

Artificial Intelligence for Smarter Investing

Grow & Sustain Wealth. Achieve more.

OVERVIEW & BACKGROUND Experience & Expertise



New Constructs, LLC

- Founded in July 2002; became a hedge fund from 2007-2015; re-launched research business in 2014
- Track record: model portfolios and research featured by <u>Barron's</u> and <u>CNBC</u>
- Expertise and experience: accounting, finance & technology

David Trainer (CEO):

Former auditor and executive compensation consultant with Arthur Andersen, equity analyst at Credit-Suisse and hedge fund manger.

Lee Moneta-Koehler (COO):

Former Director of Research and equity analyst at New Constructs. 10+ years of experience developing financial technology.

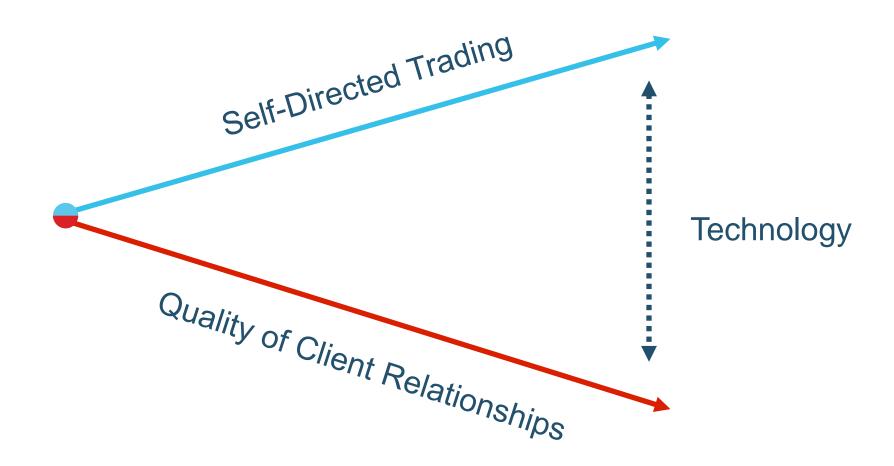
Top Minds in Machine Learning Around the World (CTO):

We attract top talent to fill dynamic needs for furthering our cutting-edge technology. Our existing technology offers unparalleled application of machine learning and natural language processing theories and techniques. "New Constructs has the answer key".

TECHNOLOGY & REGULATION ARE CHANGING INVESTING

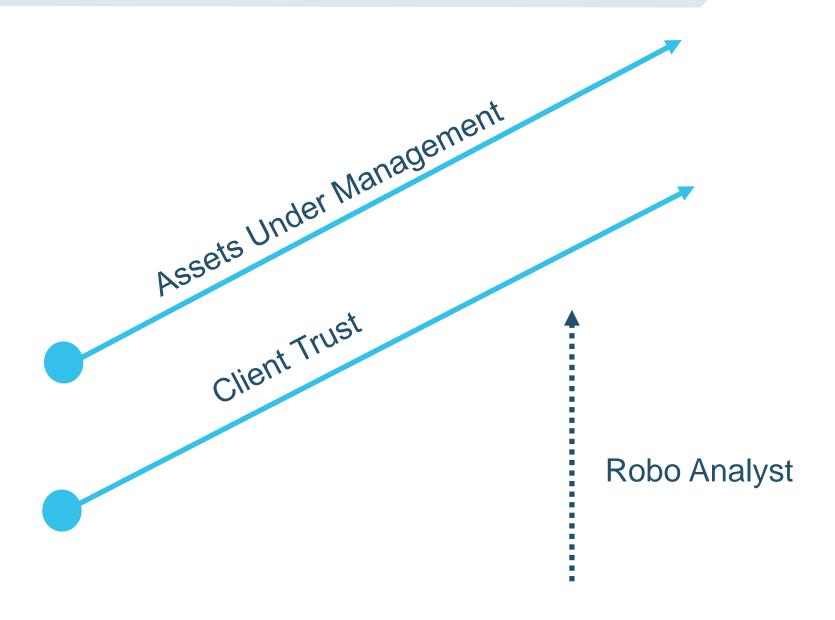






TECHNOLOGY WILL EVENTUALLY WORK FOR YOU





MACHINES CAN BE BETTER AT SOME FORMS OF DILIGENCE



WHO HAS TIME TO READ 200+ PAGE FILINGS?



