

# **AMI JOSEPH**

## **HEDGEYE TECHNOLOGY SECTOR**

# LEGAL

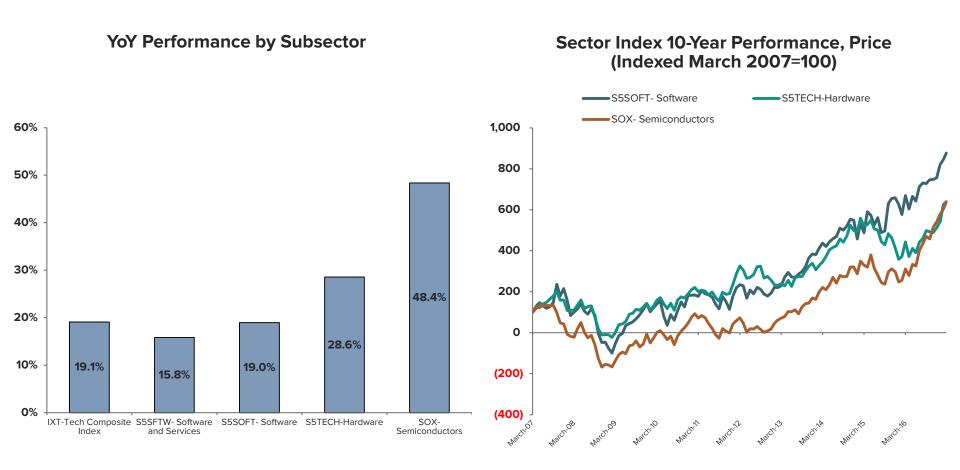
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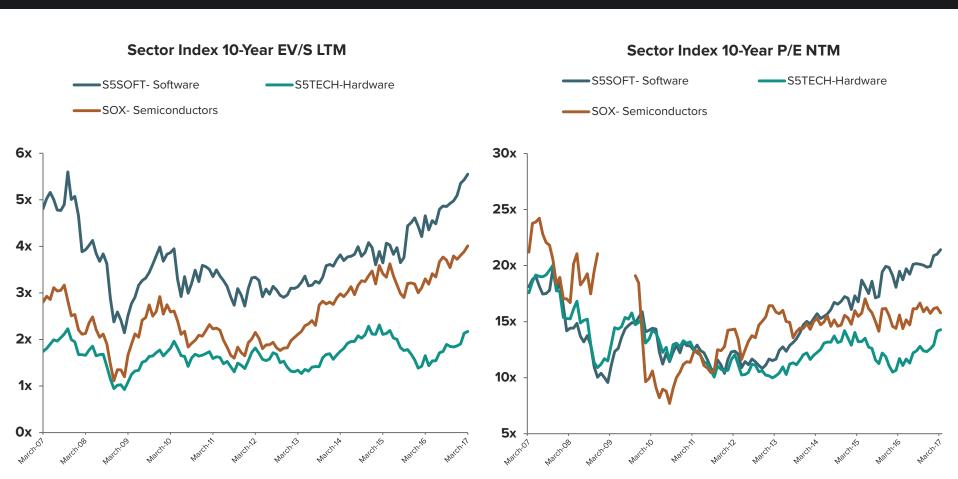
## PERFORMANCE IN TECH BY SEGMENT



