

THE  
MACRO  
SHOW



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1

VIX



2

GERMANY



3

RUSSELL





# 1 VIX

Since *Quad 4* hit the U.S. Equity market in May, selling “stocks” every time the VIX tested 15 worked – is it going to be different this time? We are not betting on that, certainly not with implied volatility on SPY getting pancaked to a -10% DISCOUNT (vs. 30-day realized) this week; Short Tech (XLK), Materials (XLB), and Junk Bonds (JNK) here.

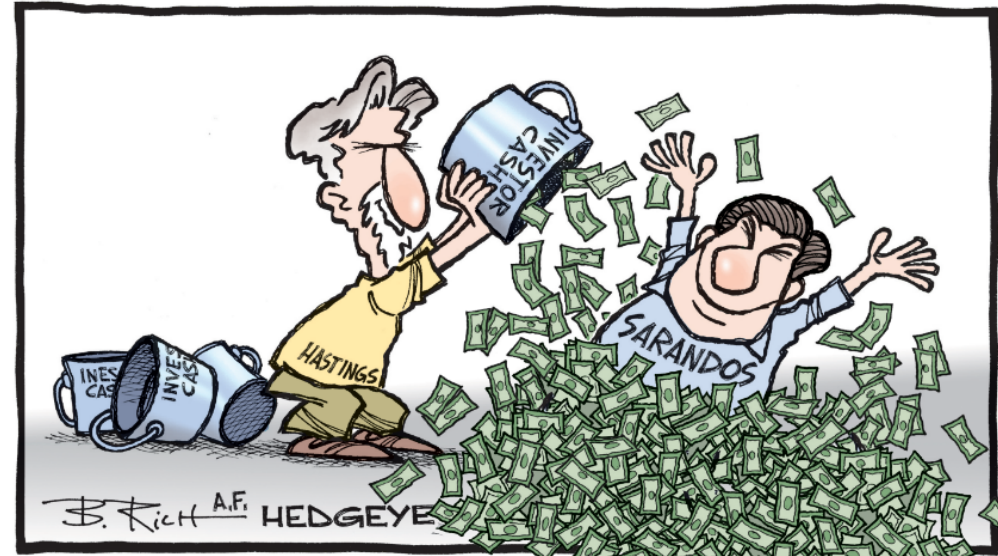
## 2 GERMANY

Horrendous economic data this morning and this is the PRE "Tariff" excuse-making in May. APRIL Industrial Production -1.9% y/y and APR Exports -3.7% y/y against EASING comps! But, no worries, the ECB is ringing that money-printing #cowbell again as the Germany 10YR yield crashes to all-time lows -0.24%.



### 3 RUSSELL

When we say “stocks”, we mean what Old Wall media thinks “risk on” is – in real world, cross-asset class risk management, a broad definition of equities is the Russell 2000 which was down -0.2% on the day yesterday, is down -13.6% since **The U.S. Cycle #peaked in Q3 of 2018** and remains a core SHORT @Hedgeye (IWM).



# COMMUNICATIONS RESEARCH PROCESS

## Research Process

### 1. Idea Generation

- Thematic, macro and policy driven (...will take rifle shots too)
- Focus on second derivative inflections in trends
- Relative and absolute performance / Battleground stocks
- Counter consensus screening models (short interest, ANR, etc.)
- Primary market research (professional interviews and surveys)

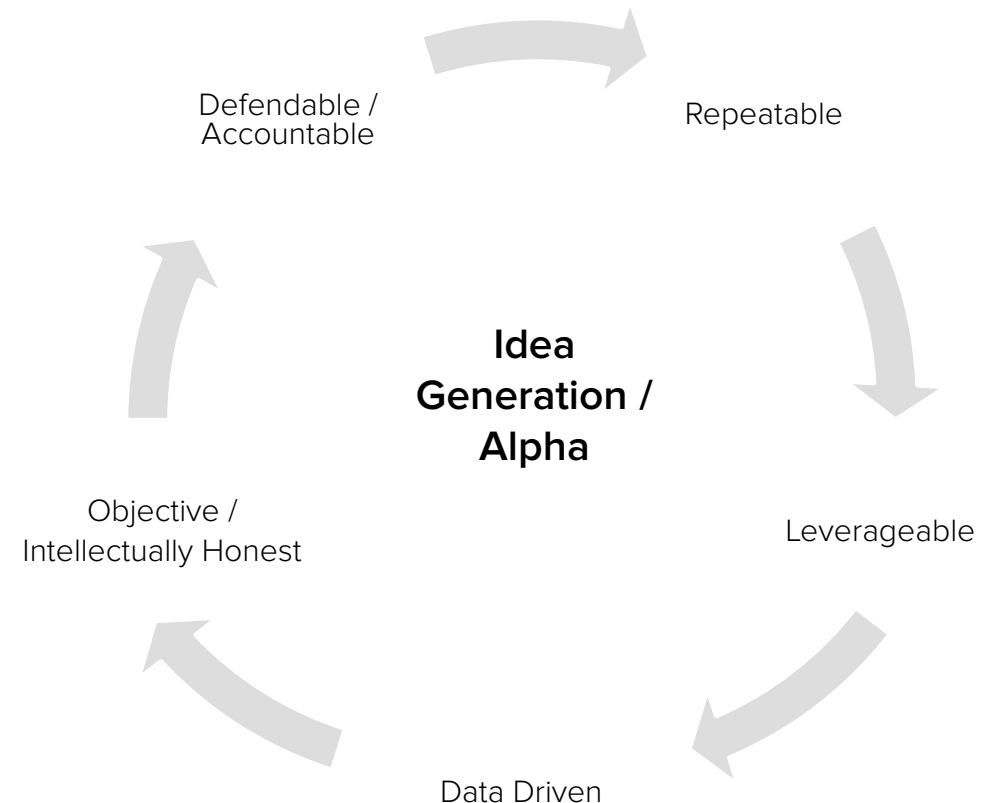
### 2. Fundamentals

- Build out three-statement financial models
- Model top-line growth, market share and end-market
- Operating leverage, ROIC/Cost of Capital and free cash flow
- Focus on balance sheet, capital structure and management
- Consider all relevant valuation metrics (DCF, multiple, factor, etc.)
- Assess catalyst calendar, understand event path and risk/reward

### 3. Data Driven

- Narrative supported by data
- Identify correlations, update and chart high frequency key drivers
- Leverage alternative, proprietary and third-party data sources
- Incorporate machine learning and data science to gain insights

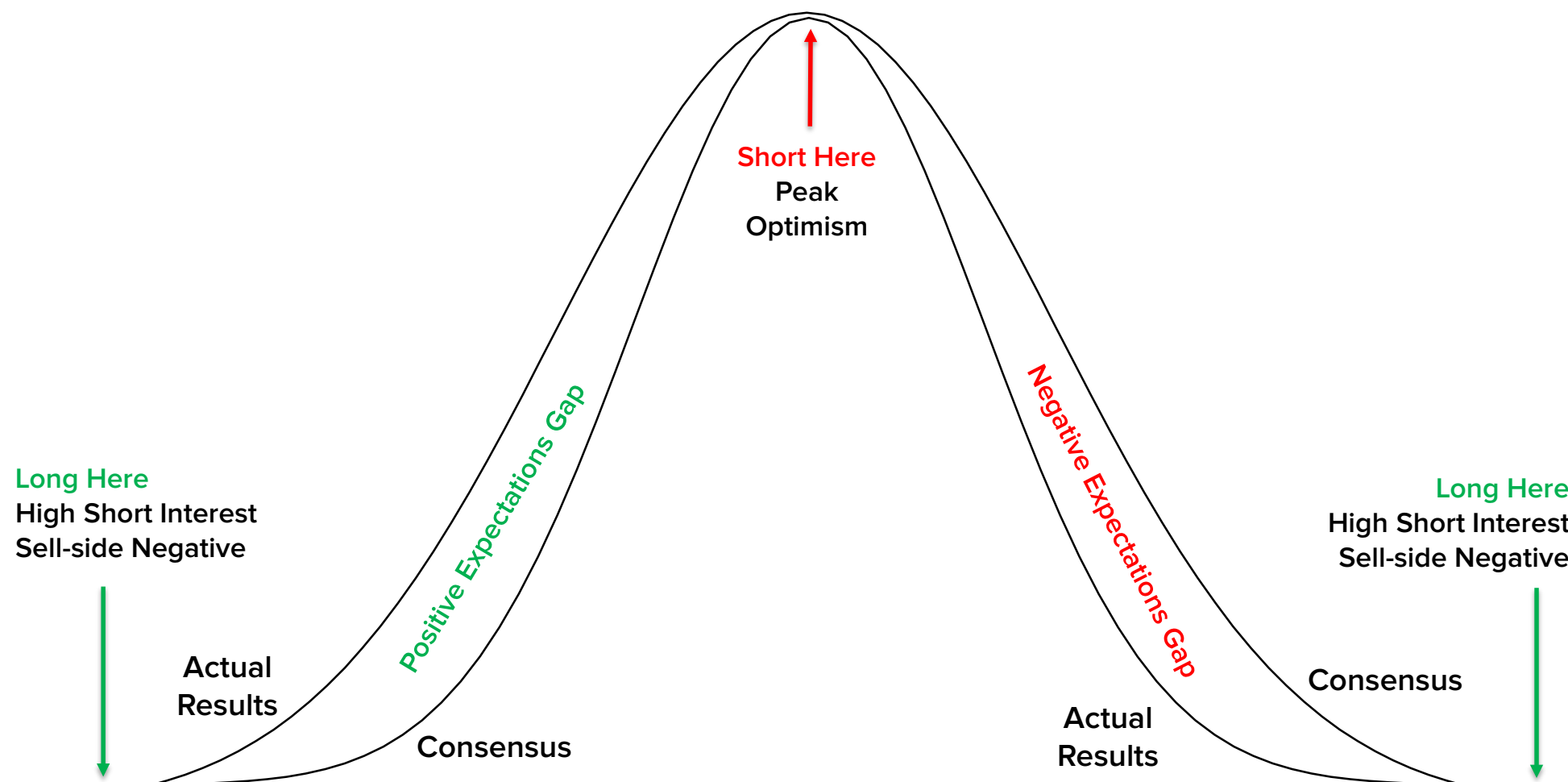
## Research Process Goals





# FUNDAMENTAL IDEA GENERATION

## IDENTIFYING GAPS IN EXPECTATIONS / INFLECTIONS IN GROWTH



### Hunting for Longs: (1-3 Year Duration)

- Organic growth / adoption
- Activist / turnaround
- Fallen angel growth stocks
- High short-interest / misunderstood long thesis
- Compounders

### Hunting for Shorts: (< 1 Year Duration)

- Frauds and fads
- Balance sheet shorts
- Angels before the fall (hardest to call timing on, but often most rewarding if right)
- Buggy whips
- Melting ice cubes

### Process Shortcomings:

- Early is a less bad form of wrong
- Calling quarters is hard (not impossible)
- Correlations break down

# COMMUNICATIONS POSITION MONITOR BACKTEST

Best Ideas - Longs		Price Performance Backtest*				Best Ideas - Shorts		Price Performance Backtest*			
LONG						SHORT					
Active Longs		Quad 1	Quad 2	Quad 3	Quad 4	Active Shorts		Quad 1	Quad 2	Quad 3	Quad 4
PINS	Pinterest, Inc. Class A	Not Enough Trading History				NFLX	Netflix, Inc.	21.7%	18.8%	12.9%	-3.2%