MACHINE LEARNING FROM EXPERTS Human-Validated Parsing Instructions from 120,000+ Filings





GIVE CLIENTS THE (FIDUCIARY) SERVICE THEY EXPECT



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



Key Benefits

- 1. More trust from clients
- 2. Cost effective fulfillment of fiduciary duties
 - a. Comprehensive
 - b. Objective
 - c. Transparent
 - d. Relevant

DISCLOSURE TRENDS ARE NOT YOUR FRIEND



More Data, More Noise, More Complexity

- Filings have grown to 200+ pages
 - (That's longer than the average novel.)
- Increasingly complex and time-consuming work
- Accounting rules are constantly changing

Regulators & Media Are Not Always Assets

- SEC, FINRA, FASB
- CNBC, Frank Quatrrone

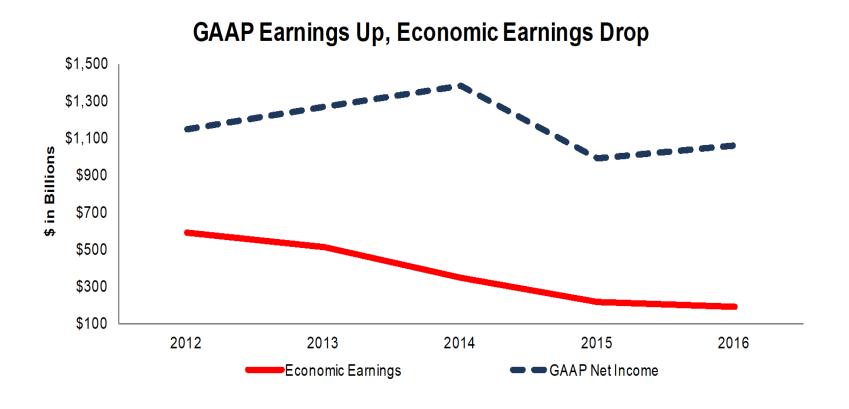
FOOTNOTES MAKE A DIFFERENCE





"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 <u>5/4/17</u> & <u>2/28/18</u>



EARLY INDICATOR FOR BANKRUPTCY

Report on Eastman Kodak (EKDKQ.PK) on 3/21/2011



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



ROBO ANALYST SOLVES BIG DATA PROBLEM

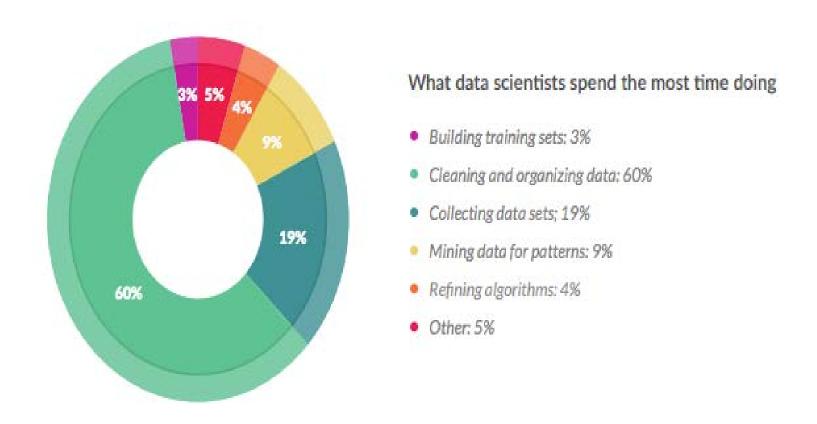
"Cleaning" data is a fallacy



80% of capital and time goes to data cleaning and collection.

Data quality is too poor for AI to work.

