SN VALUATION [Stocks, Real Estate, Bonds]

Titan International (TWI)

Price:	\$17.90	Net Tang. Bk Value Incl. Cash, Excl.	\$635,030,000.00	Net Tang. Book Yr. 5 (Inc. Cash):	\$769,912,475.00
Market Cap:	\$958,008,000	Goodwill (NTBVIC):	\$655,050,000.00	Avg. Year Op. Cash:	\$81,066,495.00
Cash:	\$508,450,000	NTBVIC/Market Downside Recovery:	66.29%	Year 5 Disposition FCF Multiple:	3.0
Debt:	\$864,660,000	Op. Cash Flow:	\$81,066,495	Year 5 Disposition Price:	\$1,013,111,960.00
Net Cash:	-\$356,210,000	Implied Years to Fill Gap:	3.98		
Enterprise Value:	\$1,314,218,000	Today's Equity if 5x Op. CF:	\$878,229,485		
	_	Net Tang	g. Book+ Gain Dispositio	on:	\$1,013,111,960.00
Shares Outstanding:	53,520,000		IRR:		1.12%
				Price:	\$18.93
				Target Market Cap:	\$1,013,111,960
				Target Enterprise Value:	\$1,369,321,960

^{*} Our future intrinsic value measures the total return, which includes both capital appreciation and dividend income.

Stock plummetted in early June, from \$26 and has trailed down to today's \$17.90, or a wipe out of \$400MM in market cap. What triggered the collapse? Large brokerages, Jefferies, William Blair and BB&T downgraded the stock on the back of oil price pressure crimping margins and reduced demand for large earth movers with the lull in mining. Does this spell a buyout opportunity for us?

Agri/earthmoving/consumer, tire/wheel company. Main cost is steel for rim/disc, rubber for tire. Recently acquired Titan Europe, which was 20% owned, in December 2012 for +\$100MM in a 11-for-1 stock acquisition. The Co. took out additional debt, secured by the land and assets of the subsidiary companies, for \$200MM in Q1 2013. The Co. paid off \$100MM in remaining liabilities of Titan Europe in April 2013. With the remainder, management looks like they are searching for more acquisition targets, which we hate.

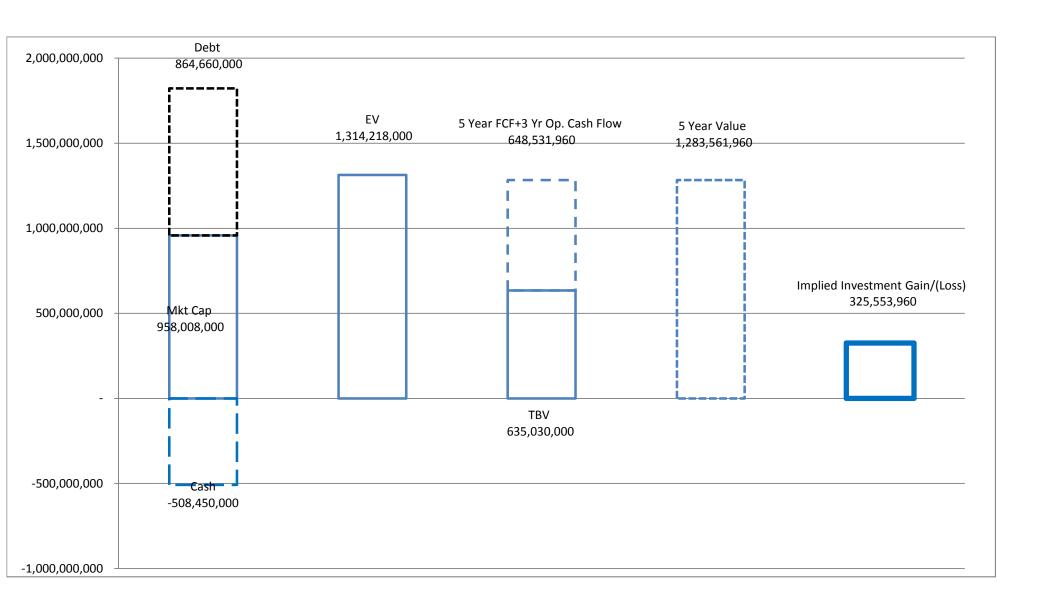
Deere and Co. is the largest customer with 20% of sales. CNH Global N.V. is a 10% of sales customer.

