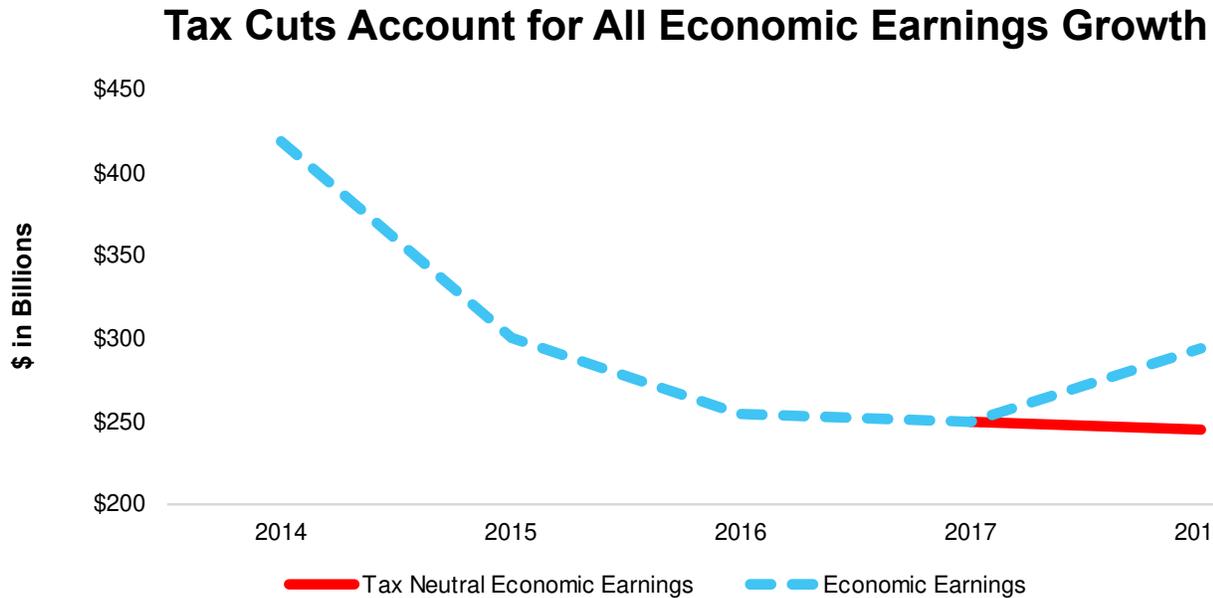




Big Tech Still Dominates Economic Earnings Growth

Publicly traded U.S. companies¹ grew reported earnings by 23% in 2018, but [economic earnings](#) – the true cash flows of the business – tell a much different story. On the surface, economic earnings grew by 18%. When we [remove the impact of the tax cut](#), they actually declined by 2%, as shown in Figure 1.

Figure 1: Economic Earnings vs. Tax Neutral Economic Earnings



Sources: New Constructs, LLC and company filings.

GAAP earnings don't just mislead investors about the amount of growth in 2018, they also present a misleading picture of the breadth of earnings growth. 8 out of 11 sectors reported rising earnings in 2018. Meanwhile – even with the benefit of the tax cut – only two sectors significantly improved on an economic earnings basis.

Top-Loaded Tech

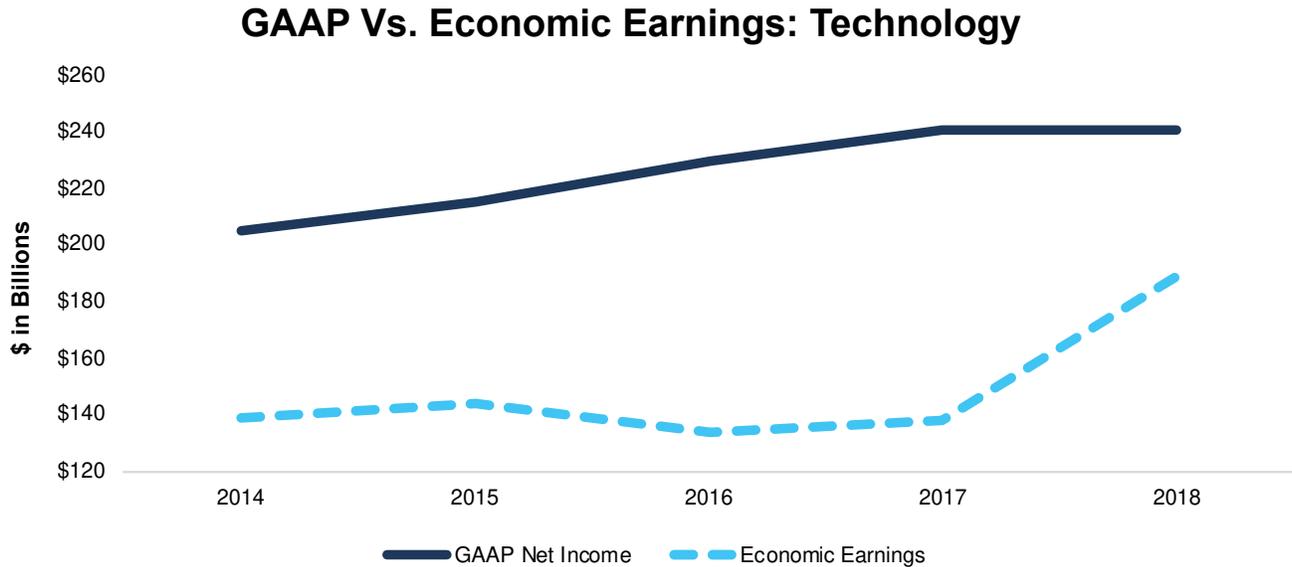
Economic earnings in the Technology and Energy sectors improved by ~\$50 billion in 2018. The other nine sectors combined saw economic earnings decline by ~\$50 billion.

While the economic earnings growth in the Technology and Energy sectors looks positive, it comes with significant caveats. In the Technology sector, all of the economic earnings growth in 2018 came from 25 (out of 430) companies. Just four companies – Micron (MU), Apple (AAPL), Microsoft (MSFT), and Facebook (FB) – accounted for over 50% of the sector's economic earnings growth.

¹ With a combined market cap of ~\$35 trillion, the ~2,700 companies for which we have data account for the vast majority of the U.S. equity market as well as a handful of international companies.



Figure 2: Economic vs. GAAP Earnings: Technology



Sources: New Constructs, LLC and company filings.

GAAP earnings don't capture the tech sector's economic earnings growth in 2018 due to the impact of the Tax Cuts and Jobs Act. For example, Microsoft's 2018 GAAP earnings were negatively impacted by a [\\$13.7 billion](#) one-time charge due to tax reform and fell by \$4.6 billion. Meanwhile, Microsoft's economic earnings – which we adjust for all non-recurring charges – increased by \$7.3 billion in 2018.

Energy Sector Rebounds

The economic earnings growth in the Energy sector was more broad-based than the Technology sector, but it also comes with plenty of caveats.

