

How Our Stock Rating System Works And What Our DCF Says About Netflix

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. How Our Stock Rating System Works
- 2. What Our DCF Says About Netflix
- 3. How do you protect yourself?
- 4. Get better research for free



Part I How Our Stock Rating System Works



Microsoft Corporation (MSFT)

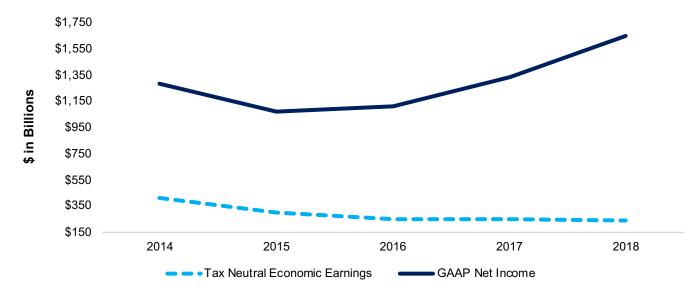
Closing Price: \$128.90 (May 03, 2019) Market Value: \$987,737 Million Dividend Yield: 1.4% Sector: Technology

Analyst Notes : New 10-Q & Forecast 4/25/19

			Valuation			
Economic vs Reported EPS ⑦	ROIC ⑦	FCF Yield ⑦	Price to EBV ⑦	Market-Implied GAF		
Misleading Trend	Bottom Quintile	< -5%	> 3.5 or -1 < 0	> 50		
False Positive	4th Quintile	-5% < -1%	2.4 < 3.5 or < -1	20 < 50		
Neutral EE	3rd Quintile	-1% < 3%	1.6 < 2.4	10 < 20		
Positive EE	2nd Quintile	3% < 10%	1.1 < 1.6	3 < 10		
Rising EE	Top Quintile	> 10%	0 < 1.1	0 < 3		
\$3.15 vs. \$4.48	32%	2%	2.3	> 100 yrs		
Positive EE	30%	2%	3.5	54 yrs		
Positive EE	18%	2%	2.8	43 yrs		
Positive EE	6%	-1%	3.3	42 yrs		
	EPS ⑦Misleading TrendFalse PositiveFalse Positive EEPositive EERising EE\$3.15 vs. \$4.48Positive EEPositive EEPositive EEPositive EEPositive EE	EPS ()ROIC ()Misleading TrendBottom QuintileFalse Positive4th QuintileNeutral EE3rd QuintilePositive EE2nd QuintileRising EETop Quintile\$3.15 vs. \$4.4832%Positive EE30%Positive EE18%	EPS ()ROIC ()FCF Yield ()Misleading TrendBottom Quintile<-5%	EPS () ROIC () FCF Yield () EBV () Misleading Trend Bottom Quintile <-5%		



- "CFOs believe that in any given year a remarkable <u>one in</u> <u>five firms intentionally misrepresent</u> their earnings using discretion within generally accepted accounting principles (GAAP). The magnitude of the typical <u>misrepresentation is</u> <u>quite material: about 10 cents on every dollar</u>." (Source)
- Economic earnings, which adjust for earnings manipulation and the cost of capital, tell a different story



GAAP Earnings Rising, Economic Earnings Falling

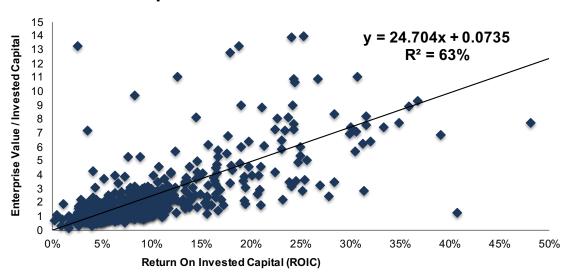
*This graph was created based on information collected and analyzed by New Constructs, LLC. New Constructs regularly gathers information from over 3,000 companies' 10Ks, including the Notes to the Financial Statements and MD&A.

• Return on Invested Capital (ROIC) is the most important measure of profitability.