# **REFLATION SECTORS PEAK: Q1 OF 2017**

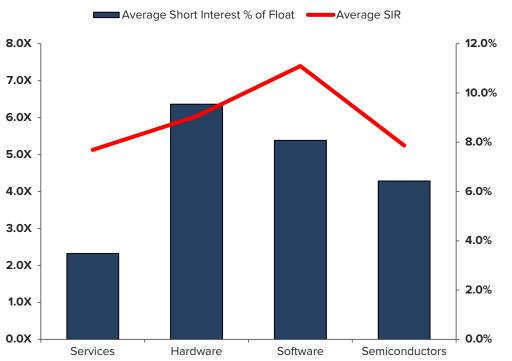
S&P 500								Q4 QTD	Estimates			
SALES GROWTH (%)	CQ1 15	CQ2 15	CQ3 15	CQ4 15	CQ1 16	CQ2 16	CQ3 16	CQ4 16*	CQ1 17	CQ2 17	CQ3 17	CQ4 17
All Securities	-2.7%	-3.4%	-3.7%	-4.0%	-1.9%	-0.3%	2.2%	4.9%	7.2%	5.3%	5.2%	5.1%
Energy	-34.0%	-31.8%	-34.4%	-34.4%	-29.3%	-24.2%	-14.9%	3.2%	34.8%	25.0%	28.6%	22.3%
Materials	-9.8%	-10.1%	-14.0%	-15.5%	-8.8%	<b>-7.3</b> %	-1.3%	4.0%	5.2%	5.1%	3.8%	3.8%
Industrials	-2.0%	-3.2%	-6.1%	-7.2%	-2.0%	-1.3%	2.1%	2.4%	2.5%	2.6%	3.2%	4.4%
Consumer Discretionary	1.8%	2.1%	3.7%	4.4%	6.3%	8.5%	7.9%	7.9%	6.6%	4.0%	3.4%	4.4%
Consumer Staples	2.5%	0.6%	0.5%	-0.4%	1.2%	0.7%	1.7%	2.8%	2.3%	3.2%	3.4%	3.8%
Health Care	10.3%	8.9%	9.5%	9.6%	9.2%	8.8%	6.9%	5.2%	5.6%	3.3%	4.0%	3.8%
Financials	2.0%	1.6%	0.1%	1.0%	-1.7%	0.7%	5.7%	5.7%	6.6%	2.2%	-0.3%	1.3%
Information Technology	6.0%	3.1%	1.1%	-5.3%	-6.8%	-3.9%	-0.7%	7.0%	7.8%	6.5%	5.3%	5.7%
Telecom	2.6%	2.4%	11.8%	12.0%	11.2%	9.6%	0.6%	-1.7%	-0.2%	0.1%	0.6%	1.0%
Utilities	-3.6%	-4.9%	-2.1%	-12.6%	-10.5%	-2.4%	3.5%	9.2%	9.8%	7.6%	4.2%	0.7%
Real Estate	4.4%	6.4%	7.5%	10.8%	11.4%	7.4%	6.7%	3.6%	2.8%	5.7%	3.7%	4.6%
Data Source: BBG								*493/500 ге <u>ј</u>	oorted			
S&P 500								Q4 QTD	Estimates			
EPS Growth (%)	CQ1 15	CQ2 15	CQ3 15	CQ4 15	CQ1 16	CQ2 16	CQ3 16	CQ4 16*	CQ1 17	CQ2 17	CQ3 17	CQ4 17
All Securities	1.5%	-1.2%	-3.8%	-6.8%	-8.0%	-3.9%	2.7%	6.4%	9.7%	9.1%	8.6%	13.0%
Energy	-56.7%	-56.5%	-57.5%	<b>-72.6</b> %	-109.6%	-81.6%	-62.5%	-9.0%	565.0%	401.3%	190.3%	151.7%
Materials	-0.4%	6.3%	-15.6%	-17.9%	-16.0%	-9.1%	5.2%	1.7%	9.6%	7.4%	7.3%	16.4%
Industrials	11.3%	-3.0%	-0.7%	-5.4%	-7.3%	-1.9%	-1.8%	-5.4%	-6.0%	0.4%	4.3%	13.5%
Consumer Discretionary	9.3%	9.0%	13.9%	9.4%	17.8%	10.3%	4.7%	4.3%	-1.5%	3.3%	7.3%	11.0%
Consumer Staples	3.6%	0.1%	-2.1%	-0.7%	1.2%	0.0%	6.1%	4.2%	2.6%	5.2%	5.2%	7.1%
Health Care	18.2%	15.1%	14.5%	11.0%	8.1%	4.8%	5.5%	4.7%	0.8%	1.8%	4.6%	8.4%
Financials	7.1%	2.7%	-8.6%	-5.3%	-14.2%	<b>-7.0</b> %	13.0%	6.6%	15.9%	9.7%	6.6%	<b>17.4</b> %
Information Technology	10.0%	6.6%	4.5%	-3.8%	<b>-7.4</b> %	<b>-2.7</b> %	4.6%	11.4%	14.8%	<b>12.2</b> %	8.1%	8.1%
Telecom	8.5%	10.2%	23.7%	27.8%	16.1%	3.5%	-1.5%	0.5%	-2.3%	5.4%	1.2%	-0.3%
Utilities	1.3%	3.0%	0.8%	-49.6%	-1.9%	8.9%	12.4%	110.5%	1.2%	-2.6%	-1.9%	12.0%
Real Estate	12.6%	11.7%	12.5%	14.5%	8.3%	7.1%	6.6%	11.4%	4.8%	4.7%	6.6%	0.9%
Data Source: BBG								*493/500 геј	oorted			

