Global



Date 2 July 2014



TAARSS says increase equities, but still prefer fixed income in Q3

Tactical Asset Allocation Relative Strength Signal (TAARSS) Monthly Update

Market review

Global equities (ACWI) extended their May rally into the month of June by adding 1.82%. In turn, US bonds (AGG) were mostly flat during the same period (-0.06%); while Commodities recovered from the previous month losses by recording a 2.11% gain in June.

TAARSS rotation strategy quarterly and monthly performance review

TAARSS rotation strategies were all positive for the previous month and quarter; however most of them underperformed their benchmarks (Figure 1). Within equities, EM (2.40%), US Small Caps (5.27%), Latin America (3.22%), and Canada (5.70%) were the strongest performers per strategy; while Gold (6.32%) and Convertibles (2.30%) were the top categories within commodities and fixed income, respectively during the month of June. On a quarterly basis, Global Equities recorded the strongest returns during Q2 with 5.95%.

Author

Sebastian Mercado

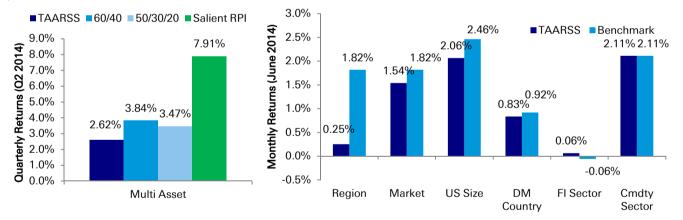
Strategist (+1) 212 250-8690 sebastian.mercado@db.com

Related recent research

Date

Tactical Asset Allocation (TAA) insights from ETF flows Sebastian Mercado Source: Deutsche Bank 14 May 2014

Figure 1: Performance Summary for Quarterly & Monthly TAARSS rotations - Q2 & June 2014



Source: Deutsche Bank, Bloomberg Finance LP. Total returns for Q2 2014 and June 2014. Benchmark details provided in Figure 2

Tactical positioning for Q3 and July 2014

For Q3, TAARSS suggests a renewed appetite for risk with an increase in equity allocations (41% from 22%); however, the strategy still favors fixed income (59%) in the multi asset rotation. For the month of July, TAARSS equity positioning indicates a preference for Mid Caps within the US, Europe among regions (although less strong than the previous month), EM for market allocations, and Italy for DM countries. In terms of fixed income sectors, TAARSS favors EM Debt; while the Energy sector saw the strongest signal within the commodity rotation.

Deutsche Bank Securities Inc.

Deutsche Bank does and seeks to do business with companies covered in its research reports. Thus, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. DISCLOSURES AND ANALYST CERTIFICATIONS ARE LOCATED IN APPENDIX 1.MCI (P) 148/04/2014.



TAARSS Update

Performance Review

In this section we provide a performance update for all seven TAARSS monthly and quarterly direct rotation strategies. Readers may refer to Figure 2 for full details pertaining each of the monthly and quarterly rotation strategies.

Figure 2: Summary of monthly and quarterly rotation strategies implementable with TAARSS methodology

Asset Class	Rotation Strategy	Frenquency	Universe	Exposure	Benchmark
Multi Asset	Asset Class	Quarterly	All ETPs Ex SPY, IWM, 9 Select Sector SPDRs	Global Equities, US Aggregate Fixed Income, Broad Diversified Commodities	60/40, 50/30/20, Salient Risk Parity Index*
Equity	US Size	Monthly	All ETPs Ex SPY, IWM, 9 Select Sector SPDRs	Large Cap, Mid Cap, Small Cap	Russell 3000
Equity	Region	Monthly	All ETPs Ex SPY, IWM, 9 Select Sector SPDRs	North America, Europe, Asia Pacific, Latin America	MSCI ACWI
Equity	Market	Monthly	All ETPs Ex SPY, IWM, 9 Select Sector SPDRs	US, DM ex US, EM	MSCI ACWI
Equity	DM Country	Monthly	All ETPs	Australia, Austria, Canada, France, Germany, Hong Kong, Italy, Japan, Singapore, Spain, Sweden, Switzerland, UK	MSCI EAFE
Fixed Income	Sector	Monthly	All ETPs	Corp IG, Corp HY, US Trsy, MBS, Inflation, Convertible, Senior Loan, Intl DM Debt, EM Debt, Municipal	Barclays US Agg
Commodity	Sector	Monthly	All ETPs	Gold, Div. Broad, Energy, Agriculture	DBIQ Optimum Yield Diversified Commodity

^{*}Represented by the Salient Risk Parity Index, all other benchmarks or components are represented by US-listed ETFs

Source: Deutsche Bank

TAARSS rotation strategies

Our Fixed Income Sector and Commodity Sector rotation strategies outperformed or performed in line with their respective benchmarks in June; while the rest of the monthly equity and the quarterly multi asset strategies lagged their respective benchmarks (Figure 1). Within equities, EM (2.40%), US Small Caps (5.27%), Latin America (3.22%), and Canada (5.70%) were the strongest performers per strategy; while Gold (6.32%) and Convertible (2.30%) were the top categories within commodities and fixed income, respectively during the same period (Figure 3).

Our quarterly multi asset rotation strategy gained 2.62% during Q2, versus 3.84%, 3.47%, and 7.91% corresponding to the 60/40, 50/30/20, and Salient Risk Parity benchmarks.



Figure 3: Quarterly and monthly TAARSS allocation and performance* review – individual position details

Quarterly Rotations		
Asset Class	2014 Q2	QTD %
Global Equities	21.6%	5.09%
US Agg. Fixed Income	72.1%	1.95%
Broad Div. Cmdty	6.3%	1.76%
Cash	0.0%	

Commodity Monthly Rotations				
Sector	June 2014	1M %		
Gold	0.0%	6.32%		
Div. Broad	100.0%	2.11%		
Energy	0.0%	3.29%		
Agriculture	0.0%	-0.90%		
Cash	0.0%			

Equity Month	ly Rotations			
US Size	June 2014	1M %	DM Country	June 20
Large Cap	100.0%	2.06%	Australia	8
Mid Cap	0.0%	4.17%	Austria	0
Small Cap	0.0%	5.27%	Canada	13
Cash	0.0%		France	29
			Cormany	7