We see a 65% downside protection, and the Co. has \$500MM in cash for \$800MM in debt. Interest rate is high for the debt at 8%. We think if they make another large acquisition, then it may be the omen for this Co. Acquisition for an industry dependent on China and the health of the global economy is too risky.

We compressed margins to 13%GM from 16%. Still provides a conservatively adjusted return, but the overwhelming market consensus is pessimism over the industry trend. The asset value is present, but slimmer margins may call for a dry spell with regards to cash flow.

We will pass on this investment.

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Income Statement

Titan International, Inc., was founded in 1890 and was incorporated in 1983 in the State of Illinois. It is a wheel, tire and undercarriage industrial group servicing customers across its target markets. As a manufacturer in the off-highway industry, it produces specialty products to meet the specifications of original equipment manufacturers and aftermarket customers in the agricultural, earthmoving/construction and consumer markets. For the agricultural market, the Company manufactures rims, wheels and tires for use on various agricultural and forestry equipment, including tractors, combines, skidders, plows, planters and irrigation equipment, and are sold directly to OEMs and to the aftermarket through independent distributors, equipment dealers and Titan's own distribution centers. For the earthmoving/ construction market, the Company manufactures rims, wheels and tires for various types of OTR earthmoving, mining, military and construction equipment, including skid steers, aerial lifts, cranes, graders and levelers, scrapers, self-propelled shovel loaders, articulated dump trucks, load transporters, haul trucks and backhoe loaders. For the Consumer market, the Company manufactures bias truck tires in Latin America, provides wheels and tries and assembles brakes, actuators and components for the domestic boat, recreational and utility trailer markets. It also offers select products for ATVs, turf, and golf car applications. Steel and rubber are the primary raw materials used by the Company in all segments. It distributes wheels and tires directly to OEMs. The distribution of aftermarket tires occurs through a network of independent and OEM-affiliated dealers. The Company distribution of aftermarket customers through its formance. The Company's research, development and engineering staff tests original designs and technologies and develops new manufacturing methods to improve product performance. The Companies Incorporated, GKN Wheels, Ltd., Topy Industries, Ltd. and certain other foreign competitors in the

Company Name:

				Income Statemen	t	
Company Name:	Titan International	Market Capitalization:	\$958,008,000.00	Revenue:	\$1,940,000,000.00	100.0%
Ticker Symbol:	TWI	Total Debt:	\$864,660,000.00	Cost of Goods Sold:	\$1,645,860,000.00	84.8%
Last Price:	\$17.90	Total Cash:	\$508,450,000.00	Gross Profit:	\$294,140,000.00	15.2%
Net Cash/Share:	-\$6.66	Net Cash/(Debt):	-\$356,210,000.00	EBITDA:	\$204,020,000.00	10.5%
Net Cash to Last Price:	-37.18%	Enterprise Value:	\$1,314,218,000.00	Net Income:	\$79,610,000.00	4.1%
Shares Outstanding:	53,520,000	Current EV/Share:	\$24.56	Net income.	Ψ73,010,000.00	7.170
· ·	Rubber & Plastics		\$228,790,000.00	Balance Sheet		
Industry:		EBITDA:			# 500 450 000 00	
Sector:	Consumer Cyclical	EV/EBITDA Multiple:	5.74	Cash:	\$508,450,000.00	
		EV/EBITDA Multiple Average Year 1-5:	8.52	Short Term Investment:	\$0.00	
Institutional Ownership:	13.64%	EV/FCF Multiple (excluding acquisition):	20.40	A/R:	\$329,000,000.00	
Mutual Fund Ownership:	53.31%	EV/FCF Multiple Average Year 1-5 (excluding acquisition):	25.74	PP&E:	\$566,000,000.00	
Insider Ownership:	5.27%			Assets:	\$2,053,280,000.00	
Float:	96.00%	Upper Range				
		DCF: EV/EBITDA Terminal Value		A/P:	\$210,000,000.00	
				Deferred Tax:	\$61,070,000.00	
Te	chnicals	Implied TV from 3 X EV/EBITDA Multiple	\$300.412.200.00	Other Liabilities:	\$255,780,000.00	
52 week low:	\$15.77	,	,	Short term Debt:	\$230,660,000.00	
Today from 52 week low:	13.51%	Enterprise Value	\$300,412,200.00	Long Term Debt:	\$634,000,000.00	
52 week high:	\$27.12	Cash at Year 5:	\$763,782,475.00	Liabilities:	\$1,391,510,000.00	
				Liabilities.	\$1,391,510,000.00	
Today from 52 week high:	51.51%	Debt at Year 5:	\$864,660,000.00	5		
		Equity Value Year 5:	\$199,534,675.00	Retained Earnings:	\$180,000,000.00	
Analyst/Consensus		Equity/Share at Year 5:	\$3.73	Paid-In Capital:	\$554,000,000.00	
Analyst Sales Growth FY1:	27.50%	Annualized Return:	-26.93%	Treasury Stock:	-\$16,000,000.00	
Analyst Sales Growth FY2:	6.40%	Lower Range		Stockholder's Equity:	\$659,970,000.00	
SN Valuation Estimate FY1:	0.00%	DCF: Net Tangible Asset excluding Cash/Debt Te	rminal Value			
SN Valuation Estimate FY2:	0.00%			Cash Flow		
		Year 5 Net Tangible Assets excluding cash and debt	\$965,850,000.00	Net Income:	93,960,000.00	
Analyst Earnings Estimate FY1:	\$1.66	y y	*,,	Depreciation/Amortization:	54,090,000.00	
Analyst Earnings Estimate FY2:	\$2.14	Enterprise Value	\$965.850.000.00	Change in Working capital:	13,290,000.00	
SN Valuation Earnings Est. FY1:	\$0.50	Cash at Year 5:	\$763.782.475.00	Cash from Operating Activities:	130,170,000.00	
SN Valuation Earnings Est. FY2:	\$0.50 \$0.50	Debt at Year 5:	\$864,660,000.00	Cash nom Operating Activities.	130,170,000.00	
Sin valuation Lamings Est. 1 12.	φ0.30		\$864,972,475.00	Conital Funcadituses	CE 740 000 00	
Barrielo I		Equity Value Year 5:		Capital Expenditures:	-65,740,000.00	
Multiples		Equity/Share at Year 5:	\$16.16	Cash from Investing Activities:	-63,890,000.00	
Market Value to Book:	1.45	Annualized Return:	-2.02%			
EV to Book:	1.99			Total Cash Dividends Paid:	-840,000.00	
Market Value to Tangible Net Assets:	2.53	EVA		Issuance (Retirement) of Stock:	930,000.00	
P/E Ratio:	12.03	EVA today:	\$622,565,741.84	Issuance (Retirement) of Debt:	-3,640,000.00	
Trailing P/E Ratio:	12.37	EVA in 5 Years:	\$1,233,339,912.25	Cash from Financing Activities:	-4,640,000.00	
Forward P/E Ratio:	8.36	EVA/Share:	\$23.04			
Beta:	2.35	Cash at Year 5:	\$763.782.475.00			
Dividend:	0.02	Debt at Year 5:	\$864,660,000.00	Profitability Margin	ns	
Dividend Yield:	0.11%	Equity Value Year 5:	\$1,132,462,387.25	Debt to Equity:	131.02%	
Dividend Date:	Jul 14, 2013	Equity/Share at Year 5:	\$21.16	Return on Assets:	4.65%	
Ex-Dividend Date:	Jun 26, 2013	Equity/onaic at Year o.	\$21.10	Return on Capital:	6.27%	
LA-DIVIDEND DATE.	Juli 20, 2013	Annualized return	14.65%	Return on Equity:	14.48%	
Name attack		Annuanzed return	14.05%	neturn on Equity.	14.48%	
Competitors	N//4	O				
Average EV to EBITDA:	N/A	Current Net Tangible Asset				
Company EV to EBITDA:	5.74	Net Tangible Asset/Share:	\$11.90			
		Net Tangible Asset/Share in Year 5:	\$14.42			
Average EV to EBIT:	N/A	Annualized return	3.92%			
Company EV to EBITA:	7.52					
•		Current Equity Price:	\$17.90			
		Selling at Discount?	Premium			
		Appreciation Potential: Copyright SN Valuation All Righ				
		Copyright 514 Valuation All Righ	is reserved 60.0076			

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SN VALUATION

Depreciation is: Included within COGS
Operating Income (EBITA)

P/E (historical today's price; forecasted intrinsic price)

Revenue

Other

Gross margin SG&A

Unusual expense Other operating expense

Interest income/(expense)

Gain (loss) on sale of asset

Income before tax

Income after tax

Equity in affiliates

Revenue Growth

Margins COGS

SG&A

R&D

Tax

Gross margin

Unusual expense

Other operating expense

Operating Income (EBITA)

Interest income/(expense) Gain (loss) on sale of asset

Income before tax

Income after tax

Minority Interest Equity in affiliates

Depreciation is: Included within COGS

Tax Rate Implied Debt Interest Rate

Minority Interest

Net income
*Figures are in millions (\$)