# **VALUATION METRICS**

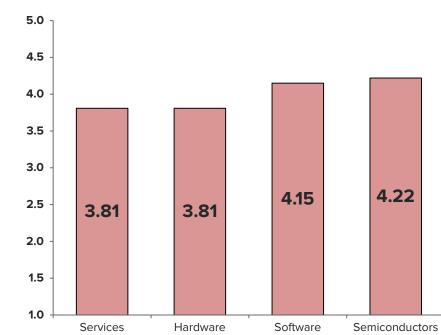


## **COVERAGE ANALYSIS**

### **Average Short Interest Ratio and Short % of Float**



# Average Analyst Rating (1- Strong Sell; 5 Strong Buy)



# **SENTIMENT ANALYSIS**

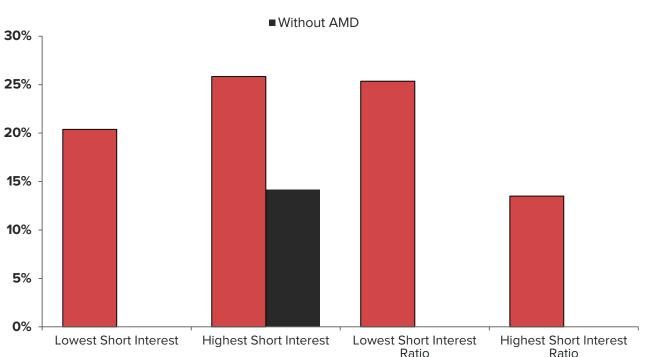
### **HIGHEST SHORT INTEREST**

### LOWEST SHORT INTEREST

	Ticker	Price	Market Cap	CY16 Return	Short % Float	Short Interest Ratio	Analyst Rating (Buy-Hold-Sell)		Ticker	Price	Market Cap	CY16 Return	Short % Float	Short Interest Ratio	Analyst Rating (Buy-Hold-Sell)
VMWARE	VMW	\$91.73	\$37,484	39.2%	33.4%	17.91X	16-18-0	MICROSOFT CORP	MSFT	\$64.98	\$502,135	15.1%	0.5%	1.91X	27-10-2
UBIQUITI NETWORK	UBNT	\$50.67	\$4,166	82.4%	32.3%	13.63X	3-5-4	FLIR SYSTEMS	FLIR	\$36.06	\$4,918	30.9%	0.6%	1.25X	4-5-0
PAYCOM SOFTWARE	PAYC	\$54.94	\$3,268	20.9%	28.0%	22.28X	10-3-0	S&P GLOBAL	SPGI	\$129.69	\$33,533	10.5%	0.7%	1.44X	12-4-0
BLACK KNIGHT FINANCIAL	BKFS	\$37.85	\$5,859	14.3%	26.6%	40.95X	9-4-0	FACEBOOK	FB	\$140.34	\$405,580	9.9%	0.8%	1.36X	43-4-2
TESLA	TSLA	\$263.16	\$42,867	-11.0%	26.2%	7.67X	8-10-6	CISCO SYSTEMS	csco	\$34.08	\$170,668	15.2%	0.8%	2.32X	21-14-1
FITBIT	FIT	\$5.40	\$1,221	-75.3%	26.2%	4.78X	4-14-3	ADOBE SYSTEMS	ADBE	\$127.70	\$63,297	9.6%	0.9%	2.20X	22-8-0
PURE STORAGE	PSTG	\$9.90	\$1,978	-27.4%	23.6%	4.66X	15-9-0	SEMTECH CORP	SMTC	\$34.35	\$2,266	66.8%	0.9%	0.85X	5-1-0
3D SYSTEMS CORP	DDD	\$14.17	\$1,603	52.9%	20.0%	9.70X	3-10-4	MARKETAXESS HOLDINGS	MKTX	\$187.70	\$7,055	32.7%	0.9%	2.29X	3-5-0
