4 T H A N N U A L

## Innovative ALTERNATIVE INVESTMENT STRATEGIES

## **Trend Following Strategies**

**MODERATOR** 

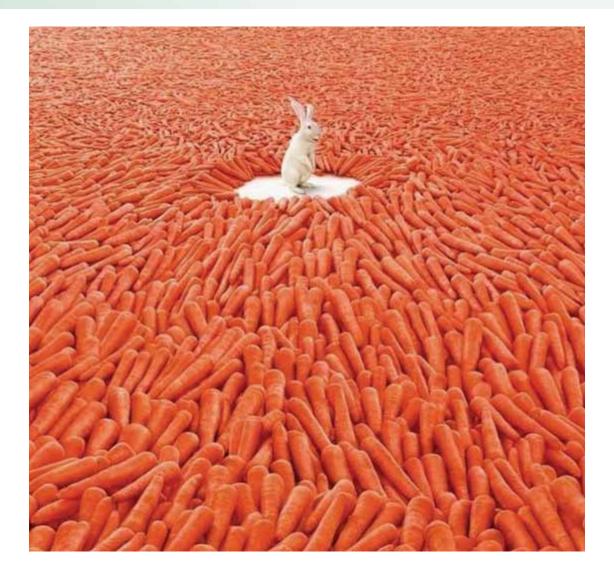
Tom Dorsey
President & CEO
Dorsey, Wright & Associates





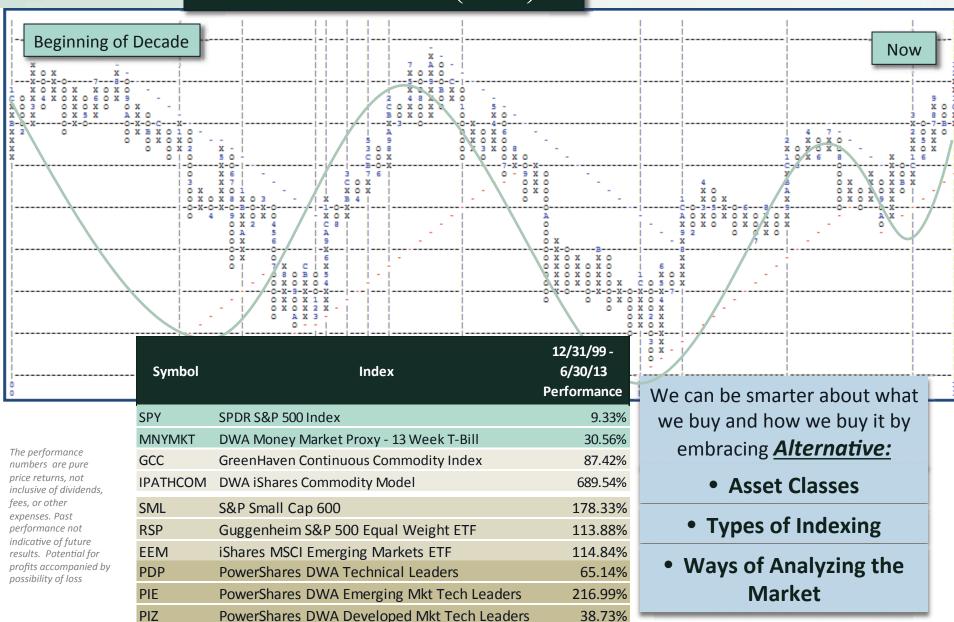






## Point & Figure Chart S&P 500 Index (SPX)





### **Supply & Demand**



- We all understand the basic forces of supply and demand.
- The same forces that affect prices in the supermarket also affect prices in the stock market.
- Stocks, sectors, and asset classes move in and out of favor just like produce in the supermarket.



