

# Misleading Accounting Earnings Add Risk? 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.

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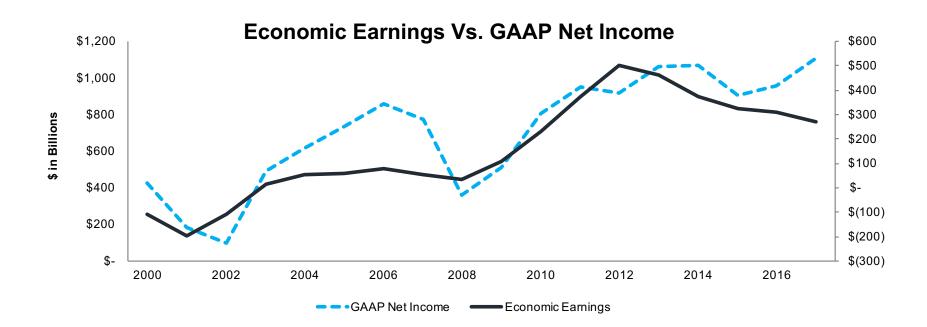


- 1. Reported/accounting vs Economic earnings
- 2. What's the difference?
- 3. Why does the difference matter?
- 4. How do you protect yourself?
- 5. Why do you need protection now more than ever?



*"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 5/4/17 & 2/28/18

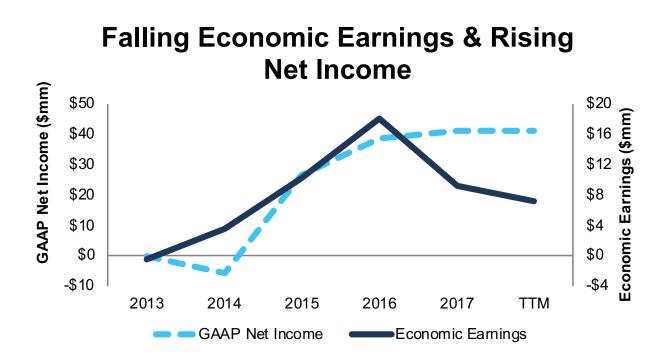


SEE THE DIFFERENCE: PROTECT YOUR PORTFOLIO Accounting Results Going Up Economic Earnings Going Down



Installed Building Products (IBP)

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

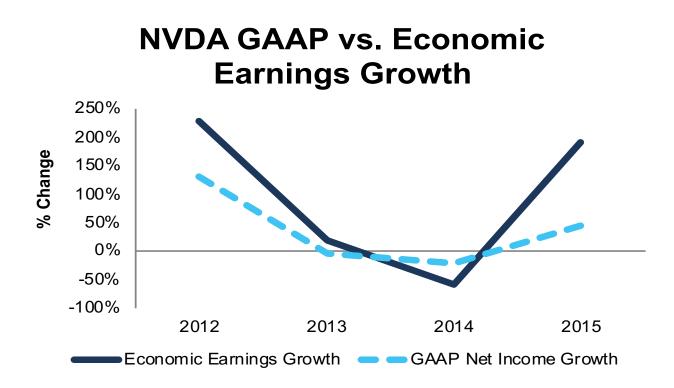


\*This graph was created based on information collected and analyzed by New Constructs, LLC. New Constructs regularly gathers information from over 3,000 companies' 10Ks, including the Notes to the Financial Statements and MD&A.



NVIDIA (NVDA)

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



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# Part II What's the difference?



Core Problem: GAAP is exploitable.

Only Solution: Read the Footnotes and MD&A.

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

### WHAT IS DILIGENCE?



- 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
- es Pension Over/Under Funding
  - Auditor's Opinions
  - Carrying Value vs Fair Value
  - Mid-year acquisitions

New Construct



- **NOPAT**  $\implies$  core operating earnings after-tax
- **Invested Capital**  $\implies$  all cash invested in the business
- WACC is rent management must pay for use of capital

<u>Return on Invested Capital</u> = 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** 

