

---

# Strategies Using Technical Analysis Tools in Equity Investing and Trading

David Nicoski  
Chief Technical Strategist

June 12, 2019



## Firm Overview

---

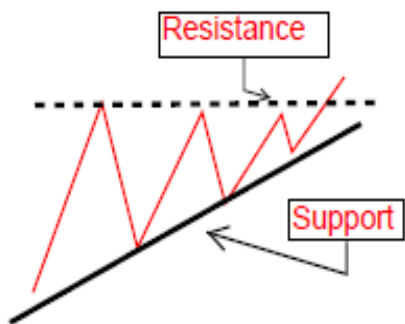
- Vermilion Research is a global independent research company
- Founded in 2005
- Our U.S. research covers 5,000+ actively-traded stocks, and over 1,300 ETFs
- Our International research covers 6,000+ actively-traded, local-currency stocks across 45 exchanges
- Team has received numerous All-America Research Team citations by Institutional Investor and other industry distinctions, including Best Independent Research House by *the technical analyst* publication.

# Technical Analysis – What is it?

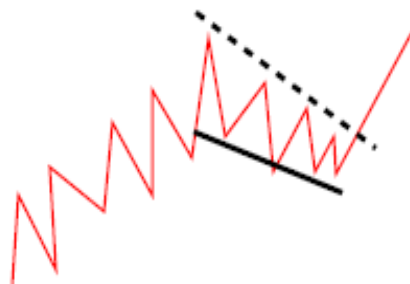
---

- The study of price and volume relationships as a means to gain insight into stock market and individual stock trends.
- The underlying premise of technical analysis is that investors' perceptions toward a sector, group, or stock drive the supply and demand.
- A pattern of movement establishes a trend.
- Therefore, inflections or trend violations may occur and forecast changes in the future direction of stock prices.

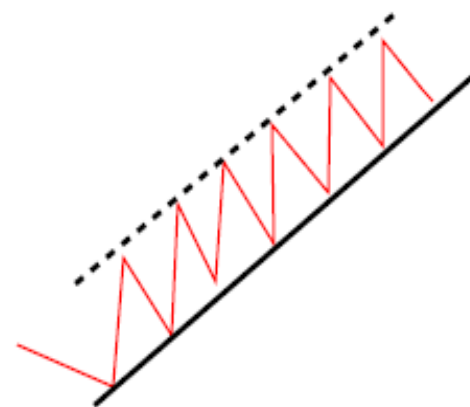
# Pattern Recognition: Bullish Patterns



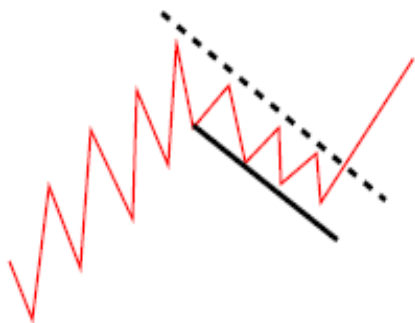
Ascending triangle



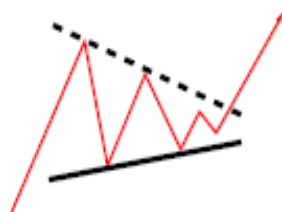
Pennant



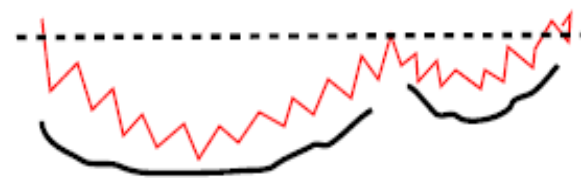
Uptrend channel



Bullish flag



Symmetrical triangle

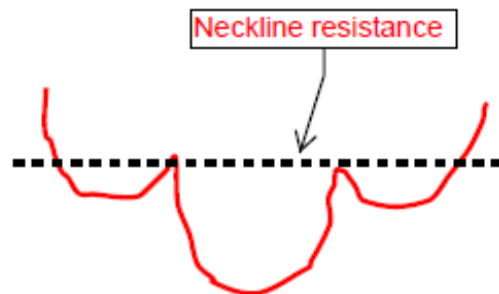


Cup & Handle

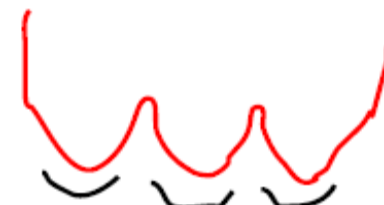
# Pattern Recognition: Bullish Reversal Patterns



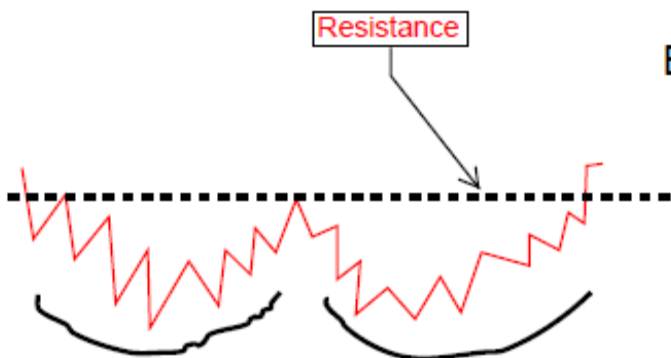
Rounding bottom



Head-and-shoulders bottom



Triple bottom

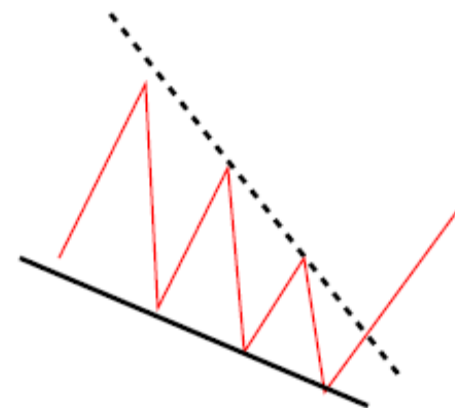


Double bottom

## Bullish reversal patterns

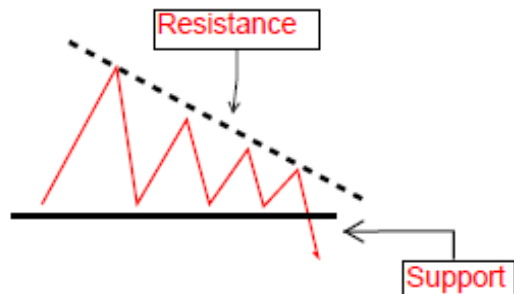


"V" reversal

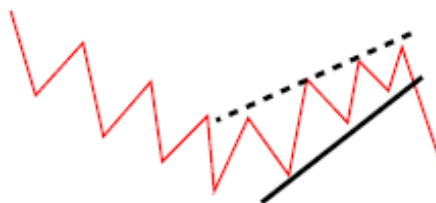


Falling wedge

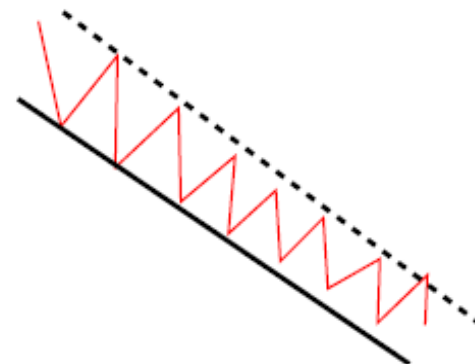
# Pattern Recognition: Bearish Patterns



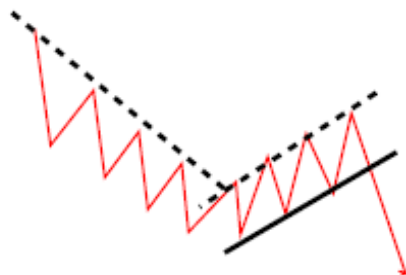
Descending triangle



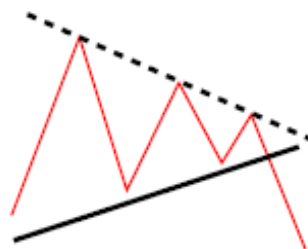
Pennant



Downtrend channel

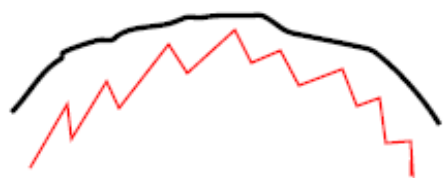


Bearish flag

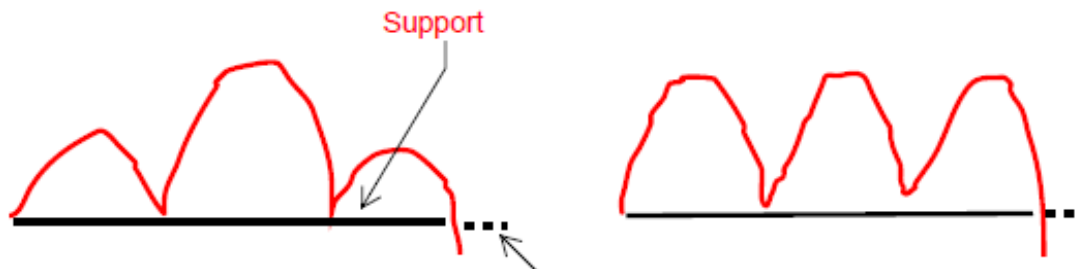


Symmetrical triangle

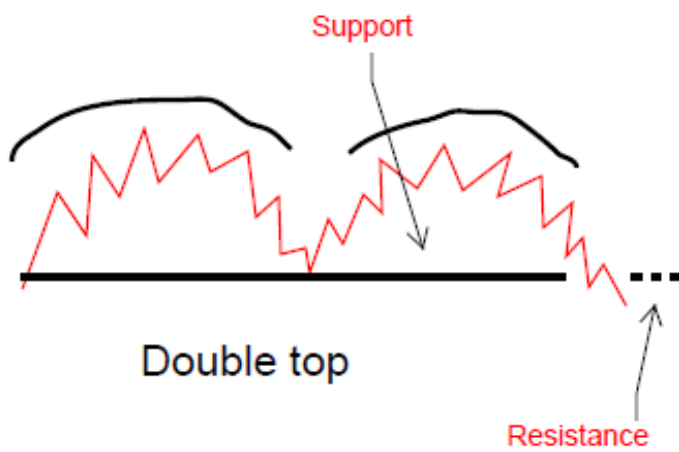
# Pattern Recognition: Bearish Reversal Patterns



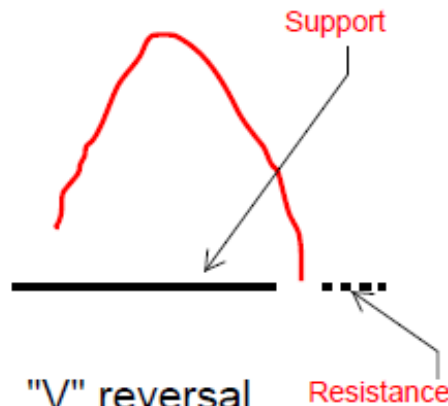
Rounding top



Head-and-shoulders top

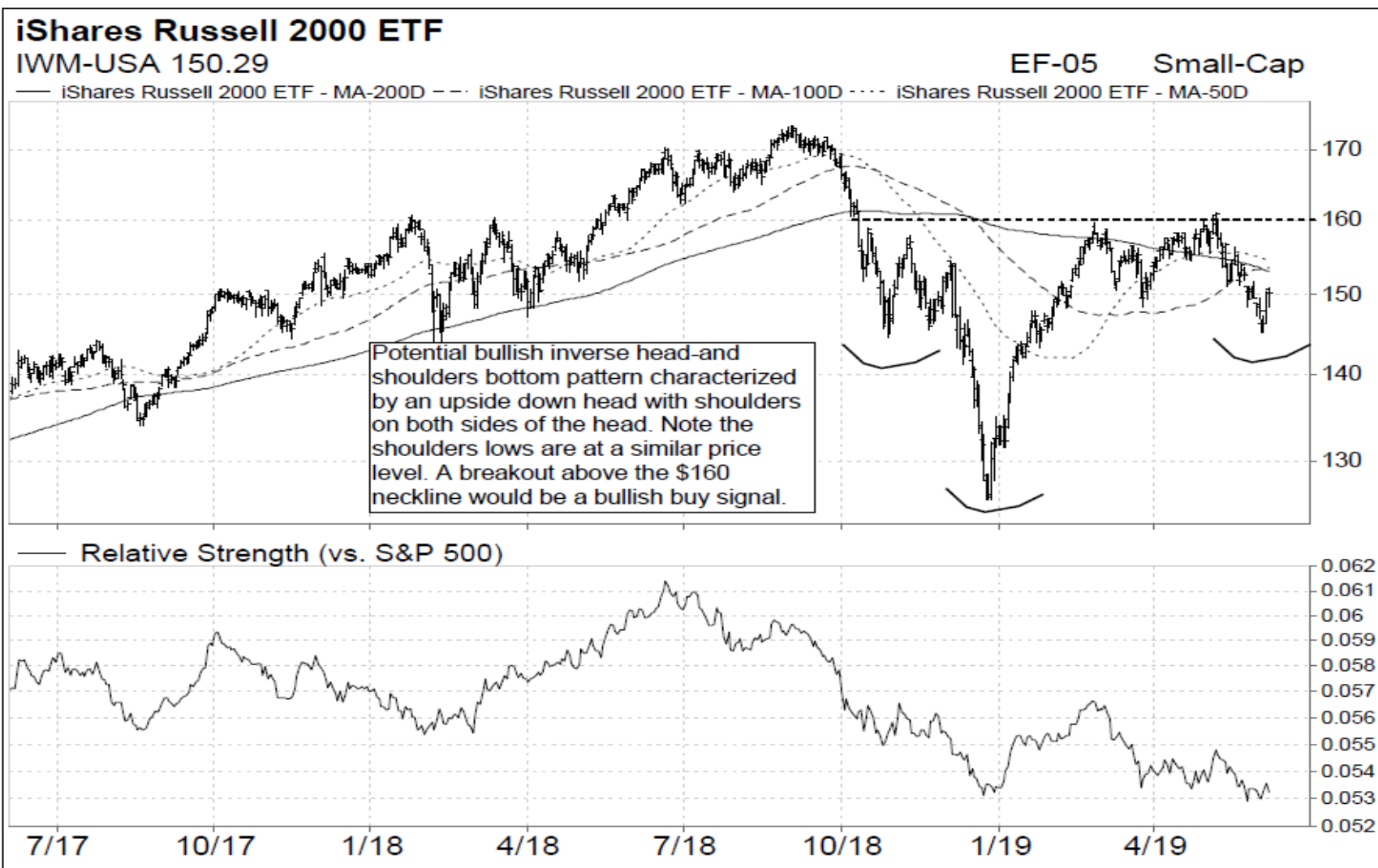


Double top



"V" reversal

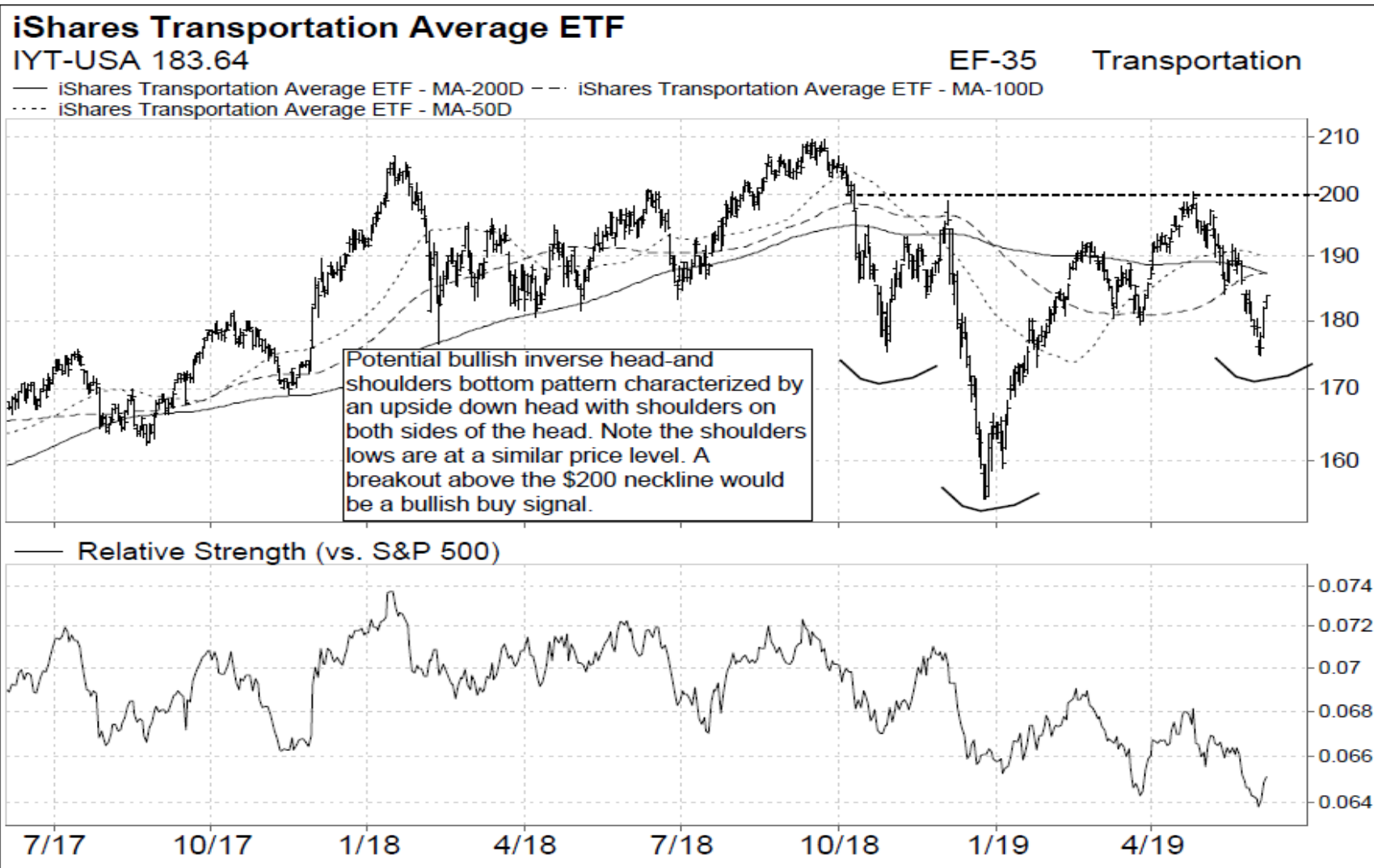
# Inverse head-and-shoulder bottom patterns