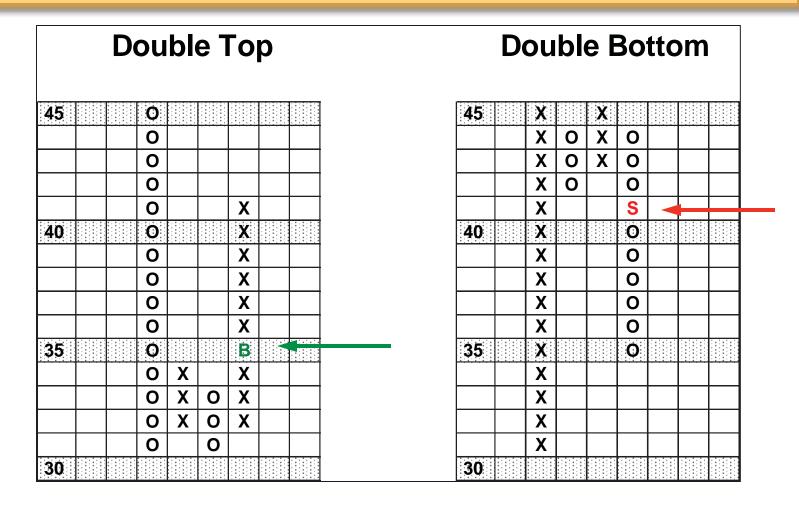




#### The 2 Most Basic Patterns



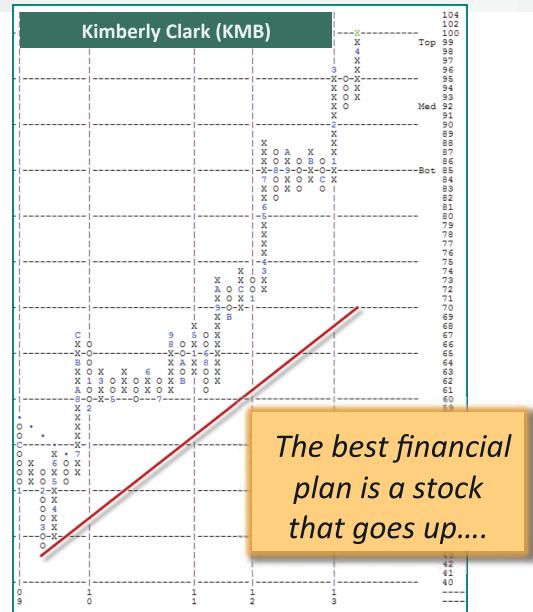
Understand these two patterns and you understand how to read any stock, mutual fund, ETF, relative strength or indicator chart DWA creates.