\*Average quarterly price return 1Q95 – 2Q19

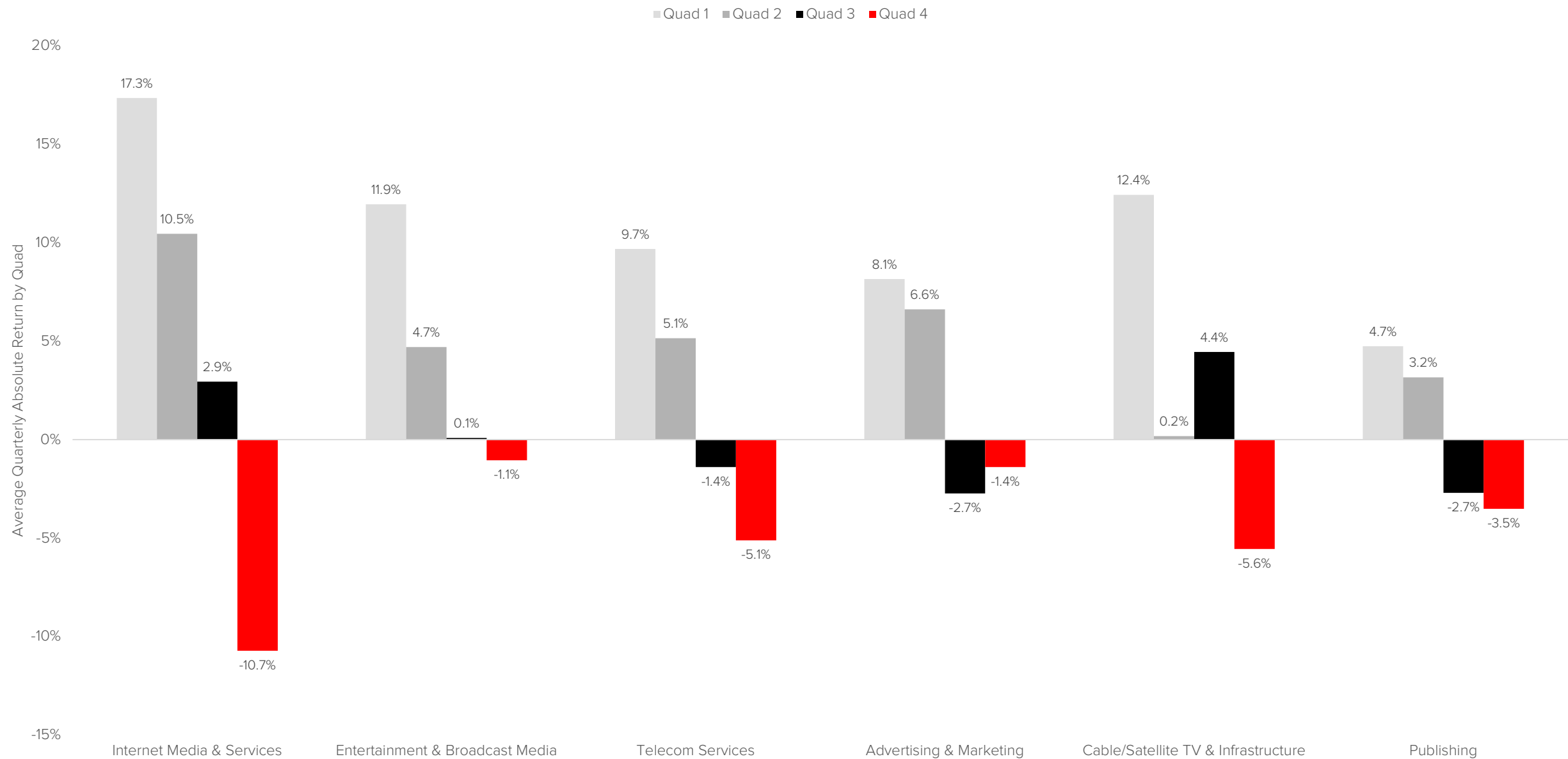
Active Long or Short = Idea that has gone through our research process, and have conviction in timing and fundamentals.

Bench Long or Short = Idea that is still going through our research process, but have long/short bias based on initial thematic, policy or fundamental work.

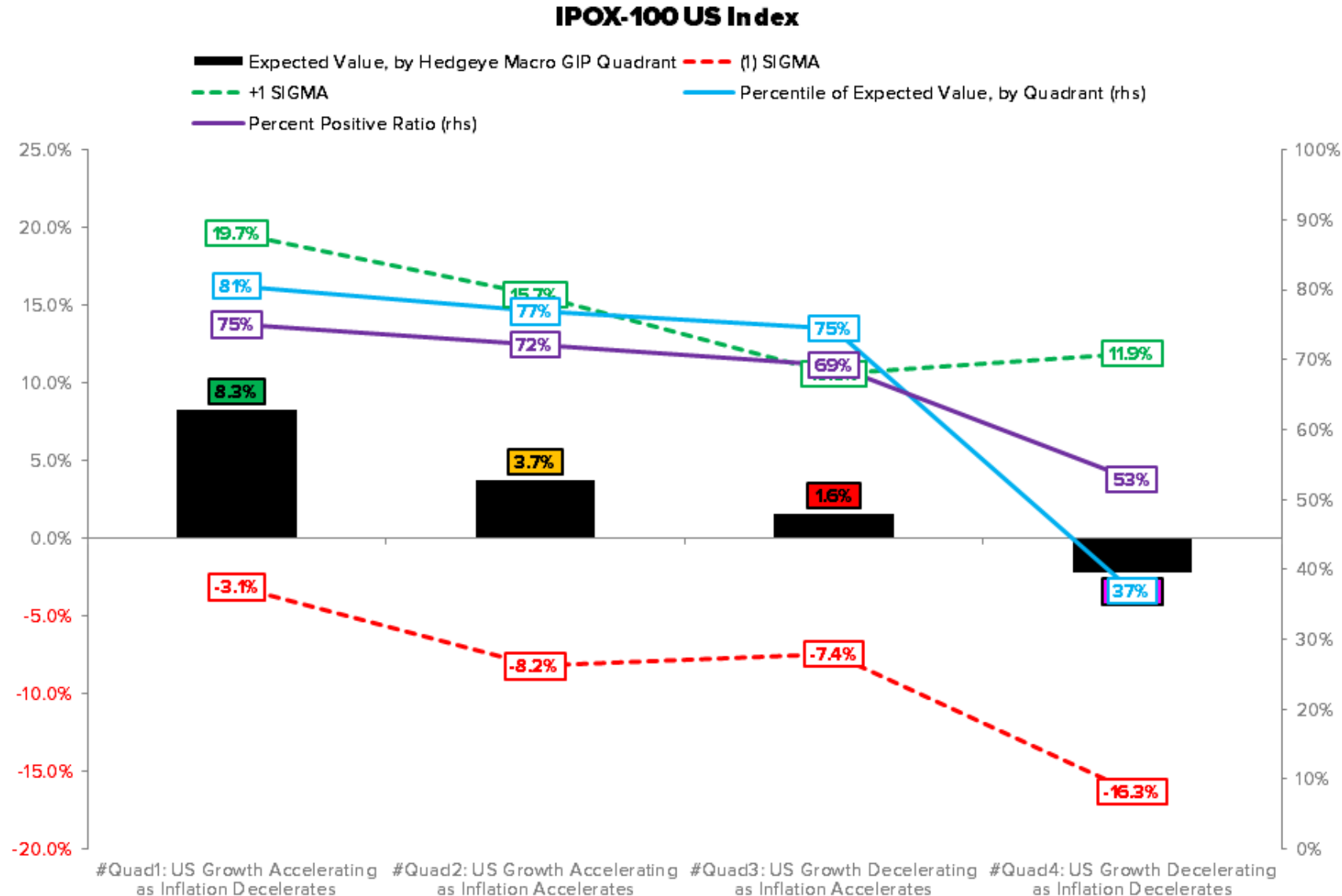
Hedgeye’s “bench” represents Hedgeye’s outlook on companies currently under Hedgeye’s review, or for which timing is not right for greater coverage. Hedgeye may or may not provide further commentary on any or all companies represented on the bench and representation of a company on the bench does not forecast whether Hedgeye will or will not issue any additional material on that company



# COMMUNICATIONS SECTOR QUAD BACKTEST - ABSOLUTE



# IPOs PERFORM POORLY IN QUAD 4

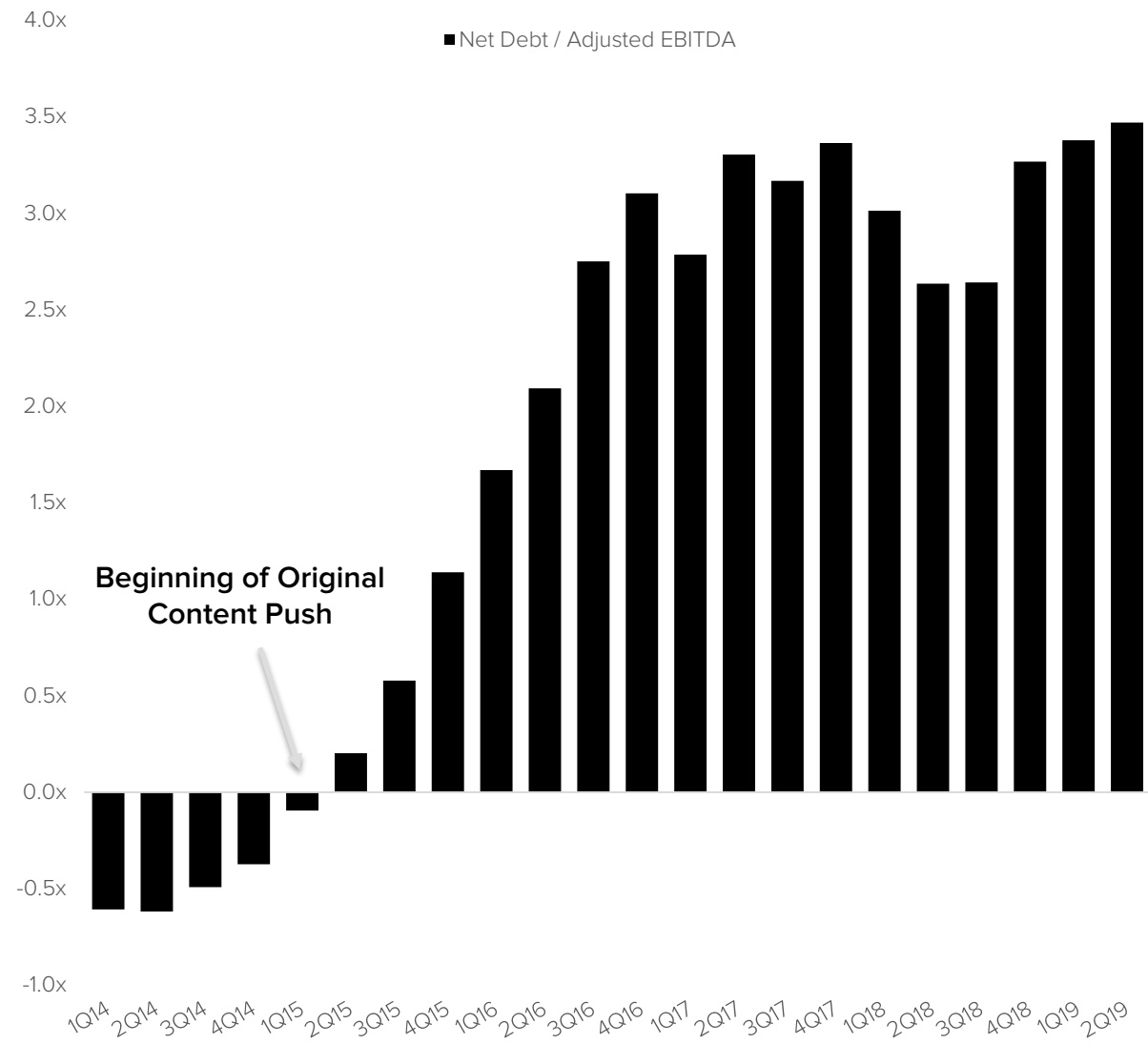


Data Source: Bloomberg. Asset classes include equities, fixed income, currencies and commodities. 20+ years of quarterly observations.