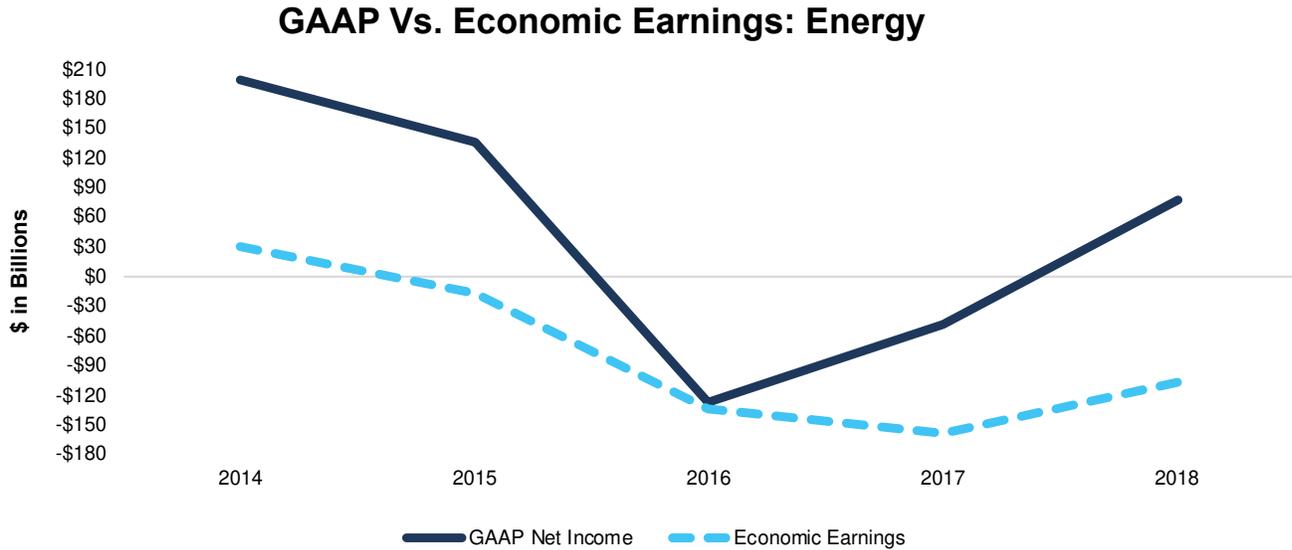
For one, the improvement in the Energy sector was due primarily to a [28% increase](#) in the average price of oil in 2018. With oil prices having fallen to a lower level to start 2019, that growth may be difficult to sustain.

On the positive side, companies in the sector appear to be focusing more on capital allocation. [Pressure from investors](#) has led to major companies in the industry, such as Occidental Petroleum (OXY), adding return on capital metrics to their executive compensation plans.

Despite these encouraging signs, economic earnings in the Energy sector remain negative. Companies in the sector combined for economic losses of \$108 billion in 2018, as shown in Figure 3.



Figure 3: Economic vs. GAAP Earnings: Energy



Sources: New Constructs, LLC and company filings.

The Energy sector appears to be rebounding off its lows, but its positive GAAP earnings are misleading. The sector still has a way to go to break even on an economic basis.

Why Our Adjustments Matter

The disconnect between accounting and economic earnings in the market stems from two primary issues:

1. **Income statement manipulation:** managers exploit [accounting loopholes](#) to overstate accounting profits. GAAP net income has grown 6% compounded annually over the past four years for the companies in Figure 1, but net operating profit after tax ([NOPAT](#)) is up only 5% compounded annually over that timeframe (and only 4% annually without the tax cut).
2. **GAAP earnings overlook balance sheets and the cost of equity capital.** Over the past four years, the balance sheets, i.e. [invested capital](#) of the companies in Figure 1 have increased by 6% compounded annually. Their weighted average cost of capital ([WACC](#)) is up from 5.7% to 6.5% over the same time.

Economic earnings equal $NOPAT - (WACC * Invested\ Capital)$. When NOPAT grows slower than net income while invested capital and WACC grow faster, economic earnings decline. Figure 4 details the adjustments we make to calculate the current NOPAT and invested capital values for the whole market.²

² Details on the adjustments for all 11 sectors can be found in the Appendix



Figure 4: Reconciling GAAP Earnings with Economic Earnings: NOPAT and Invested Capital

GAAP Earnings Adjustments	\$ (in Billions)	Balance Sheet Adjustments	\$ (in Billions)
Net Income	\$1,648	Total Assets	\$64,936
Hidden Non-Operating Items	\$109	Non-Interest Bearing Current Liabilities	(\$41,183)
Reported Non-Operating Items	\$422	Reported Net Assets	\$23,753
Change in Reserves	(\$3)	Short-Term Debt	\$818
Implied Interest for Off-Balance Sheet Debt	\$58	Excess Cash	(\$2,217)
Non-Operating Tax Adjustment	(\$222)	Total Reserves	\$270
After Tax Non-Operating Expense	\$46	Unconsolidated Subsidiaries	\$7
NOPAT	\$2,032	Discontinued Operations	(\$143)
		Deferred Compensation	(\$18)
		Deferred Taxes	(\$472)
		Over Funded Pensions	(\$38)
		Off-Balance Sheet Operating Leases	\$1,131
		Accumulated Unrecorded Goodwill	\$730
		Accumulated Goodwill Amortization	\$89
		Accumulated Asset Write-Downs	\$2,575
		Other Comprehensive Income	\$986
		Invested Capital	\$27,436
		Average Invested Capital	\$26,712

Sources: New Constructs, LLC and company filings.

Our biggest adjustment for NOPAT/Income Statement is to strip out \$422 billion in “Reported” [non-operating items](#). These gains/losses are reported on the income statement, e.g. interest expense, preferred dividends, and minority interest income. Even more impactful, according to research from [Ernst & Young](#), are the “Hidden” [non-operating items](#), which amount to \$109 billion of gains/losses that investors can find only in the footnotes.

For the balance sheet, our biggest adjustment is to add back \$2.6 trillion in [accumulated asset write-downs](#) that companies tried to move off their balance sheet. We collect hundreds of unusual write-down charges over many years of history to derive accumulated write-downs. The purpose of this adjustment is to hold companies accountable for all the capital invested in the business over its life.

Only by making these adjustments can investors reverse accounting distortions and reveal true profitability³.

Figure 5 provides a quick summary of the sectors and how much their accounting income is overstated. Figures 6-14 compare economic earnings to GAAP net income for each sector.

³ Ernst & Young’s recent white paper “[Getting ROIC Right](#)” proves the superiority of our measure of NOPAT, invested capital and ROIC along with other financial ratios.



Figure 5: TTM Economic Vs. GAAP Earnings: All Sectors (\$ in billions)

