



PROJECT WORKBOOK
THE INDONESIA 2015 EDITION

“Talk is cheap. Time for action”

Your data...

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- Data Packet
 - Page 1: HDS (Bloomberg) – Top 17 stockholders
 - Page 2: Beta (Bloomberg) – 2 year weekly return beta
 - Pages 3-7: DES (Bloomberg) – 5 page description of your company
 - Page 8: FA - Summary financial information for your company
 - Page 9: CRPR – Bond Rating or Bloomberg Default Risk Assessment
 - Page 10 : DDIS: Debt due table (with maturities)
- Checklist before you start
 - What country is your company incorporated in?
 - What currency are the financial statements in? (Not necessarily in the local currency)
 - What currency is your market capitalization and stock price stated in? (May not match the currency of the financial statements)
 - What was the most recent fiscal year? (For most of your companies, it will be a year ending December... but some may have other year ends)

Source for data: Will vary across markets. 13F is SEC filing for US mutual/pension funds

Percent of outstanding shares in company

CLX US \$ ↓ 67.69 -.68 N Z67.69/67.70N 2x2
 DELAY 12:46 Vol 477,149 Op 68.02 T Hi 68.15 D Lo 67.69 D EquityHDS
 ValTrd 32406448

CLX US Equity 94) Matrix 95) Searches 96) Actions Page 1/59 Holdings Search
 Clorox Co/The CUSIP 18905410

21) Sources 22) Types 23) Countries 24) Metro Areas 25) Advanced Filters

Name Filter Sort By Amount Held

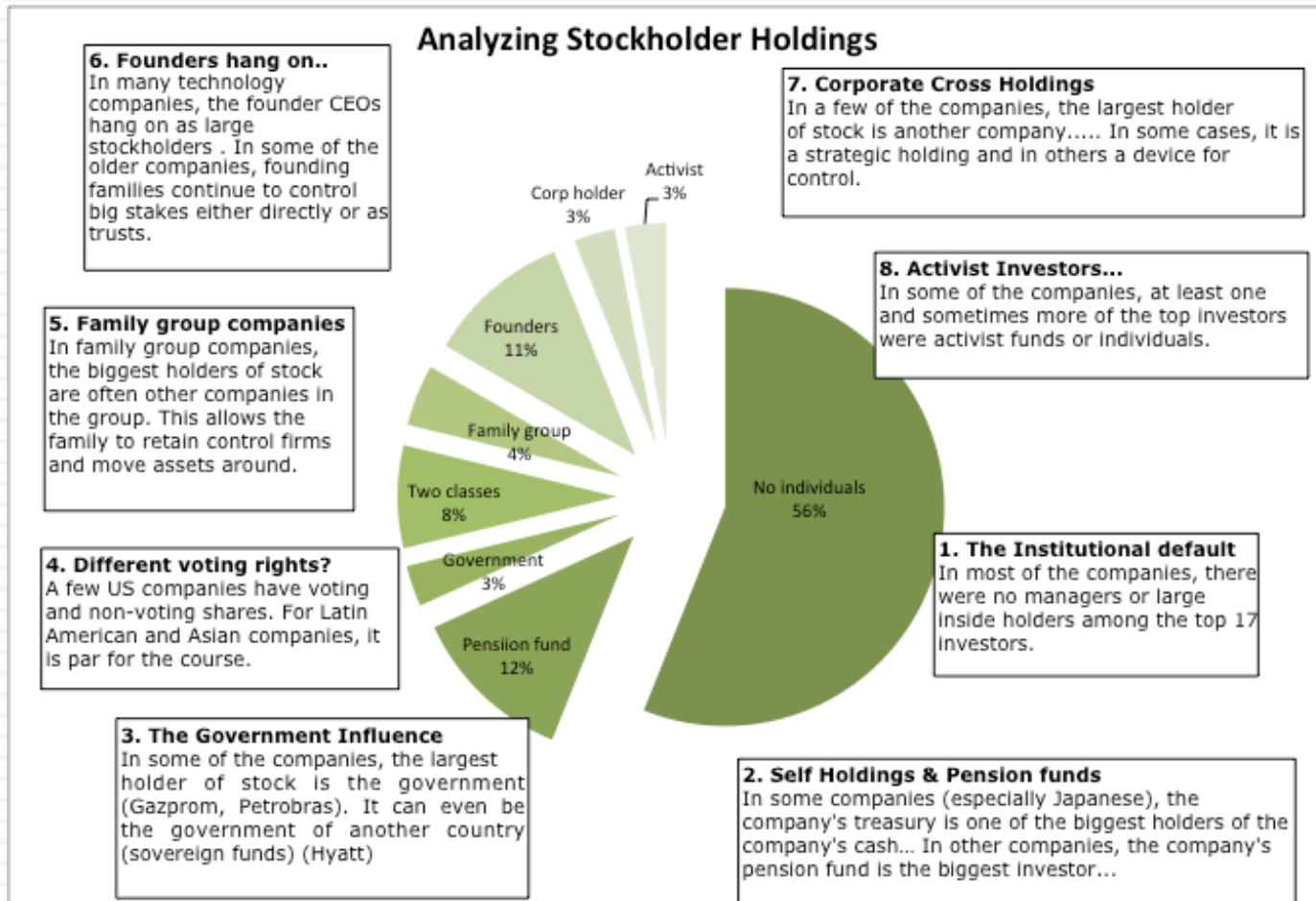
	Holder Name	Portfolio Name	Source	Amt Held	% Out	Latest Chg	File Dt
1)	STATE STREET CORP	STATE STREET CORP	13F	7,146,776	5.42	-17,404	9/30/11
2)	T ROWE PRICE ASSOCIA	T ROWE PRICE ASSO	13F	5,720,708	4.34	-932,710	9/30/11
3)	ICAHN CAPITAL LP	n/a	13D	5,269,902	4.00	-409,040	12/1/11
4)	VANGUARD GROUP INC	VANGUARD GROUP I	13F	5,245,936	3.98	14,804	9/30/11
5)	BANK OF NEW YORK MEL	BANK OF NEW YORK	13F	3,598,774	2.73	534,429	9/30/11
6)	BLACKROCK INSTITUTI	BLACKROCK INSTITU	13F	3,292,072	2.50	99,924	9/30/11
7)	CEDAR ROCK CAPITAL L	CEDAR ROCK CAPITA	13F	3,039,579	2.30	0	9/30/11
8)	BLACKROCK FUND ADVI	BLACKROCK FUND A	13F	3,037,674	2.30	260,898	9/30/11
9)	YACKTMAN ASSET MANA	YACKTMAN ASSET M	13F	2,838,416	2.15	43,451	9/30/11
10)	AMERICAN CENTURY CO	AMERICAN CENTURY	13F	2,482,939	1.88	547,080	9/30/11
11)	NORTHERN TRUST CORP	NORTHERN TRUST C	13F	1,626,955	1.23	21,579	9/30/11
12)	BANK OF AMERICA COR	BANK OF AMERICA	13F	1,494,001	1.13	-154,787	9/30/11
13)	WELLS FARGO ADVISOR	WELLS FARGO ADVIS	13F	1,492,126	1.13	205,296	9/30/11
14)	ICAHN ASSOCIATES COR	n/a	13D	1,317,476	1.00	-10,721,720	12/1/11
15)	ANCHOR CAPITAL ADVIS	ANCHOR CAPITAL AD	13F	1,043,507	0.79	-375,230	9/30/11
16)	HUSSMAN ECONOMETRIC	HUSSMAN ECONOMET	13F	921,000	0.70	-477,000	9/30/11
17)	PRINCIPAL FINANCIAL	PRINCIPAL FINANCI	13F	860,976	0.65	9,528	9/30/11

26) Latest Chg: 27) Hist Held: % Out on Page 38.23

Australia 61 2 9777 8600 Brazil 5511 3048 4500 Europe 44 20 7330 7500 Germany 49 69 9204 1210 Hong Kong 852 2977 6000
 Japan 81 3 3201 8900 Singapore 65 6212 1000 U.S. 1 212 318 2000 Copyright 2012 Bloomberg Finance L.P.
 SN 636136 EST GMT-5:00 H003-570-3 13-Jan-2012 13:01:36

Corporate Governance: Assessing where the power lies and potential conflicts of interest

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The Indonesian Sample

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<i>Company</i>	<i>Biggest Holder</i>	<i>Holding</i>	<i>Other comments</i>
Krakatau Steel	Republic of Indonesia	80.00%	
Bumi Resources	Long Haul Holdings	23.15%	5 FII on list
Lippo Karawacki	Pacific Asia Holdings	17.88%	Blackrock, Vanguard etc.
Gudang Garam	Sutyaduta Investama	69.29%	Blackrock
Perushann Gas	Republic of Indonesia	56.97%	Blackrock again
Semen Indonesia	Republic of Indonesia	51.01%	Blackrock, Vanguard
United Tractors	PT Astra	59.50%	Blackrock and other FII
Media Nusantra	Global Mediacom	65.32%	Blackrock and FII
Indosat	Coredoo Asia	65.00%	4 FII

Local Currency Government Bond Rates – July 2015

<i>Currency</i>	<i>Govt Bond Rate (6/30/15)</i>	<i>Currency</i>	<i>Govt Bond Rate (6/30/15)</i>
Australian \$	3.07%	Malyasian Ringgit	4.03%
Brazilian Reai	12.58%	Mexican Peso	6.12%
British Pound	2.18%	Nigerian Naira	14.15%
Bulgarian Lev	3.15%	Norwegian Krone	1.92%
Canadian \$	1.86%	NZ \$	3.38%
Chilean Peso	4.63%	Pakistani Rupee	10.05%
Chinese Yuan	3.62%	Peruvian Sol	6.38%
Colombian Peso	7.22%	Phillipine Peso	4.38%
Croatian Kuna	3.26%	Polish Zloty	3.24%
Czech Koruna	0.92%	Romanian Leu	4.00%
Danish Krone	1.15%	Russian Ruble	11.14%
Euro	0.92%	Singapore \$	2.72%
HK \$	1.85%	South African Rand	8.30%
Hungarian Forint	3.93%	Swedish Krona	1.03%
Iceland Krona	7.10%	Swiss Franc	0.16%
Indonesian Rupee	7.85%	Taiwanese \$	1.51%
Indonesian Rupiah	8.31%	Thai Baht	2.97%
Israeli Shekel	2.39%	Turkish Lira	9.14%
Japanese Yen	0.45%	US \$	2.47%
Kenyan Shilling	13.02%	Venezuelan Bolivar	12.25%
Korean Won	2.48%	Vietnamese Dong	6.79%

Approach 1: Default spread from Government Bonds

BONDS: HIGH YIELD & EMERGING MARKET										
Jun 26	Red date	Coupon	Ratings			Bid price	Bid yield	Day's chge yield	Mth's chge yield	Spread vs US
			S*	M*	F*					
High Yield US\$										
Windstream Services, LLC	11/17	7.88	BB-	B1	BB	107.44	4.53	0.01	0.18	3.87
High Yield Euro										
Kazkommerts Intl BV	02/17	6.88	B	Caa1	B	94.88	-	0.00	0.00	-
Emerging US\$										
Peru	05/16	8.38	BBB+	A3	BBB+	105.95	1.25	0.01	0.01	0.59
Mexico	09/16	11.40	BBB+	A3	BBB+	112.18	1.19	0.05	0.38	0.53
Brazil	01/18	8.00	BBB-	Baa2	BBB	108.28	4.56	-0.08	-0.01	3.90
Russia	07/18	11.00	BB+	Ba1	BBB-	121.65	3.52	0.02	0.16	2.86
Peru	03/19	7.13	BBB+	A3	BBB+	116.32	2.55	0.02	0.25	0.81
Brazil	01/21	7.88	BBB-	Baa2	BBB	104.28	4.05	0.03	0.36	2.31
Turkey	03/21	5.63	-	Baa3	BBB-	107.70	4.15	0.03	0.35	2.41
Poland	04/21	5.13	A-	A2	A-	110.77	3.11	0.03	0.34	1.37
Colombia	07/21	4.38	BBB	Baa2	BBB	104.38	3.59	0.03	0.25	1.85
Turkey	04/26	4.25	-	Baa3	BBB-	95.45	4.85	0.05	0.23	2.39
Emerging Euro										
Brazil	02/15	7.38	BBB-	Baa2	BBB	111.75	0.73	0.00	0.00	0.09
Mexico	07/17	4.25	BBB+	A3	BBB+	111.13	1.50	0.00	0.00	0.84
Mexico	02/20	5.50	BBB+	-	BBB+	109.87	3.17	0.01	0.36	1.43
Bulgaria	09/25	5.75	BB+	-	BBB-	115.89	3.89	0.03	0.29	1.43

Data provided by SIX Financial Information & Tullett Prebon Information. US \$ denominated bonds NY close; all other London close. *S - Standard & Poor's, M - Moody's, F - Fitch.

The Brazil Default Spread

Brazil 2021 Bond: 4.05%

US 2021 T.Bond: 1.75%

Spread: 2.30%

The Indonesia Default Spread

Indonesia does not have dollar or Euro denominated bonds outstanding.

Approach 2: CDS Spreads – July 2015

Country	Moody's rating	CDS Spread	CDS Spread adj for US	Country	Moody's rating	CDS Spread	CDS Spread adj for US	Country	Moody's rating	CDS Spread	CDS Spread adj for US
Abu Dhabi	Aa2	0.97%	0.56%	India	Baa3	2.37%	1.96%	Portugal	Ba1	2.71%	2.30%
Australia	Aaa	0.61%	0.20%	Indonesia	Baa3	2.60%	2.19%	Qatar	Aa2	1.01%	0.60%
Austria	Aaa	0.57%	0.16%	Ireland	Baa1	1.13%	0.72%	Romania	Baa3	1.73%	1.32%
Bahrain	Baa3	3.21%	2.80%	Israel	A1	1.06%	0.65%	Russia	BA1	3.59%	3.18%
Belgium	Aa3	0.85%	0.44%	Italy	Baa2	2.03%	1.62%	Saudi Arabia	Aa3	0.93%	0.52%
Brazil	Baa2	3.32%	2.91%	Japan	A1	0.84%	0.43%	Slovakia	A2	0.99%	0.58%
Bulgaria	Baa2	2.26%	1.85%	Kazakhstan	Baa2	2.88%	2.47%	Slovenia	Baa3	1.78%	1.37%
Chile	Aa3	1.04%	0.63%	Korea	Aa3	0.84%	0.43%	South Africa	Baa2	2.73%	2.32%
China	Aa3	1.52%	1.11%	Latvia	A3	1.43%	1.02%	Spain	Baa2	1.73%	1.32%
Colombia	Baa2	2.32%	1.91%	Lebanon	B2	4.03%	3.62%	Sweden	Aaa	0.36%	0.00%
Costa Rica	Ba1	3.78%	3.37%	Lithuania	A3	1.39%	0.98%	Switzerland	Aaa	0.31%	0.00%
Croatia	Ba1	3.25%	2.84%	Malaysia	A3	2.01%	1.60%	Thailand	Baa1	1.64%	1.23%
Cyprus	B3	5.15%	4.74%	Mexico	A3	1.93%	1.52%	Tunisia	Ba3	3.33%	2.92%
Czech Republic	A1	0.94%	0.53%	Morocco	Ba1	2.29%	1.88%	Turkey	Baa3	2.81%	2.40%
Denmark	Aaa	0.44%	0.03%	Netherlands	Aaa	0.41%	0.00%	United Kingdom	Aa1	0.41%	0.00%
Egypt	B3	3.70%	3.29%	New Zealand	Aaa	0.65%	0.24%	United States of America	Aaa	0.41%	0.00%
Estonia	A1	0.88%	0.47%	Norway	Aaa	0.31%	0.00%	Vietnam	B1	2.90%	2.49%
Finland	Aaa	0.53%	0.12%	Pakistan	B3	4.95%	4.54%				
France	Aa1	0.76%	0.35%	Panama	Baa2	1.98%	1.57%				
Germany	Aaa	0.41%	0.00%	Peru	A3	2.01%	1.60%				
Hong Kong	Aa1	0.70%	0.29%	Philippines	Baa2	1.55%	1.14%				
Hungary	Ba1	2.16%	1.75%	Poland	A2	1.30%	0.89%				

Approach 3: Typical Default Spreads: July 2015

Brazil
Rating = Baa2
Spread = 1.9%

<i>Sovereign Rating</i>	<i>Default Spread over riskfree</i>
Aaa	0.00%
Aa1	0.40%
Aa2	0.50%
Aa3	0.60%
A1	0.70%
A2	0.85%
A3	1.20%
Baa1	1.60%
Baa2	1.90%
Baa3	2.20%
Ba1	2.50%
Ba2	3.00%
Ba3	3.60%
B1	4.50%
B2	5.50%
B3	6.50%
Caa1	7.50%
Caa2	9.00%
Caa3	10.00%

