



This ETF Is Building Value

We have long warned against using traditional metrics such as [price-to-earnings \(P/E\)](#) and [price-to-book \(P/B\)](#) and suggest investors use updated and more rigorous valuation methods, such as those detailed in [Value Investing 2.0](#). Finding ETFs that do not rely on traditional metrics and allocate to quality stocks is difficult, but we did find one recently.

While the ETF's performance since its inception in 2014 hasn't been outstanding ([annualized returns](#) of 3% over the past five years), our unique [ETF research](#) reveals that this ETF offers excellent risk/reward. Alpha Architect U.S. Quantitative Value ETF (QVAL) is this week's [Long Idea](#).

Our Research Looks Forward, Not Backward

With annualized returns over the past three years of -2% versus [1% for the benchmark](#), iShares Russell Mid-Cap Value ETF (IWS), many investors might overlook this ETF. This underperformance certainly drives Morningstar's 1-Star rating.

On the other hand, looking forward instead of backward, we assign QVAL our best rating: Very Attractive. We base our forward-looking [Fund Ratings](#) on in-depth analysis of the holdings of funds.

Figure 1: Alpha Architect U.S. Quantitative Value ETF Ratings

Ticker	Morningstar Rating	New Constructs Rating
QVAL	1 Star	Very Attractive (i.e. 5 Stars)

Sources: New Constructs, LLC, company filings, and [Morningstar](#)

To properly evaluate any ETF, including QVAL, one must analyze the filings, including the footnotes and MD&A, of each of the ETF's holdings. This diligence takes an enormous amount of time and is unavailable to most without the aid of technology.

Our [Robo-Analyst technology](#)¹ allows us to apply our [superior fundamental analysis](#) to all the holdings in an ETF. By leveraging this technology, we're able to find ETFs, like QVAL, with holdings and methodology that suggest future performance should be strong.

Holdings Research Reveals a Strong Stock-Selection Methodology

Alpha Architect U.S. Quantitative Value ETF managers' [investment process](#) systematically and automatically chooses the "cheapest, highest quality value stocks" based on a variety of fundamental metrics.

Instead of using traditional metrics such as price-to-earnings and price-to-book ratios, the firm uses earnings before interest and taxes / total enterprise value (EBIT/TEV). While not identical, this metric is closer to the free cash flow ([FCF](#)) yield calculation used in our overall risk/reward ratings than more traditional metrics.

Additionally, the managers use free cash flow, return on capital, and margin performance to identify "economic moat", which is used to determine the overall quality of a stock.

The managers also try to account for the [unreliability of reported numbers](#) by using "forensic accounting screens" that look for differences between reported earnings and cash from operations.

Mentioning the use of rigorous metrics or analysis that goes beyond reported numbers in its methodology is not enough to ensure a quality portfolio. The managers of the ETF must put their money where their mouth is and follow through on their stated strategy. We've [seen](#) mutual funds with a good methodology on paper that have low-quality and overvalued holdings in practice.

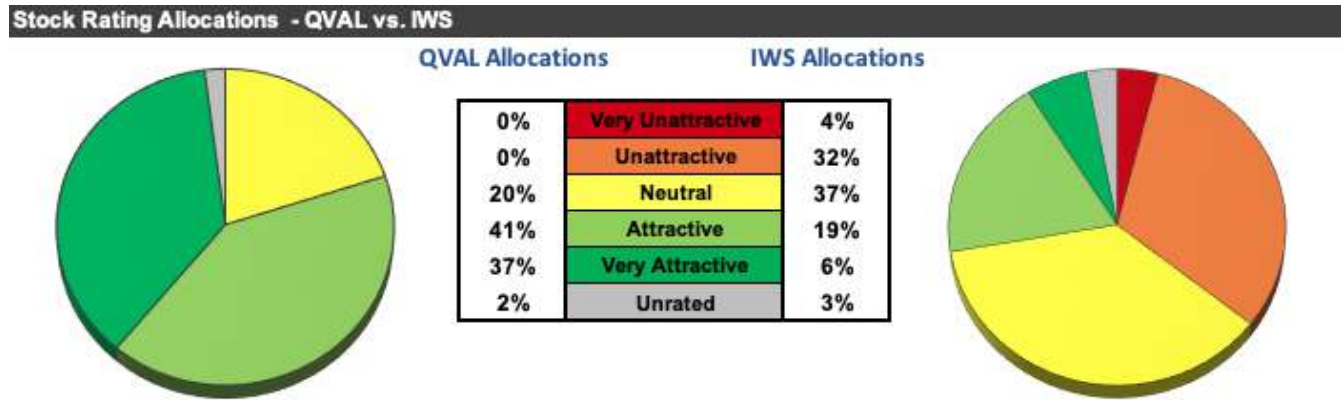
¹ Harvard Business School features our Robo-Analyst research automation technology in the case [New Constructs: Disrupting Fundamental Analysis with Robo-Analysts](#).