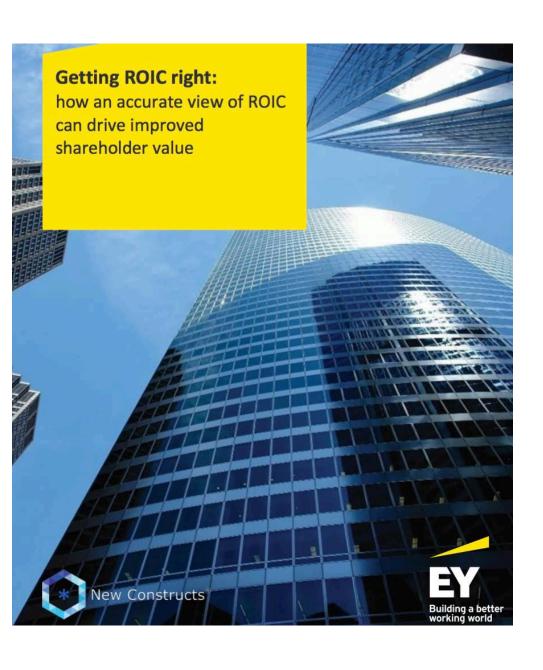
We solve that problem with superior data.



ERNST & YOUNG'S FOCUS ON ROIC

Big 4 Accounting Firm Proves Value of ROIC for Stakeholders





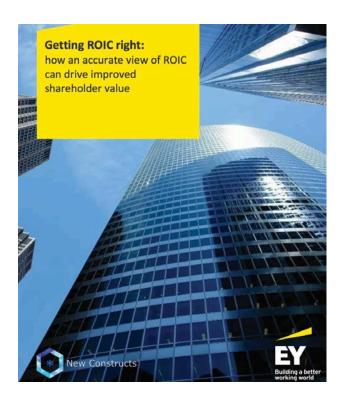
CLIENTS DESERVE THE BEST RESEARCH

Unrivalled Data, Transparency and Integrity



- 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".



Strategic Business Relationships The Latest In Technology For The Best In the World

* New Constructs®

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













Scottrade









Market Watch











Interactive Brokers









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.

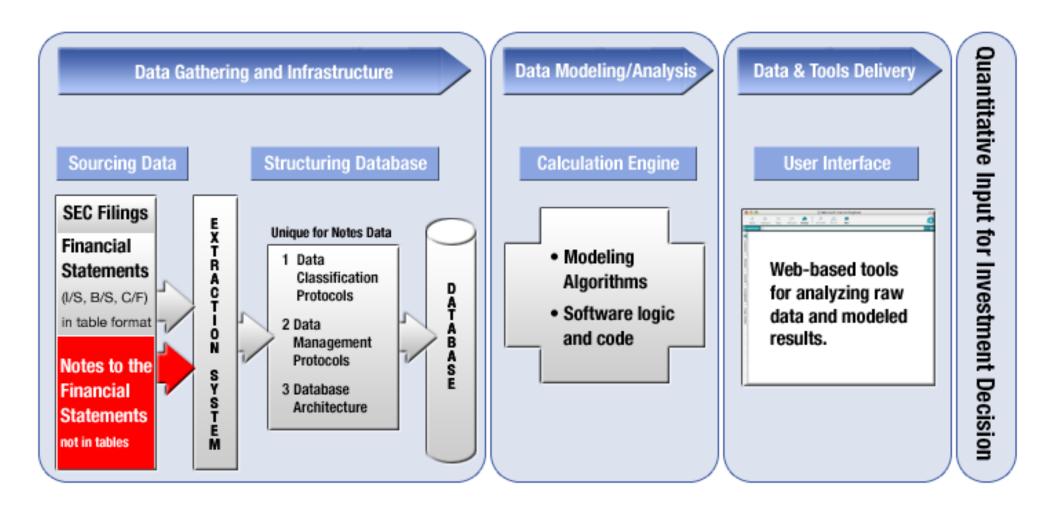
• **Consultants/Corporates**: custom engagements focused on enterprise value optimization and investor relations strategy. Direct access via our website along with custom work and consultation via partners.



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.