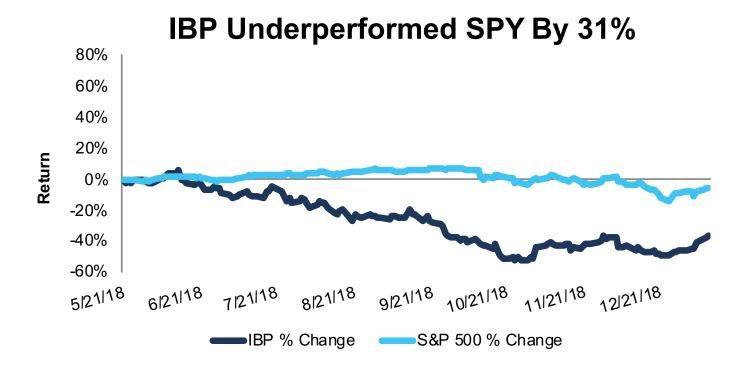


# Part III Why do economic earnings matter?



"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



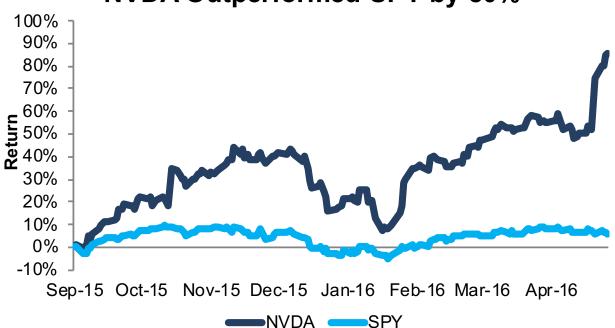
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# ECONOMICS DRIVE PERFORMANCE Buy Call on <u>9/24/2015</u>: NVIDIA (NVDA)



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



#### **NVDA Outperformed SPY by 80%**

\*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.



# 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

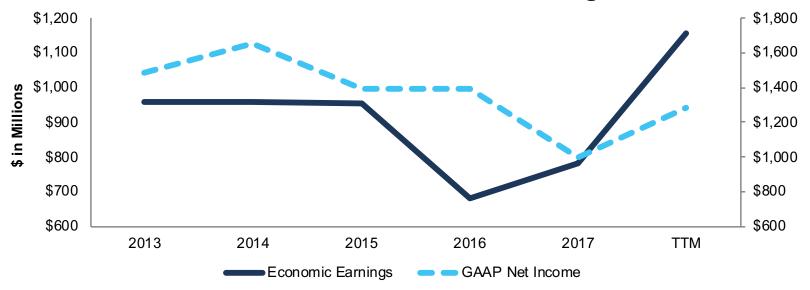


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#### Accounting Earnings Understate Growth

- 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



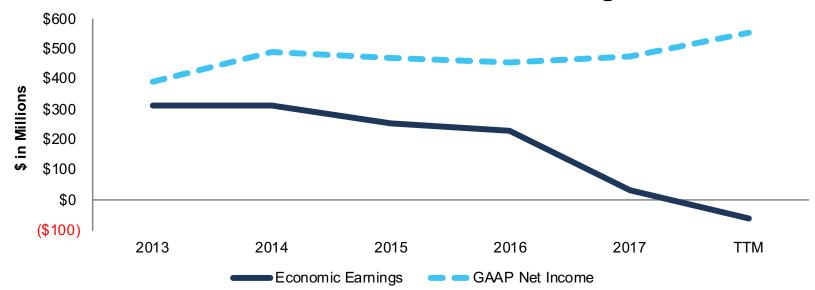
#### **CMI GAAP vs. Economic Earnings**

\*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.



#### 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, 3<sup>rd</sup> best S&P 500 performer
- 4. Valuation implies 12% NOPAT CAGR for nine years
- 5. Up 4% while SPY up 2% since our report



#### **AAP GAAP vs. Economic Earnings**

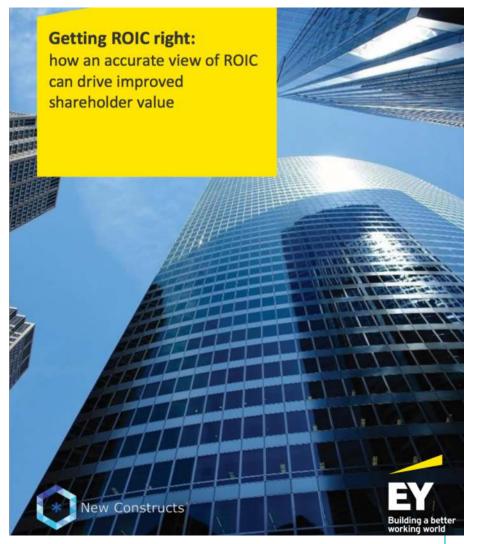
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### ERNST & YOUNG SHOWS OUR RIGOR MATTERS White Paper: Investors Deserve Better Data



- It's not often that a big 4 accounting firm like E&Y features the material superiority of a research firm's analytics.
- Our data is materially better.
   The white paper proves it.
- 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.