NOPAT/Average Invested Capital



NOPAT/Revenue * Revenue/Average Invested Capital



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ROIC Explains 63% of Valuation for S&P 500

New Constructs



We use three metrics to quantify the growth expectations embedded in a company's stock price:

- 1. Free Cash Flow Yield
 - Free cash flow divided by enterprise value
- 2. Price to Economic Book Value (PEBV)
 - Ratio of market cap to the zero-growth value of the company
- 3. Growth Appreciation Period (GAP)
 - Measures the years of growth required to justify the valuation
 - Uses historical margins and consensus analyst forecasts for revenue growth in our <u>reverse DCF model</u>



Part II What Our DCF Says About Netflix

WHY NETFLIX IS RISKY What Our Rating Says



Ticker: NFLX

View Ratings Coverage

Ratings Methodology

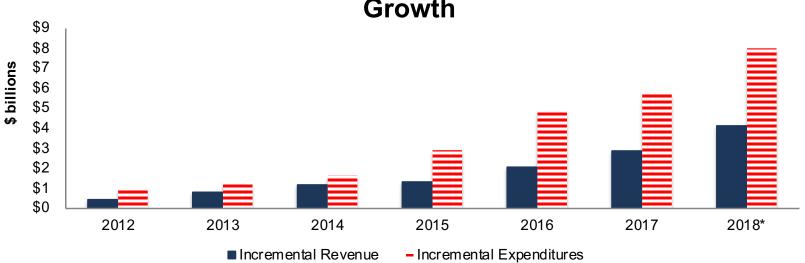
Netflix Inc. (NFLX) Closing Price: \$385.03 (May 03, 2019) Market Value: \$168,332 Million Sector: Technology

Analyst Notes : New 10-Q & Forecast 4/22/19 Added to the Focus List (Short) Model Portfolio Feb 2019

	Quality of E	Earnings	Valuation			
Risk/Reward Rating ⑦	Economic vs Reported EPS ⑦	ROIC ⑦	FCF Yield ⑦	Price to EBV ⑦	Market-Implied GAF	
Very Unattractive	Misleading Trend	Bottom Quintile	< -5%	> 3.5 or -1 < 0	> 50	
Unattractive	False Positive	4th Quintile	-5% < -1%	2.4 < 3.5 or < -1	20 < 50	
Neutral	Neutral EE	3rd Quintile	-1% < 3%	1.6 < 2.4	10 < 20	
Attractive	Positive EE	2nd Quintile	3% < 10%	1.1 < 1.6	3 < 10	
Very Attractive	Rising EE	Top Quintile	> 10%	0 < 1.1	0 < 3	
Actual Values						
NFLX	-\$0.83 vs. \$2.80	8%	-2%	-119.4	> 100 yrs	
Benchmarks ⑦						
Sector ETF (QQQ)	Positive EE	30%	2%	3.5	54 yrs	
S&P 500 ETF (SPY)	Positive EE	18%	2%	2.8	43 yrs	
Small Cap ETF (IWM)	Positive EE	6%	-1%	3.3	42 yrs	



- 1. NFLX spent \$13 billion on content last year, spending will likely rise to \$17.5 billion in 2019
- 2. Debt has increased from \$500 million in 2012 to \$11.5 billion currently, with \$2 billion more coming soon.



Revenue Growth Is 50% Slower Than Expenditure Growth

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WHY YOU SHOULD AVOID NETFLIX Loss of Licensed Content



- 1. Netflix stands to lose content from Disney, Time Warner, and NBC Universal in the near future when those companies start their own streaming services.
- 2. Licensed content accounted for 3 of the top 4 streamed shows in November 2018
- 3. Licensed content accounts for ~2/3 of viewing hours

RANK	TITLE	STUDIO
1	THE OFFICE (U.S.)	NBC
2	CHILLING ADVENTURES OF SABRINA	NETFLIX
3	FRIENDS	Warner
4	GREY'S ANATOMY	ABC
5	HOUSE OF CARDS	NETFLIX
6	THE GREAT BRITISH BAKING SHOW	NETFLIX
7	MARVEL'S DAREDEVIL	NETFLIX
8	NARCOS: MEXICO	NETFLIX
9	THE HAUNTING OF HILL HOUSE	NETFLIX
10	CRIMINAL MINDS	CBS

