

CATERPILLAR DEERE M&A Evaluation

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The Problem

- Should Caterpillar acquire Deere & Company?
 - Caterpillar CEO requested the advice of the Strategic Investments Department
 - Evaluate feasibility and effectiveness of the potential deal







The Solution





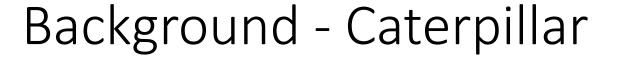


A Good Merger Opportunity

- Target acquisition price = \$38.6 billion
- Reasons for the acquisition
 - Positive industry outlook
 - Significant cost and revenue synergies
 - Compatible corporate cultures
 - Strong financial performance by Deere







- Four Operating Segments
 - Energy & Transportation
 - Construction Industries
 - Resource Industries
 - Financial Products
- Strong Distribution Network
 - 48 dealers in US
 - 130 dealers internationally









Background - Deere

- Three Operating Segments
 - Agriculture and Turf
 - Construction and Forestry
 - Financial Services
- Geographical Concentration
 - North America (62% of total revenues)











Industry Analysis



Industry Analysis

- Construction Machine Manufacturing
 - Caterpillar's current industry

- Tractors and Agricultural Manufacturing
 - Caterpillar's new potential industry









Construction Machine Manufacturing

Porter's Five Forces	Level
Intensity of Existing Rivalry	High
Threat of New Entrants	Low
Bargaining Power of Suppliers	Moderate
Bargaining Power of Buyers	Moderate
Threat of Substitutes	Low

Key point: Caterpillar and Deere are well-positioned within the industry





Construction Machine Manufacturing

- Key performance drivers
 - Global expansion
 - Caterpillar has a history of growth through acquisition
 - Technology innovation
 - Deere is recognized as an industry leader in R&D

Key point: Acquisition = beneficial strategic move









Tractors and Agricultural Manufacturing

- Positives
 - Deere has the largest market share (26.8%)
 - Industry revenue growth will be 3.8%
 - Strong global demand for food and biofuels



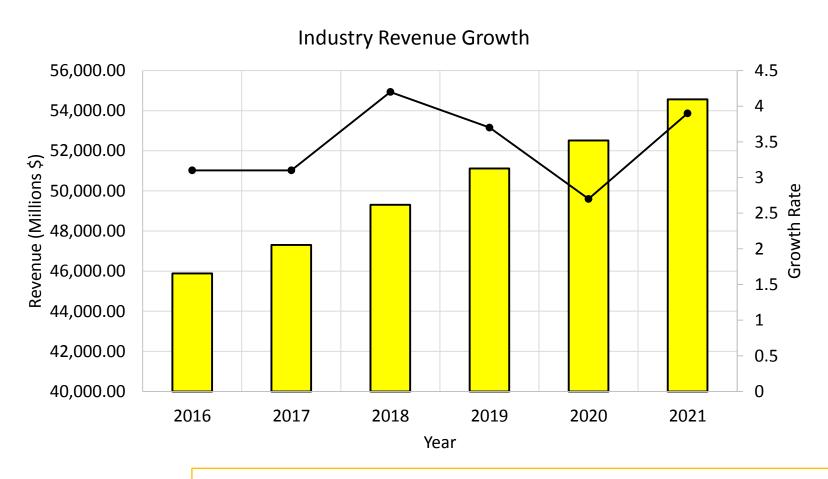
- Negatives
 - Industry is mature
 - Increasing interest rates













Key point: Acquisition = profitable opportunity



Financial Performance





Financial Performance

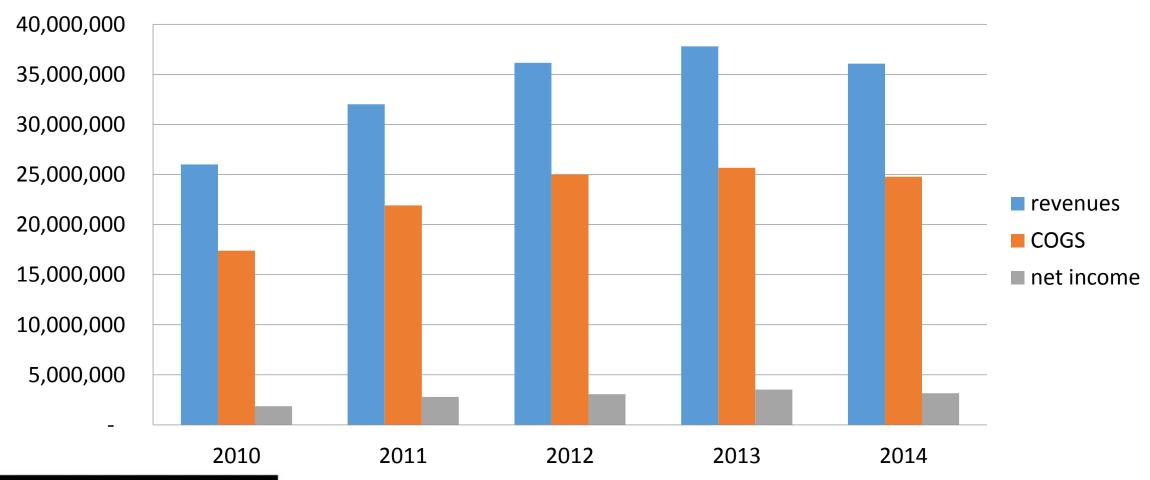
- Acquisition will add value
 - Added revenue streams
 - Long-term benefits from the effective use of cash flows for investing activities
 - Improved profitability ratios
 - Better stock performance







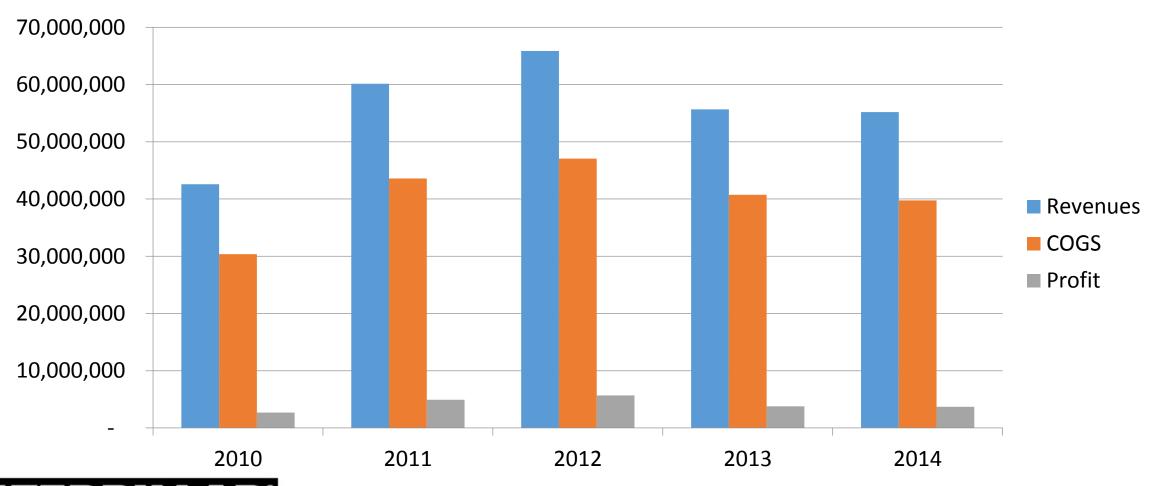
Deere 2010-14 (thousands)