North America	6.0%	2.06%
Europe	87.6%	-0.08%
Asia Pacific	0.0%	3.05%
Latin America	6.4%	3.22%
Cash	0.0%	
Market	June 2014	1M %
US	7.0%	2.06%
DM Intl	56.7%	0.92%
FM	36.3%	2.40%

DM Country	June 2014	1M %	
Australia	8.1%	-0.14%	
Austria	0.0%	0.19%	
Canada	13.4%	5.70%	
France	29.4%	-1.46%	
Germany	7.8%	-0.71%	
Hong Kong	0.0%	0.92%	_
Italy	0.0%	-0.32%	-
Japan	0.0%	4.68%	
Singapore	0.0%	-1.08%	
Spain	40.2%	1.40%	
Sweden	0.0%	-1.89%	
Switzerland	0.5%	-0.43%	
UK	0.7%	0.81%	
Cash	0.0%		

Fixed Income N	Ionthly Rota	tions
FI Sector	June 2014	1M %
Corp IG	5.4%	0.01%
Corp HY	5.4%	0.61%
US Trsy	62.8%	-0.22%
MBS	7.2%	0.21%
Inflation	3.1%	0.37%
Convertible	4.5%	2.30%
Senior Loans	0.0%	0.49%
Intl DM Debt	3.2%	1.60%
EM Debt	0.0%	0.04%
Municipal	8.4%	-0.16%
Cash	0.0%	

Source: Deutsche Bank, Bloomberg Finance LP. *Returns correspond to Total returns as of June 30, 2014. Asset class returns are based on ETF and ETV returns as given by the tables in the Appendix A. The returns for the Asia Pacific region position are not based on a single ETF, but rather on the MSCI All Country Asia Pacific Net Total Return USD Index.

0.0%

Monthly returns by asset class/segment

Figure 4 presents a summary of the returns along with June's z-score ranking for all the individual asset classes within the monthly rotation strategies.

Cash

Figure 4: Monthly TAARSS single asset class performance* for June 2014

Investment Segment	z-scores Direction	1M TR
US Treasury	4.61 Positive	-0.22%
Spain	2.05 Positive	1.40%
France	1.39 Positive	-1.46%
Europe	1.08 Positive	-0.08%
Canada	0.43 Positive	5.70%
Municipal	0.29 Positive	-0.16%
DM Intl	0.28 Positive	0.92%
MBS	0.19 Positive	0.21%
Australia	0.11 Positive	-0.14%
Germany	0.10 Positive	-0.71%
Diversified Broad	0.08 Positive	2.11%
Corp HY	0.06 Positive	0.61%
Corp IG	0.05 Positive	0.01%
EM	0.04 Positive	2.40%
Convertible	-0.02 Positive	2.30%
Intl DM Debt	-0.12 Positive	1.60%
Inflation	-0.13 Positive	0.37%
Latin America	-0.27 Positive	3.22%

Investment Segment	z-scores	Direction	1M TR
North America	-0.28	Positive	2.06%
US	-0.30	Positive	2.06%
UK	-0.34	Positive	0.81%
Switzerland	-0.35	Positive	-0.43%
Large Cap	-0.37	Positive	2.06%
Senior Loans	-0.38	Positive	0.49%
Austria	-0.38	Neutral	0.19%
Italy	-0.38	Negative	-0.32%
Gold	-0.38	Negative	6.32%
Asia Pacific	-0.40	Negative	3.05%
Energy Cmdty	-0.40	Negative	3.29%
Singapore	-0.44	Negative	-1.08%
Mid Cap	-0.44	Negative	4.17%
Agriculture	-0.67	Negative	-0.90%
EM debt	-0.75	Negative	0.04%
Hong Kong	-0.78	Negative	0.92%
Small Cap	-0.88	Negative	5.27%
Sweden	-1.12	Negative	-1.89%
Japan	-1.20	Negative	4.68%

Equity
Fixed Income
Commodity

Source: Deutsche Bank, Bloomberg Finance LP. *Z-scores valid for the month of May. Returns correspond to Total returns. Asset class returns are based on ETF and ETV returns as given by the tables in the Appendix A. The returns for the Asia Pacific region position are not based on a single ETF, but rather on the MSCI All Country Asia Pacific Net Total Return USD Index.

Deutsche Bank Securities Inc.



Positioning for the current quarter and month

For Q3, TAARSS suggests a renewed appetite for risk with an increase in equity allocations (41% from 22%); however, the strategy still favors fixed income (59%) in the multi asset rotation. For the month of July, TAARSS equity positioning indicates a preference for Mid Caps within the US, Europe among regions (although less strong than the previous month), EM for market allocations, and Italy for DM countries. In terms of fixed income sectors, TAARSS favors EM Debt; while the Energy sector saw the strongest signal within the commodity rotation. See Figure 5 and Figure 6 for full allocation details for the month of July and Q3.

Figure 5: Current allocation for direct rotation TAARSS quarterly and monthly portfolios

Quarterly Rotations	
Asset Class	2014 Q3
Global Equities	41.0%
US Agg. Fixed Income	59.0%
Broad Div. Cmdty	0.0%
Cash	0.0%

Commodity Monthly Rotations		
Sector	July 2014	
Gold	0.0%	
Div. Broad	0.0%	
Energy	100.0%	
Agriculture	0.0%	
Cash	0.0%	

Equity Monthly Rotations		
July 2014		
16.1%		
80.2%		
3.7%		
0.0%		

Region	July 2014
North America	24.1%
Europe	41.9%
Asia Pacific	22.3%
Latin America	11.7%
Cash	0.0%

Market	July 2014
US	25.8%
DM Intl	27.9%
EM	46.3%
Cash	0.0%

DM Country	July 2014
Australia	0.0%
Austria	17.0%
Canada	1.2%
France	0.0%
Germany	0.0%
Hong Kong	0.6%
Italy	59.8%
Japan	0.0%
Singapore	0.0%
Spain	19.6%
Sweden	0.0%
Switzerland	1.3%
UK	0.4%

0.0%

Cash

Fixed Income Monthly Rotations				
FI Sector	July 2014			
Corp IG	0.0%			
Corp HY	0.0%			
US Trsy	0.0%			
MBS	16.7%			
Inflation	11.6%			
Convertible	23.0%			
Senior Loans	0.0%			
Intl DM Debt	6.9%			
EM Debt	34.6%			
Municipal	7.2%			
Cash	0.0%			

Source: Deutsche Bank, Bloomberg Finance LP.