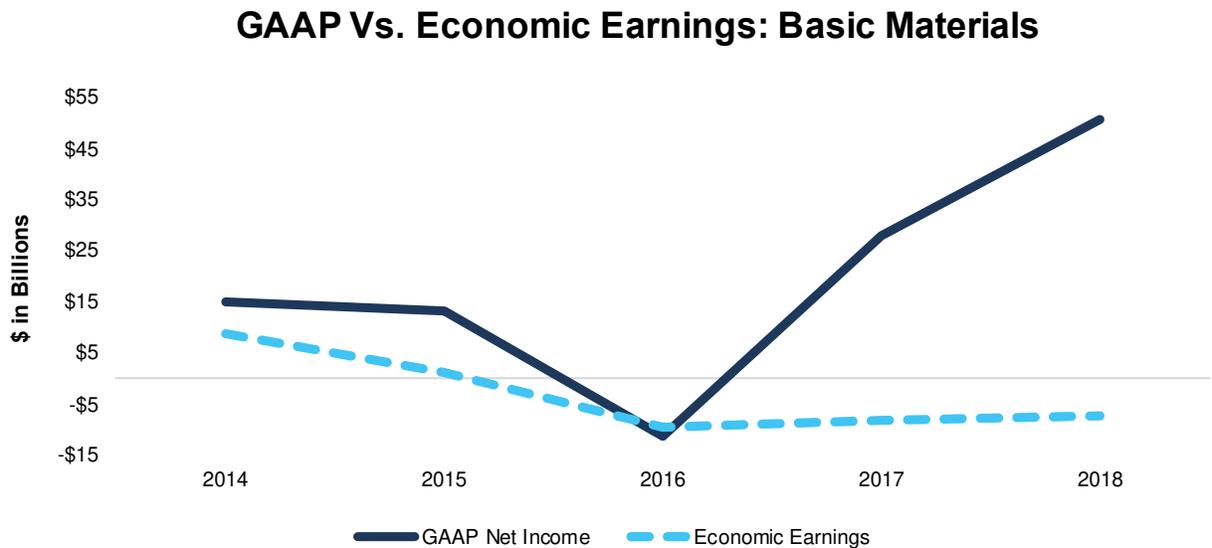
Sector	GAAP Net Income	Economic Earnings	Most Overstated Earnings
Financials	\$297	(\$31)	(\$328)
Energy	\$77	(\$107)	(\$185)
Consumer Cyclicals	\$220	\$84	(\$136)
Industrials	\$155	\$38	(\$118)
Telecom Services	\$84	\$6	(\$78)
Real Estate	\$62	\$0	(\$62)
Basic Materials	\$51	(\$7)	(\$58)
Technology	\$241	\$189	(\$52)
Consumer Non-cyclicals	\$109	\$62	(\$47)
Healthcare	\$88	\$44	(\$44)
Utilities	\$35	(\$2)	(\$37)

Sources: New Constructs, LLC and company filings.

Basic Materials Sector

GAAP earnings show a large rebound after the commodities rout caused significant [write-downs](#) in 2015-2016. Economic earnings show that this sector still has a long road ahead to recovery. DowDuPont Inc. (DWD) had the largest discrepancy between reported net income and economic earnings. GAAP net income of \$3.8 billion vastly overstated the firm’s profitability while economic earnings, at -\$3.6 billion reveal significant losses. We will be curious to see the breakdown of how these losses are allocated after the split between Dow and DuPont.

Figure 6: Economic vs. GAAP Earnings: Basic Materials



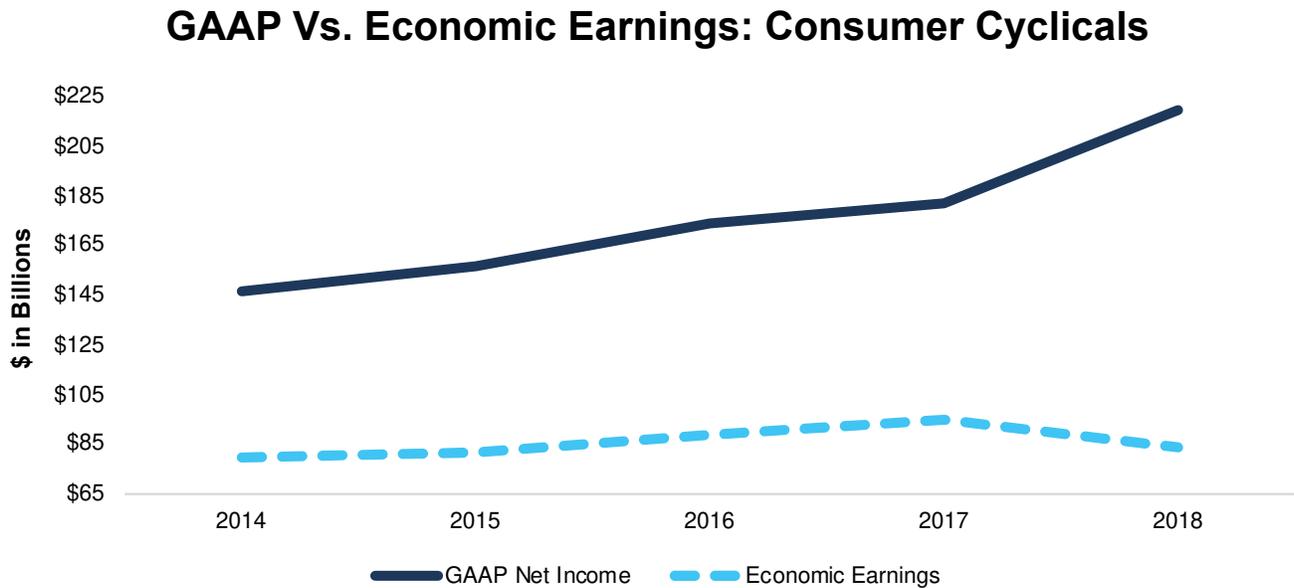
Sources: New Constructs, LLC and company filings.



Consumer Cyclical Sector

Part of the significant gap between GAAP net income and economic earnings for the Consumer Cyclical sector can be explained by [off-balance sheet operating leases](#) that constitute a hidden ([although not for long](#)) form of invested capital. Operating leases account for 9% of all invested capital in the sector, compared to just 4% for the whole market. Return on invested capital ([ROIC](#)) stayed constant at 9% in 2018, so the decline in economic earnings comes entirely from rising WACC.

Figure 7: Economic vs. GAAP Earnings: Consumer Cyclical



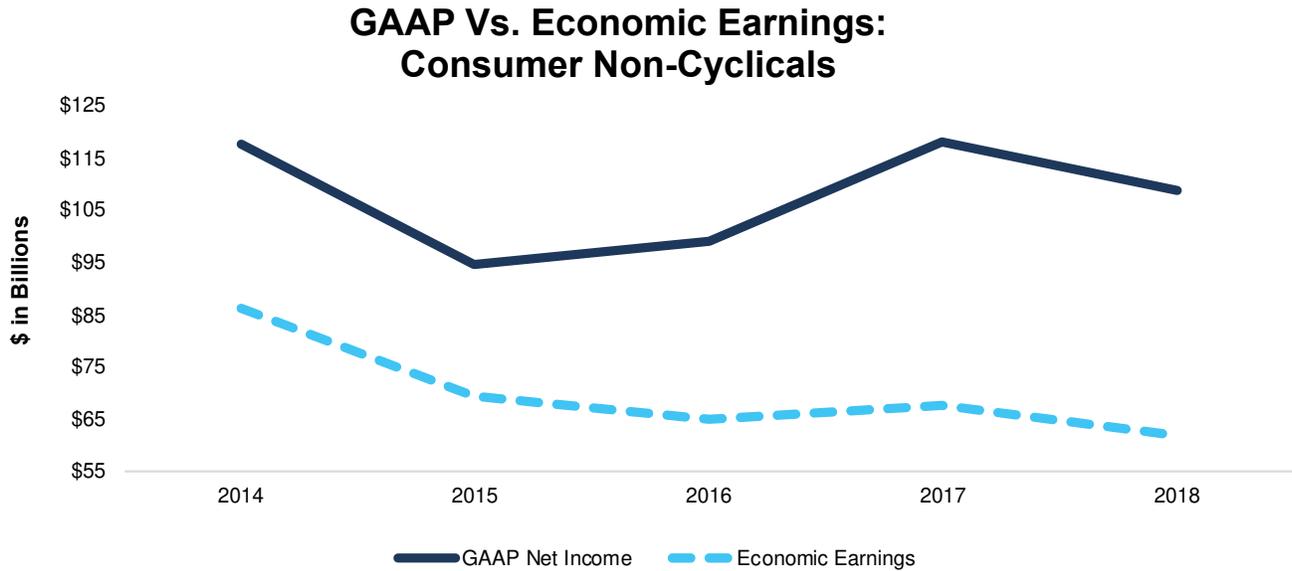
Sources: New Constructs, LLC and company filings.