*Source: 7Park Data



- 1. Our DCF shows that if NFLX maintains current pricing/margins, they need to hit 3.8 billion subscribers
 - Math behind this scenario
- 2. If they raise prices to \$20/month and achieve same margins as DIS, still need over 500 million subscribers
 - Math behind this scenario

			Implied by Cur	rent Stock Price
	Monthly Subscription Price	Pre-Tax Margin	Revenue (\$mm)	Subscribers (million)
Scenario 1	\$13	11.2%	\$594,586	3,811
Scenario 2	\$20	25.3%	\$123,995	517

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Part III How Do You Protect Yourself?



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

Core Problem: Filings can be 200+ pages long Only Solution: The Robo-Analyst

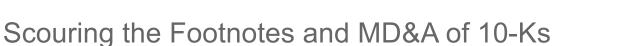
- 1. Robo-Analyst uses machine learning and natural language processing to read 200+ page filings instantly
- 2. Automatically collects and models thousands of data points, flags unusual items for human analysts to review

New Constructs

3. Technology makes a level of diligence previously reserved for institutional investors available to everyone



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

Return on Invested Capital = NOPAT/Avg Invested Capital

Economic Earnings = (ROIC – WACC) * Invested Capital

• Aka: "EVA", economic profit, residual income



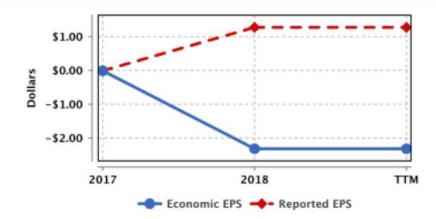
Part IV Get Better Research – for free!

GET RESEARCH ON ECONOMIC EARNINGS

Compare reported vs economic results



Accounting vs Economic Earnings



Earnings & Valuation Diligence Summary

- UBER's accounting earnings overstate its economic earnings, which equal (ROIC - WACC) * Average Invested Capital.
- For UBER, we made a total of \$15,910 million in income statement and balance sheet adjustments to convert accounting earnings to economic earnings in FY18.
- We made \$9,369 million in adjustments in our DCF valuation of the stock.
- See Appendix 1 for details on our calculations of key metrics and Appendices 2 and 3 for details on our <u>adjustments</u>.

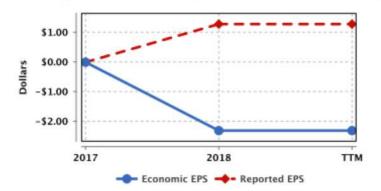
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Investment Rating Details

Risk/Reward	Quality of	Earnings	Valuation			
Rating	Economic vs Reported EPS	Return on Invested Capital (ROIC)	FCF Yield	Price-to-EBV Ratio	Growth Appreciation Period (yrs)	
Very Unattractive	Misleading Trend	Bottom Quintile	<-5%	> 3.5 or -1 < 0	> 50	
Unattractive	False Positive	4th Quintile	-5%<-1%	2.4 < 3.5 or < -1	20 < 50	
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Attractive	Positive EE	2nd Quintile	3%<10%	1.1 < 1.6	3 < 10	
Very Attractive	Rising EE	Top Quintile	>10%	0 < 1.1	0 < 3	
Actual Values	(\$2.32) vs. \$1.27	-12%	-11%	-2.1	> 100	
Sector ETF (QQQ)	Positive EE	30%	2%	3.5	54	
S&P 500 ETF (SPY)	Positive EE	18%	2%	2.8	43	