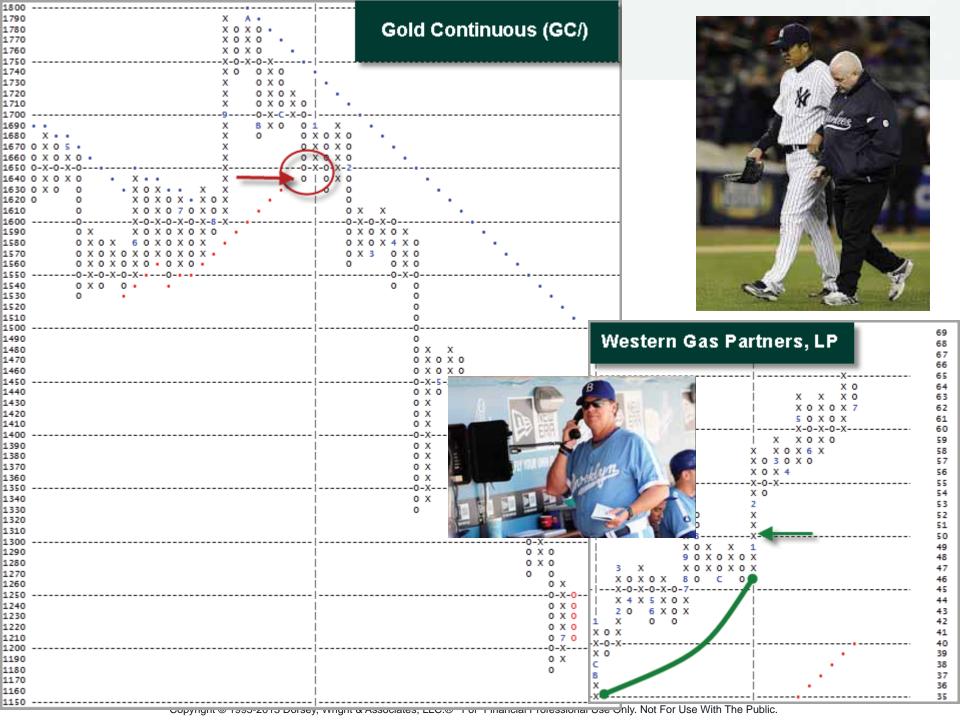


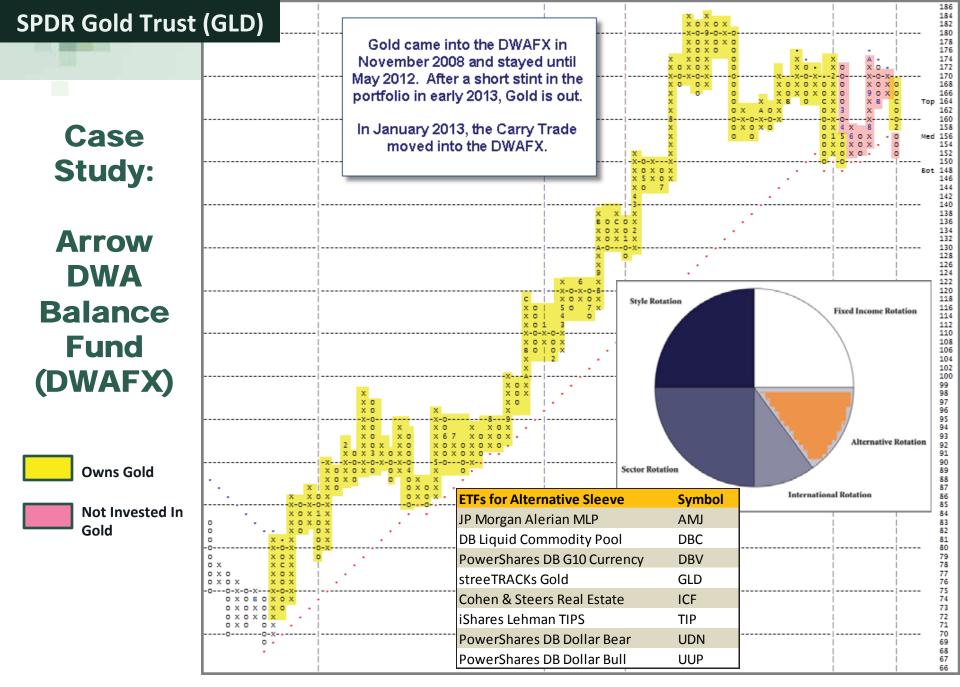


#### **Point & Figure Basics**

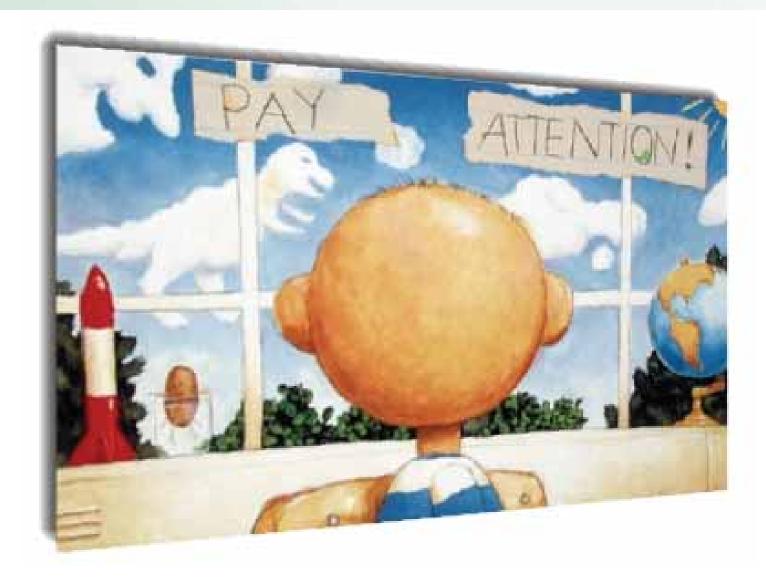
- X's = Price is rising
- O's = Price is falling
- Alternate columns of X's and O's
  - Minimum of 3 X's or O's in a column
- Time = First action in month use number (1 for January, etc.)
- Use daily high & low for charting price action











#### **Relative Strength Calculation**



- All major sports have a ranking system. The Point & Figure Relative Strength tool is the ranking system we use for Stocks, ETF's.
- Daily Calculation:

 This reading is plotted on a Point & Figure chart which then tells us whether we can expect that stock or ETF to outperform or underperform the base index.





