

Accounting Earnings Loopholes Add Risk to Stocks? Learn how to get true earnings.

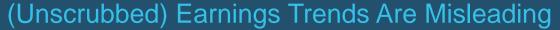
Important Disclosure Information is contained on the last page of this report. The recipient of this report is directed to read these disclosures.

david.trainer@newconstructs.com 615-377-0443



- 1. Reported/accounting vs Economic earnings
- 2. What's the difference?
- 3. Why does the difference matter?
- 4. How do you protect yourself?
- 5. Why do you need protection now more than ever?

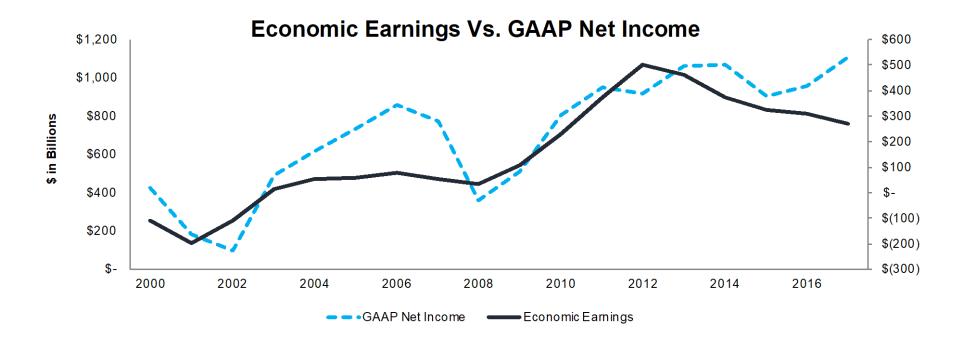
ECONOMICS DO NOT ALWAYS FOLLOW ACCOUNTING





"Look at the financial footnotes in 10-K filings and the gains then disappear" "Only 1 sector has experienced real earnings gains in the past 12 months"

- MarketWatch.com <u>5/4/17</u> & <u>2/28/18</u>



^{*}This graph was created based on information collected and analyzed by New Constructs, LLC. New Constructs regularly gathers information from over 3,000 companies' 10Ks, including the Notes to the Financial Statements and MD&A.

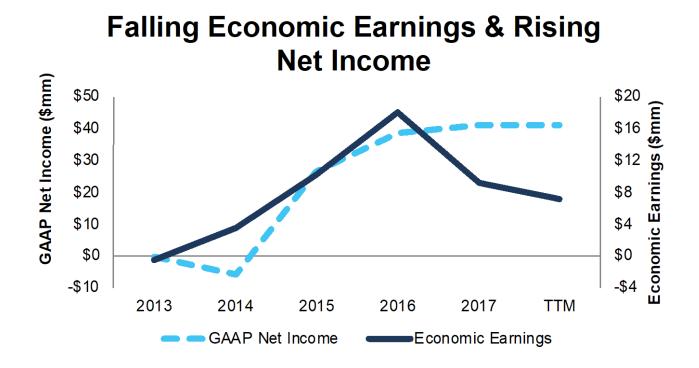
SEE THE DIFFERENCE: PROTECT YOUR PORTFOLIO





Installed Building Products (IBP)

Economic Earnings per share -18% CAGR from 2015-2017 while GAAP EPS +24%



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SEE THE DIFFERENCE: BOOST YOUR PORTFOLIO





NVIDIA (NVDA)

From 2011-2015, EE per share grew at a CAGR of 48% vs. 27% for GAAP EPS

NVDA GAAP vs. Economic Earnings Growth



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Part II What's the difference?

WHY DILIGENCE IS NEEDED



Core Problem: GAAP is exploitable.

Only Solution: Read the Footnotes and MD&A.

Traditional P&L	Economic P&L				
Revenues	Revenues				
 operating expenses 	 operating expenses 				
	- Hidden Incomes/Charges				
=pretax earnings	=pretax earnings				
- taxes	- taxes				
=Reported Profit	=Profit				
	 capital charge/hidden liabilities and assets 				
	= Economic Profit				

WHAT IS DILIGENCE?



Scouring the Footnotes and MD&A of 10-Ks

- Hidden Expenses/Income
- Unrecorded Goodwill
- Impairments
- Unconsolidated Subsidiaries
- Minority Interests
- Unrealized Gains/Losses
- Changes in Accounting Rules
- Derivatives Exposure
- Customer Concentration
- FASB 159

- Employee Stock Options
- Option Valuation Assumptions
- Operating Leases
- Loan Loss/LIFO Reserves
- Pension Assumptions
- Excess Cash
- Pension Over/Under Funding
- Auditor's Opinions
- Carrying Value vs Fair Value
- Mid-year acquisitions

GETTING TO THE ECONOMICS

Measuring Key Results



- Invested Capital all cash invested in the business
- WACC rent management must pay for use of capital

Return on Invested Capital = NOPAT/Invested Capital

<u>Economic Profit</u> = (ROIC – WACC) * Invested Capital

<u>Free Cash Flow</u> = NOPAT – change in Invested Capital

Economic Profit Margin = ROIC - WACC



Part III Why do economic earnings matter?