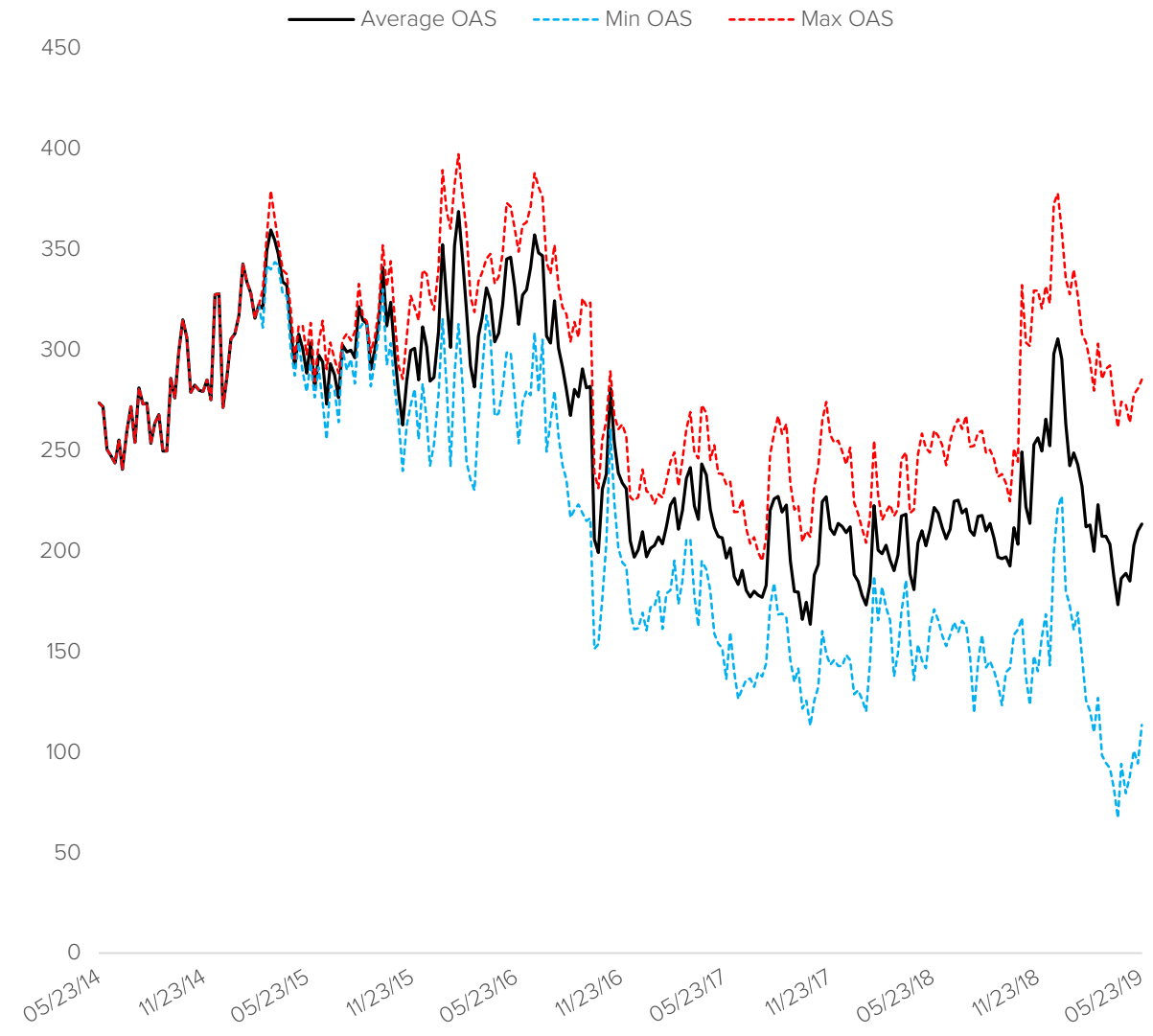


# NFLX LEVERAGED UP TO FUND CONTENT STRATEGY

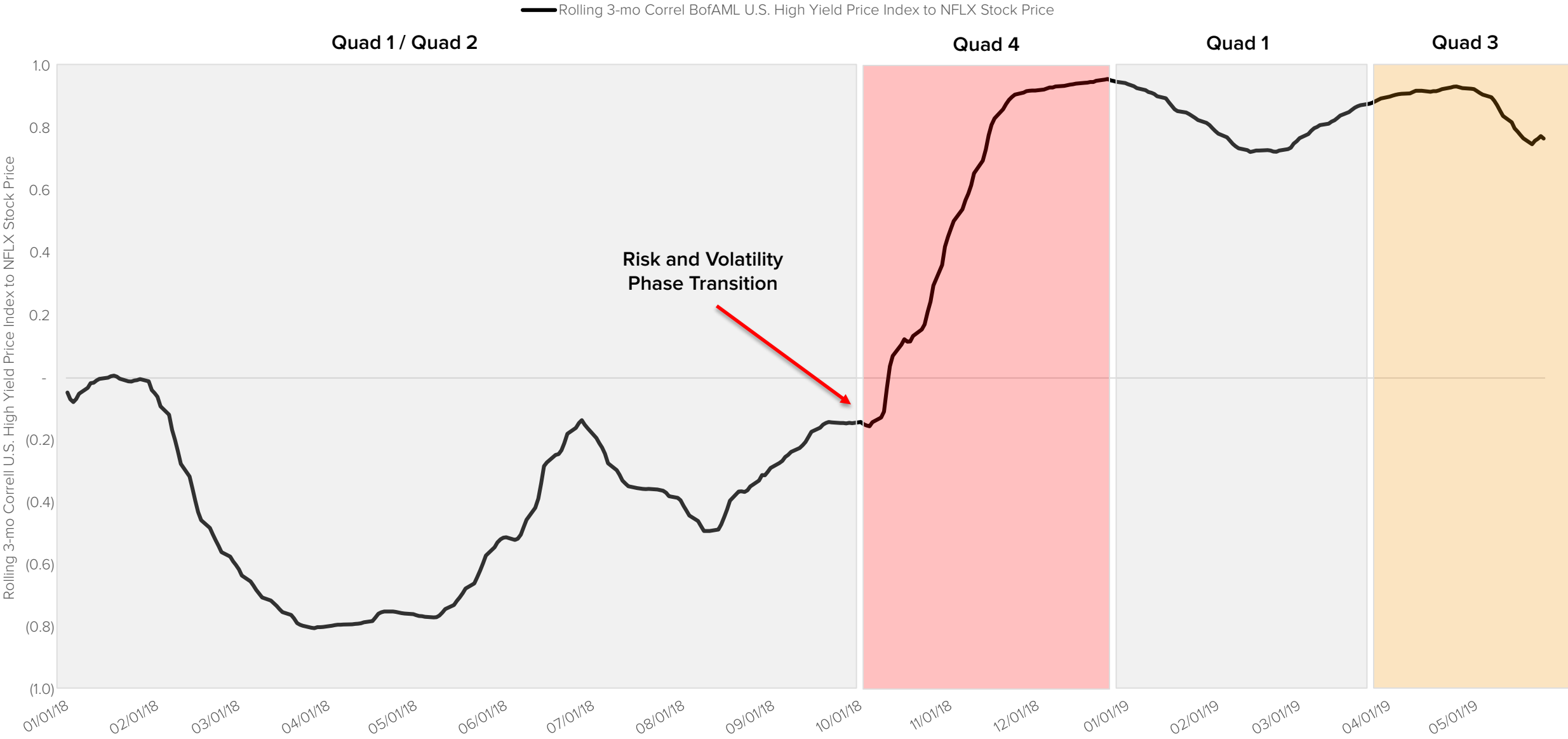
NFLX Net Debt / Adjusted EBITDA ~3.5x



NFLX Average OAS +200bps



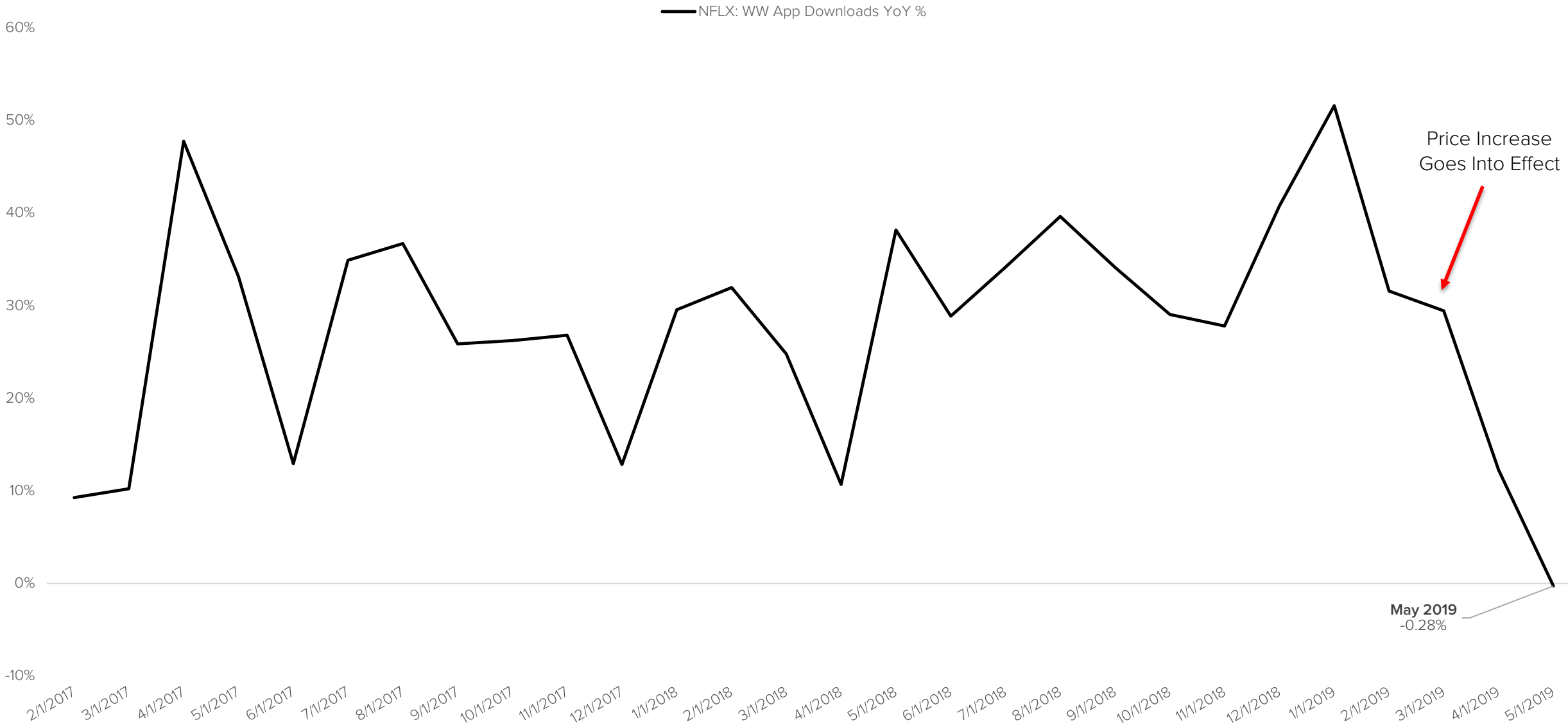
# NFLX STOCK PRICE CORRELATING TO HIGH YIELD





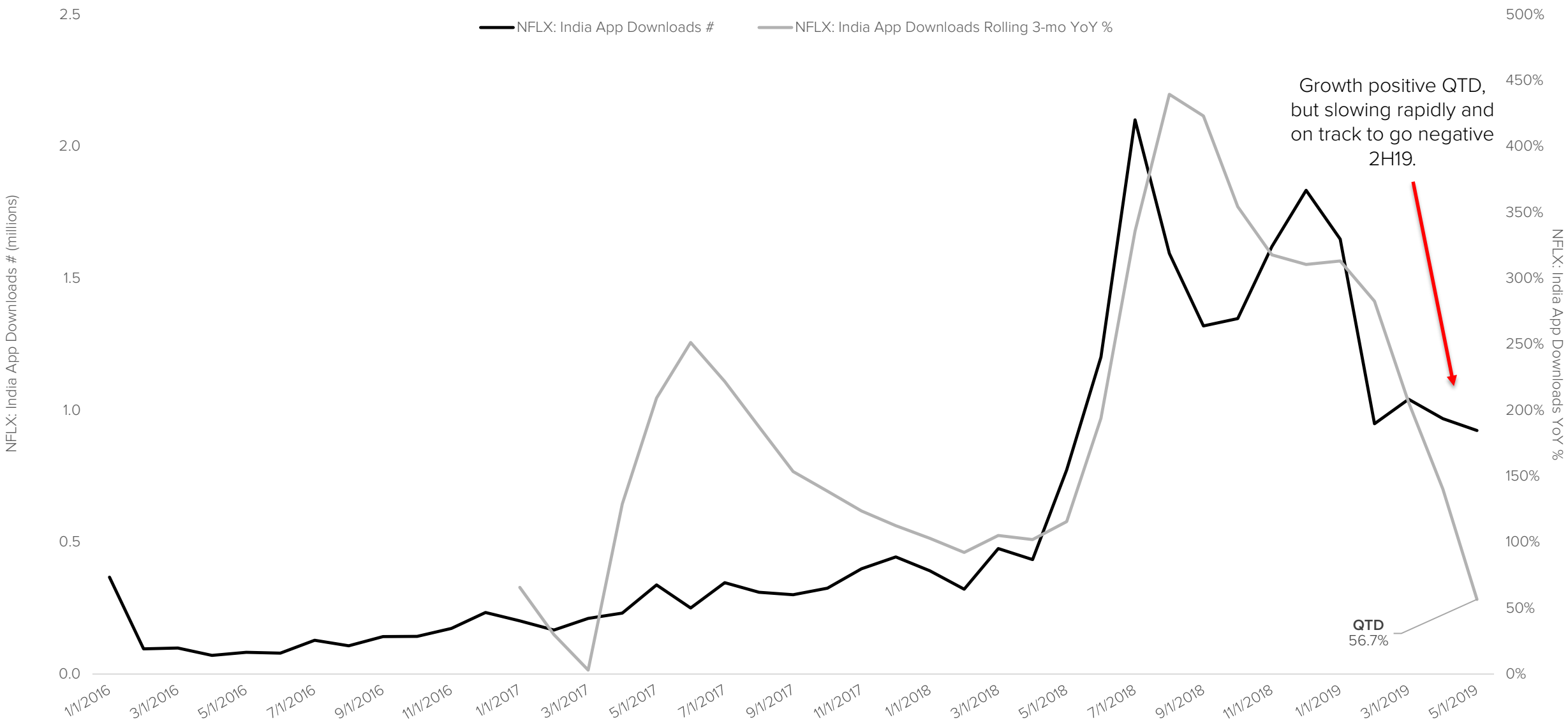
# NFLX-TRACKER | WW MOBILE APP DOWNLOADS

BEARISH



# NFLX-TRACKER | INDIA MOBILE APP DOWNLOADS

NEUTRAL