Accounting vs Economic Earnings



Earnings & Valuation Diligence Summary

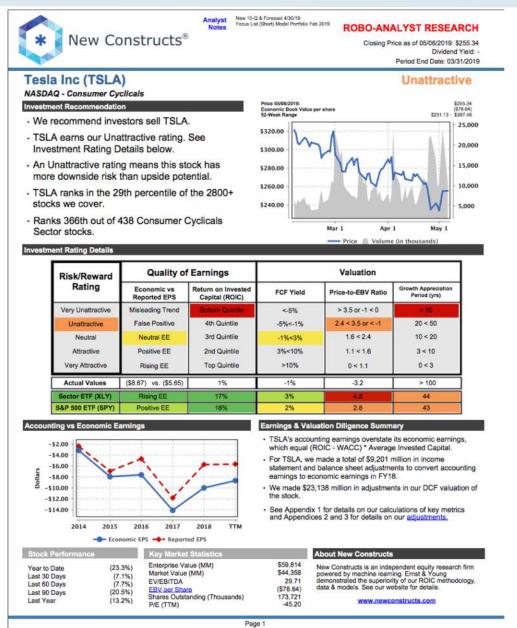
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MORE RIGOR FOR SMARTER DECISIONS

You deserve the best fundamental research



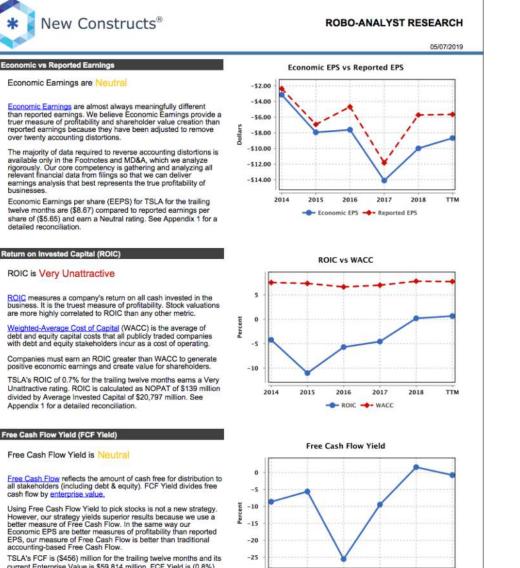


Tesla Inc (TSLA)

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than reported earnings. We believe Economic Earnings provide a truer measure of profitability and shareholder value creation than reported earnings because they have been adjusted to remove over twenty accounting distortions.

available only in the Footnotes and MD&A, which we analyze rigorously. Our core competency is gathering and analyzing all relevant financial data from filings so that we can deliver earnings analysis that best represents the true profitability of businesses

twelve months are (\$8.67) compared to reported earnings per share of (\$5.65) and earn a Neutral rating. See Appendix 1 for a detailed reconciliation.

are more highly correlated to ROIC than any other metric.

Companies must earn an ROIC greater than WACC to generate positive economic earnings and create value for shareholders.

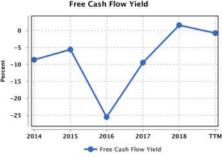
Unattractive rating. ROIC is calculated as NOPAT of \$139 million divided by Average Invested Capital of \$20,797 million. See Appendix 1 for a detailed reconciliation

Free Cash Flow Yield (FCF Yield)

Free Cash Flow reflects the amount of cash free for distribution to all stakeholders (including debt & equity). FCF Yield divides free cash flow by enterprise value.

However, our strategy yields superior results because we use a better measure of Free Cash Flow. In the same way our Economic EPS are better measures of profitability than reported EPS, our measure of Free Cash Flow is better than traditional accounting-based Free Cash Flow.

current Enterprise Value is \$59,814 million. FCF Yield is (0.8%) and earns a Neutral rating. See Appendix 1 for a detailed reconciliation



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New Constructs®

ROBO-ANALYST RESEARCH

05/07/2019

rice-to-EBV Ratio

Price-to-EBV Ratio is Unattractive

Price-to-Economic Book Value (EBV) measures the difference between the market's expectations for future profits and the no-growth value of the stock.

EBV measures the no-growth value of the company based on the company's current Net Operating Profit After Tax (NOPAT).

When prices are higher than EBV, the market predicts the NOPAT of the company will increase and expectations for profit growth are reflected in the stock. If the stock price equals EBV, the market predicts NOPAT will remain the same and there are no expectations for profit growth reflected in the stock. When stock prices are lower than EBV, the market predicts NOPAT will decrease and expectations for permanent profit decline are reflected in the stock.