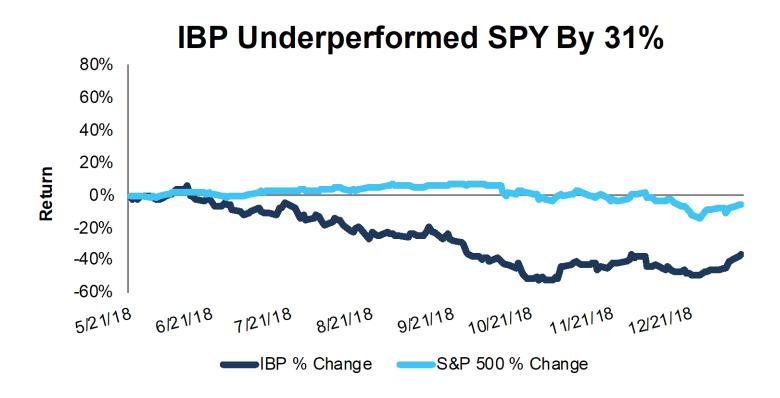
ECONOMICS DRIVE PERFORMANCE



Warned on <u>5/21/2018</u>: Installed Building Products (IBP)

"Roll-Up Scheme Destroying Shareholder Value"

- 1. "High-Low Fallacy" allows acquisitions to grow GAAP EPS while destroying value
- 2. Down 36% while SPY was down ~5%, still Unattractive rated open position



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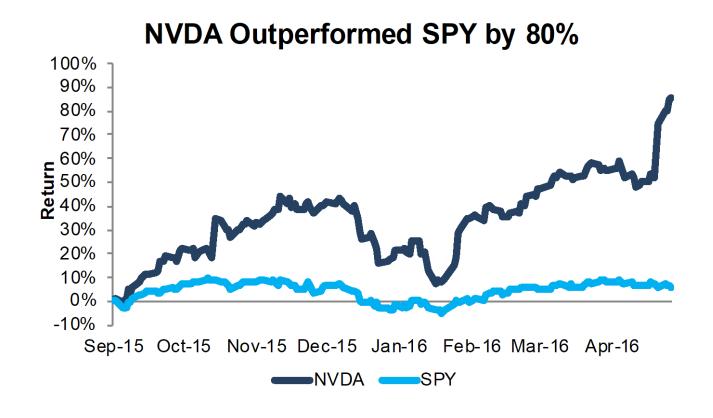
ECONOMICS DRIVE PERFORMANCE





Accounting Results Missed the Bigger Picture

- 1. 2015 GAAP earnings understated by \$60 million write-down (9% of GAAP results)
- 2. Up 86% while SPY +6% while rated "Attractive"
- 3. Up 41% vs SPY +6% when we closed official position on 12/10/15



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EARLY INDICATOR FOR BANKRUPTCY

Report on Eastman Kodak (EKDKQ.PK) on 3/21/2011



2010 10-K Revealed Abnormal Pension Assumptions

- 2.2% of revs from pension, abnormally high return on plan asset assumption 8.7%
- Underfunded by \$2.6B or 3x the market cap at the time
- Valuation implied 10% CAGR in NOPAT for 11 years
- Down 90% while S&P 500 was down ~3%, no longer under coverage



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RECENT LONG IDEA

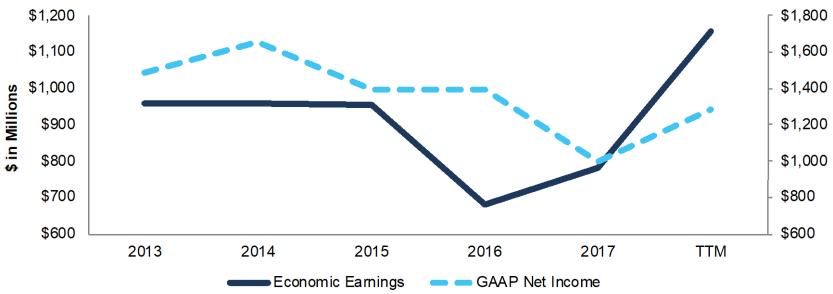
Cummins Inc. (CMI) on <u>11/14/18</u>



Accounting Earnings Understate Growth

- 1. Accounting EPS down 21% TTM, Economic Earnings per share up 57%
- 2. EPS decreased by \$782 million tax charge, \$368 million in other non-operating costs
- 3. Executive Compensation plan shifts to reward ROIC in 2019
- 4. Valuation implies permanent 10% profit decline
- 5. Both CMI and SPY down 4% since our article

CMI GAAP vs. Economic Earnings



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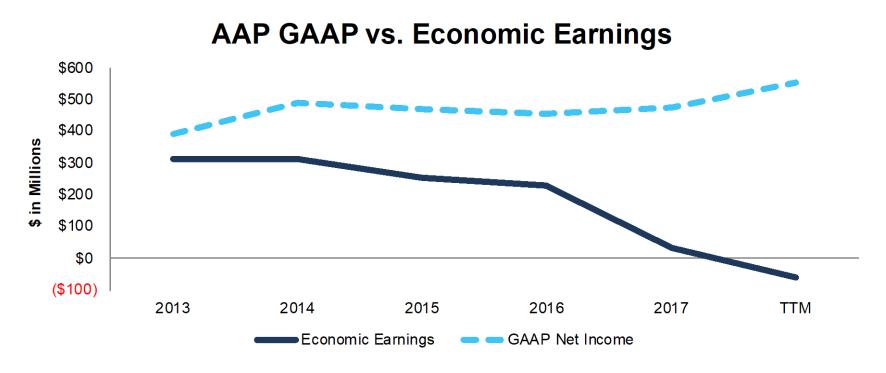
RECENT DANGER ZONE WARNING