VERSUS OTHER RESEARCH OFFERINGS



	Coverage		Cash Flow Focus (Non-GAAP)		Consistent Due Dilligence			ency/Links To	Independence		
	Stocks	ETFs	Mutual Funds	ROIC & Economic Earnings	Reverse DCF	Footnotes	MD&A	Models	SEC Filings/ Source Data	Not Paid By Funds or Companies Covered	No Banking or Trading Revenues
New Constructs	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
CFRA	limited			$\sqrt{}$?	1/2		1/2		$\sqrt{}$	$\sqrt{}$
Credit-Suisse HOLT	$\sqrt{}$			$\sqrt{}$	$\sqrt{}$			$\sqrt{}$			
MorningStar	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$							$\sqrt{}$
EVA Dimensions	$\sqrt{}$			$\sqrt{}$						\checkmark	$\sqrt{}$
S&P Capital IQ	$\sqrt{}$										$\sqrt{}$
Zack's	$\sqrt{}$										$\sqrt{}$
Other Sell-Side	\checkmark										
Valuentum.com	$\sqrt{}$	$\sqrt{}$						$\sqrt{}$		$\sqrt{}$	$\sqrt{}$
Finbox.io	\checkmark							$\sqrt{}$		$\sqrt{}$	$\sqrt{}$
GuruFocus	$\sqrt{}$			$\sqrt{}$						$\sqrt{}$	
Other Firms	$\sqrt{}$?	?

PORTFOLIO TRACKING & ALERTS



Portfolio: ThomsonONE demos	\$	Institutional	Edit/	Alert	Download	Print
Enter tickers here.		Membership	Create	Emails	CSV	All
		0			•	
Add	,	50 Portfolios Unlimited Tickers				

Details	Ticker	Name	Туре	Sector / Category	Price ¹	Mkt Val /	Div Yield	Risk/Reward Rating ▼		ROIC	FCF Yield	Price to EBV	GAP	Analyst Notes Updated ³	Remove
0	OUTR:1	Outerwall Inc.	Stock	Consumer Discretionary	\$52.00	\$895	4.6%	Very Attractive	•	16%	17%	0.3	< 1	Sep 26, 2016	×
0	XLF	State Street Select Sector SPDR Trust: Financial Select Sector SPDR Fund	ETF	Financials / Non-REIT	\$24.91	\$24,284	-	Very Attractive	•	8%	4%	1.4	10		×
0	GBX	Greenbrier Companies, Inc.	Stock	Industrials	\$44.70	\$1,274	2.0%	Attractive •		13%	6%	0.7	< 1		×
0	AMAT	Applied Materials, Inc.	Stock	Information Technology	\$45.25	\$48,627	0.9%	Attractive	•	21%	5%	1.4	25		×
٥	AAPL	Apple Inc.	Stock	Information Technology	\$149.50	\$779,469	1.7%	Neutral	•	151%	7%	0.9	< 1		×
0	DD	E.I. Dupont de Nemours & Company	Stock	Materials	\$83.98	\$72,878	1.8%	Neutral Suspended	•	7%	5%	1.9	22	Jul 26, 2017	×
0	TRI	Thomson Reuters Corp	Stock	Consumer Discretionary	\$46.06	\$34,043	3.0%	Neutral	•	5%	4%	1.6	23		×
0	MORN	Morningstar Inc.	Stock	Consumer Discretionary	\$83.12	\$3,568	1.1%	Neutral Suspended	•	14%	-2%	1.5	6	Jul 28, 2017	×
0	VRNT	Verint Systems, Inc.	Stock	Information Technology	\$39.70	\$2,488	-	Unattractive	•	2%	-1%	-84.3	> 100		×
٥	SNAP	Snap Inc.	Stock	Information Technology	\$13.81	\$13,979	-	Unattractive	•	-34%	-9%	-1.7	> 100		×
0	QASGX	Federated MDT Series: Federated MDT Small Cap Growth Fund	Mutual Fund	Small Cap Growth	\$22.05	\$183	-	Very Unattractive	•	12%	3%	2.9	37		×
0	JGMAX	Janus Investment Fund: Janus Henderson Triton Fund	Mutual Fund	Small Cap Growth	\$26.91	\$8,387	-	Very Unattractive	•	9%	0%	3.6	37	Jul 27, 2017	×

DETAILED RATINGS, MODELS & REPORTS



Ticker: f View Ratings Ratings Methodology

Ford Motor Company (F) Closing Price: \$11.75 (Jul 18, 2017) Dividend Yield: 5.1%