Consumer Non-Cyclicals Sector

Unlike with other sectors, GAAP and economic earnings tend to move in the same direction for the Consumer Non-Cyclicals sector. The major write-downs at Kraft Heinz (KHC) – and the declining economic earnings at competitor [Mondelez](#) (MDLZ) – suggest that some of the giants of this sector are seeing their competitive advantage decline.



Figure 8: Economic vs. GAAP Earnings: Consumer Non-Cyclicals

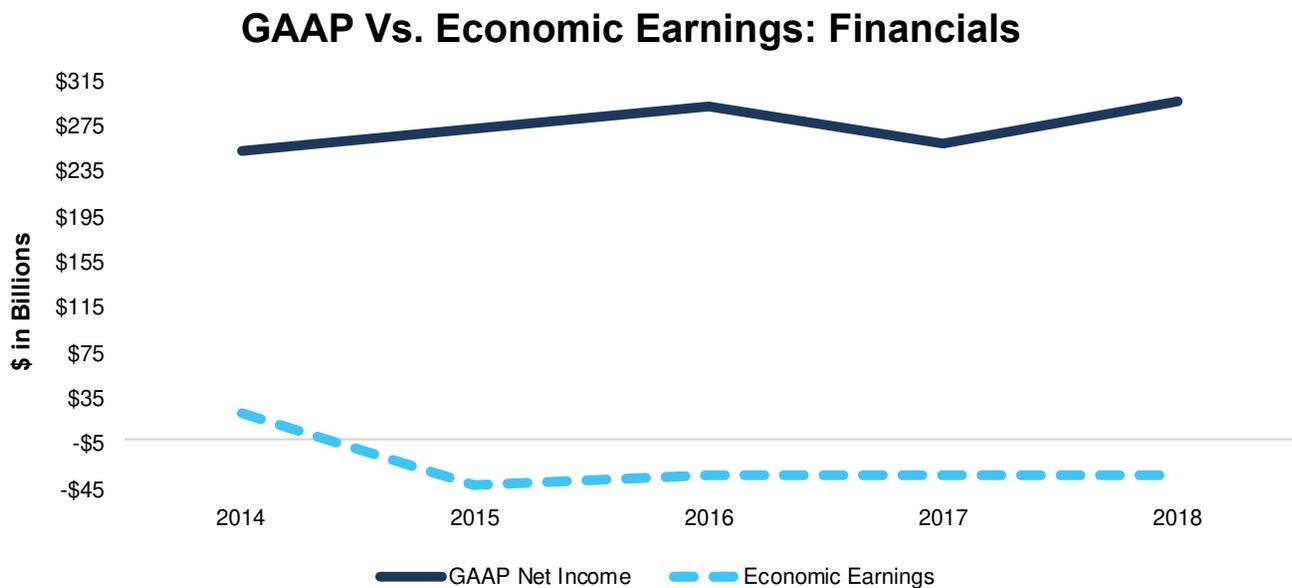


Sources: New Constructs, LLC and company filings.

Financials Sector

The Financials sector has only earned positive economic earnings on aggregate in one of the past five years. Economic losses shrunk slightly in 2018, from -\$32 to -\$31 million, but GAAP net income grew by 14%. The market seems to recognize that GAAP earnings in this sector are an illusion, as Financial stocks are much cheaper than the rest of the market. On aggregate, the sector has a price to economic book value ([PEBV](#)) of 1.1 compared to 1.6 for the total market.

Figure 9: Economic vs. GAAP Earnings: Financials



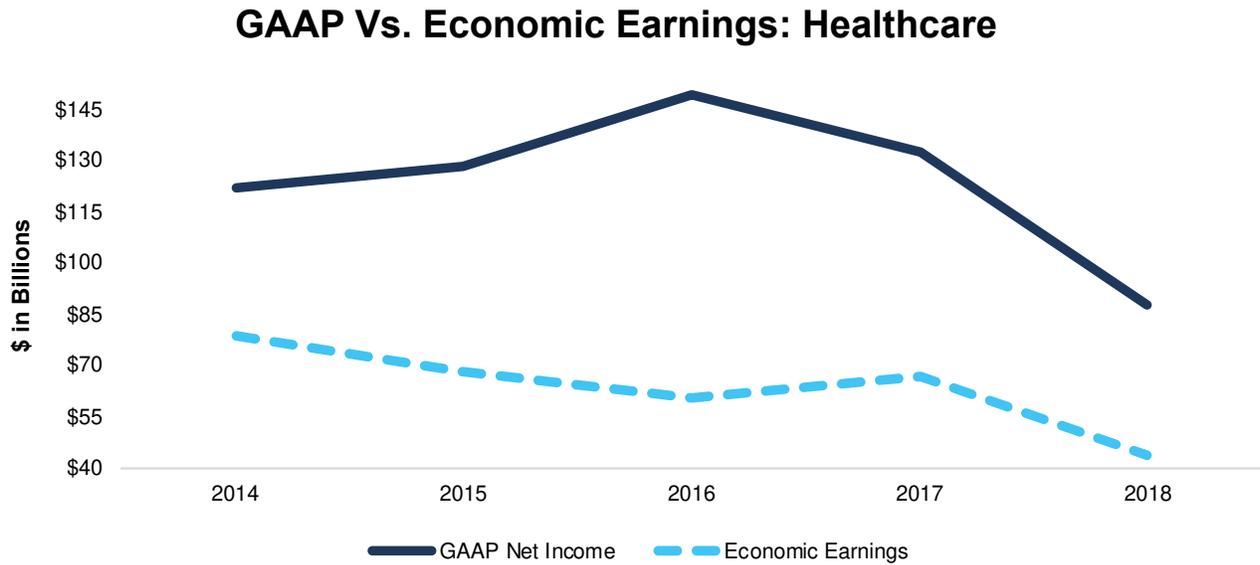
Sources: New Constructs, LLC and company filings.



Healthcare Sector

GAAP and economic earnings moved in-line for the Healthcare sector in 2018 as both fell by ~35%. Combined with the continued threat of regulatory overhauls and pricing pressure, these falling earnings represent a significant cause for concern.