Advance Auto Parts (AAP) on 12/17/2018



Misleading Earnings Lead to Overvaluation

- 1. GAAP EPS up 58% TTM while Economic Earnings turned negative
- 2. \$144 million tax gain & \$45 million decrease in reserves account for 34% of net income
- 3. Misleading earnings helped drive stock up 56% in 2018, 3rd best S&P 500 performer
- 4. Valuation implies 12% NOPAT CAGR for nine years
- 5. Up 4% while SPY up 2% since our report



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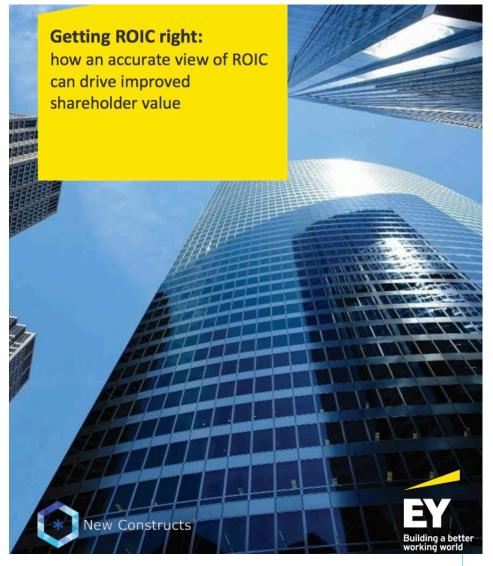
ERNST & YOUNG SHOWS OUR RIGOR MATTERS

White Paper: Investors Deserve Better Data



- It's not often that a big 4
 accounting firm like E&Y features
 the material superiority of a
 research firm's analytics.
- The white paper provides specific examples for specific companies.
- Google "Revenue 48,778", "long-term debt 16,215" to see which company is "Peer 1".

Click <u>here</u> for a copy.



POWERFUL RESEARCH AUTOMATION HAS ARRIVED

Technology Provides Only Solution Big Data



Harvard Business School Case Study features our Research Automation technology. "Disrupting Fundamental Analysis with Robo-Analysts"

Click <u>here</u> for a copy.





CHARLES C.Y. WANG

New Constructs: Disrupting Fundamental Analysis with Robo-Analysts

CEO David Trainer and COO Lee Moneta-Koehler of New Constructs had just met with a potential client. Their pitch was simple: New Constructs "leverages the only parsing technology capable of reviewing every detail of every 10-K and 10-Q" to deliver quality fundamental analysis at scale. After the presentation, the client responded, "You know, you might be right. Your data probably is better. But, as long as everybody's using the same bad data, I'm OK with that." This was a familiar response to Trainer and Moneta-Koehler: they were frustrated by investors who did not see the value of New Constructs' data or technology. They were concerned about the role of quality fundamental analysis in a market increasingly focused on more technical and other short-term trading strategies.

New Constructs

Trainer began working on Wall Street at Credit Suisse First Boston (CSFB) as a stock analyst in 1996, where he honed his skills in financial modeling and fundamental analysis. At CSFB, he spearheaded an effort to develop a consistent framework for measuring, comparing, and analyzing the economic earnings and profitability across all firms and industries globally. After reading through thousands of corporate filings, he realized that "the complexities of what's going on in modern day business are so much greater than what the current accounting standards can capture in the income statement and balance sheet." To construct a more accurate economic picture of the firm and to facilitate more meaningful comparisons of performance, his financial models incorporated quantitative details hidden in footnotes and the management's discussion and analysis (MD&A) section, such as operating lease obligations or components of income or expenses that are transitory in nature.

Although these adjustments were often meaningful to his overall assessment of a firm's operating performance and valuation, integrating these details into financial models was not the norm among many sell-side analysts. Trainer believed this was due to a few reasons. For one, the increasing length and complexity of corporate filings and the differences in the application of accounting rules across firms for similar transactions made the execution of such detailed financial models impractical. Even for Trainer, this mode of analysis was difficult to scale.