Caterpillar 2010-14 (thousands)







Deere Cash Flow

- Net positive cash flow from operating activities
- \$3.52 billion for year-end 2014, an 8% increase over the last year
- 54% increase over the last five years
- OCF increase every year with the exception of 2012.







Deere Cash Flow

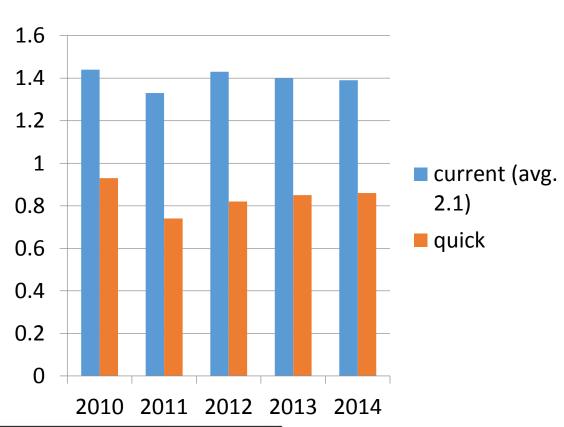
- Financing activities = negative amount of \$288 million in 2014.
- Repurchases of CS of \$2.731 billion
- Dividends paid of \$786 million
- Payment of dividends is encouraging news for current and prospective investors.
- CF investing activities = \$2.88 billion in 2014



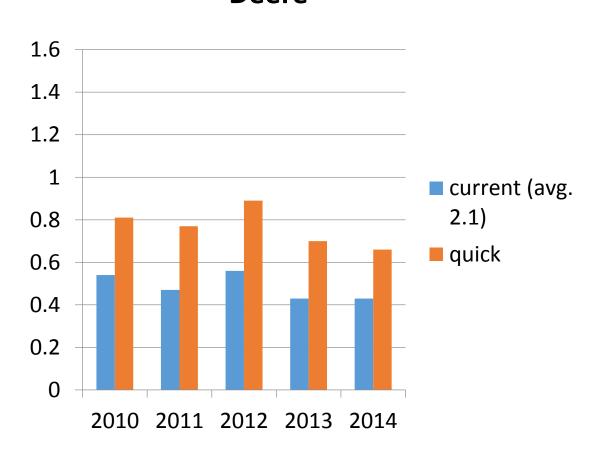


Liquidity Ratios

Caterpillar



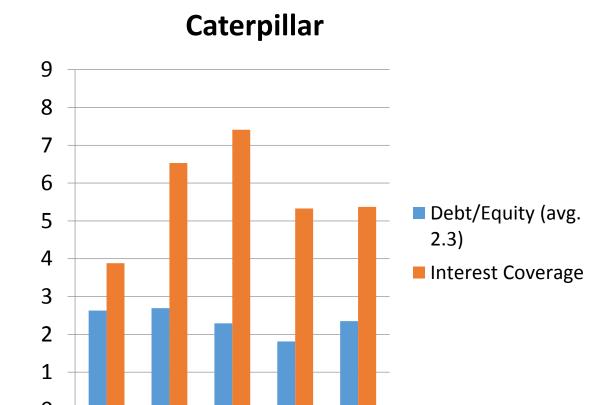
Deere

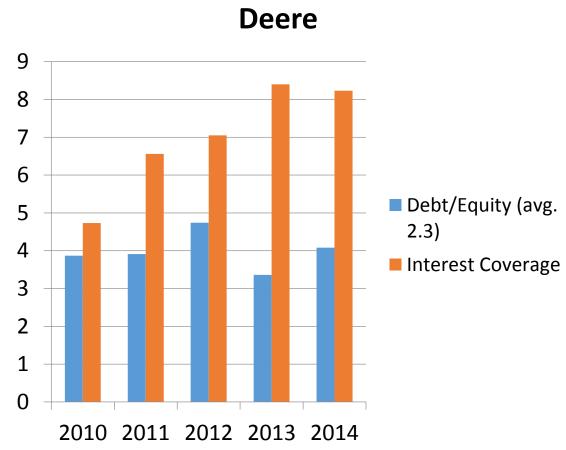






Solvency Ratios







2010 2011 2012 2013 2014



Profitability Ratios

Profitability Ratios	Deere YE 2014	Cat YE 2014
ROA % (Net)	5.23	4.36
ROE % (Net)	32.72	19.68
ROI % (Operating)	12.04	10.39
EBITDA Margin %	17.07	16.28



Stock Performance



Deere & Company (DE) * Watchlist

93.51 -0.12(-0.13%) NYSE - As of 4:04PM EDT







Synergies: Are the combined parts greater than the whole?

An analysis to determine what Synergies exist if there were a merger based on an understanding of each companies' SWOTs





What would happen if the two were to be combined?











CATERPILLAR'S SWOT



Strengths	Weaknesses
Strong portfolio of brands and diversified geographic presence help to mitigate business risks Expansive dealer and distributor network helps to expand its customer base and market share Customer driven product innovation capabilities strengthen competitiveness and drives growth	Weak financial performance could have an adverse impact on the long-term growth prospects Breach of restrictive covenants in debt agreements could negatively impact business Legal proceedings could have a material adverse effect on the consolidated results of operation, financial position or liquidity
Opportunities	Threats
Positive outlook for the global construction, farm machinery and heavy trucks market could provide growth opportunities Strategic acquisitions could support business growth and expansion Focus on local market demand could help to reduce cost and grow business	Stiff competition may negatively impact sales volume as well as margins Changes in government monetary and fiscal policies may negatively impact business results Price changes or shortage of commodities and components may adversely impact the ability to meet commitments to customers



DEERE's SWOT



Strengths	Weaknesses
Robust dealer network Broad product portfolio Strong emphasis on research and development	Geographic concentration
Opportunities	Threats
Positive outlook for the global construction, farm machinery and heavy trucks market could provide growth opportunities Growing footprint in the emerging nations Focus on core business to enhance business prospects	Intense competition from global players Foreign currency risk Stringent engine and greenhouse gas emission standards







Synergies when you combine Strengths

Strong portfolio of brands and diversified The Broad product portfolio geographic presence help to mitigate business risks

Expansive dealer and distributor network Robust dealer network helps to expand its customer base and market share

Customer driven product innovation capabilities strengthen competitiveness and drives growth Strong emphasis on research and development





Is CAT able to directly eliminate any weakness by DEERE having a complimentary strength?