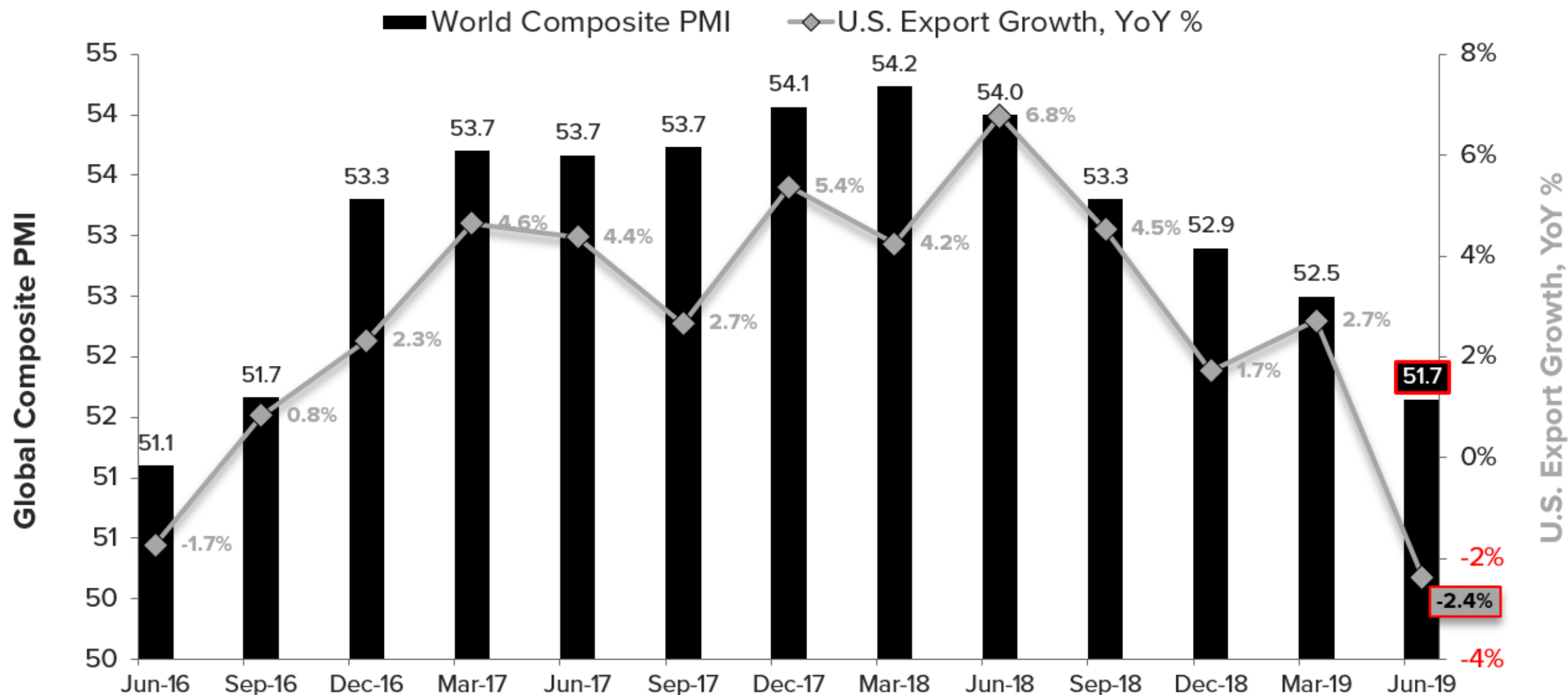


**MACRO GRIND**



# Gravity (The Cycle) vs Hope: Is Bad Still Good?

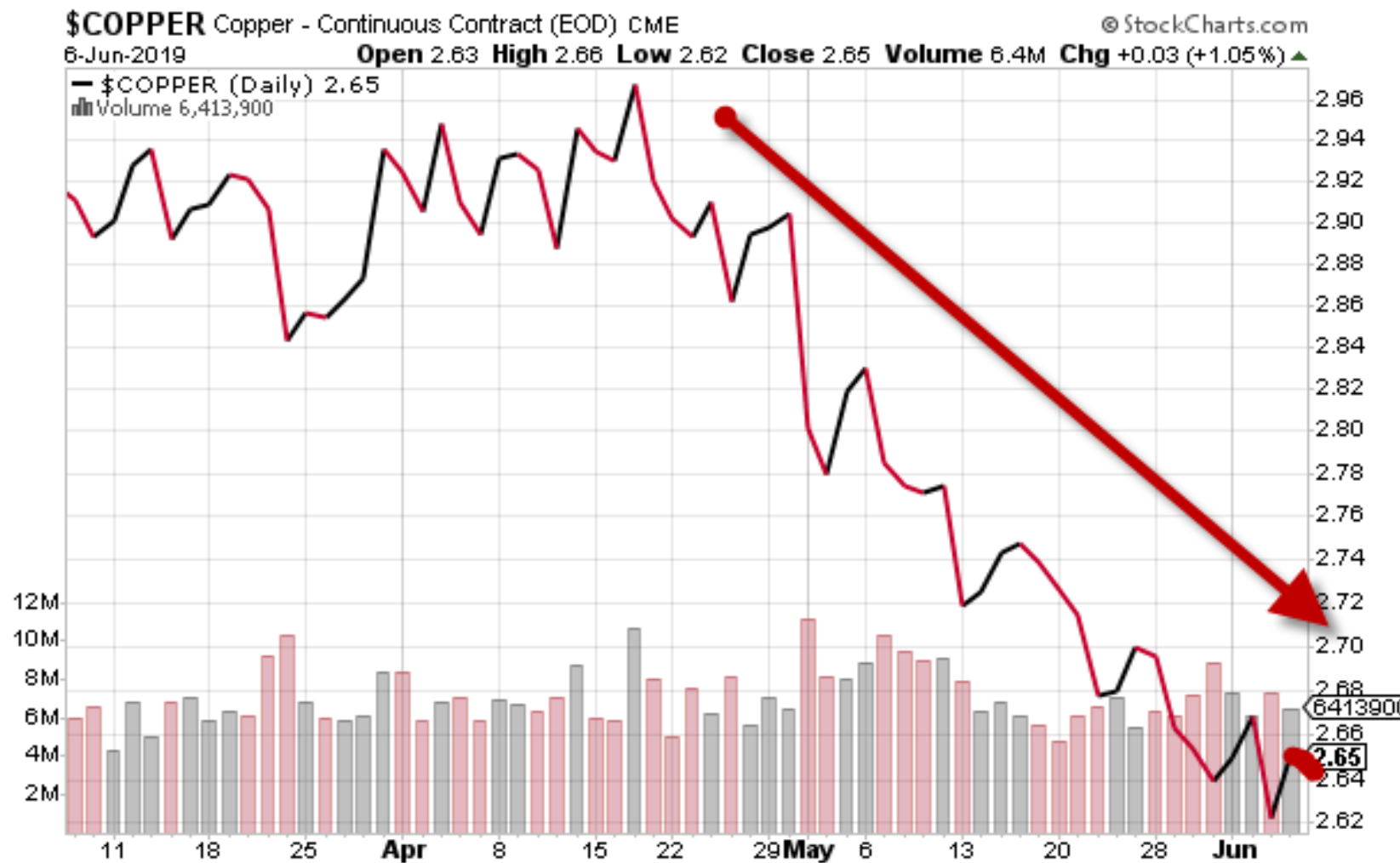
2019 Edition



# 10-Year Yields

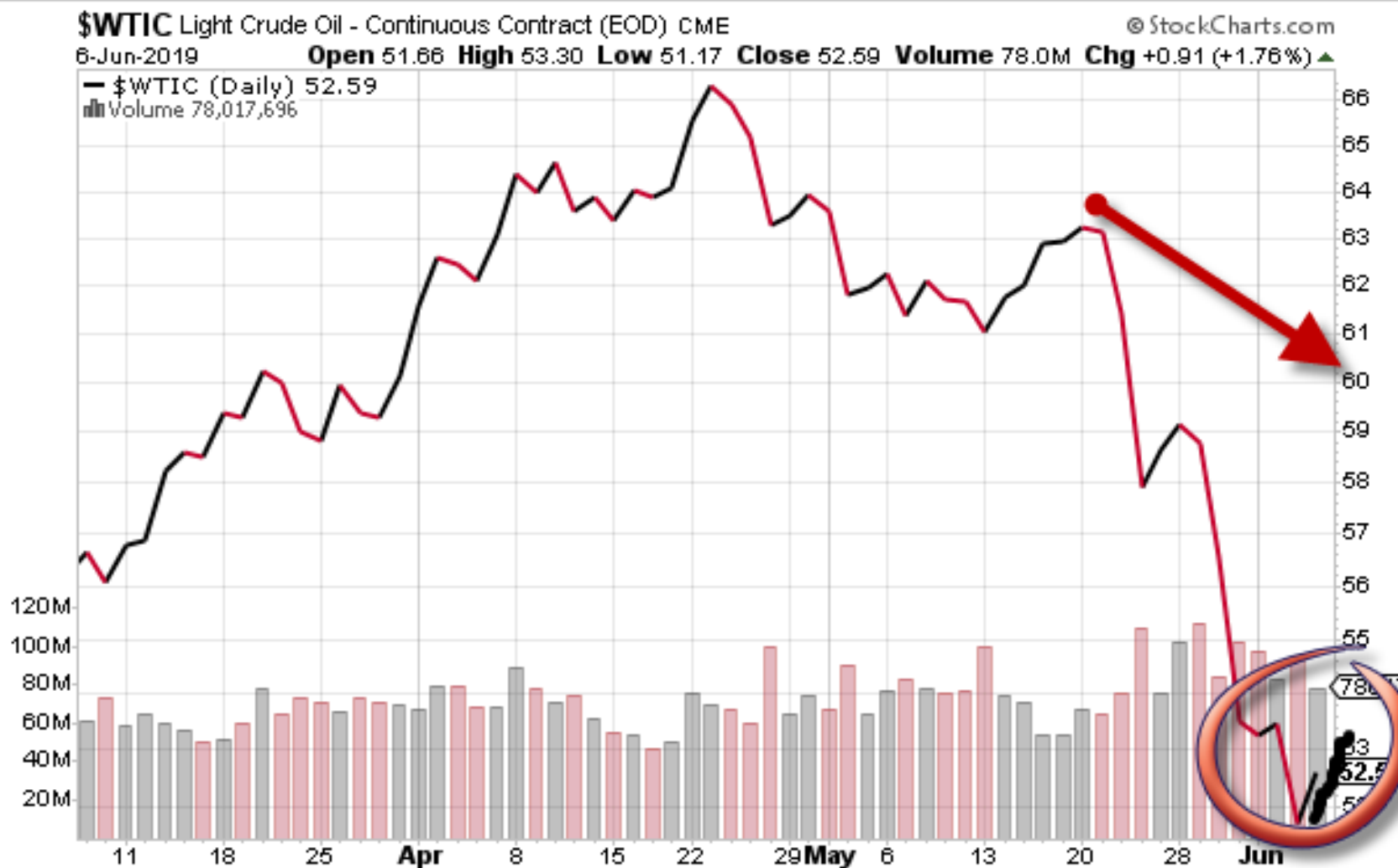
COUNTRY	YIELD	1 DAY
Germany »	-0.24%	+1
United Kingdom »	0.84%	+1
France	0.11%	0
Italy	2.43%	-6
Spain	0.59%	-1
Netherlands	-0.07%	+0
Portugal	0.65%	-1
Greece	2.83%	-5
Switzerland	-0.53%	+0