Indonesia
Rating = Baa3
Spread = 2.2%

Getting to a risk free rate in a currency: Examples

- The Brazilian government bond rate in nominal reais in July 2015 was 12.58%.
 - Approach 1: Government Bond spread
 - The 2021 Brazil bond, denominated in US dollars, has a spread of 2.30% over the US treasury bond rate.
 - Riskfree rate in \$R = $12.58\% - 2.30\% = 10.28\%$
 - Approach 2: The CDS Spread
 - CDS spread for Brazil, adjusted for the US CDS, on July 1, 2015 was 2.91%.
 - Riskfree rate in \$R = $12.58\% - 2.91\% = 9.67\%$
 - Approach 3: The Rating based spread
 - Brazil has a Baa2 local currency rating, with a default spread of 1.90%.
 - Riskfree rate in \$R = $12.58\% - 1.90\% = 10.68\%$

- The Indonesian government bond rate in rupiah in July 2015 was 8.31%.
 - Approach 2: The CDS Spread
 - CDS spread for India, adjusted for the US CDS, on July 1, 2015 was 2.19%.
 - Riskfree rate in Rupiah = $8.31\% - 2.19\% = 6.12\%$
 - Approach 3: The Rating based spread
 - Indonesia has a Baa3 local currency rating, with a default spread of 2.20%.
 - Riskfree rate in Rupiah = $8.31\% - 2.20\% = 6.11\%$

Risk free Rates: By Currency – July 2015

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<i>Governments with no default risk</i>		<i>Governments with default risk</i>	
<i>Currency</i>	<i>Risk free Rate</i>	<i>Currency</i>	<i>Risk free Rate</i>
Australian \$	3.07%	Brazilian Reai	10.68%
Canadian \$	1.86%	British Pound	1.78%
Danish Krone	1.15%	Bulgarian Lev	1.25%
Euro	0.92%	Chilean Peso	4.03%
Norwegian Krone	1.92%	Chinese Yuan	3.02%
NZ \$	3.38%	Colombian Peso	5.32%
Singapore \$	2.72%	Croatian Kuna	0.76%
Swedish Krona	1.03%	Czech Koruna	0.22%
Swiss Franc	0.16%	HK \$	1.45%
US \$	2.47%	Hungarian Forint	1.43%
		Iceland Krona	4.90%
		Indonesian Rupee	5.65%
		Indonesian Rupiah	6.11%
		Israeli Shekel	1.69%
		Japanese Yen	-0.25%
		Kenyan Shilling	8.52%
		Korean Won	1.88%
		Malyasian Ringgit	2.83%
		Mexican Peso	4.92%
		Nigerian Naira	10.55%
		Pakistani Rupee	2.55%
		Peruvian Sol	5.18%
		Phillipine Peso	2.48%
		Polish Zloty	2.39%
		Romanian Leu	1.80%
		Russian Ruble	9.24%
		South African Rand	6.40%
		Taiwanese \$	0.91%
		Thai Baht	1.37%
		Turkish Lira	6.94%
		Venezuelan Bolivar	4.75%
		Vietnamese Dong	2.29%

Risk free Rate: Desperation Time?

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- It is entirely possible that you may be unable to find a government bond issued in the local currency (that is traded) or that you do not trust the government bond rate as a fair market interest rate. There are two ways you can get to a risk free rate, in this case.
- 1. Build up approach: The risk free rate in any currency can be written as the sum of two variables:

Risk free rate = Expected Inflation in currency + Expected real interest rate

The expected real interest rate can be computed in one of two ways: from the US TIPs rate or set equal to real growth in the economy. Thus, if the expected inflation rate in a country is expected to be 15% and the TIPs rate is 1%, the risk free rate is 16%.

- 2. US \$ rate & Differential Inflation: Alternatively, you can scale up the US \$ risk free rate by the differential inflation between the US \$ and the currency in question:

$$\text{Risk free rate}_{\text{Currency}} = (1 + \text{Riskfree rate}_{\text{US \$}}) \frac{(1 + \text{Expected Inflation}_{\text{Foreign Currency}})}{(1 + \text{Expected Inflation}_{\text{US \$}})} - 1$$

Thus, if the US \$ risk free rate is 3.04%, the inflation rate in the foreign currency is 15% and the inflation rate in US \$ is 2%, the foreign currency risk free rate is as follows:

$$\text{Risk free rate} = (1.0304) \frac{(1.15)}{(1.02)} - 1 = 16.17\%$$

ERP : July 2015

Andorra	8.21%	2.40%	Guernsey	6.41%	0.60%	Netherlands	5.81%	0.00%
Austria	5.81%	0.00%	Iceland	9.11%	3.30%	Norway	5.81%	0.00%
Belgium	6.71%	0.90%	Ireland	8.21%	2.40%	Portugal	9.56%	3.75%
Cyprus	15.56%	9.75%	Isle of Man	6.41%	0.60%	Spain	8.66%	2.85%
Denmark	5.81%	0.00%	Italy	8.66%	2.85%	Sweden	5.81%	0.00%
Finland	5.81%	0.00%	Jersey	6.41%	0.60%	Switzerland	5.81%	0.00%
France	6.41%	0.60%	Liechtenstein	5.81%	0.00%	Turkey	9.11%	3.30%
Germany	5.81%	0.00%	Luxembourg	5.81%	0.00%	UK	6.41%	0.60%
Greece	19.31%	13.50%	Malta	7.61%	1.80%	W. Europe	6.97%	1.16%

Canada	5.81%	0.00%
United States	5.81%	0.00%
North America	5.81%	0.00%

Albania	12.56%	6.75%	Lithuania	7.61%	1.80%
Armenia	11.21%	5.40%	Macedonia	11.21%	5.40%
Azerbaijan	9.11%	3.30%	Moldova	15.56%	9.75%
Belarus	17.06%	11.25%	Montenegro	11.21%	5.40%
Bosnia	15.56%	9.75%	Poland	7.09%	1.28%
Bulgaria	8.66%	2.85%	Romania	9.11%	3.30%
Croatia	9.56%	3.75%	Russia	9.56%	3.75%
Czech Republic	6.86%	1.05%	Serbia	12.56%	6.75%
Estonia	6.86%	1.05%	Slovakia	7.09%	1.28%
Georgia	11.21%	5.40%	Slovenia	9.11%	3.30%
Hungary	9.56%	3.75%	Ukraine	23.81%	18.0%
Kazakhstan	8.66%	2.85%	E. Europe	9.71%	3.90%
Latvia	7.61%	1.80%			

Argentina	17.06%	11.25%
Belize	19.31%	13.50%
Bolivia	11.21%	5.40%
Brazil	8.66%	2.85%
Chile	6.71%	0.90%
Colombia	8.66%	2.85%
Costa Rica	9.56%	3.75%
Ecuador	15.56%	9.75%
El Salvador	11.21%	5.40%
Guatemala	9.56%	3.75%
Honduras	15.56%	9.75%
Mexico	7.61%	1.80%
Nicaragua	15.56%	9.75%
Panama	8.66%	2.85%
Paraguay	9.56%	3.75%
Peru	7.61%	1.80%
Suriname	11.21%	5.40%
Uruguay	8.66%	2.85%
Venezuela	20.81%	15.00%
Latin America	10.29%	4.48%

Country	ERP	CRP
Angola	10.31%	4.50%
Botswana	7.09%	1.28%
Burkina Faso	15.56%	9.75%
Burkina Faso	15.56%	9.75%
Cameroon	14.06%	8.25%
Cape Verde	14.06%	8.25%
Congo (DR)	15.56%	9.75%
Congo (Republic of)	11.21%	5.40%
Cote d'Ivoire	12.56%	6.75%
Egypt	15.56%	9.75%
Ethiopia	12.56%	6.75%
Gabon	11.21%	5.40%
Ghana	15.56%	9.75%
Kenya	12.56%	6.75%
Morocco	9.56%	3.75%
Mozambique	12.56%	6.75%
Namibia	9.11%	3.30%
Nigeria	11.21%	5.40%
Rwanda	14.06%	8.25%
Senegal	12.56%	6.75%
South Africa	8.66%	2.85%
Tunisia	11.21%	5.40%
Uganda	12.56%	6.75%
Zambia	12.56%	6.75%
Africa	11.61%	5.80%

Abu Dhabi	6.56%	0.75%
Bahrain	9.11%	3.30%
Israel	6.86%	1.05%
Jordan	12.56%	6.75%
Kuwait	6.56%	0.75%
Lebanon	14.06%	8.25%
Oman	6.86%	1.05%
Qatar	6.56%	0.75%
Ras Al Khaimah	7.09%	1.28%
Saudi Arabia	6.71%	0.90%
Sharjah	7.61%	1.80%
UAE	6.56%	0.75%
Middle East	6.91%	1.10%

Bangladesh	11.21%	5.40%	Mauritius	8.21%	2.40%
Cambodia	14.06%	8.25%	Mongolia	14.06%	8.25%
China	6.71%	0.90%	Pakistan	15.56%	9.75%
Fiji	12.56%	6.75%	Papua NG	12.56%	6.75%
Hong Kong	6.41%	0.60%	Philippines	8.66%	2.85%
India	9.11%	3.30%	Singapore	5.81%	0.00%
Indonesia	9.11%	3.30%	Sri Lanka	12.56%	6.75%
Japan	6.86%	1.05%	Taiwan	6.71%	0.90%
Korea	6.71%	0.90%	Thailand	8.21%	2.40%
Macao	6.56%	0.75%	Vietnam	12.56%	6.75%
Malaysia	7.61%	1.80%	Asia	7.31%	1.50%

Australia	5.81%	0.00%
Cook Islands	12.56%	6.75%
New Zealand	5.81%	0.00%
Australia & NZ	5.81%	0.00%

Black #: Total ERP
 Red #: Country risk premium
 AVG: GDP weighted average

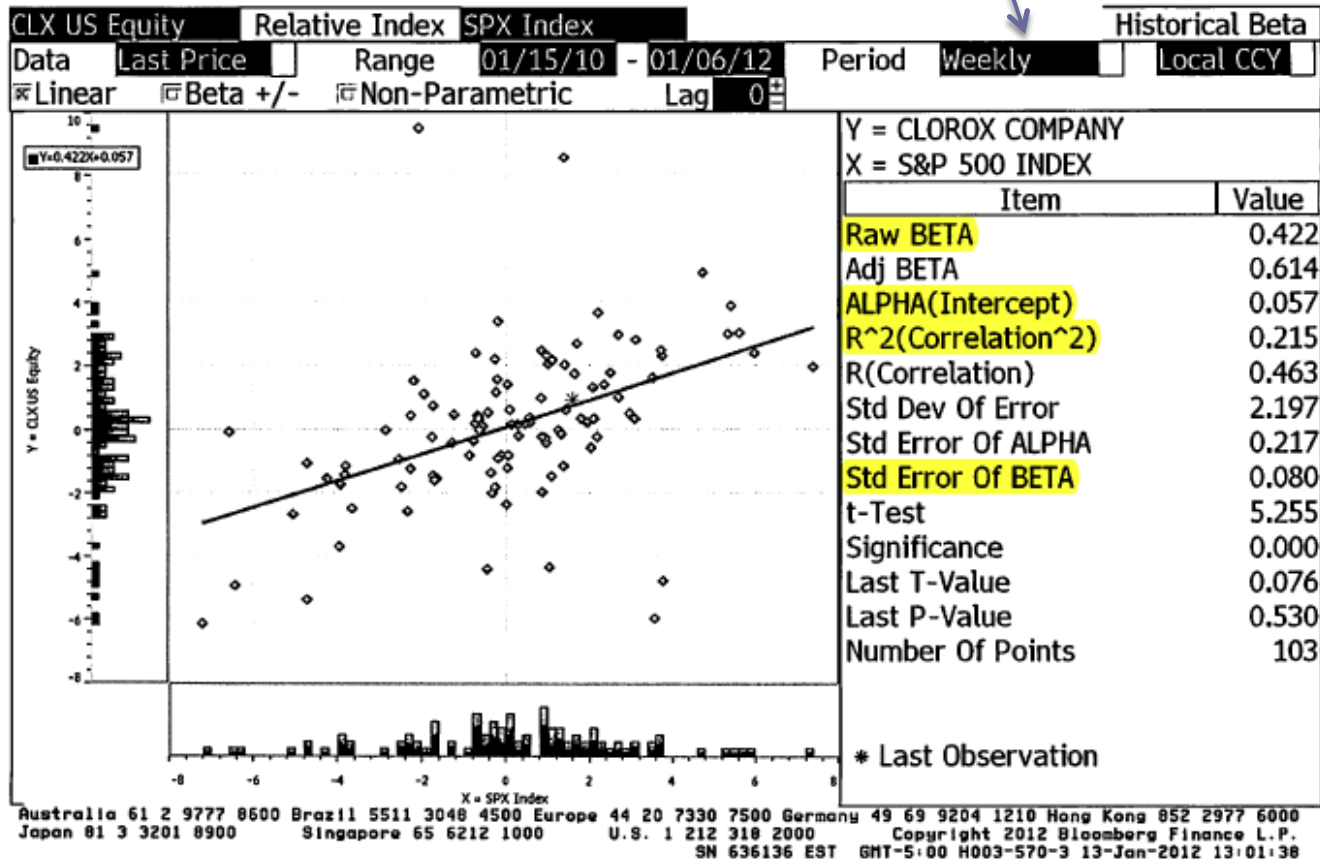
<i>Company</i>	<i>Exposure</i>	<i>Revenues</i>	<i>Proportion</i>	<i>ERP</i>	<i>Weighted ERP</i>
Krakatau	Indonesia	1889	100.00%	9.11%	9.11%
Bumi Resources	Indonesia	2800	39.47%	9.11%	7.9%
	Rest of Asia	3547	50.00%	7.23%	
	Europe	704	9.92%	6.97%	
	United States	43	0.61%	5.81%	
Lippo Karawacki	Indonesia	12028	100.00%	9.11%	9.11%
Gudang Garam	Indonesia	62273	95.53%	9.11%	9.03%
	Rest of the World	2912	4.47%	7.24%	
Perusahaan Gas	Indonesia	3408	100.00%	9.11%	9.11%
Semen Indonesia	Indonesia	25610	94.90%	9.11%	9.01%
	Rest of Asia	1351	5.01%	7.23%	
	Europe	25	0.09%	6.97%	
United Tractor	Indonesia	51012	100.00%	9.11%	9.11%
Media Nusantra	Indonesia	24405	100%	9.11%	9.11%
Indosat	Indonesia	24085	100%	9.11%	9.11%

If annualized riskfree rate during period was 1.5%,
 Jensen's alpha = 0.057% - (1.5%/52)*(1-0.422) = 0.0403%

Based on weekly returns

<HELP> for explanation, <MENU> for similar functions.