EPS (based off today's share count)

LBO Pro Forma Income Statement

Forecasted 2015 12 months ending 2011-12-31 12 months ending 2012-12-31 2013 2016 727.60 881.59 1,487.00 1.820.68 1.820.68 1.820.68 1.820.68 1.820.68 1.820.68 671.63 1,254.89 1,526.54 1,583.99 1,583.99 1,583.99 1,583.99 1,583.99 232.11 95.71 4.23 104.09 66.83 **55.97** 54.31 294.14 138.42 236.69 127.45 236.69 127.45 236.69 127.45 236.69 127.45 236.69 127.45 8.85 9.10 9.10 9.10 16.14 11.70 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 100.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -26.13 0.00 0.00 0.00 100.14 30.94 116.03 174.70 -18.89 100.14 100.14 100.14 -13.30 -40.03 -23.42 1.32 -58.64 -58.64 -58.64 -58.64 -58.64 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.27 95.89 37.75 58.14 -0.11 **-9.19** 0.00 0.00 0.00 0.00 0.19 0.00 41.50 14.53 26.98 -32.00 180.57 41.50 -7.36 **-24.64** 86.61 93.96 14.53 26.98 14.53 -3.26 14.53 14.53 -5.93 26.98 26.98 26.98 0.00 0.00 0.02 1.59 0.00 0.00 0.00 **-24.64** 0.00 -5.93 0.00 **58.15** 0.00 **95.55** 0.00 **26.98** 0.00 **26.98** 0.00 **26.98** 0.00 **26.98** 0.00 **26.98** -\$0.46 -\$0.11 \$1.09 \$1.79 \$0.50 \$0.50 \$0.50 \$0.50 \$0.50 -161.55 10.03 37.14 37.56 N/A 21.16% 68.67% 22.44% 0.00% 0.00% 0.00% 0.00% 0.00% 39.37% 35.00% -9.25% 23.00% 35.47% 47.96% -3.63% -10.72% 0.22% -9.25% -9.25% -9.25% -9.25% 92.31% 88.19% 84.39% 83.84% 87.00% 87.00% 87.00% 87.00% 87.00% 7.69% 11.81% 15.61% 16.16% 13.00% 13.00% 13.00% 13.00% 13.00% 7.58% 0.72% 0.00% 7.00% 0.50% 0.00% 7.00% 0.50% 0.00% 7.46% 6.44% 7.60% 7.00% 7.00% 0.50% 7.00% 0.50% 1.22% 1.61% 0.28% 0.39% 0.50% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% -1.44% 0.00% 0.00% 0.00% 0.00% -2.60% 3.51% 7.80% 9.60% 5.50% 5.50% 5.50% 5.50% 5.50% -1.83% 0.00% -4.54% 0.00% -1.57% 0.00% 0.07% -3.22% 0.00% -3.22% 0.00% -3.22% 0.00% -3.22% 0.00% -3.22% 0.00% 0.03% -0.01% 0.22% 0.25% 0.00% 0.00% 0.00% 0.00% 0.00% -4.40% -1.04% 6.45% 9.92% 2.28% 2.28% 2.28% 2.28% 2.28% -1.01% -0.37% 2.54% 0.80% 0.80% 0.80% 0.80% 4.76% 0.80% -3.39% -0.67% 3.91% 5.16% 1.48% 1.48% 1.48% 1.48% 0.00% 0.00% 0.00% 0.09% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% -3.39% -0.67% 3.91% 5.25% 1.48% 1.48% 1.48% 1.48% 1.48%

Name:

Titan International

Ticker:

TWI

Net tangible assets/share

\$4.89

\$4.87

\$6.72

\$10.64

\$11.87

\$12.37

\$12.87

\$13.38

\$13.88

\$14.39

TWI

						Adjus	stment						
	As of 2009-12-31	As of 2010-12-31	As of 2011-12-31	As of 2012-12-31	As of 2013-03-31	+		Adjusted Proforma	2011	2012	2013	2014	2015
Cash	229.18	239.50	129.17	189.11	508.45			508.45	559.52	610.58	661.65	712.72	763.78
Short term investment	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Cash and Short term	229.18	239.50	129.17	189.11	508.45			508.45	559.52	610.58	661.65	712.72	763.78
Accounts Receivable	67.51	89.00	189.53	297.80	329.00			329.00	329.00	329.00	329.00	329.00	329.00
Other receivables	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Total Receivables	67.51	89.00	189.53	297.80	329.00			329.00	329.00	329.00	329.00	329.00	329.00
Total Inventory	110.14	118.14	190.87	366.38	378.37			378.37	378.37	378.37	378.37	378.37	378.37
Prepaid Expenses	27.28	14.06	20.25	55.59	74.87			74.87	74.87	74.87	74.87	74.87	74.87
Other Current Assets	11.11	20.65	34.77	70.11	32.21			32.21	32.21	32.21	32.21	32.21	32.21
Current Assets	445.22	481.35	564.59	978.99	1,322.90	0.00	0.00	1,322.90	1,373.97	1,425.03	1,476.10	1,527.17	1,578.23
								1					
PP&E, Gross	553.78	577.40	701.70	1,002.42	1,000.00			1,000.00	1,030.00	1,060.00	1,090.00	1,120.00	1,150.00
Change in Depreciation	34.30	37.57	44.91	54.09	54.09			54.09	54.09	54.09	54.09	54.09	54.09
Accumulated Depreciation	299.32	329.35	366.95	435.87	434.00			434.00	488.09	542.18	596.27	650.36	704.45
PP&E, Net	254.46	248.05	334.75	566.55	566.00			566.00	541.91	517.82	493.73	469.64	445.55
Goodwill	0.00	0.00	19.84	24.94	24.94	0.00		24.94	24.94	24.94	24.94	24.94	24.94
Intangibles	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Long term investments	6.46	22.69	29.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Other long term assets	30.33	28.78	62.11	120.83	139.44	ļ		139.44	139.44	139.44	139.44	139.44	139.44
Long Term Assets	291.25	299.52	445.70	712.32	730.38			730.38	706.29	682.20	658.11	634.02	609.93
Total Assets	736.47	780.87	1,010.29	1,691.31	2,053.28	0.00	0.00	2,053.28	2,080.26	2,107.23	2,134.21	2,161.19	2,188.16
					l			<u>J</u>					
Accounts Payable	24.25	35.28	76.57	180.06	210.00			210.00	210.00	210.00	210.00	210.00	210.00
Accrued Expense	7.66	8.58	7.09	6.88	7.00			7.00	7.00	7.00	7.00	7.00	7.00
Other current Liabilities	38.17	48.49	80.38	128.95	128.90			128.90	128.90	128.90	128.90	128.90	128.90
Total Current Liabilities	70.08	92.35	164.04	315.89	345.90	0.00	0.00	345.90	345.90	345.90	345.90	345.90	345.90
Total Garron Elabinio	7 0.00	02.00		0.000	0.0.00		0.00	- 0.0.00	0.0.00	0.0.00	0.0.00	0.0.00	0.0.00
Notes Payables/Short Term Debt	0.00	0.00	11.72	145.80	230.66			230.66	230.66	230.66	230.66	230.66	230.66
Current port. Of LT Debt/Capital Leases	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
	366.30	373.56		438.33		0.00	0.00						634.00
Long term Debt			317.88		634.00	0.00	0.00	634.00	634.00	634.00	634.00	634.00	
Capital Lease Obligations	0.00	0.00	0.00	3.11	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Total Interest Earning Debt	366.30	373.56	329.60	587.24	864.66	0.00	0.00	864.66	864.66	864.66	864.66	864.66	864.66
Deferred Income tax	0.00	1.66	38.69	62.26	61.07			61.07	61.07	61.07	61.07	61.07	61.07
Minority Interest	0.00	0.00	1.64	26.16	26.07			26.07	26.07	26.07	26.07	26.07	26.07
Other liabilities	38.14	41.27	81.07	107.10	93.81			93.81	93.81	93.81	93.81	93.81	93.81
Total Liabilities	474.52	508.84	615.04	1,098.65	1,391.51	0.00	0.00	1,391.51	1,391.51	1,391.51	1,391.51	1,391.51	1,391.51
								1 '					·
Redeemable Preferred Stock	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Non-redeemable Preferred Stock	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Common Stock	0.03	0.03	0.04	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Additional Paid-in capital	299.52	300.54	380.30	507.20	554.00	0.00	0.00	554.00	554.00	554.00	554.00	554.00	554.00
Dividends Paid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Retained Earnings	16.38	9.74	67.05	161.73	180.00		0.00	180.00	206.98	233.95	260.93	287.91	314.88
Treasury Stock	-20.27	-19.32	-17.34	-16.45	-16.00		0.00	-16.00	-16.00	-16.00	-16.00	-16.00	-16.00
Other Equity	-33.70	-30.43	-50.29	-58.03	-58.03	L	0.00	-58.03	-58.03	-58.03	-58.03	-58.03	-58.03
Total Equity	261.96	260.56	379.76	594.45	659.97	0.00	0.00	659.97	686.95	713.92	740.90	767.88	794.85
Liability + Equity	736.48	769.40	994.80	1,693.10	2,051.48	0.00	0.00	2,051.48	2,078.46	2,105.43	2,132.41	2,159.39	2,186.36
	· ·					·		·	·				
Variance	-0.01	11.47	15.49	-1.79	1.80			1.80	1.80	1.80	1.80	1.80	1.80
B.1.15 ''			0					4.5.	4.6-	4.5			4.6-
Debt/Equity	1.40	1.43	0.87	0.99	1.31			1.31	1.26	1.21	1.17	1.13	1.09
Inventory Turnover	6.61	7.46	7.79	4.97	4.81			4.81	4.81	4.81	4.81	4.81	4.81
	55.25	48.91		73.45	75.85			4.81 75.85	75.85	4.81 75.85	75.85	4.81 75.85	4.81 75.85
Inventory Turnover Days			46.85										
Days Inventory Outstanding	59.86	55.46	55.52	87.60	87.19			90.47	87.19	87.19	87.19	87.19	87.19
Accounts Receivable Turnover	10.78	9.91	7.85	6.11	5.53			5.53	5.53	5.53	5.53	5.53	5.53
Accounts Receivalbe Turnover Days	33.87	36.85	46.52	59.70	65.96			65.96	65.96	65.96	65.96	65.96	65.96
Days Payable Outstanding	13.18	16.56	22.27	43.05	48.39			50.21	48.39	48.39	48.39	48.39	48.39
Days Sales Outstanding	33.87	36.85	46.52	59.70	65.96			59.70	65.96	65.96	65.96	65.96	65.96
Cash Conversion Cycle	80.54	75.75	79.77	104.25	104.75			99.96	104.75	104.75	104.75	104.75	104.75
· · · · · · · · · · · · · · · · · · ·													