Page 4



Figure 6: Normalized monthly TAARSS rankings for July 2014

Investment Segment	z-scores Direction
Italy	4.98 Positive
Spain	1.49 Positive
Austria	1.26 Positive
Energy Cmdty	0.26 Positive
Mid Cap	0.24 Positive
EM debt	0.24 Positive
EM	0.16 Positive
Europe	0.15 Positive
Convertible	0.08 Positive
DM Intl	0.01 Positive
MBS	0.00 Positive
North America	-0.01 Positive
US	-0.01 Positive
Asia Pacific	-0.02 Positive
Inflation	-0.07 Positive
Switzerland	-0.10 Positive
Canada	-0.11 Positive
Latin America	-0.12 Positive
Municipal	-0.12 Positive
Large Cap	-0.13 Positive
Intl DM Debt	-0.13 Positive
Hong Kong	-0.16 Positive
UK	-0.19 Positive
Small Cap	-0.20 Positive
Gold	-0.22 Positive

Investment Segment	z-scores Direction
US Treasury	-1.69 Negative
France	-1.28 Negative
Agriculture	-0.91 Negative
Germany	-0.83 Negative
Sweden	-0.56 Negative
Senior Loans	-0.38 Negative
Australia	-0.36 Negative
Singapore	-0.35 Negative
Diversified Broad	-0.28 Negative
Japan	-0.24 Negative
Corp HY	-0.22 Negative
Corp IG	-0.22 Negative

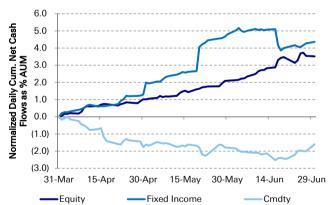
Equity
Fixed Income
Commodity

Source: Deutsche Bank, Bloomberg Finance LP. Rankings calculated as of the end of June 2014

Multi Asset>Equity/Fixed Income/Cmdty rotation flow trend

Flow trend during Q2 was significant with good consistency and magnitude for both global equities and fixed income. The fixed income trend remained slightly stronger than the equity one for most of the second quarter. Although we can clearly note the presence of model trading anomaly in the fixed income trend, we don't think this affects the signal calculation significantly. On the commodity side, the flow trend was mostly weak and negative throughout the past quarter, with a slight pick-up in flows towards the end of the 3-month period; not enough to become relevant for the multi asset rotation strategy, however.

Figure 7: Multi Asset>Equity/FI/Cmdty monthly flow trend



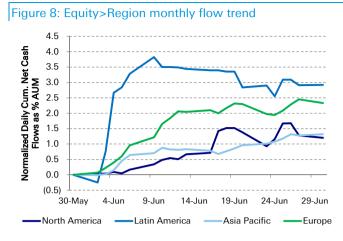
Source: Deutsche Bank, Bloomberg Finance LP.

Deutsche Bank Securities Inc. Page 5



Equity>Region rotation flow trend

Signals were positive across all regional allocations. Signal formation for Europe remained the strongest within regional allocations, although presenting a slow down relative to previous months. Europe, North America, and Asia Pacific presented similar consistency in flow trend build-up, but magnitude favored Europe. The Latin America flow trend presented a large magnitude during June, however this was mostly due to a few large allocations early in the month rather than the result of a consistent series of inflows.

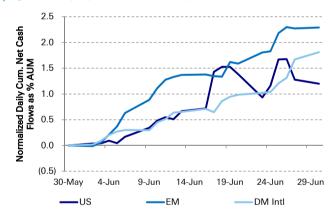


Source: Deutsche Bank, Bloomberg Finance LP.

Equity>Market rotation flow trend

Both EM and DM international presented good consistency in terms of flow trend build-up. The EM trend however registered a relatively larger magnitude and hence a stronger signal reading. The US trend showed some good signs of trend formation during June, although the flow trend experienced some choppiness on the second half of the month. It will be important to keep an eye on these trends as the DM international signal begins to lose momentum and the EM and US trends attempt to stage a comeback.

Figure 9: Equity>Market monthly flow trend

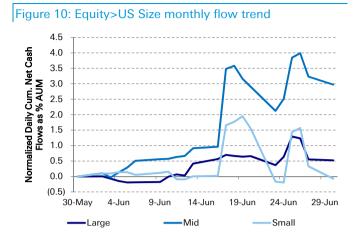


Source: Deutsche Bank, Bloomberg Finance LP



Equity>US Size rotation flow trend

US size flow trends had a slow start all the way up to the end of the first half of June; the second half of the month was marked by flow volatility across the three market cap segments. Overall, mid caps managed to register the strongest signal, followed by weaker signals in large caps and small caps. Although signals for the size rotation were not very strong, we noticed an improvement from May which saw flat trends, probably a sign of investors coming back to the US market.

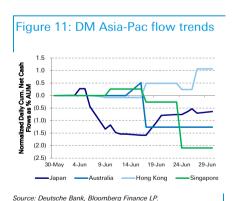


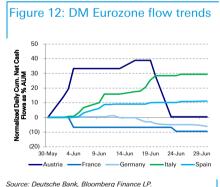
Source: Deutsche Bank, Bloomberg Finance LP.

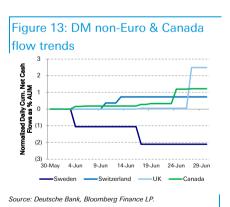
Equity> DM Country rotation flow trend

Among DM countries, we would like to highlight two positive trends: Italy and Spain. Italy exhibited the strongest trend at a country level with sizable steady inflows throughout most of the month. Spain, however, had a strong start but then remained neutral for the remainder of the month. All in all, Eurozone peripheral countries keep attracting most of the attention within the developed market world outside the US.

On the weak side, Japan, Germany, and France experienced negative trends during June. Japan has experienced two months of strong rally; however we haven't seen the corresponding inflows to go along with it. Having said that, we did see a pick-up in flows towards the second half of June; with prime minister Abe launching the third arrow of measures to boost the economy we will be watching the Japan flow trend very closely as this could confirm the beginning of the next phase of the Japanese equities rally along with a new round of allocations. Germany and France experienced some weakness as investors preferred peripheral Eurozone countries rather than the core ones.