EquityBETA



Regression beta is 0.422

Adj Beta = (2/3)
 (0.422) + (1/3) (1) =
 0.614

Intercept in %
 0.057%

R squared (decimals) =
 21.5%

Std error of beta = 0.08
 67% confidence:
 0.34 (=0.42-0.08) to
 0.50 (=0.42+0.08)
 95% confidence:
 0.26 (=0.42-2*0.08) to
 0.58 (=0.42+2*0.08)

Using a 6% ERP for mature markets and a current riskfree rate of 1.87%,
 Expected Return = Riskfree rate + Raw Beta (ERP)
 = 1.87% + 0.422 (6%) = 4.40%

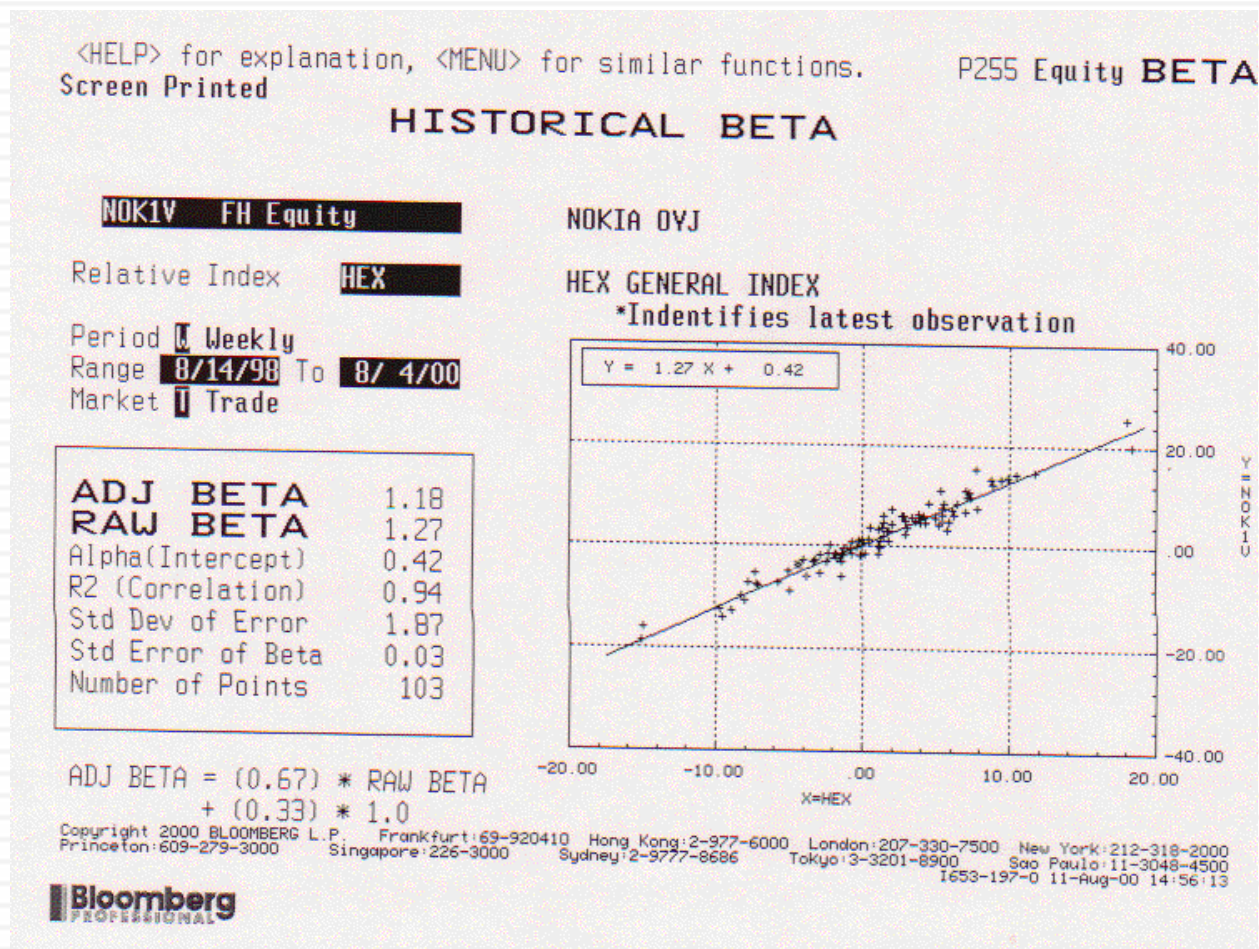
Indonesian Companies: Beta Regression

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<i>Company</i>	<i>Intercept</i>	<i>Beta</i>	<i>R-squared</i>	<i>Rf (1-Beta)</i>	<i>Jensen's alpha (monthly)</i>	<i>Jensen's alpha (annual)</i>	<i>Std Error of Beta</i>	<i>Beta (low)</i>	<i>Beta (high)</i>
Krakatau Steel	-0.22%	0.99	21.10%	0.00%	-0.22%	-10.87%	0.19	0.61	1.37
Bumi Resources	-1.68%	1.19	9.30%	-0.02%	-1.66%	-58.16%	0.37	0.45	1.93
Lippo Karawacki	-0.22%	2.00	46.90%	-0.10%	-0.12%	-6.24%	0.21	1.58	2.42
Gudang Garam	-0.08%	0.95	24.30%	0.00%	-0.08%	-4.32%	0.17	0.61	1.29
Perushann Gas	-0.22%	1.00	35.80%	0.00%	-0.22%	-10.82%	0.13	0.74	1.26
Semen Indonesia	-0.25%	1.30	44.00%	-0.03%	-0.22%	-10.87%	0.15	1	1.6
United Tractors	0.26%	0.81	19.30%	0.02%	0.24%	13.38%	0.17	0.47	1.15
Media Nusantra	-0.41%	1.29	32.30%	-0.03%	-0.38%	-18.05%	0.19	0.91	1.67
Indosat	-0.27%	0.71	15.20%	0.03%	-0.30%	-14.37%	0.17	0.37	1.05

The best R-squared ever?

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What sector is your firm in?

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Bloomberg sector category

DELAY 12:46 Vol 477,249 Op 68.02 T Hi 68.15 D Lo 67.69 D

DESCRIPTION

Page 1/10

CLX US

CLOROX COMPANY

Consumer Products-Misc

BBGID BBG000BFS7D3 CUSIP 189054109

98) Generate Report

The Clorox Company produces and markets non-durable consumer products sold primarily through grocery and other retail stores. The Company's principal products include household cleaning and bleach products, charcoal, cat litter, pet care products, dressings, and trash bags. Clorox markets its products in the United States and other countries around the world.

Read the description and make your own judgment

		USD	DIVIDENDS		Quarterly	USD
		67.69	5)DVD	Indicated	Gross Yld	3.55%
52WK High	7/20/2011	75.44		Dividend Growth	5YR	14.67%
52WK Low	2/ 3/2011	62.77		Ex-Date	Type	Amt
YTD change		1.13		1/24/12	Reg. Cash	.6
YTD % Change		1.70%		7/18/11	Poison Pill	1 per 1
2)FA	Shares Out 9/30/2011	131.905M	EARNINGS			USD
	Market Cap	USD 8928.64M	6)ERN	Ann Date	2/ 3/12 (C)	
	Float	131.04M		Trailing 12mo	EPS	4.080
3)TRA	1 Yr Total Return	10.39%	7)EE	Est EPS	6/2012	4.071
	BETA vs. SPX	.61		P/E	16.59	LT Growth 9.33
4)OMON	Options, LEAPs, Stk Marginable			Est P/E	16.63	Est PEG 1.78

Industry	Number of firms	Beta	D/E Ratio	Tax rate	Unlevered beta	Cash/Firm value	Unlevered beta corrected for cash	HiLo Risk	Standard deviation of equity
Advertising	253	1.27	30.39%	15.74%	1.01	7.61%	1.10	0.4254	56.72%
Aerospace/Defense	208	1.08	22.09%	13.17%	0.90	7.04%	0.97	0.3569	47.90%
Air Transport	158	1.09	96.31%	14.73%	0.60	7.02%	0.64	0.3047	43.55%
Apparel	1174	0.82	24.84%	16.13%	0.68	6.37%	0.73	0.3119	51.79%
Auto & Truck	125	1.28	82.73%	12.98%	0.74	11.21%	0.84	0.3317	45.05%
Auto Parts	632	1.25	25.38%	19.28%	1.04	9.53%	1.15	0.3117	47.79%
Bank (Money Center)	604	1.02	275.73%	19.58%	0.32	17.43%	0.39	0.1933	35.24%
Banks (Regional)	911	0.66	113.70%	21.75%	0.35	29.74%	0.49	0.1900	36.79%
Beverage (Alcoholic)	216	0.79	23.18%	16.66%	0.66	3.57%	0.69	0.2777	43.05%
Beverage (Soft)	108	0.93	23.77%	12.52%	0.77	4.75%	0.81	0.4314	42.96%
Broadcasting	138	1.35	41.58%	19.54%	1.01	4.05%	1.05	0.2955	50.58%
Brokerage & Investment Bank	551	1.05	204.34%	13.39%	0.38	16.43%	0.45	0.3345	56.73%
Building Materials	432	0.96	37.23%	18.20%	0.74	7.98%	0.80	0.2828	47.42%
Business & Consumer Services	759	1.05	27.99%	18.29%	0.85	6.10%	0.91	0.3486	50.70%
Cable TV	64	0.96	49.03%	17.68%	0.69	2.55%	0.71	0.2503	43.88%
Chemical (Basic)	731	0.95	43.37%	16.22%	0.70	7.45%	0.75	0.2911	46.40%
Chemical (Diversified)	85	1.42	40.73%	20.85%	1.08	5.42%	1.14	0.2760	43.73%
Chemical (Specialty)	700	1.03	23.60%	17.14%	0.86	6.13%	0.92	0.3221	49.35%
Coal & Related Energy	321	1.38	53.98%	5.66%	0.91	12.97%	1.05	0.4700	72.21%
Computer Services	934	0.99	19.15%	18.34%	0.85	7.46%	0.92	0.3387	52.97%
Computers/Peripherals	329	1.13	12.55%	14.36%	1.02	9.23%	1.13	0.3238	55.30%
Construction Supplies	751	1.15	47.79%	15.34%	0.82	8.00%	0.89	0.2920	48.14%
Diversified	378	1.08	65.89%	14.59%	0.69	9.22%	0.76	0.2576	38.88%
Drugs (Biotechnology)	782	1.16	8.28%	2.50%	1.07	4.38%	1.12	0.4899	85.38%
Drugs (Pharmaceutical)	877	0.91	12.91%	13.51%	0.82	4.29%	0.85	0.3485	55.39%
Education	170	1.14	27.79%	15.44%	0.92	10.00%	1.02	0.3481	56.66%
Electrical Equipment	838	1.10	26.63%	13.21%	0.89	9.71%	0.99	0.3474	49.99%
Electronics (Consumer & Office)	151	1.22	40.46%	11.33%	0.90	16.10%	1.07	0.3572	52.36%
Electronics (General)	1227	1.08	21.71%	14.27%	0.91	12.90%	1.04	0.3253	52.45%
Engineering/Construction	1148	1.25	80.56%	16.43%	0.75	15.51%	0.89	0.3128	52.45%
Entertainment	350	1.12	27.67%	9.53%	0.90	4.12%	0.94	0.4392	59.72%
Environmental & Waste Services	307	1.27	36.38%	12.00%	0.96	4.12%	1.00	0.4547	62.88%
Farming/Agriculture	408	0.90	60.31%	12.31%	0.59	8.53%	0.64	0.3052	46.18%
Financial Svcs. (Non-bank & Insurance)	966	0.79	854.38%	17.63%	0.10	5.92%	0.10	0.2886	45.27%
Food Processing	1247	0.77	26.27%	17.04%	0.63	4.67%	0.66	0.2745	42.50%
Food Wholesalers	125	0.81	80.21%	17.28%	0.49	9.48%	0.54	0.3014	45.54%
Furn/Home Furnishings	303	1.01	20.06%	17.42%	0.87	12.69%	0.99	0.3042	49.73%
Green & Renewable Energy	167	1.20	72.84%	7.31%	0.72	3.53%	0.74	0.4024	53.45%
Healthcare Products	642	0.97	14.68%	9.03%	0.86	4.91%	0.90	0.4126	58.69%
Healthcare Support Services	335	1.11	29.75%	16.34%	0.89	6.23%	0.95	0.3915	47.70%
Healthcare Information and Technology	285	1.14	19.74%	7.48%	0.96	4.56%	1.01	0.4536	68.43%
Homebuilding	160	1.34	57.54%	19.66%	0.91	9.28%	1.01	0.2818	51.33%
Hospitals/Healthcare Facilities	199	0.83	62.18%	14.53%	0.54	2.50%	0.56	0.2563	41.92%
Hotel/Gaming	665	0.94	40.05%	13.44%	0.70	6.89%	0.75	0.2915	46.98%
Household Products	465	0.98	14.54%	14.42%	0.87	4.34%	0.91	0.3702	50.39%
Information Services	185	1.06	13.26%	16.67%	0.95	4.17%	1.00	0.3533	51.45%
Insurance (General)	233	0.72	41.45%	15.32%	0.53	16.18%	0.63	0.2230	35.05%
Insurance (Life)	124	1.04	48.93%	19.65%	0.74	20.71%	0.94	0.2076	36.75%
Insurance (Prop/Cas.)	220	0.60	31.52%	16.95%	0.47	9.63%	0.52	0.2112	37.33%

Betas by Sector: Global Companies

January 2015

Industry	Number of firms	Beta	D/E Ratio	Tax rate	Unlevered beta	Cash/Firm value	Unlevered beta corrected for cash	HiLo Risk	Standard deviation of equity
Investments & Asset Manager	914	0.89	62.35%	7.34%	0.57	13.17%	0.65	0.3273	47.25%
Machinery	1272	1.12	21.04%	18.36%	0.96	9.32%	1.06	0.3099	48.15%
Metals & Mining	1589	1.43	46.77%	3.84%	0.99	7.33%	1.07	0.5342	79.34%
Office Equipment & Services	155	0.91	43.85%	18.62%	0.67	8.80%	0.74	0.2953	48.07%
Oil/Gas (Integrated)	55	1.40	37.65%	25.44%	1.09	7.17%	1.17	0.2834	40.33%
Oil/Gas (Production and Explo	1140	1.48	47.02%	7.19%	1.03	6.24%	1.10	0.5810	73.94%
Oil/Gas Distribution	215	1.23	52.85%	9.45%	0.83	1.66%	0.85	0.2881	45.55%
Oilfield Svcs/Equip.	586	1.38	50.20%	14.44%	0.97	7.57%	1.05	0.4167	56.14%
Packaging & Container	398	0.79	46.14%	19.10%	0.58	5.07%	0.61	0.2880	44.72%
Paper/Forest Products	303	0.96	75.32%	11.45%	0.58	6.66%	0.62	0.3064	47.03%
Power	574	0.87	96.82%	17.82%	0.48	5.09%	0.51	0.2559	38.21%
Precious Metals	1079	1.48	35.54%	2.76%	1.10	8.77%	1.21	0.5881	95.83%
Publishing & Newspapers	373	1.02	32.84%	15.36%	0.80	7.62%	0.86	0.3019	52.04%
R.E.I.T.	482	0.79	80.16%	2.28%	0.44	2.06%	0.45	0.1670	29.85%
Real Estate (Development)	703	1.16	90.20%	18.31%	0.67	14.74%	0.78	0.2780	48.53%
Real Estate (General/Diversific	449	1.08	78.94%	15.67%	0.65	8.11%	0.70	0.2838	49.50%
Real Estate (Operations & Ser	577	0.92	89.56%	13.25%	0.52	5.65%	0.55	0.2878	43.86%
Recreation	293	1.07	27.60%	16.97%	0.87	8.28%	0.95	0.3367	49.10%
Reinsurance	40	1.21	33.10%	10.37%	0.93	13.06%	1.07	0.1896	28.34%
Restaurant/Dining	306	0.84	32.64%	21.40%	0.67	3.96%	0.70	0.2693	41.15%
Retail (Automotive)	149	0.96	50.93%	22.04%	0.69	4.75%	0.72	0.2882	43.92%
Retail (Building Supply)	50	1.03	25.68%	30.31%	0.87	2.91%	0.90	0.2600	35.64%
Retail (Distributors)	889	0.93	94.01%	19.27%	0.53	9.67%	0.58	0.3147	49.35%
Retail (General)	231	0.93	44.55%	23.10%	0.69	5.37%	0.73	0.2322	40.14%
Retail (Grocery and Food)	180	0.85	68.98%	24.27%	0.56	7.21%	0.60	0.2436	36.41%
Retail (Online)	115	1.42	9.22%	11.89%	1.31	6.75%	1.40	0.4430	72.03%
Retail (Special Lines)	540	1.03	32.61%	22.00%	0.82	5.69%	0.87	0.3053	47.17%
Rubber& Tires	89	1.13	39.64%	22.00%	0.86	7.49%	0.93	0.2663	43.79%
Semiconductor	564	1.27	12.95%	10.38%	1.14	7.73%	1.23	0.3130	53.27%
Semiconductor Equip	259	1.40	15.56%	10.34%	1.23	8.95%	1.35	0.3231	57.71%
Shipbuilding & Marine	354	1.26	78.89%	12.88%	0.74	9.80%	0.83	0.3139	49.49%
Shoe	95	0.86	11.76%	19.78%	0.79	6.12%	0.84	0.3239	49.82%
Software (Entertainment)	119	1.19	10.47%	11.09%	1.09	19.07%	1.35	0.4437	68.74%
Software (Internet)	759	1.34	5.52%	8.54%	1.27	5.95%	1.35	0.5033	68.76%
Software (System & Applicat	991	1.12	8.86%	11.22%	1.04	5.26%	1.10	0.4217	62.34%
Steel	757	1.28	89.90%	13.50%	0.72	9.42%	0.79	0.3345	54.23%
Telecom (Wireless)	117	1.17	48.78%	13.18%	0.82	6.41%	0.88	0.3184	47.57%
Telecom. Equipment	484	1.18	13.28%	11.08%	1.05	8.52%	1.15	0.3634	57.38%
Telecom. Services	308	1.01	62.95%	14.45%	0.66	4.94%	0.69	0.3594	50.50%
Tobacco	61	0.77	16.87%	18.39%	0.67	2.24%	0.69	0.3515	39.03%
Transportation	225	0.88	46.82%	21.11%	0.64	7.60%	0.70	0.2950	42.81%
Transportation (Railroads)	53	1.00	35.57%	25.45%	0.79	2.15%	0.81	0.2095	32.27%
Trucking	190	0.96	62.80%	22.49%	0.64	5.59%	0.68	0.2575	42.00%
Unclassified	33	0.86	56.84%	8.19%	0.56	7.48%	0.61	0.4764	58.05%
Utility (General)	56	0.80	84.23%	24.40%	0.49	4.78%	0.51	0.1766	32.08%
Utility (Water)	98	0.98	49.01%	15.37%	0.69	5.47%	0.73	0.3017	42.62%
Total Market	42410	1.07	79.33%	14.07%	0.64	9.61%	0.71	0.3445	51.47%