In general, we like to buy stocks with low expectations for profit growth and sell/short stocks with high expectations for profit growth.

TSLA's current Price-to-EBV per share is (3.2) and earns an Unatractive rating. TSLA's stock price is \$255.34 and its EBV per share for the trailing twelve months is (\$78.64). See Appendix 1 for a detailed reconciliation.

Growth Appreciation Period

The Growth Appreciation Period is Very Unattractive

The market-implied duration of profit growth or GAP measures the number of years the company must maintain an edge over its competitors by earning ROIC greater than the weighted-average cost of capital on new investments.

We believe TSLA embeds a Very Unattractive level of market expectations because there is a very large difference between the expected financial performance implied by its market price and the company's historical performance.

At TSLA's current stock price of \$255.34, the market is expecting revenue to grow at 5.2% for more than 100 years. Over this period, TSLA is also expected to generate an average Economic Earnings Margin of 3.3%.

These results are derived using our <u>dynamic discounted cash</u> flow model.



	Histo	rical Perform	Market Expectations		
Performance Hurdles	5 Yr	3Yr	Last FY	Default based on survert plice	
Stock Price	\$222.41	\$213.69	\$332.80	\$255.34	
Revenue CAGR	60.9%	75.1%	81,2%	5.2%	
ROIC - WACC	(10.0%)	(10.0%)	(7.2%)	3.3%	
Growth Appreciation Period		-		> 100 years	

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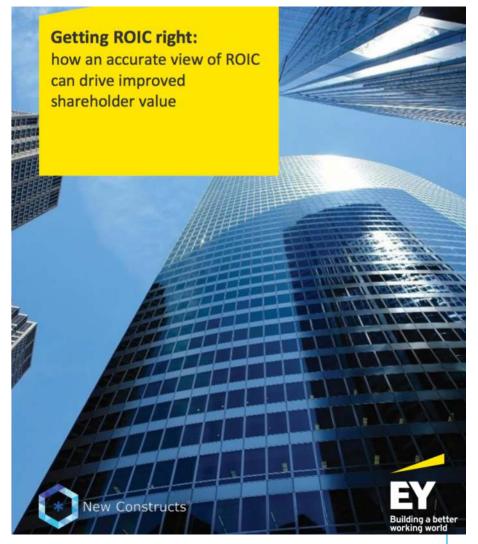
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ERNST & YOUNG SHOWS OUR RIGOR MATTERS White Paper: Investors Deserve Better Data



- 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.





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

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.

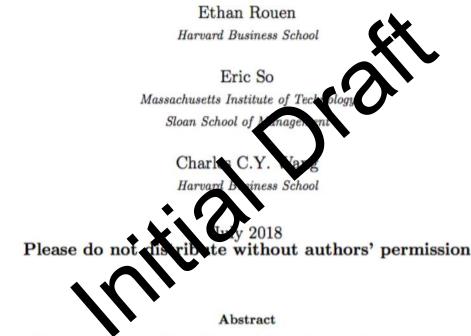
Although these adjustments were often meaningful to his overall assessment of a firm's operating performance and valuation, integrating these details into financial models was not the norm among many sell-side analysts. Trainer believed this was due to a few reasons. For one, the increasing length and 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.

Protour Chuther C.Y. Wong and Research Associate Kyler Thomas prepared this case. It was reviewed and approved before publication by a company heighter. Including the development of this case was provided by Harrow Research and not by the company IHS case are coreduped aduly as the basis for class discussion. Cases are not intended to heave as endowneems, sources of primary data, or illustrations or effective or infective management.

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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.