Fixed Income> Sector rotation flow trend

Weakness in US treasuries was mostly related to the model trading activity we pointed out last month, in the absence of which the trend would be neutral. The MBS and the Inflation segments presented the most relevant positive signals within the investment grade sectors. In the meantime, corporate IG ETF flows experienced a steep pullback early in the month, but then began to reverse that trend towards the end of the month.

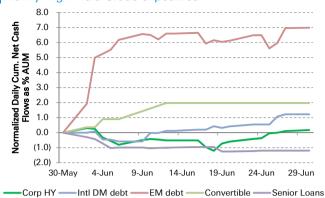


Figure 14: Fixed Income>Sector monthly flow trend - Mainly Investment Grade exposures



Source: Deutsche Bank, Bloomberg Finance LP.

Figure 15: Fixed Income>Sector monthly flow trend - Mainly High Yield Grade exposures



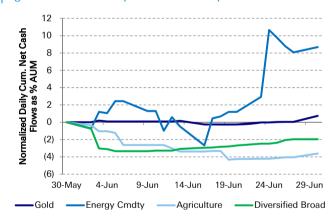
Source: Deutsche Bank, Bloomberg Finance LP.

Within the High Yield space, EM debt received very significant flows in the beginning of the month after which the flow trend remained slightly positive. EM debt is probably the only trend worth highlighting along with Senior Loans. Although not very weak, we do consider the negative trend in Senior Loans as a sign of cooling down for the asset class.

Commodities> Sector rotation flow trend

Within commodities, we highlight the positive trend in the Energy sector which was most likely driven by developments in the geopolitical situation in Irak. On the downside, the flow trend for agriculture reflected investment demand weakness for the sector. Interestingly, gold flows remained flat despite the rally experienced by the yellow metal during June.

Figure 16: Commodity>Sector monthly flow trend



Source: Deutsche Bank, Bloomberg Finance LP.



Appendix A: ETF TAARSS

This appendix is an extract from the original report published on May 14th, 2014; readers may refer to the full original report for further detail. This section describes our Tactical Asset Allocation Relative Strength Signal (TAARSS) based on ETF flow trends. The objective of the signal is to identify those asset classes that seem more attractive based on investors asset allocation preferences.

The underlying principle behind our signal is that at the end of the day what moves markets are the technical forces of supply and demand. In other words, although fundamentals are very important they do not move markets, but rather serve as a catalyst of technical forces that in turn will be the ones driving the investment demand for a specific asset class or market and therefore move markets. For example, even if the fundamentals for a country are very strong that country is not going to experience a price rally until enough investors are convinced of the fundamental story and begin to manifest their preferences through their asset allocation decisions; this would translate into an increase in investment demand for the specific country and hence would drive its price higher. In general, the supply curve for an asset class tends to be more stable in the short or medium term than the demand side of the equation; hence the reason why we have focused on understanding the investment demand shifts.

Our new methodology seeks to measure the strength of the directional consensus among different asset classes in order to identify those that have the best potential for price appreciation based on shifts in the investment demand curve. Because of the points discussed earlier in the report, we believe that ETF flow trends can serve as an ideal proxy to identify and measure the strength of these trends. In the next subsections we discuss in detail our TAARSS methodology, its governing principles, and parameters.

Universe

Our objective is to measure investors' directional asset allocation preferences. Therefore we should focus on asset allocation products that offer non-levered (i.e. delta one) directional access (i.e. only long products). In addition, we care about products that can reflect their activity in the underlying market; therefore we only consider funded products. In ETP terms, we only consider US-listed long-only non-levered ETFs and ETVs as part of the initial universe; ETNs are excluded because they are not funded as well as leveraged and inverse products because they are more of a trading vehicle than an asset allocation one.

Classification

Using the right classification is as important as selecting the right universe. The ideal classification should be asset allocation-driven and have enough granularity to allow for sufficient tactical insight and implementation. In our case we use our proprietary classification system which identifies 181 different investment segments distributed among 4 main asset classes, multiple dimensions, and multiple levels. Furthermore, our classification is completely

The objective of the signal is to identify those asset classes that seem more attractive based on investors asset allocation preferences.

We have identified 181 different investment segments distributed across four main asset classes: Equity, Fixed Income, Commodity, and Currency.



investable via ETFs and ETVs. All of the 181 investment segments can be accessed through a single product, with two exceptions which are accessed via two products. Figure A1 and Figure A2 display our classification system with the corresponding AUM for the whole segment as of the end of April 2014 and an ETP implementation for each individual segment. Because we use the product prices in the backtesting of the strategies presented in the next section, we selected most of the ETPs based in their listing date and size; therefore these should not be necessarily seen as the best or only alternative for each asset class but rather as a representative one, especially for the backtesting period. We have also included a column to indicate whether we consider an investment segment seasoned or not; we provide more details about the meaning of being a seasoned investment segment in the next section.

The classification of products is also very important because it allows us to aggregate the flow data in a more meaningful way. For example, some of the small individual product flow anomalies may dissipate at an aggregated level.

Figure A1: DB ETF Classification System for Tactical Asset Allocation - Fixed Income, Commodity, Currency

Categories	AUM \$MM	Sea- soned	ETF	Categories	AUM \$MM	Sea- soned	ETF
Fixed Income	280,839	Υ	BND	Commodity	59,539	Υ	DBC
FIXED INCOME - SECTOR				COMMODITY - SECTOR			
US Treasury	30,648	Υ	IEF	Diversified Broad	7,951	Υ	DBC
Convertible	2,754	Υ	CWB	Energy	2,003	Υ	DBE
IG Corporates	62,691	Υ	LQD	Crude Oil	898	Υ	USO
HY Corporates	37,480	Υ	HYG	Natural Gas	539	Υ	UNG
Inflation	20,874	Υ	TIP	Gasoline	46		UGA
Municipal	12,838	Υ	MUB	Heating Oil	3		UHN
IG Broad	69,060	Υ	BND	Agriculture	1,596	Υ	DBA
International DM Debt	4,509	Υ	BWX	Sugar	3		CANE
EM Debt	10,535	Υ	EMB	Corn	86		CORN
Preferred	14,311	Υ	PFF	Soybean	4		SOYB
Collateralized Debt	6,799	Υ	MBB	Wheat	12		WEAT
Senior Loans	8,290	Υ	BKLN	Industrial Metals	104		DBB
				Precious Metals	47,719	Υ	DBP
FIXED INCOME - DURATION				Copper	4		CPER
Floating	12,442	Υ	FLOT	Gold	39,373	Υ	GLD
Very Short	7,832	Υ	SHV	Silver	6,668	Υ	SLV
Short	68,577	Υ	SHY	Platinum	770	Υ	PPLT
Intermediate	62,496	Υ	IEI	Palladium	521	Υ	PALL
Long	8,560	Υ	TLT				
				Currency	2,533	Υ	UUP
FIXED INCOME - CREDIT				Bull USD	717	Υ	UUP
Investment Grade	207,310	Υ	LQD	Bear USD	1,817	Υ	UDN
High Yield	48,530	Υ	HYG		·		

Source: Deutsche Bank, Bloomberg Finance LP. AUM as of May 30, 2014.