Indonesian Companies: Bottom up Betas

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Marginal tax rate =		25%				
<i>Company</i>	<i>Business</i>	<i>Unlevered Beta</i>	<i>Total Debt</i>	<i>Market Cap</i>	<i>D/E Ratio</i>	<i>Levered Beta</i>
Krakatau Steel	Steel	0.7189	IDR 1,529	IDR 408	374.75%	2.74
Bumi Resources	Coal & Related Energy	0.9147	IDR 4,228	IDR 216	1957.41%	14.34
Lippo Karawacki	Real Estate (General/ Diversified)	0.6464	IDR 10,787	IDR 30,001	35.96%	0.82
Gudang Garam	Tobacco	0.6725	IDR 15,170	IDR 90,624	16.74%	0.76
Perushann Gas	Oil/Gas Distribution	0.8332	IDR 2,145	IDR 7,881	27.22%	1.00
Semen Indonesia	Construction Supplies	0.8219	IDR 3,970	IDR 79,779	4.98%	0.85
United Tractors	Machinery	0.9581	IDR 2,620	IDR 75,271	3.48%	0.98
Media Nusantara	Entertainment	0.8967	IDR 3,376	IDR 29,409	11.48%	0.97
Indosat	Telecom. Services	0.6581	IDR 27,279	IDR 20,323	134.23%	1.32

Interest coverage ratios

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Corporate Finance Essentials (

	Estimate 2012 A	Current/ETM	Original 2011 A	Original 2010 A	Revised 2009
For the period ending	2012-12-31	2012-3-31	2011-12-31	2010-12-31	2009-1
Revenue	216,328.25	230,522.00	230,859.00	175,752.00	136.01
EBITDA	25,366.80	25,443.00	26,270.00	22,655.00	17.60
Operating Income	17,315.89	17,741.00	18,336.00	13,595.00	8.31
Total interest expense		1,441.00	1,460.00	1,658.00	1.77
Net Income	8,586.67	12,345.00	12,436.00	11,358.00	4.41
Cash & Equivalents		4,215.00	6,361.00	10,427.00	54
Total debt		28,360.00	22,623.00	23,592.00	28.65

$$\begin{aligned} \text{Interest coverage ratio} &= \text{Operating profit} / \text{Interest expense} \\ &= 17,741 / 1,441 = 12.10 \end{aligned}$$

Synthetic Ratings and Default Spreads

Market cap > \$ 5 billion

<i>If interest coverage ratio is</i>			
<i>></i>	<i>≤ to</i>	<i>Rating is</i>	<i>Spread is</i>
8.50	100000	AAA	0.40%
6.5	8.499999	AA	0.70%
5.5	6.499999	A+	0.90%
4.25	5.499999	A	1.00%
3	4.249999	A-	1.20%
2.5	2.999999	BBB	1.75%
2.25	2.49999	BB+	2.75%
2	2.2499999	BB	3.25%
1.75	1.999999	B+	4.00%
1.5	1.749999	B	5.00%
1.25	1.499999	B-	6.00%
0.8	1.249999	CCC	7.00%
0.65	0.799999	CC	8.00%
0.2	0.649999	C	10.00%
-100000	0.199999	D	12.00%

Market cap < \$ 5 billion

For smaller and riskier firms

<i>If interest coverage ratio is</i>			
<i>greater than</i>	<i>≤ to</i>	<i>Rating is</i>	<i>Spread is</i>
12.5	100000	AAA	0.40%
9.5	12.499999	AA	0.70%
7.5	9.499999	A+	0.90%
6	7.499999	A	1.00%
4.5	5.999999	A-	1.20%
4	4.499999	BBB	1.75%
3.5	3.9999999	BB+	2.75%
3	3.499999	BB	3.25%
2.5	2.999999	B+	4.00%
2	2.499999	B	5.00%
1.5	1.999999	B-	6.00%
1.25	1.499999	CCC	7.00%
0.8	1.249999	CC	8.00%
0.5	0.799999	C	10.00%
-100000	0.499999	D	12.00%

Indonesian Companies: Cost of Debt

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Indonesian Rupiah Risk free rate	6.11%
Default Spread for Indonesia =	2.20%
Marginal tax rate =	25.00%

<i>Company</i>	<i>EBIT</i>	<i>Interest Expense</i>	<i>Interest coverage ratio</i>	<i>Bond Rating</i>	<i>Pre-tax cost of debt</i>	<i>After-tax cost of debt</i>
Krakatau Steel	-IDR 115.00	IDR 67.00	-1.72	D	20.31%	15.23%
Bumi Resources	IDR 87.00	IDR 723.00	0.12	D	20.31%	15.23%
Lippo Karawacki	IDR 3,295.00	IDR 1,356.00	2.43	B	13.31%	9.98%
Gudang Garam	IDR 8,506.00	IDR 1,488.00	5.72	A-	9.51%	7.13%
Perushann Gas	IDR 721.00	IDR 90.00	8.01	A+	9.21%	6.91%
Semen Indonesia	IDR 6,878.00	IDR 843.00	8.16	A+	9.21%	6.91%
United Tractors	IDR 8,595.00	IDR 92.00	93.42	AAA	8.71%	6.53%
Media Nusantara	IDR 2,611.00	IDR 82.00	31.84	AAA	8.71%	6.53%
Indosat	IDR 348.00	IDR 2,398.00	0.15	D	20.31%	15.23%

Market value of equity = 66,452.45 M

BV of debt = Total Debt = \$28,360 M

Corporate Finance Essentials (

	Estimate 2012 A	Current/LTM	Original 2011 A	Original 2010 A	Restated 2009 A	Original
For the period ending	2012-12-31	2012-3-31	2011-12-31	2010-12-31	2009-12-31	2008-12-31
Revenue	216,328.25	230,522.00	230,859.00	175,752.00	136,016.00	200,000.00
EBITDA	25,366.80	25,443.00	26,270.00	22,655.00	17,606.00	17,606.00
Operating Income	17,315.89	17,741.00	18,336.00	13,595.00	8,311.00	8,311.00
Total interest expense		1,441.00	1,460.00	1,658.00	1,776.00	1,776.00
Net Income	8,586.67	12,345.00	12,436.00	11,358.00	4,414.00	4,414.00
Cash & Equivalents		4,215.00	6,361.00	10,427.00	542.00	542.00
Total debt		28,360.00	22,623.00	23,592.00	28,653.00	28,653.00
Total Debt Weighted Average Maturity						
Total Equity		67,043.00	65,734.00	69,109.00	62,613.00	62,613.00
Chg in non-cash wc		1,748.00	-351.00	1,867.00	-538.00	-538.00
Capital Expenditures	-13,840.40	-14,642.00	-13,266.00	-9,761.00	-10,661.00	-10,661.00
Increase: LT Debt		5,794.00	0.00	118.00	9,087.00	9,087.00
Decrease: LT Debt						
Inc(Dec) ST Debt		0.00	0.00	0.00	0.00	0.00
Market cap.		66,452.45	96,752.33	100,054.19	75,772.27	75,772.27
Minority Interest		509.00	510.00	547.00	590.00	590.00
Eff tax rate		46.03	45.65	42.19	53.12	53.12
Net Cash Paid for Acquisitions				0.00	0.00	0.00
Working Capital		636.00	2,150.00	7,241.00	-2,528.00	-2,528.00
Op Lease - Current			869.00	891.00	990.00	990.00
Op Lease - Yr 1			767.00	752.00	872.00	872.00
Op Lease - Yr 2			519.00	573.00	637.00	637.00
Op Lease - Yr 3			382.00	460.00	529.00	529.00
Op Lease - Yr 4			300.00	309.00	346.00	346.00
Op Lease - Yr 5			202.00	245.00	272.00	272.00
Op Lease - Beyond yr 5			591.00	557.00	721.00	721.00
Dividends Paid		-3,531.00	-3,632.00	-3,175.00	-2,832.00	-2,832.00
Dec capital stock		-11,399.00	-11,123.00	-3,866.00	0.00	0.00
Current Shares Outstanding		1,264.56	1,327.74	1,469.22	1,483.69	1,483.69
Price per share		52.04	51.91	38.93	39.49	39.49
Options Outstanding			24.37	32.61	36.43	36.43
End Of Period						
Avg Exercise Price (Options Outstanding)			45.73	39.54	37.13	37.13
Op Lease - Years 2 - 5			1,403.00	1,587.00	1,784.00	1,784.00
R & D expenditures			267.00	230.00	190.00	190.00

With a pre-tax cost of debt of 3%
 MV of debt =
 1,441 (PV of annuity, 3 years, 3%)
 + 28,360 / (1.03)³ = \$ 30,029 M

PV of operating leases at 3%
 $767/1.03 + 519/1.03^2 + 382/1.03^3$
 $+ 300/1.03^4 + 202/1.03^5 + 259.5/1.03^6$
 $+ 259.5/1.03^7 = 2,187$

Indonesian Companies: Cost of Capital

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<i>Company</i>	<i>Levered Beta</i>	<i>ERP</i>	<i>Cost of Equity</i>	<i>After-tax cost of debt</i>	<i>Debt/Capital</i>	<i>Cost of Capital (Rupiah)</i>
Krakatau Steel	2.74	9.11%	31.07%	15.23%	78.94%	18.57%
Bumi Resources	14.34	7.94%	119.95%	15.23%	95.14%	20.32%
Lippo Karawacki	0.82	9.11%	13.59%	9.98%	26.45%	12.63%
Gudang Garam	0.76	9.03%	12.94%	7.13%	14.34%	12.11%
Perushann Gas	1.00	9.11%	15.25%	6.91%	21.39%	13.47%
Semen Indonesia	0.85	9.01%	13.80%	6.91%	4.74%	13.47%
United Tractors	0.98	9.11%	15.07%	6.53%	3.36%	14.78%
Media Nusantra	0.97	9.11%	14.98%	6.53%	10.30%	14.11%
Indosat	1.32	9.11%	18.14%	15.23%	57.31%	16.47%

Cost of Capital in US\$ by Sector: Global Companies

January 2015

Industry Name	Number of Firms	Beta	Cost of Equity	E/(D+E)	Std Dev in Stock	Cost of Debt	Tax Rate	After-tax Cost of Debt	D/(D+E)	Cost of Capital
Advertising	253	1.27	11.31%	76.69%	56.72%	4.63%	15.74%	3.24%	23.31%	9.43%
Aerospace/Defense	208	1.08	9.91%	81.90%	47.90%	4.13%	13.17%	2.89%	18.10%	8.64%
Air Transport	158	1.09	9.98%	50.94%	43.55%	4.13%	14.73%	2.89%	49.06%	6.50%
Apparel	1174	0.82	8.06%	80.11%	51.79%	4.63%	16.13%	3.24%	19.89%	7.10%
Auto & Truck	125	1.28	11.37%	54.73%	45.05%	4.13%	12.98%	2.89%	45.27%	7.53%
Auto Parts	632	1.25	11.14%	79.76%	47.79%	4.13%	19.28%	2.89%	20.24%	9.47%
Bank (Money Center)	604	1.02	9.52%	26.61%	35.24%	4.13%	19.58%	2.89%	73.39%	4.66%
Banks (Regional)	911	0.66	6.88%	46.79%	36.79%	4.13%	21.75%	2.89%	53.21%	4.76%
Beverage (Alcoholic)	216	0.79	7.85%	81.18%	43.05%	4.13%	16.66%	2.89%	18.82%	6.91%
Beverage (Soft)	108	0.93	8.86%	80.80%	42.96%	4.13%	12.52%	2.89%	19.20%	7.71%
Broadcasting	138	1.35	11.85%	70.63%	50.58%	4.63%	19.54%	3.24%	29.37%	9.32%
Brokerage & Investment Banking	551	1.05	9.70%	32.86%	56.73%	4.63%	13.39%	3.24%	67.14%	5.36%
Building Materials	432	0.96	9.06%	72.87%	47.42%	4.13%	18.20%	2.89%	27.13%	7.39%
Business & Consumer Services	759	1.05	9.69%	78.13%	50.70%	4.63%	18.29%	3.24%	21.87%	8.28%
Cable TV	64	0.96	9.10%	67.10%	43.88%	4.13%	17.68%	2.89%	32.90%	7.05%
Chemical (Basic)	731	0.95	8.99%	69.75%	46.40%	4.13%	16.22%	2.89%	30.25%	7.14%
Chemical (Diversified)	85	1.42	12.38%	71.06%	43.73%	4.13%	20.85%	2.89%	28.94%	9.64%
Chemical (Specialty)	700	1.03	9.55%	80.91%	49.35%	4.13%	17.14%	2.89%	19.09%	8.28%
Coal & Related Energy	321	1.38	12.08%	64.94%	72.21%	5.13%	5.66%	3.59%	35.06%	9.11%
Computer Services	934	0.99	9.26%	83.93%	52.97%	4.63%	18.34%	3.24%	16.07%	8.29%
Computers/Peripherals	329	1.13	10.29%	88.85%	55.30%	4.63%	14.36%	3.24%	11.15%	9.51%
Construction Supplies	751	1.15	10.46%	67.66%	48.14%	4.13%	15.34%	2.89%	32.34%	8.01%
Diversified	378	1.08	9.93%	60.28%	38.88%	4.13%	14.59%	2.89%	39.72%	7.13%
Drugs (Biotechnology)	782	1.16	10.48%	92.36%	85.38%	5.63%	2.50%	3.94%	7.64%	9.98%
Drugs (Pharmaceutical)	877	0.91	8.68%	88.57%	55.39%	4.63%	13.51%	3.24%	11.43%	8.06%
Education	170	1.14	10.33%	78.25%	56.66%	4.63%	15.44%	3.24%	21.75%	8.79%
Electrical Equipment	838	1.10	10.06%	78.97%	49.99%	4.13%	13.21%	2.89%	21.03%	8.55%
Electronics (Consumer & Office)	151	1.22	10.91%	71.19%	52.36%	4.63%	11.33%	3.24%	28.81%	8.70%
Electronics (General)	1227	1.08	9.90%	82.16%	52.45%	4.63%	14.27%	3.24%	17.84%	8.72%
Engineering/Construction	1148	1.25	11.16%	55.38%	52.45%	4.63%	16.43%	3.24%	44.62%	7.63%
Entertainment	350	1.12	10.22%	78.33%	59.72%	4.63%	9.53%	3.24%	21.67%	8.71%
Environmental & Waste Services	307	1.27	11.27%	73.32%	62.88%	4.63%	12.00%	3.24%	26.68%	9.12%
Farming/Agriculture	408	0.90	8.64%	62.38%	46.18%	4.13%	12.31%	2.89%	37.62%	6.48%
Financial Svcs. (Non-bank & Insurance)	966	0.79	7.82%	10.48%	45.27%	4.13%	17.63%	2.89%	89.52%	3.41%
Food Processing	1247	0.77	7.71%	79.19%	42.50%	4.13%	17.04%	2.89%	20.81%	6.71%
Food Wholesalers	125	0.81	7.97%	55.49%	45.54%	4.13%	17.28%	2.89%	44.51%	5.71%
Furn/Home Furnishings	303	1.01	9.42%	83.29%	49.73%	4.13%	17.42%	2.89%	16.71%	8.33%
Green & Renewable Energy	167	1.20	10.79%	57.86%	53.45%	4.63%	7.31%	3.24%	42.14%	7.61%
Healthcare Products	642	0.97	9.16%	87.20%	58.69%	4.63%	9.03%	3.24%	12.80%	8.40%
Healthcare Support Services	335	1.11	10.15%	77.07%	47.70%	4.13%	16.34%	2.89%	22.93%	8.49%