Source: FactSet

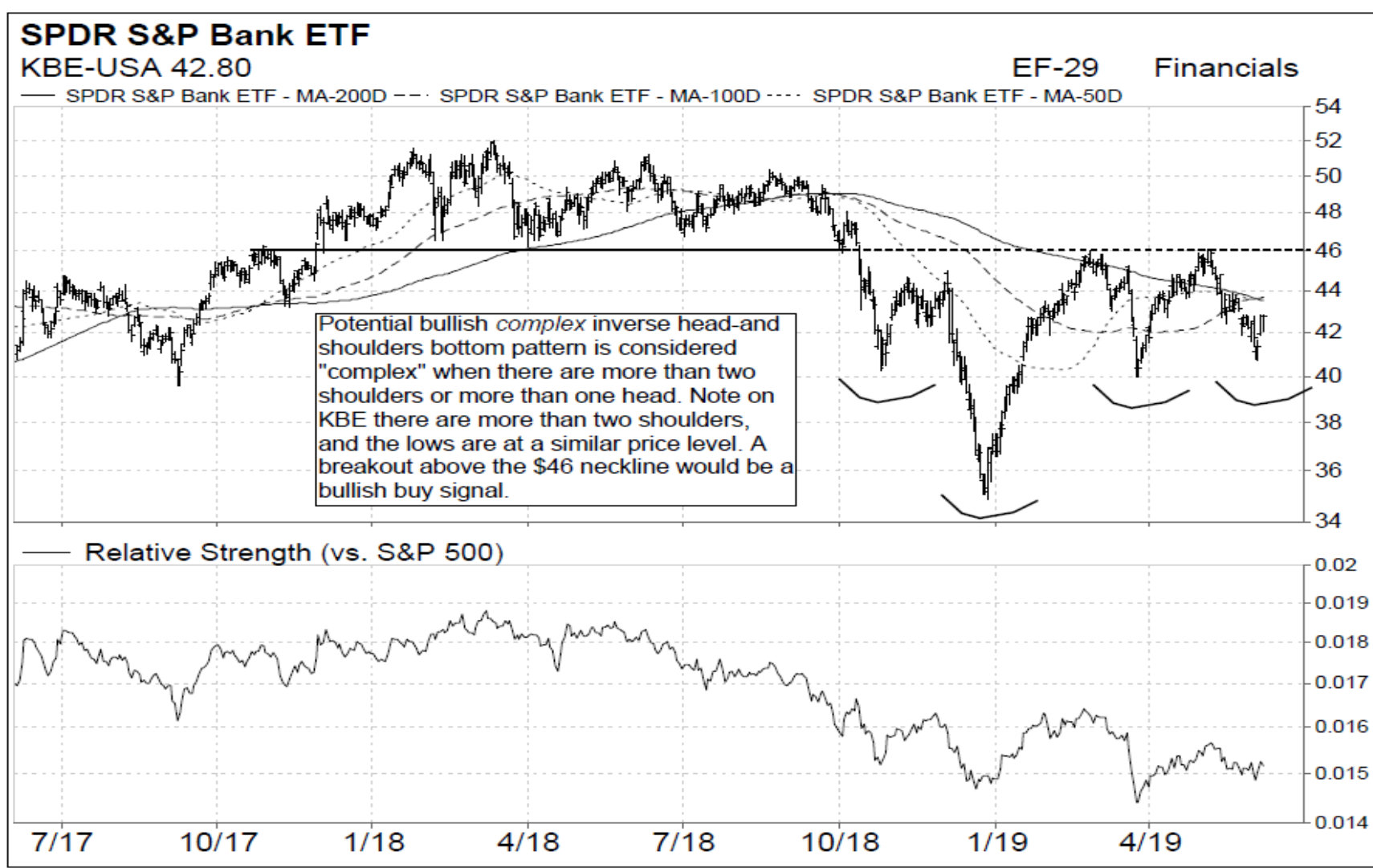


# Inverse head-and-shoulder bottom patterns



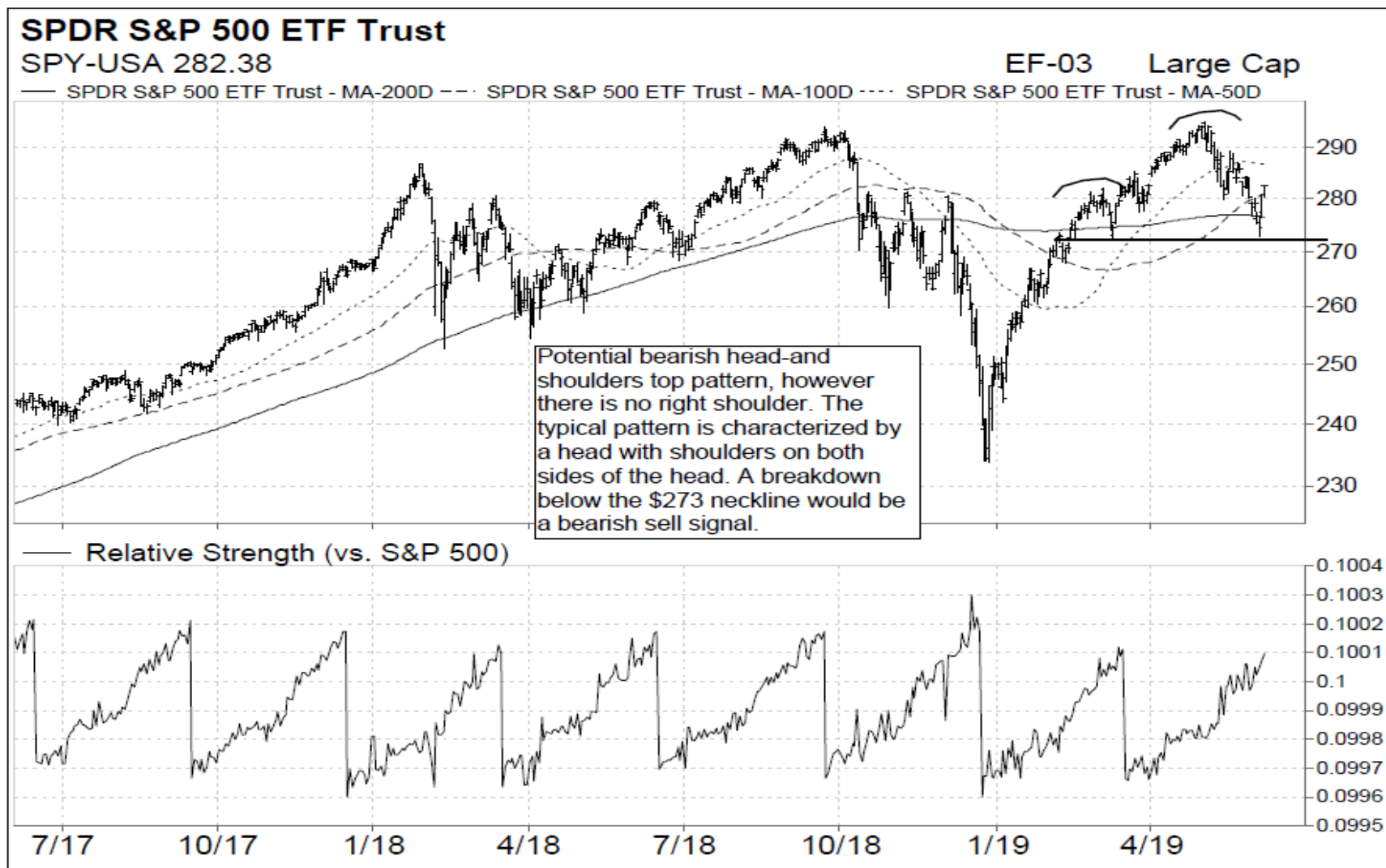
Source: FactSet

# Complex inverse head-and-shoulder bottom pattern



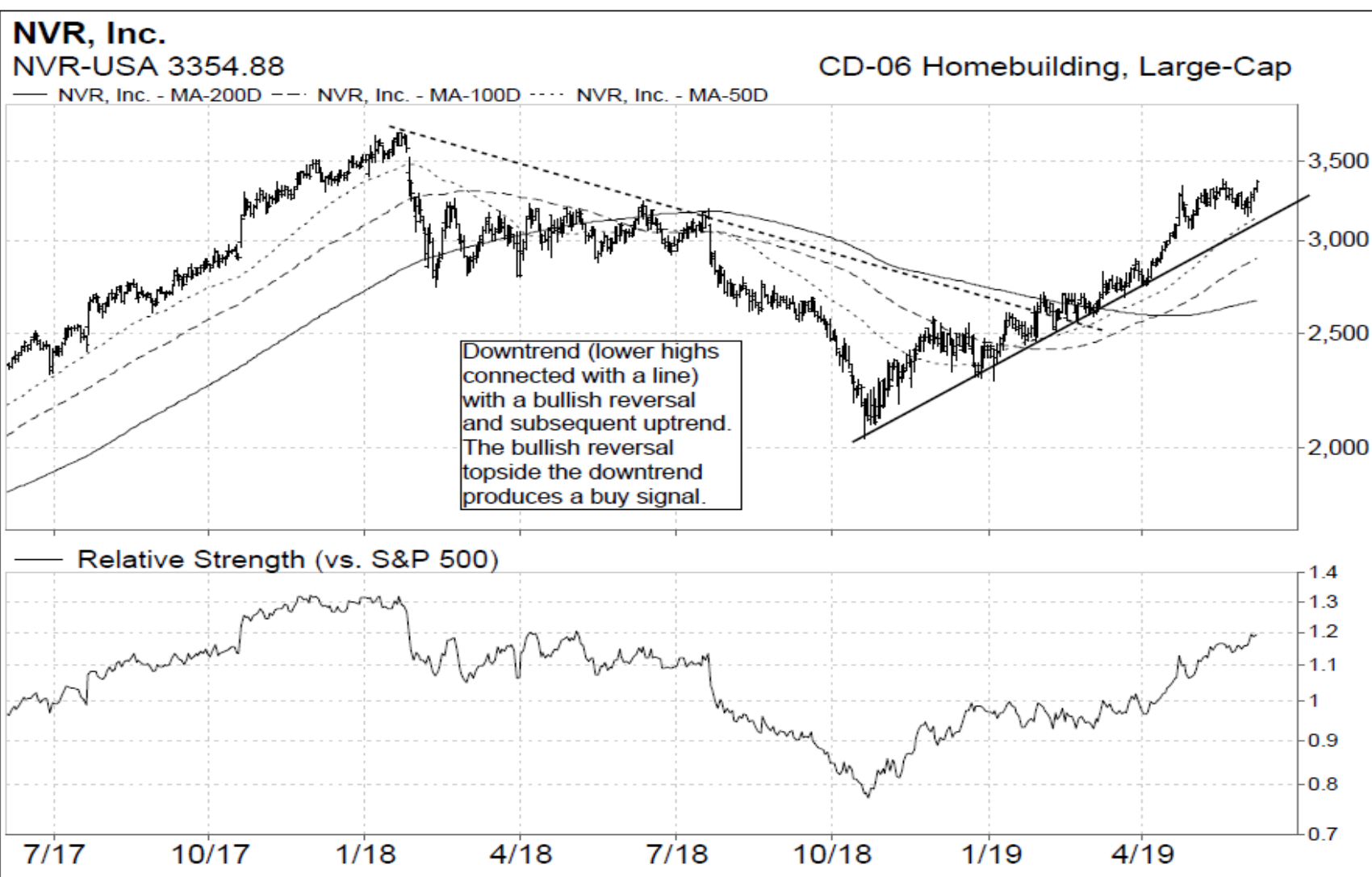
Source: FactSet

# Potential head-and-shoulders top – at neckline



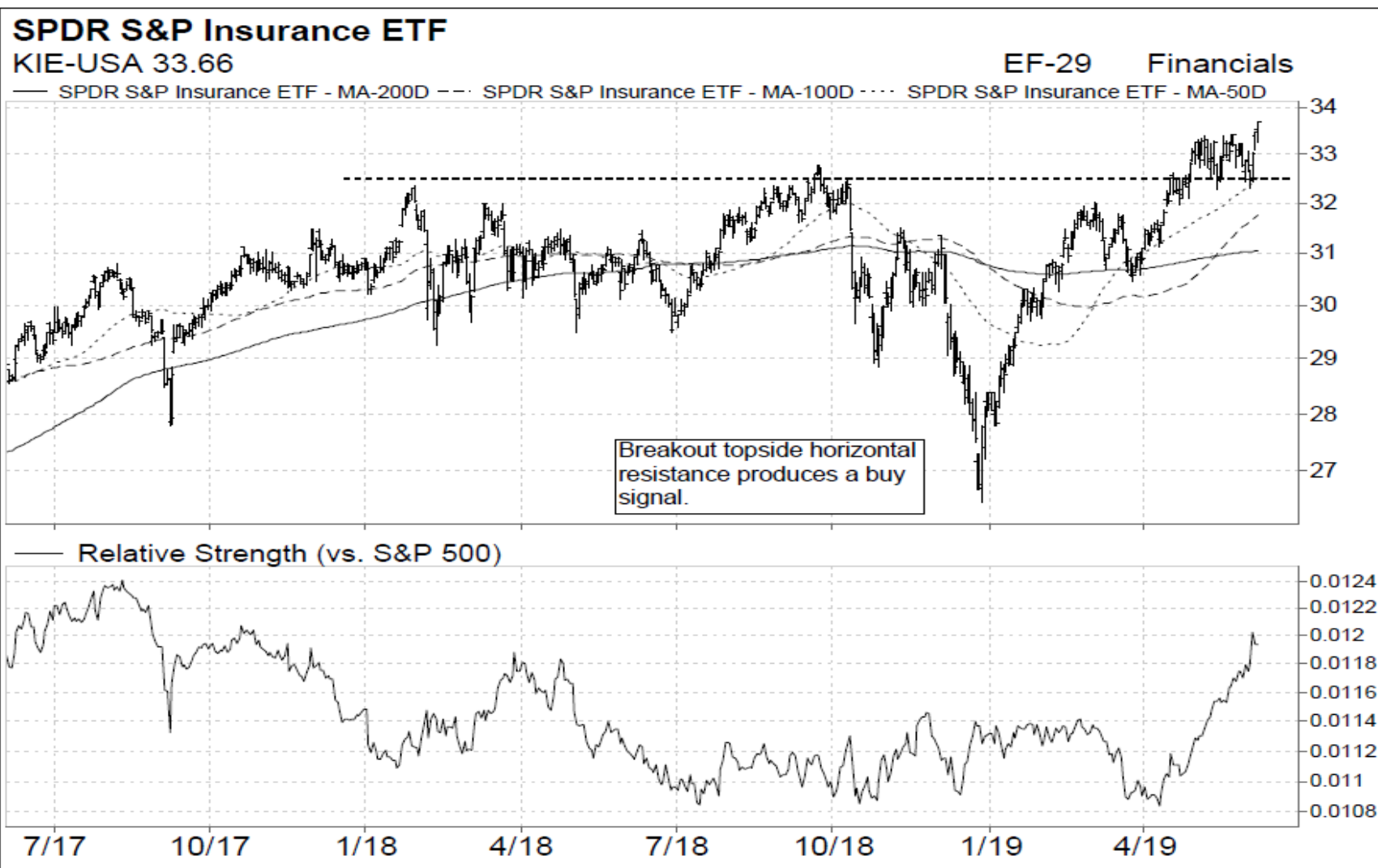
Source: FactSet

# Downtrend with bullish reversal and subsequent uptrend



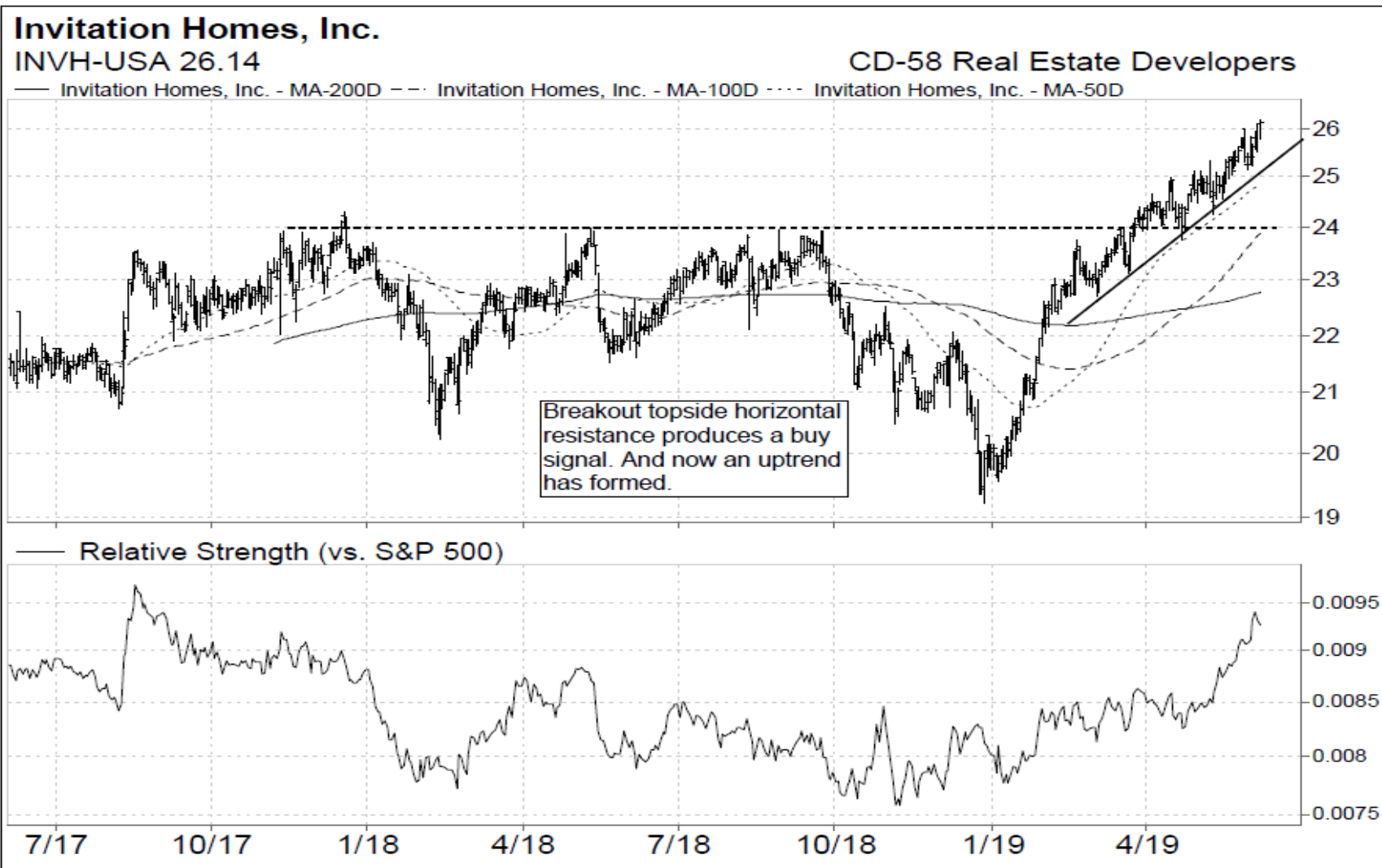
Source: FactSet

# Breakout topside a base



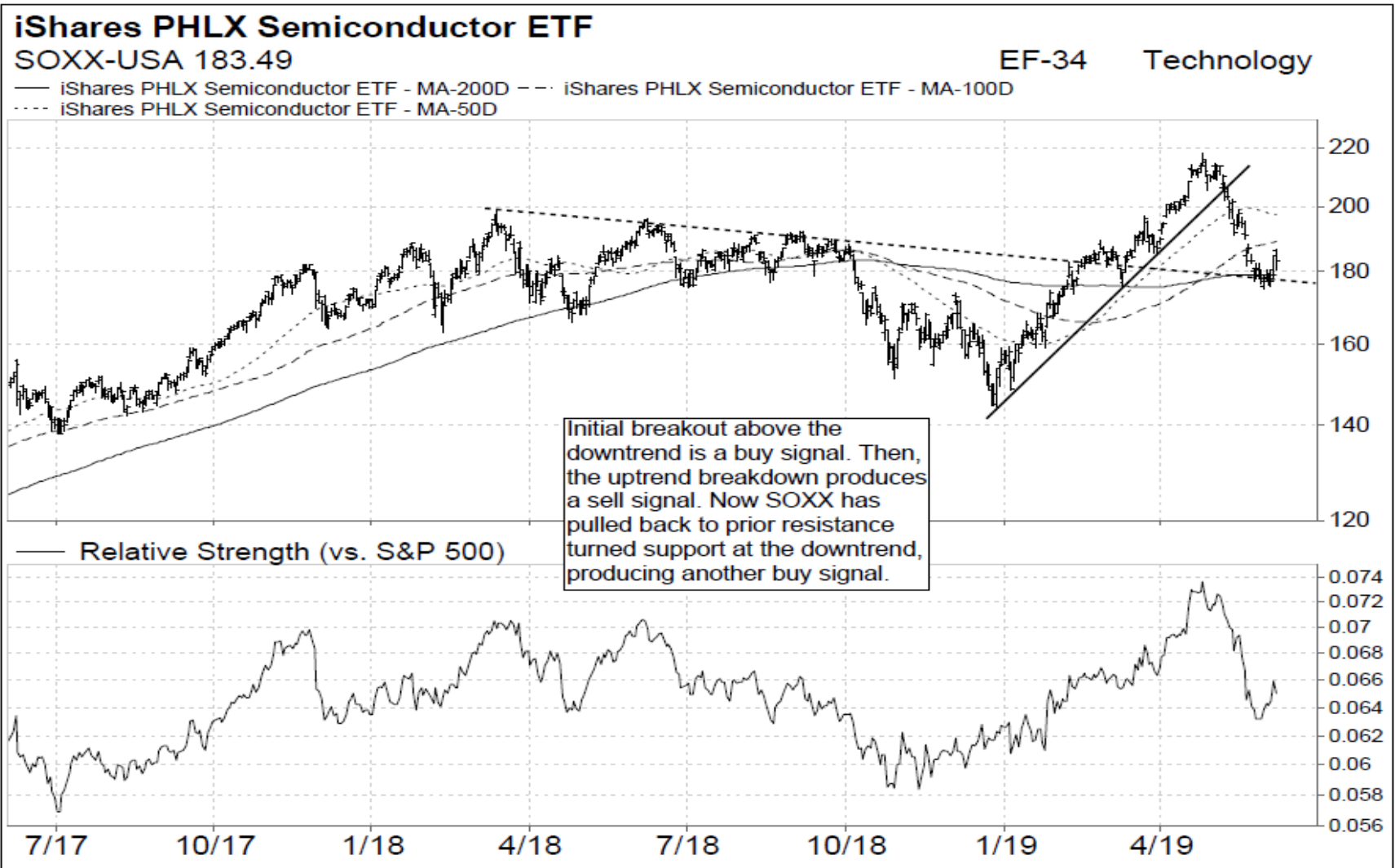
Source: FactSet

# Breakout topside a base



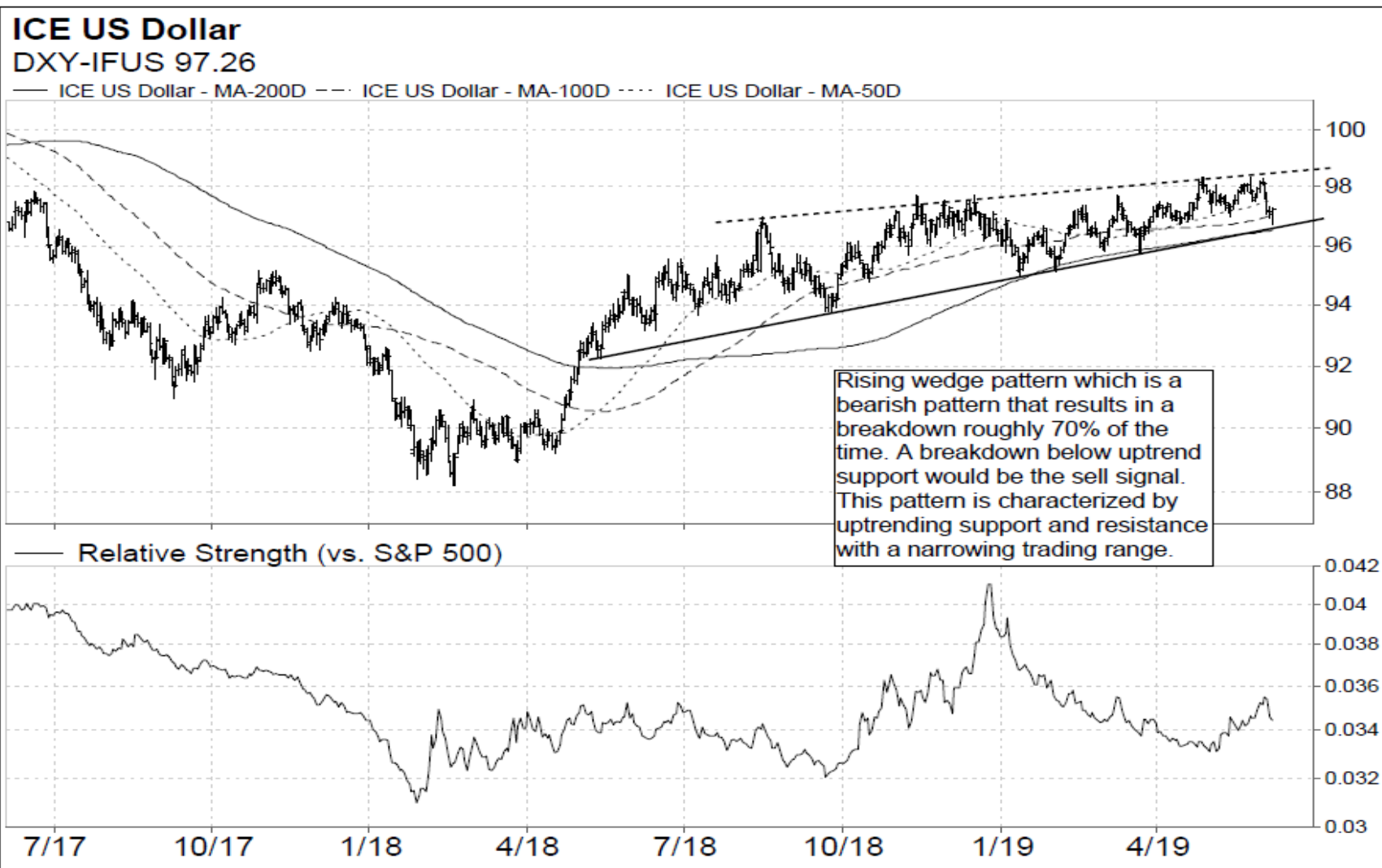
Source: FactSet

# Uptrend breakdown and subsequent pullback to prior resistance turned support



Source: FactSet

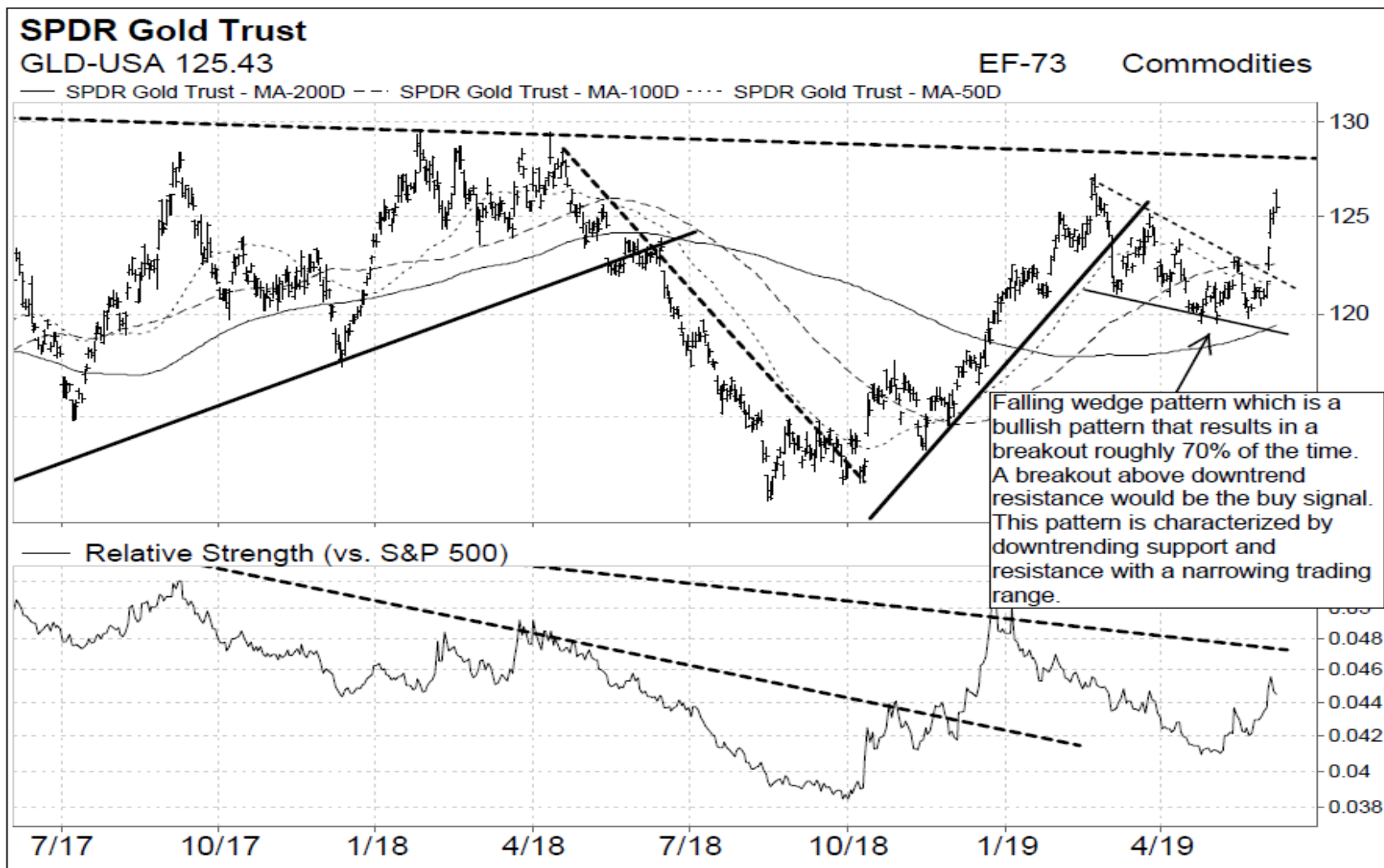
# Rising wedge



Source: FactSet

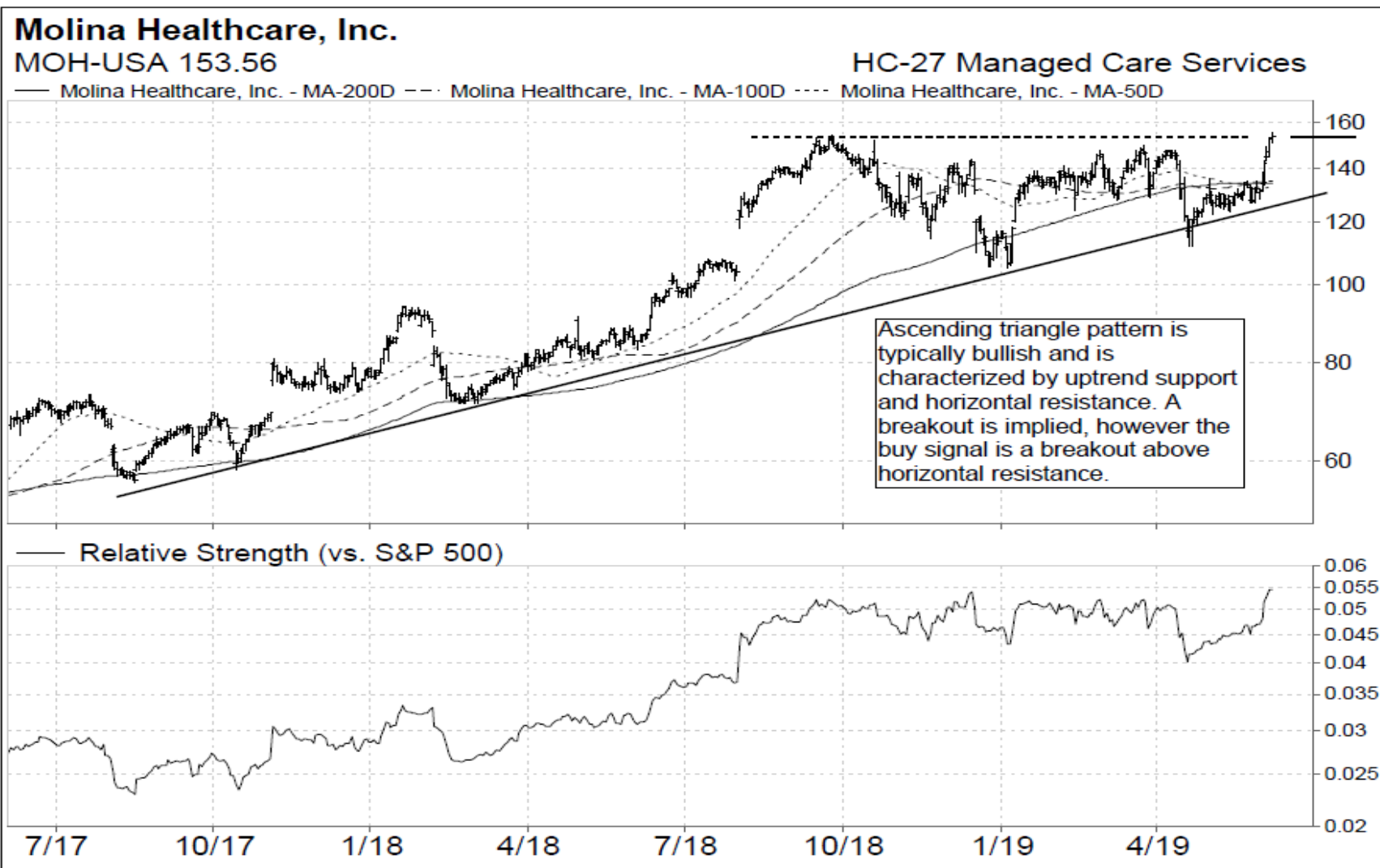


# Falling wedge



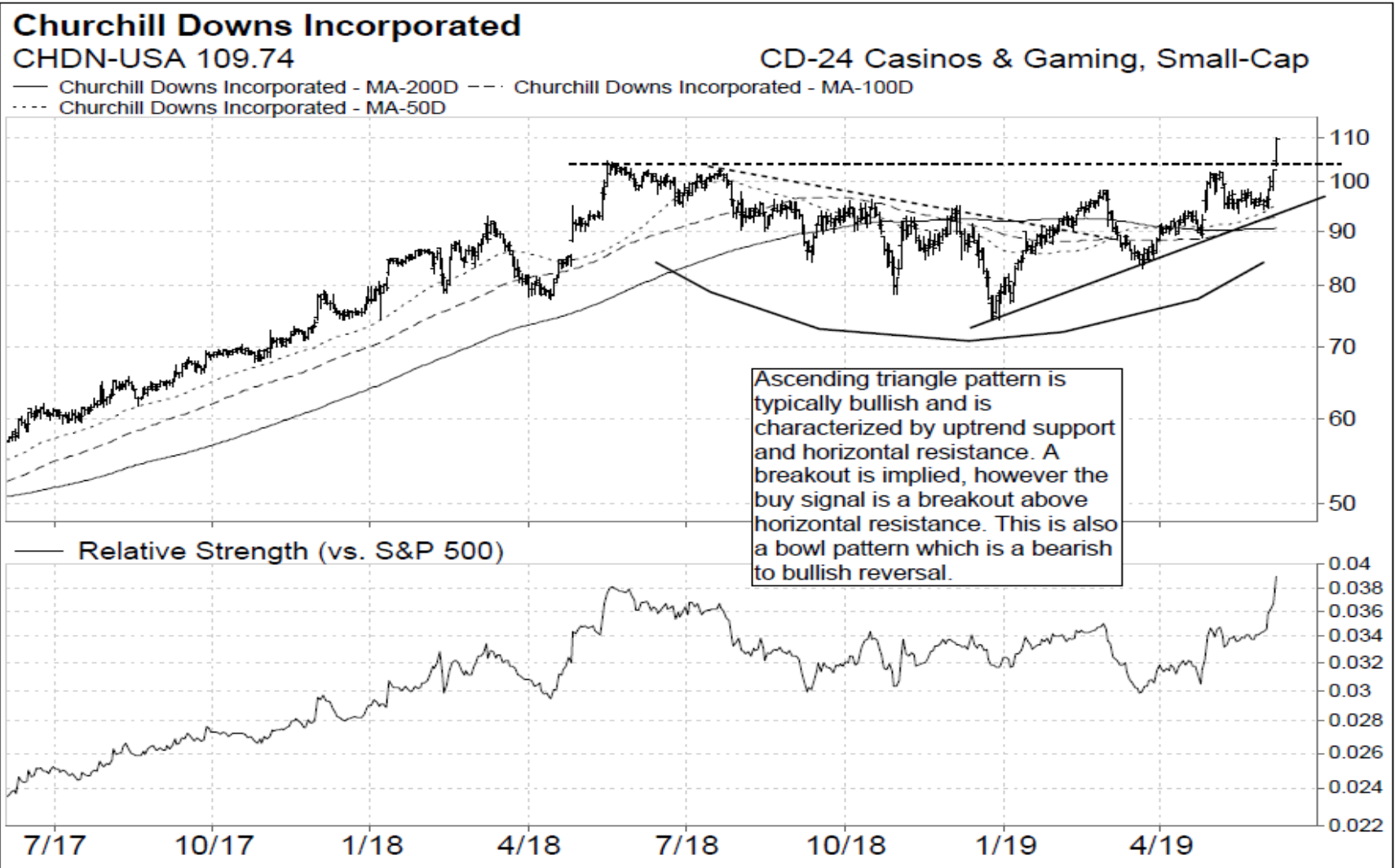
Source: FactSet

# Ascending triangle



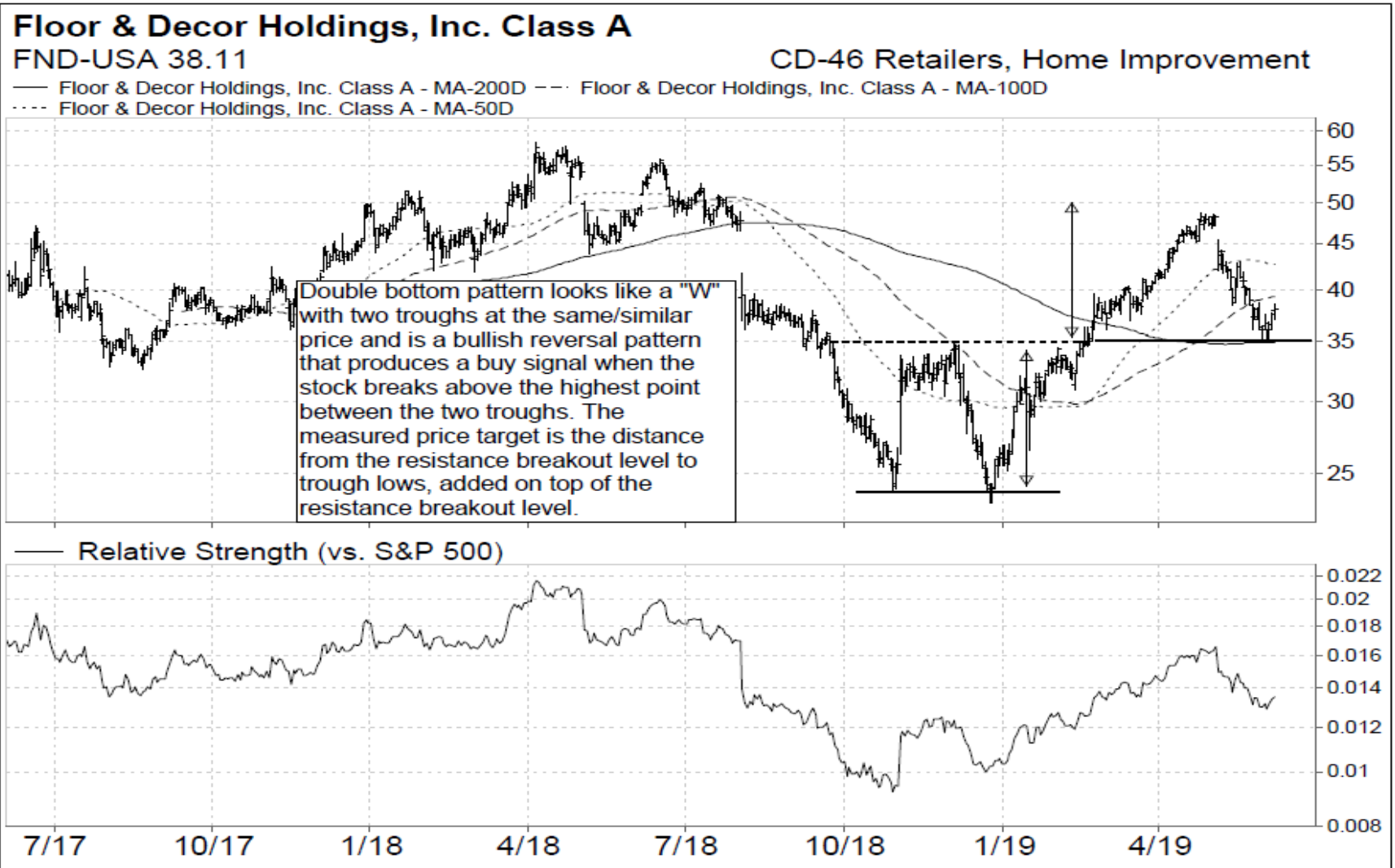
Source: FactSet

# Ascending triangle



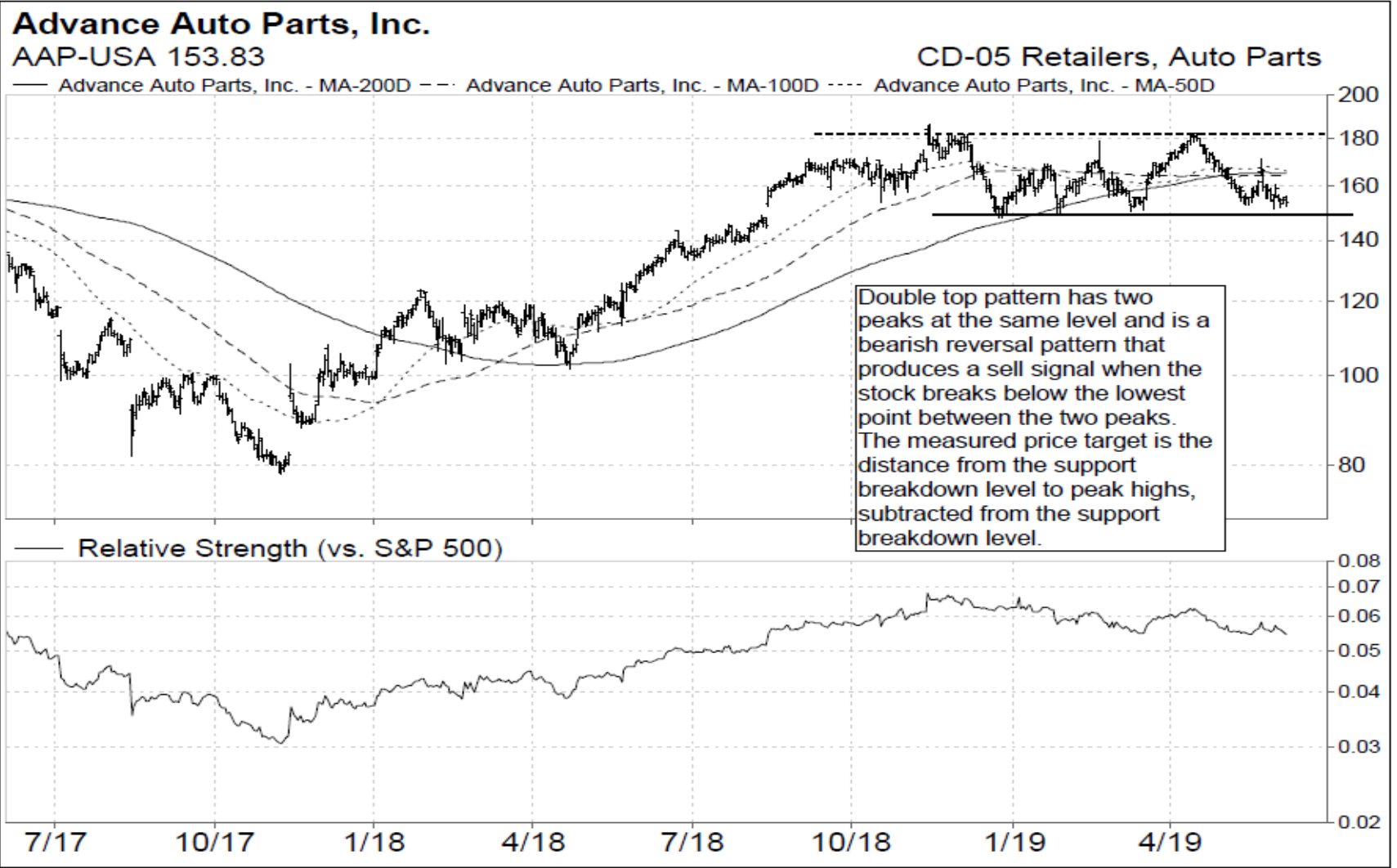
Source: FactSet

# Double bottom, uptrend, uptrend breakdown, pullback to prior resistance turned support



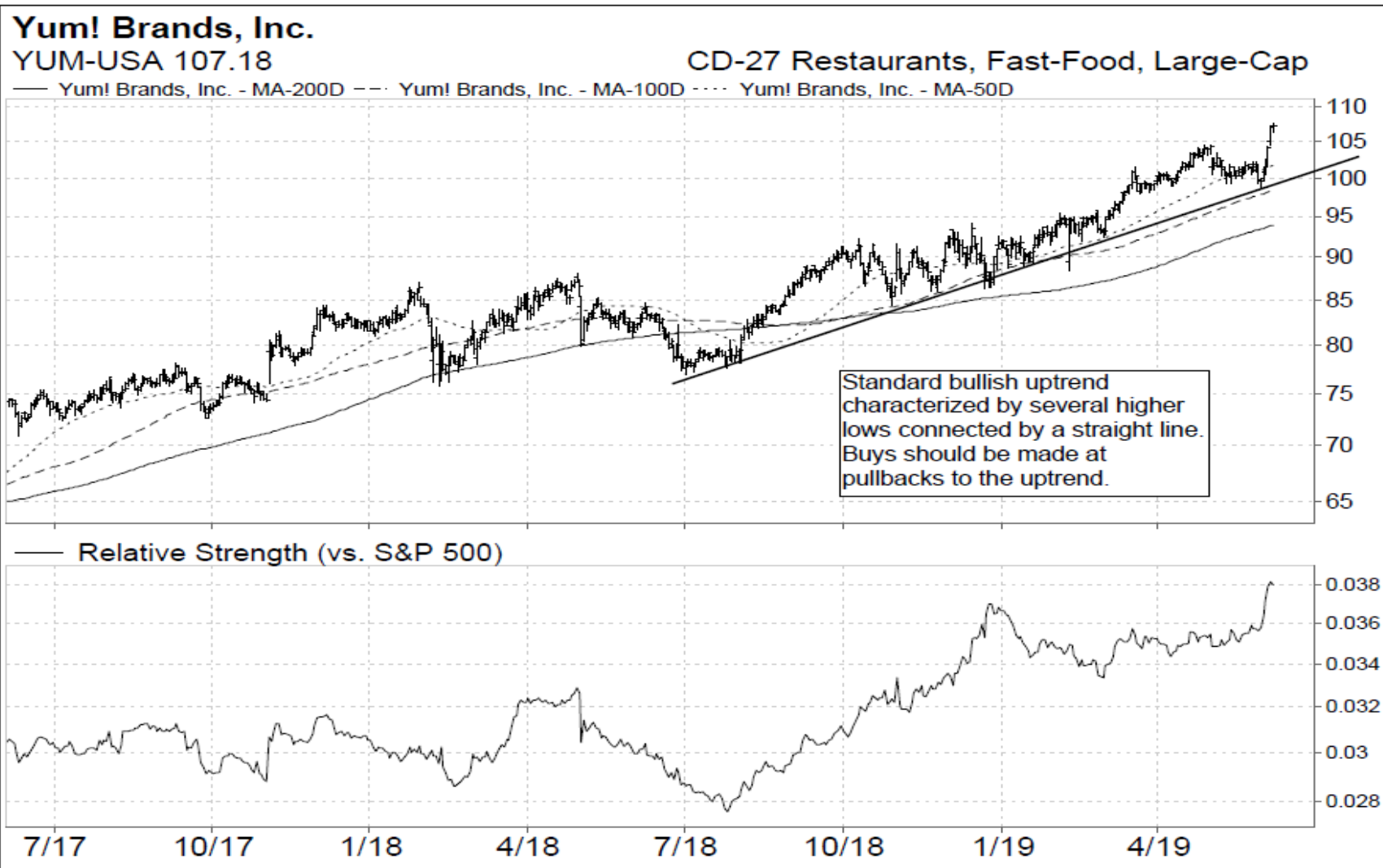
Source: FactSet

# Double top



Source: FactSet

# Pullback to uptrend support



Source: FactSet

## Other Technical Analysis Tools: Relative Strength

---

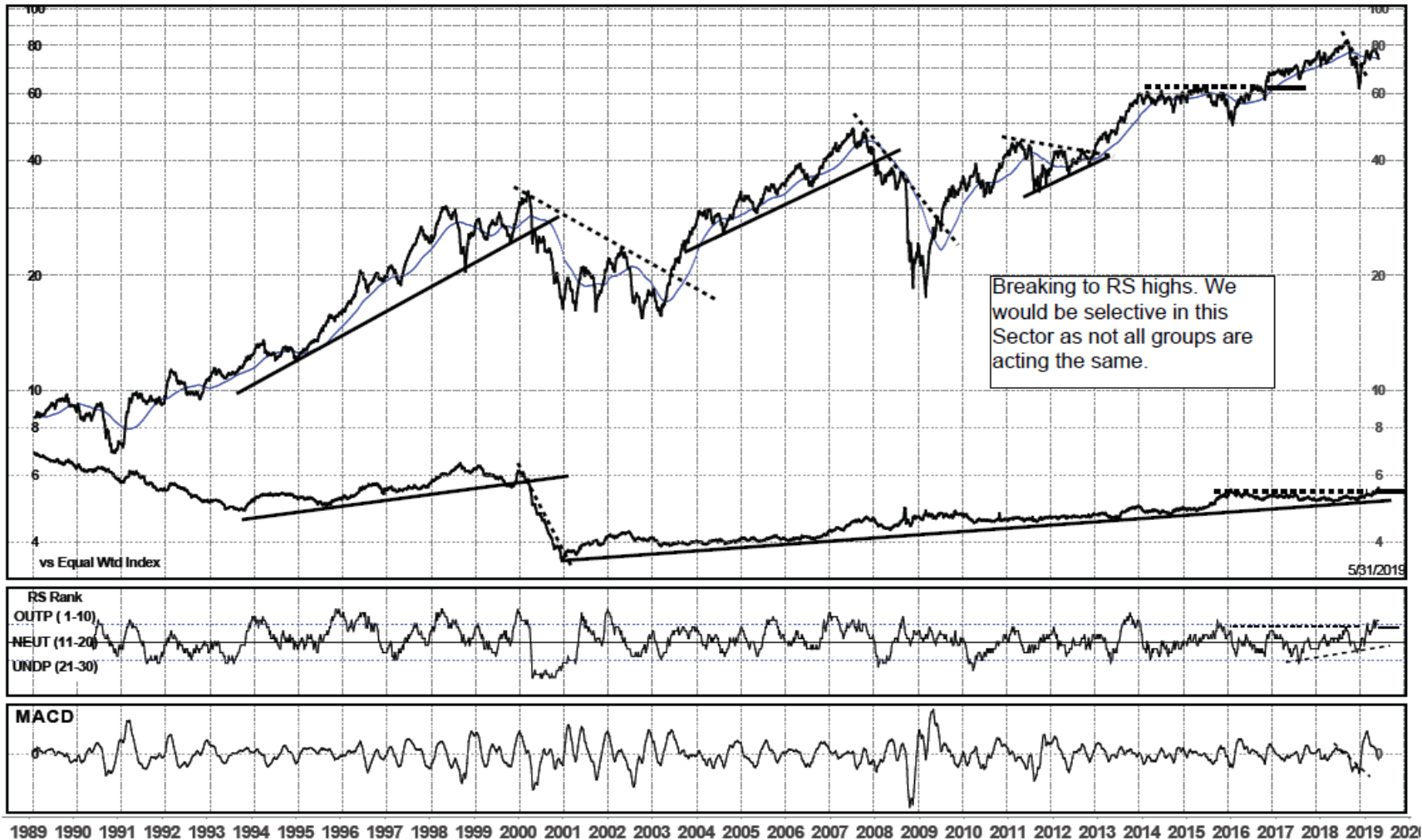
- Relative Strength should not be confused with the Relative Strength Index (RSI).
- RSI is a technical momentum indicator, or more specifically an oscillator, which compares recent gains versus recent losses in an effort to determine oversold and overbought conditions. RS, on the other hand, is only concerned with gains and losses compared to the market and not to the individual security's price history, like the RSI.