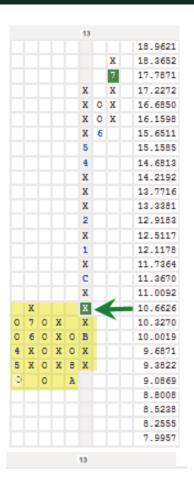




#### **DWA Relative Strength Process**



## Relative Strength Chart of Ruth Chris (RUTH) vs. Yum! Brands (YUM)





RUTH: 60.93 %

YUM: 3.62 %

#### **Relative Strength Calculation:**

 Stock
 RS Reading to

 ---- X 100 = Plot on a

 Stock
 P&F Chart



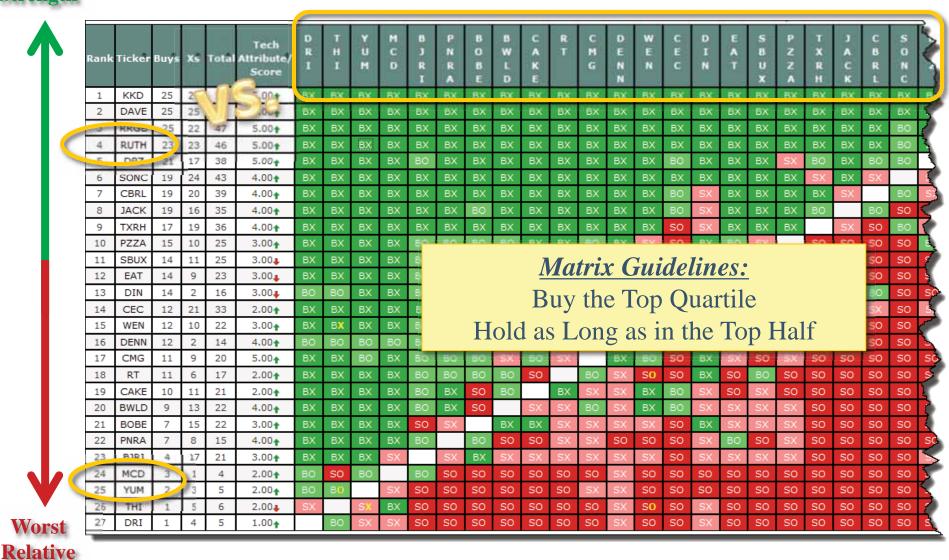


#### Best Relative Strength

Strength

#### **DWA Restaurant Matrix**





#### Flexibility & Adaptability





Commodity Real Estate MLPs



DWA
Point &
Figure
Strategy

Equities: US & Int'l

Fixed Income

## S&P 500 Index (SPX) vs.

#### **Barclays Aggregate Bond Index (AGG)**



The performance numbers above are pure price returns, based on the applicable index not inclusive of dividends, fees, or other expenses. Past performance not indicative of future results. Potential for profits accompanied by possibility of loss

## Asset Class Relative Strength Example

When RS Chart is on a <u>buy signal</u>, it suggests outperformance by the numerator (i.e. SPX).

Start Date	End Date	Signal	SPX	AGG
11/22/00	7/31/03	Sell	- 25.11%	23.16%
7/31/03	7/15/08	Buy	22.68%	1.84%
7/15/08	6/5/09	Sell	- 22.62%	- 0.69%
6/5/09	6/30/13	Buy	70.86%	7.15%
	-			

Buy and hold SPX: 21.47%
Buy and Hold AGG: 33.47%

**Switching:** 156.38%

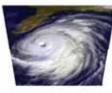
**RS Signal:** Buy = Outperformance of SPX to Bonds

**Sell = Underperformance of SPX to Bonds** 











#### **Events Affecting the Financial Markets Since 2000**

2000: Bursting of the dot.com, or technology, Bubble

2001: September 11<sup>th</sup> Terrorist Attacks

2001: Enron – Corporate Fraud

2002: dot.com Bubble Rears Its Head Again

2003: War on Terror and Iraq and Afghanistan

2005: Hurricane Katrina

2008: Sub-prime Housing Bubble

**Collapse of Financial Giants Bear Stearns & Lehman Brothers** 

**Bernard Madoff's Ponzi Scheme** 

2010: Greece & European Debt Crisis begins

2011: "Arab Spring" and the collapse of Egypt, Libya, and Syria.

**Euro Crisis** 

Will the next crisis be the bursting of the bond bubble? Or Something else?





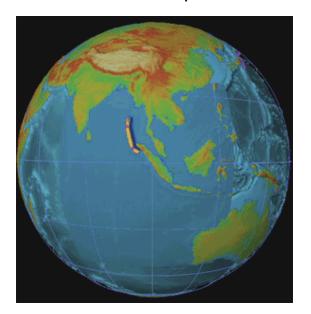








Seismoscope









#### **CRISIS**



#### D.A.L.I. Guidance



The Dynamic Asset Level Investing (DALI) evaluates the supply and demand forces of asset classes, and ranks them from strongest to weakest based on their relative strength score.







#### **Current DALI Overview**



As of 07/08/2013  Asset Class Date of last rank change	1 Domestic Equity 10/24/2011	2 International Equity 01/25/2013	3 Fixed Income 01/25/2013	4 Foreign Currency 12/19/2012	5 Cash 06/21/2012	6 Commodity 06/21/2012
Tally #( <u>History</u> ) Flex Pct.	<b>345</b> 32.0%	<b>219</b> 20.3%	<b>198</b> 18.4%	<b>132</b> 12.3%	<b>120</b> 11.1%	<b>63</b> 5.8%
Cash Pct. Rank	0%	40%	31%	<b>6</b> 75%	N/A -1%	84%
Trend Factor	2.156	1.064	0.613	0.190	N/A	0.284