	Quality of	Earnings	Valuation						
Overall Rating ③	Econ vs Reported EPS ③	ROIC ③	FCF Yield ③	Price to EBV ②	GAP ⑦				
Very Dangerous	Misleading Trend	Bottom Quintile	< -5%	> 3.5 or -1 < 0	> 50				
Dangerous	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	Very Attractive Rising EE		> 10%	0 < 1.1	0 < 3				
Actual Values									
F	\$0.01 vs. \$0.93	6%	4%	0.8	< 1 yr				
Benchmarks									
S&P 500 (SPY)	&P 500 (SPY) Positive EE		2%	2.3	21 yrs				
Russell 2000 (IWM)	Positive EE	6%	-0%	2.8	30 yrs				
		Add to Portfolio	Company Model	Download XLS	Download Report				

STOCK, ETF & MUTUAL FUND SCREENING



ETFs and Mutual Funds	Dynamic Data 1-Click Reports Das	shboards (Beta)					
	Select criteria:						
	Fund Type	Sec	ctor	Style			
	□ ETF	✓ Consumer Discretionary	□ Industrials	All Cap Blend	☐ Mid Cap Blend		
	Mutual Fund (MF)	Consumer Staples	☐ Information Technology	All Cap Growth	☐ Mid Cap Growth		
		☐ Energy	Materials	☐ All Cap Value			
	Price @	☐ Financials / Non-REIT	☐ Telecom Services	☐ Large Cap Blend	Small Cap Blend		
	Price ③	☐ Financials / REIT	Utilities	☐ Large Cap Growth	Small Cap Growth		
	>= 🗘 \$	☐ Health Care		☐ Large Cap Value	Small Cap Value		
	∨ Less						
	Overall Rating ①	Ass	sets ③	Initial Mir	nimum ③		
	✓ ■ Very Attractive	> = 🗘 \$ 2000.	0 MM	>= 🗘 \$			
	Attractive						
	☐ ● Neutral	Drov	vider ③	Total Appu	al Costa @		
	Dangerous	Prov			al Costs ③		
	☐ Wery Dangerous		•	>= 🗘	%		
		I			Filter		

Ticker	Name	Туре	Category	Price ¹	Assets (MM)	Initial Min	Overall Rating	Total Annual Costs	Add to Portfolio + Add All
VCDAX	Vanguard World Funds: Vanguard Consumer Discretionary Index Fund	MF	Consumer Discretionary	\$68.79	\$2,103	\$100,000	Attractive	0.11%	+
FDTGX	Fidelity Select Portfolios: Fidelity Advisor Consumer Staples Fund	MF	Consumer Staples	\$90.41	\$2,795	\$2,500	Attractive	2.94%	+
FDCGX	Fidelity Select Portfolios: Fidelity Advisor Consumer Staples Fund	MF	Consumer Staples	\$88.77	\$2,795	\$2,500	Attractive	2.15%	+
FDIGX	Fidelity Select Portfolios: Fidelity Advisor Consumer Staples Fund	MF	Consumer Staples	\$91.99	\$2,795	\$2,500	Attractive	1.00%	+
FDFAX	Fidelity Select Portfolios: Consumer Staples Portfolio	MF	Consumer Staples	\$92.14	\$2,795	\$2,500	Attractive	0.99%	+
VCSAX	Vanguard World Funds: Vanguard Consumer Staples Index Fund	MF	Consumer Staples	\$65.54	\$3,923	\$100,000	Very Attractive	0.12%	+

Download CSV ↓



Technology To Support Fulfillment of Fiduciary Duties

NEW RULE RAISES QUESTIONS



- 1. Will the rule stand?
- 2. What, exactly, does it take to fulfill fiduciary duties?
- 3. What does "fiduciary" mean = Duty of Loyalty & Duty of Care
 - My focus is on the Duty of Care.



The DOL has shined a light in the dark corner of investment research.



TRADITIONAL RESEARCH HAS FLAWS





Technical research lacks rigor

Recommendations based on a pattern on a chart?

Sell-side research is less reliable

- Conflicted? some highly publicized issues
- Diminishing resources

WHAT DEFINES "BETTER" RESEARCH





By law:

 A fiduciary must act with "care, skill, prudence, and diligence."