FIREEYE	FEYE	\$12.28	\$2,179	-42.6%	17.8%	6.49X	8-22-0	INTUIT INC	INTU	\$119.72	\$30,623	20.2%	1.0%	1.62X	7-10-2
VISHAY INTERTECHNOLOGY	VSH	\$16.15	\$2,359	37.0%	16.0%	17.72X	1-3-2	ALPHABET	GOOGL	\$835.14	\$569,757	1.9%	1.0%	2.54X	40-4-1
SYNAPTICS	SYNA	\$49.18	\$1,738	-33.3%	15.9%	8.55X	9-7-1	QUALCOMM	QCOM	\$56.92	\$84,073	35.1%	1.1%	1.78X	16-14-0
PROOFPOINT	PFPT	\$73.37	\$3,176	8.7%	15.4%	14.60X	21-2-1	MAXIM INTEGRATED PRODUCTS	MXIM	\$45.23	\$12,786	5.0%	1.1%	1.68X	11-12-1
DIEBOLD NIXDORF	DBD	\$29.30	\$2,210	-13.1%	14.3%	9.09X	5-2-0	DST SYSTEMS	DST	\$114.16	\$3,578	-4.9%	1.1%	2.46X	4-1-0
BLACKBAUD	BLKB	\$76.14	\$3,619	-2.1%	14.1%	28.35X	5-5-1	APPLE	AAPL	\$140.64	\$737,873	12.5%	1.1%	2.40X	39-10-1
TERADATA CORP	TDC	\$30.30	\$3,965	2.8%	13.9%	11.24X	1-12-6	CACI INTERNATIONAL	CACI	\$121.00	\$2,952	34.0%	1.1%	3.46X	7-7-0
ADVANCED MICRO DEVICES	AMD	\$13.70	\$12,897	295.1%	13.7%	1.41X	10-13-3	PLANTRONICS	PLT	\$52.99	\$1,758	17.0%	1.2%	2.82X	3-3-0

## **2016 RETURN ANALYSIS- BUYSIDE**



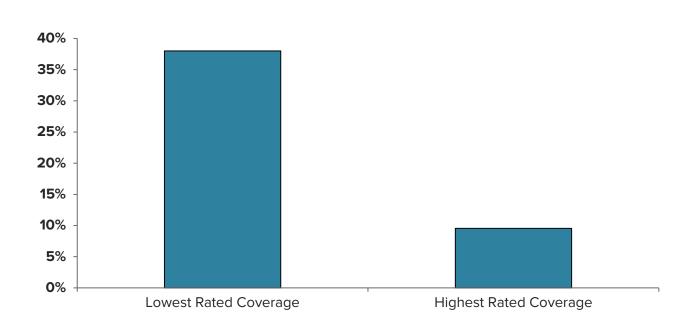


If a tech PM had shorted the 30 highest short interest stocks and longed the 30 lowest short interest stocks, a 10% alpha return would have been netted in 2016

Gap between the short interest ratio of the lowest and highest returning stocks was "2x at the start of 2016

# **2016 RETURN ANALYSIS- SELLSIDE**

## **Total Return by Coverage Sentiment**



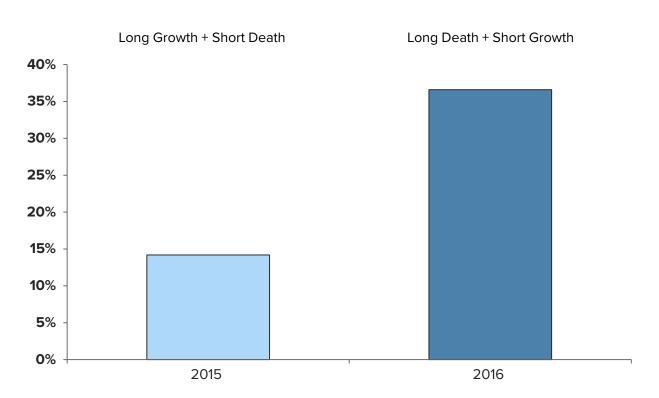
The best returning stocks had the lowest rated coverages