Figure A2: DB ETF Classification System for Tactical Asset Allocation – Equity

Categories	AUM \$MM	Sea- soned	ETF
Equity	1,393,488	Υ	ACWI
EQUITY - US SECTOR & INDUSTRY			
Consumer Discretionary	9,101	Υ	XLY
Leisure & Entertainment	164		PEJ
Media	165		PBS
Retail	803	Υ	XRT
Industrials	16,340	Υ	XLI
Aerospace & Defense	550	Υ	ITA
Construction & Engineering	122		PKB
Transportation	1,249	Y	IYT
Financials	67,242	Υ	XLF
Capital Markets	396	Y	IAI
Commercial Banks	5,443	Υ	KRE
Insurance	415	Y	KIE
Real Estate	37,264	Y	VNQ
Real Estate Intl*	8,934	Y	VNQI
Financial Services	576	Y	IYG
Thrifts & Mortgage Finance	8		KME
Technology	29,811	Y	VGT
Communication Equipment	340	Y	IGN
Internet Software & Services	2,110	Y	FDN
Semiconductors	940	Y	SMH
Software	1,162	Y	IGV
Energy	22,532	<u>Y</u>	XLE
Energy Equipment & Services	2,270	Y	OIH
Oil, Gas, and Cosumable Fuels	1,814	Y	XOP
Materials	13,032	Y	XLB XHB
Construction Materials	3,244 492	<u>Ү</u> Ү	XHB
Metals and Mining Consumer Staples	9,776	Y	XLP
Food & Beverage	377	T	PBJ
Healthcare	30,113	Y	XLV
Biotechnology	7,973	Y	IBB
Pharmaceutical	3,021	Y	PJP
Health Care Providers & Services	568	Y	IHF
Health Care Equipment & Supplies	739	Y	IHI
Telecom	1.434	Y	VOX
Utilities	8,600	Y	XLU
Cuitiou	0,000		ALU .
EQUITY - GEO. FOCUS: MARKET			
EM	139,187	Υ	EEM
DM	225,669	Ÿ	EFA
US	967,686	Ÿ	SPY
Global	60.947	Ÿ	ACWI
	30,0-17		
EQUITY - GEO. FOCUS: REGION			
North America	971,982	Υ	SPY
Latin America	9,295	Y	ILF
Asia Pacific	61,891	Ÿ	AAXJ+EW.
Europe	64,588	Ÿ	VGK
Global	284,591	Ÿ	ACWI
Middle East & Africa	1,142	Ÿ	MES+AFK
THIS COST OF THIS OF	1,172		WILDTAIN

Categories	AUM \$MM	Sea- soned	ETF
EQUITY - GEO. FOCUS:	COUNTRY		
Developed Markets			
Australia	2,079	Υ	EWA
Austria	72		EWO
Belgium	87		EWK
Canada	3,512	Υ	EWC
Denmark	55		EDEN
Finland	40		EFNL
France	446	Υ	EWQ
Germany	6,236	Υ	EWG
Hong Kong	1,953	Υ	EWH
Ireland	170		EIRL
Israel	162		EIS
Italy	1,441	Υ	EWI
Japan	25,626	Y	EWJ
Netherlands	233		EWN
New Zealand	177		ENZL
Norway	115		NORW
Portugal	26		PGAL
Singapore	1,053	Υ	EWS
Spain	2,351	Y	EWP
Sweden	528	Y	EWD
Switzerland	1,207	Y	EWL
UK	4,440	Y	EWU
US	967,686	Y	SPY
Emerging Markets	307,000		31 1
Argentina	8		ARGT
Brazil	4,497	Υ	EWZ
Chile	330	Y	ECH
China	7,575	Y	FXI
Colombia	142		GXG
Egypt	76		EGPT
Greece	231		GREK
India	3,610	Y	EPI
	764	Y	EIDO
Indonesia	764	Y	
Malaysia		<u>r</u>	EWW
Mexico	2,888	ſ	NGE
Nigeria	18 222		
Peru		Y	EPU
Philippines	347	Y	EPHE
Poland	419		EPOL
Russia	1,960	Y	RSX
South Africa	574	Y	EZA
South Korea	4,444	Y	EWY
Taiwan	3,029	Y	EWT
Thailand	488	Y	THD
Turkey	591	Y	TUR
Vietnam	525	Υ	VNM
EQUITY - MARKET CAP	SIZE		
Large Cap	503,500	Υ	SPY
Mid Cap	84,877	Y	MDY
Small Cap	81,224	Y	IWM
	,		