# Copper





# Light Crude Oil WTIC



# Australia ASX All Ords Composite



# South Korea Seoul Composite

**\$KOSPI** South Korea Seoul Composite (EOD) KRX

© StockCharts.com

5-Jun-2019

**Open** 2084.16 **High** 2086.49 **Low** 2065.71 **Close** 2069.11 **Chg** +2.14 (+0.10%) ▲

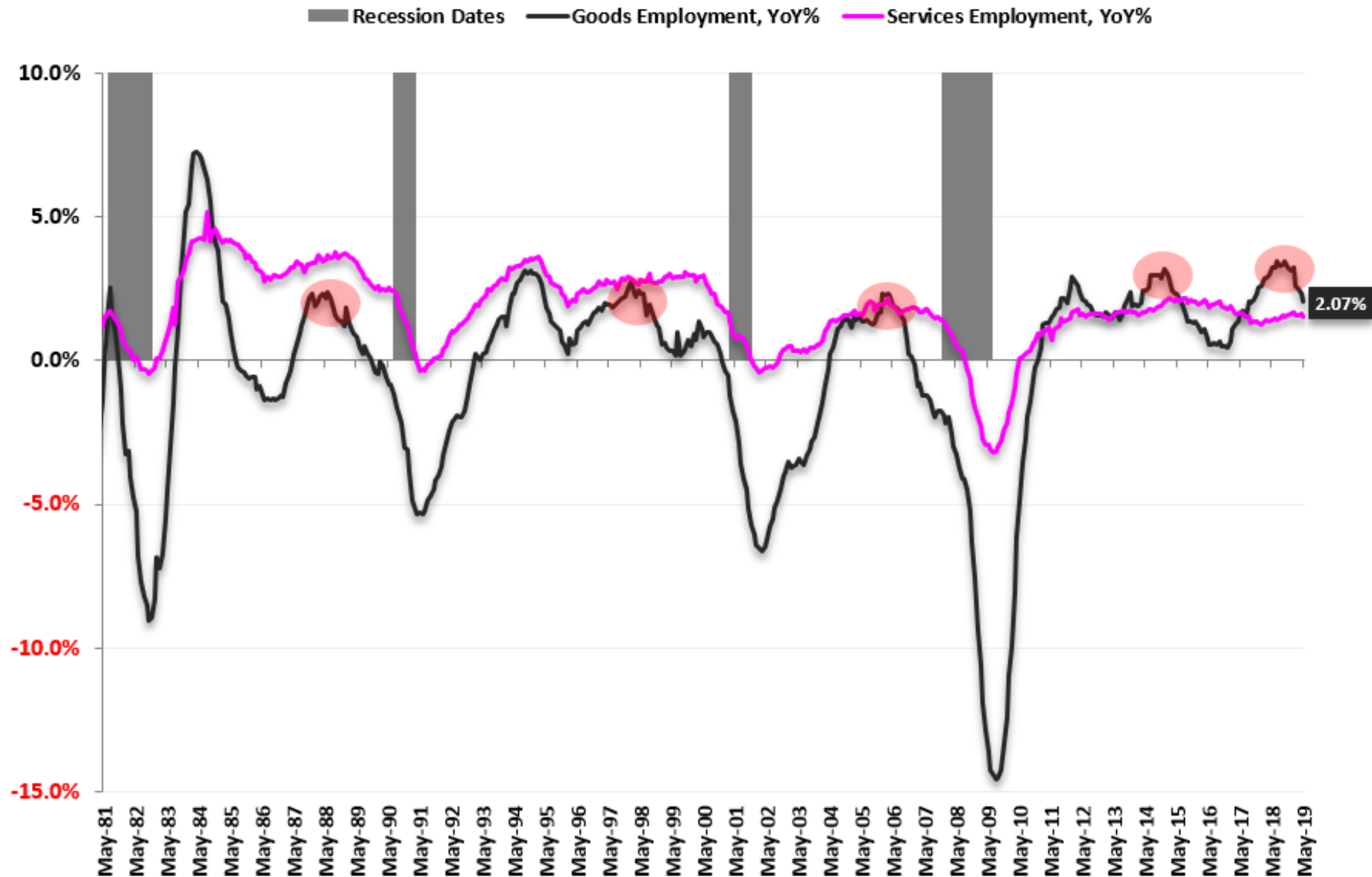
— \$KOSPI (Daily) 2069.11 (5 Jun)