Weaknesses

Weak financial performance could have an adverse impact on the long-term growth prospects

Breach of restrictive covenants in debt agreements could negatively impact business

Legal proceedings could have a material adverse effect on the consolidated results of operation, financial position or liquidity

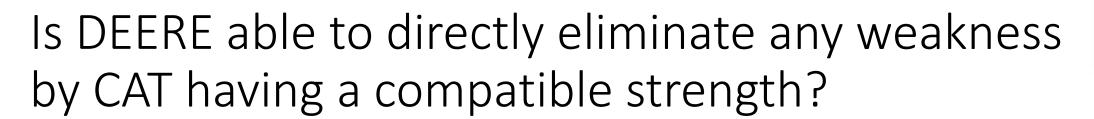
Strengths

Robust dealer network
Broad product portfolio
Strong emphasis on research and development











Strengths

Strong portfolio of brands and diversified geographic presence help to mitigate business risks

Expansive dealer and distributor network helps to expand its customer base and market share

Customer driven product innovation capabilities strengthen competitiveness and drives growth

Weaknesses

Geographic concentration







Effectively DEERE's Weaknesses are now its Strengths!

Strengths

Strong portfolio of brands and diversified geographic presence help to mitigate business risks

Expansive dealer and distributor network helps to expand its customer base and market share

Customer driven product innovation capabilities strengthen competitiveness and drives growth

Weaknesses





Do any of Deere's Strengths Align With Opportunities for CAT?



Opportunities

Positive outlook for the global construction, farm machinery and heavy trucks market could provide growth opportunities
Strategic acquisitions could support business growth and expansion
Focus on local market demand could help to reduce cost and grow business

Strengths

Robust dealer network
Broad product portfolio
Strong emphasis on research and
development





Do any of CAT's Strengths Align With Opportunities for DEERE?



Strengths

Strong portfolio of brands and diversified geographic presence help to mitigate business risks
Expansive dealer and distributor network helps to expand its customer base and market share
Customer driven product innovation capabilities strengthen competitiveness and drives growth

Opportunities

Positive outlook for the global construction, farm machinery and heavy trucks market could provide growth opportunities

Growing footprint in the emerging nations

Focus on core business to enhance business prospects





Do any of CAT's Strengths Align With Opportunities for DEERE?



Strengths

geographic presence help to mitigate business risks
Expansive dealer and distributor network helps to expand its customer base and market share

Opportunities

Focus on core business to enhance business prospects







Are any Threats mitigated by combining?

Threats

Stiff competition may negatively impact sales volume as well as margins Changes in government monetary and fiscal policies may negatively impact business results

Price changes or shortage of commodities and components may adversely impact the ability to meet commitments to customers

Threats

Intense competition from global players Foreign currency risk Stringent engine and greenhouse gas emission standards





CATERPILLAR ELIMINATES MOST OF DEERE'S THREATS

Strengths

Expansive dealer and distributor network helps to expand its customer base and market share

Threats

Intense competition from global players Foreign currency risk







Summary of Synergies

Cost Synergies:

- Less overall spending in:
 - R&D
 - Legal fees
 - Financing and Banking
 - Acquisitions
 - Commodity Markets for raw materials







Summary of Synergies

Revenue Synergies:

- Superior product portfolio
- Enhanced global footprint and concentration
 - Emerging markets
 - China, Brazil, India
- Footprint in the agriculture and turf industries
- Less competition combined with more Cross selling







Summary of Synergies

Reciprocal Knowledge-Based Synergies:

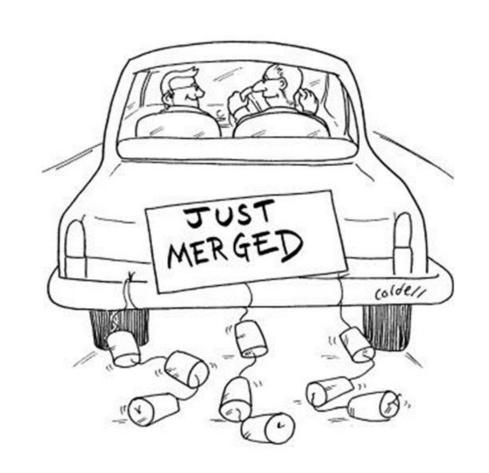
- Less competition for acquisitions
 - More buyer power
- Greater possibilities combining R&D
- Upgrades in technology across the board and better products focusing on:
 - Price savings
 - Performance management







Leadership & Culture







Values

Deere

- Trust
- Commitment
- Innovation
- Integrity



- Trust
- Commitment
- Innovation
- Integrity





Trust & Commitment





Innovation





Deere

Eichberg Consulting 2012
 Most Innovative Agricultural
 Equipment Manufacturer

Caterpillar

CAT

 Doug Oberhelman, Chairman and CEO of Caterpillar, presented with the 2014 Leadership in American Manufacturing Award









Facilitation

- Caterpillar
 - "Adjust leadership style to meet the needs of those whom we serve."
 - Flexible to accommodate a new culture
 - Willing to learn from Deere's core values





Facilitation

- Deere
 - Strongly rooted in the company's traditional values.
 - Culture with extreme pride in its origins.
 - Unique and strong customer base, an asset acquired through:
 - Quality
 - Innovation
 - Integrity
 - Commitment to People



The Result



CATERPILLAR®









What Happens to Deere Management?

 "Some researchers have argued that the acquired executives are crucial resources: they are not easily replaceable and their departure causes significant social and decision-making issues resulting in the acquisition of less value."

Tyutyunova, Ksenia. "CEO Turnover in Post-acquisition Integration Processes: Impact of Individual Characteristics and Cross-border Factor." *Master of Science Thesis Stockholm, Sweden 2013* (2013): 1-42. Web. 21 July 2015.