## 'Great Rotation' wipes out \$120 billion of bond wealth

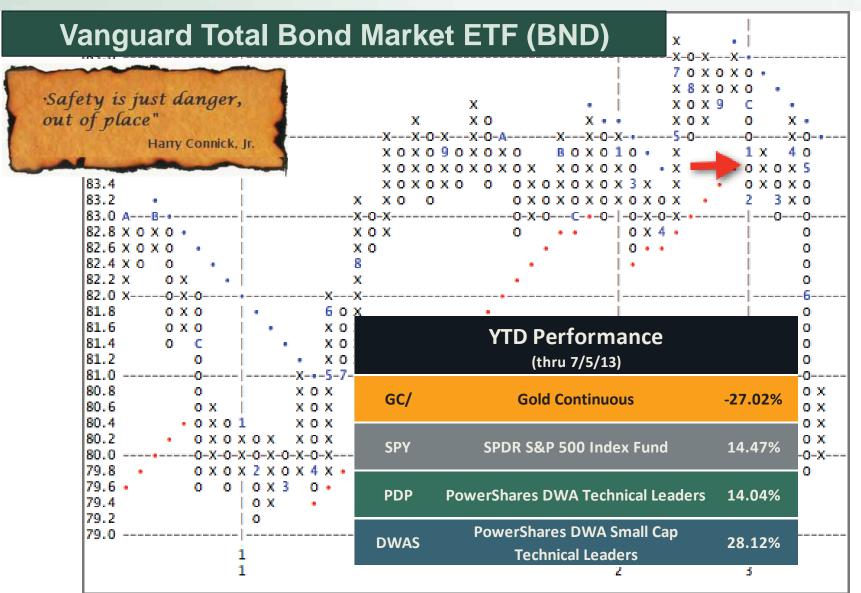
Commentary: The exodus from bonds has happened faster than anyone predicted, writes Thomas Kee.

Source: MarketWatch.com, July 8th 2013



#### Performance Since 1/25/13





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#### **Current DALI Overview**



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#### August – December 2011 Magazine Covers





#### 2 Different S&P 500 Indices



#### 40.8552 39.5692 38.3237 37.1173 35.9490 34.8174 8 33.7215 5 32.6600 6 0 4 31.6320 BOX 30.6363 1 A X 29.6720 8 B 28.7380 27.8334 O 4 26.9573 0 3 26.1088 A 8 25.2869 8 3 24.4910 2 X 23.7201 5 2 22.9734 6 X 22.2503 7 C 21.5499 A B 20.8716 C A 20.2146 3 5 19.5783 B X 18.9621 2 X 18.3652 3 17.7871 17.2272 16.6850 9 16.1598

#### X's = S&P 500 Equal Weight Index (RSP)

#### O's = S&P 500 Cap Weight (SPY)

Time Frame	SPY	RSP
January 4th 1994 - May 10th 2000	<u>196.05%</u>	123.29%
May 10th 2000 - October 23rd 2008	-33.62%	<u>-0.79%</u>
October 23rd 2008 - April 16th 2009	<u>-5.66%</u>	1.50%
April 16th 2009 - June 30th 2013	85.46%	<u>116.12%</u>

Time Frame	
S&P 500 Index (SPY)	243.84%
S&P 500 Equal Weighted Index (RSP)	385.94%
Switching Strategy	498.84%



VS.



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#### The Hole vs. The Drill





"People don't want to buy a quarter-inch drill. They want a quarter-inch hole!"

- Theodore Levitt

VS.





#### The Technical Leaders Index



#### Universe of Over 1500 Names



## Relative Strength Arm Wrestling Match





## Ranked Strongest to Weakest

#### **Top 10 Holdings (100 Total)**

Ticker	Company Name	% of Fund ▼
PCLN	priceline.com Inc	2.74%
STRZA	Starz	2.64%
GILD	Gilead Sciences Inc	2,59%
AMT	American Tower Corp	2.58%
GGP	General Growth Properties Inc	2.55%
ЈВНТ	JB Hunt Transport Services Inc	2.55%
ARG	Airgas Inc	2.44%
TRW	TRW Automotive Holdings Corp	2.41%
VTR	Ventas Inc	2.37%
PCP	Precision Castparts Corp	1.90%



#### **Technical Leaders Family of ETFs**



DWA's 1<sup>st</sup> ETF was PDP, which launched in March 2007. The Technical Leaders products have proven to meet a *market* need, with current AUM exceeding \$1.6 Billion.