Volume undef



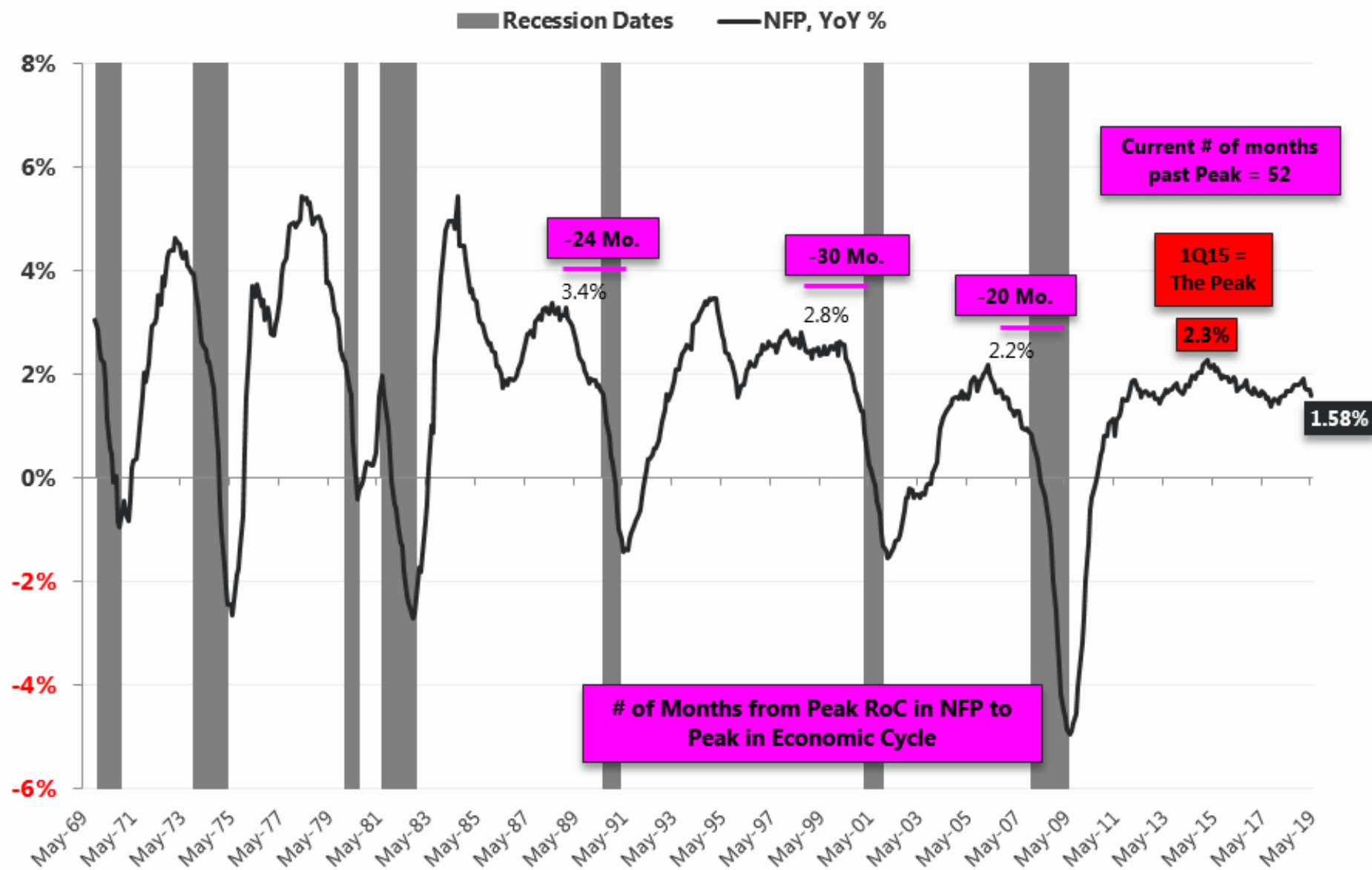


# NFP: Goods vs Services Employment



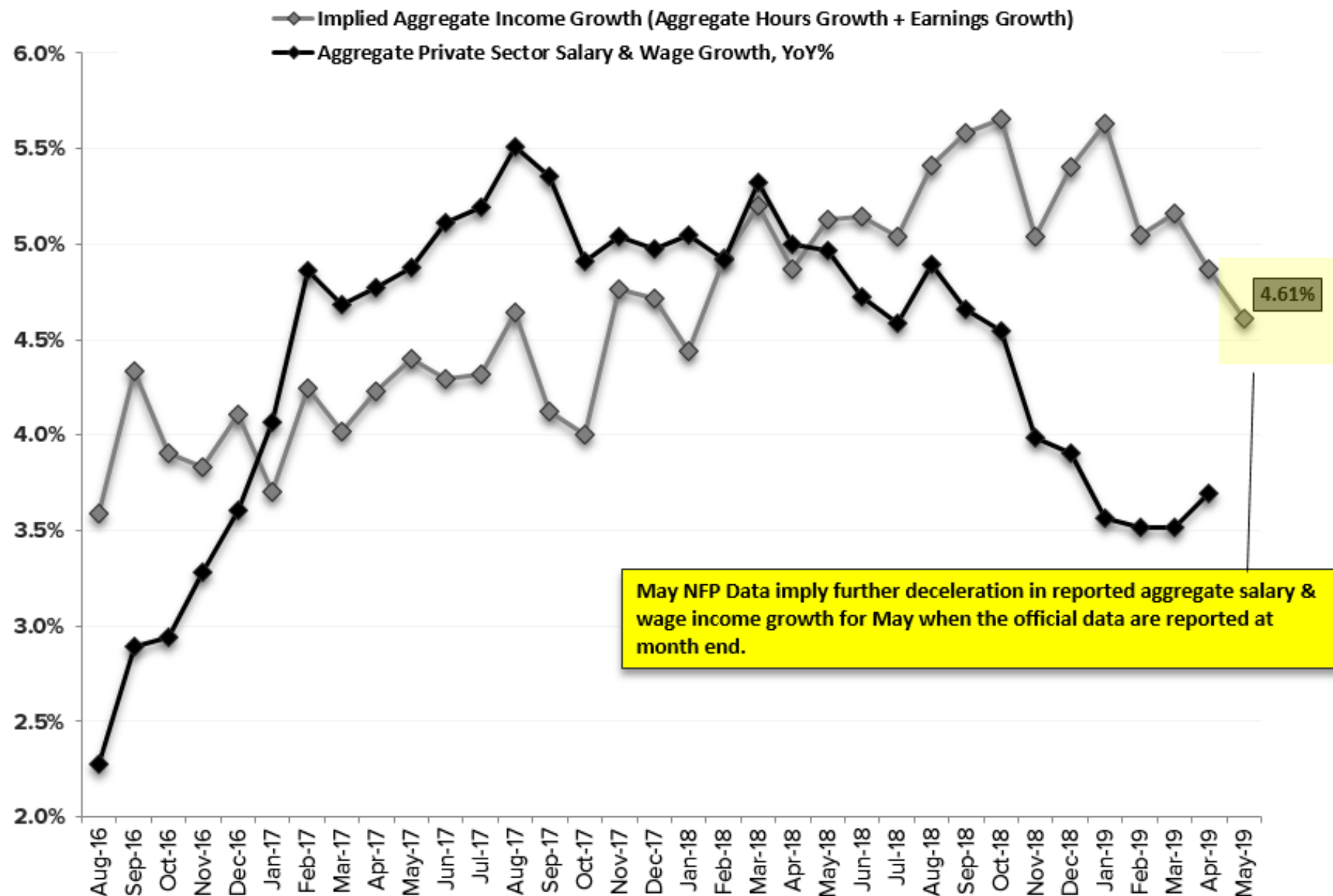
DATA SOURCE: BLOOMBERG, BEA, BLS, HEDGEYE

# NONFARM PAYROLL GROWTH, YOY



DATA SOURCE: BLOOMBERG, NBER, BLS, HRM

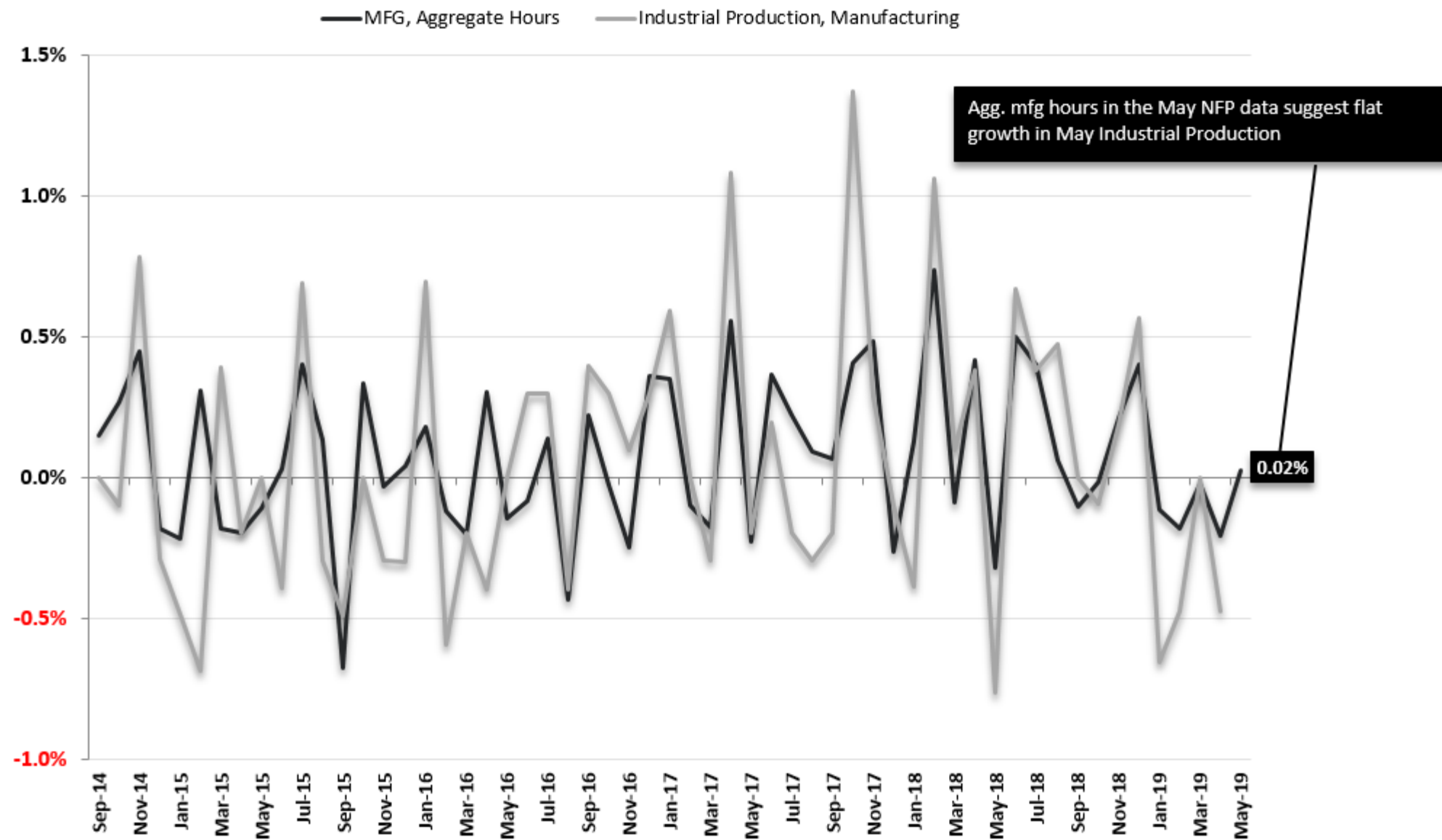
# Reported & Implied Income Growth

























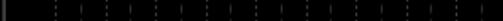
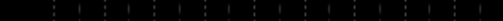
DATA SOURCE: BLOOMBERG, HEDGEYE



## Industrial Production vs. NFP Implied Industrial Activity



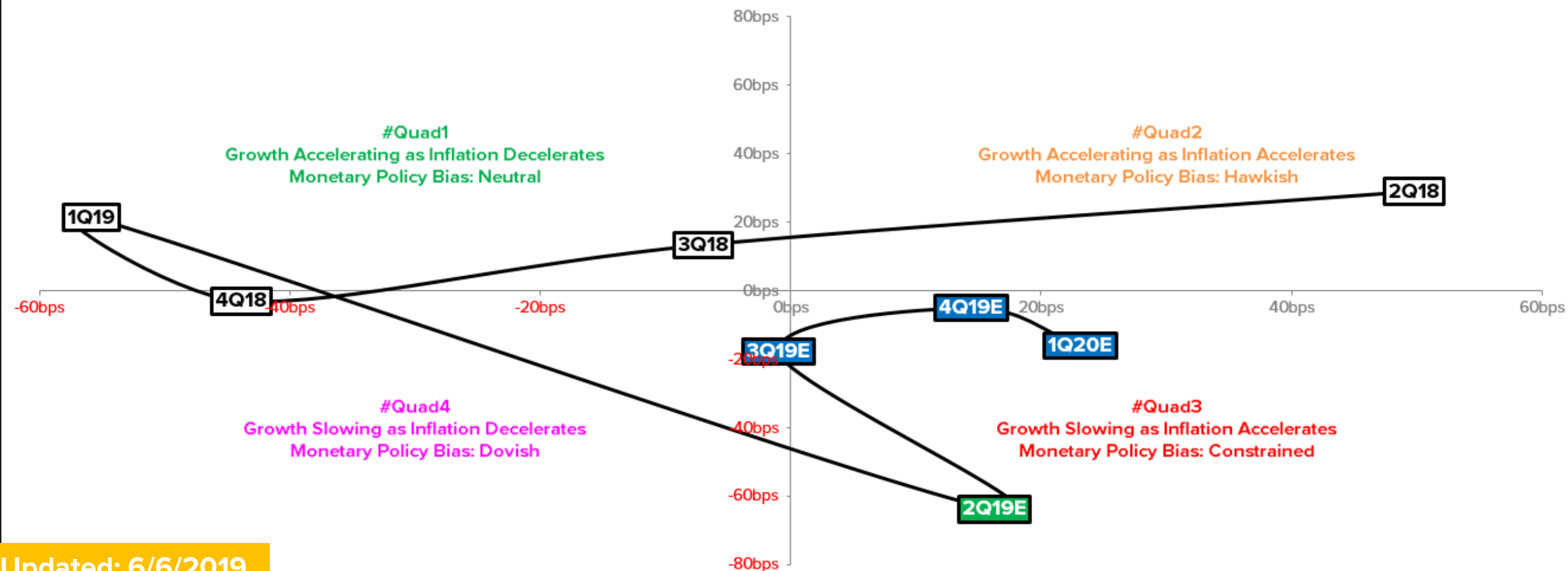
# Earnings

S&P 500 INDEX		Range CQ1 Ending: 2/16/2019 - 5/15/2019			
1) Surprise	2) Growth				
Sector (GICS)	Reported	Sales Growth		Earnings Growth	
11) All Securities	496 / 500		4.44%		1.57%
12) > Energy	29 / 29		-0.72%		-24.85%
13) > Materials	27 / 27		-2.93%		-16.99%
14) > Industrials	69 / 69		3.36%		3.34%
15) > Consumer Discretionary	62 / 63		3.85%		7.64%
16) > Consumer Staples	31 / 33		2.43%		0.49%
17) > Health Care	62 / 62		13.66%		9.07%
18) > Financials	67 / 67		2.65%		2.08%
19) > Information Technology	67 / 68		-0.99%		-5.79%
20) > Communication Services	22 / 22		11.51%		13.56%
21) > Utilities	28 / 28		0.99%		5.37%
22) > Real Estate	32 / 32		4.37%		6.94%

United States	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17	1Q18	2Q18	3Q18	4Q18	1Q19	← Actuals   Estimates →	2Q19E	3Q19E	4Q19E	1Q20E
Real GDP QoQ SAAR	2.30%	1.90%	1.80%	1.80%	3.00%	2.80%	2.30%	2.20%	4.20%	3.40%	2.20%	3.10%	Hedgeye Estimates	1.60%	2.61%	1.95%	2.40%
YoY Hurdle Rate	3.30%	1.00%	0.40%	1.50%	2.30%	1.90%	1.80%	1.80%	3.00%	2.80%	2.30%	2.20%	YoY Hurdle Rate	4.20%	3.40%	2.20%	3.10%
Real GDP YoY	1.30%	1.54%	1.88%	1.94%	2.11%	2.34%	2.47%	2.58%	2.87%	3.00%	2.97%	3.18%	Hedgeye Estimates	2.55%	2.37%	2.32%	2.16%
2Y Comparative Base Effect	2.99%	2.71%	2.35%	2.68%	2.33%	1.96%	1.94%	1.75%	1.71%	1.94%	2.18%	2.26%	2Y Comparative Base Effect	2.49%	2.67%	2.72%	2.88%
Headline CPI YoY	1.05%	1.12%	1.80%	2.54%	1.90%	1.97%	2.12%	2.21%	2.71%	2.64%	2.20%	1.64%	Headline CPI YoY	1.81%	1.80%	1.94%	2.17%
2Y Comparative Base Effect	1.01%	0.95%	0.86%	0.51%	0.50%	0.61%	1.13%	1.81%	1.48%	1.54%	1.96%	2.38%	2Y Comparative Base Effect	2.31%	2.30%	2.16%	1.93%

## United States

◆ x-axis: First Difference of YoY Headline CPI;  
y-axis: First Difference of YoY Real GDP



Updated: 6/6/2019

Data Source: Bloomberg. Green box = Hedgeye Predictive Tracking Algorithm nowcasts. Blue boxes = Hedgeye Comparative Base Effect Model estimates.

© Hedgeye Risk Management



# Our Risk Management Overlay is Rules-Based

## #QUAD1

- Maximum gross exposure, wide net exposure. Growth investing bias.
- **Asset Class Overweight(s):** Equities and Credit
- **Asset Class Underweight(s):** Fixed Income
- **Equity Sector Overweight(s):** Tech, Consumer Discretionary, Industrials, and Health Care
- **Equity Sector Underweight(s):** Utilities, Consumer Staples, Energy, and REITS
- **Equity Style Factor Overweight(s):** High Beta, Momentum, and Growth
- **Equity Style Factor Underweight(s):** Low Beta/Minimum Vol., High Dividend Yield, and Value
- **Fixed Income Overweight(s):** Convertibles, High Yield Credit, Leveraged Loans, and High Yield Munis,
- **Fixed Income Underweight(s):** TIPS, Long Duration Treasuries, and Short Duration Treasuries

## #QUAD2

- Maximum gross exposure, wide net exposure. Inflation-hedging bias.
- **Asset Class Overweight(s):** Equities and Credit
- **Asset Class Underweight(s):** Fixed Income
- **Equity Sector Overweight(s):** Tech, Industrials and Consumer Discretionary
- **Equity Sector Underweight(s):** Communication Services\*, Utilities, REITS, and Consumer Staples
- **Equity Style Factor Overweight(s):** Momentum, Growth, and Small Caps
- **Equity Style Factor Underweight(s):** Low Beta/Minimum Vol., Value, and High Dividend Yield
- **Fixed Income Overweight(s):** Convertibles, Leveraged Loans, High Yield Credit, and TIPS
- **Fixed Income Underweight(s):** Long Duration Treasuries, Munis, and Investment Grade Credit

## #QUAD3

- Middling gross exposure, tight net exposure. Defensive, yield-chasing bias.
- **Asset Class Overweight(s):** Fixed Income
- **Asset Class Underweight(s):** Equities and Credit
- **Equity Sector Overweight(s):** Utilities, Tech, Energy, and REITS
- **Equity Sector Underweight(s):** Financials, Materials, Communication Services\*, and Consumer Staples
- **Equity Style Factor Overweight(s):** Low Beta/Minimum Vol., Growth, and Quality
- **Equity Style Factor Underweight(s):** High Dividend Yield, Value, and Small Caps
- **Fixed Income Overweight(s):** Long Duration Treasuries, Taxable Munis, and TIPS
- **Fixed Income Underweight(s):** Convertibles, Leveraged Loans, and High Yield Credit