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

Click here for a copy.



KYLE THOMAS

#### New Constructs: Disrupting Fundamental Analysis with Robo-Analysts

CED 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 everyhody'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 sparheaded 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 Contex C.Y. Wong and Research Associate Kylo Thomas requested this case It was reviewed and approved below publication by a company helpson. Funding for the development of this case was probably by Diarent Basies folds and and they by company. If Bis case developed solely as the basis for class discussion. Cases are not intended to serve as endorsements, sources of primary data, or illustrations of effective or indevice management.

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#### THE TECHNOLOGY WORKS = DILIGENCE WITH SCALE 3<sup>rd</sup>-Party Validation By Harvard Business School & MIT Sloan



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

Ethan Rouen Harvard Business School

Eric So Massachusetts Institute of Technology Sloan School of Management

> Charles C.Y. Wang Harvard Business School

#### July 2018 Please do not distribute without authors' permission

#### Abstract

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.



### Quotes from 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."

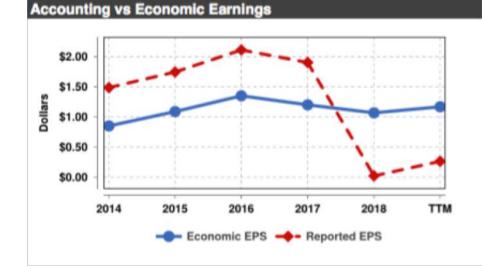


# Part IV How do you protect yourself?

# GET RESEARCH ON ECONOMIC EARNINGS

Compare reported vs economic results





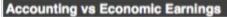
#### Accounting Adjustments Summary

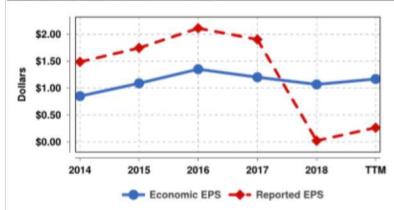
- CSCO's accounting earnings understate its economic earnings, which equal (ROIC - WACC) \* Average Invested Capital.
- For CSCO, we made a total of \$100,886 million in income statement and balance sheet adjustments to convert accounting earnings to economic earnings in FY18.
- We made \$74,768 million 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.



#### Investment Rating Details

Risk/Reward Rating	Quality of	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		





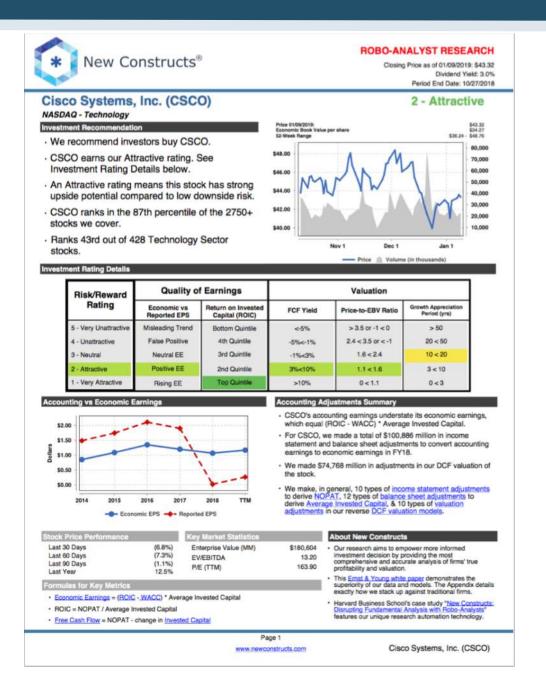
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### MORE RIGOR FOR SMARTER DECISIONS