Through our holdings analysis, we know this ETF's automated process picks more attractive stocks compared to its style benchmark, the iShares Russell Mid Cap Value ETF (IWS).

Figure 2 shows that QVAL allocates a significantly higher percentage of its assets to Attractive-or-better rated stocks and a significantly lower percentage to Neutral-or-worse rated stocks than its style benchmark.

Figure 2: QVAL Allocates Capital to Superior Holdings



Sources: New Constructs, LLC and company filings

Per Figure 2, QVAL allocates 78% of its assets to Attractive-or-better rated stocks compared to just 25% for IWS. On the flip side, QVAL allocates 0% of its assets to Unattractive-or-worse rated stocks compared to 36% for IWS.

Given this favorable allocation relative to the benchmark, QVAL appears well-positioned to capture more upside with lower risk. Compared to the average ETF, QVAL has a much better chance of generating the outperformance required to justify its fees.

Superior Stock Selection Drives Superior Risk/Reward

By including free cash flow, return on capital, and EBIT/TEV in its stock-picking methodology, we find that QVAL allocates to stocks with low price-to-economic book value ([PEBV](#)) ratios, high FCF yields, low growth appreciation periods ([GAP](#)), high return on invested capital ([ROIC](#)), and positive [economic earnings](#).

QVAL's ROIC of 15% ranks in the top-quintile of our coverage universe and well above the 7% earned by IWS' holdings.

Figure 3 contains our detailed rating for QVAL, which includes each of the criteria we use to rate all ETFs under coverage. These criteria are the same for our [Stock Rating Methodology](#), because the performance of an ETF's holdings equals the performance of the ETF after fees.



Figure 3: Alpha Architect U.S. Quantitative Value ETF (QVAL) Rating Breakdown

Risk/Reward Rating ?	Portfolio Management ?					Total Annual Costs ?
	Quality of Earnings		Valuation			
	Economic vs Reported EPS ?	ROIC ?	FCF Yield ?	Price to EBV ?	Market-Implied GAP ?	
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	2%<4%
Neutral	Neutral EE	3rd Quintile	-1%<3%	1.6<2.4	10<20	1%<2%
Attractive	Positive EE	2nd Quintile	3%<10%	1.1<1.6	3<10	0.5%<1%
Very Attractive	Rising EE	Top Quintile	>10%	0<1.1	0<3	<0.5%
Actual Values						
QVAL	Positive EE	15%	6%	0.8	< 1 yr	0.5%
Benchmarks ?						
Style ETF (IWS)	Positive EE	7%	2%	3.3	21 yrs	0.3%
S&P 500 ETF (SPY)	Positive EE	22%	1%	3.1	34 yrs	0.1%
Small Cap ETF (IWM)	Positive EE	3%	-0%	3.8	36 yrs	0.2%

Sources: New Constructs, LLC and company filings

QVAL Finds Cheap Stocks, Too

QVAL’s holdings are also superior to IWS (click [here](#) for our report on IWS) in all three valuation categories:

- QVAL’s free cash flow yield of 6% is higher than IWS (2%) and SPY (1%).
- The PEBV ratio for QVAL is 0.8, which is less than the 3.3 for IWS holdings and the 3.1 of SPY holdings.
- Our [discounted cash flow analysis](#) reveals an average market implied growth appreciation period (GAP) of less than one year for QVAL’s holdings compared to 21 years for IWS and 34 years for the SPY.