PowerShares DWA Technical Leaders (PDP) 3/1/07

Small Cap Technical Leaders (DWAS) 7/19/12

## Technical Leaders ETFs

Emerging Markets Technical Leaders (PIE) 12/28/07



Developed Markets Technical Leaders (PIZ) 12/28/07





#### **The Power of Relative Strength**



Return Data thru 6/30/13	Inception Date	YTD 2013	2012	3 Yr Roll	
PowerShares DWA Technical Leaders Index (PDP)	3/1/2007	11.86%	17.16%	69.91%	
S&P 500 (SPX)		12.63%	13.41%	55.84%	

Return Data thru 6/30/13	Inception Date	YTD 2013	7/19/12 - 6/30/13
PowerShares DWA Small Cap Technical Leaders Index (DWAS)	7/19/2012	25.44%	30.10%
iShares S&P Small Cap 600 Index (IJR)		17.43%	22.19%
iShares Russell 2000 Index (IWM)		16.91%	21.33%

Return Data thru 6/30/13	Inception	YTD	2012	3 Yr Roll
Return Duta thru 6/30/13	Date	2013	2012	5 ff Kuli
PowerShares DWA Emerging Markets Technical Leaders Index (PIE)	12/28/2007	-2.37%	16.62%	28.92%
iShares MSCI Emerging Markets Index (EEM)		-12.92%	16.90%	3.16%
Vanguard MSCI Emerging Markets ETF (VWO)		-12.71%	16.54%	2.26%

Return Data thru 6/30/13	Inception Date	YTD 2013	2012	3 Yr Roll
PowerShares DWA Developed Markets Technical Leaders (PIZ)	12/28/2007	6.06%	<b>15.28%</b>	30.57%
iShares MSCI EAFE Index (EFA)		1.72%	14.80%	23.20%
Vanguard MSCI EAFE ETF (VEA)		1.93%	15.02%	22.16%

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#### Power of the Group



#### Lesson:

Four "trends" can be better than one.

#### <u>Swimming</u>

800m Freestyle World Record

Zhang Lin
7:32.12 seconds

4x200m Freestyle World Record
Team United States
6:58.55 seconds



## Track & Field 400 meter World Record

Michael Johnson 43.18 seconds

4x100 meter World Record

Team Jamaica 36.84 seconds





#### How Big of a Slice of PIE?





June 30th 2010 - June 30th 2013							
ETF	Return						
Vanguard FTSE Emerging Markets (VWO)	2.26%						
PowerShares DWA Emerging Markets Technical Leaders (PIE)	28.92%						



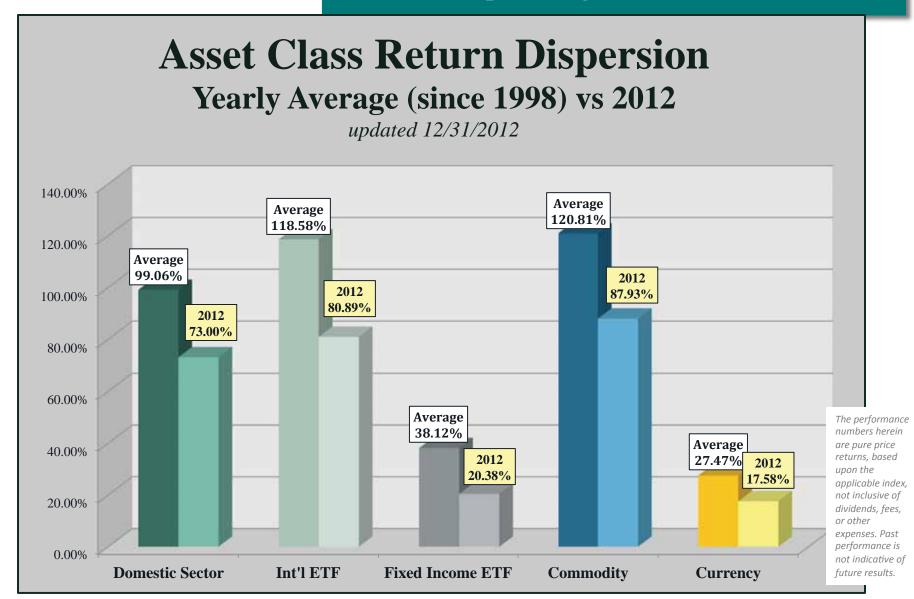
#### June 30th 2010 - June 30th 2013

Vanguard FTSE Emerging Markets (VWO)	2.26%	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	0%
PowerShares DWA Emerging Markets Tech Leaders (PIE)	28.92%	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Portfolio Return		2.26%	4.93%	7.59%	10.26%	12.92%	15.59%	18.26%	20.92%	23.59%	26.25%	28.92%

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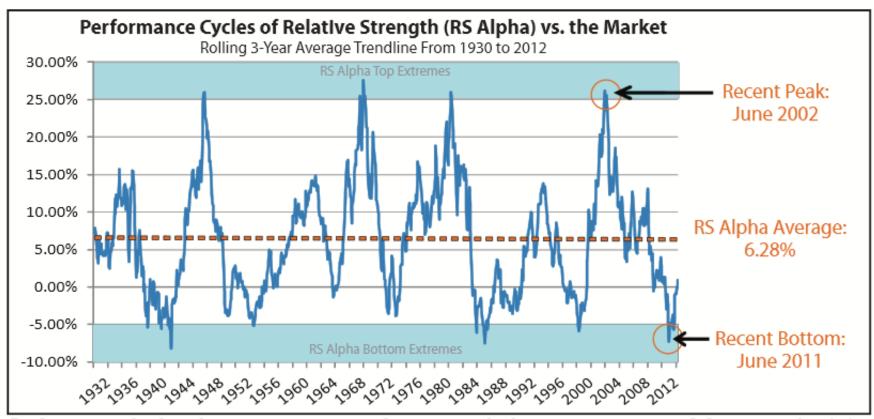
## Characteristics of Relative Strength: Capitalizing on Differentials