Figure 10: Economic vs. GAAP Earnings: Healthcare

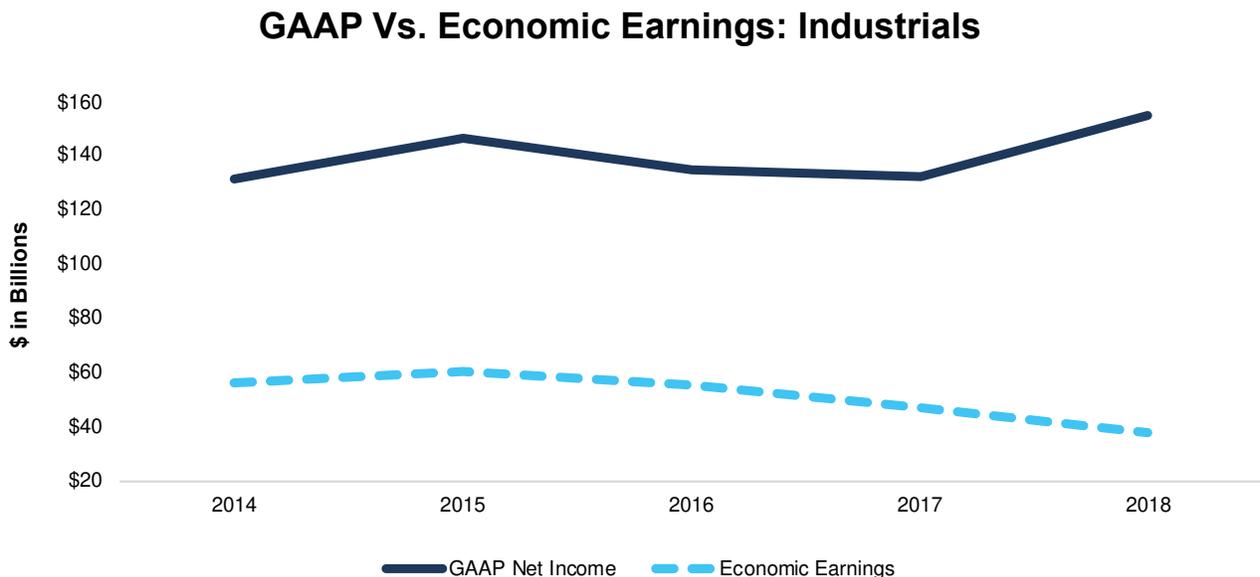


Sources: New Constructs, LLC and company filings.

Industrials Sector

Few sectors have as wide a divergence as the Industrials sector. GAAP earnings grew by 17% while economic earnings declined 21% in 2018. M&A activity accounts for some of this discrepancy. We [highlighted recently](#) how United Technologies' (UTX) acquisition of Rockwell Collins helped it grow reported earnings by 14% but led to a 16% decline in economic earnings.

Figure 11: Economic vs. GAAP Earnings: Industrials



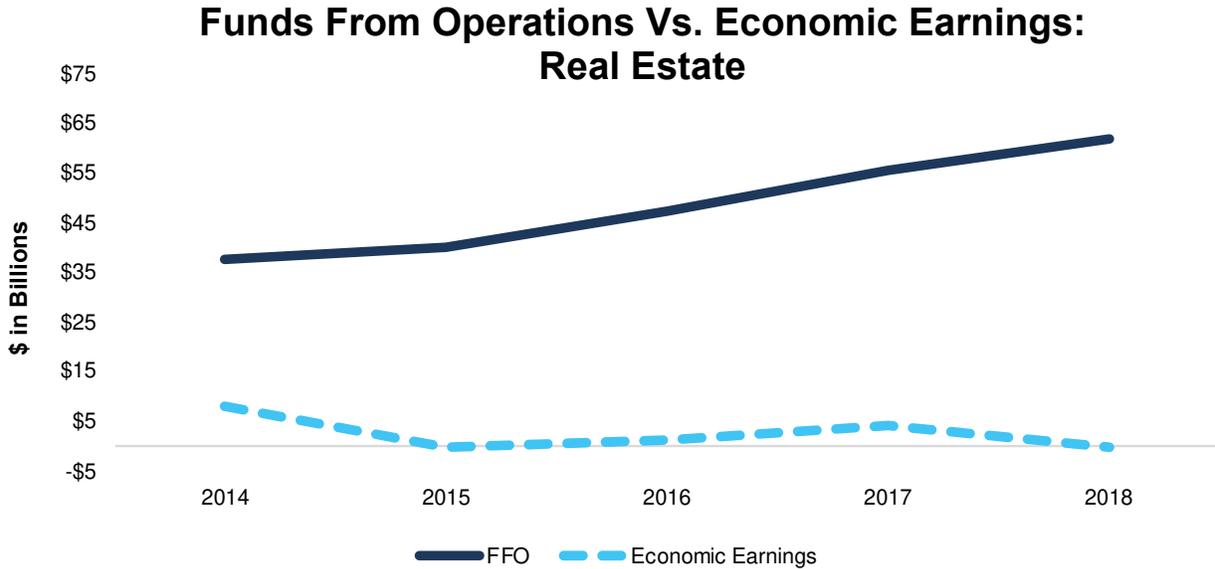
Sources: New Constructs, LLC and company filings.



Real Estate Sector

The Real Estate sector has just barely scraped out positive economic earnings over the past five years while fund from operations (FFO) grew by 64% between 2014-2018. The divergence between reported and economic earnings goes a long way to explain why Real Estate is our [worst-rated sector](#) for ETFs and mutual funds.

Figure 12: Economic Earnings vs. FFO: Real Estate

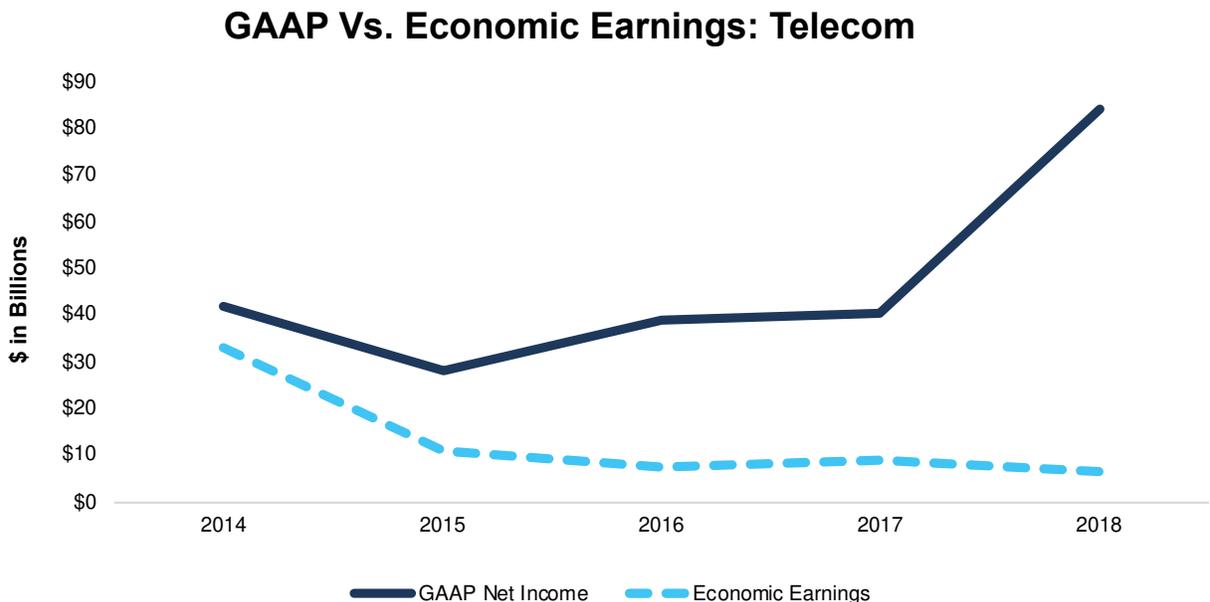


Sources: New Constructs, LLC and company filings.

Telecom Sector

The Telecom sector earns its reputation as an oligopolistic industry. Three large companies in the industry – Verizon (VZ), China Mobile (CHL) and Nippon Telegraph and Telephone (NTTY) – earned \$24.6 billion in positive economic earnings last year. The other 38 companies had a combined economic loss of \$18 billion.