Golden Parachute

 Caterpillar could be responsible for up to \$60.9 million to
 Samuel Allen







Contingency Plan

Rajesh Kalathur

- Senior Vice President
- Chief Financial Officer since 2012
- Deere employee since 1996
- Prime candidate to lead Deere post acquisition







Business Risks





Risks Significant to Caterpillar

- Competition
 - competitive pricing, as it relates to fluctuations in commodity prices and currency
- Environmental laws and regulations
 - fines and penalties
 - R&D







Competition







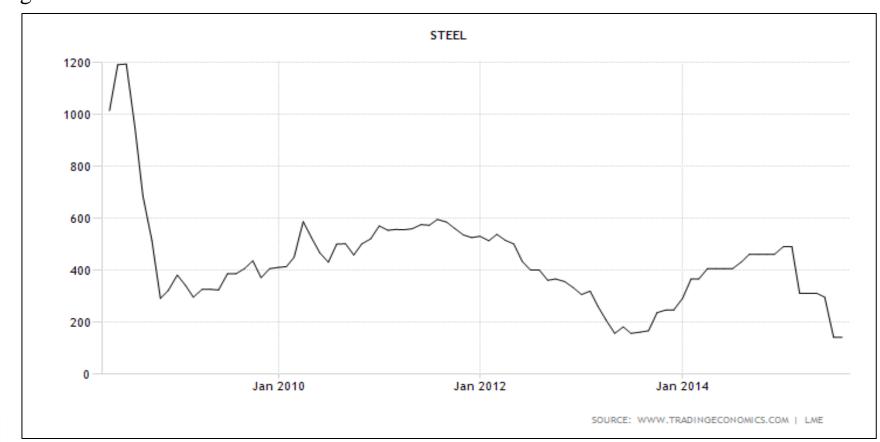




Competitive Pricing: Fluctuations in the Price of Steel

Figure 1: Price of Steel per Ton, 2008 – 2015

Source: Trading Economics: Steel





Competitive Pricing: Fluctuations in Currency





- Yen advantage
 - recent 20 percent plunge in the yen against the dollar
 - pressuring Caterpillar's market share and margins
- Aggressive pricing strategies
 - increasing average product prices every year regardless of fluctuations in currency





Acquisition of Deere

- Eliminate competition between Caterpillar and Deere!
- Substantially reduce Caterpillar's exposure to competitive pricing





Environmental Laws and Regulations

- Subject to increasingly stringent environmental laws and regulations
- Failure to comply exposes Caterpillar to various fines and penalties

• Caterpillar has incurred and continues to incur significant R&D costs in an effort to comply with these standards





What can Deere offer?

- Access to R&D!
- Deere has consistently invested heavily in R&D for the past few years

• \$1.45 billion, \$1.47 billion and \$1.43 billion in FY2014, FY2013 and

FY2012, respectively, in R&D







Risks Significant to Deere

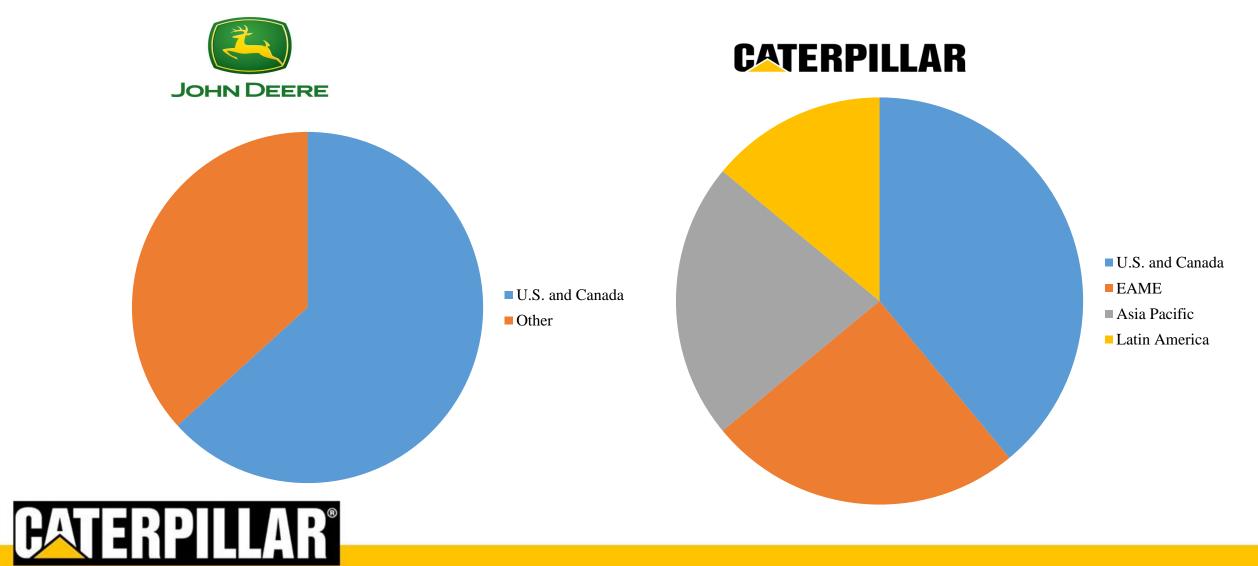
- Geographic concentration in U.S. and Canada
 - over-dependence on U.S. and Canadian markets
- Currency translation risk
 - assets denominated in the currencies of other countries
 - currency fluctuations







Geographic Concentration





Currency Translation Risk

• Reported items denominated in the currencies of foreign countries

• Fluctuations in the exchange rates between other currencies and the

US dollar

• Hedging as a form of protection







Overall Risk Analysis

- Acquisition would:
 - significantly reduce competition
 - give access to Deere's R&D
 - give access to Caterpillar's global distribution network

• From a risk-standpoint, we recommend the acquisition of Deere & Co. by Caterpillar Inc.





Antitrust Laws











- Sherman Act
- Federal Trade Commission Act
- Clayton Act

The government makes laws that promote competition!

Sherman Antitrust Act

1890

The Clayton Act

1914





Purpose of Antitrust Laws

Promote fair competition

- Prohibit monopolistic combinations
- Prevent unfair market concentration







Market Concentration

- Caterpillar and Deere combined would capture 34.4% market share
 - Antitrust laws do not provide a numeric threshold for what constitutes a violation
 - Based on written law, there is no clear evidence that this merger would be prevented
 - However, in practice, the FTC may require certain remedies in order to allow a questionable merger





Structural and Conduct Remedies

- Structural remedies
 - Divestment of assets
- Conduct remedies
 - A written provision that governs the business conduct of an entity after a merger takes place
- Generally, the FTC will not allow stand-alone conduct remedies
 - In the case of Caterpillar and Deere, structural remedies will likely be required





Example: Exxon/Mobil

- Merger took place in 1998
 - Combined US market share would be 14%
 - The issue was the degree of concentration in specific US markets rather than the total market share
 - FTC required divestment of assets
 - Assets accounted for 15% of the company's overlapping retail outlets





How Does this Apply to CAT and Deere?