#### A Time for RS Strategies



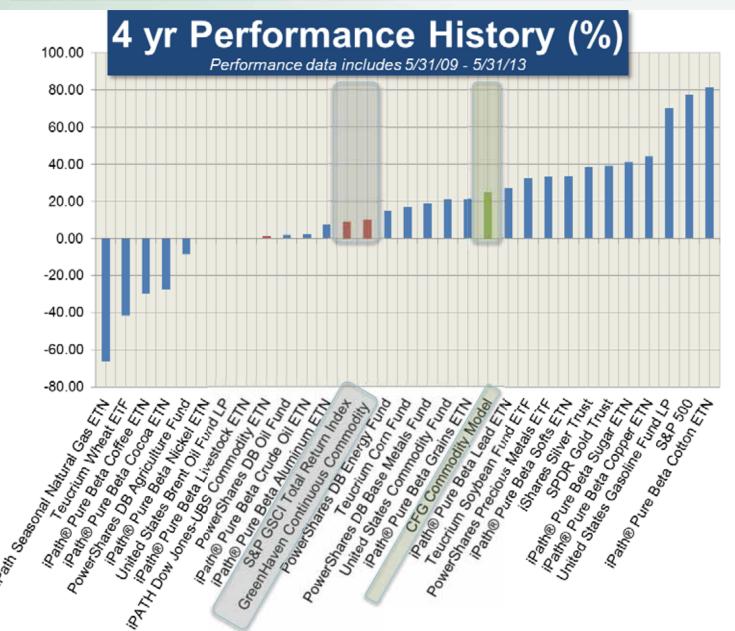


Performance displayed represents past performance, which is no guarantee of future results. Index performance assumes reinvestment of dividend, but does not include fees. Indexes are generally not available for direct investment. Relative Strength (RS Alpha) is represented by the 3-year rolling average performance for a long-term RS model. versus the market (S&P 500 Index). Source: Standard & Poor's, calculated by Arrow.

Source: http://www.arrowfunds.com/files/DDF/Arrow Insights RS Turns.pdf

#### **Navigating Multiple Market Cycles**





Over time, relative strength-driven portfolios are designed to adapt in a way traditional benchmark indexes don't.

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## Applying Relative Strength to the Commodity World



NaturalGas
CoreCommodities
Lead BrentOil



### Model Construction

Begin with a commodity Inventory



Eliminate market laggards



Systematically construct portfolio of Leaders

#### **How Rotation Takes Place**

Sample Commodity Rankings (7/12/13)