If the tech PM had gone long the basket of lowest sellside rating and shorted the highest rated sellside stocks, a 30% alpha return would have been netted

## TRACKING A PIVOT

#### **RETURNS FROM TWO BASKETS**

As 2017 unfolds, the growth group is looking like an M&A target list



The growth basket, collected at random, included CRM, N, WDAY, SPLK, DATA, PANW, and NOW.

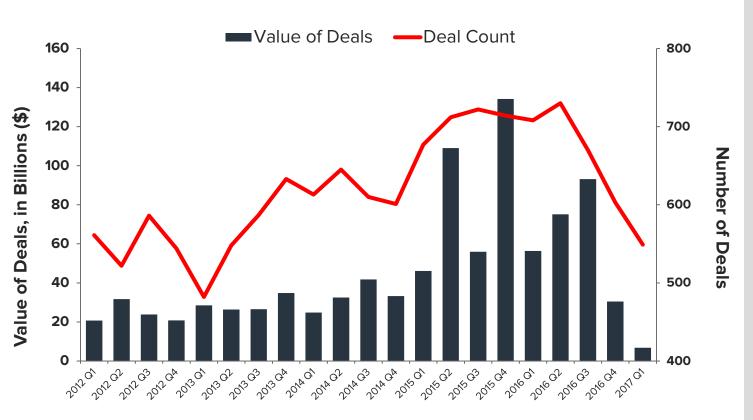
The death basket included EMC, ORCL, SAP, IBM, HP, CSCO, and MSFT.

In 2015, the growth basket put up an average +10% equity growth and the death basket fell -4%.

In 2016 that performance reversed hard, the death group rallied +17% and the growth bucket fell -19%.

## **M&A IN TECH**

## SOME GOOD DEALS, SOME OBFUSCATE PROBLEMS



#### **Recent M&A Includes:**

Avago-Broadcom merger, then subsequent acquisition of Brocade

Qualcomm acquiring NXP

Oracle acquiring Netsuite

Microsoft acquiring LinkedIn

Softbank acquiring ARM

Analog acquiring Linear

# **CATALYSTS FOR TECH INVESTING**

#### WHAT WILL DRIVE PERFORMANCE

2017	Next 5 Years
• Launch of iPhone 8	<ul> <li>Heavy Consolidation Phase in Software</li> </ul>
<ul> <li>Software M&amp;A Heats Up</li> </ul>	
Tougher PC Comparisons	<ul> <li>Semiconductors Have a Relatively Tight Supply Period (with Bumps)</li> </ul>
Changes in Data Center Spending	
Optical Networking Cycle	<ul> <li>Beginning of Apparent Cliffs in Legacy Data Center Technologies</li> </ul>

# **LONG & SHORT LIST**

#### **TECHNOLOGY:**

	NVESTMENT IDEAS - LONGS	INVESTMENT IDEAS - SHORTS						
MU	Micron Technology, Inc.	SABR	Sabre Corporation					
GLW	Corning Incorporated	AVGO	Broadcom Ltd					
		INTC	Intel Corporation					
		MSCC	Microsemi Corporation					
	LONG BENCH		SHORT BENCH					
		AKAM	Akamai Technologies					

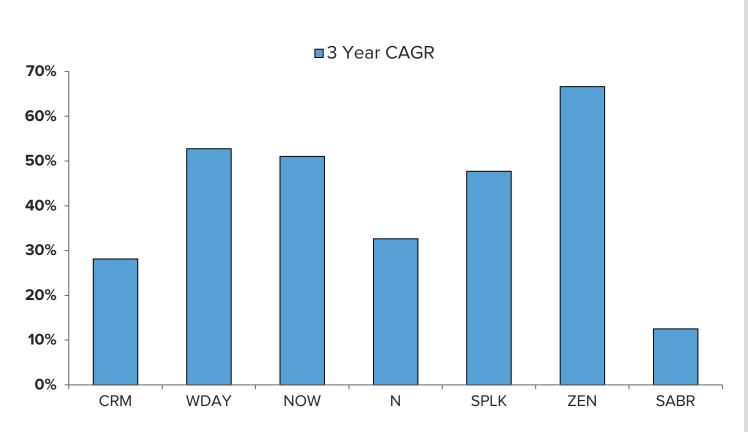
# SABRE CORP (NASD: SABR)