Categories	AUM \$MM	Sea-	ETF
	ACIVI DIVIIVI	soned	EIF
EQUITY - STYLE			
Growth	80,049	Υ	IWF
Value	79,142	Y	IWD
EQUITY - THEMES			
Commodities			
Agribusiness	3,201	Y	MOO
Coal	169		KOL
Commodities	88		CRBQ
Copper	64		COPX
Gold	9,089	Y	GDX
Industrial Metals	104		HAP
Natural Gas	539	Υ	FCG
Natural Resources	6,015	Y	IGE
Nuclear	311	Υ	URA
Platinum	10		PLTM
Rare Earth	93		REMX
Lithium	59		LIT
Silver	220	Y	SIL
Steel	94		SLX
Timber	569	Υ	WOOD
Socially Responsible Investing	4.000		T
Clean Energy	1,232	Υ	TAN
Clean Tech	86		PZD
Equality	5		EQLT
ESG	652	Y	DSI
Water	1,822	Y	PHO
Industry Trend	07		AIDD
American Industrial Renaissance	37		AIRR
Cloud Computing	299	Υ	SKYY
Consumer	1,428 146	Y	ECON DEF
Defensive	65		
Gaming		Υ	BJK IGF
Infrastructure MLP	1,475 10,056	Y Y	
Robotics	96	Y	AMLP ROBO
Shipping	118 11		SEA FONE
Smartphone Social Media	138		SOCL
Unconventional Oil & Gas	71		FRAK
Other	/1		FNAK
Analyst Recommendations	296		RYJ
Buybacks	2,987	Y	PKW
	2,967	T	FLAG
Forensic Accounting Hedge Fund 13F	502	Y	GURU
Insider	222		NFO
IPO	494	Y	FPX
Nashville	7	ı	NASH
No-Analyst Coverage	59		WMCR
NYSE Century listed	4		NYCC
Spin-Off	710	Y	CSD
- эриг-оп	710		COD

Source: Deutsche Bank, Bloomberg Finance LP. *This is the only industry presented under US Sector & Industry which is not US-focused. AUM as of May 30, 2014.





Methodology

Our calculation methodology is an interpretation of a phenomenon we have observed for the last five years of live ETF flow analysis. As we studied ETF flow cumulative trends across asset classes we noticed that not all trends were created equal. For example, some were very choppy; others exhibited significant step patterns as a result of lump sum inflows or outflows; and others were very steady in one specific direction. We also realized that those flow trends that presented a steadier path and larger size were more likely to be related to future directional performance compared to other trends. We believe that this behavior is grounded on the fact that a large directional and steady flow trend is an indication of an investment demand shift and hence should be accompanied by the corresponding price move. With these insights in mind we sought to develop a quantitative measure that would help us quantify this behavior and provide a gauge of the strength of each ETF flow trend.

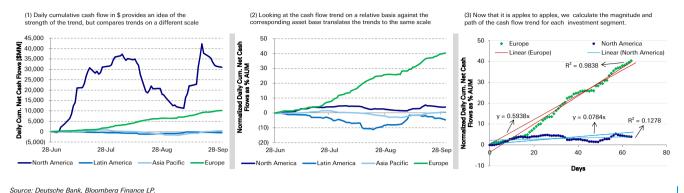
The first challenge we faced in order to use our measure as a relative strength indicator was the fact that we were looking at ETF flow trends in absolute dollar terms which we realized was not an apples to apples comparison; therefore we decided to adjust each ETF flow trend relative to the assets under management within the respective asset class in order to look at asset classes on a more comparative basis. For instance, from Figure we could say that, in absolute terms, North American equity ETFs received over \$30bn in new flows compared to \$10bn received by European equity ETFs over a period of 3 months; or we could also say, in relative terms, that North American equity ETFs received about 5% of AUM in new flows compared to about 40% of AUM in new cash for European equity ETFs in the same period. As shown by this example, we can clearly see that the strength reading from an absolute scale compared to a relative scale can vary significantly. In our case, we are more concern with relative scale comparisons as these would actually provide a better understanding of investors' sentiment towards different asset classes.

Now that we were able to compare apples to apples, the second challenge was to measure the steadiness and the size of the trend, or to put it in other words the path and the magnitude of the ETF flow trend. We propose to measure the path and magnitude of the trend with the help of two single linear regressions. Both regression lines would be based on the flow trend (known Ys) and the number of days over which the signal is being calculated (known Xs). For measuring the consistency of the trend path we use the R-squared of the line of best fit, this gives us an idea of how linear or how steady the ETF flow trend is; the higher the R-squared the more linear and steady the trend. On the other hand, we use the slope of a single linear regression through the origin as a proxy for measuring the size or magnitude of the trend; the steepest the slope the stronger the trend. Embedded within the size measure, we should add that the sign of the slope also reflects the direction of the trend (Figure A3).

The steeper and steadier the ETF flow trend, the stronger the signal.



Figure A3: Measuring ETF flow trend strength



The last step in our calculation is to combine our path and magnitude measures to get an overall strength indicator for the flow trend. We do this by multiplying magnitude by path, or in other words, slope times R-squared. Mathematically:

Single linear regression through origin (SLRTO)

$$\hat{Y}_i = \hat{\beta}_1 X_i \tag{1}$$

where $\hat{m{\beta}}_{\rm l}$ = slope parameter (used for magnitude and direction measure)

 $\hat{Y}_{\!\scriptscriptstyle i}$ = Estimated values for cash flow relative to AUM [%]

 X_i = days in the calculation period

Single linear regression - line of best fit (SLR)

$$\hat{Y}_i = \hat{\beta}_0 + \hat{\beta}_1 X_i \tag{2}$$

where $\hat{\beta}_0$ = intercept

 $\hat{\beta}_1$ = slope parameter

 $\hat{Y}_{\!\scriptscriptstyle i}$ = Estimated values for cash flow relative to AUM [%]

 X_i = days in the calculation period

$$R^{2} = \frac{\sum_{1}^{n} (\hat{Y}_{i} - \overline{Y}_{i})^{2}}{\sum_{1}^{n} (Y_{i} - \overline{Y}_{i})^{2}}$$
(3)

where R^2 = coefficient of determination (used as proxy for measuring flow trend path consistency)

 \overline{Y}_i = Mean of the observed Y values

 Y_i = Actual observed cash flow relative to AUM [%] values

Tactical Asset Allocation Relative Strength Signal (TAARSS)

TAARSS =
$$\hat{\beta}_1$$
 (SLRTO) x R^2 (SLR) (4)

where $\hat{\beta}_{\rm l}$ (SLRTO) = slope parameter of the single linear regression through origin.



 R^2 (SLR) = coefficient of determination of the single linear regression (line of best fit).

This calculation suggests that a flow trend with steep slope and linear path will translate into a stronger trend compared to a flow trend with just one of the two components (e.g. steep slope, but very low R-squared).

In addition, the combination of path and magnitude also help us to adjust for the effects of some of the ETF flow anomalies described in the previous section. For example, while rebalancing or model trading inflows would have the effect of increasing the slope of the trend, they would also translate into a lower R-squared; therefore the combination of both would keep the overall strength of the flow trend in check.