Cost of Capital in US\$ by Sector: Global Companies

January 2015

Industry Name	Number of Firms	Beta	Cost of Equity	E/(D+E)	Std Dev in Stock	Cost of Debt	Tax Rate	After-tax Cost of Debt	D/(D+E)	Cost of Capital
Healthcare Information and Technology	285	1.14	10.33%	83.51%	68.43%	5.13%	7.48%	3.59%	16.49%	9.22%
Homebuilding	160	1.34	11.77%	63.47%	51.33%	4.63%	19.66%	3.24%	36.53%	8.65%
Hospitals/Healthcare Facilities	199	0.83	8.15%	61.66%	41.92%	4.13%	14.53%	2.89%	38.34%	6.13%
Hotel/Gaming	665	0.94	8.90%	71.40%	46.98%	4.13%	13.44%	2.89%	28.60%	7.18%
Household Products	465	0.98	9.19%	87.30%	50.39%	4.63%	14.42%	3.24%	12.70%	8.44%
Information Services	185	1.06	9.78%	88.29%	51.45%	4.63%	16.67%	3.24%	11.71%	9.02%
Insurance (General)	233	0.72	7.31%	70.70%	35.05%	4.13%	15.32%	2.89%	29.30%	6.01%
Insurance (Life)	124	1.04	9.61%	67.15%	36.75%	4.13%	19.65%	2.89%	32.85%	7.40%
Insurance (Prop/Cas.)	220	0.60	6.45%	76.03%	37.33%	4.13%	16.95%	2.89%	23.97%	5.60%
Investments & Asset Management	914	0.89	8.57%	61.59%	47.25%	4.13%	7.34%	2.89%	38.41%	6.39%
Machinery	1272	1.12	10.23%	82.62%	48.15%	4.13%	18.36%	2.89%	17.38%	8.95%
Metals & Mining	1589	1.43	12.45%	68.13%	79.34%	5.13%	3.84%	3.59%	31.87%	9.63%
Office Equipment & Services	155	0.91	8.73%	69.52%	48.07%	4.13%	18.62%	2.89%	30.48%	6.95%
Oil/Gas (Integrated)	55	1.40	12.19%	72.65%	40.33%	4.13%	25.44%	2.89%	27.35%	9.65%
Oil/Gas (Production and Exploration)	1140	1.48	12.82%	68.02%	73.94%	5.13%	7.19%	3.59%	31.98%	9.87%
Oil/Gas Distribution	215	1.23	11.02%	65.42%	45.55%	4.13%	9.45%	2.89%	34.58%	8.21%
Oilfield Svcs/Equip.	586	1.38	12.11%	66.58%	56.14%	4.63%	14.44%	3.24%	33.42%	9.15%
Packaging & Container	398	0.79	7.84%	68.43%	44.72%	4.13%	19.10%	2.89%	31.57%	6.28%
Paper/Forest Products	303	0.96	9.06%	57.04%	47.03%	4.13%	11.45%	2.89%	42.96%	6.41%
Power	574	0.87	8.42%	50.81%	38.21%	4.13%	17.82%	2.89%	49.19%	5.70%
Precious Metals	1079	1.48	12.80%	73.78%	95.83%	6.13%	2.76%	4.29%	26.22%	10.57%
Publishing & Newspapers	373	1.02	9.50%	75.28%	52.04%	4.63%	15.36%	3.24%	24.72%	7.95%
R.E.I.T.	482	0.79	7.81%	55.51%	29.85%	4.13%	2.28%	2.89%	44.49%	5.62%
Real Estate (Development)	703	1.16	10.52%	52.58%	48.53%	4.13%	18.31%	2.89%	47.42%	6.90%
Real Estate (General/Diversified)	449	1.08	9.90%	55.89%	49.50%	4.13%	15.67%	2.89%	44.11%	6.81%
Real Estate (Operations & Services)	577	0.92	8.77%	52.75%	43.86%	4.13%	13.25%	2.89%	47.25%	5.99%
Recreation	293	1.07	9.82%	78.37%	49.10%	4.13%	16.97%	2.89%	21.63%	8.32%
Reinsurance	40	1.21	10.83%	75.13%	28.34%	4.13%	10.37%	2.89%	24.87%	8.85%
Restaurant/Dining	306	0.84	8.21%	75.39%	41.15%	4.13%	21.40%	2.89%	24.61%	6.90%
Retail (Automotive)	149	0.96	9.05%	66.26%	43.92%	4.13%	22.04%	2.89%	33.74%	6.97%
Retail (Building Supply)	50	1.03	9.54%	79.57%	35.64%	4.13%	30.31%	2.89%	20.43%	8.18%
Retail (Distributors)	889	0.93	8.84%	51.54%	49.35%	4.13%	19.27%	2.89%	48.46%	5.96%
Retail (General)	231	0.93	8.84%	69.18%	40.14%	4.13%	23.10%	2.89%	30.82%	7.00%
Retail (Grocery and Food)	180	0.85	8.24%	59.18%	36.41%	4.13%	24.27%	2.89%	40.82%	6.06%
Retail (Online)	115	1.42	12.34%	91.56%	72.03%	5.13%	11.89%	3.59%	8.44%	11.60%
Retail (Special Lines)	540	1.03	9.57%	75.41%	47.17%	4.13%	22.00%	2.89%	24.59%	7.93%
Rubber& Tires	89	1.13	10.29%	71.61%	43.79%	4.13%	22.00%	2.89%	28.39%	8.19%
Semiconductor	564	1.27	11.30%	88.53%	53.27%	4.63%	10.38%	3.24%	11.47%	10.38%
Semiconductor Equip	259	1.40	12.25%	86.53%	57.71%	4.63%	10.34%	3.24%	13.47%	11.04%
Shipbuilding & Marine	354	1.26	11.19%	55.90%	49.49%	4.13%	12.88%	2.89%	44.10%	7.53%

Cost of Capital in US\$ by Sector: Global Companies

January 2015

<i>Industry Name</i>	<i>Number of Firms</i>	<i>Beta</i>	<i>Cost of Equity</i>	<i>E/(D+E)</i>	<i>Std Dev in Stock</i>	<i>Cost of Debt</i>	<i>Tax Rate</i>	<i>After-tax Cost of Debt</i>	<i>D/(D+E)</i>	<i>Cost of Capital</i>
Shoe	95	0.86	8.35%	89.48%	49.82%	4.13%	19.78%	2.89%	10.52%	7.78%
Software (Entertainment)	119	1.19	10.72%	90.52%	68.74%	5.13%	11.09%	3.59%	9.48%	10.04%
Software (Internet)	759	1.34	11.77%	94.77%	68.76%	5.13%	8.54%	3.59%	5.23%	11.34%
Software (System & Application)	991	1.12	10.24%	91.86%	62.34%	4.63%	11.22%	3.24%	8.14%	9.67%
Steel	757	1.28	11.34%	52.66%	54.23%	4.63%	13.50%	3.24%	47.34%	7.51%
Telecom (Wireless)	117	1.17	10.55%	67.21%	47.57%	4.13%	13.18%	2.89%	32.79%	8.04%
Telecom. Equipment	484	1.18	10.61%	88.28%	57.38%	4.63%	11.08%	3.24%	11.72%	9.75%
Telecom. Services	308	1.01	9.44%	61.37%	50.50%	4.63%	14.45%	3.24%	38.63%	7.05%
Tobacco	61	0.77	7.66%	85.57%	39.03%	4.13%	18.39%	2.89%	14.43%	6.97%
Transportation	225	0.88	8.49%	68.11%	42.81%	4.13%	21.11%	2.89%	31.89%	6.70%
Transportation (Railroads)	53	1.00	9.36%	73.76%	32.27%	4.13%	25.45%	2.89%	26.24%	7.66%
Trucking	190	0.96	9.04%	61.43%	42.00%	4.13%	22.49%	2.89%	38.57%	6.67%
Unclassified	33	0.86	8.34%	63.76%	58.05%	4.63%	8.19%	3.24%	36.24%	6.49%
Utility (General)	56	0.80	7.90%	54.28%	32.08%	4.13%	24.40%	2.89%	45.72%	5.61%
Utility (Water)	98	0.98	9.17%	67.11%	42.62%	4.13%	15.37%	2.89%	32.89%	7.11%
Total Market	42410	1.07	9.87%	55.76%	51.47%	4.63%	14.07%	3.24%	44.24%	6.94%

Corporate Finance Essentials (

	Estimate 2012 A	Current T.M.	Original 2011 A	Original 2010 A	Restated 2009 A	Original
For the period ending	2012-12-31	2012-3-31	2011-12-31	2010-12-31	2009-12-31	2008-12-31
Revenue	216,328.25	230,522.00	230,959.00	175,752.00	135,016.00	21,000.00
EBITDA	25,366.80	25,443.00	26,270.00	22,655.00	17,606.00	1,000.00
Operating Income	17,315.89	17,741.00	18,336.00	13,595.00	8,311.00	1,000.00
Total interest expense		1,441.00	1,460.00	1,658.00	1,776.00	1,000.00
Net Income	8,586.67	12,345.00	12,436.00	11,358.00	4,414.00	1,000.00
Cash & Equivalents		4,215.00	6,361.00	10,427.00	542.00	1,000.00
Total debt		28,360.00	22,623.00	23,592.00	28,653.00	1,000.00
Total Debt Weighted Average Maturity						1,000.00
Total Equity		67,043.00	65,734.00	69,109.00	62,613.00	1,000.00
Chg in non-cash wc		1,748.00	-351.00	1,867.00	-538.00	1,000.00
Capital Expenditures	-13,840.40	-14,642.00	-13,266.00	-9,761.00	-10,661.00	1,000.00
Increase: LT Debt		5,794.00	0.00	118.00	9,087.00	1,000.00
Decrease: LT Debt						1,000.00
Inc(Dec) ST Debt		0.00	0.00	0.00	0.00	1,000.00
Market cap.		66,452.45	96,752.33	100,054.19	75,772.27	1,000.00
Minority Interest		509.00	510.00	547.00	590.00	1,000.00
Eff tax rate		46.03	45.65	42.19	53.12	1,000.00
Net Cash Paid for Acquisitions				0.00	0.00	1,000.00
Working Capital		636.00	2,150.00	7,241.00	-2,528.00	1,000.00
Op Lease - Current			869.00	891.00	990.00	1,000.00
Op Lease - Yr 1			767.00	752.00	872.00	1,000.00
Op Lease - Yr 2			519.00	573.00	637.00	1,000.00
Op Lease - Yr 3			382.00	460.00	529.00	1,000.00
Op Lease - Yr 4			300.00	309.00	346.00	1,000.00
Op Lease - Yr 5			202.00	245.00	272.00	1,000.00
Op Lease - Beyond yr 5			591.00	557.00	721.00	1,000.00
Dividends Paid		-3,531.00	-3,632.00	-3,175.00	-2,832.00	1,000.00
Dec capital stock		-11,399.00	-11,123.00	-3,866.00	0.00	1,000.00
Current Shares		1,264.56	1,327.74	1,469.22	1,483.69	1,000.00
Outstanding						1,000.00
Price per share		52.04	51.91	38.93	39.49	1,000.00
Options Outstanding			24.37	32.61	36.43	1,000.00
End Of Period						1,000.00
Avg Exercise Price (Options Outstanding)			45.73	39.54	37.13	1,000.00
Op Lease - Years 2 - 5			1,403.00	1,587.00	1,784.00	1,000.00
R & D expenditures			267.00	230.00		1,000.00

Pre-tax Return on capital
 = Operating Income/
 (BV of Debt last year + BV of Equity last year – Cash last year)
 = 17741/(22,623+ 55,734-6,361) = 24.64%

After-tax Return on capital =
 Pre-tax Return on capital (1- tax rate)
 = 24.64% (1-.4603) = .1330 or 13.30%
 Tax rate used: Effective tax rate (from this page)

Indonesian companies: ROIC & Return Spreads

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<i>Company</i>	<i>EBIT</i>	<i>Effective Tax Rate</i>	<i>Total Debt</i>	<i>Book Equity</i>	<i>Cash</i>	<i>Invested Capital</i>	<i>ROIC</i>	<i>Cost of Capital</i>
Krakatau Steel	-IDR 115	0.00%	IDR 1,006	IDR 835	IDR 193	IDR 1,648	-6.98%	18.57%
Bumi Resources	IDR 87	25.00%	IDR 4,252	-IDR 321	IDR 21	IDR 3,910	1.67%	20.32%
Lippo Karawacki	IDR 3,295	6.34%	IDR 9,997	IDR 17,646	IDR 11,640	IDR 16,003	19.28%	12.63%
Gudang Garam	IDR 8,506	25.01%	IDR 18,147	IDR 33,229	IDR 1,588	IDR 49,788	12.81%	12.11%
Perushann Gas	IDR 721	27.11%	IDR 1,892	IDR 2,963	IDR 1,309	IDR 3,546	14.82%	13.47%
Semen Indonesia	IDR 6,878	20.45%	IDR 4,083	IDR 21,804	IDR 4,175	IDR 21,712	25.20%	13.47%
United Tractors	IDR 8,595	26.10%	IDR 2,597	IDR 36,576	IDR 10,610	IDR 28,563	22.24%	14.78%
Media Nusantara	IDR 2,611	30.56%	IDR 3,182	IDR 9,393	IDR 1,132	IDR 11,443	15.84%	14.11%
Indosat	IDR 348	0.00%	IDR 27,872	IDR 14,210	IDR 3,480	IDR 38,602	0.90%	16.47%