Figure 13: Economic vs. GAAP Earnings: Telecom



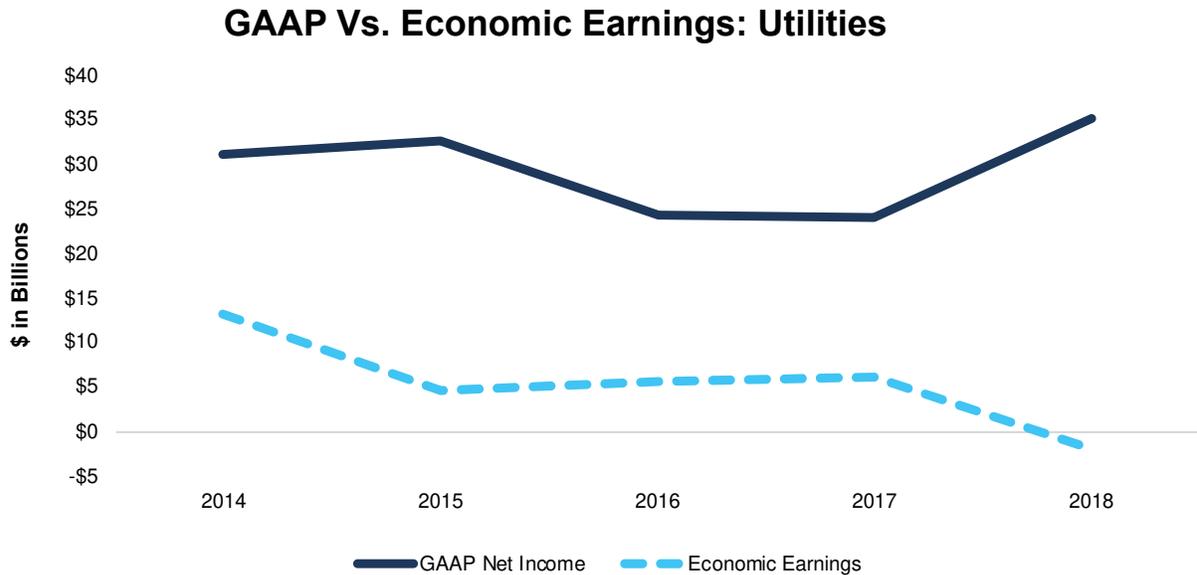
Sources: New Constructs, LLC and company filings.



Utilities Sector

The Utilities sector is another sector with GAAP earnings growth in the double digits even as economic earnings turn negative.

Figure 13: Economic vs. GAAP Earnings: Utilities



Sources: New Constructs, LLC and company filings.

The Need for Diligence Has Arrived

The breadth of the decline in economic earnings should give investors pause. Even with tax cuts providing a tailwind, only Energy companies and a handful of big Technology firms managed to grow real profits last year.

Now more than ever investors need unconflicted and comprehensive fundamental research. Only by analyzing the footnotes and MD&A can one find companies that buck the trend of rising GAAP earnings and falling economic earnings. These are the stocks that will [hold up](#) when this bull market finally does come to an end.

To see our Sector ratings and reports, click [here](#).

This article originally published on [April 16, 2019](#).

Disclosure: David Trainer and Sam McBride 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.



Appendix

Figure I: Aggregate Adjustments for NOPAT and Invested Capital: Basic Materials

GAAP Earnings Adjustments		Balance Sheet Adjustments	
\$ (in Billions)		\$ (in Billions)	
Net Income	\$51	Total Assets	\$1,120
Hidden Non-Operating Items	\$3	Non-Interest Bearing Current Liabilities	(\$162)
Reported Non-Operating Items	\$25	Reported Net Assets	\$957
Change in Reserves	\$1	Short-Term Debt	\$20
Implied Interest for Off-Balance Sheet Debt	\$1	Excess Cash	(\$58)
Non-Operating Tax Adjustment	(\$15)	Total Reserves	\$6
After Tax Non-Operating Expense	\$1	Unconsolidated Subsidiaries	\$0
NOPAT	\$67	Discontinued Operations	(\$7)
		Deferred Compensation	(\$1)
		Deferred Taxes	(\$20)
		Over Funded Pensions	(\$0)
		Off-Balance Sheet Operating Leases	\$20
		Accumulated Unrecorded Goodwill	\$9
		Accumulated Goodwill Amortization	\$4
		Accumulated Asset Write-Downs	\$199
		Other Comprehensive Income	\$77
		Invested Capital	\$1,206
		Average Invested Capital	\$1,118

Sources: New Constructs, LLC and company filings.



Figure II: Aggregate Adjustments for NOPAT and Invested Capital: Consumer Cyclical

GAAP Earnings Adjustments		\$ (in Billions)	
Net Income		\$220	
Hidden Non-Operating Items		\$10	
Reported Non-Operating Items		\$51	
Change in Reserves		\$1	
Implied Interest for Off-Balance Sheet Debt		\$15	
Non-Operating Tax Adjustment		(\$52)	
After Tax Non-Operating Expense		\$11	
NOPAT		\$255	

Balance Sheet Adjustments		\$ (in Billions)	
Total Assets		\$4,133	
Non-Interest Bearing Current Liabilities		(\$1,458)	
Reported Net Assets		\$2,676	
Short-Term Debt		\$128	
Excess Cash		(\$360)	
Total Reserves		\$11	
Unconsolidated Subsidiaries		\$1	
Discontinued Operations		(\$6)	
Deferred Compensation		(\$3)	
Deferred Taxes		(\$77)	
Over Funded Pensions		(\$1)	
Off-Balance Sheet Operating Leases		\$287	
Accumulated Unrecorded Goodwill		\$19	
Accumulated Goodwill Amortization		\$10	
Accumulated Asset Write-Downs		\$280	
Other Comprehensive Income		\$66	
Invested Capital		\$3,028	
Average Invested Capital		\$2,949	

Sources: New Constructs, LLC and company filings.



Figure III: Aggregate Adjustments for NOPAT and Invested Capital: Consumer Non-Cyclicals

GAAP Earnings Adjustments	\$ (in Billions)	Balance Sheet Adjustments	\$ (in Billions)
Net Income	\$109	Total Assets	\$1,657
Hidden Non-Operating Items	\$8	Non-Interest Bearing Current Liabilities	(\$474)
Reported Non-Operating Items	\$34	Reported Net Assets	\$1,183
Change in Reserves	\$0	Short-Term Debt	\$84
Implied Interest for Off-Balance Sheet Debt	\$4	Excess Cash	(\$79)
Non-Operating Tax Adjustment	(\$23)	Total Reserves	\$10
After Tax Non-Operating Expense	\$1	Unconsolidated Subsidiaries	\$3
NOPAT	\$135	Discontinued Operations	(\$8)
		Deferred Compensation	(\$1)
		Deferred Taxes	(\$8)
		Over Funded Pensions	(\$2)
		Off-Balance Sheet Operating Leases	\$85
		Accumulated Unrecorded Goodwill	\$43
		Accumulated Goodwill Amortization	\$8
		Accumulated Asset Write-Downs	\$82
		Other Comprehensive Income	\$126
		Invested Capital	\$1,521
		Average Invested Capital	\$1,497

Sources: New Constructs, LLC and company filings.