Research must be:

Inarguably in best interests of clients

Research must not be:

- Conflicted
- Based on diversification
- Dependent on technicals

DEFINING DILIGENCE

Show Clients You Understand the Duty Of Care



1. Comprehensive:

All relevant publicly-available (e.g. 10-Ks and 10-Qs) information has been diligently reviewed, including the footnotes and MD&A.

2. Un-conflicted:

Clients deserve unbiased research.

3. Transparent:

Advisers should be able to show how the analysis was performed and the data behind it.

4. Relevant:

Empirical evidence must provide <u>tangible</u>, <u>quantifiable correlation</u> to stock, ETF or mutual fund performance.

EMBRACE THE CHANGE

Diligence Pays



Key thought leaders support the importance of diligence.

- Michael Kitces
- MarketWatch.com
- Wealthmanagement.com
- BlackRock

Regulators are too:

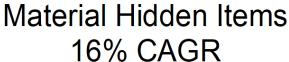
The DoL

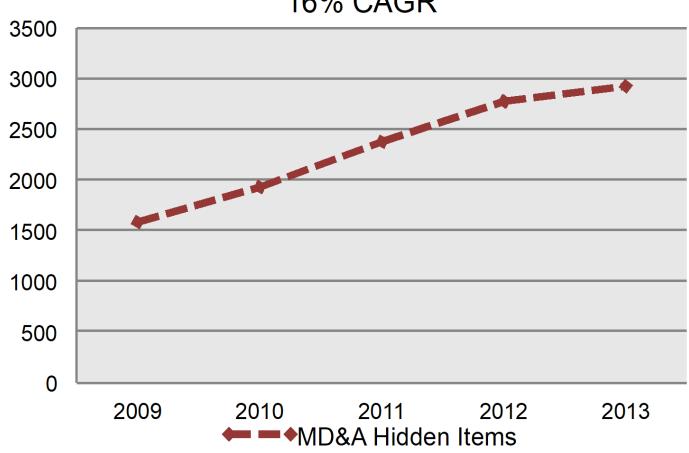


Appendix

BIGGER HAYSTACKS, MORE NEEDLES







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

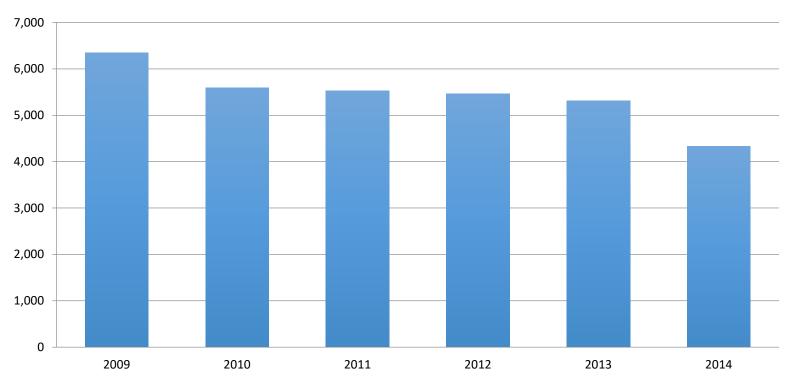
ASSET WRITE-DONWS ARE A RED FLAG



32,583

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

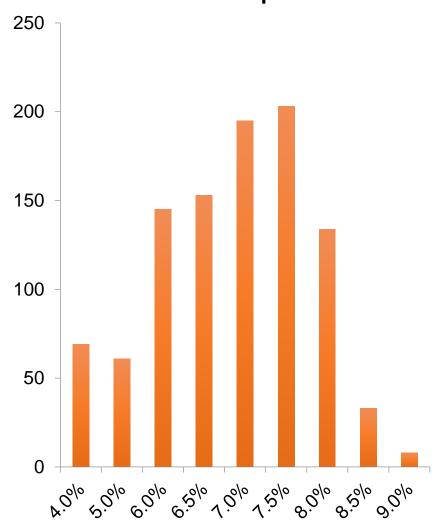




MANAGEMENT'S INFLUENCE ON PROFITS



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.

100% UNCONFLICTED



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.

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