- CAT and Deere's only area of overlap is construction and forestry equipment manufacturing
- If the FTC required Deere to divest 15% of the overlapping assets
 - US construction and forestry sales would likely decrease by 15%
 - US construction and forestry sales were about 11.1% of total Deere revenues
 - Result would be a decrease of only 1.7% of revenues (i.e. 11.1% x 0.15)
- Conclusion
 - The merger will likely be permitted from a legal standpoint with only minimal financial impact





Valuation





Valuation of Deere

- Objective: Determine the value of Deere and Company to Caterpillar
- Approaches:
 - Ratio Analysis
 - Discounted Cash Flow







Key Ratios

Key Ratios								
	Deere	Caterpillar	Industry Average					
	Current	Current	Current					
Price/Earnings	13.5	13.9	13.8					
Price/Cash Flow	7.7	7.4	7.5					
Price/Free Cash Flow	22.6	13.9	15.6					
Dividend Yield %	2.55	3.55	2.6					
Price/Book	3.94	3.09	2.8					
Price/Sales	0.98	0.96	0.8					





Market Value of Deere's Performance to Deere

Deere & Co. Market Capitalization as a subsidary of Caterpillar based on Price/Earnings							
	Deere		Caterpillar		DE(Projected)		
Market Capitalization	\$	32,200,000,000	\$	52,400,000,000	\$ 33	,277,475,700	
Share Price	\$	96.55	\$	86.82	\$	99.66	
Earnings Per Share	\$	7.17	\$	6.24			
Shares Outstanding		333,900,000		603,700,000		333,900,000	
Price/Earnings		13.50		13.90		13.90	





Discounted Cash Flow

- 3 Variables Required:
 - Current Cash Flow from Operations
 - Discount Rate (Caterpillar)
 - Growth Rate (Deere and Company)

$$Value = CF * \frac{(1+g)^1}{(1+DR)^1} + \cdots CF * \frac{(1+g)^t}{(1+DR)^t}$$





Cash Flows From Operations

- Cash Flow from Operations:
 - \$3.5 billion (10-K; 12/29/2014)
 - Effective Tax Rate 28% (provided in tax note to 10-K; 12/29/2014)
 - After Tax Cash Flow generated from operations:
 - ·\$2,640,176,000





Growth Rate

• Top Estimate: 20%

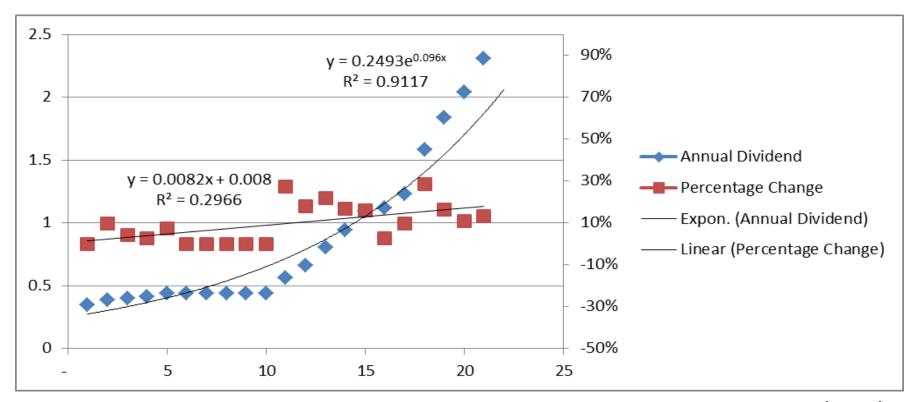
• Low Estimate: 0%

Median Estimate: 13.0145%





Calculation of Median Growth Rate



g	Year		
10%	2008		
11%	2009		
12%	2010		
13%	2011		
15%	2012		
16%	2013		
μ	13.01%		

Derivative of regression = $7479 e^{(12x/125)/312,500}$ Average derivative from 2008 - 2014

g = 13.0145%





Discount Rate: WACC Caterpillar

$$WACC = \frac{E}{D+E} (r_e) + \frac{D}{D+E} (r_d)(1-t)$$

$$Where:$$

$$E = \text{market value of equity}$$

$$D = \text{market value of debt}$$

$$r_e = \text{cost of equity}$$

$$r_d = \text{cost of debt}$$

$$t = \text{corporate tax rate}$$







	Total Outstanding	Weighted Average Rate
Short Term Debt	44,424,000	0.944%
Long Term Debt	27,784,000,000	5.243%
Equity	16,826,000,000	9.878%
	44,654,424,000	
Effective Tax Rate		28.000%
2014 Caterpillar WACC		6.071%





Discount Rate: Buildup Method

Buildup Method	
Yield on 20 year US Treasury (July 9, 2015)	2.800%
Equity Risk Premium	5.500%
Size Premium	2.000%
Industry Premium	6.000%
Company Specific Premium	6.000%
	22.300%





Result of Discounted Cash Flows

		Growth Rate	
Discount Rate	0%	13.0145%	20%
WACC (6.07%)	\$ 22,006,561,217	\$ 40,681,808,386	\$ 58,009,482,778
Build Up (22.30%)	\$ 12,898,051,202	\$ 20,184,529,727	\$ 26,459,516,958





Valuation Conclusion

Assume a 20% control premium to market value

• Target value \$38.6 -- \$40.7 Billion





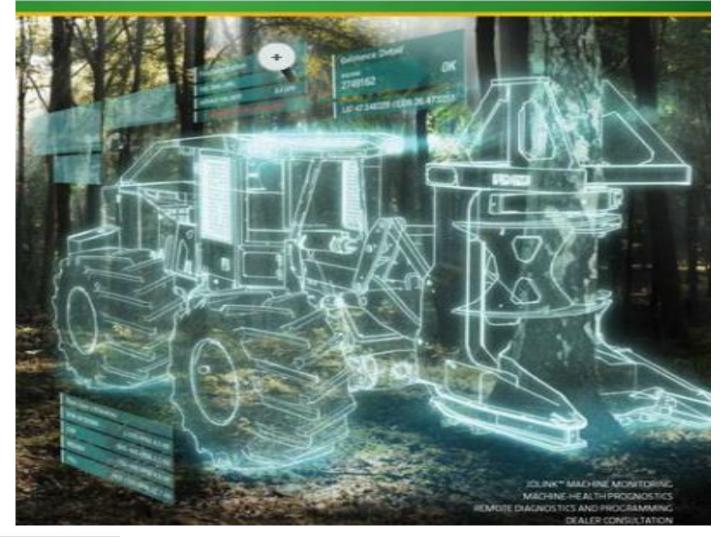
Technology and Analytics



John Deere ForestSight"

