Rank	Ticker -	Buys	Xs	Tot Combo	Tech Attrib/ Score	S L V	J J P	I A U	) 0	J J N	J C	J J S	J J M	
1	OIL	20	21	41	3.10	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B</u> [
2	BAL	19	16	35	2.96	<u>B</u> <u>0</u>	<u>B</u> <u>0</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	B
3	DJE	18	18	36	1.10	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	B X
4	LD	18	8 +	26	1.25	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B 0</u>	<u>B X</u>	<u>B O</u>	<u>S 0</u>	<u>B 0</u>	В
5	GSP	16	20	36	1.13	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	E
6	COW	15	12 *	27	1.68	<u>B 0</u>	<u>B</u> <u>0</u>	<u>B</u> <u>0</u>	<u>B X</u>	<u>B O</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	BX
7	JJG	14 +	5 🕈	19	0.38	<u>B 0</u>	<u>B 0</u>	<u>B O</u>	<u>B O</u>	<u>S X</u>	<u>B O</u>	<u>B O</u>	<u>B 0</u>	
8	JJA	14 *	5 *	19	0.27	<u>B O</u>	<u>B O</u>	<u>B</u> <u>@</u>	<u>B O</u>	<u>B X</u>	<u>B O</u>	<u>B X</u>	<u>B O</u>	BÒ
9	NIB	13	10	23	0.92	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B O</u>	<u>S X</u>	<u>B O</u>	<u>B O</u>	<u>B 0</u>	<u>B X</u>
10	DWAIPATH	11	12	23	N/A	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B O</u>	<u>B X</u>	<u>B X</u>	<u>B 0</u>	<u>B</u> <u>Y</u>
11	DJP	10	13 🕈	23	0.20	<u>B O</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B</u> i
12	TCC	10	6	16	1.36	<u>B O</u>	<u>B_0</u>	<u>B X</u>	<u>S</u> X	<u>B O</u>	<u>B O</u>	<u>B O</u>	<u>B O</u>	1
13	SGG	10	0	10	0.06	<u>B O</u>	<u>B O</u>	<u>B O</u>	<u>B O</u>	<u>B O</u>	<u>B O</u>	<u>S 0</u>	<u>B O</u>	<u> </u>
14	טננ	9	12	21	0.17	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B O</u>	<u>S X</u>	ightharpoons
15	MCC	8	12	20	0.20	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>S 0</u>	<u>B O</u>		<u>B</u> C
16	JJS	7	9 +	16	0.38	<u>B O</u>	<u>B</u> <u>0</u>	<u>B</u> <u>0</u>	<u>B X</u>	<u>B 0</u>	<u>5 0</u>		<u>B X</u>	3
17	JJC	6	11	17	0.18	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B X</u>	<u>B O</u>		<u>S 0</u>	<u>B X</u>	<u>_</u>
18	אננ	5	5	10	0.07	<u>B</u> <u>0</u>	<u>B X</u>	<u>B X</u>	<u>S 0</u>		<u>S O</u>	<u>S</u> <u>X</u>	<u>S 0</u>	S
19	10	3	6 *	9	0.03	<u>B 0</u>	<u>5 0</u>	<u>5 0</u>		<u>B X</u>	<u>S O</u>	<u>S 0</u>	<u>S 0</u>	sg
20	IAU	2	1 8	10	1.42	<u>B X</u>	<u>S X</u>		<u>B X</u>	<u>s o</u>	<u>S O</u>	<u>S</u> X	<u>S O</u>	S
21	JJP	2	1 8	10	0.36	<u>B X</u>		<u>S O</u>	<u>B X</u>	<u>s o</u>	<u>S O</u>	<u>S</u> <u>X</u>	<u>S 0</u>	3
22	SLV	0	11	11	0.47		<u>S 0</u>	<u>s o</u>	<u>S X</u>	<u>S</u> X	<u>s o</u>	<u>S X</u>	<u>s o</u>	<u> </u>

Established Market
Leaders

Current Tactical Holdings

Established Market Laggards

#### **DWA iPath Model Returns**



Time Frame (all returns are thru 6/30/13)	DWA iPath Model	Equal Weighted Index of iPath Commodity ETFs /
Year To Date	-3.56%	-11.14%
1 Year	-9.12%	-11.35%
3 Year	10.80%	-2.78%
5 Year	-13.28%	-33.17%
Returns since 12/31/99	689.54%	110.59%
Returns since 12/31/93	1810.00%	191.46%



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# Education is not the filling of a pail, but the lighting of a fire.

--William Butler Y eats





The hypothetical returns of strategies discussed use the returns of other indices. The hypothetical returns have been developed and tested by Dorsey, Wright & Associates ("DWA"), but have not been verified by any third party and are unaudited. The performance of the strategy was achieved by means of retroactive application of a model designed with hindsight. For the hypothetical strategy, returns do not present actual trading or reflect the impact that material economic and market factors might have had on the advisor's decision-making under actual circumstances. The volatility of the strategy may be different than the volatility of the S&P 500 index. DWA does not endorse the selections or percentages for the model testing which is at the sole discretion of the advisor.

Actual performance of an account following this strategy may differ from the performance of the hypothetical portfolio for the following reasons: the Account may not be fully invested at all times; not all stocks / ETFs / mutual funds in the Account may be weighted equally at all times due to appreciation or depreciation in value; or in managing the Accounts, and the advisor may make modifications to the Strategy that is outlined in the testing criteria.

The returns of the strategies do not include dividends for stocks or ETFs but do account for distributions in mutual funds. Returns of the strategies do not include any fees or transaction costs. Past performance, hypothetical or actual, does not guarantee future results. In all securities trading there is a potential for loss as well as profit. It should not be assumed that recommendations made in the future will be profitable or will equal the performance as shown. Investors should have long-term financial objectives.

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Past performance is not indicative of future results. Potential for profits is accompanied by possibility of loss. You should consider this strategy's investment objectives, risks, charges and expenses before investing. The examples and information presented do not take into consideration commissions, tax implications, or other transaction costs.

Each investor should carefully consider the investment objectives, risks and expenses of any Exchange-Traded Fund ("ETF") prior to investing. Before investing in an ETF investors should obtain and carefully read the relevant prospectus and documents the issuer has filed with the SEC. ETF's may result in the layering of fees as ETF's impose their own advisory and other fees. To obtain more complete information about the product the documents are publicly available for free via EDGAR on the SEC website (http://www.sec.gov).

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