FCF (Ops-Investing)

33.48

22.57

-30.50

LBO Adjusted Proforma Cash Flow

	12 months ending 2009-12-31	12 months ending 2010-12-31	12 months ending 2011-12-31	12 months ending 2012-12-31		2012	2013	2014	2015
Net Income	-24.64	-5.93	58.14	93.96	26.98	26.98	26.98	26.98	26.98
Depreciation	34.30	37.57	44.91	54.09	54.09	54.09	54.09	54.09	54.09
Net Income + Depreciation	9.66	31.64	103.05	148.05	81.07	81.07	81.07	81.07	81.07
Amortization	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Deferred Taxes	-2.95	-2.08	-0.45	17.17	0.00	0.00	0.00	0.00	0.00
Non Cash Items	10.72	15.26	16.48	-48.34	0.00	0.00	0.00	0.00	0.00
Change in Working capital	54.89	5.89	-114.65	13.29	0.00	0.00	0.00	0.00	0.00
Accounts Receivable	0.00	-21.49	-100.53	-108.27	0.00	0.00	0.00	0.00	0.00
Other Receivables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inventory	0.00	-8.00	-72.73	-175.51	0.00	0.00	0.00	0.00	0.00
Prepaid Expenses	0.00	13.22	-6.19	-35.34	0.00	0.00	0.00	0.00	0.00
Accounts Payable	0.00	11.03	41.29	103.49	0.00	0.00	0.00	0.00	0.00
Cash from Operating Activities	72.32	50.71	4.43	130.17	81.07	81.07	81.07	81.07	81.07
Capital Expenditures Expenditures	-39.54	-28.85	-35.74	-65.74	-30.00	-30.00	-30.00	-30.00	-30.00
Long term investment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Investing Activities	-1.36	0.11	-95.06	1.85	0.00	0.00	0.00	0.00	0.00
Cash from Investing Activities	-40.90	-28.74	-130.80	-63.89	-30.00	-30.00	-30.00	-30.00	-30.00
Financing Cash flow items	-7.11	-5.06	0.71	-1.09	0.00	0.00	0.00	0.00	0.00
Total Cash Dividends Paid	-0.70	-0.71	-0.81	-0.84	0.00	0.00	0.00	0.00	0.00
Issuance (Retirement) of Stock	1.14	0.28	0.52	0.93	0.00	0.00	0.00	0.00	0.00
Issuance (Retirement) of Current Portion Debt	-	-	-	-	0.00	0.00	0.00	0.00	0.00
Issuance (Retirement) of Long Term Debt	142.77	-6.17	15.96	-3.64	0.00	0.00	0.00	0.00	0.00
Cash from Financing Activities	136.10	-11.66	16.38	-4.64	0.00	0.00	0.00	0.00	0.00
Foreign Exchange effect	0.00	0.00	-0.33	-1.69	0.00	0.00	0.00	0.00	0.00
Beginning Cash Balance	61.66	229.18	239.50	129.17	508.45	559.52	610.58	661.65	712.72
Net Change in Cash	167.52	10.32	-110.33	59.94	51.07	51.07	51.07	51.07	51.07
Ending Cash Balance	229.18	239.50	129.17	189.11	559.52	610.58	661.65	712.72	763.78
Capex to Revenue	5.43%	3.27%	2.40%	3.61%	1.65%	1.65%	1.65%	1.65%	1.65%
Depreciation to Sales	4.71%	4.26%	3.02%	2.97%	2.97%	2.97%	2.97%	2.97%	2.97%
Amortization to Sales	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
A/R to Sales	9.28%	10.10%	12.75%						16.36%
A/n to odles	9.28%	10.10%	12./5%	16.36%	16.36%	16.36%	16.36%	16.36%	16.36%
Distributable FCF/EV Yield	2.39%	1.67%	-9.62%	5.04%	3.89%	3.89%	3.89%	3.89%	3.89%
Dividend Yield	-0.07%	-0.07%	-9.62%	-0.09%	0.00%	0.00%	0.00%	0.00%	0.00%
Dividend Held	-0.07%	-0.07%	-0.00%	-0.09%	0.00%	0.00%	0.00%	0.00%	0.00%