New Constructs³⁸ Diligence | Lineosenderice | Performence

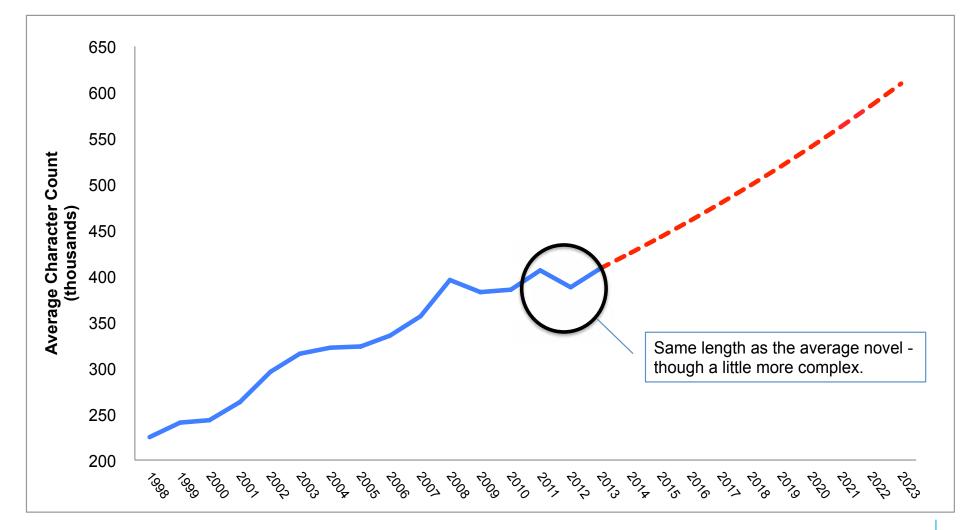
Quotes from the initial draft of the paper:

- "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 V Why you need protection now more than ever.

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



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New Constructs^e

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?



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GET THE DILIGENCE YOU DESERVE



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



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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



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.

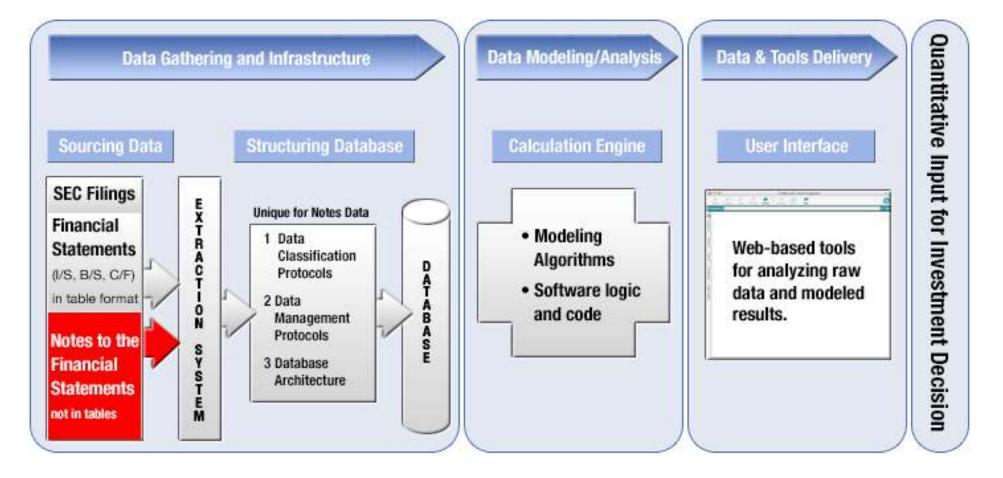


 Consultants/Corporates: custom engagements focused on enterprise value optimization and investor relations strategy. Direct access via our website along with custom work and consultation via partners.