# Relative Strength Example – Services Sector

SV-Services



Source: Vermilion Research

# Relative Strength Example – Services Sector

Group or Corp	Ticker	Price	MKT Cap(MM)	Relative Strength Ranking - RSR : Sorted By Sector																	TRIPLE CYCLE	50 DA	200 DA	MACD	% Price Δ				
				05/13	05/12	05/11	05/10	05/09	04/22	04/17	04/11	04/05	03/22	03/12	03/05	02/10	02/02	02/17	02/10	02/03					1 week	1 month	3 month		
SV	<a href="#">Services</a>			10	10	10	11	12	10	11	12	13	13	14	13	13	11	12	14	16	17	D1	1	BR	AF	-2	-2.3%	-5.6%	-4.2%
SV	<a href="#">Services(CAP)</a>			3	4	4	5	5	5	6	6	6	6	7	7	9	9	14	13	11	13	U3	12	AR	AR	-1	-0.6%	-0.8%	5.4%
SV-01	Data Processing & Outsourcing Svcs., Large-Cap			2	3	3	4	4	4	5	4	4	3	4	5	6	7	12	10	8	12	U3	13	AR	AR	-2	-0.8%	-0.7%	5.6%
SV-02	Data Processing & Outsourcing Svcs., Mid-Cap			9	10	11	14	7	5	8	7	7	8	10	8	12	14	18	20	17	21	D1	2	BF	BF	-3	-1.7%	-7.2%	-3.1%
SV-03	Data Processing & Outsourcing Svcs., Small-Cap			9	9	12	15	10	10	16	18	14	15	17	18	18	20	14	18	18	26	D1	1	BR	AF	-1	-1.7%	-5.3%	-1.2%
SV-04	IT Consulting, Gov't/Global, Large-Cap			4	5	8	13	14	7	9	6	6	6	8	10	12	14	17	15	12	13	D1	2	BR	AR	-3	-0.9%	0.6%	3.8%
SV-05	IT Consulting, Gov't/Global, Small-Cap			6	7	6	4	4	6	10	10	10	9	8	7	8	7	4	8	7	7	U3	13	BR	AF	-2	-1.4%	-6.3%	-1.9%
SV-06	Research & Consulting Services			10	11	14	19	16	11	12	13	15	11	13	13	11	11	11	11	10	12	D1	2	BR	AF	-4	-1.5%	-3.8%	-2.7%
SV-07	Human Resources & Employment Svcs., Large-Cap			10	7	7	7	7	4	2	4	3	3	5	3	4	3	4	5	7	13	D1	2	BF	AF	-4	-4.5%	-7.9%	-6.9%
SV-08	Human Resources & Employment Svcs., Small-Cap			13	9	6	5	8	6	7	5	6	8	9	5	4	3	3	3	13	16	D1	1	BF	BF	-3	-4.8%	-8.9%	-11.7%
SV-09	Advertising Agencies, Large-Cap			17	20	20	20	24	19	16	25	26	27	19	17	17	17	18	16	12	8	D2	1	BF	BF	-3	-2.0%	-6.2%	-7.0%