65.27

51.07

51.07

51.07

51.07

51.07

TWI

Ticker:

SN VALUATION	LBO Debt Schedule	

	Proforma	2013	2014	2015	2016	2017
Net Change in Cash	59.94	51.07	51.07	51.07	51.07	51.07
Current Portion Debt Repayment						
Long Term Debt Repayment						
Outstanding Debt	864.66	864.66	864.66	864.66	864.66	864.66
Current Portion Debt Balance	230.66	230.66	230.66	230.66	230.66	230.66
Long Term Debt Balance	634.00	634.00	634.00	634.00	634.00	634.00
Forward Libor Curve		3.00%	3.00%	3.00%	3.00%	3.00%
Spread		4.00%	4.00%	4.00%	4.00%	4.00%
Interest Rate		7.00%	7.00%	7.00%	7.00%	7.00%
Interest Expense		60.53	60.53	60.53	60.53	60.53
Cash Balance		189.11				
Interest @ 1.0%		1.89	1.89	1.89	1.89	1.89
Net Interest Expense/(Income)		58.64	58.64	58.64	58.64	58.64
Net Interest Rate		9.25%	9.25%	9.25%	9.25%	9.25%
EBITDA		100.14	100.14	100.14	100.14	100.14
EBITDA/Interest Expense Coverage		1.65	1.65	1.65	1.65	1.65

Interest Rate Coverage Table

Debt Rating					
AAA					
AA					
A+					
A					
A-					
BBB					
BB+					
BB					
B+					
В					
B-	B-	B-	B-	B-	B-
CCC					
CC					
С					
D					

Ticker:

TWI

^{*}Source: NYU; Professor Damodaran

Altman Z Sc	core	Company Nai	me:	Т	nal		Ticker:	TWI	
Period	2009	2010	2011	2012	2013	2014	2015	2016	2017
Working Capital	375.14	389.00	400.55	977.00	1,028.07	1,079.13	1,130.20	1,181.27	1,232.33
Total Assets	736.47	780.87	1,010.29	2,053.28	2,080.26	2,107.23	2,134.21	2,161.19	2,188.16
X1	0.51	0.50	0.40	0.48	0.49	0.51	0.53	0.55	0.56
Retained Earnings	16.38	9.74	67.05	180.00	206.98	233.95	260.93	287.91	314.88
Total Assets	736.47	780.87	1,010.29	2,053.28	2,080.26	2,107.23	2,134.21	2,161.19	2,188.16
X2	0.02	0.01	0.07	0.09	0.10	0.11	0.12	0.13	0.14
EBITDA	-18.89	30.94	116.03	174.70	100.14	100.14	100.14	100.14	100.14
Total Assets	736.47	780.87	1,010.29	2,053.28	2,080.26	2,107.23	2,134.21	2,161.19	2,188.16
Х3	-0.03	0.04	0.11	0.09	0.05	0.05	0.05	0.05	0.05
Market Value of Equity	958.01	958.01	958.01	958.01	968.78	979.68	990.70	1,001.84	1,013.11
Total Liabilities	474.52	508.84	615.04	1,391.51	1,391.51	1,391.51	1,391.51	1,391.51	1,391.51
X4	2.02	1.88	1.56	0.69	0.70	0.70	0.71	0.72	0.73
Net Sales	727.60	881.59	1,487.00	1,820.68	1,820.68	1,820.68	1,820.68	1,820.68	1,820.68
Total Assets	736.47	780.87	1,010.29	2,053.28	2,080.26	2,107.23	2,134.21	2,161.19	2,188.16
X5	0.99	1.13	1.47	0.89	0.88	0.86	0.85	0.84	0.83
Altman Z Score	2.76	3.00	3.35	2.27	2.18	2.21	2.24	2.27	2.30