Excess Returns by Sector: Global

January 2015

Industry Name	Number of Firms	Beta	ROE	Cost of Equity	(ROE - COE)	BV of Equity	Equity EVA	ROC	Cost of Capital	(ROC - WACC)	BV of Capital	EVA
Advertising	253	1.27	10.21%	11.31%	-1.10%	\$ 58,025.47	\$ (635.68)	28.21%	9.43%	18.79%	\$ 35,552.32	\$ 6,678.69
Aerospace/Defense	208	1.08	21.05%	9.91%	11.13%	\$ 222,012.29	\$ 24,712.89	24.34%	8.64%	15.70%	\$ 256,141.19	\$ 40,206.18
Air Transport	158	1.09	11.09%	9.98%	1.10%	\$ 169,565.87	\$ 1,871.83	5.17%	6.50%	-1.33%	\$ 507,183.60	\$ (6,758.79)
Apparel	1174	0.82	12.07%	8.06%	4.01%	\$ 255,986.95	\$ 10,260.03	14.95%	7.10%	7.85%	\$ 333,478.61	\$ 26,169.77
Auto & Truck	125	1.28	14.68%	11.37%	3.31%	\$ 674,138.83	\$ 22,318.91	6.47%	7.53%	-1.06%	\$ 1,529,605.74	\$ (16,164.77)
Auto Parts	632	1.25	13.32%	11.14%	2.17%	\$ 276,715.83	\$ 6,017.63	11.15%	9.47%	1.67%	\$ 397,894.56	\$ 6,663.52
Bank (Money Center)	604	1.02	10.26%	9.52%	0.73%	\$ 5,029,075.28	\$ 36,940.87	0.00%	4.66%	-4.66%	\$ 18,333,051.49	\$ (853,982.93)
Banks (Regional)	911	0.66	8.55%	6.88%	1.67%	\$ 654,840.28	\$ 10,931.87	-0.03%	4.76%	-4.79%	\$ 915,414.32	\$ (43,867.71)
Beverage (Alcoholic)	216	0.79	14.10%	7.85%	6.25%	\$ 273,302.89	\$ 17,090.20	13.38%	6.91%	6.47%	\$ 373,353.92	\$ 24,154.47
Beverage (Soft)	108	0.93	20.79%	8.86%	11.93%	\$ 90,735.98	\$ 10,825.10	21.84%	7.71%	14.13%	\$ 119,026.78	\$ 16,813.04
Broadcasting	138	1.35	8.64%	11.85%	-3.21%	\$ 82,889.07	\$ (2,663.47)	15.61%	9.32%	6.29%	\$ 100,169.52	\$ 6,297.58
Brokerage & Investment Banking	551	1.05	9.01%	9.70%	-0.68%	\$ 362,836.22	\$ (2,473.75)	0.04%	5.36%	-5.32%	\$ 1,548,764.40	\$ (82,362.46)
Building Materials	432	0.96	8.50%	9.06%	-0.56%	\$ 134,032.70	\$ (749.01)	9.85%	7.39%	2.46%	\$ 175,217.53	\$ 4,306.71
Business & Consumer Services	759	1.05	15.21%	9.69%	5.52%	\$ 140,568.42	\$ 7,760.41	21.64%	8.28%	13.36%	\$ 146,934.15	\$ 19,632.32
Cable TV	64	0.96	23.75%	9.10%	14.65%	\$ 85,762.19	\$ 12,565.04	15.72%	7.05%	8.67%	\$ 233,249.05	\$ 20,215.38
Chemical (Basic)	731	0.95	8.91%	8.99%	-0.07%	\$ 314,445.71	\$ (229.82)	10.93%	7.14%	3.79%	\$ 483,885.76	\$ 18,344.86
Chemical (Diversified)	85	1.42	12.43%	12.38%	0.05%	\$ 142,014.32	\$ 66.14	9.22%	9.64%	-0.42%	\$ 250,472.37	\$ (1,047.34)
Chemical (Specialty)	700	1.03	12.32%	9.55%	2.76%	\$ 317,700.80	\$ 8,773.07	11.95%	8.28%	3.67%	\$ 425,151.04	\$ 15,608.73
Coal & Related Energy	321	1.38	4.50%	12.08%	-7.58%	\$ 170,737.64	\$ (12,946.78)	7.36%	9.11%	-1.75%	\$ 249,932.68	\$ (4,361.38)
Computer Services	934	0.99	19.68%	9.26%	10.43%	\$ 199,557.66	\$ 20,810.89	23.36%	8.29%	15.07%	\$ 219,855.60	\$ 33,136.58
Computers/Peripherals	329	1.13	18.26%	10.29%	7.96%	\$ 485,087.44	\$ 38,629.09	17.59%	9.51%	8.08%	\$ 580,725.40	\$ 46,924.73
Construction Supplies	751	1.15	8.90%	10.46%	-1.56%	\$ 457,063.60	\$ (7,147.85)	7.93%	8.01%	-0.08%	\$ 752,005.29	\$ (608.53)
Diversified	378	1.08	10.75%	9.93%	0.82%	\$ 973,690.52	\$ 7,995.80	7.85%	7.13%	0.72%	\$ 1,683,075.42	\$ 12,095.07
Drugs (Biotechnology)	782	1.16	10.58%	10.48%	0.10%	\$ 93,342.14	\$ 89.03	12.46%	9.98%	2.48%	\$ 181,551.91	\$ 4,501.31
Drugs (Pharmaceutical)	877	0.91	15.00%	8.68%	6.32%	\$ 754,355.73	\$ 47,652.84	13.90%	8.06%	5.84%	\$ 1,093,419.45	\$ 63,885.78
Education	170	1.14	6.10%	10.33%	-4.23%	\$ 23,716.67	\$ (1,002.40)	11.93%	8.79%	3.15%	\$ 25,671.46	\$ 807.70
Electrical Equipment	838	1.10	7.76%	10.06%	-2.30%	\$ 260,938.70	\$ (6,003.61)	11.81%	8.55%	3.26%	\$ 309,659.50	\$ 10,104.27
Electronics (Consumer & Office)	151	1.22	2.35%	10.91%	-8.56%	\$ 88,685.15	\$ (7,590.08)	4.86%	8.70%	-3.84%	\$ 175,930.88	\$ (6,759.58)
Electronics (General)	1227	1.08	9.11%	9.90%	-0.79%	\$ 370,021.80	\$ (2,934.57)	8.61%	8.72%	-0.10%	\$ 466,439.28	\$ (468.79)
Engineering/Construction	1148	1.25	7.62%	11.16%	-3.54%	\$ 414,311.76	\$ (14,658.16)	8.60%	7.63%	0.98%	\$ 721,278.51	\$ 7,036.46
Entertainment	350	1.12	15.25%	10.22%	5.03%	\$ 128,526.59	\$ 6,463.19	22.91%	8.71%	14.20%	\$ 123,660.25	\$ 17,563.54
Environmental & Waste Services	307	1.27	5.93%	11.27%	-5.33%	\$ 48,397.00	\$ (2,581.46)	14.39%	9.12%	5.27%	\$ 57,351.81	\$ 3,020.60
Farming/Agriculture	408	0.90	9.68%	8.64%	1.04%	\$ 162,622.40	\$ 1,685.39	8.13%	6.48%	1.65%	\$ 286,014.24	\$ 4,720.15
Financial Svcs. (Non-bank & Insurance)	966	0.79	24.84%	7.82%	17.02%	\$ 521,725.62	\$ 88,790.09	0.36%	3.41%	-3.05%	\$ 9,443,887.52	\$ (288,157.74)
Food Processing	1247	0.77	12.64%	7.71%	4.93%	\$ 504,482.92	\$ 24,874.77	14.22%	6.71%	7.51%	\$ 633,504.15	\$ 47,580.55
Food Wholesalers	125	0.81	10.68%	7.97%	2.71%	\$ 26,527.02	\$ 719.01	15.64%	5.71%	9.94%	\$ 41,735.49	\$ 4,147.01
Furn/Home Furnishings	303	1.01	15.35%	9.42%	5.93%	\$ 81,139.03	\$ 4,811.60	16.09%	8.33%	7.76%	\$ 92,359.55	\$ 7,168.40
Green & Renewable Energy	167	1.20	7.80%	10.79%	-2.99%	\$ 64,081.35	\$ (1,917.58)	8.15%	7.61%	0.54%	\$ 133,848.74	\$ 727.66
Healthcare Products	642	0.97	11.45%	9.16%	2.29%	\$ 193,400.16	\$ 4,435.44	15.69%	8.40%	7.29%	\$ 225,139.21	\$ 16,411.70
Healthcare Support Services	335	1.11	11.38%	10.15%	1.23%	\$ 241,334.30	\$ 2,967.80	28.81%	8.49%	20.33%	\$ 168,966.24	\$ 34,343.81
Healthcare Information and Technology	285	1.14	9.65%	10.33%	-0.68%	\$ 56,104.71	\$ (383.81)	15.56%	9.22%	6.34%	\$ 64,319.58	\$ 4,077.28
Homebuilding	160	1.34	12.17%	11.77%	0.40%	\$ 89,425.74	\$ 355.44	8.08%	8.65%	-0.57%	\$ 143,813.74	\$ (820.40)
Hospitals/Healthcare Facilities	199	0.83	12.24%	8.15%	4.10%	\$ 81,824.30	\$ 3,352.24	8.13%	6.13%	1.99%	\$ 203,228.58	\$ 4,050.76
Hotel/Gaming	665	0.94	9.68%	8.90%	0.78%	\$ 255,453.70	\$ 2,003.25	9.28%	7.18%	2.10%	\$ 405,304.23	\$ 8,495.31
Household Products	465	0.98	17.59%	9.19%	8.39%	\$ 199,979.07	\$ 16,785.89	23.56%	8.44%	15.12%	\$ 210,796.67	\$ 31,872.02
Information Services	185	1.06	22.36%	9.78%	12.58%	\$ 102,218.06	\$ 12,856.31	35.83%	9.02%	26.81%	\$ 83,707.85	\$ 22,444.00
Insurance (General)	233	0.72	10.77%	7.31%	3.46%	\$ 540,830.77	\$ 18,714.33	14.32%	6.01%	8.30%	\$ 567,808.24	\$ 47,153.83
Insurance (Life)	124	1.04	10.95%	9.61%	1.34%	\$ 600,839.89	\$ 8,053.53	12.13%	7.40%	4.72%	\$ 749,483.84	\$ 35,410.05
Insurance (Prop/Cas.)	220	0.60	10.69%	6.45%	4.23%	\$ 365,936.00	\$ 15,490.10	12.48%	5.60%	6.88%	\$ 439,538.22	\$ 30,247.37
Investments & Asset Management	914	0.89	12.25%	8.57%	3.68%	\$ 342,763.84	\$ 12,613.47	8.21%	6.39%	1.82%	\$ 521,330.04	\$ 9,483.32
Machinery	1272	1.12	11.77%	10.23%	1.54%	\$ 375,862.90	\$ 5,802.36	12.27%	8.95%	3.31%	\$ 441,936.49	\$ 14,636.79

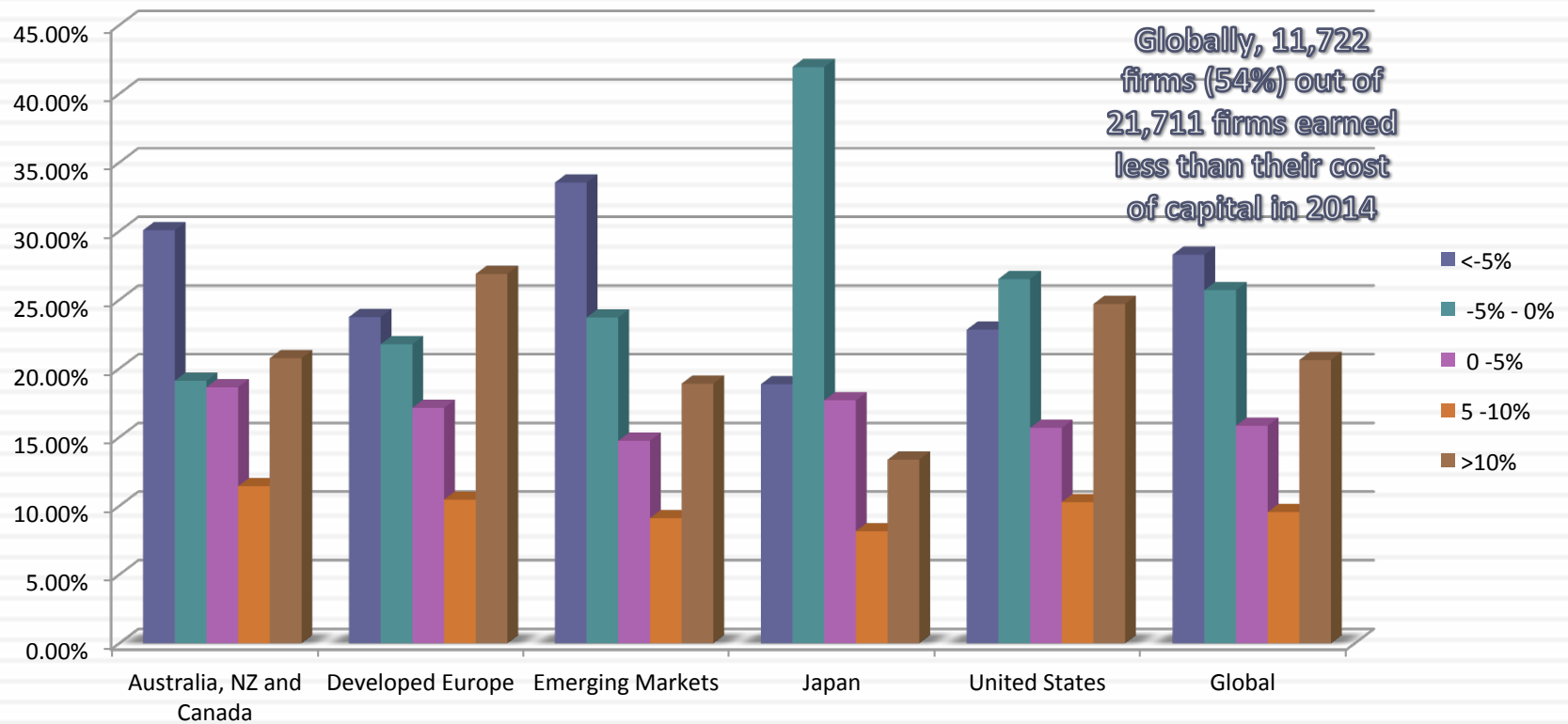
Excess Returns by Sector: Global

January 2015

Metals & Mining	1589	1.43	8.00%	12.45%	-4.45%	\$ 652,113.20	\$ (29,020.32)	11.67%	9.63%	2.05%	\$ 979,450.12	\$ 20,052.44
Office Equipment & Services	155	0.91	10.97%	8.73%	2.23%	\$ 19,529.19	\$ 435.82	12.73%	6.95%	5.78%	\$ 28,753.61	\$ 1,661.11
Oil/Gas (Integrated)	55	1.40	11.41%	12.19%	-0.78%	\$ 1,942,272.99	\$ (15,212.15)	9.99%	9.65%	0.35%	\$ 2,494,902.49	\$ 8,616.70
Oil/Gas (Production and Exploration)	1140	1.48	8.23%	12.82%	-4.59%	\$ 791,509.26	\$ (36,353.98)	11.72%	9.87%	1.85%	\$ 1,119,192.26	\$ 20,718.92
Oil/Gas Distribution	215	1.23	9.15%	11.02%	-1.86%	\$ 222,227.55	\$ (4,133.89)	8.39%	8.21%	0.18%	\$ 503,601.88	\$ 925.02
Oilfield Svcs/Equip.	586	1.38	9.97%	12.11%	-2.14%	\$ 488,274.18	\$ (10,439.89)	10.48%	9.15%	1.33%	\$ 707,002.98	\$ 9,430.58
Packaging & Container	398	0.79	11.20%	7.84%	3.36%	\$ 81,137.23	\$ 2,726.89	11.72%	6.28%	5.44%	\$ 129,263.91	\$ 7,031.15
Paper/Forest Products	303	0.96	4.52%	9.06%	-4.53%	\$ 134,266.01	\$ (6,088.69)	5.61%	6.41%	-0.80%	\$ 240,237.70	\$ (1,918.13)
Power	574	0.87	8.15%	8.42%	-0.26%	\$ 1,252,718.27	\$ (3,305.93)	6.80%	5.70%	1.10%	\$ 2,650,836.21	\$ 29,160.85
Precious Metals	1079	1.48	-6.32%	12.80%	-19.13%	\$ 229,077.32	\$ (43,813.53)	2.64%	10.57%	-7.93%	\$ 273,163.28	\$ (21,655.28)
Publishing & Newspapers	373	1.02	13.40%	9.50%	3.90%	\$ 135,815.92	\$ 5,291.94	10.71%	7.95%	2.75%	\$ 137,341.05	\$ 3,781.89
R.E.I.T.	482	0.79	10.48%	7.81%	2.67%	\$ 579,950.61	\$ 15,481.46	3.32%	5.62%	-2.31%	\$ 1,482,976.32	\$ (34,211.67)
Real Estate (Development)	703	1.16	14.27%	10.52%	3.76%	\$ 429,557.17	\$ 16,143.81	9.14%	6.90%	2.24%	\$ 663,214.68	\$ 14,841.11
Real Estate (General/Diversified)	449	1.08	8.94%	9.90%	-0.96%	\$ 457,568.39	\$ (4,409.20)	4.89%	6.81%	-1.92%	\$ 781,898.80	\$ (15,035.54)
Real Estate (Operations & Services)	577	0.92	8.00%	8.77%	-0.77%	\$ 267,203.57	\$ (2,049.44)	5.23%	5.99%	-0.76%	\$ 519,715.76	\$ (3,969.11)
Recreation	293	1.07	11.81%	9.82%	1.99%	\$ 66,939.85	\$ 1,330.66	9.82%	8.32%	1.50%	\$ 101,093.89	\$ 1,519.23
Reinsurance	40	1.21	13.66%	10.83%	2.83%	\$ 128,296.56	\$ 3,632.00	14.99%	8.85%	6.14%	\$ 139,352.04	\$ 8,555.84
Restaurant/Dining	306	0.84	19.55%	8.21%	11.34%	\$ 84,681.78	\$ 9,602.07	12.01%	6.90%	5.10%	\$ 172,026.24	\$ 8,781.68
Retail (Automotive)	149	0.96	19.36%	9.05%	10.30%	\$ 39,136.86	\$ 4,032.24	9.99%	6.97%	3.02%	\$ 92,327.80	\$ 2,784.72
Retail (Building Supply)	50	1.03	19.41%	9.54%	9.87%	\$ 55,796.88	\$ 5,507.20	11.71%	8.18%	3.53%	\$ 101,393.22	\$ 3,579.74
Retail (Distributors)	889	0.93	9.61%	8.84%	0.77%	\$ 349,102.06	\$ 2,681.21	6.18%	5.96%	0.22%	\$ 668,340.14	\$ 1,450.46
Retail (General)	231	0.93	12.52%	8.84%	3.68%	\$ 352,388.52	\$ 12,967.53	9.01%	7.00%	2.00%	\$ 599,718.81	\$ 12,013.61
Retail (Grocery and Food)	180	0.85	10.18%	8.24%	1.93%	\$ 193,984.83	\$ 3,750.53	7.30%	6.06%	1.24%	\$ 372,521.61	\$ 4,622.97
Retail (Online)	115	1.42	11.52%	12.34%	-0.82%	\$ 29,950.27	\$ (246.73)	17.10%	11.60%	5.50%	\$ 34,390.91	\$ 1,890.50
Retail (Special Lines)	540	1.03	14.05%	9.57%	4.47%	\$ 276,477.25	\$ 12,367.94	11.13%	7.93%	3.21%	\$ 448,507.73	\$ 14,375.18
Rubber & Tires	89	1.13	14.55%	10.29%	4.26%	\$ 62,113.01	\$ 2,648.18	12.44%	8.19%	4.25%	\$ 108,008.83	\$ 4,594.82
Semiconductor	564	1.27	14.96%	11.30%	3.66%	\$ 287,973.38	\$ 10,529.36	12.65%	10.38%	2.28%	\$ 432,419.68	\$ 9,842.46
Semiconductor Equip	259	1.40	5.44%	12.25%	-6.81%	\$ 74,721.95	\$ (5,089.53)	8.54%	11.04%	-2.50%	\$ 97,777.23	\$ (2,446.58)
Shipbuilding & Marine	354	1.26	6.54%	11.19%	-4.65%	\$ 232,209.75	\$ (10,803.77)	4.65%	7.53%	-2.89%	\$ 440,760.68	\$ (12,724.23)
Shoe	95	0.86	15.78%	8.35%	7.42%	\$ 36,255.58	\$ 2,690.75	14.71%	7.78%	6.94%	\$ 43,901.50	\$ 3,044.77
Software (Entertainment)	119	1.19	8.30%	10.72%	-2.41%	\$ 45,581.95	\$ (1,100.70)	9.82%	10.04%	-0.22%	\$ 37,891.28	\$ (85.04)
Software (Internet)	759	1.34	14.78%	11.77%	3.01%	\$ 199,180.99	\$ 6,001.43	17.14%	11.34%	5.80%	\$ 211,468.23	\$ 12,265.02
Software (System & Application)	991	1.12	17.73%	10.24%	7.49%	\$ 264,141.50	\$ 19,785.16	21.97%	9.67%	12.30%	\$ 290,263.73	\$ 35,696.77
Steel	757	1.28	0.65%	11.34%	-10.70%	\$ 485,148.78	\$ (51,909.37)	5.22%	7.51%	-2.29%	\$ 845,783.97	\$ (19,376.41)
Telecom (Wireless)	117	1.17	23.02%	10.55%	12.48%	\$ 567,368.45	\$ 70,782.78	9.69%	8.04%	1.65%	\$ 876,166.89	\$ 14,452.67
Telecom. Equipment	484	1.18	13.72%	10.61%	3.11%	\$ 195,809.22	\$ 6,088.52	11.52%	9.75%	1.78%	\$ 265,273.39	\$ 4,712.14
Telecom. Services	308	1.01	14.91%	9.44%	5.47%	\$ 668,751.48	\$ 36,596.14	13.64%	7.05%	6.59%	\$ 1,165,366.56	\$ 76,848.55
Tobacco	61	0.77	59.64%	7.66%	51.98%	\$ 55,090.31	\$ 28,635.64	52.27%	6.97%	45.29%	\$ 84,433.86	\$ 38,241.62
Transportation	225	0.88	13.89%	8.49%	5.40%	\$ 159,591.52	\$ 8,617.29	11.57%	6.70%	4.87%	\$ 273,760.32	\$ 13,327.52
Transportation (Railroads)	53	1.00	13.83%	9.36%	4.47%	\$ 207,903.58	\$ 9,303.65	8.88%	7.66%	1.22%	\$ 398,457.86	\$ 4,849.26
Trucking	190	0.96	10.51%	9.04%	1.47%	\$ 58,673.43	\$ 863.12	9.19%	6.67%	2.53%	\$ 124,818.73	\$ 3,157.06
Unclassified	33	0.86	-7.15%	8.34%	-15.49%	\$ 327.09	\$ (50.65)	6.38%	6.49%	-0.11%	\$ 688.59	\$ (0.79)
Utility (General)	56	0.80	2.02%	7.90%	-5.88%	\$ 345,883.46	\$ (20,320.67)	7.44%	5.61%	1.84%	\$ 663,006.20	\$ 12,172.14
Utility (Water)	98	0.98	13.69%	9.17%	4.51%	\$ 41,936.65	\$ 1,892.18	9.19%	7.11%	2.08%	\$ 82,466.60	\$ 1,715.34
Total Market	42410	1.07	11.42%	9.87%	1.56%	\$ 31,808,271.03	\$ 494,651.65	5.93%	6.94%	-1.01%	\$ 69,545,764.00	\$ (700,731.10)