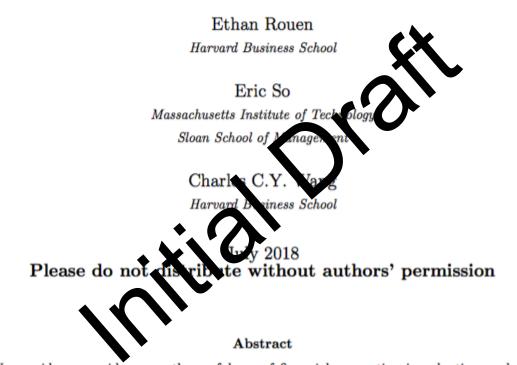
Professor Charles C.Y. Wang and Research Associate Kyle Thomas prepared this case. It was reviewed and approved before publication by a company designate. Funding for the development of this case was provided by I Harvard Business School and not by the company. IHEs case are developed soldy as the basis for class discussion. Cases are not intended to serve as enforcements, sources of primary data, or illustrations of

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THE TECHNOLOGY WORKS = DILIGENCE WITH SCALE 3rd-Party Validation By Harvard Business School & MIT Sloan



The Relation between Earnings and Future Cash Flows: A New Perspective*



We provide new evidence on the usefulness of financial accounting in valuation analysis. A fundamental assumption in the use of GAAP financial statements for valuation is that accrual-based measures of firms' performance convey information about future cash flows incremental to current cash flows. However, recent evidence casts doubt on this assumption. We revisit this issue using a novel dataset that details all quantitative disclosures in firms' annual reports and identifies non-core revenues and expenses from net income, including those reported on the income statement and those hidden in the footnotes or the MD&A. Using these data to adjust GAAP net income, we show the resulting measure of core earnings offers forecasting power for future cash flows and earnings that are incremental to traditional measures of performance. These adjustments also better explain contemporaneous market prices and returns. Together, our results suggest that accounting information remains relevant for valuation and highlight the importance of careful accounting analysis for distilling information relevant for forecasting future performance.

COMPUSTAT & STREET EARNINGS ARE MISLEADING



Quotes from the initial draft of the paper:

- "this paper serves as a warning for researchers seeking to examine the value relevance of earnings."
- "Data aggregators like Compustat do not appear to collect and provide data on many non-operating or less persistent incomerelated items, even when managers make these adjustments in non-GAAP disclosures."
- "We find that, in many instances, Compustat does not report these disclosures— which can appear on the income statement as a separate line item or in the footnotes or the MD&A—in any of its fields."
- "These shortcomings make it difficult for users to construct a complete picture of a firm's earnings, but taking additional steps to adjust to GAAP net income can provide valuable insights."



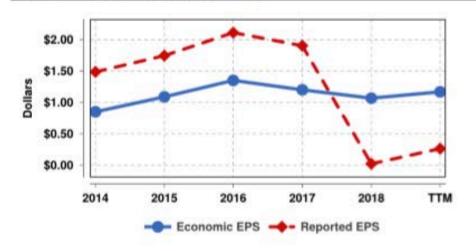
Part IV How do you protect yourself?

GET RESEARCH ON ECONOMIC EARNINGS

Compare reported vs economic results



Accounting vs Economic Earnings

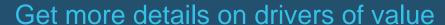


Accounting Adjustments Summary

- CSCO's accounting earnings understate its economic earnings, which equal (ROIC - WACC) * Average Invested Capital.
- For CSCO, we made a total of \$100,886 million in income statement and balance sheet adjustments to convert accounting earnings to economic earnings in FY18.
- We made \$74,768 million in adjustments in our DCF valuation of the stock.
- We make, in general, 10 types of income statement adjustments to derive NOPAT, 12 types of balance sheet adjustments to derive Average Invested Capital, & 10 types of valuation adjustments in our reverse DCF valuation models.

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SEE HOW ECONOMIC EARNINGS AFFECT VALUATION

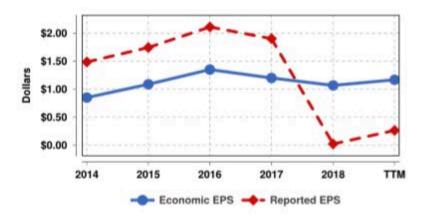




Investment Rating Details

Risk/Reward Rating	Quality o	f Earnings	Valuation				
	Economic vs Reported EPS	Return on Invested Capital (ROIC)	FCF Yield	Price-to-EBV Ratio	Growth Appreciation Period (yrs)		
5 - Very Unattractive	Misleading Trend	Bottom Quintile	<-5%	> 3.5 or -1 < 0	> 50		
4 - Unattractive	False Positive	4th Quintile	-5%<-1%	2.4 < 3.5 or < -1	20 < 50		
3 - Neutral	Neutral EE	3rd Quintile	-1%<3%	1.6 < 2.4	10 < 20		
2 - Attractive	Positive EE	2nd Quintile	3%<10%	1.1 < 1.6	3 < 10		
1 - Very Attractive	Rising EE	Top Quintile	>10%	0 < 1.1	0 < 3		

Accounting vs Economic Earnings



Accounting Adjustments Summary

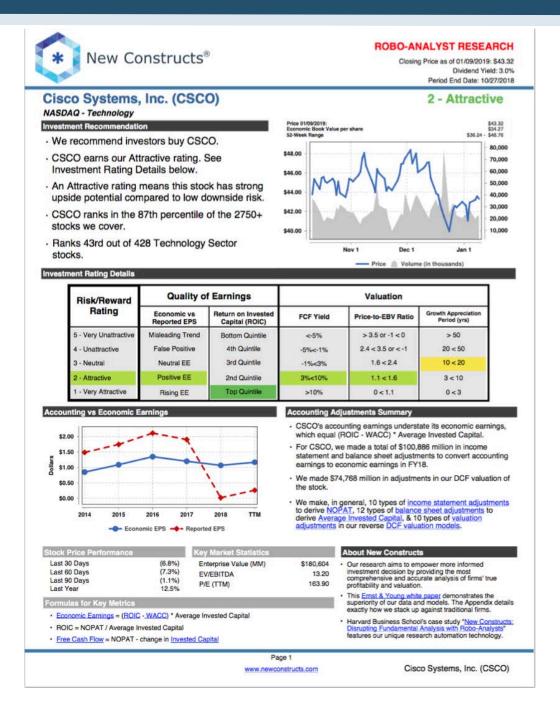
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MORE RIGOR FOR SMARTER DECISIONS