In other words, the stocks held by QVAL generate quality cash flows and have lower valuations compared to IWS. The market expectations for stocks held by QVAL imply permanent profit decline (measured by PEBV ratio) while the expectations embedded in IWS’s holdings imply a more than tripling of profits. High historical profits and low expectations for future profits are an attractive combination.

39 of QVAL’s 40 holdings are in our coverage universe. Of these 39 holdings:

- none receives a Risk/Reward rating below Neutral
- each has a PEBV ratio of 1.2 or less
- each has a GAP of eight years or less

Given its focus on quality and valuation, it’s no wonder that 30% of the ETF’s holdings are stocks we’ve featured as [Long Ideas](#). Figure 4 shows the 12 [holdings](#) that are also open Long Ideas.



Figure 4: Open Long Ideas That Are QVAL Holdings

Company	Ticker
Allison Transmission Holdings Inc	ALSN
D.R. Horton, Inc.	DHI
Best Buy Co, Inc.	BBY
Intel Corporation	INTC
Insight Enterprises	NSIT
Hanesbrands Inc.	HBI
ManpowerGroup	MAN
Universal Health Services, Inc.	UHS
CVS Health Corp	CVS
HCA Healthcare Inc	HCA
Gilead Sciences, Inc.	GILD
Western Union Co	WU

Sources: New Constructs, LLC

Above Average Costs Are Offset by Quality Holdings

QVAL’s 0.54% total annual costs (TAC) are above the weighted average of all Mid Cap Value ETFs under coverage, which sits at 0.21%. However, QVAL justifies its costs by executing an intelligent investment strategy and being only one of two Mid Cap Value ETFs to earn a Very Attractive Portfolio Management Rating.

Figure 5 shows our breakdown of QVAL’s total annual costs, which is [available](#) for all of the 7,000+ mutual funds and 400+ ETFs under coverage.

Figure 5: QVAL’s Annual Costs

Total Annual Costs	
Expense Ratio	0.49%
Total Annual Costs	0.54%
Rank (percentile)	32%

Sources: New Constructs, LLC and company filings

A Closer Look at a Quality Holding

We made HCA Healthcare Inc (HCA: \$133/share) a Long Idea in [June 2020](#). Since then, the stock is up 35% while the S&P 500 up 13%. Despite the price increase, the stock continues to earn a Very Attractive rating and remains on our [Focus List - Long](#).

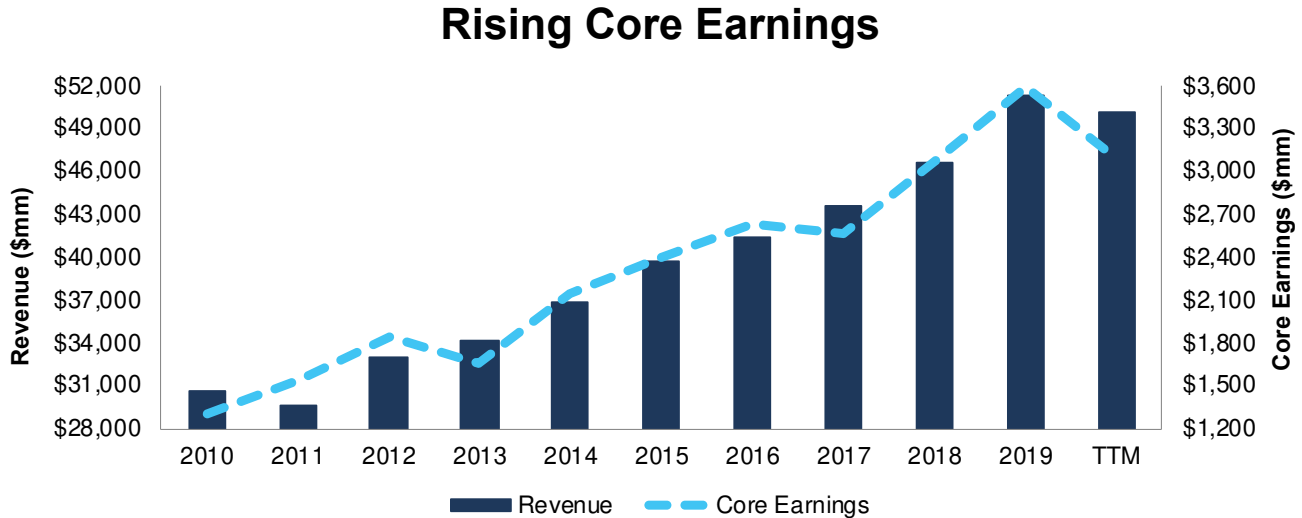
HCA Healthcare has grown its [core earnings](#)² by 11% compounded annually over the past five years and 12% compounded annually over the past decade. The firm improved its ROIC from 14% in 2009 to 16% in 2019. COVID-19-related disruptions to the firm’s business have brought its TTM ROIC lower to 14%. HCA Healthcare