RESEARCH TECHNOLOGY PLATFORM Data Collection & Modeling Under One Roof

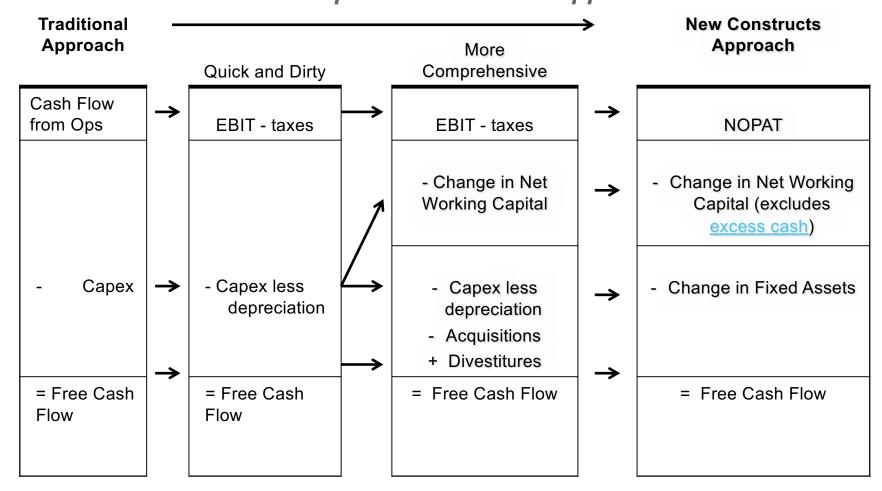




We created our own data collection technology to provide high integrity models to clients. Traditional data feeds are not trustworthy for sophisticated financial modeling.

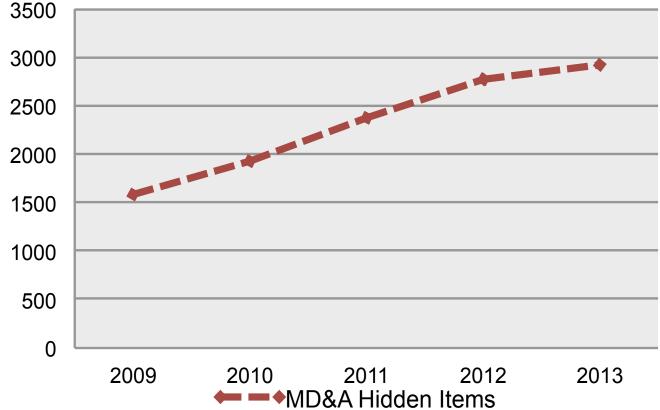


Free Cash Flow: <u>NOPAT</u> minus Change in <u>Invested Capital</u> How We Compare to traditional approaches to FCF





Material Hidden Items 16% CAGR

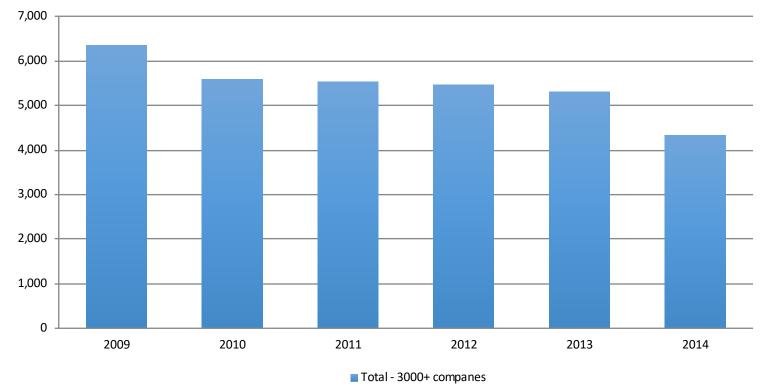


Items found only in the MD&A (e.g. gains, charges, deferred items, etc) that distort income statement results are rising rapidly.



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

of Write-Downs

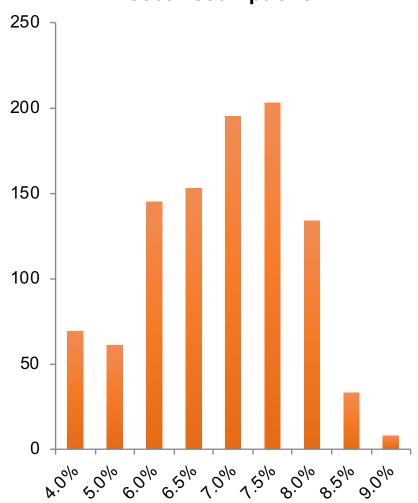


*This graph was created based on information collected and analyzed by New Constructs, LLC. New Constructs regularly gathers information from over 3,000 companies' 10Ks, including the Notes to the Financial Statements and MD&A.

New Constructs^e

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%.

*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.

New Constructs



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

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

¹Rappaport, 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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