SV-10	Advertising Agencies, Small-Cap			5	3	2	3	25	23	19	17	12	15	22	25	23	15	14	24	22	21	U3	9	BR	AF	+21	-4.8%	5.3%	-0.1%
SV-11	Commercial Printing			28	28	29	29	28	25	26	27	24	26	26	27	26	23	12	13	17	24	D3	2	BF	BF	-5	-5.0%	-14.2%	-22.4%
SV-12	Office Services & Supplies			23	22	23	25	25	23	21	24	26	24	25	24	22	22	15	18	18	19	D2	2	BF	BF	-4	-4.5%	-9.2%	-12.5%
SV-13	Construction & Engineering, Large-Cap			11	15	18	15	20	10	10	13	15	21	21	22	24	26	20	24	26	26	D1	2	BF	BF	-2	-1.0%	-4.4%	-2.5%
SV-14	Construction & Engineering, Small-Cap			13	16	11	9	11	20	14	22	22	23	23	20	20	18	23	25	26	25	D1	1	BR	BF	-1	-1.5%	-8.5%	-7.2%
SV-15	Waste Services, Large-Cap			4	8	7	10	12	7	6	7	5	4	7	9	8	9	18	14	11	12	D1	2	BR	AR	-3	0.4%	-1.1%	2.6%
SV-16	Waste Services, Small-Cap			5	7	7	3	5	5	7	10	11	12	10	8	9	13	20	21	21	18	D1	1	BR	AF	-2	-1.2%	-6.0%	0.6%
SV-17	Uniforms/Facilities Mgt.			9	11	12	16	18	17	14	19	22	20	24	25	23	23	22	23	23	23	U3	8	BR	BF	+20	-0.6%	-2.7%	-1.3%
SV-18	Correctional Facilities			4	5	12	20	24	29	29	29	29	30	29	30	27	21	14	20	7	15	U2	3	AR	AF	+5	-0.8%	4.1%	-0.9%
SV-19	Security Services			3	3	3	2	4	3	2	2	4	2	6	4	6	5	5	4	5	11	U3	14	BR	AR	-2	-1.2%	-2.9%	3.9%
SV-20	Tax Preparation Services			16	18	23	25	29	30	29	29	29	29	28	29	26	27	25	25	20	17	U1	3	AR	BF	+4	-2.3%	3.9%	-2.2%
SV-21	Auctions			2	2	4	4	5	5	4	6	10	10	12	13	9	9	13	12	14	17	U3	12	AR	AF	+21	-2.8%	-0.8%	4.6%
SV-22	Death Services			24	23	25	22	26	24	18	21	24	22	24	24	18	19	18	20	22	28	D2	2	BF	BF	-3	-4.4%	-10.7%	-17.2%
SV-23	Educations Svcs., China			26	28	27	27	22	6	7	13	23	18	21	21	12	8	13	19	11	10	D2	2	BF	BF	-4	0.2%	-14.5%	-17.6%
SV-24	Transactions Systems			1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	10	27	16	U3	12	BR	AF	-1	-6.4%	-5.2%	13.8%
SV-25	Marketing/Merchandising/Digital			10	11	10	16	11	13	15	20	15	3	2	2	1	2	3	3	4	3	D1	8	BF	AR	-9	-1.5%	-4.1%	-5.9%