² Our core earnings are a superior measure of profits, as demonstrated in [Core Earnings: New Data & Evidence](#) a paper by professors at Harvard Business School (HBS) & MIT Sloan. The paper empirically shows that our data is superior to “Operating Income After Depreciation” and “Income Before Special Items” from Compustat, owned by S&P Global (SPGI).



has also generated positive free cash flow (FCF) in each of the past 12 years. Over the past five years, the firm has generated \$14.6 billion (33% of market cap) in FCF and its TTM FCF of \$9.8 billion gives the firm a 12% FCF yield, which is much higher than the [Healthcare sector's FCF yield of -1%](#).

Figure 6: Revenue & Core Earnings Since 2010

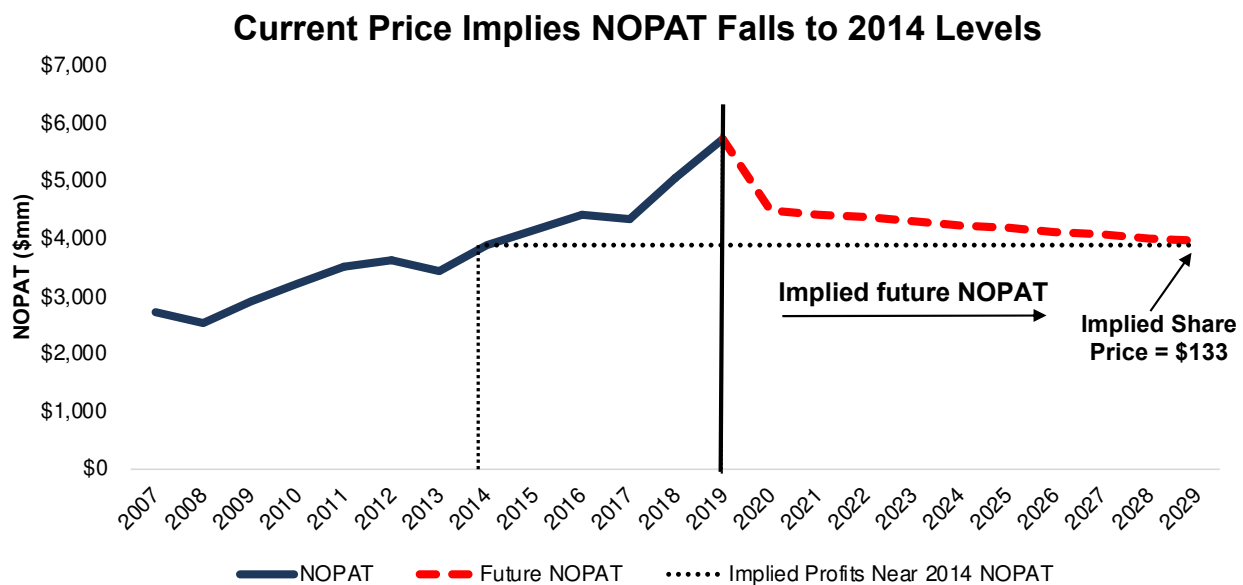


Sources: New Constructs, LLC and company filings

At its current price of \$133/share, HCA Healthcare has a price-to-economic book value (PEBV) ratio of 0.7. This ratio means the market expects HCA Healthcare's NOPAT to permanently decline by 30%. This expectation seems overly pessimistic for a firm that has grown NOPAT by 8% compounded annually over the past five years and 7% compounded annually over the past decade.