You deserve the best fundamental research



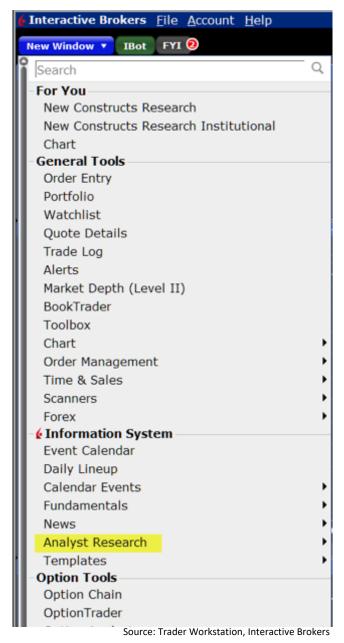


GET OUR RESEARCH ON IBKR

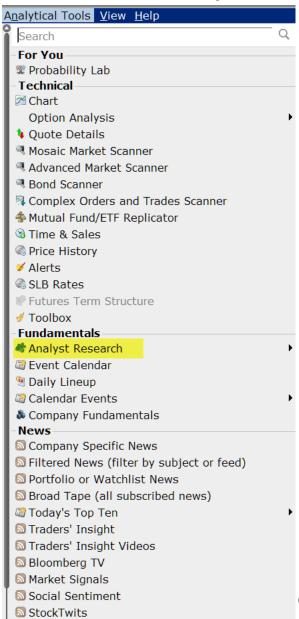
Find us on either platform



Mosaic



Classic Analyst



Source: Trader Workstation, Interactive Brokers

Confidential - New Constructs, LLC

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MEIGX: Upgrade: Fundamental Value Research & Predictive Rating	01/10/19 🗷
MITGX: Upgrade: Fundamental Value Research & Predictive Rating	01/10/19
MRLSX: Downgrade: Fundamental Value Research & Predictive Rating	01/10/19
MVCAX: Downgrade: Fundamental Value Research & Predictive Rating	01/10/19
NSCCX: Upgrade: Fundamental Value Research & Predictive Rating	01/10/19
PEIJX: Upgrade: Fundamental Value Research & Predictive Rating	01/10/19
PMVAX: Fundamental Value Research & Predictive Rating	01/10/19
PWDIX: Downgrade: Fundamental Value Research & Predictive Rating	01/10/19
RICAX: Upgrade: Fundamental Value Research & Predictive Rating	01/10/19
RTDAX: Fundamental Value Research & Predictive Rating	01/10/19
RYAWX: Fundamental Value Research & Predictive Rating	01/10/19
SCURX: Upgrade: Fundamental Value Research & Predictive Rating	01/10/19
SLCGX: Downgrade: Fundamental Value Research & Predictive Rating	01/10/19
SSUAX: Downgrade: Fundamental Value Research & Predictive Rating	01/10/19
TILGX: Downgrade: Fundamental Value Research & Predictive Rating	01/10/19
TWHIX: Fundamental Value Research & Predictive Rating	01/10/19
WEQCX: Downgrade: Fundamental Value Research & Predictive Rating	01/10/19
VFAIX: Upgrade: Fundamental Value Research & Predictive Rating	01/10/19
WPVLX: Downgrade: Fundamental Value Research & Predictive Rating	01/10/19
CSCO: Forensic Stock Earnings & Valuation	01/10/19
WTLVX: Upgrade: Fundamental Value Research & Predictive Rating	01/09/19
Load more messages Source: Trader Workstation, Inte	ractive Brokers