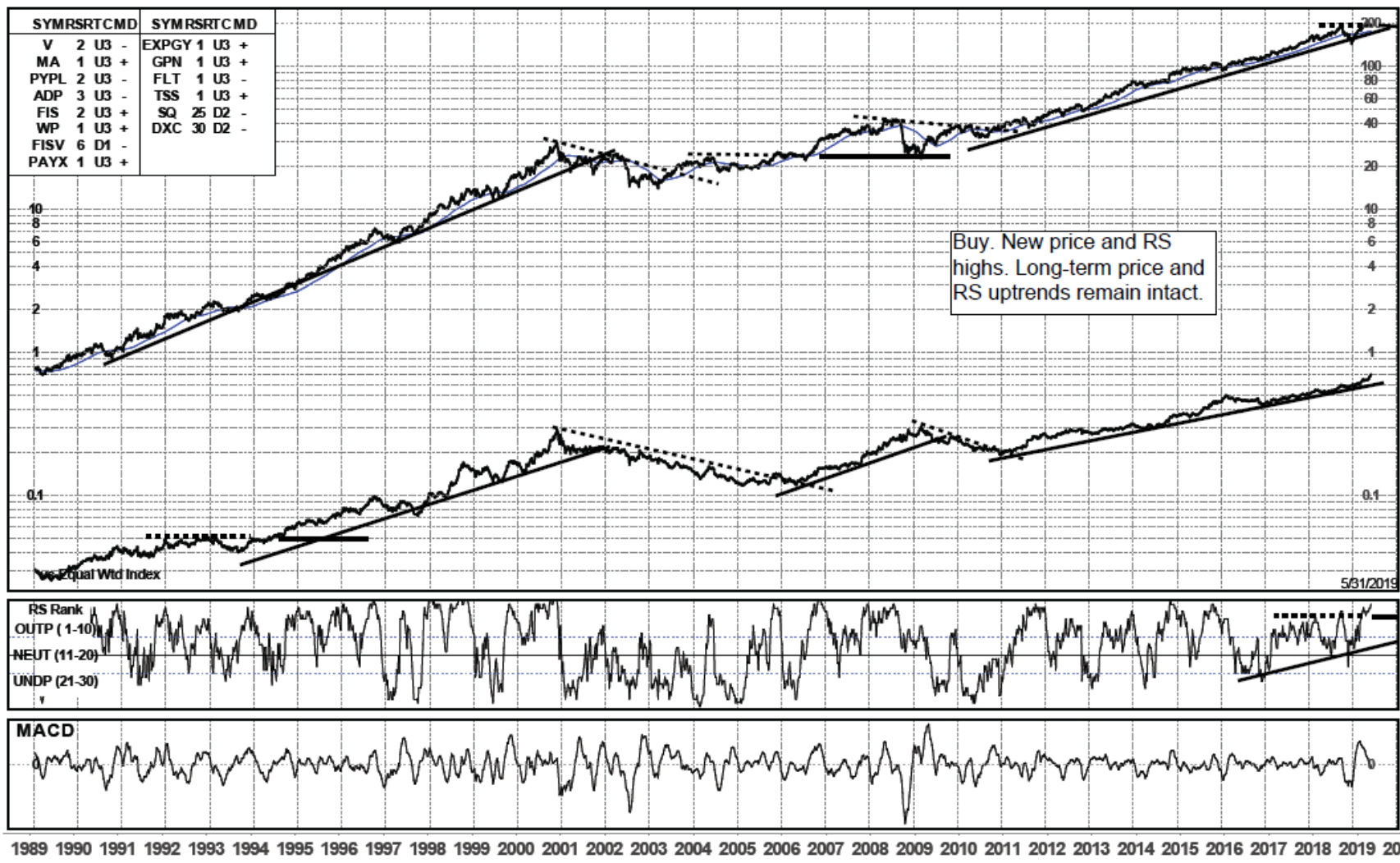
Source: Vermilion Research





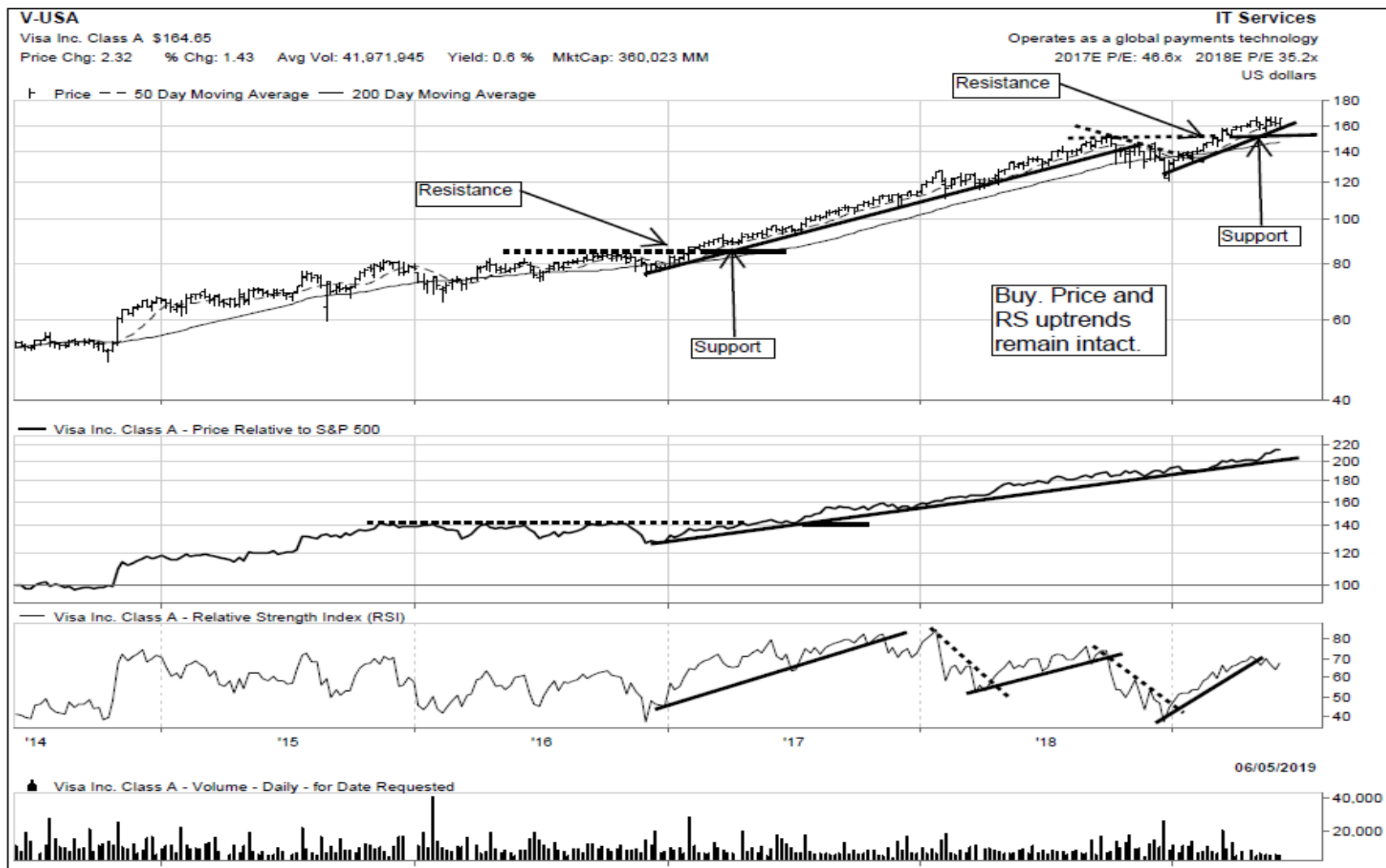
# Relative Strength Example – Services Groups