The current stock price implies HCA Healthcare's NOPAT margin falls to 9% (all-time low) and NOPAT falls by 4% compounded annually for the next decade. [See the math behind this reverse DCF scenario](#). In this scenario NOPAT falls to 2014 levels and its NOPAT in 2029 is still 31% below 2019 levels.

Figure 7: Current Price Implies NOPAT Falls 31% Below 2019 Levels



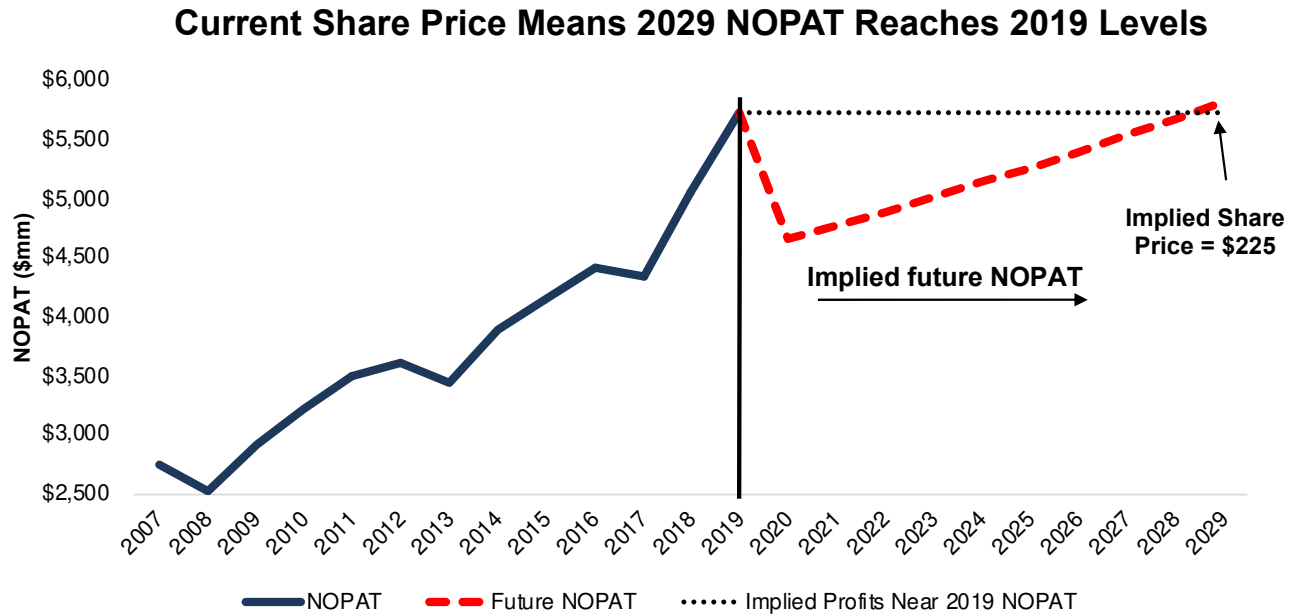
Sources: New Constructs, LLC and company filings



Big Upside Even If HCA Healthcare Grows NOPAT by Less Than 1% Compounded Annually

In a more optimistic scenario, where HCA Healthcare’s NOPAT margin falls to 9% (all-time low) and the firm grows NOPAT by less than 1% compounded annually for the next decade, the stock is worth \$225/share today – a 69% upside. [See the math behind this reverse DCF scenario](#). In this scenario NOPAT reaches 2019 levels in 2029.