## **RED FLAGS**

- Travel Network (70% of revenue) does not grow in-line with airline capacity, not as advertised
- No AHS (30% of revenue) upsell opportunity, not as advertised
- Organic growth rates for AHS below advertised rates
- We challenge other management mantras: not a peaceful oligopoly, AHS is not cloud SaaS, and they overstate recurring revenue to bond audiences
- Finally, we show that adjusted EBITDA is not a proxy for cash flow for SABR

## **CLOUD SAAS AND "CLOUD SAAS"**

### **SAYING SAAS AND BEING SAAS**

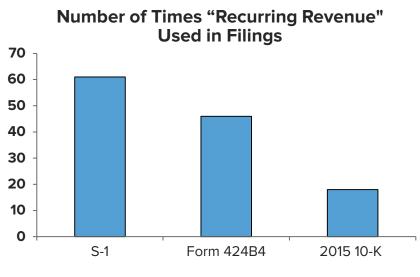


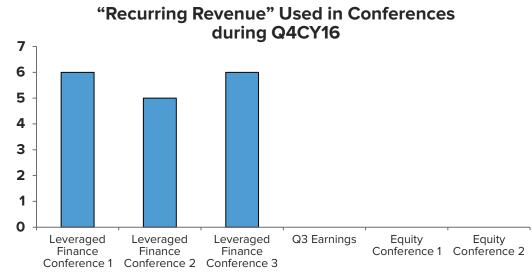
Since we associate the term with breakthrough software- using new approaches, disrupting old markets, and driving rapid growth- there are many would be usurpers to the term

## **HAVE THEY DONE THIS BEFORE**

Although for the year ended December 31, 2013, 94% and 84% of our Travel Network and Airline and Hospitality Solutions revenue, respectively, was Recurring Revenue in that it is largely tied to travel suppliers' transaction volumes rather than to their unit pricing for an airplane ticket, hotel room or other travel product (see "Method of Calculation"), this revenue is generally not contractually committed to recur annually under our agreements with our travel suppliers. (Source: Filings, emphasis added)

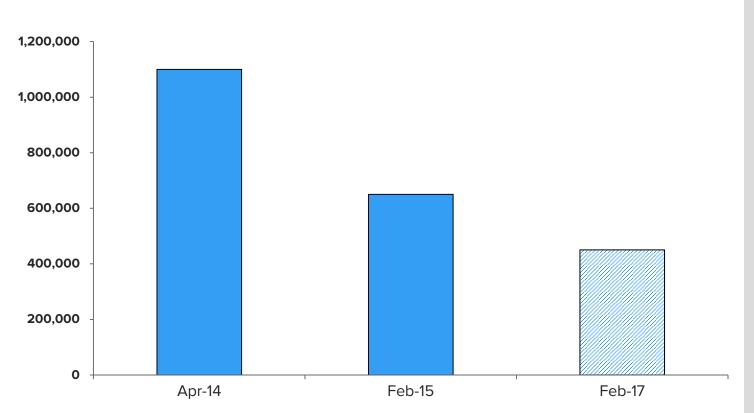
"This revenue is generally not contractually committed to recur annually under our agreements with our travel suppliers." —Risk **Factors 10-K 2015** 