SV-01 Data Processing & Outsourcing Svcs., Large-Cap



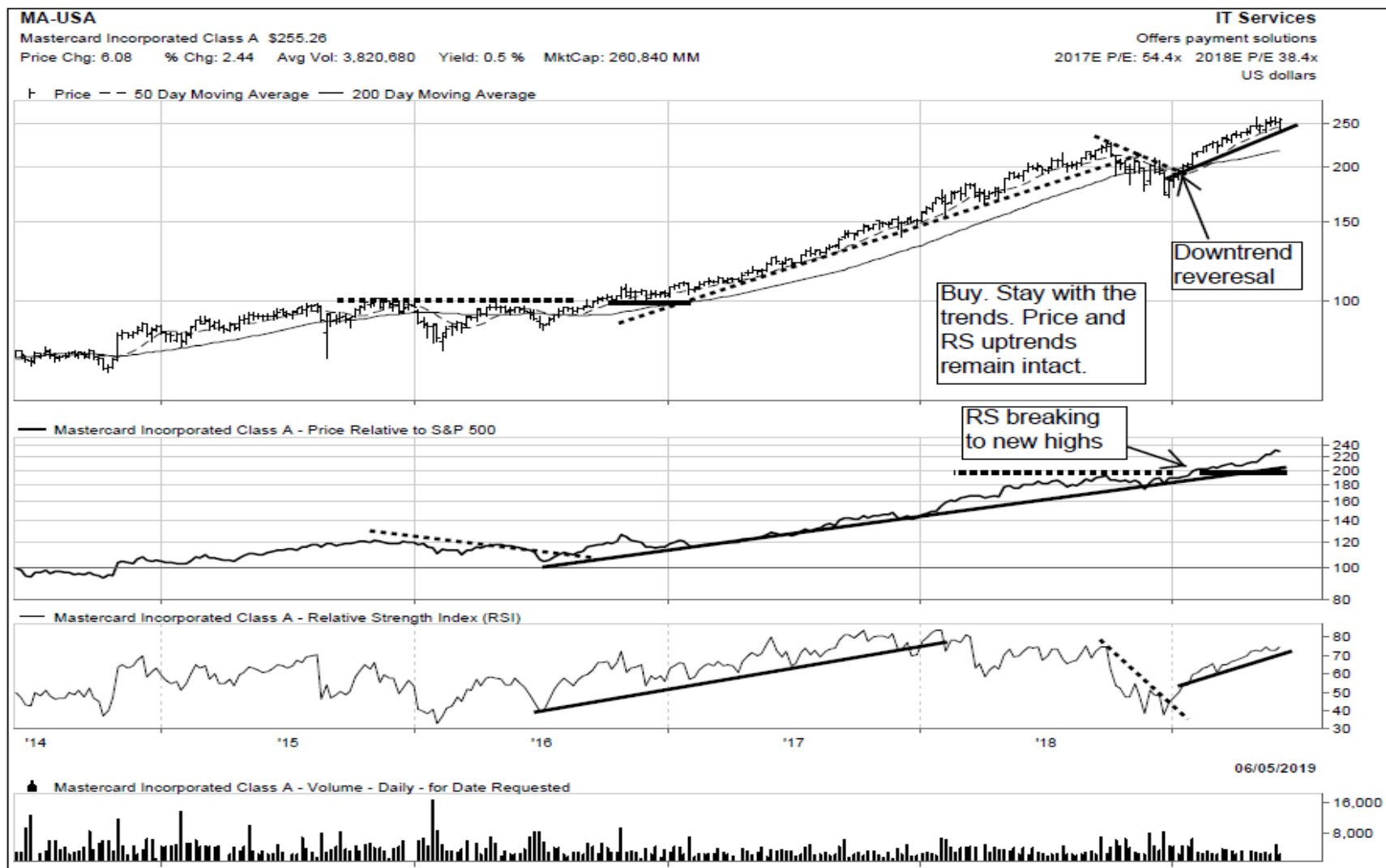
Source: Vermilion Research

# Relative Strength Example – Services Stocks



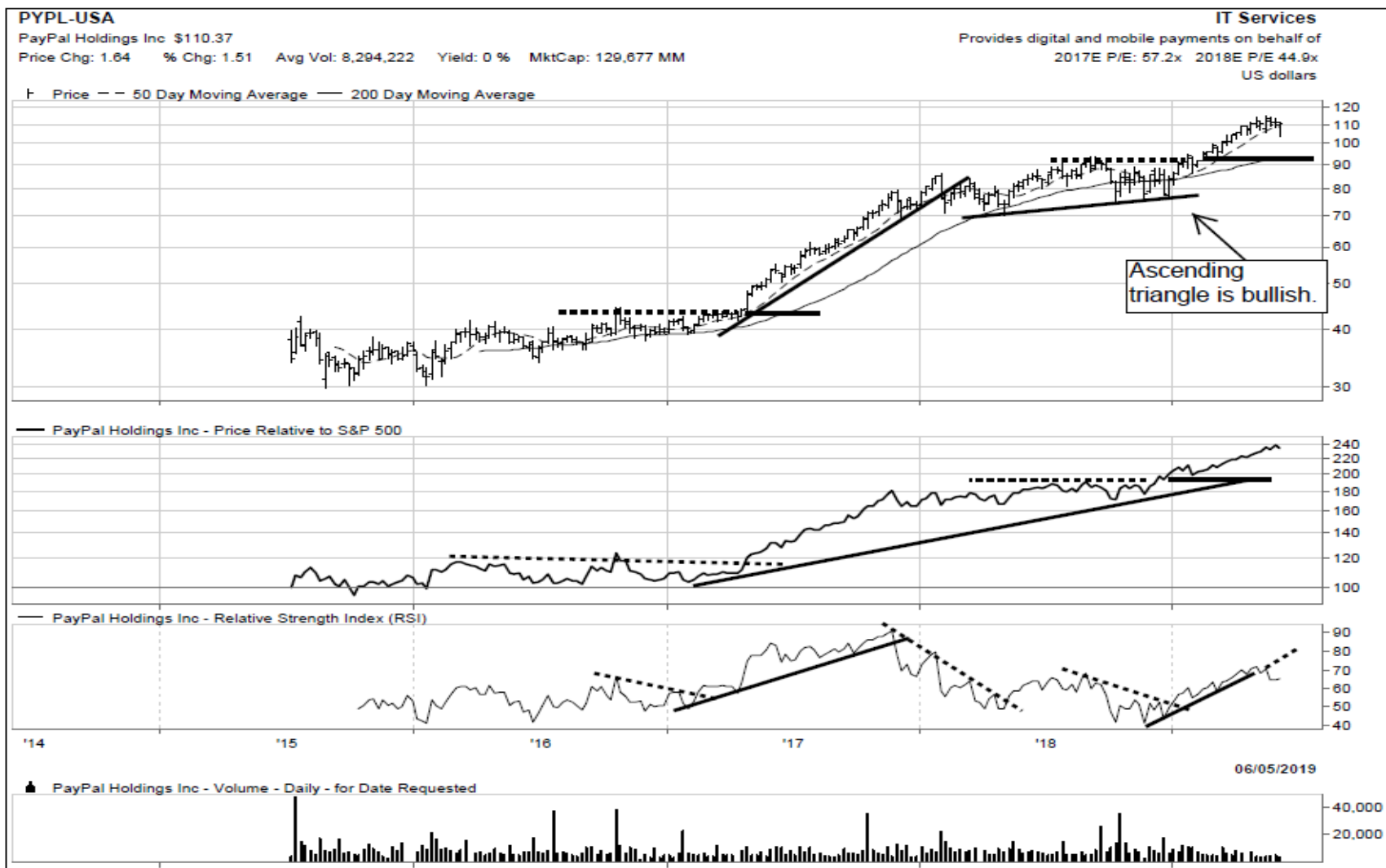
Source: FactSet

# Relative Strength Example – Services Stocks



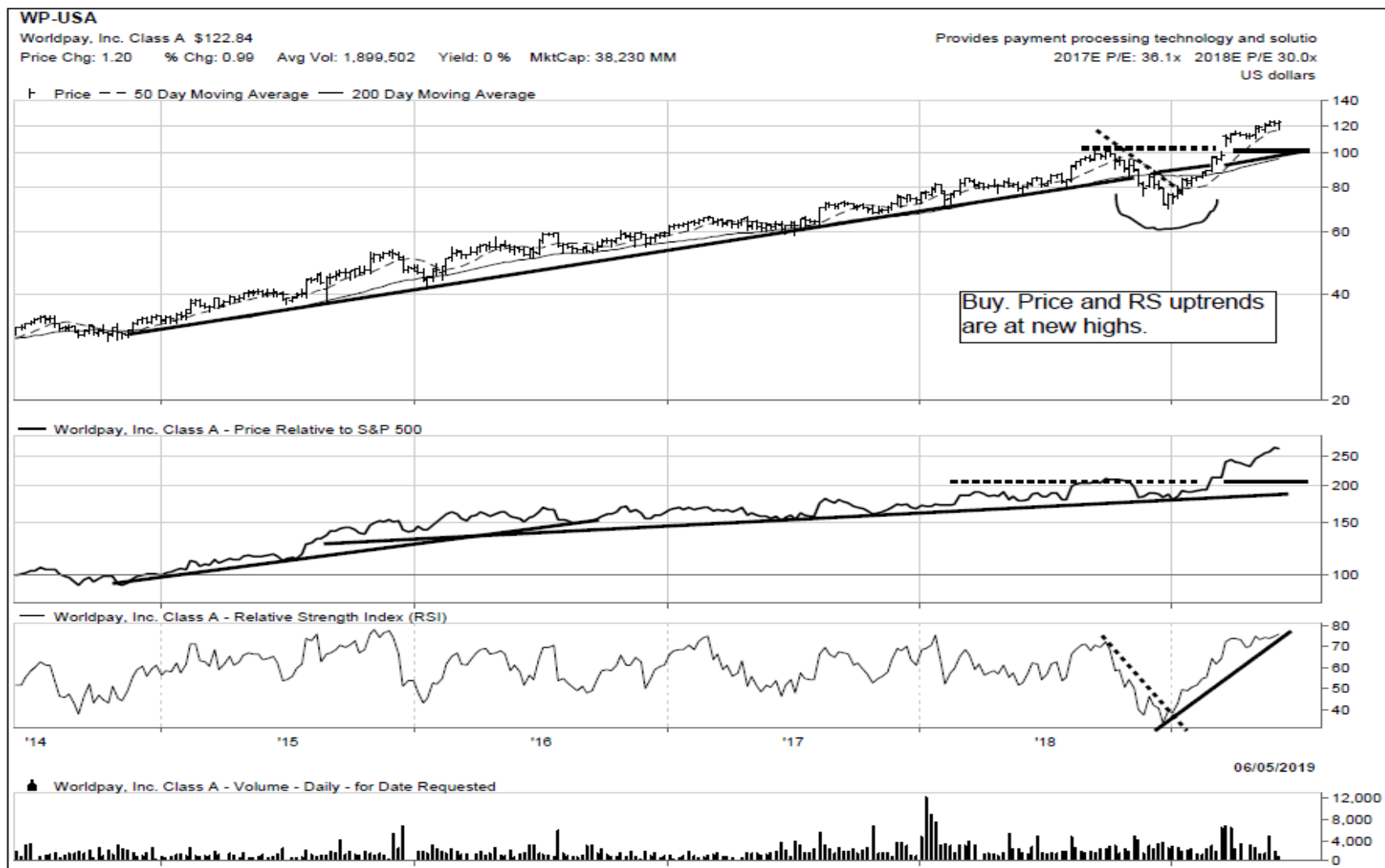
Source: FactSet

# Relative Strength Example – Services Stocks



Source: FactSet

# Relative Strength Example – Services Stocks

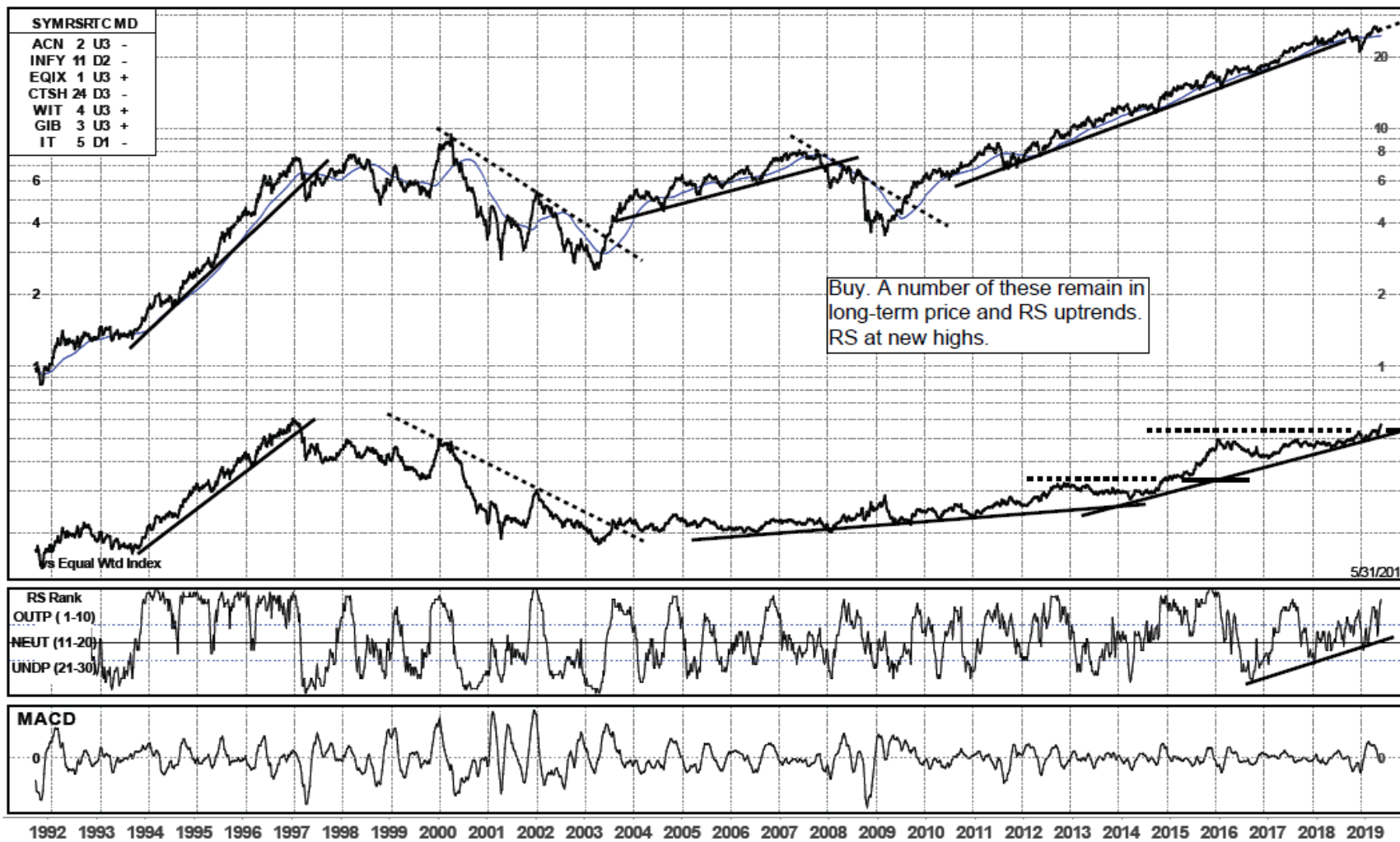