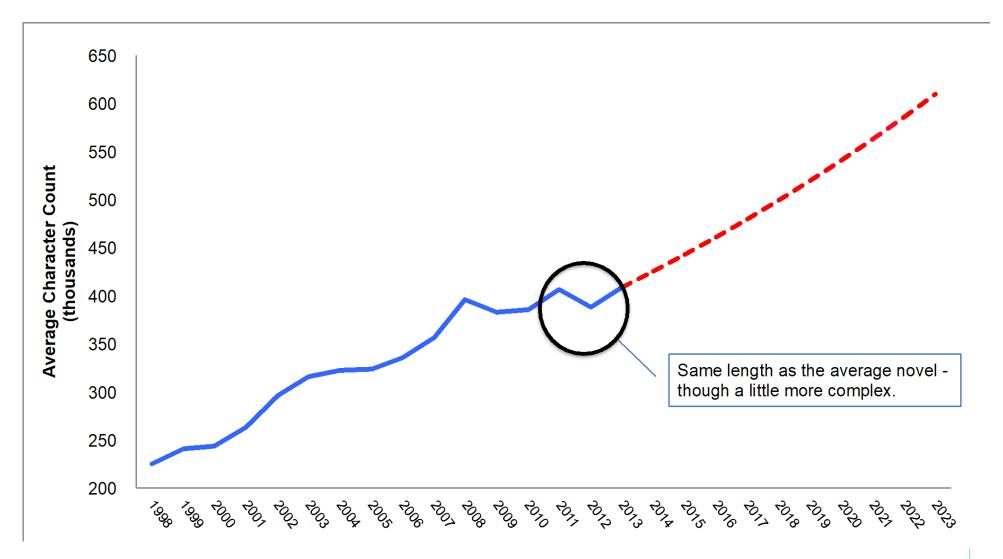


Part V Why you need protection now more than ever.

FILINGS GETTING LONGER & LONGER



Keeping Up With Disclosures Is Nearly Impossible



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DISCLOSURE TRENDS ARE NOT YOUR FRIEND





- Filings have grown to **200+ pages** (That's longer than the average novel.)
- Increasingly complex and time-consuming work
- Accounting rules are constantly changing

















28

RISE ABOVE RECORD LEVELS OF NOISE

Superior Research Gives You an Edge





TECHNLOGY TO CLOSE THE RESEARCH GAP



Machine are better than humans at some things

WHO HAS TIME TO READ 200+ PAGE FILINGS?



MACHINE LEARNING FROM EXPERTS



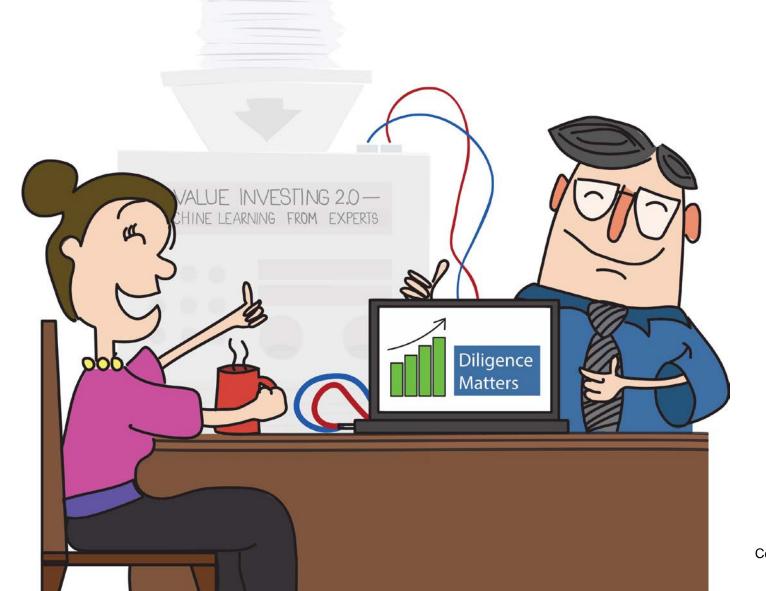
Human-Validated Parsing Instructions from 140,000+ Filings



GET THE DILIGENCE YOU DESERVE



LEVERAGE THE LATEST TECHNOLOGY AND GET AN EDGE WITH OUR RESEARCH ON STOCKS, ETFS AND MUTUAL FUNDS



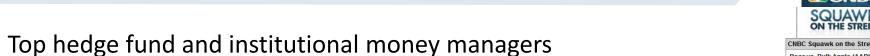


Appendix

SUCCESS WITH ELITE INSTITUTIONAL CLIENTS

Self-Directed Clients Are Natural Fit for Simpler Products





- Top wealth management firms
- Top advisors
- Top accounting, insurance & consulting firms











Berkshire Hathaway Specialty Insurance™



















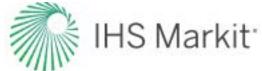






















HOW THE WEALTH INDUSTRY WORKS WITH US

Multiple models, Great Flexibility



• Institutions: full access to models and tool, including database feeds. Directly access thru our website

ADVISORS

REUTERS

Advisors/RIAs: firm or group-wide access to unlimited research. Direct access via our website or thru partners.

• **Retail**: individual sign up for Gold, Platinum or Pro subscriptions. Direct access via our website or thru partners.