Figure IV: Aggregate Adjustments for NOPAT and Invested Capital: Energy

GAAP Earnings Adjustments	\$ (in Billions)	Balance Sheet Adjustments	\$ (in Billions)
Net Income	\$77	Total Assets	\$3,601
Hidden Non-Operating Items	\$22	Non-Interest Bearing Current Liabilities	(\$565)
Reported Non-Operating Items	\$63	Reported Net Assets	\$3,035
Change in Reserves	\$7	Short-Term Debt	\$114
Implied Interest for Off-Balance Sheet Debt	\$7	Excess Cash	(\$156)
Non-Operating Tax Adjustment	(\$48)	Total Reserves	\$29
After Tax Non-Operating Expense	\$12	Unconsolidated Subsidiaries	\$1
NOPAT	\$139	Discontinued Operations	(\$12)
		Deferred Compensation	(\$0)
		Deferred Taxes	(\$48)
		Over Funded Pensions	(\$0)
		Off-Balance Sheet Operating Leases	\$138
		Accumulated Unrecorded Goodwill	\$104
		Accumulated Goodwill Amortization	\$2
		Accumulated Asset Write-Downs	\$672
		Other Comprehensive Income	\$153
		Invested Capital	\$4,029
		Average Invested Capital	\$3,981

Sources: New Constructs, LLC and company filings.



Figure V: Aggregate Adjustments for NOPAT and Invested Capital: Financials

GAAP Earnings Adjustments	\$ (in Billions)	Balance Sheet Adjustments	\$ (in Billions)
Net Income	\$297	Total Assets	\$39,756
Hidden Non-Operating Items	\$9	Non-Interest Bearing Current Liabilities	(\$34,682)
Reported Non-Operating Items	\$13	Reported Net Assets	\$5,074
Change in Reserves	(\$1)	Short-Term Debt	\$6
Implied Interest for Off-Balance Sheet Debt	\$7	Excess Cash	(\$38)
Non-Operating Tax Adjustment	\$1	Total Reserves	\$198
After Tax Non-Operating Expense	\$42	Unconsolidated Subsidiaries	\$0
NOPAT	\$368	Discontinued Operations	(\$218)
		Deferred Compensation	(\$1)
		Deferred Taxes	(\$97)
		Over Funded Pensions	(\$31)
		Off-Balance Sheet Operating Leases	\$137
		Accumulated Unrecorded Goodwill	\$184
		Accumulated Goodwill Amortization	\$9
		Accumulated Asset Write-Downs	\$201
		Other Comprehensive Income	(\$19)
		Invested Capital	\$5,405
		Average Invested Capital	\$5,282

Sources: New Constructs, LLC and company filings.



Figure VI: Aggregate Adjustments for NOPAT and Invested Capital: Healthcare

GAAP Earnings Adjustments		Balance Sheet Adjustments	
\$ (in Billions)		\$ (in Billions)	
Net Income	\$88	Total Assets	\$2,860
Hidden Non-Operating Items	\$18	Non-Interest Bearing Current Liabilities	(\$615)
Reported Non-Operating Items	\$81	Reported Net Assets	\$2,245
Change in Reserves	\$0	Short-Term Debt	\$91
Implied Interest for Off-Balance Sheet Debt	\$4	Excess Cash	(\$301)
Non-Operating Tax Adjustment	(\$15)	Total Reserves	\$2
After Tax Non-Operating Expense	\$3	Unconsolidated Subsidiaries	\$0
NOPAT	\$179	Discontinued Operations	(\$9)
		Deferred Compensation	(\$2)
		Deferred Taxes	(\$41)
		Over Funded Pensions	(\$0)
		Off-Balance Sheet Operating Leases	\$71
		Accumulated Unrecorded Goodwill	\$142
		Accumulated Goodwill Amortization	\$9
		Accumulated Asset Write-Downs	\$243
		Other Comprehensive Income	\$65
		Invested Capital	\$2,514
		Average Invested Capital	\$2,469

Sources: New Constructs, LLC and company filings.



Figure VII: Aggregate Adjustments for NOPAT and Invested Capital: Industrials

GAAP Earnings Adjustments	\$ (in Billions)	Balance Sheet Adjustments	\$ (in Billions)
Net Income	\$155	Total Assets	\$3,062
Hidden Non-Operating Items	\$17	Non-Interest Bearing Current Liabilities	(\$925)
Reported Non-Operating Items	\$44	Reported Net Assets	\$2,137
Change in Reserves	\$0	Short-Term Debt	\$82
Implied Interest for Off-Balance Sheet Debt	\$7	Excess Cash	(\$179)
Non-Operating Tax Adjustment	(\$36)	Total Reserves	\$14
After Tax Non-Operating Expense	(\$1)	Unconsolidated Subsidiaries	\$1
NOPAT	\$186	Discontinued Operations	(\$13)
		Deferred Compensation	(\$3)
		Deferred Taxes	(\$39)
		Over Funded Pensions	(\$2)
		Off-Balance Sheet Operating Leases	\$132
		Accumulated Unrecorded Goodwill	\$41
		Accumulated Goodwill Amortization	\$25
		Accumulated Asset Write-Downs	\$189
		Other Comprehensive Income	\$162
		Invested Capital	\$2,546
		Average Invested Capital	\$2,467

Sources: New Constructs, LLC and company filings.



Figure VIII: Aggregate Adjustments for NOPAT and Invested Capital: Real Estate

GAAP Earnings Adjustments		\$ (in Billions)	
Net Income		\$45	
Hidden Non-Operating Items		(\$1)	
Reported Non-Operating Items		\$10	
Change in Reserves		\$0	
Implied Interest for Off-Balance Sheet Debt		\$2	
Non-Operating Tax Adjustment		(\$4)	
After Tax Non-Operating Expense		\$3	
NOPAT		\$46	

Balance Sheet Adjustments		\$ (in Billions)	
Total Assets		\$1,403	
Non-Interest Bearing Current Liabilities		(\$482)	
Reported Net Assets		\$921	
Short-Term Debt		\$4	
Excess Cash		(\$23)	
Total Reserves		\$0	
Unconsolidated Subsidiaries		\$0	
Discontinued Operations		(\$0)	
Deferred Compensation		(\$1)	
Deferred Taxes		(\$1)	
Over Funded Pensions		(\$0)	
Off-Balance Sheet Operating Leases		\$31	
Accumulated Unrecorded Goodwill		\$0	
Accumulated Goodwill Amortization		\$1	
Accumulated Asset Write-Downs		\$26	
Other Comprehensive Income		\$6	
Invested Capital		\$964	
Average Invested Capital		\$920	

Sources: New Constructs, LLC and company filings.



Figure IX: Aggregate Adjustments for NOPAT and Invested Capital: Technology

GAAP Earnings Adjustments	\$ (in Billions)	Balance Sheet Adjustments	\$ (in Billions)
Net Income	\$241	Total Assets	\$3,544
Hidden Non-Operating Items	\$13	Non-Interest Bearing Current Liabilities	(\$886)
Reported Non-Operating Items	\$16	Reported Net Assets	\$2,658
Change in Reserves	(\$0)	Short-Term Debt	\$96
Implied Interest for Off-Balance Sheet Debt	\$5	Excess Cash	(\$1,101)
Non-Operating Tax Adjustment	\$56	Total Reserves	\$3
After Tax Non-Operating Expense	\$2	Unconsolidated Subsidiaries	\$0
NOPAT	\$333	Discontinued Operations	(\$9)
		Deferred Compensation	(\$1)
		Deferred Taxes	(\$60)
		Over Funded Pensions	(\$1)
		Off-Balance Sheet Operating Leases	\$91
		Accumulated Unrecorded Goodwill	\$70
		Accumulated Goodwill Amortization	\$20
		Accumulated Asset Write-Downs	\$329
		Other Comprehensive Income	\$68
		Invested Capital	\$2,158
		Average Invested Capital	\$2,080

Sources: New Constructs, LLC and company filings.