Source: FactSet



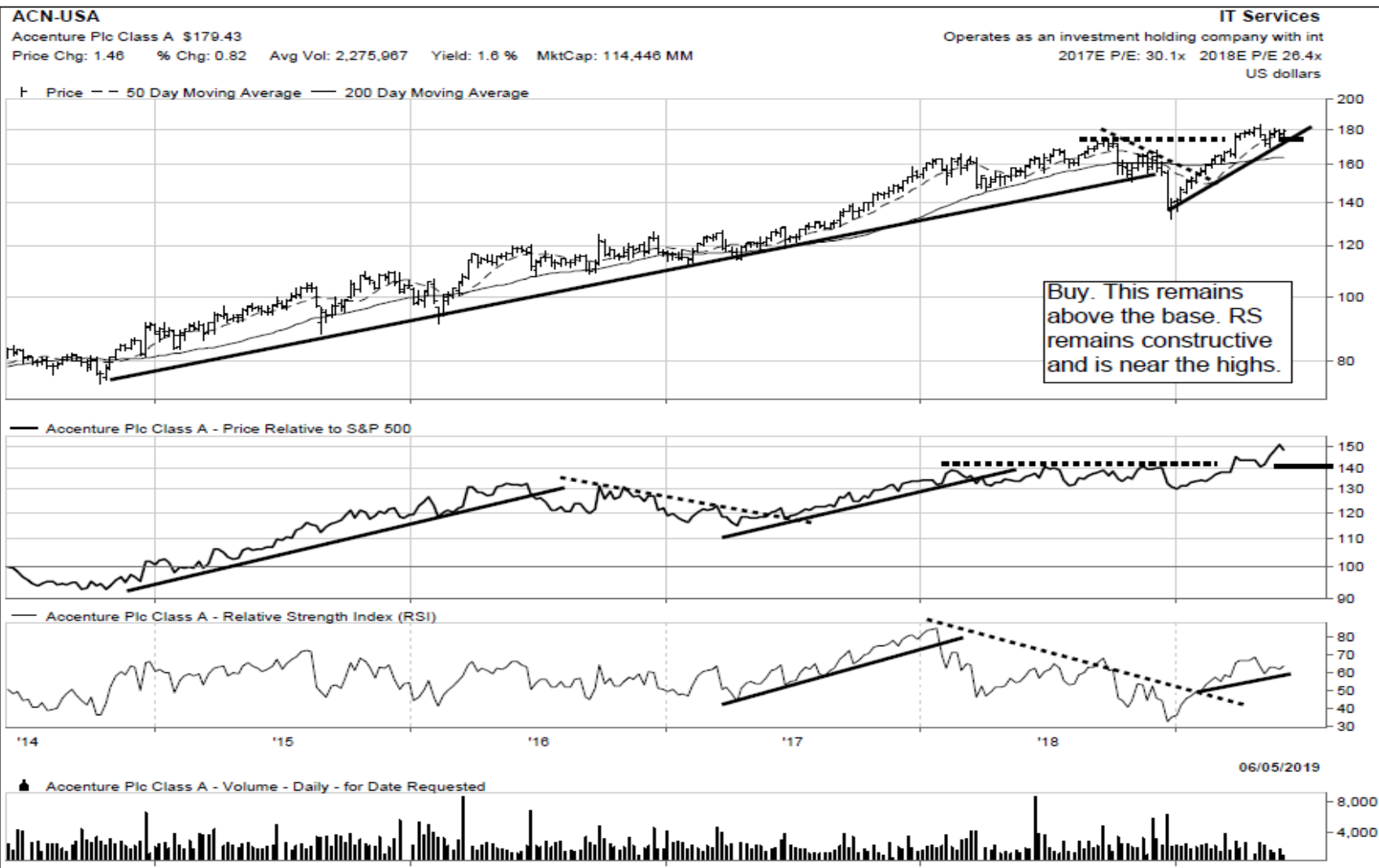
# Relative Strength Example – Services Groups

SV-04 IT Consulting, Gov't/Global, Large-Cap



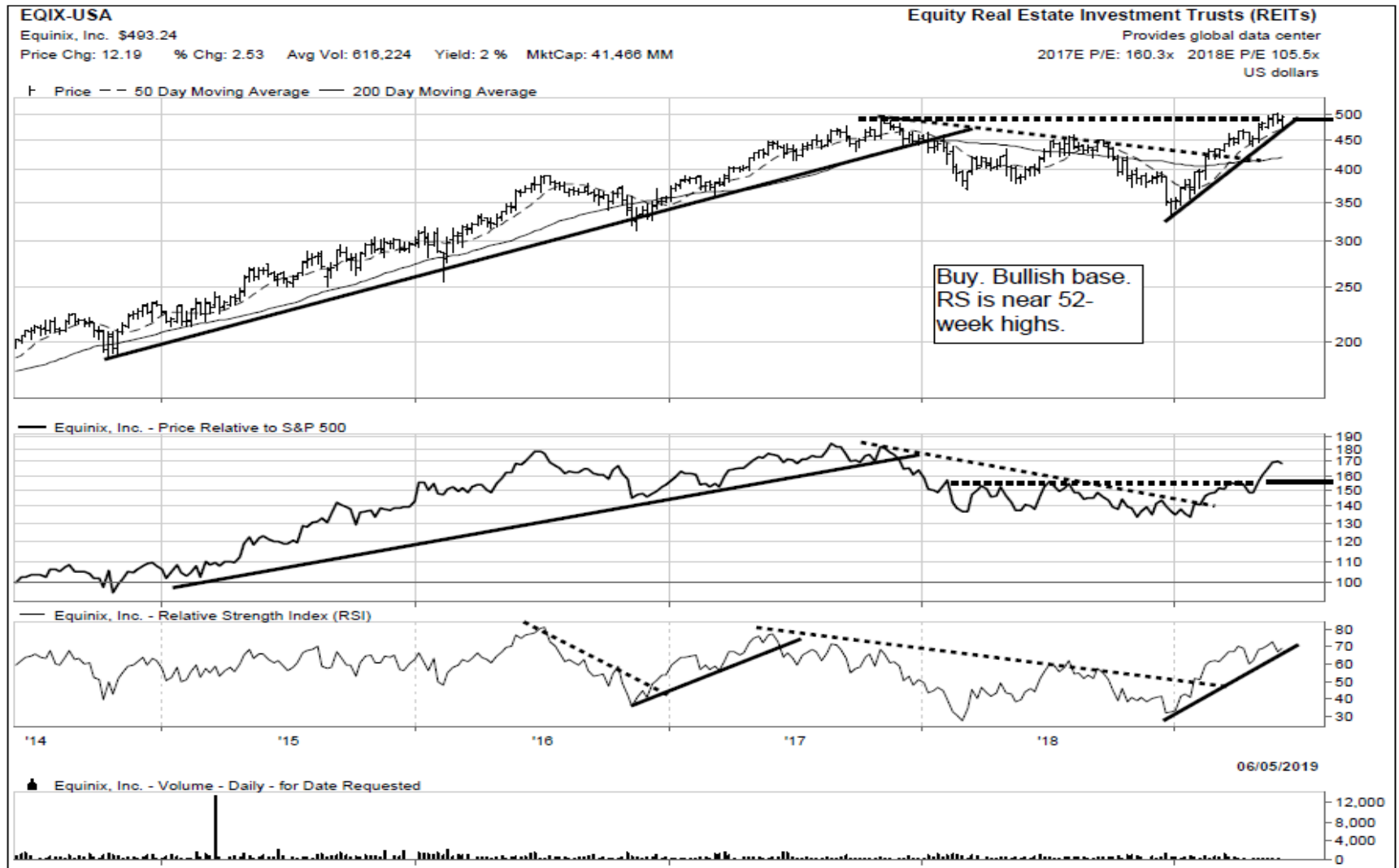
Source: Vermilion Research

# Relative Strength Example – Services Stocks



Source: FactSet

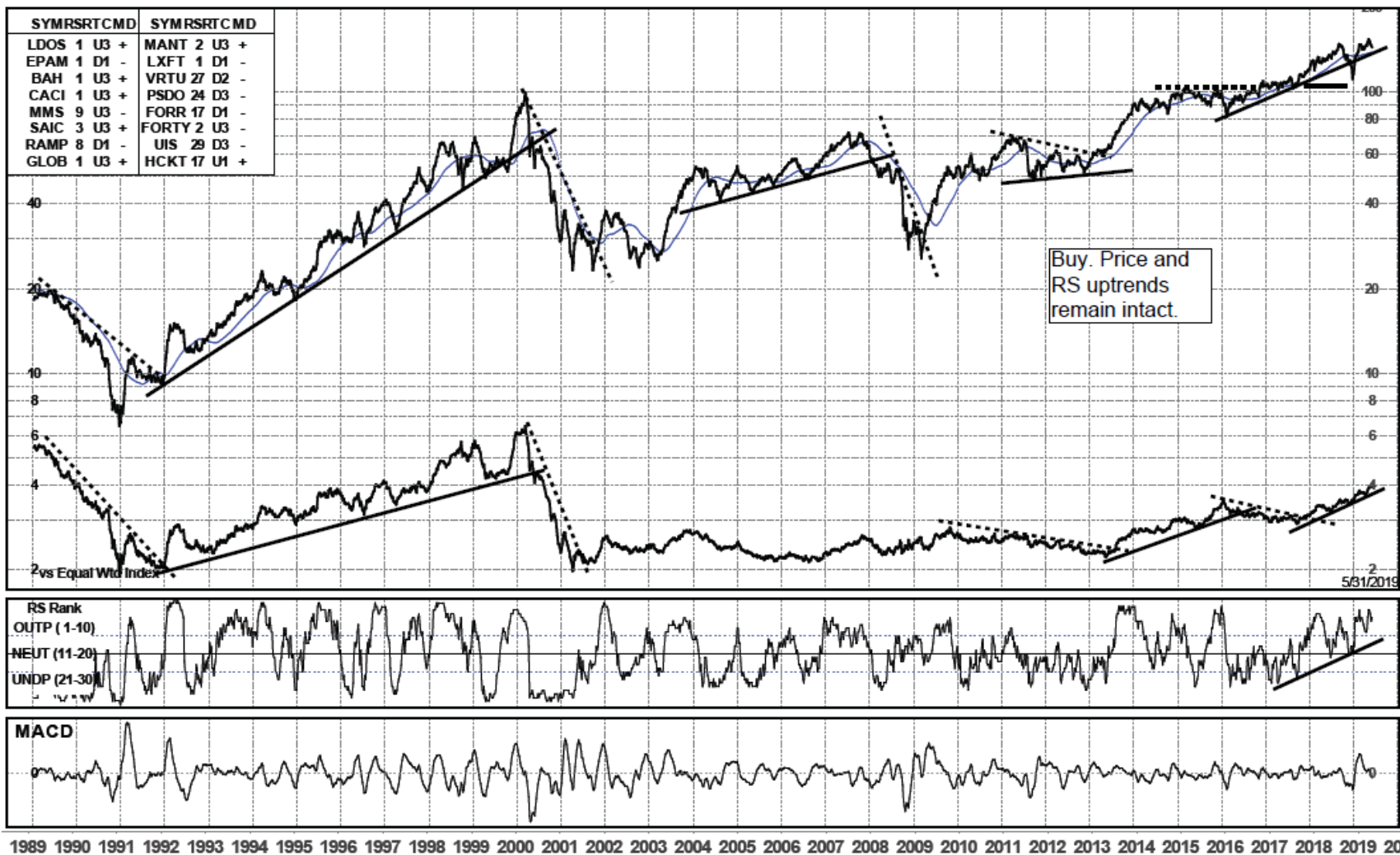
# Relative Strength Example – Services Stocks



Source: FactSet

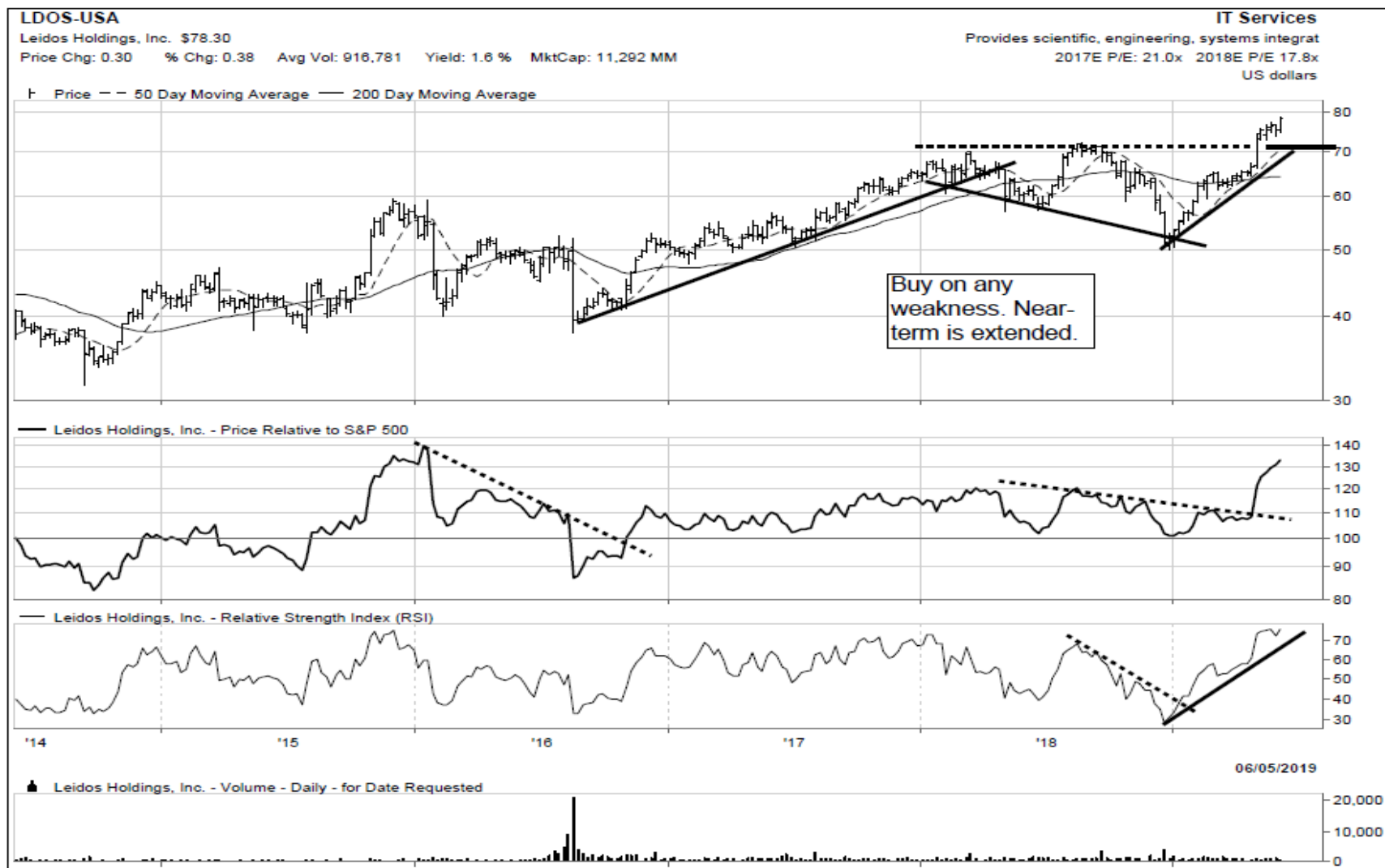
# Relative Strength Example – Services Groups