Ameritrade

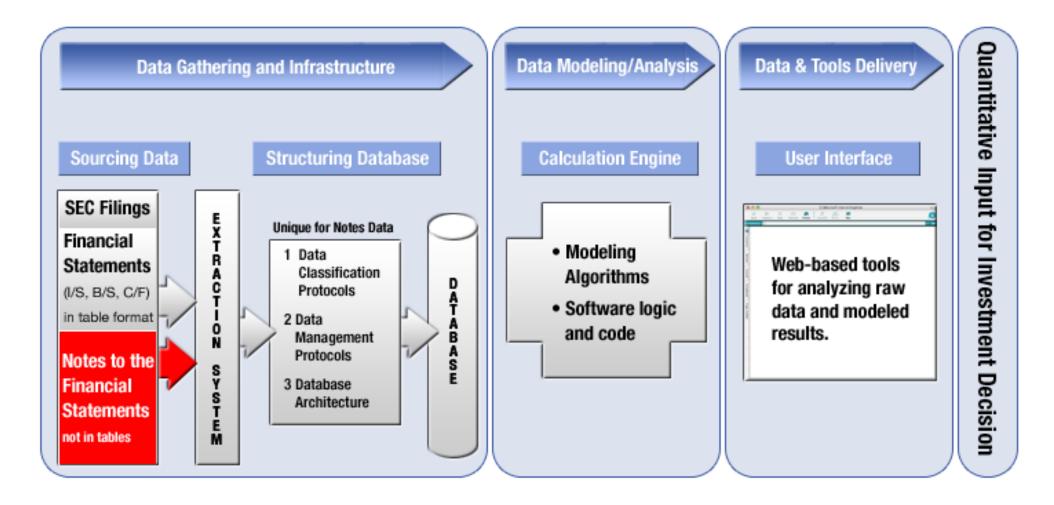
 Consultants/Corporates: custom engagements focused on enterprise value optimization and investor relations strategy. Direct access via our website along with custom work and consultation via partners.



RESEARCH TECHNOLOGY PLATFORM



Data Collection & Modeling Under One Roof



We created our own data collection technology to provide high integrity models to clients. Traditional data feeds are not trustworthy for sophisticated financial modeling.

VERSUS OTHER RESEARCH OFFERINGS



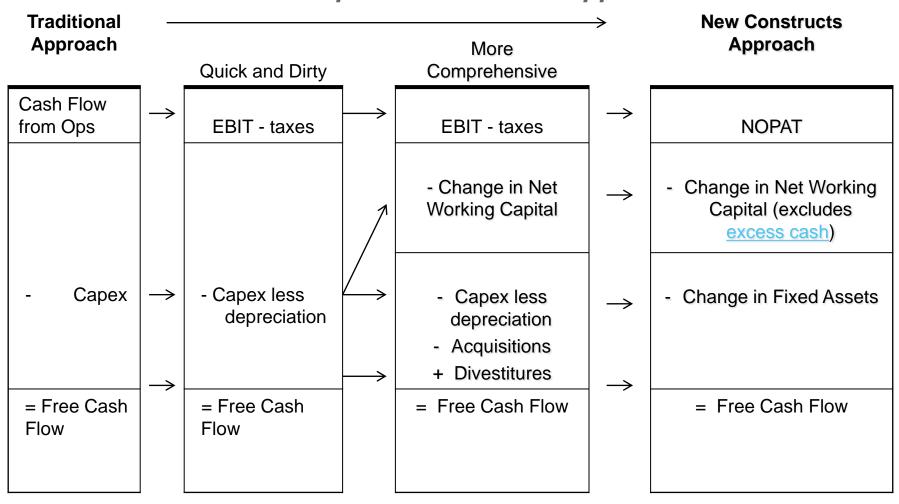
	Coverage		Cash Flow Focus (Non-GAAP)		Consistent Due Dilligence		Transparency/Links To		Independence		
	Stocks	ETFs	Mutual Funds	ROIC & Economic Earnings	Reverse DCF	Footnotes	MD&A	Calculatio ns	SEC Filings/ Source Data	Not Paid By Funds or Companies Covered	No Banking or Trading Revenues
New Constructs	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Credit-Suisse HOLT	$\sqrt{}$			$\sqrt{}$	$\sqrt{}$			1/2			
EVA Dimensions/ISS	$\sqrt{}$			$\sqrt{}$						$\sqrt{}$	$\sqrt{}$
MorningStar	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	black box							$\sqrt{}$
CFRA/S&P	limited			limited						\checkmark	$\sqrt{}$
S&P Capital IQ	$\sqrt{}$										$\sqrt{}$
Zack's	$\sqrt{}$										$\sqrt{}$
Other Sell-Side	$\sqrt{}$										
Valuentum.com	$\sqrt{}$	$\sqrt{}$						limited		$\sqrt{}$	$\sqrt{}$
Finbox.io	$\sqrt{}$							limited		$\sqrt{}$	$\sqrt{}$
GuruFocus	$\sqrt{}$			$\sqrt{}$						$\sqrt{}$	$\sqrt{}$
Other Firms	$\sqrt{}$?	?

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CALCULATIONS: ATTENTION TO DETAILS

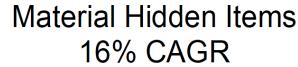


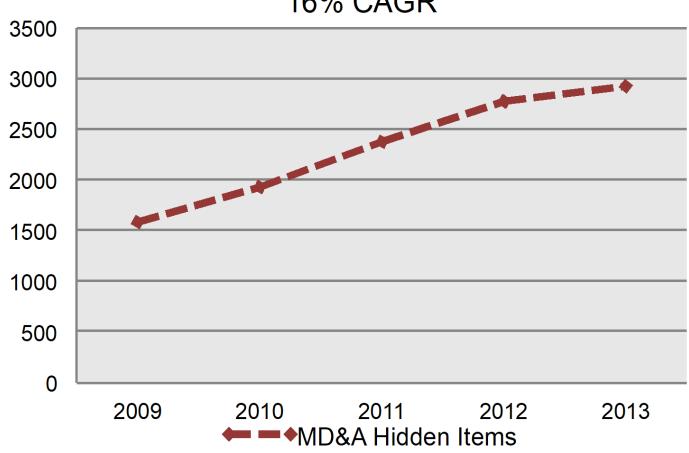
Free Cash Flow: NOPAT minus Change in Invested Capital How We Compare to traditional approaches to FCF