Value Creation for Caterpillar Using Analytics

- Two major aspects
 - Analytics to improve Caterpillar's own operations
 - Analytics to benefit Caterpillar's customers' operations









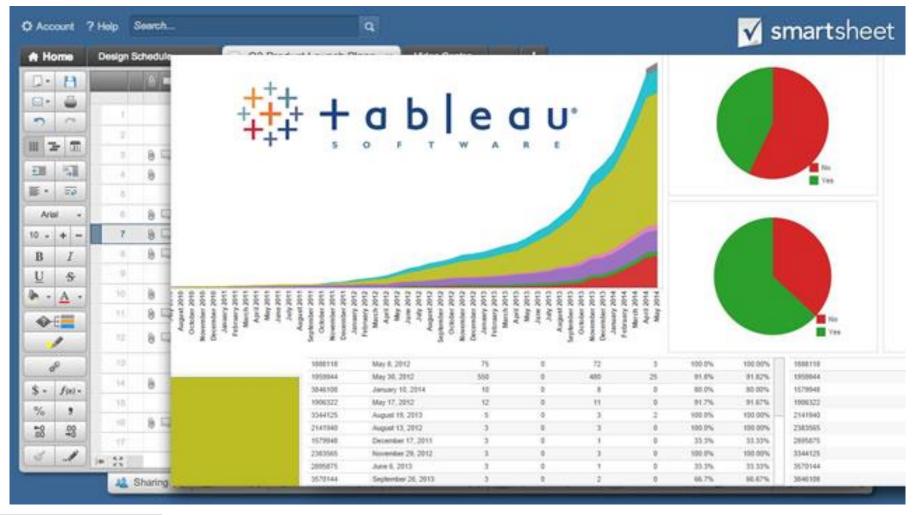
Opportunities to Automate at Caterpillar

Category	Risk	Business Objective
Financial	Lost sales volume	Profitability
Strategic	Bad M&A decisions	Growth
Operational	Production inefficiencies	Minimize manufacturing cycle time
Compliance	Anti-competitive lawsuits	Maintain positive public image











Big Data

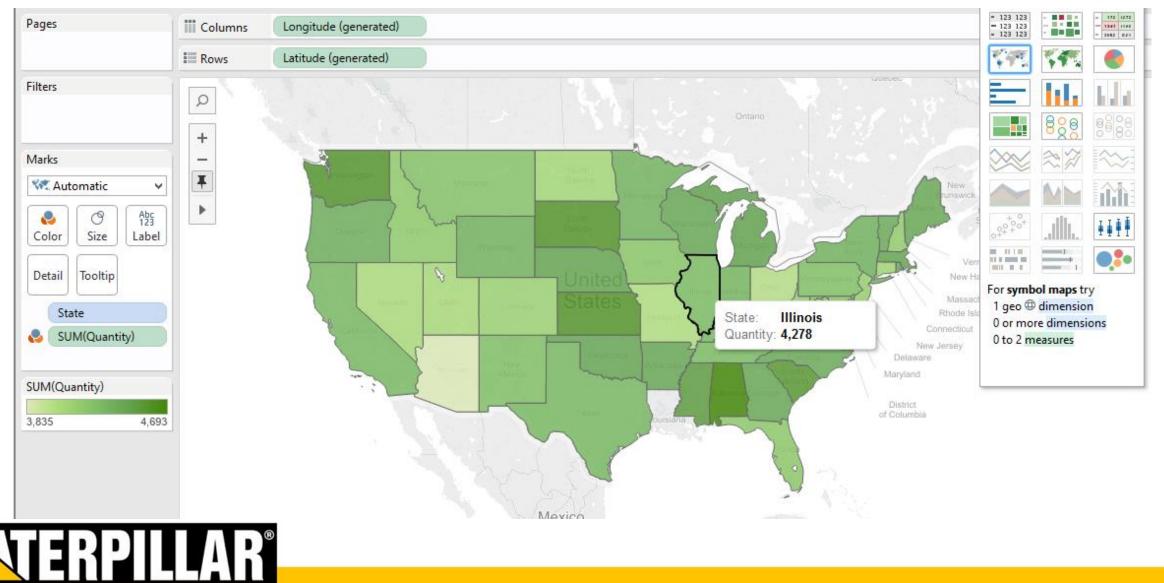


В	С	D	Е	F	G	Н	I
Date	Quantity	Sales	Profit	Unit Price	Country	State	Equipment Type
3/8/2012	19	\$1,871,500	\$224,580	98,500	United States	New Jersey	Backhoe Loaders
11/11/2012	17	\$6,715,000	\$604,350	395,000	United States	New York	Articulated Trucks
11/11/2012	24	\$9,480,000	\$853,200	395,000	United States	Alabama	Articulated Trucks
6/29/2009	34	\$8,160,000	\$489,600	240,000	United States	Illinois	Excavators
2/16/2009	37	\$3,644,500	\$437,340	98,500	United States	New Jersey	Backhoe Loaders
2/16/2009	15	\$5,925,000	\$533,250	395,000	United States	Mississippi	Articulated Trucks
12/27/2010	34	\$3,349,000	\$401,880	98,500	United States	Maine	Backhoe Loaders
11/25/2010	37	\$14,615,000	\$1,315,350	395,000	United States	Oregon	Articulated Trucks
11/25/2010	16	\$6,320,000	\$568,800	395,000	United States	Washington	Articulated Trucks
11/25/2009	7	\$689,500	\$82,740	98,500	United States	Washington	Backhoe Loaders
8/19/2012	46	\$11,040,000	\$662,400	240,000	United States	Ohio	Excavators
3/24/2009	42	\$4,137,000	\$496,440	98,500	United States	Pennsylvania	Backhoe Loaders
3/29/2012	50	\$19,750,000	\$1,777,500	395,000	United States	Rhode Island	Articulated Trucks
12/16/2011	49	\$4,826,500	\$579,180	98,500	United States	Texas	Backhoe Loaders
12/16/2011	22	\$2,167,000	\$260,040	98,500	United States	California	Backhoe Loaders
8/27/2010	39	\$15,405,000	\$1,386,450	395,000	United States	New York	Articulated Trucks
12/10/2011	32	\$7,680,000	\$460,800	240,000	United States	Illinois	Excavators
10/19/2012	28	\$2,758,000	\$330,960	98,500	United States	Tennesse	Backhoe Loaders
10/28/2011	19	\$1,871,500	\$224,580	98,500	United States	Kentucky	Backhoe Loaders
10/28/2011	20	\$1,970,000	\$236,400	98,500	United States	Arkansas	Backhoe Loaders
10/28/2011	35	\$3,447,500	\$413,700	98,500	United States	Oklahoma	Backhoe Loaders
2/13/2012	15	\$1,477,500	\$177,300	98,500	United States	Kansas	Backhoe Loaders