## #QUAD4

- Minimum gross exposure, net short exposure. Deflation-hedging bias.
- **Asset Class Overweight(s):** Fixed Income
- **Asset Class Underweight(s):** Equities and Credit
- **Equity Sector Overweight(s):** Consumer Staples, Health Care, REITS, and Utilities
- **Equity Sector Underweight(s):** Tech, Energy, Industrials, and Financials
- **Equity Style Factor Overweight(s):** High Dividend Yield, Low Beta/Minimum Vol. and Quality
- **Equity Style Factor Underweight(s):** Momentum, High Beta, and Growth
- **Fixed Income Overweight(s):** Long Duration Treasuries, Taxable Munis, and MBS
- **Fixed Income Underweight(s):** Convertibles, TIPS, Leveraged Loans, and High Yield Credit

# Sector Performance

<u>SECTOR</u>	<u>Ticker</u>	<u>Price</u>	<u>1-Day %</u> <u>Chg</u>	<u>MTD %</u> <u>Chg</u>	<u>QTD %</u> <u>Chg</u>	<u>YTD %</u> <u>Chg</u>
Consumer Discretionary	XLY	\$114.13	0.51%	2.88%	0.25%	15.27%
Financial Select Sector	XLF	\$27.16	0.37%	4.42%	5.64%	14.02%
Health Care Select Sector	XLV	\$90.07	0.51%	3.20%	-1.83%	4.12%
Technology Select Sector	XLK	\$74.80	1.16%	4.05%	1.08%	20.68%
Consumer Staples Select Sector	XLP	\$58.07	1.04%	4.42%	3.49%	14.36%
Industrial Select Sector	XLI	\$75.12	0.17%	4.26%	0.12%	16.63%
Materials Select Sector	XLB	\$57.02	1.19%	8.09%	2.74%	12.87%
The Energy Select Sector	XLE	\$60.99	1.85%	3.78%	-7.76%	6.35%
Utilities Select Sector	XLU	\$60.51	0.62%	3.88%	4.02%	14.34%
Real Estate Select Sector	XLRE	\$37.31	0.19%	2.30%	3.01%	20.35%
Communications Services Sector	XLC	\$46.81	0.43%	-0.59%	0.09%	13.40%
<b>S&amp;P 500</b>	<b>SPX</b>	<b>2,843.49</b>	<b>0.61%</b>	<b>3.32%</b>	<b>0.32%</b>	<b>13.43%</b>

# Sector Relative Performance

	<u>Ticker</u>	<u>Price</u>	<u>1-Day %</u> <u>Chg</u>	<u>MTD %</u> <u>Chg</u>	<u>QTD %</u> <u>Chg</u>	<u>YTD %</u> <u>Chg</u>
Consumer Discretionary	XLY	\$114.13	-0.10%	-0.45%	-0.07%	1.84%
Financial Select Sector	XLF	\$27.16	-0.24%	1.10%	5.32%	0.59%
Health Care Select Sector	XLV	\$90.07	-0.10%	-0.13%	-2.15%	-9.31%
Technology Select Sector	XLK	\$74.80	0.55%	0.73%	0.76%	7.26%
Consumer Staples Select Sector	XLP	\$58.07	0.43%	1.10%	3.17%	0.93%
Industrial Select Sector	XLI	\$75.12	-0.44%	0.94%	-0.20%	3.20%
Materials Select Sector	XLB	\$57.02	0.58%	4.77%	2.42%	-0.56%
The Energy Select Sector	XLE	\$60.99	1.24%	0.46%	-8.08%	-7.08%
Utilities Select Sector	XLU	\$60.51	0.00%	0.56%	3.70%	0.91%
Real Estate Select Sector	XLRE	\$37.31	-0.43%	-1.02%	2.69%	6.93%
Communications Services Sector	XLC	\$46.81	-0.18%	-3.92%	-0.24%	-0.03%

# Market Share Volume & Total Value Traded

<u>INDEX/SECURITY</u>	<b>VOLUME: (6/6) vs.</b>			
	<u>Prior Day</u>	<u>1M Ave</u>	<u>3M ave</u>	<u>1Y Ave</u>
Total Market Volume*	-6%	-4%	-8%	-14%
Total Exchange Volume**	-6%	-6%	-4%	-7%

\*Total Market Volume = Total US exchange volume plus OTC and OTCBB trading volume for all security types. Calculated by Bloomberg.

\*\*Tape A+B+C volume = total US exchange volume

\*\*\* Total Traded Value for Russell 3000 (total mkt proxy)



# Style Factor Performance

	FACTOR	1D % Chg	1W % Chg	1M % Chg	3M % Chg	6M % Chg	YTD % Chg
Debt	High Debt/EV	0.4%	3.1%	-3.9%	-0.2%	1.5%	12.9%
	Low Debt/EV	0.4%	2.3%	-3.0%	2.1%	8.0%	16.0%
SI	High Short Interest	0.3%	2.9%	-4.2%	0.0%	0.6%	11.9%
	Low Short Interest	0.5%	2.5%	-1.3%	3.9%	8.7%	16.3%
BETA	High Beta	0.5%	2.2%	-7.6%	-3.7%	-1.2%	11.5%
	Low Beta	0.5%	3.6%	2.1%	7.4%	9.9%	16.7%
YIELD	High Yield	0.3%	2.6%	-4.5%	-3.4%	-3.0%	6.2%
	Low Yield	0.4%	2.4%	-3.0%	3.0%	9.4%	18.8%
MKT CAP	MCAP Bottom 25%	0.0%	2.6%	-7.0%	-5.9%	-4.6%	6.9%
	MCAP Top 25%	0.5%	2.4%	-1.3%	3.6%	7.6%	14.8%
Sales	Top 25% Sales Growth	0.6%	1.7%	-3.7%	2.3%	7.4%	17.3%
	Bottom 25% Sales Growth	0.3%	2.6%	-4.2%	-1.8%	-1.2%	8.5%
EPS	Top 25% EPS Growth	0.6%	2.6%	-3.7%	1.9%	6.9%	16.6%
	Bottom 25% EPS Growth	0.2%	2.7%	-2.9%	-0.2%	0.8%	10.3%

*\*Mean Performance of Top Quartile vs. Bottom Quartile, S&P500 Companies*

June 7, 2019

# Rates & Spreads

		1D	5D	1M	3M	vs. 52-Wk, Bps		vs.	vs.
	Price	Bps Chg	Bps Chg	Bps Chg	Bps Chg	High	Low	3Y Ave	5Y Ave
3M T-Bill	2.30%	-3.1	-3.4	-11	-14	-18	41	92	144
3M LIBOR	2.47%	0.0	-3.1	-9	-13	-35	16	75	130
2Y T-Note	1.88%	2.2	-4.3	-41	-59	-109	11	8	53
5Y T-Note	1.89%	0.6	-2.8	-38	-56	-121	9	-25	-1
10Y T-Note	2.13%	-1.7	-0.7	-34	-52	-113	7	-33	-21
30Y T-Note	2.62%	-3.3	4.5	-25	-41	-84	10	-28	-28
2Y-10Y Spread, Bps	25	-3.2	4.3	7.3	8	-4	-4	-41	-74
IG SPREAD (AAABBB)	1.60%	0.0	-2.0	10	-2	-29	16	8	-1
HIGH YIELD	6.40%	-3.0	-17.0	20	-27	-172	30	19	-7
5Y BREAK-EVEN	1.62%	1.2	2.9	-14.8	-22.0	-50.3	15.4	-18.8	-6.0

# Key \$USD Correlations

METRIC	15D	30D	90D	120D	180D	52-Wk Rolling 30D Correlation			
						High	Low	% Time Pos	% Time Neg
SPX	0.21	0.07	0.52	0.60	0.30	0.72	-0.92	44%	56%
BRENT Oil	0.77	0.43	0.49	0.60	-0.10	0.71	-0.86	42%	58%
CRB Index	-0.19	0.19	0.06	0.60	0.20	0.66	-0.94	37%	63%
GOLD	-0.91	-0.72	-0.70	-0.39	0.18	0.54	-0.87	13%	87%

\*Days = Trading Days

# CFTC Non-Commercial Net Long Positioning

## CFTC NON-COMMERCIAL NET LONG POSITIONING

	METRIC	Latest	W/W Chg	3M Ave	6M Ave	1Y Ave	3Y		Z-Score	
							Max	Min	1Y	3Y
EQUITIES	SPX (Index + E-mini)	91,485	(3,360)	21,376	22,564	99,476	249,638	(128,189)	-0.08X	-0.08X
	VIX	(105,827)	(507)	(131,890)	(70,932)	(68,334)	92,913	(180,359)	-0.58X	-0.41X
	Russell 2000 (mini)	(13,890)	(1,825)	(5,683)	(15,149)	(19,317)	147,403	(93,066)	0.16X	-0.35X
	Dow Jones (mini)	8,781	(8,494)	22,846	21,530	23,992	95,976	(282)	-1.57X	-1.54X
	Nasdaq (mini)	18,608	4,882	1,589	(4,471)	8,884	163,838	(24,815)	0.50X	-0.54X
	Nikkei Index	(13,564)	759	(13,194)	(12,187)	(8,802)	14,214	(16,298)	-0.96X	-1.84X
RATES	10Y UST	(379,736)	(38,522)	(218,921)	(205,849)	(345,694)	372,991	(758,490)	-0.18X	-0.94X
	2Y UST	(101,291)	(72,338)	(108,096)	(206,619)	(185,739)	104,027	(421,551)	0.66X	0.10X
	5Y UST	(108,271)	37,079	(117,137)	(165,668)	(425,641)	(13,496)	(866,140)	1.09X	1.02X
	UST Bonds	(36,29)	(1,208)	(38,197)	(37,694)	(45,196)	122,839	(142,810)	0.27X	-0.78X
	30D Fed Funds	(190,537)	(38,008)	(150,446)	(126,728)	(48,486)	219,071	(286,025)	-1.27X	-1.17X
	Eurodollar	439,343	32,520	(30,889)	(665,541)	(1,520,486)	439,343	(3,110,209)	1.90X	2.40X
CURRENCIES	USD	27,091	386	28,740	31,255	30,631	56,635	(10,666)	-0.45X	0.27X
	JPY	(55,737)	(686)	(71,021)	(68,082)	(68,884)	69,211	(140,151)	0.46X	-0.08X
	EUR	(104,777)	1,980	(98,054)	(75,595)	(36,942)	147,318	(143,673)	-1.37X	-1.23X
	GBP	(31,456)	(5,906)	(13,644)	(30,271)	(37,389)	49,216	(113,271)	0.27X	0.12X
	AUD	(64,257)	49	(54,279)	(45,872)	(49,455)	77,969	(74,181)	-1.07X	-1.56X
	CAD	(40,733)	2,264	(44,505)	(42,732)	(32,991)	78,001	(99,736)	-0.45X	-0.85X
	MXN	142,430	(3,967)	135,669	90,284	57,361	156,013	(89,524)	1.57X	1.67X
	NZD	(16,186)	(5,275)	(5,290)	(4,188)	(13,898)	35,981	(35,412)	-0.18X	-0.84X
COMMODITIES	CHF	(35,402)	2,833	(32,743)	(26,872)	(28,919)	10,064	(47,216)	-0.59X	-1.30X
	CRUDE OIL	487,251	(33,706)	498,221	431,390	502,462	784,290	278,615	-0.14X	-0.16X
	GOLD	33,134	8,756	34,565	43,843	2,445	286,921	(103,009)	0.55X	-0.70X
	COPPER	(24,665)	(2,490)	1,222	(2,696)	5,012	67,602	(44,710)	-1.57X	-1.75X
	Natural Gas	(87,111)	(25,270)	(50,786)	(26,579)	(39,670)	57,455	(175,051)	-1.13X	-0.59X
	RBOB Gasoline	80,850	(9,079)	90,499	87,062	92,908	114,862	29,519	-1.12X	0.28X
	ULSD Heating Oil	(21,828)	(6,894)	(15,069)	(11,204)	13,158	67,696	(21,828)	-1.33X	-2.10X
	Silver	(26,016)	(5,902)	6,409	23,620	10,974	107,003	(30,158)	-1.38X	-1.76X
	Platinum	7,334	(7,602)	24,794	16,967	9,671	56,853	(11,540)	-0.17X	-0.94X
	Aluminum	163,475	(2,043)	159,128	161,735	157,727	168,292	122,356	0.55X	1.31X
	Nickel	42,230	(365)	42,658	44,005	37,006	47,708	13,508	0.60X	1.21X
	Corn	67,333	101,420	(175,310)	(41,551)	764	373,443	(270,560)	0.52X	0.23X
	Soybeans	(102,237)	24,988	(84,613)	(41,041)	(38,881)	255,950	(148,817)	-1.38X	-1.45X
	Wheat	(8,479)	13,134	(50,004)	(30,663)	(10,195)	63,219	(143,292)	0.05X	0.80X
	Live Cattle	99,033	(6,140)	152,122	137,782	104,714	183,134	19,421	-0.13X	-0.01X
	Lean Hogs	89,008	(1,965)	72,148	47,448	30,143	97,769	(11,151)	1.80X	1.61X
	Sugar	(145,405)	(4,993)	(62,605)	(36,383)	(30,379)	351,383	(145,405)	-2.09X	-1.32X
	Cotton	(24,263)	1,370	13,168	14,189	47,657	132,318	(25,633)	-1.75X	-2.66X
	Coffee	(49,447)	9,162	(64,090)	(57,481)	(62,329)	67,942	(106,651)	0.60X	-0.65X
	Cocoa	26,425	9,913	(4,793)	2,943	5,825	61,244	(43,846)	1.02X	0.81X
	Orange Juice	(6,863)	208	(7,158)	(7,524)	(3,619)	10,123	(9,416)	-0.62X	-1.31X