Figure 8: Huge Upside With Minimal NOPAT Growth



Sources: New Constructs, LLC and company filings

Not All Holdings Are the Highest Quality

Given that none of QVAL’s assets are allocated to stocks with an Unattractive-or-worse rating, it is more difficult to find a stock that does not offer good risk/reward. However, not all stocks, such as The Timken Company (TKR: \$60/share) are as profitable as their reported earnings would have you believe. Timken is the only holding with a Neutral risk/reward rating and Miss [Earnings Distortion Score](#).

Over the TTM, Timken had over \$21 million in net [earnings distortion](#) that cause earnings to be overstated. Unusual income [hidden and reported](#) in Timken Company’s filings include:

- [\\$13 million](#) in other income – 2019 10-K
- [\\$2.1 million](#) in other income through 1H20 – 2Q20 10-Q in other income
- [\\$10.2 million](#) in non-service pension and other postretirement income – 2019 10-K

This unusual income is partially offset by non-operating expenses such as:

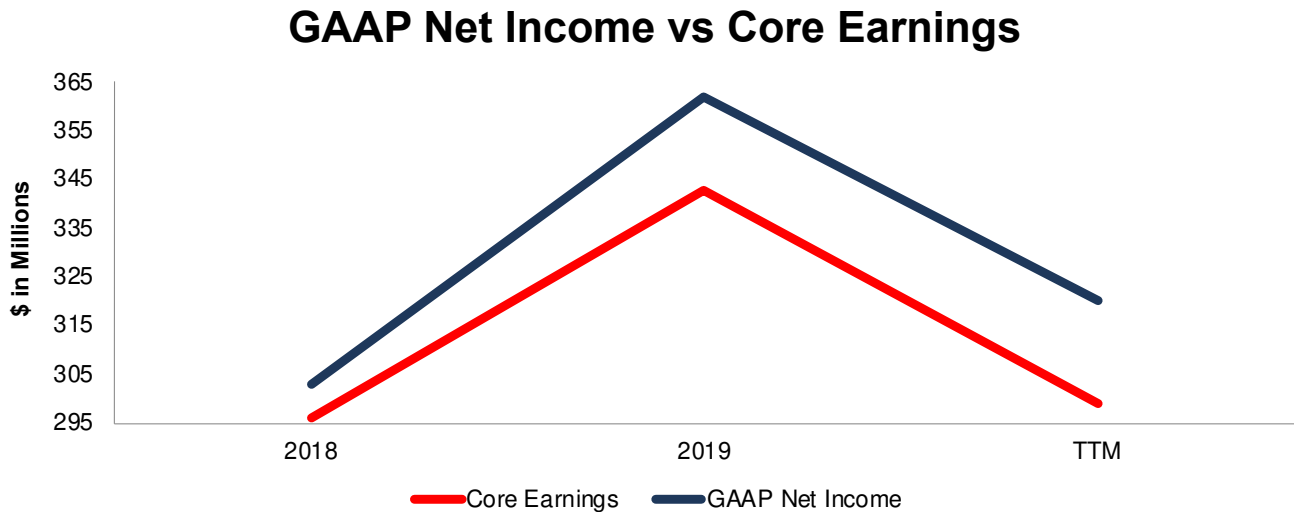
- \$6.6 million in severance and related benefit costs and exit costs
 - [\\$3.5 million](#) in 1Q20
 - [\\$3.1 million](#) in 2Q20
- [\\$6.8 million](#) in impairment and restructuring charges – 2019 10-K
- [\\$5.3 million](#) in non-service pension and other postretirement expense – 2Q20 10-Q
- [\\$1.6 million](#) in loss on sale of assets – 2Q20 10-Q

In addition, we made a \$12.7 million adjustment for income tax distortion. This adjustment normalizes reported income taxes by removing the impact of unusual items.

After removing earnings distortion, we find that Timken’s TTM core earnings of \$299 million are lower than GAAP net income of \$320 million, per Figure 9.