You deserve the best fundamental research





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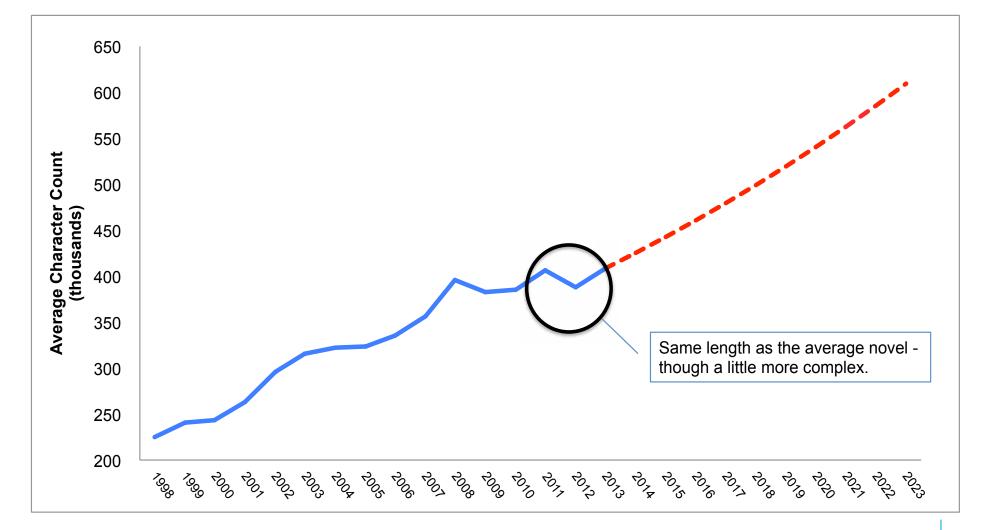
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- 2. when Search Reports (below) is displayed
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# Part V Why you need protection now more than ever.

## FILINGS GETTING LONGER & LONGER Keeping Up With Disclosures Is Nearly Impossible



New Constructs<sup>e</sup>

## DISCLOSURE TRENDS ARE NOT YOUR FRIEND More Data, More Noise, More Complexity



(That's longer than the average novel.)

- Increasingly complex and time-consuming work
- Accounting rules are constantly changing











New Constructs









## 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 hedge fund and institutional money managers •
- Top wealth management firms
- Top advisors
- Top accounting, insurance & consulting firms



CNBC

New Constructs<sup>e</sup>



# 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/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.

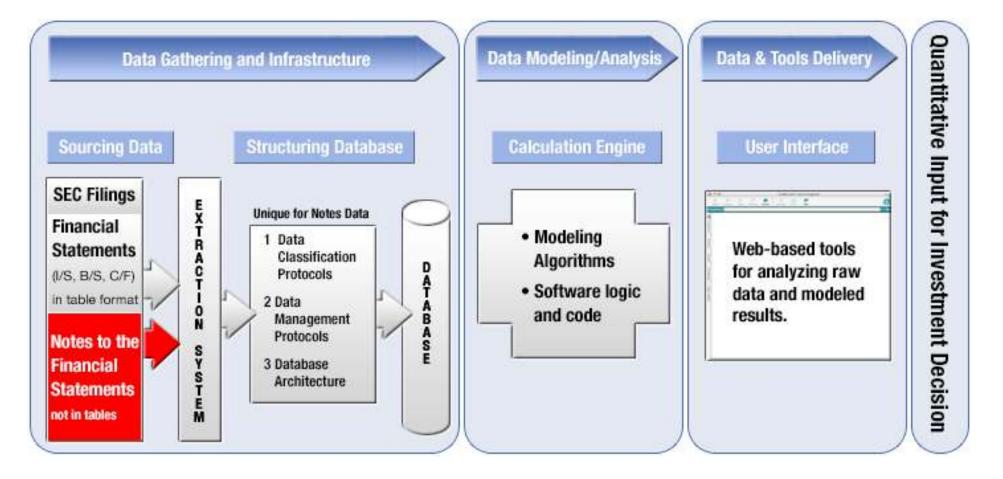


 Consultants/Corporates: custom engagements focused on enterprise value optimization and investor relations strategy. Direct access via our website along with custom work and consultation via partners.



# RESEARCH TECHNOLOGY PLATFORM Data Collection & Modeling Under One Roof





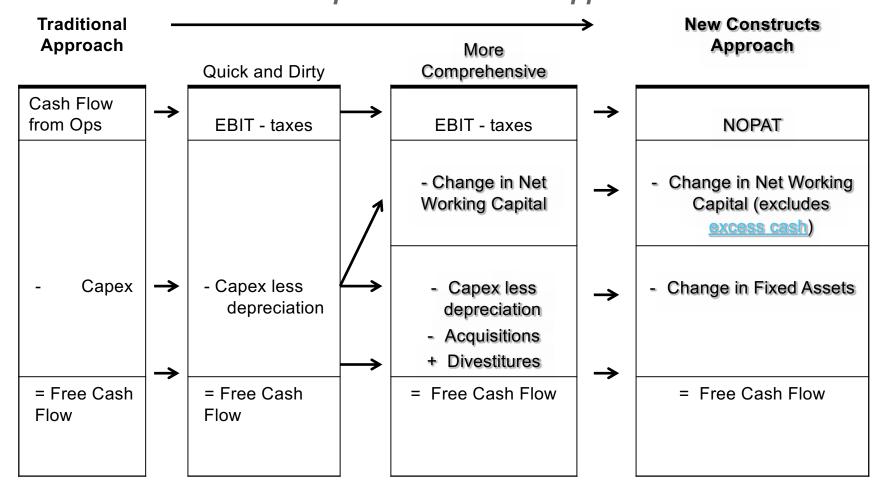
We created our own data collection technology to provide high integrity models to clients. Traditional data feeds are not trustworthy for sophisticated financial modeling.