Z = 1.2*X1 + 1.4*X2 + 3.3*X3 + 0.6*X4 + 1.0*X5

Z-SCORE ABOVE 3.0 –The company is considered 'Safe' based on the financial figures only.

Blue

Z-SCORE BETWEEN 2.7 and 2.99 - 'On Alert'. This zone is an area where one should 'Exercise Caution'.

Green

Z-SCORE BETWEEN 1.8 and 2.7 – Good chance of the company going bankrupt within 2 years.

Yellow

Z-SCORE BELOW 1.80- Probability of Financial Catastrophe is Very High.

Red

Year Tangible Book Value Annual Change
Annual FCF Annual Op. Cash Flow Annual PP&E Investment
Today's Tangible Book Value Intrinsic Value IRR
Market Price

Market Price IRR

Debt Equity **Total**

Present Value			Holding Perior	d			Terminal Valu	е	Sale Price
0	1	2	3	4	5	6	7	8	TBV at Year 5 + 3 Years FCF
635.03	662.01	688.98	715.96	742.94	769.91				769.91
	26.98	26.98	26.98	26.98	26.98				
64.43	51.07	51.07	51.07	51.07	51.07	51.07	51.07	51.07	153.20
130.17	81.07	81.07	81.07	81.07	81.07	81.07	81.07	81.07	
(65.74)	(30.00)	(30.00)	(30.00)	(30.00)	(30.00)	(30.00)	(30.00)	(30.00)	
635.03 3.93%	659.97	685.89	712.82	740.82	769.91				923.11

923.11

343.88

(135.13) 0.00

50.00%	479.00
50.00%	479.00
100.00%	958.01

950.92

943.89

936.92

929.99

923.11

958.01 -0.74%

		Present Value		Holding Period				Т	erminal Value	•	Sale Price
	Historic	ProForma	1	2	3	4	5				
Book Equity	659.97	479.00	493.45	507.90	522.35	536.79	551.24				
Goodwill	24.94	322.98	322.98	322.98	322.98	322.98	322.98				
Debt	634	1,113.00	1,113.00	1,113.00	1,113.00	1,113.00	1,113.00				
Debt Interest Rate		7.00%	7.00%	7.00%	7.00%	7.00%	7.00%				
Additional Interest Expense		19.28	19.28	19.28	19.28	19.28					
Tangible Book Value	635.03	156.03	170.47	184.92	199.37	213.82	228.26				228.26
Annual Change			14.45	14.45	14.45	14.45	14.45				
Annual FCF	64.43		38.54	38.54	38.54	38.54	38.54	38.54	38.54	38.54	115.61
Annual Net Income	95.55		14.45	14.45	14.45	14.45	14.45	14.45	14.45	14.45	
Annual Op. Cash Flow	130.17		68.54	68.54	68.54	68.54	68.54	68.54	68.54	68.54	
Dividend Payments											
Annual PP&E Investment	(65.74)		(30.00)	(30.00)	(30.00)	(30.00)	(30.00)	(30.00)	(30.00)	(30.00)	
Debt Paydown	0.00							0.00	0.00	0.00	

Sale Price in Year 5 Remaining Debt Balance

Capital Left for Equity Investor Dividend Payments Total Cash In Flow

> 479.00 -371.89 288.74 -224.17 174.04 -135.13 -177.64%

Invested Equity IRR

Value Creation

TBV Growth (equals sum of NI Year 1-5) Cash Flow (Year 6-8) 72.24 115.61 187.85

Value Dilution

Debt 479.00 298.04 Goodwill 96.38 Additional Intereset 873.42