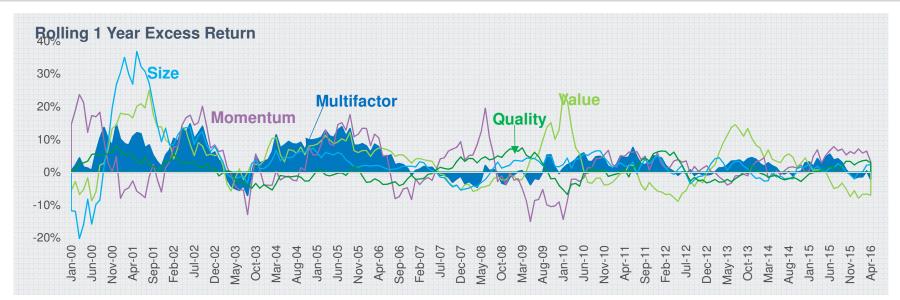
#### Blending factors; a different way to diversify



Factors – Excess Returns over MSCI USA

USA Enhanced Value Index denoted as Value; MSCI Sector Neutral Quality Index denoted as Quality; MSCI Minimum Volatility Index denoted as Min Vol. MSCI USA DMF Index denoted as Multifactor. Index returns are for illustrative purposes. Index performance returns do not reflect management fees, transactions costs or expenses. Indexes are unmanaged and one cannot invest directly in an index. Data for time periods prior to the index inception date is hypothetical and is provided for informational purposes only to indicate historical performance had the index been available over the relevant time period. The information above includes back-tested data. For additional information, see "Index Disclosures" slides located in the Appendix. It is not possible to directly invest in an unmanaged index. 13 iS-18699 FOR INSTITUTIONAL USE ONLY -- NOT FOR PUBLIC DISTRIBUTION

#### Multifactor has been more consistent, more diversified



	Multifactor	Value	Momentum	Size	Quality
Total Periods	197	197	197	197	197
% Periods outperform MSCI USA Index	77%	63%	64%	76%	54%
Max Drawdown	-8.9%	-13.1%	-23.7%	-19.9%	-9.4%
Max Drawdown Duration (months)	5	20	54	11	8

Source: MSCI. Based on back-tested index data from Jan 2000 – Apr 2016, relative to the MSCI USA Index. Data for time periods prior to the index inception date is hypothetical and is provided for informational purposes only to indicate historical performance had the index been available over the relevant time period. Value corresponds to the MSCI USA Enhanced Value Index, Quality corresponds to the MSCI USA Sector Neutral Quality Index, Momentum corresponds to MSCI USA Momentum Index, Size corresponds to the MSCI USA Risk. Weighted Index, and Multifactor corresponds to the MSCI USA Diversified Multiple Factor Index. Index returns are for illustrative purposes only. Indexes are unmanaged and one cannot invest directly in an index. Past performance does not guarantee future results. For more information, see appendix.

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# An important philosophy of factors due diligence:

# Focus on rewarded factors that endure as a result of a risk premium, structural impediment or behavioral anomaly

> Pursue excess returns over traditional benchmarks, or seek to achieve specific outcomes

Economic Rationale	Value Creation					
Based on strong economic intuition and academic evidence*	Empirical evidence of positive returns*					
<b>Diversification</b> Low correlation with other factors	Efficient Implementation Captured and implemented in transparent, repeatable manner					

\* Bender, Jennifer, Briand, Remy, Melas, Dimitris, and Raman Aylur Subramanian (2013), "Foundations of Factor Investing", MSCI Research Insight

#### **Important Notes**

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