Return Spreads Globally in January 2015

Excess Return (ROC minus Cost of Capital) for firms with market capitalization > \$50 million: Global in 2014



Debt Ratios by Sector: Global

January 2015

<i>Industry</i>	<i>Number of firms</i>	<i>Book Debt to Capital</i>	<i>Market Debt to Capital (Unadjusted)</i>	<i>Market D/E (unadjusted)</i>	<i>Market Debt to Capital (adjusted for leases)</i>	<i>Market D/E (adjusted for leases)</i>
Advertising	253	34.09%	17.12%	20.66%	23.31%	30.39%
Aerospace/Defense	208	39.00%	16.39%	19.60%	18.10%	22.09%
Air Transport	158	58.23%	37.69%	60.48%	49.06%	96.31%
Apparel	1174	28.45%	14.93%	17.54%	19.89%	24.84%
Auto & Truck	125	53.78%	44.90%	81.48%	45.27%	82.73%
Auto Parts	632	30.49%	19.25%	23.83%	20.24%	25.38%
Bank (Money Center)	604	75.18%	73.21%	273.33%	73.39%	275.73%
Banks (Regional)	911	51.50%	52.61%	111.00%	53.21%	113.70%
Beverage (Alcoholic)	216	39.04%	18.28%	22.37%	18.82%	23.18%
Beverage (Soft)	108	51.47%	18.55%	22.77%	19.20%	23.77%
Broadcasting	138	46.56%	26.99%	36.97%	29.37%	41.58%
Brokerage & Investment Banking	551	77.87%	66.90%	202.15%	67.14%	204.34%
Building Materials	432	37.40%	25.45%	34.14%	27.13%	37.23%
Business & Consumer Services	759	42.22%	18.71%	23.02%	21.87%	27.99%
Cable TV	64	73.28%	32.15%	47.39%	32.90%	49.03%
Chemical (Basic)	731	37.84%	29.59%	42.03%	30.25%	43.37%
Chemical (Diversified)	85	41.93%	27.48%	37.89%	28.94%	40.73%
Chemical (Specialty)	700	36.33%	18.10%	22.10%	19.09%	23.60%
Coal & Related Energy	321	40.91%	34.71%	53.15%	35.06%	53.98%
Computer Services	934	35.70%	13.88%	16.12%	16.07%	19.15%
Computers/Peripherals	329	22.51%	10.37%	11.56%	11.15%	12.55%
Construction Supplies	751	43.78%	31.62%	46.24%	32.34%	47.79%
Diversified	378	45.69%	38.64%	62.97%	39.72%	65.89%
Drugs (Biotechnology)	782	37.39%	7.08%	7.61%	7.64%	8.28%
Drugs (Pharmaceutical)	877	31.40%	10.96%	12.31%	11.43%	12.91%
Education	170	25.78%	13.58%	15.71%	21.75%	27.79%
Electrical Equipment	838	35.81%	20.03%	25.05%	21.03%	26.63%
Electronics (Consumer & Office)	151	35.40%	27.17%	37.30%	28.81%	40.46%
Electronics (General)	1227	26.99%	17.19%	20.75%	17.84%	21.71%
Engineering/Construction	1148	53.38%	43.70%	77.62%	44.62%	80.56%
Entertainment	350	41.42%	17.67%	21.47%	21.67%	27.67%
Environmental & Waste Services	307	46.02%	24.61%	32.64%	26.68%	36.38%
Farming/Agriculture	408	48.07%	36.85%	58.34%	37.62%	60.31%
Financial Svcs. (Non-bank & Insurance)	966	91.71%	89.49%	851.43%	89.52%	854.38%

Debt Ratios by Sector: Global

January 2015

Industry	Number of firms	Market Debt to Capital (adjusted for leases)				
		Book Debt to Capital	Market Debt to Capital (Unadjusted)	Market D/E (unadjusted)	Market D/E (adjusted for leases)	Market D/E (adjusted for leases)
Food Processing	1247	39.67%	19.65%	24.45%	20.81%	26.27%
Food Wholesalers	125	45.97%	40.46%	67.96%	44.51%	80.21%
Furn/Home Furnishings	303	28.91%	15.09%	17.77%	16.71%	20.06%
Green & Renewable Energy	167	52.46%	41.78%	71.76%	42.14%	72.84%
Healthcare Products	642	33.68%	12.08%	13.74%	12.80%	14.68%
Healthcare Support Services	335	39.24%	20.61%	25.95%	22.93%	29.75%
Healthcare Information and Technology	285	41.24%	15.14%	17.85%	16.49%	19.74%
Homebuilding	160	39.40%	32.36%	47.85%	36.53%	57.54%
Hospitals/Healthcare Facilities	199	60.55%	34.74%	53.22%	38.34%	62.18%
Hotel/Gaming	665	43.49%	25.15%	33.60%	28.60%	40.05%
Household Products	465	35.86%	11.60%	13.12%	12.70%	14.54%
Information Services	185	38.43%	10.67%	11.94%	11.71%	13.26%
Insurance (General)	233	29.37%	27.98%	38.86%	29.30%	41.45%
Insurance (Life)	124	39.13%	32.20%	47.49%	32.85%	48.93%
Insurance (Prop/Cas.)	220	26.47%	22.78%	29.51%	23.97%	31.52%
Investments & Asset Management	914	43.40%	37.57%	60.18%	38.41%	62.35%
Machinery	1272	31.87%	16.57%	19.86%	17.38%	21.04%
Metals & Mining	1589	36.68%	31.14%	45.23%	31.87%	46.77%
Office Equipment & Services	155	43.51%	24.57%	32.58%	30.48%	43.85%
Oil/Gas (Integrated)	55	23.26%	22.73%	29.41%	27.35%	37.65%
Oil/Gas (Production and Exploration)	1140	34.63%	30.69%	44.28%	31.98%	47.02%
Oil/Gas Distribution	215	51.92%	33.77%	50.99%	34.58%	52.85%
Oilfield Svcs/Equip.	586	39.83%	31.30%	45.56%	33.42%	50.20%
Packaging & Container	398	48.91%	30.22%	43.32%	31.57%	46.14%
Paper/Forest Products	303	48.39%	42.09%	72.67%	42.96%	75.32%
Power	574	54.56%	48.12%	92.74%	49.19%	96.82%
Precious Metals	1079	27.39%	25.98%	35.09%	26.22%	35.54%
Publishing & Newspapers	373	35.16%	21.96%	28.15%	24.72%	32.84%
R.E.I.T.	482	56.45%	43.46%	76.85%	44.49%	80.16%
Real Estate (Development)	703	47.15%	47.26%	89.63%	47.42%	90.20%
Real Estate (General/Diversified)	449	40.26%	42.19%	72.97%	44.11%	78.94%
Real Estate (Operations & Services)	577	45.79%	46.33%	86.33%	47.25%	89.56%
Recreation	293	37.36%	18.82%	23.19%	21.63%	27.60%
Reinsurance	40	22.29%	23.98%	31.55%	24.87%	33.10%

Debt Ratios by Sector: Global

January 2015

<i>Industry</i>	<i>Number of firms</i>	<i>Book Debt to Capital</i>	<i>Market Debt to Capital (Unadjusted)</i>	<i>Market D/E (unadjusted)</i>	<i>Market Debt to Capital (adjusted for leases)</i>	<i>Market D/E (adjusted for leases)</i>
Restaurant/Dining	306	50.69%	16.54%	19.82%	24.61%	32.64%
Retail (Automotive)	149	58.36%	28.21%	39.30%	33.74%	50.93%
Retail (Building Supply)	50	42.64%	13.32%	15.37%	20.43%	25.68%
Retail (Distributors)	889	52.79%	46.80%	87.98%	48.46%	94.01%
Retail (General)	231	40.62%	22.80%	29.53%	30.82%	44.55%
Retail (Grocery and Food)	180	42.01%	28.55%	39.95%	40.82%	68.98%
Retail (Online)	115	34.64%	6.62%	7.09%	8.44%	9.22%
Retail (Special Lines)	540	32.18%	12.10%	13.76%	24.59%	32.61%
Rubber& Tires	89	37.51%	26.59%	36.23%	28.39%	39.64%
Semiconductor	564	26.63%	10.93%	12.27%	11.47%	12.95%
Semiconductor Equip	259	29.29%	13.11%	15.09%	13.47%	15.56%
Shipbuilding & Marine	354	43.90%	39.11%	64.22%	44.10%	78.89%
Shoe	95	19.46%	6.72%	7.20%	10.52%	11.76%
Software (Entertainment)	119	15.73%	8.20%	8.94%	9.48%	10.47%
Software (Internet)	759	16.41%	4.14%	4.31%	5.23%	5.52%
Software (System & Application)	991	25.04%	7.04%	7.58%	8.14%	8.86%
Steel	757	45.33%	46.76%	87.84%	47.34%	89.90%
Telecom (Wireless)	117	41.27%	28.78%	40.40%	32.79%	48.78%
Telecom. Equipment	484	24.65%	10.69%	11.97%	11.72%	13.28%
Telecom. Services	308	51.57%	35.35%	54.67%	38.63%	62.95%
Tobacco	61	64.07%	14.17%	16.50%	14.43%	16.87%
Transportation	225	47.76%	27.88%	38.66%	31.89%	46.82%
Transportation (Railroads)	53	45.81%	25.13%	33.56%	26.24%	35.57%
Trucking	190	55.57%	34.94%	53.72%	38.57%	62.80%
Unclassified	33	57.25%	36.16%	56.63%	36.24%	56.84%
Utility (General)	56	53.97%	44.77%	81.05%	45.72%	84.23%
Utility (Water)	98	50.89%	32.49%	48.13%	32.89%	49.01%
Total Market	42410	57.29%	43.01%	75.46%	44.24%	79.33%

Indonesian Companies: Optimal Debt Ratios

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<i>Company</i>	<i>EBITDA/EV</i>	<i>Market Debt to Capital</i>	<i>Optimal Debt Ratio</i>	<i>Change in Value</i>
Krakatau Steel	-2.75%	78.94%	0.00%	55.19%
Bumi Resources	13.14%	95.14%	0.00%	61.57%
Lippo Karawacki	10.20%	26.45%	10.00%	10.28%
Gudang Garam	9.68%	14.34%	10.00%	-0.01%
Perushann Gas	11.24%	21.39%	20.00%	-0.14%
Semen Indonesia	10.31%	4.74%	10.00%	0.44%
United Tractors	19.17%	3.36%	20.00%	1.70%
Media Nusantra	8.87%	10.30%	20.00%	0.91%
Indosat	19.61%	57.31%	0.00%	75.18%

Indonesian Companies: Debt Ratios

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<i>Company</i>	<i>EBITDA</i>	<i>Debt/EBITDA</i>	<i>Market Debt to Capital</i>	<i>Industry for comparison</i>	<i>Industry Average Debt to Capital (Market)</i>
Krakatau Steel	IDR 48.00	-31.85	78.94%	Steel	47.34%
Bumi Resources	IDR 581.00	7.28	95.14%	Coal & Related Energy	35.06%
Lippo Karawacki	IDR 2,974.00	3.63	26.45%	Real Estate (General/ Diversified)	44.11%
Gudang Garam	IDR 10,088.00	1.50	14.34%	Tobacco	14.43%
Perushann Gas	IDR 980.00	2.19	21.39%	Oil/Gas Distribution	34.58%
Semen Indonesia	IDR 8,204.00	0.48	4.74%	Construction Supplies	32.34%
United Tractors	IDR 12,900.00	0.20	3.36%	Machinery	17.38%
Media Nusantara	IDR 2,809.00	1.20	10.30%	Entertainment	21.67%
Indosat	IDR 8,654.00	3.15	57.31%	Telecom. Services	38.63%

Dividend yield and payout

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COP US Equity		98) Report	99) Feedback	Page 3/4	Description: Ratios
1) Profile		2) Issue Info		3) Ratios	4) Revenue & EPS
Fiscal Year End	12/2011			5) Income Statements (FA IS)	
* Last Quarter End	03/12 Q1			6) Balance Sheet (FA BS)	
~ Current/T12M	(USD)			7) Cash Flow (FA CF)	
Issue Data		Per Share Data		Cash Flow Analysis	
~ Last Px	USD/52.56	~ EPS T12M	8.96	P/CF	3.2
~ P/E	5.9	~ DPS	2.64	Curr P/FCF	9.9
~ Dvd Ind Yld	5.0%	* Bk Val Per Sh	52.61	CF/NI	1.6
* P/B	1.00	Rev/BEPS	167.89	Dvd P/O	29.2%
~ P/S	0.3	CPS	14.29	Cash Gen/Cash Reqd	1.2
~ Curr EV/T12M EBITDA	3.6	* Curr Shares Out	1.3B	Cash Dividend Coverage	3.4
~ Mkt Cap	66458.8	FCF/Basic Sh	4.64	CFO/Sales	8.5%
~ Curr EV	91.1B			Effective Interest Rate	6.3%
Growth Potential		Profitability		Structure	
Dil EPS frm Contin Ops	48.1%	EBITDA	26.3B	Curr Ratio	1.1
Capital - 1 Yr Growth	-4.7%	EBIT	18.3B	Quick Ratio	0.7
BVS - 1 Yr Growth	5.9%	OPM	7.9%	Debt/Assets	14.8%
R & D to Sales	0.1%	Pretax Mrgn	10.0%	Debt/Com Eq	34.7%
Retention Ratio	70.8%	ROA	8.0%	A/R Trnovr	16.2
Rev - 1 Yr Gr	31.4%	ROE	18.6%	Inv Turnover	42.5
Employees - 1 Yr Growt	0.3%	ROC	14.4%	GM	9.5%
Assets - 1 Yr Growth	-2.0%	Asset Turnover	1.5	EBIT/Tot Int Exp	12.6
<small> Australia 61 2 9777 8600 Brazil 5511 3048 4500 Europe 44 20 7330 7500 Germany 49 69 9204 1210 Hong Kong 852 2977 6000 Japan 81 3 3201 8900 Singapore 65 6212 1000 U.S. 1 212 318 2000 Copyright 2012 Bloomberg Finance L.P. SN 636136 EDT GMT-4:00 G712-4474-0 31-May-2012 15:58:18 </small>					