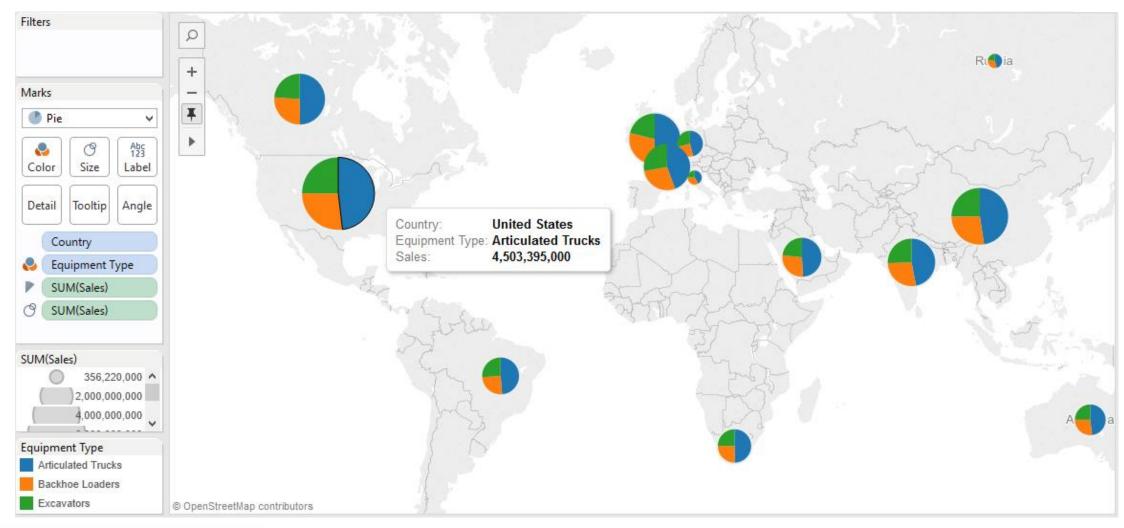


Data Visualization – Sales Quantity by State





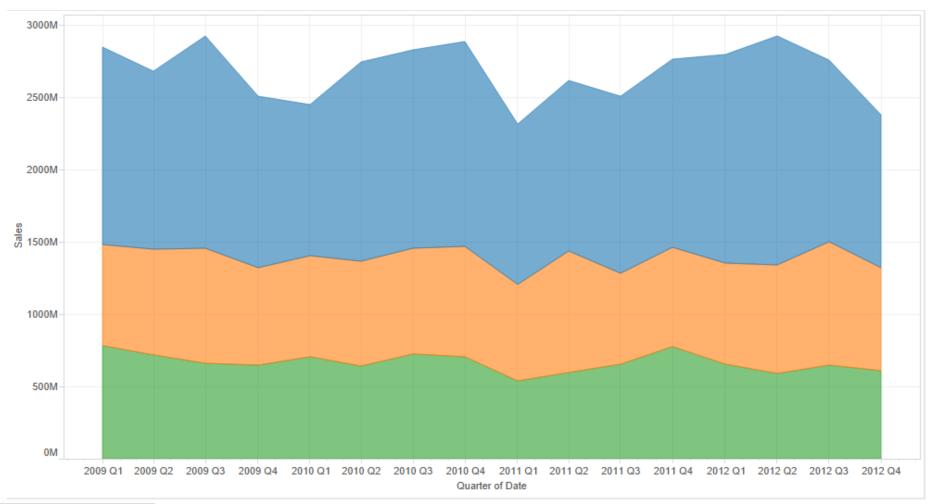
Data Visualization – Global Sales by Equipment Type





Continuous Sales Monitoring









>>> webbrowser.open(tabUrl+term,new=new);

```
gsearch.py - C:\Users\Timothy\Documents\Rutgers\Summer 2015\Advanced Audi... - 

File Edit Format Run Options Window Help

import webbrowser

new=2

Sublime Text

tabUrl="http://google.com/?#q=";

term= input("Enter search query: ");

webbrowser.open(tabUrl+term, new=new);
```

```
Python 3.4.3 Shell

File Edit Shell Debug Options Window Help

Python 3.4.3 (v3.4.3:9b73f1c3e601, Feb 24 2015, 22:43:06) [MSC v.1600 32 bit (In tel)] on win32

Type "copyright", "credits" or "license()" for more information.

>>> import webbrowser

>>> new=2

>>> tabUrl="http://google.com/?#q=";

>>> term= input("Enter search query: ");

Enter search query: Caterpillar
```