Signal and Rebalancing Frequency

Another important input for the signal computation is the period of time over which the signal is going to be calculated or in other words the flow trend data that is going to be considered in the calculation. We refer to this as signal frequency. We think of the signal frequency as the formation period over which a flow trend gathers enough flow momentum from investors' allocations so as to translate into price performance momentum.

On the other hand, we refer to rebalancing frequency to the time interval between signal calculation updates. The rebalancing frequency should be reflective of how often investors tend to reexamine their allocations in order to have enough flexibility to capture new market rotations. As mode of example, a signal that is calculated every quarter using data from the previous month would have a quarterly rebalancing frequency with a monthly signal frequency.



Appendix 1

Important Disclosures

Additional information available upon request

For disclosures pertaining to recommendations or estimates made on securities other than the primary subject of this research, please see the most recently published company report or visit our global disclosure look-up page on our website at http://gm.db.com/ger/disclosure/DisclosureDirectory.eqsr

Analyst Certification

The views expressed in this report accurately reflect the personal views of the undersigned lead analyst(s). In addition, the undersigned lead analyst(s) has not and will not receive any compensation for providing a specific recommendation or view in this report. Sebastian Mercado

Equity rating key

Buy: Based on a current 12- month view of total share-holder return (TSR = percentage change in share price from current price to projected target price plus pro-jected dividend yield) , we recommend that investors buy the stock.

Sell: Based on a current 12-month view of total shareholder return, we recommend that investors sell the stock

Hold: We take a neutral view on the stock 12-months out and, based on this time horizon, do not recommend either a Buy or Sell.

Notes

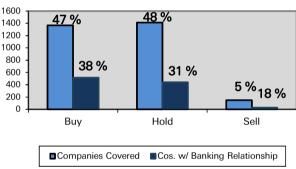
- 1. Newly issued research recommendations and target prices always supersede previously published research.
- 2. Ratings definitions prior to 27 January, 2007 were:

Buy: Expected total return (including dividends) of 10% or more over a 12-month period

Hold: Expected total return (including dividends) between -10% and 10% over a 12-month period

Sell: Expected total return (including dividends) of -10% or worse over a 12-month period

Equity rating dispersion and banking relationships



Global Universe



Regulatory Disclosures

1.Important Additional Conflict Disclosures

Aside from within this report, important conflict disclosures can also be found at https://gm.db.com/equities under the "Disclosures Lookup" and "Legal" tabs. Investors are strongly encouraged to review this information before investing.

Short-Term Trade Ideas

Deutsche Bank equity research analysts sometimes have shorter-term trade ideas (known as SOLAR ideas) that are consistent or inconsistent with Deutsche Bank's existing longer term ratings. These trade ideas can be found at the SOLAR link at http://gm.db.com.

3. Country-Specific Disclosures

Australia and New Zealand: This research, and any access to it, is intended only for "wholesale clients" within the meaning of the Australian Corporations Act and New Zealand Financial Advisors Act respectively.

Brazil: The views expressed above accurately reflect personal views of the authors about the subject company(ies) and its(their) securities, including in relation to Deutsche Bank. The compensation of the equity research analyst(s) is indirectly affected by revenues deriving from the business and financial transactions of Deutsche Bank. In cases where at least one Brazil based analyst (identified by a phone number starting with +55 country code) has taken part in the preparation of this research report, the Brazil based analyst whose name appears first assumes primary responsibility for its content from a Brazilian regulatory perspective and for its compliance with CVM Instruction # 483.

EU countries: Disclosures relating to our obligations under MiFiD can be found at http://www.globalmarkets.db.com/riskdisclosures.

Japan: Disclosures under the Financial Instruments and Exchange Law: Company name - Deutsche Securities Inc. Registration number - Registered as a financial instruments dealer by the Head of the Kanto Local Finance Bureau (Kinsho) No. 117. Member of associations: JSDA, Type II Financial Instruments Firms Association, The Financial Futures Association of Japan, Japan Investment Advisers Association. Commissions and risks involved in stock transactions - for stock transactions, we charge stock commissions and consumption tax by multiplying the transaction amount by the commission rate agreed with each customer. Stock transactions can lead to losses as a result of share price fluctuations and other factors. Transactions in foreign stocks can lead to additional losses stemming from foreign exchange fluctuations. "Moody's", "Standard & Poor's", and "Fitch" mentioned in this report are not registered credit rating agencies in Japan unless Japan or "Nippon" is specifically designated in the name of the entity. Reports on Japanese listed companies not written by analysts of Deutsche Securities Inc. (DSI) are written by Deutsche Bank Group's analysts with the coverage companies specified by DSI.

Qatar: Deutsche Bank AG in the Qatar Financial Centre (registered no. 00032) is regulated by the Qatar Financial Centre Regulatory Authority. Deutsche Bank AG - QFC Branch may only undertake the financial services activities that fall within the scope of its existing QFCRA license. Principal place of business in the QFC: Qatar Financial Centre, Tower, West Bay, Level 5, PO Box 14928, Doha, Qatar. This information has been distributed by Deutsche Bank AG. Related financial products or services are only available to Business Customers, as defined by the Qatar Financial Centre Regulatory Authority.

Russia: This information, interpretation and opinions submitted herein are not in the context of, and do not constitute, any appraisal or evaluation activity requiring a license in the Russian Federation.

Kingdom of Saudi Arabia: Deutsche Securities Saudi Arabia LLC Company, (registered no. 07073-37) is regulated by the Capital Market Authority. Deutsche Securities Saudi Arabia may only undertake the financial services activities that fall within the scope of its existing CMA license. Principal place of business in Saudi Arabia: King Fahad Road, Al Olaya District, P.O. Box 301809, Faisaliah Tower - 17th Floor, 11372 Riyadh, Saudi Arabia.

United Arab Emirates: Deutsche Bank AG in the Dubai International Financial Centre (registered no. 00045) is regulated by the Dubai Financial Services Authority. Deutsche Bank AG - DIFC Branch may only undertake the financial services activities that fall within the scope of its existing DFSA license. Principal place of business in the DIFC: Dubai International Financial Centre, The Gate Village, Building 5, PO Box 504902, Dubai, U.A.E. This information has been distributed by Deutsche Bank AG. Related financial products or services are only available to Professional Clients, as defined by the Dubai Financial Services Authority.