## **EXISTING WINS SHRINK TAM**

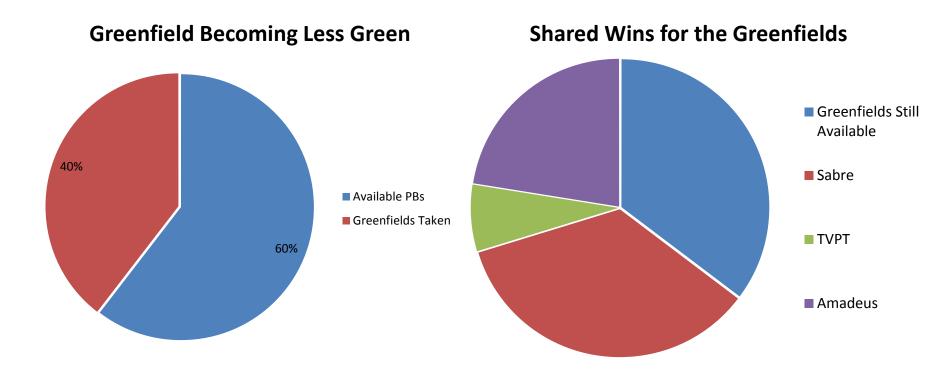
### 650M PB MAY BE A STALE NUMBER



If SABR wins ~40% of the remaining TAM it could imply ~180m new PB wins over a ~3 year timeframe, which would be a 7% CAGR

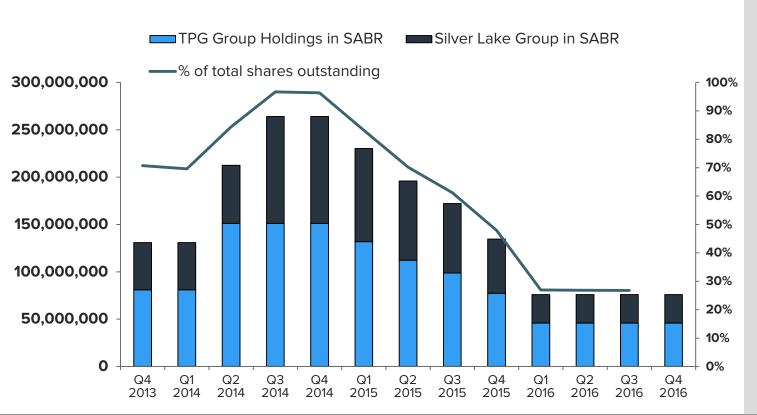
## 650M PB MAY BE A STALE TARGET

#### **OUR ESTIMATE IS THAT 20-40% OF THE 650M ARE WON**



## WHO DO YOU WORK FOR

#### STORIES HELP OWNERS SELL SHARES



Selective use of the term recurring, conflation of the cloud SAAS term, tales of excess growth rates versus reality, have all helped P/E owners exit at a good price

## **NOT A LOT OF WIGGLE ROOM**

## \$3.4B DEBT, \$270M CASH

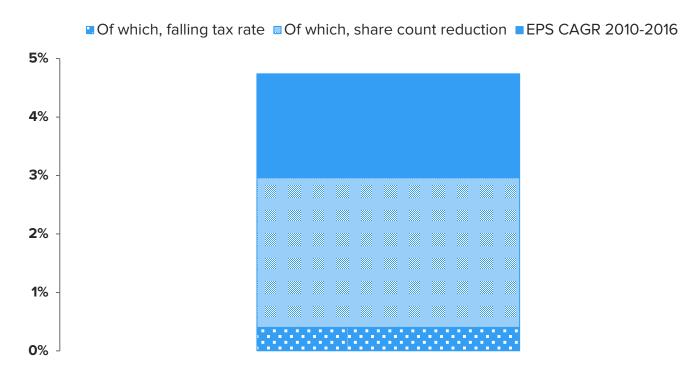


If OCF 1-timers are done, FCF grows in-line with revenue, and management had to increase net debt by "\$120m to fund a \$46m dividend increase on a "\$360m FCF year, so how much wiggle room is there?