Python Terminal

Text Mining

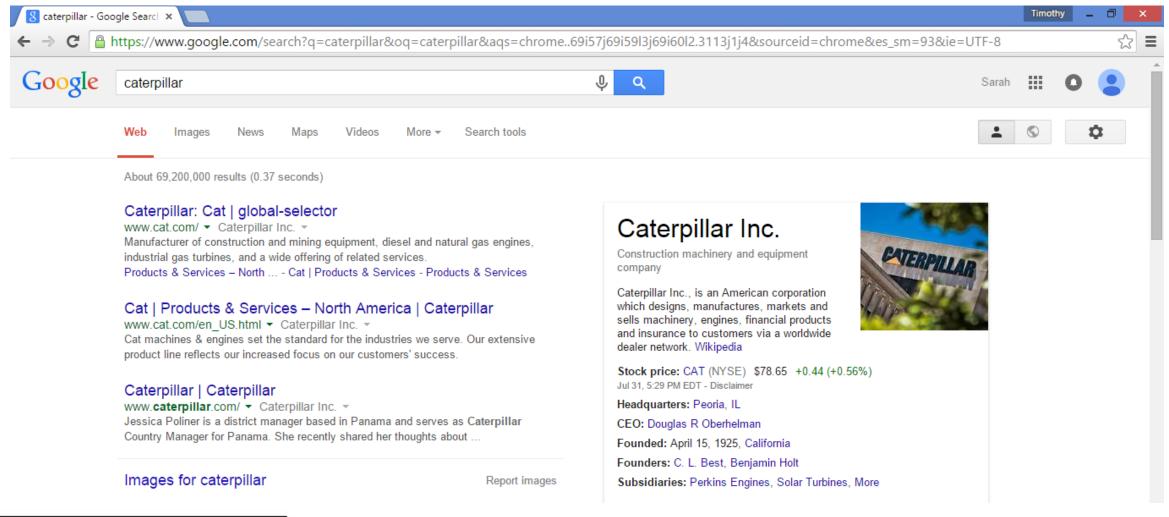


True >>>

Ln: 10 Col: 4

Python Output Result

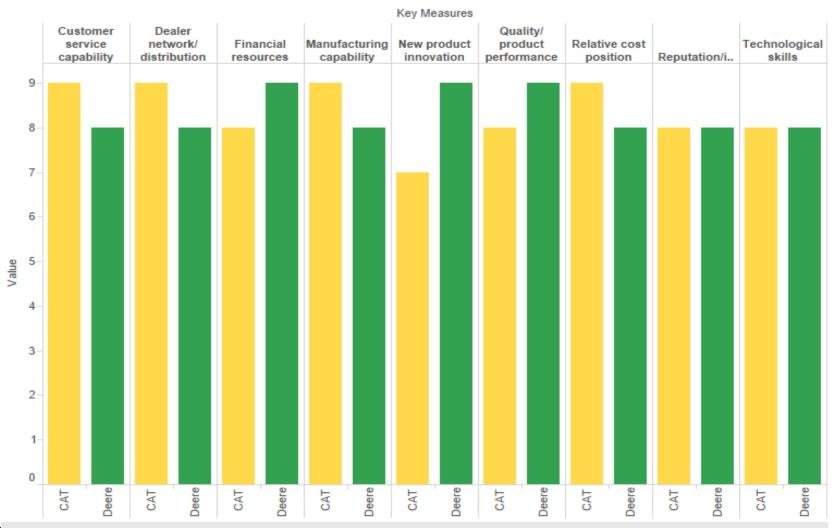






Text Mining to Assess Potential Merger









Opportunities to Automate for Customers

Category	Risk	Business Objective
Financial	Cash flow crunch	Cost control
Strategic	Ineffective resource allocation	Accurate project scheduling
Operational	Delays due to part failures	Meet project deadlines
Compliance	OSHA safety violations	Safe jobsite and avoid penalties



Equipment Sensor Data



Α	В	С	D	E	F	G	Н	l I
Equipment ID	Equipment Type	Quantity	City	State	Fuel Efficiency (Gal/Hr)	Operating Time (Hours)	Idle Time (Hrs)	Fuel Capacity (Gallons)
B113	Backhoe Loader	1	Charlotte	North Carolina	7.00	3	2	35
B114	Backhoe Loader	1	New Haven	Connecticut	5.00	5	2	35
B115	Backhoe Loader	1	Lexington	Kentucky	3.50	7	3	35
B116	Backhoe Loader	1	Lexington	Kentucky	3.50	7	3	35
B117	Backhoe Loader	1	Lexington	Kentucky	3.18	7	4	35
B118	Backhoe Loader	1	Lexington	Kentucky	2.92	7	5	35
B119	Backhoe Loader	1	Lexington	Kentucky	3.18	7	4	35
B120	Backhoe Loader	1	Lexington	Kentucky	3.18	7	4	35
E101	Excavator	1	New York	New York	6.82	8	3	75
E102	Excavator	1	New York	New York	7.50	8	2	75
E103	Excavator	1	New York	New York	8.33	8	1	75
E104	Excavator	1	Trenton	New Jersey	12.50	4	2	75
E105	Excavator	1	Trenton	New Jersey	10.71	4	3	75
E106	Excavator	1	Trenton	New Jersey	10.71	4	3	75
E107	Excavator	1	Trenton	New Jersey	12.50	4	2	75
E108	Excavator	1	Trenton	New Jersey	12.50	4	2	75
E109	Excavator	1	Pittsburgh	Pennsylvania	12.50	3	3	75
E110	Excavator	1	Pittsburgh	Pennsylvania	10.71	3	4	75
E111	Excavator	1	Baltimore	Maryland	10.71	4	3	75
E112	Excavator	1	Baltimore	Maryland	10.71	4	3	75
E113	Excavator	1	Baltimore	Maryland	9.38	4	4	75
F11/I	Eveavator	1	Richmond	Virginia	8 33	_ 5	4	75





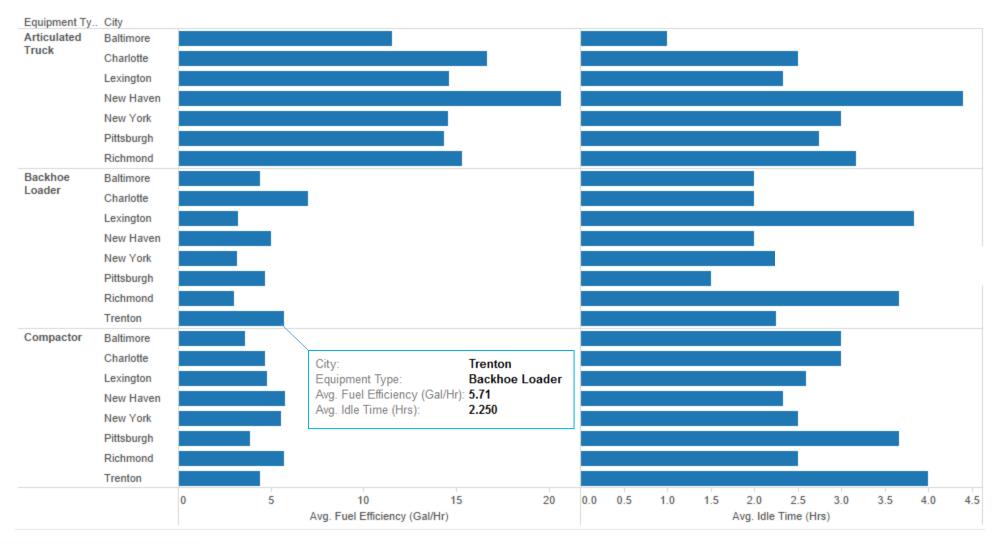
Fleet Monitoring

iii Columns	City							
Rows	Equipment Type							
				Ci	ity			
Equipment Type	Baltimore	Charlotte	Lexington	New Haven	New York	Pittsburgh	Richmond	Trenton
Articulated Truck	1	2	3	5	2	4	3	
Backhoe Loader	2	1	6	1	1	2	3	4
Compactor	1	3	5	3	2	3	2	
Dozer	3	2	4	3	4	1	1	
Excavator	3	3	3		3	2	1	:



Fuel Efficiency and Idle Times Monitoring









Time to Merge

CATERPILLAR + DEERE =













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Questions?



