



GAAP-Based Return on Invested Capital: Explanation & Examples

Return on invested capital ([ROIC](#)) is not only the most intuitive measure of corporate performance, but it is also the best. It measures how much profit a company generates for every dollar invested in the company.

GAAP-based ROIC (seen in Figure 1) is based on a simplified after-tax profit ([NOPAT](#)) and [invested capital](#) that can easily be calculated using only the income statement and balance sheet. Many of our competitors employ this simplified approach to ROIC because it allows them to automatically calculate ROIC for large numbers of companies. In short, this approach sacrifices analytical rigor for speed and simplicity.

We provide the GAAP-based ROIC to show how our ROIC differs and to feature the impact of [numerous adjustments](#) we make from details buried in the footnotes and MD&A of 10-Ks. Our [Robo-Analyst technology](#) enables us to perform the diligence needed to calculate an accurate ROIC with scale.

Figure 1: How to Calculate GAAP-Based ROIC

GAAP-Based NOPAT/ Average GAAP-Based Invested Capital

where

GAAP-Based NOPAT = (Total Operating Revenue + Total Operating Income - Total Operating Expense) * (1 - Limited Effective Income Tax Rate)

GAAP-Based Invested Capital = Short-Term Debt + Long-Term Debt + Total Shareholder's Equity + Minority Interests

Average GAAP-Based Invested Capital = (GAAP Invested Capital + Previous Year GAAP Invested Capital) / 2

Sources: New Constructs, LLC and company filings

We make it easy for the average investor to leverage the benefits of a high quality ROIC model and see a clear picture of a firm's true profitability. Figure 2 shows the Russell 1000 companies with the largest positive and negative difference between GAAP-based ROIC and our ROIC.

Figure 2: Russell 1000 Companies with Largest Discrepancy in GAAP-Based ROIC & ROIC

Ticker	Company Name	GAAP-Based ROIC	ROIC	Difference
Largest Positive Difference				
AAPL	Apple Inc.	20%	151%	131%
MA	Mastercard Inc.	44%	101%	57%
ISRG	Intuitive Surgical	17%	71%	54%
FFIV	F5 Networks	30%	82%	52%
NVDA	NVIDIA Corporation	23%	73%	50%
Largest Negative Difference				
DPZ	Domino's Pizza	74%	48%	-26%
NOW	ServiceNow Inc.	-16%	-56%	-40%
BA	The Boeing Company	79%	12%	-67%
VRSN	VeriSign Inc.	74%	3%	-71%
HPQ	HP Inc.	133%	10%	-123%

Sources: New Constructs, LLC and company filings.

Figure 2 highlights the importance of looking beyond the income statement and balance sheet when assessing a firm's profitability. Relying on a GAAP-based ROIC leads investors to believe that HP Inc. (HPQ), with its 133% GAAP-based ROIC, is significantly more profitable than Apple Inc. (AAPL), which earns just a 20% GAAP-based ROIC. Overlooking numerous GAAP loopholes and distortions leads to an inflated view of HPQ's profitability. See HP's ROIC and GAAP-based ROIC each year dating back to 2010 [here](#).

GAAP-based ROIC doesn't account for HPQ's \$21 billion in [asset write-downs](#), a charge we include when calculating invested capital. At the same time, GAAP-based ROIC includes Apple's \$233 billion in [excess cash](#). We remove excess cash when calculating invested capital because it is not needed for the operations of the business. See Apple's ROIC and GAAP-based ROIC each year dating back to 2010 [here](#).

Mastercard (MA), Intuitive Surgical (ISRG), F5 Networks (FFIV) and NVIDIA Corporation (NVDA) earn the second through fifth highest difference in GAAP-based ROIC and ROIC. NVDA was featured as a [Long Idea in September 2015](#), in large part due to its impressive ROIC. Relying on the GAAP-based ROIC leads to an understated view of its true profitability and created an opportunity for more rigorous investors. Since publishing the September Long Idea on NVDA, the stock is up 417% while the S&P is up just 24%. See NVIDIA's ROIC and GAAP-based ROIC each year dating back to 2011 [here](#).

HP Inc. earns the largest negative difference in GAAP-based ROIC and ROIC. VeriSign (VRSN), The Boeing Company (BA), ServiceNow (NOW), and Domino's Pizza (DPZ) round out the five largest negative discrepancies. Boeing's GAAP-based ROIC overlooks \$9.5 billion in asset write-downs and nearly \$14 billion in [accumulated other comprehensive income](#). See the [adjustments page of our model of Boeing Company](#), where we show the adjustments to calculate invested capital.

Our models and calculations are 100% transparent because we want our clients to know how much work we do to ensure we give them the best earnings quality and valuation models in the business.

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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.



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