BIGGER HAYSTACKS, MORE NEEDLES







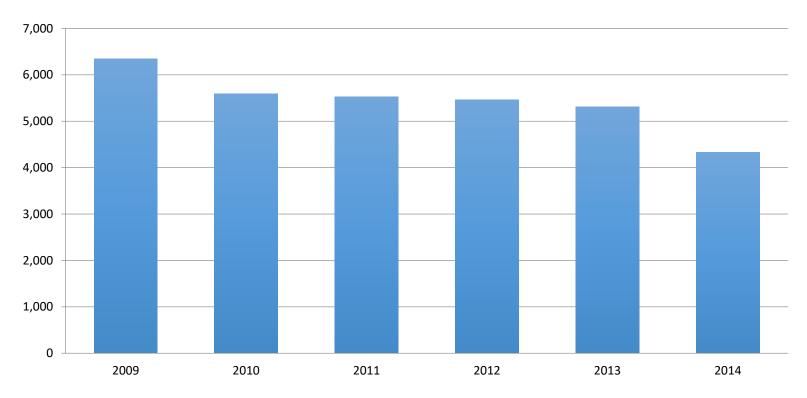
Items found only in the MD&A (e.g. gains, charges, deferred items, etc) that distort income statement results are rising rapidly.



32,583

Over the last 5+ Years, we found 32,583 write-downs.

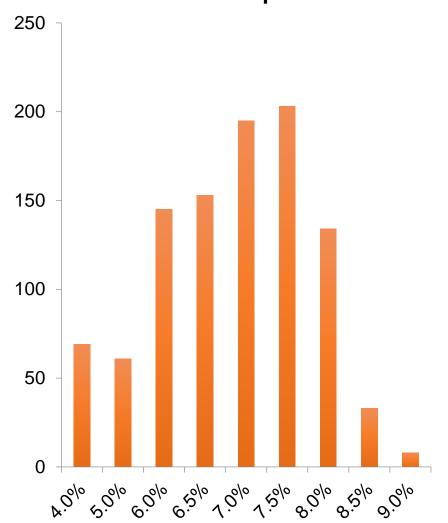




MANAGEMENT'S INFLUENCE ON PROFITS



Distribution of Return On Plan Asset Assumptions



Auditors & investors need to know this data.

- Raising the expected Return on Plan Assets (EROPA) reduces reported pension expense.
- The mean EROPA for 2014 was 6.5%. Roughly 55% of companies expect a long-term return on plan assets between 6.5% and 7.5%.
- Virtusa Corp (VRTU) has the most aggressive assumptions, with EROPA of 10.38%, followed by Exlservice Holdings (EXLS) at 9%.

100% UNCONFLICTED



New Constructs has no trading, corporate or banking ties – no conflicts.

 Morningstar gets paid by fund companies. Fund companies must license ratings from Morningstar to use them in marketing materials.

New Constructs = unadulterated expertise in accounting, finance and SEC filings.

HOW HAS INVESTING CHANGED OVER THE YEARS?



Shorter Holding Periods for Stocks

- Until mid-1960's average holding period was seven years
- Today, average holding period is less than one year and annual portfolio turnover is more than 100%¹

Major Reactions to Quarterly Earnings

- Stock prices make large moves in response to earnings surprises
- Suggests that long-term cash flows are less important

<u>Amateur Individual Investors - Growth Market</u>

- Schwab, TD Waterhouse, Scottrade
- Day trading

Media - Growth Market

- TV: Mad Money, CNBC Squawk Box, and Squawk on the Street
- Print: Wall Street Journal, Investors Business Daily, local newspapers
- Web: Motley Fool, TheStreet.Com, CBS MarketWatch

¹Rappaport, Alfred. "The Economics of Short-Term Performance Obsession." *Financial Analysts Journal*, vol. 61, no. 3 (May/June): 65-79.

WHICH ARE YOU: INVESTOR OR SPECULATOR?



Speculator

"If you are a speculator, your decision to buy or sell is based on what you believe about the near-term direction of price."
- Ben Graham

"...speculation is the activity of forecasting the psychology of the market."

- John Maynard Keynes

Vs.

Investor

"If you are an investor, your decision to buy and sell is based on the underlying economics of the stock you own."

- Ben Graham

"Investing is an activity of forecasting the yield on assets over the life of the asset..."

- John Maynard Keynes

ONLY 3 WAYS TO BEAT THE MARKET



Better Data - difficult and expensive to obtain

• Gathering and analyzing data from the Notes to the Financial Statements provides a competitive advantage.

Better Analysis - not just your neighbor, one must out-think the entire market

- Better data means better models.
- Better models provide better analysis.

Better Discipline - stick to your guns, don't follow the herd.

- Long and short strategy is built on specific, quantifiable thresholds derived from a model we can trust.
- Our models do all the number crunching to supply our human capital with superior information and decision-making capabilities.

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