SV-05 IT Consulting, Gov't/Global, Small-Cap



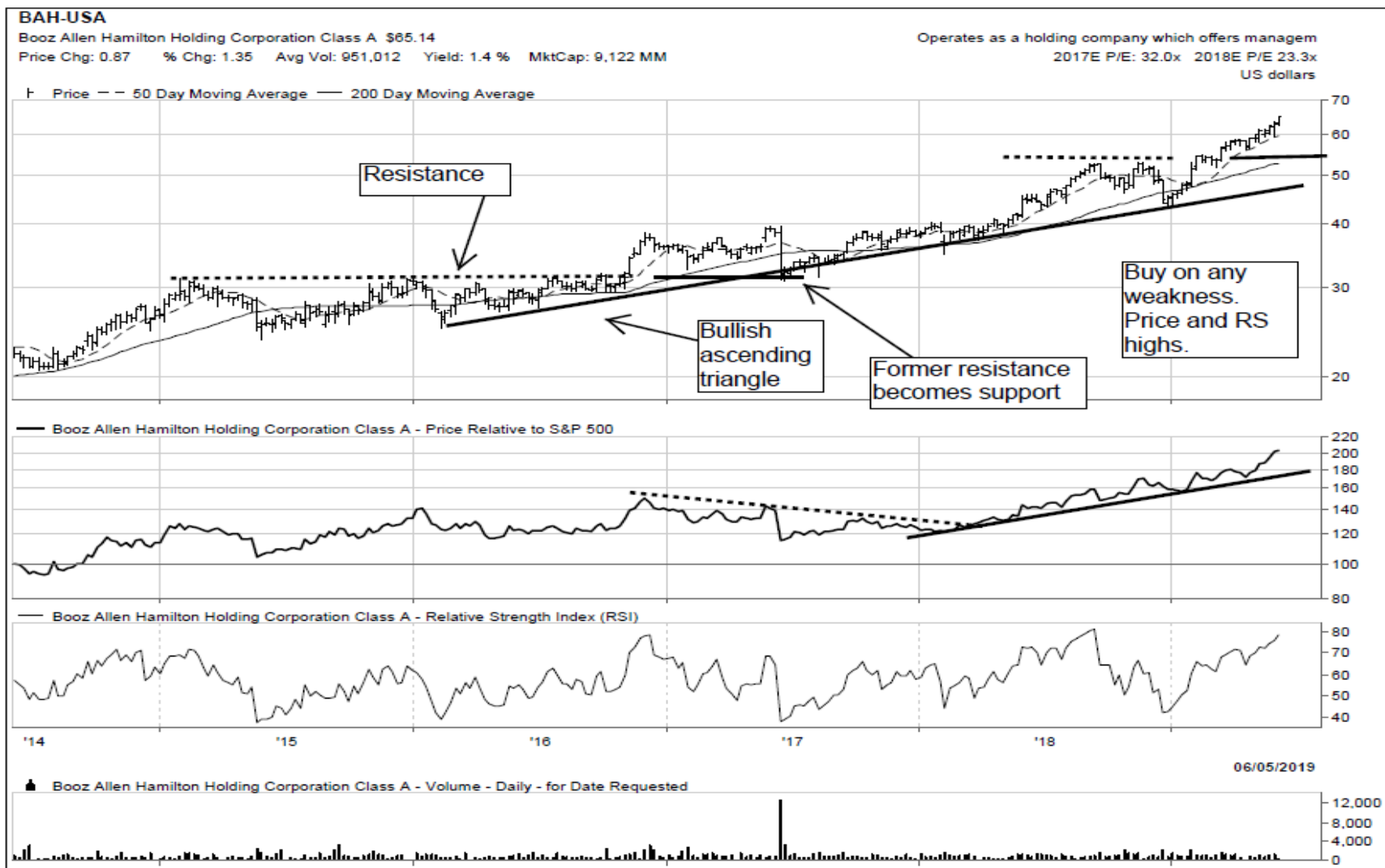
Source: Vermilion Research

# Relative Strength Example – Services Stocks



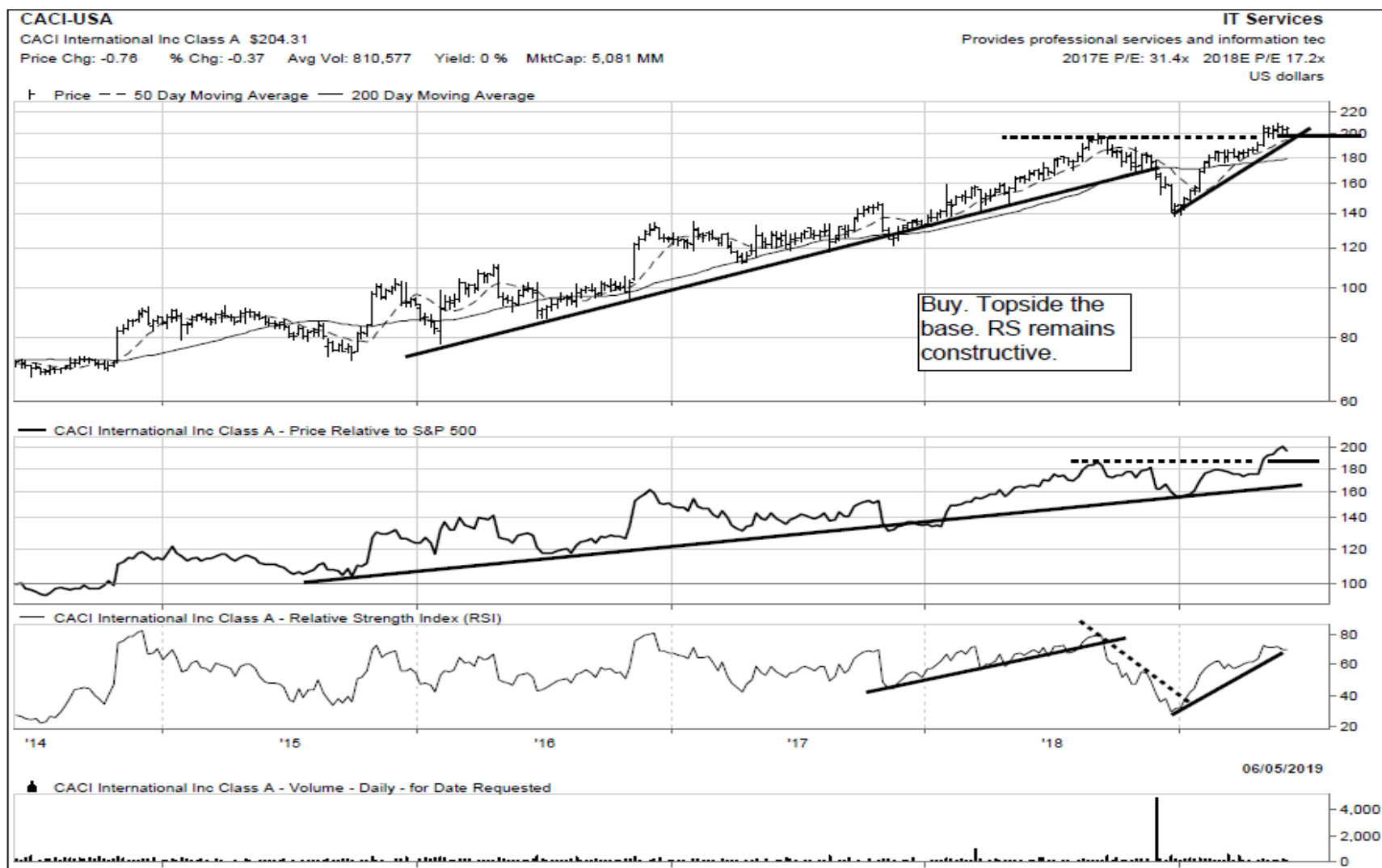
Source: FactSet

# Relative Strength Example – Services Stocks



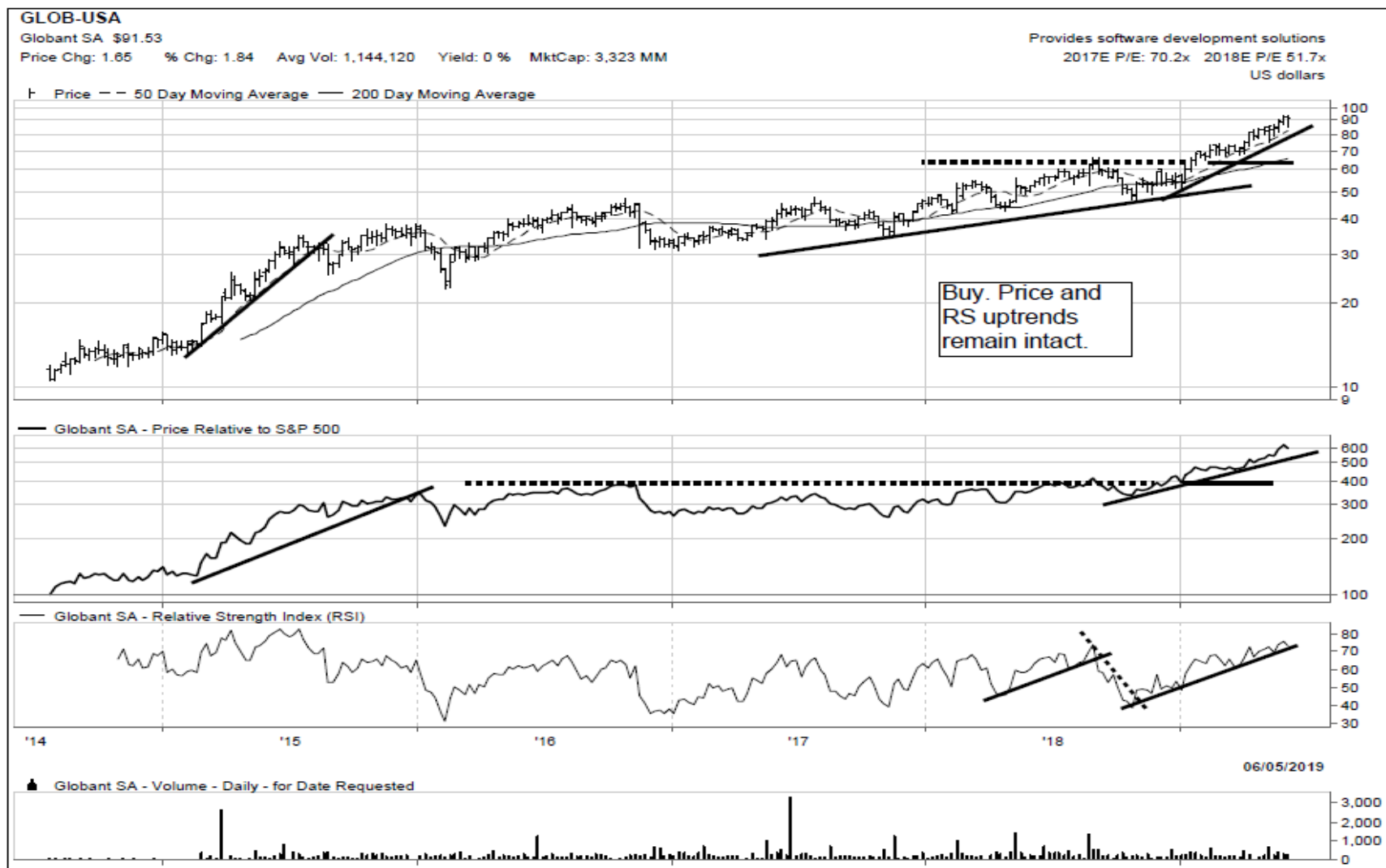
Source: FactSet

# Relative Strength Example – Services Stocks



Source: FactSet

# Relative Strength Example – Services Stocks

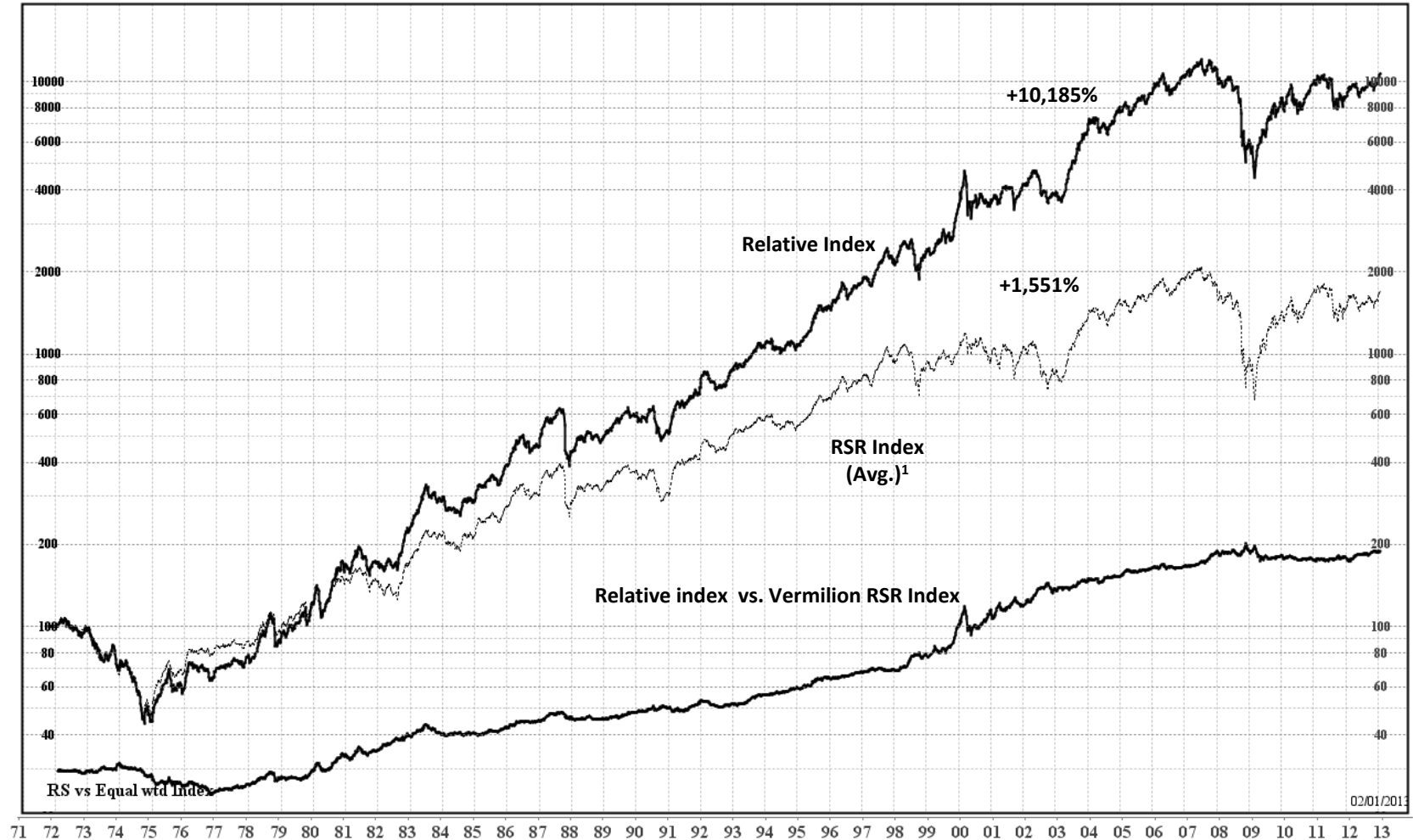


Source: FactSet



# Relative Strength Strategy: Historical Performance

Relative Price 52wks Highs Model Portfolio



# Risks to Relative Strength

---

## No trend lasts forever

- Perhaps the biggest risk to relying on RS measures is the outright risk of an unexpected trend reversal. There is always the potential for an exogenous factor or surprise event of some sort to completely change the direction of price trends already in place.

## RS can be Misleading

- If a “regular” market pullback turns into a full-blown correction, or even a bear market, then even those securities with the highest RS measures are vulnerable to swift profit-taking pressures. Just like a rising tide is said to lift all boats, a bear market can (and will sooner or later) bring down even “best of breed” names.

## Positives to Using Relative Strength

---

- Relative Strength provides an important metric when it comes to Sector, Group and Stock selection as it dictates which areas of the market are outperforming and which ones are underperforming.
- Relative strength when used in conjunction with pattern recognition, and other technical tools can provide for effective risk/reward in managing portfolios and can provide insight to intra-market analysis.

# The Bottom Line

---

- Technical analysis, helps investors determine support and resistance levels. These levels define the periods of congestion in a stock chart where the prices of stocks fluctuate within a limited range for a long period of time.
- When you are able to identify support and resistance levels, you can make better decisions whether or not to invest in a particular stock.
- Technical analysis also helps investors' time entry points. With the help of technical analysis, you know exactly when to time your action, thus creating better risk/reward scenarios. You are also able to understand demand and supply levels, and breakouts to make better decisions. Buying close to support levels or a breakout above resistance helps you earn greater returns on your investment.

Questions?

---