	Coverage			Cash Flow Focus Consister (Non-GAAP) Dilliger					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	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$
Credit-Suisse HOLT	$\checkmark$			$\checkmark$				1/2			
EVA Dimensions/ISS	$\checkmark$			$\checkmark$						$\checkmark$	$\checkmark$
MorningStar	$\checkmark$	$\checkmark$	$\checkmark$	black box							$\checkmark$
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Other Sell-Side	$\checkmark$										
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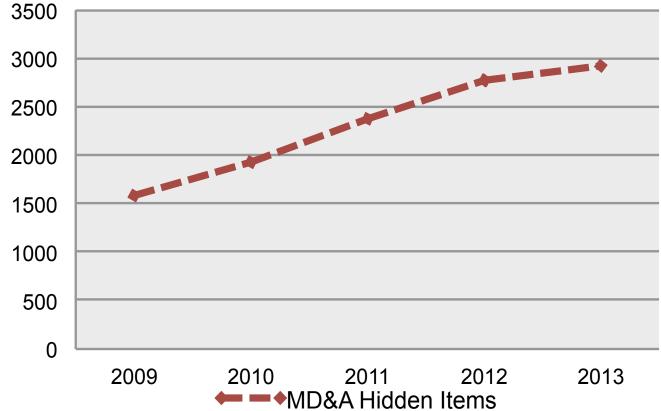


### Free Cash Flow: <u>NOPAT</u> minus Change in <u>Invested Capital</u> How We Compare to traditional approaches to FCF





# Material Hidden Items 16% CAGR

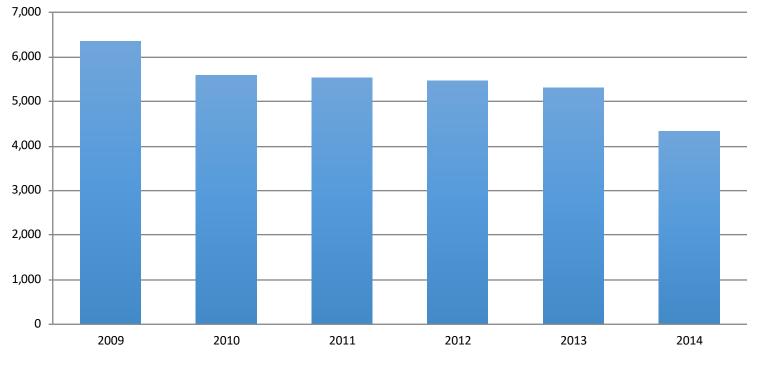


Items found only in the MD&A (e.g. gains, charges, deferred items, etc) that distort income statement results are rising rapidly.



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

# of Write-Downs

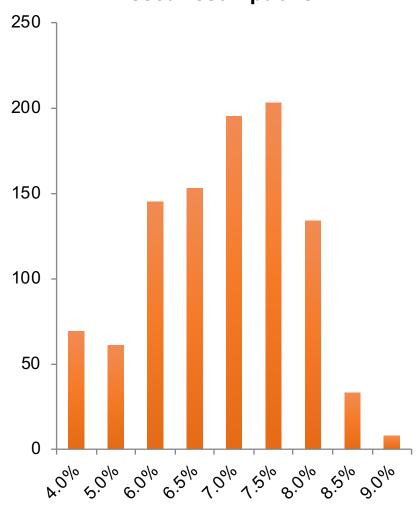


Total - 3000+ companes

New Constructs

# 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%.

New Construct



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%<sup>1</sup>

#### Major Reactions to Quarterly Earnings

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

#### Amateur Individual Investors - Growth Market

- 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

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

New Construct

# WHICH ARE YOU: INVESTOR OR 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



"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

New Construe

# 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.

New Construct

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