David Folkerts-Landau

Group Chief Economist Member of the Group Executive Committee

Guy Ashton Global Chief Operating Officer Research

Marcel Cassard Global Head FICC Research & Global Macro Economics Richard Smith and Steve Pollard Co-Global Heads **Equity Research**

Michael Spencer Regional Head Asia Pacific Research

Ralf Hoffmann Regional Head Deutsche Bank Research, Germany

Andreas Neubauer Regional Head Equity Research, Germany

Steve Pollard Regional Head Americas Research

International Locations

Deutsche Bank AG Deutsche Bank Place

Level 16

Corner of Hunter & Phillip Streets Sydney, NSW 2000

Australia

Tel: (61) 2 8258 1234

Deutsche Bank AG London

1 Great Winchester Street London EC2N 2EQ United Kingdom Tel: (44) 20 7545 8000

Deutsche Bank AG

Große Gallusstraße 10-14 60272 Frankfurt am Main Germany

Tel: (49) 69 910 00

Deutsche Bank AG

Filiale Hongkong International Commerce Centre. 1 Austin Road West, Kowloon, Hona Kona

Tel: (852) 2203 8888

Deutsche Securities Inc.

2-11-1 Nagatacho Sanno Park Tower Chiyoda-ku, Tokyo 100-6171

Japan

Tel: (81) 3 5156 6770

Deutsche Bank Securities Inc.

60 Wall Street New York, NY 10005 United States of America Tel: (1) 212 250 2500

Global Disclaimer

The information and opinions in this report were prepared by Deutsche Bank AG or one of its affiliates (collectively "Deutsche Bank"). The information herein is believed to be reliable and has been obtained from public sources believed to be reliable. Deutsche Bank makes no representation as to the accuracy or completeness of such information

Deutsche Bank may engage in securities transactions, on a proprietary basis or otherwise, in a manner inconsistent with the view taken in this research report. In addition, others within Deutsche Bank, including strategists and sales staff, may take a view that is inconsistent with that taken in this research report.

Deutsche Bank may be an issuer, advisor, manager, distributor or administrator of, or provide other services to, an ETF included in this report, for which it receives compensation

Opinions, estimates and projections in this report constitute the current judgement of the author as of the date of this report. They do not necessarily reflect the opinions of Deutsche Bank and are subject to change without notice. Deutsche Bank has no obligation to update, modify or amend this report or to otherwise notify a recipient thereof in the event that any opinion, forecast or estimate set forth herein, changes or subsequently becomes inaccurate. Prices and availability of financial instruments are subject to change without notice. This report is provided for informational purposes only. It is not an offer or a solicitation of an offer to buy or sell any financial instruments or to participate in any particular trading strategy. Target prices are inherently imprecise and a product of the analyst judgement.

In August 2009, Deutsche Bank instituted a new policy whereby analysts may choose not to set or maintain a target price of certain issuers under coverage with a Hold rating. In particular, this will typically occur for "Hold" rated stocks having a market cap smaller than most other companies in its sector or region. We believe that such policy will allow us to make best use of our resources. Please visit our website at m to determine the target price of any stock.

The financial instruments discussed in this report may not be suitable for all investors and investors must make their own informed investment decisions. Stock transactions can lead to losses as a result of price fluctuations and other factors. If a financial instrument is denominated in a currency other than an investor's currency, a change in exchange rates may adversely affect the investment

All prices are those current at the end of the previous trading session unless otherwise indicated. Prices are sourced from local exchanges via Reuters, Bloomberg and other vendors. Data is sourced from Deutsche

Past performance is not necessarily indicative of future results. Deutsche Bank may with respect to securities covered by this report, sell to or buy from customers on a principal basis, and consider this report in deciding to trade on a proprietary basis.

Derivative transactions involve numerous risks including, among others, market, counterparty default and illiquidity risk. The appropriateness or otherwise of these products for use by investors is dependent on the investors' own circumstances including their tax position, their regulatory environment and the nature of their other assets and liabilities and as such investors should take expert legal and financial advice before entering into any transaction similar to or inspired by the contents of this publication. Trading in options involves risk and is not suitable for all investors. Prior to buying or selling an option investors must review the "Characteristics and Risks of Standardized Options," at http://www.theocc.com/components/docs/riskstoc.pdf If you are unable to access the website please contact Deutsche Bank AG at +1 (212) 250-7994, for a copy of this important document

The risk of loss in futures trading and options, foreign or domestic, can be substantial. As a result of the high degree of leverage obtainable in futures and options trading, losses may be incurred that are greater than the amount of funds initially deposited.

the amount of funds initially deposited.

Unless governing law provides otherwise, all transactions should be executed through the Deutsche Bank entity in the investor's home jurisdiction. In the U.S. this report is approved and/or distributed by Deutsche Bank AG Frankfurt authorized by the BaFin. In the United Kingdom this report is approved and/or communicated by Deutsche Bank AG Frankfurt authorized by the BaFin. This report is distributed in Hong Kong by Deutsche Bank AG, Hong Kong Branch, in Korea by Deutsche Securities Korea Co. This report is distributed in Hong Kong by Deutsche Bank AG, Hong Kong Branch, in Korea by Deutsche Securities Korea Co. This report is distributed in Singapore Branch or Deutsche Securities Asia Limited, Singapore Branch One Raffles Quay #1-00 South Tower Singapore 045853, +65 6423 8001), and recipients in Singapore of this report are to contact Deutsche Bank AG, Singapore Branch or Deutsche Securities Asia Limited, Singapore Branch in respect of any matters arising from, or in connection with, this report. Where this report is issued or promulgated in Singapore to any matters arising from, or in connection with, this report. Where this report is put scheduled investor, expert investor or institutional investor (as defined in the applicable Singapore laws and regulations), Deutsche Bank AG, Singapore Branch or Deutsche Securities Asia Limited, Singapore Branch accepts legal responsibility to such person for the contents of this report. In Japan this report is approved and/or distributed by Deutsche Securities Inc. The information contained in this report does not constitute the provision of investment advice. In Australia, retail clients should obtain a copy of a Product Disclosure Statement (PDS) relating to any financial product referred to in this report and of the PDS before making any decision about whether to acquire the product. Deutsche Bank AG Johannesburg is incorporated in the Federal Republic of Germany (Branch Register Number in South Africa: 1998/003298/10). Additio

Copyright © 2014 Deutsche Bank AG