# INTEL CORPORATION (NASD: INTC)

# **BUYBACK NOT TAILWIND ANYMORE**

# 4.7% TRAILING EPS CAGR 2010-2016 WAS HELPED IN BIG WAY THROUGH BUYBACK

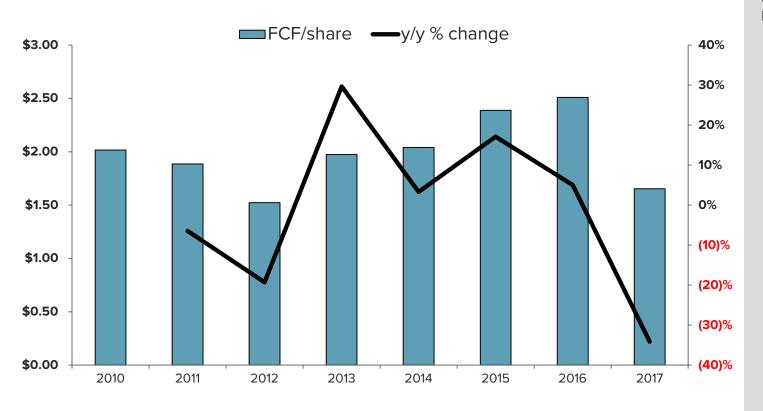


Share count reduction contributed 2.6% of the last 5 years EPS growth CAGR. OP +0.6%, Tax -5% CAGRS in that time.

Source: Company Filings © Hedgeye Risk Management LLC. All Rights Reserved.

# **NOT THAT CHEAP**

## **7% LTM FCF YIELD, 4.5% FORWARD**

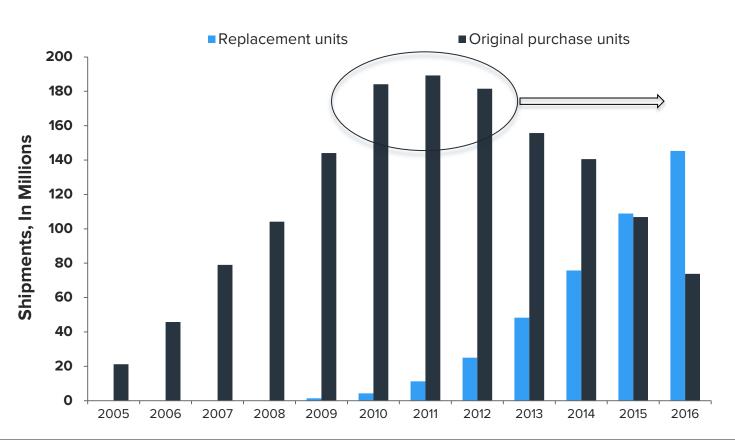


Using recurring OCF margins plus a \$2.5b capex headwind implies lower FCF in 2017

# **CORNING INCORPORATED (NYSE: GLW)**

## **IMPORTANT ANNIVERSARY**

#### LARGE BUYING YEARS SHIFT INTO REPLACEMENT PERIOD

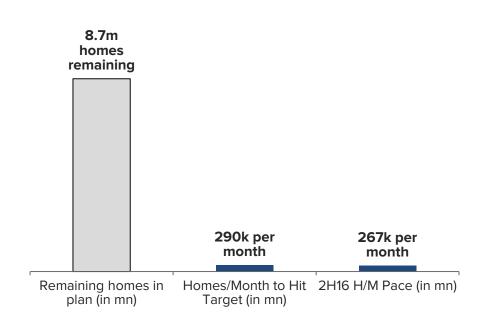


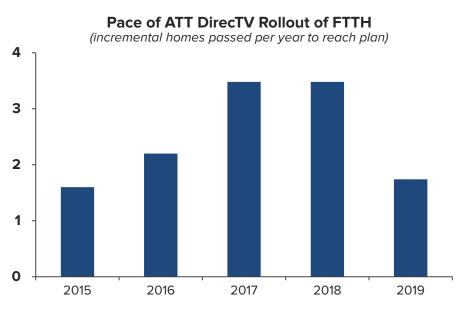
We are coming up on the replacement anniversary of the largest incremental buying years during the LCD TV penetration boom

To us this implies there is latent replacement cycle potential

All we need now is a catalyst!

## SO HOW DOES AT&T ROLLOUT LOOK FROM HERE?





#### MATH FOR PROJECT COMPLETION

**ASSUMING EVEN PACE** 

"By mid-2019 we plan to reach at least 12.5 million locations across 67 metro areas with our 100% fiber network." (March '17)

# 5% YIELD FOR M-S-D GROWER GETS OVER \$38-48

#### AND WE ARE IN THE ZONE ON BOTTOM-UP MODELING AS WELL