Figure X: Aggregate Adjustments for NOPAT and Invested Capital: Telecom

GAAP Earnings Adjustments		\$ (in Billions)	
Net Income		\$84	
Hidden Non-Operating Items		\$4	
Reported Non-Operating Items		\$38	
Change in Reserves		(\$0)	
Implied Interest for Off-Balance Sheet Debt		\$4	
Non-Operating Tax Adjustment		(\$61)	
After Tax Non-Operating Expense		\$4	
NOPAT		\$73	

Balance Sheet Adjustments		\$ (in Billions)	
Total Assets		\$1,524	
Non-Interest Bearing Current Liabilities		(\$263)	
Reported Net Assets		\$1,261	
Short-Term Debt		\$76	
Excess Cash		(\$73)	
Total Reserves		\$0	
Unconsolidated Subsidiaries		\$0	
Discontinued Operations		(\$1)	
Deferred Compensation		(\$0)	
Deferred Taxes		(\$26)	
Over Funded Pensions		(\$0)	
Off-Balance Sheet Operating Leases		\$84	
Accumulated Unrecorded Goodwill		\$117	
Accumulated Goodwill Amortization		\$1	
Accumulated Asset Write-Downs		\$85	
Other Comprehensive Income		\$26	
Invested Capital		\$1,551	
Average Invested Capital		\$1,500	

Sources: New Constructs, LLC and company filings.



Figure XI: Aggregate Adjustments for NOPAT and Invested Capital: Utilities

GAAP Earnings Adjustments	\$ (in Billions)	Balance Sheet Adjustments	\$ (in Billions)
Net Income	\$35	Total Assets	\$1,573
Hidden Non-Operating Items	\$1	Non-Interest Bearing Current Liabilities	(\$182)
Reported Non-Operating Items	\$31	Reported Net Assets	\$1,390
Change in Reserves	\$0	Short-Term Debt	\$71
Implied Interest for Off-Balance Sheet Debt	\$1	Excess Cash	(\$11)
Non-Operating Tax Adjustment	(\$13)	Total Reserves	\$1
After Tax Non-Operating Expense	\$2	Unconsolidated Subsidiaries	\$0
NOPAT	\$57	Discontinued Operations	(\$2)
		Deferred Compensation	(\$1)
		Deferred Taxes	(\$2)
		Over Funded Pensions	(\$2)
		Off-Balance Sheet Operating Leases	\$19
		Accumulated Unrecorded Goodwill	\$5
		Accumulated Goodwill Amortization	\$2
		Accumulated Asset Write-Downs	\$117
		Other Comprehensive Income	\$11
		Invested Capital	\$1,597
		Average Invested Capital	\$1,569

Sources: New Constructs, LLC and company filings.



New Constructs® - Research to Fulfill the Fiduciary Duty of Care

Ratings & screeners on 3000 stocks, 450 ETFs and 7000 mutual funds help you make prudent investment decisions.

New Constructs leverages the latest in machine learning to analyze structured and unstructured financial data with unrivaled speed and accuracy. The firm's forensic accounting experts work alongside engineers to develop proprietary NLP libraries and financial models. Our investment ratings are based on the best fundamental data in the business for stocks, ETFs and mutual funds. Clients include many of the top hedge funds, mutual funds and wealth management firms. David Trainer, the firm's CEO, is regularly featured in the media as a thought leader on the fiduciary duty of care, earnings quality, valuation and investment strategy.

To fulfill the Duty of Care, research should be:

1. **Comprehensive** - All relevant publicly-available (e.g. 10-Ks and 10-Qs) information has been diligently reviewed, including footnotes and the management discussion & analysis (MD&A).
2. **Un-conflicted** - Clients deserve unbiased research.
3. **Transparent** - Advisors should be able to show how the analysis was performed and the data behind it.
4. **Relevant** - Empirical evidence must provide [tangible, quantifiable correlation](#) to stock, ETF or mutual fund performance.

Value Investing 2.0: Diligence Matters: Technology is Key to Value Investing With Scale

Accounting data is only the beginning of fundamental research. It must be translated into economic earnings to truly understand profitability and valuation. This translation requires deep analysis of footnotes and the MD&A, a process that our [robo-analyst technology](#) empowers us to perform for thousands of stocks, ETFs and mutual funds.



DISCLOSURES

New Constructs®, LLC (together with any subsidiaries and/or affiliates, "New Constructs") is an independent organization with no management ties to the companies it covers. None of the members of New Constructs' management team or the management team of any New Constructs' affiliate holds a seat on the Board of Directors of any of the companies New Constructs covers. New Constructs does not perform any investment or merchant banking functions and does not operate a trading desk.

New Constructs' Stock Ownership Policy prevents any of its employees or managers from engaging in Insider Trading and restricts any trading whereby an employee may exploit inside information regarding our stock research. In addition, employees and managers of the company are bound by a code of ethics that restricts them from purchasing or selling a security that they know or should have known was under consideration for inclusion in a New Constructs report nor may they purchase or sell a security for the first 15 days after New Constructs issues a report on that security.

DISCLAIMERS

The information and opinions presented in this report are provided to you for information purposes only and are not to be used or considered as an offer or solicitation of an offer to buy or sell securities or other financial instruments. New Constructs has not taken any steps to ensure that the securities referred to in this report are suitable for any particular investor and nothing in this report constitutes investment, legal, accounting or tax advice. This report includes general information that does not take into account your individual circumstance, financial situation or needs, nor does it represent a personal recommendation to you. The investments or services contained or referred to in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about any such investments or investment services.

Information and opinions presented in this report have been obtained or derived from sources believed by New Constructs to be reliable, but New Constructs makes no representation as to their accuracy, authority, usefulness, reliability, timeliness or completeness. New Constructs accepts no liability for loss arising from the use of the information presented in this report, and New Constructs makes no warranty as to results that may be obtained from the information presented in this report. Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. Information and opinions contained in this report reflect a judgment at its original date of publication by New Constructs and are subject to change without notice. New Constructs may have issued, and may in the future issue, other reports that are inconsistent with, and reach different conclusions from, the information presented in this report. Those reports reflect the different assumptions, views and analytical methods of the analysts who prepared them and New Constructs is under no obligation to insure that such other reports are brought to the attention of any recipient of this report.

New Constructs' reports are intended for distribution to its professional and institutional investor customers. Recipients who are not professionals or institutional investor customers of New Constructs should seek the advice of their independent financial advisor prior to making any investment decision or for any necessary explanation of its contents.

This report is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or which would be subject New Constructs to any registration or licensing requirement within such jurisdiction.

This report may provide the addresses of websites. Except to the extent to which the report refers to New Constructs own website material, New Constructs has not reviewed the linked site and takes no responsibility for the content therein. Such address or hyperlink (including addresses or hyperlinks to New Constructs own website material) is provided solely for your convenience and the information and content of the linked site do not in any way form part of this report. Accessing such websites or following such hyperlink through this report shall be at your own risk.

All material in this report is the property of, and under copyright, of New Constructs. None of the contents, nor any copy of it, may be altered in any way, copied, or distributed or transmitted to any other party without the prior express written consent of New Constructs. All trademarks, service marks and logos used in this report are trademarks or service marks or registered trademarks or service marks of New Constructs.

Copyright New Constructs, LLC 2003 through the present date. All rights reserved.