Dividend Yields and Payout Ratios: By Sector

January 2015

Industry	Number of firms	Dividend Payout	Dividend Yield	Market Cap	ROE	Institutional Holdings	Std Dev in Stock Prices
Advertising	253	51.39%	1.81%	\$168,196.90	10.21%	21.21%	56.72%
Aerospace/Defense	208	32.53%	1.76%	\$864,408.61	21.05%	38.43%	47.90%
Air Transport	158	32.69%	1.35%	\$455,372.09	11.09%	27.64%	43.55%
Apparel	1174	43.21%	1.88%	\$711,790.20	12.07%	15.14%	51.79%
Auto & Truck	125	29.62%	2.63%	\$1,112,947.75	14.68%	20.35%	45.05%
Auto Parts	632	22.84%	1.47%	\$570,952.62	13.32%	21.23%	47.79%
Bank (Money Center)	604	36.72%	3.03%	\$6,240,163.92	10.26%	19.70%	35.24%
Banks (Regional)	911	23.45%	1.87%	\$701,385.68	8.55%	25.91%	36.79%
Beverage (Alcoholic)	216	54.73%	2.41%	\$873,408.46	14.10%	21.40%	43.05%
Beverage (Soft)	108	58.13%	2.52%	\$435,567.72	20.79%	23.35%	42.96%
Broadcasting	138	55.67%	1.86%	\$214,655.41	8.64%	25.33%	50.58%
Brokerage & Investment Banking	551	27.72%	1.24%	\$733,725.16	9.01%	18.52%	56.73%
Building Materials	432	39.47%	1.79%	\$251,363.66	8.50%	22.23%	47.42%
Business & Consumer Services	759	65.48%	2.73%	\$512,365.16	15.21%	31.42%	50.70%
Cable TV	64	29.91%	1.04%	\$586,172.42	23.75%	30.61%	43.88%
Chemical (Basic)	731	62.94%	3.33%	\$529,131.53	8.91%	15.16%	46.40%
Chemical (Diversified)	85	46.56%	2.69%	\$305,167.70	12.43%	29.98%	43.73%
Chemical (Specialty)	700	47.61%	2.21%	\$844,562.31	12.32%	21.88%	49.35%
Coal & Related Energy	321	117.15%	3.47%	\$259,409.20	4.50%	15.11%	72.21%
Computer Services	934	31.39%	1.66%	\$743,351.03	19.68%	21.18%	52.97%
Computers/Peripherals	329	26.45%	1.78%	\$1,313,558.28	18.26%	23.53%	55.30%
Construction Supplies	751	54.25%	2.43%	\$907,980.61	8.90%	20.74%	48.14%
Diversified	378	29.93%	1.81%	\$1,731,835.29	10.75%	22.55%	38.88%
Drugs (Biotechnology)	782	29.31%	0.31%	\$943,741.19	10.58%	24.97%	85.38%
Drugs (Pharmaceutical)	877	61.73%	2.29%	\$3,053,203.01	15.00%	21.98%	55.39%
Education	170	62.79%	1.46%	\$62,086.41	6.10%	25.88%	56.66%
Electrical Equipment	838	57.16%	1.80%	\$643,520.58	7.76%	18.52%	49.99%
Electronics (Consumer & Office)	151	101.58%	1.44%	\$146,351.44	2.35%	20.23%	52.36%
Electronics (General)	1227	31.53%	1.40%	\$757,549.66	9.11%	21.17%	52.45%
Engineering/Construction	1148	67.19%	2.98%	\$711,728.15	7.62%	18.79%	52.45%
Entertainment	350	25.94%	1.13%	\$450,205.25	15.25%	18.75%	59.72%
Environmental & Waste Services	307	86.61%	1.89%	\$131,236.26	5.93%	22.58%	62.88%
Farming/Agriculture	408	37.77%	2.11%	\$281,862.12	9.68%	18.40%	46.18%
Financial Svcs. (Non-bank & Insurance)	966	333.91%	5.77%	\$1,072,215.05	24.84%	25.35%	45.27%
Food Processing	1247	51.45%	2.18%	\$1,507,502.58	12.64%	18.50%	42.50%
Food Wholesalers	125	50.99%	2.50%	\$57,743.90	10.68%	19.15%	45.54%
Furn/Home Furnishings	303	37.28%	2.14%	\$216,981.14	15.35%	20.25%	49.73%
Green & Renewable Energy	167	87.40%	3.38%	\$129,126.12	7.80%	16.29%	53.45%
Healthcare Products	642	38.96%	1.12%	\$772,281.64	11.45%	30.18%	58.69%
Healthcare Support Services	335	25.05%	1.05%	\$653,835.89	11.38%	31.37%	47.70%
Healthcare Information and Technology	285	17.60%	0.36%	\$262,498.45	9.65%	29.17%	68.43%
Homebuilding	160	19.62%	1.48%	\$144,152.30	12.17%	34.98%	51.33%
Hospitals/Healthcare Facilities	199	59.84%	1.99%	\$301,318.98	12.24%	35.63%	41.92%
Hotel/Gaming	665	53.66%	1.96%	\$679,003.08	9.68%	21.55%	46.98%
Household Products	465	54.33%	2.13%	\$898,844.34	17.59%	20.50%	50.39%
Information Services	185	25.90%	1.03%	\$577,126.54	22.36%	38.95%	51.45%
Insurance (General)	233	42.41%	3.51%	\$702,914.41	10.77%	31.00%	35.05%
Insurance (Life)	124	31.70%	2.06%	\$1,014,895.18	10.95%	35.40%	36.75%
Insurance (Prop/Cas.)	220	30.35%	2.34%	\$507,210.88	10.69%	39.49%	37.33%
Investments & Asset Management	914	45.31%	2.82%	\$674,984.32	12.25%	26.49%	47.25%

Dividend Yields and Payout Ratios: By Sector

January 2015

<i>Industry</i>	<i>Number of firms</i>	<i>Dividend Payout</i>	<i>Dividend Yield</i>	<i>Market Cap</i>	<i>ROE</i>	<i>Institutional Holdings</i>	<i>Std Dev in Stock Prices</i>
Machinery	1272	36.57%	1.74%	\$929,370.08	11.77%	22.60%	48.15%
Metals & Mining	1589	69.85%	3.66%	\$994,000.27	8.00%	11.99%	79.34%
Office Equipment & Services	155	37.55%	1.66%	\$48,572.17	10.97%	20.65%	48.07%
Oil/Gas (Integrated)	55	44.94%	4.64%	\$2,144,442.09	11.41%	31.67%	40.33%
Oil/Gas (Production and Exploration)	1140	52.89%	3.26%	\$1,058,249.15	8.23%	25.12%	73.94%
Oil/Gas Distribution	215	138.99%	3.50%	\$808,999.39	9.15%	29.97%	45.55%
Oilfield Svcs/Equip.	586	40.25%	2.38%	\$822,786.23	9.97%	27.77%	56.14%
Packaging & Container	398	44.73%	2.13%	\$190,903.07	11.20%	20.50%	44.72%
Paper/Forest Products	303	73.54%	2.55%	\$174,934.62	4.52%	20.15%	47.03%
Power	574	68.52%	3.83%	\$1,825,639.40	8.15%	22.63%	38.21%
Precious Metals	1079	0.76%	1.47%	\$254,896.66	-6.32%	16.43%	95.83%
Publishing & Newspapers	373	37.79%	2.52%	\$273,095.03	13.40%	26.94%	52.04%
R.E.I.T.	482	69.95%	3.49%	\$1,218,416.28	10.48%	51.12%	29.85%
Real Estate (Development)	703	37.86%	4.07%	\$570,288.80	14.27%	15.18%	48.53%
Real Estate (General/Diversified)	449	26.94%	2.03%	\$543,453.41	8.94%	16.11%	49.50%
Real Estate (Operations & Services)	577	40.10%	2.40%	\$357,163.56	8.00%	23.46%	43.86%
Recreation	293	42.07%	1.79%	\$185,975.51	11.81%	23.26%	49.10%
Reinsurance	40	27.39%	3.66%	\$131,197.20	13.66%	49.31%	28.34%
Restaurant/Dining	306	50.15%	1.84%	\$451,701.73	19.55%	29.35%	41.15%
Retail (Automotive)	149	23.19%	1.13%	\$155,748.71	19.36%	28.95%	43.92%
Retail (Building Supply)	50	37.86%	1.69%	\$242,704.73	19.41%	29.84%	35.64%
Retail (Distributors)	889	36.45%	2.36%	\$517,839.78	9.61%	21.26%	49.35%
Retail (General)	231	40.62%	1.92%	\$932,182.74	12.52%	25.89%	40.14%
Retail (Grocery and Food)	180	59.23%	2.63%	\$444,791.38	10.18%	24.23%	36.41%
Retail (Online)	115	21.12%	0.22%	\$328,027.45	11.52%	34.70%	72.03%
Retail (Special Lines)	540	36.01%	1.40%	\$995,910.00	14.05%	30.32%	47.17%
Rubber & Tires	89	29.66%	2.30%	\$116,447.37	14.55%	18.20%	43.79%
Semiconductor	564	36.86%	1.70%	\$933,475.60	14.96%	26.70%	53.27%
Semiconductor Equip	259	50.43%	0.94%	\$217,355.70	5.44%	25.55%	57.71%
Shipbuilding & Marine	354	54.65%	2.52%	\$329,343.86	6.54%	17.56%	49.49%
Shoe	95	43.87%	1.78%	\$140,568.97	15.78%	22.04%	49.82%
Software (Entertainment)	119	18.47%	0.78%	\$89,237.86	8.30%	16.39%	68.74%
Software (Internet)	759	7.22%	0.18%	\$1,196,963.43	14.78%	25.91%	68.76%
Software (System & Application)	991	37.91%	1.36%	\$1,307,651.39	17.73%	24.86%	62.34%
Steel	757	519.88%	3.39%	\$480,595.16	0.65%	15.36%	54.23%
Telecom (Wireless)	117	28.10%	3.52%	\$1,042,636.10	23.02%	23.58%	47.57%
Telecom. Equipment	484	40.95%	1.87%	\$587,840.23	13.72%	23.96%	57.38%
Telecom. Services	308	61.31%	4.05%	\$1,507,860.33	14.91%	23.58%	50.50%
Tobacco	61	70.95%	3.83%	\$608,195.80	59.64%	26.82%	39.03%
Transportation	225	52.25%	2.56%	\$452,280.64	13.89%	22.05%	42.81%
Transportation (Railroads)	53	28.44%	1.49%	\$548,922.91	13.83%	29.22%	32.27%
Trucking	190	26.03%	1.10%	\$146,097.18	10.51%	29.19%	42.00%
Unclassified	33	0.05%	0.67%	\$1,170.68	-7.15%	15.87%	58.05%
Utility (General)	56	357.99%	4.75%	\$526,936.97	2.02%	41.30%	32.08%
Utility (Water)	98	55.95%	2.67%	\$120,137.66	13.69%	24.79%	42.62%
Total Market	42410	54.41%	3.02%	\$65,376,597.76	11.42%	22.90%	51.47%

Indonesian Companies: Dividend Statistics

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<i>Company</i>	<i>Dividends</i>	<i>Net Income</i>	<i>Market Cap</i>	<i>Dividend Yield</i>	<i>Dividend Payout</i>	<i>Industry</i>	<i>Industry Dividend Yield</i>	<i>Industry Dividend Payout</i>
Krakatau Steel	IDR 0	-IDR 146	IDR 408	0.00%	NA	Steel	3.39%	519.88%
Bumi Resources	IDR 0	-IDR 218	IDR 216	0.00%	NA	Coal & Related Energy	3.47%	117.15%
Lippo Karawacki	IDR 320	IDR 2,653	IDR 30,001	1.07%	12.06%	Real Estate (General/ Diversified)	2.03%	26.94%
Gudang Garam	IDR 1,539	IDR 5,233	IDR 90,624	1.70%	29.41%	Tobacco	3.83%	70.95%
Perushann Gas	IDR 454	IDR 655	IDR 7,881	5.76%	69.31%	Oil/Gas Distribution	3.50%	138.99%
Semen Indonesia	IDR 2,427	IDR 5,453	IDR 79,779	3.04%	44.51%	Construction Supplies	2.43%	54.25%
United Tractors	IDR 1,995	IDR 5,430	IDR 75,271	2.65%	36.74%	Machinery	1.74%	36.57%
Media Nusantara	IDR 263	IDR 1,658	IDR 29,409	0.89%	15.86%	Entertainment	1.13%	25.94%
Indosat	IDR 0	-IDR 3,243	IDR 20,323	0.00%	NA	Telecom. Services	4.05%	61.31%

Corporate Finance Essentials (

	Estimate 2012 A	Current/1. TM	Original 2011 A	Original 2010 A	Restated 2009 A	Original
For the period ending	2012-12-31	2012-3-31	2011-12-31	2010-12-31	2009-12-31	2008-12-31
Revenue	216,328.25	230,522.00	230,859.00	175,752.00	136,016.00	200,000.00
EBITDA	25,366.80	25,443.00	26,270.00	22,655.00	17,606.00	17,606.00
Operating Income	17,315.89	17,741.00	18,336.00	13,595.00	8,311.00	8,311.00
Total interest expense		1,441.00	1,460.00	1,658.00	1,776.00	1,776.00
Net Income	8,586.67	12,345.00	12,436.00	11,358.00	4,414.00	4,414.00
Cash & Equivalents		4,215.00	6,361.00	10,427.00	542.00	542.00
Total debt		28,360.00	22,623.00	23,592.00	28,653.00	28,653.00
Total Debt Weighted Average Maturity						
Total Equity		67,043.00	65,734.00	69,109.00	62,613.00	62,613.00
Chg in non-cash wc		1,748.00	-351.00	1,867.00	-538.00	-538.00
Capital Expenditures	-13,840.40	-14,642.00	-13,286.00	-9,761.00	-10,651.00	-10,651.00
Increase: LT Debt		5,794.00	0.00	118.00	9,087.00	9,087.00
Decrease: LT Debt						
Inc(Dec) ST Debt		0.00	0.00	0.00	0.00	0.00
Market cap.		66,452.45	96,752.33	100,054.19	75,772.27	75,772.27
Minority Interest		509.00	510.00	547.00	590.00	590.00
Eff tax rate		46.03	45.65	42.19	53.12	53.12
Net Cash Paid for Acquisitions						
Working Capital		636.00	2,150.00	7,241.00	-2,528.00	-2,528.00
Op Lease - Current			869.00	891.00	990.00	990.00
Op Lease - Yr 1			767.00	752.00	872.00	872.00
Op Lease - Yr 2			519.00	573.00	637.00	637.00
Op Lease - Yr 3			382.00	460.00	529.00	529.00
Op Lease - Yr 4			300.00	308.00	346.00	346.00
Op Lease - Yr 5			202.00	245.00	272.00	272.00
Op Lease - Beyond yr 5			591.00	557.00	721.00	721.00
Dividends Paid		-3,531.00	-3,632.00	-3,175.00	-2,832.00	-2,832.00
Dec capital stock		-11,399.00	-11,123.00	-3,866.00	0.00	0.00
Current Shares Outstanding		1,264.56	1,327.74	1,469.22	1,483.69	1,483.69
Price per share		52.04	51.91	38.93	38.49	38.49
Options Outstanding			24.37	32.61	36.43	36.43
End Of Period						
Avg Exercise Price (Options Outstanding)			45.73	39.54	37.13	37.13
Op Lease - Years 2 - 5			1,403.00	1,587.00	1,784.00	1,784.00
R & D expenditures			267.00	230.00	190.00	190.00

Net Income	12,345
+ Deprecn & Amortzn	+ 7,742
+ Chg in non-cash WC	+ 1,748
+ Cap Ex	- 14,642
+ Inc (Dec) in ST Debt	+ 0
+ Increase in LT Debt	+ 5,794
- Decrease in LT Debt	- 0
= FCFE	= 9,491 M

Dividends Paid	- 3,531
Decrease capital stock	-11,623
Dividends + Buybacks	-15,154

Operating Income	17,741
- Taxes = 17741*.4603 =	- 8,166
+ Deprecn & Amortzn	+ 7,742
+ Chg in non-cash WC	+ 1,748
+ Cap Ex	- 14,642
= FCFF	= 4,423 M

EBITDA – Operating Income = Depreciation & Amortization
 $25,443 - 17,741 = 7,742 \text{ M}$

Post-class Analysis

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- Now that you have the numbers for your company, you should be in a position to make an assessment of where your company stands right now, what it does well, what it does badly and what you would change about it.
- Here are some key questions to address:
 - I. Stockholder Analysis: Who has the power and what are the potential conflicts of interest?
 - II. Risk and Return: How risky is your firm and what are its hurdle rates?
 - III. Investments: How good are existing investments and what is the potential for the future?
 - IV. Capital Structure Choices: What are the current financing choices?
 - V. Optimal Financing: What is the optimal mix of debt and equity for the firm?
 - VI. Financing Changes: Should firm move to optimal and what type of debt should it use?
 - VII. Dividend Policy: How much and how does the firm return cash to stockholders?
 - VIII. Dividend Assessment: Should the firm return more or less cash to stockholders?
 - IX: Valuation (optional): What value would you attach to the firm and its equity?