Figure 9: GAAP Net Income vs. Core Earnings Since 2018



Sources: New Constructs, LLC and company filings

While Timken’s stock has an Attractive PEBV ratio of 1.1, FCF yield of 5%, and market-implied GAP of just six years, there are better stocks, from an earnings-quality perspective, available in the market.

The Importance of Holdings Based Fund Analysis

Smart ETF (or fund) investing means analyzing the holdings of each ETF. Failure to do so is a failure to perform proper due diligence. Simply buying a mutual fund or ETF based on past performance [does not necessarily lead](#) to outperformance. Only through holdings-based analysis can one determine if an ETF is sticking to its stated methodology and is allocating to undervalued, high-quality stocks, as QVAL does.

However, most investors don’t realize they can [already](#) get the sophisticated fundamental research³ that [corrects market inefficiencies and generates alpha](#). Our [Robo-Analyst technology](#) analyzes the holdings of all 145 ETFs and mutual funds in the Mid Cap Value style and 7,000+ ETFs and mutual funds under coverage to avoid “[the danger within](#).” For reference, the number of holdings in these Mid Cap Value ETFs and mutual funds varies from just 31 stocks to 698 stocks in a given fund. Our diligence on holdings allows us to [cut through the noise](#) and find ETFs, like Alpha Architect Quantitative Value ETF, with a portfolio and methodology that suggests future performance will be strong.

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Disclosure: David Trainer, Kyle Guske II, and Matt Shuler receive no compensation to write about any specific stock, style, or theme.

Follow us on [Twitter](#), [Facebook](#), [LinkedIn](#), and [StockTwits](#) for real-time alerts on all our research.

³ Compare our analytics on a mega cap company to Bloomberg and Capital IQ’s (SPGI) analytics in the [detailed appendix of this paper](#).



Footnotes adjustments matter. We are the ONLY source.

We provide ratings, models, reports & screeners on U.S. 3,000 stocks, 700 ETFs and 7,000 mutual funds.

[HBS & MIT Sloan research](#) reveals that:

- **Markets are inefficiently assessing earnings because no one reads the footnotes.**
- **Corporate managers hide gains/losses in footnotes to manage earnings.**
- **Our technology brings the material footnotes data to market for the first time ever.**

Combining human expertise with NLP/ML/AI technologies ([featured by Harvard Business School](#)), we shine a light in the dark corners (e.g. footnotes) of hundreds of thousands of financial filings to unearth critical details.

The HBS & MIT Sloan paper, [Core Earnings: New Data and Evidence](#), shows how our superior data drives uniquely comprehensive and independent debt and equity research.

This [paper](#) compares our analytics on a mega cap company to other major providers. The Appendix details exactly how we stack up.

Learn [more](#).

Quotes from HBS & MIT Sloan professors on our research:

Get better research:

“...the NC dataset provides a novel opportunity to study the properties of non-operating items disclosed in 10-Ks, and to examine the extent to which the market impounds their implications.” – page 20

Pick better stocks:

“Trading strategies that exploit cross-sectional differences in firms’ transitory earnings produce abnormal returns of 7-to-10% per year.” – Abstract

Avoid losses from using other firms’ data:

“...many of the income-statement-relevant quantitative disclosures collected by NC do not appear to be easily identifiable in Compustat...” – page 14

Build better models:

“Core Earnings [calculated using New Constructs’ novel dataset] provides predictive power for various measures of one-year-ahead performance...that is incremental to their current-period counterparts.” – page 4

Exploit market inefficiencies:

“These results ... suggest that the adjustments made by analysts and Compustat to better capture core earnings are incomplete. Moreover, the non-core items identified by NC produce a measure of core earnings that is incremental to alternative measures of operating performance in predicting an array of future income measures.” – page 26

Fulfill fiduciary duties:

“An appropriate measure of accounting performance for purposes of forecasting future performance requires detailed analysis of all quantitative performance disclosures detailed in the annual report, including those reported only in the footnotes and in the MD&A.” – page 33-34



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