HEDGEYE TV

The Macro Show

June 7, 2019



# Volatility

TIME WINDOW SETTING:		TOTAL RETURN		IVOL PREMIUM/DISCOUNT					REALIZED VOLATILITY TRENDS			IMPLIED VOLATILITY TRENDS		
VOLATILITY_30D		PERFORMANCE		IVOL PREM %					RVOL		PERCENTILE	IVOL		PERCENTILE
PUT_IMP_VOL_30D	TICKER	YTD %	IVOL / RVOL	Yesterday	1W Ago	1M Ago	TTM Z-Score	3Yr Z-Score	CURRENT	MM %	10YR	CURRENT	MM %	10YR
US EQUITIES														
CURRENT														
Technology Sector SPDR ETF	XLK US EQUITY	21.07%	-12%	-8%	16%	95%	-0.6	-0.7	22.6	156%	85%	19.8	15%	76%
Vanguard Real Estate REIT ETF	VNQ US EQUITY	19.78%	-7%	-6%	0%	-2%	-0.3	-0.5	13.4	6%	40%	12.4	0%	25%
Industrials Sector SPDR ETF	XLI US EQUITY	17.30%	-2%	-1%	10%	13%	-0.3	-0.4	17.7	27%	67%	17.4	11%	61%
Consumer Discretionary Sector SPDR ETF	XLY US EQUITY	15.66%	-9%	-5%	15%	54%	-0.7	-0.8	17.5	82%	71%	16.0	8%	57%
Power Shares QQQ Trust ETF	QQQ US EQUITY	15.35%	-7%	-4%	19%	78%	-0.5	-0.6	21.1	130%	82%	19.6	20%	73%
Utilities Sector SPDR ETF	XLU US EQUITY	15.19%	-13%	-8%	-8%	8%	-0.7	-1.0	14.8	38%	64%	12.9	12%	39%
Consumer Staples Sector SPDR ETF	XLP US EQUITY	14.98%	-15%	-23%	10%	27%	-0.7	-0.9	13.5	55%	76%	11.5	4%	48%
Financials Sector SPDR ETF	XLF US EQUITY	14.60%	-1%	3%	30%	25%	-0.5	-0.4	17.8	43%	58%	17.6	13%	50%
SPDR S&P 500 ETF Trust	SPY US EQUITY	14.46%	-10%	-6%	19%	65%	-0.6	-0.7	15.5	106%	68%	13.9	12%	53%
Communication Services SPDR ETF	XLC US EQUITY	13.60%	-9%	-8%	4%	42%			21.5	82%	63%	19.6	17%	51%
Materials Sector SPDR ETF	XLB US EQUITY	13.35%	-15%	-18%	14%	24%	-0.9	-1.0	21.8	57%	71%	18.4	7%	55%
I-Shares Russell 2000 ETF	IWM US EQUITY	12.18%	-8%	-8%	6%	33%	-0.6	-0.7	19.9	58%	69%	18.3	10%	52%
Energy Sector SPDR ETF	XLE US EQUITY	7.18%	4%	19%	16%	16%	0.2	-0.1	20.4	23%	57%	21.1	10%	56%
Health Care Sector SPDR ETF	XLV US EQUITY	4.50%	11%	10%	22%	-5%	0.2	0.0	13.4	-11%	51%	14.9	3%	57%
INTERNATIONAL EQUITIES														
Euro Stoxx 50 Index	SX5E INDEX	14.45%	-10%	-7%	0%	64%	-0.8	-0.8	15.9	101%	42%	14.3	10%	24%
I-Shares MSCI Japan ETF	EWJ US EQUITY	6.00%	-17%	-11%	-8%	31%	-1.0	-1.0	15.0	52%	45%	12.4	-4%	17%
I-Shares MSCI Emerging Markets ETF	EEM US EQUITY	4.61%	2%	6%	7%	29%	0.2	-0.1	18.0	37%	41%	18.5	8%	36%
I-Shares China Large-Cap ETF	FXI US EQUITY	2.74%	-2%	3%	2%	23%	-0.1	-0.3	19.8	22%	35%	19.5	-2%	21%
CURRENCIES														
PowerShares US Dollar Index ETF	UUP US EQUITY	2.75%	57%	53%	23%	57%	0.5	0.9	4.0	0%	5%	6.2	0%	11%
Currency Shares Japanese Yen ETF	FXJ US EQUITY	0.79%	31%	27%	35%	38%	1.0	1.2	5.4	30%	8%	7.1	23%	15%
Currency Shares British Pound ETF	FXB US EQUITY	-0.45%	10%	15%	18%	-6%	-0.3	0.1	6.2	-19%	16%	6.9	-4%	16%
Currency Shares Euro Trust ETF	FXE US EQUITY	-1.93%	48%	58%	19%	27%	2.8	2.2	3.9	-8%	3%	5.8	8%	6%
COMMODITIES														
United States Oil Fund ETF	USO US EQUITY	14.49%	9%	28%	21%	19%	0.2	0.2	35.6	54%	74%	39.0	42%	78%
SPDR Gold Shares ETF	GLD US EQUITY	3.82%	17%	13%	20%	-1%	0.8	0.6	9.0	8%	8%	10.5	27%	15%
PowerShares DB Agriculture Fund ETF	DBA US EQUITY	-1.77%	-1%	3%	13%	29%	-1.3	-1.3	13.7	33%	66%	13.6	2%	32%
United States Natural Gas Fund ETF	UNG US EQUITY	-19.02%	25%	62%	11%	33%	0.8	0.9	26.0	35%	16%	32.5	27%	26%
FIXED INCOME														
I-Shares IBOX IG Corporate Bond ETF	LOD US EQUITY	8.91%	32%	33%	22%	-8%	0.7	0.8	3.7	-15%	11%	4.9	21%	31%
I-Shares J.P. Morgan USD EM Bond ETF	EMB US EQUITY	8.87%	-6%	-1%	2%	43%	-0.9	-1.1	5.4	39%	45%	5.1	-9%	8%
I-Shares 20+ Year Treasury Bond ETF	TLT US EQUITY	8.65%	28%	20%	33%	-12%	1.4	1.5	9.1	1%	10%	11.6	47%	35%
I-Shares IBOX HY Corporate Bond ETF	HYG US EQUITY	8.27%	-11%	-2%	29%	26%	-0.8	-0.8	6.4	65%	56%	5.6	17%	27%
I-Shares 7-10 Year Treasury Bond ETF	IEF US EQUITY	5.47%	35%	37%	38%	-2%	0.1	0.3	4.5	0%	20%	6.1	37%	49%

Data Source: CBOE, CME, Bloomberg

# Global Data Releases

Date Time	Country/Region	Event	Period	Survey	Actual	Prior	Revised
06/06/19 02:15	India	RBI Repurchase Rate	43622	0.0575	5.75%	6.00%	--
06/06/19 02:15	India	RBI Reverse Repo Rate	43622	0.055	5.50E-02	5.75E-02	--
06/06/19 02:15	India	RBI Cash Reserve Ratio	43622	4.00%	4.00%	4.00%	--
06/06/19 04:49	Hong Kong	Foreign Reserves	May	--	4.38E+11	4.36E+11	--
06/06/19 18:30	Australia	AiG Perf of Construction Index	May	--	40.4	42.6	--
06/06/19 18:45	New Zealand	Volume of All Buildings SA QoQ	1Q	1.10%	6.20%	2.70%	3.40%
06/06/19 19:30	Japan	Household Spending YoY	Apr	2.60%	1.30%	2.10%	--
06/06/19 19:30	Japan	Labor Cash Earnings YoY	Apr	-0.70%	-0.10%	-1.90%	-0.013
06/06/19 19:30	Japan	Real Cash Earnings YoY	Apr	-1.50%	-1.10%	-2.50%	-0.019
06/06/19 19:50	Japan	Official Reserve Assets	May	--	1.31E+12	1.29E+12	--
06/06/19 21:30	Australia	Home Loans MoM	Apr	0.00%	-1.10%	-2.80%	-2.60%
06/06/19 21:30	Australia	Investment Lending	Apr	1.00%	-2.20%	-2.70%	-2.40%
06/06/19 21:30	Australia	Owner-Occupier Loan Value MoM	Apr	0.00%	1.00%	-3.40%	-3.10%
06/07/19 01:00	Japan	Leading Index CI	Apr P	95.80	95.50	95.90	--
06/07/19 01:00	Japan	Coincident Index	Apr P	100.20	101.90	99.40	--
06/07/19 02:30	Australia	Foreign Reserves	May	--	7.99E+10	7.57E+10	--
06/07/19 03:30	Thailand	Foreign Reserves	43616	--	2.10E+11	2.09E+11	--
06/07/19 03:30	Thailand	Forward Contracts	43616	--	3.51E+10	3.48E+10	--
06/07/19 04:09	Philippines	Foreign Reserves	May	--	8.50E+10	8.40E+10	8.39E+10
06/07/19 05:00	Singapore	Foreign Reserves	May	--	2.65E+11	2.97E+11	--
06/06/19 07:45	Eurozone	ECB Main Refinancing Rate	6-Jun	0.00%	0.00%	0.00%	--
06/06/19 07:45	Eurozone	ECB Marginal Lending Facility	6-Jun	0.25%	0.25%	0.25%	--
06/06/19 07:45	Eurozone	ECB Deposit Facility Rate	43622	-0.40%	-0.40%	-0.40%	--
06/07/19 00:30	Netherlands	Manufacturing Production MoM	Apr	--	-0.60%	-0.50%	--
06/07/19 00:30	Netherlands	Manufacturing Production YoY	Apr	--	-1.20%	-1.00%	-0.004
06/07/19 00:30	Netherlands	Industrial Sales YoY	Apr	--	3.10%	-3.80%	--
06/07/19 01:00	Estonia	CPI MoM	May	--	0.20%	1.30%	--
06/07/19 01:00	Estonia	CPI YoY	May	--	3.10%	3.20%	--
06/07/19 02:00	Germany	Industrial Production SA MoM	Apr	-0.50%	-1.90%	0.50%	--
06/07/19 02:00	Germany	Industrial Production WDA YoY	Apr	-0.40%	-1.80%	-0.90%	--
06/07/19 02:00	Germany	Trade Balance	Apr	1.95E+10	1.79E+10	2.27E+10	2.26E+10
06/07/19 02:00	Germany	Current Account Balance	Apr	--	2.26E+10	3.02E+10	3.09E+10
06/07/19 02:00	Germany	Exports SA MoM	Apr	-0.90%	-3.70%	1.50%	1.60%
06/07/19 02:00	Germany	Imports SA MoM	Apr	-0.20%	-1.30%	0.40%	0.70%
06/07/19 02:00	Germany	Labor Costs SA QoQ	1Q	--	1.10%	-0.10%	0.20%
06/07/19 02:00	Germany	Labor Costs WDA YoY	1Q	--	2.50%	2.00%	--
06/07/19 02:00	Lithuania	Trade Balance	Apr	--	-	-	-1.30E+08
06/07/19 02:00	Finland	Trade Balance	Apr P	--	-	-	-1.15E+08