A Dividend Matrix

	Quality of projects taken: Excess Returns							
	Poor projects	Good projects						
to Free Cash flow to Equity Cash Return < FCFE	<i>Cash Surplus + Poor</i> <i>Projects</i> Significant pressure to pay out more to stockholders as dividends or stock buybacks	<i>Cash Surplus + Good Projects</i> Maximum flexibility in setting dividend policy						
Cash Returned, relative Cash return > FCFE	<i>Cash Deficit + Poor Projects</i> Reduce or eliminate cash return but real problem is in investment policy.	<i>Cash Deficit + Good Projects</i> Reduce cash payout, if any, to stockholders						

More on Microsoft

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- Microsoft had accumulated a cash balance of \$ 43 billion by 2002 by paying out no dividends while generating huge FCFE. At the end of 2003, there was no evidence that Microsoft was being penalized for holding such a large cash balance or that stockholders were becoming restive about the cash balance. There was no hue and cry demanding more dividends or stock buybacks. Why?
- In 2004, Microsoft announced a huge special dividend of \$ 33 billion and made clear that it would try to return more cash to stockholders in the future. What do you think changed?

Case 1: Disney in 2003

FCFE versus Dividends

- Between 1994 & 2003, Disney generated \$969 million in FCFE each year.
- Between 1994 & 2003, Disney paid out \$639 million in dividends and stock buybacks each year.
- Cash Balance
 - Disney had a cash balance in excess of \$4 billion at the end of 2003.

Performance measures

- Between 1994 and 2003, Disney has generated a return on equity, on it's projects, about 2% less than the cost of equity, on average each year.
- Between 1994 and 2003, Disney's stock has delivered about 3% less than the cost of equity, on average each year.
- The underperformance has been primarily post 1996 (after the Capital Cities acquisition).

Can you trust Disney's management?

Given Disney's track record between 1994 and 2003, if you were a Disney stockholder, would you be comfortable with Disney's dividend policy?

a. Yes

- b. No
- Does the fact that the company is run by Michael Eisner, the CEO for the last 10 years and the initiator of the Cap Cities acquisition have an effect on your decision.
- a. Yes
- b. No

The Bottom Line on Disney Dividends in 2003

- Disney could have afforded to pay more in dividends during the period of the analysis.
- It chose not to, and used the cash for acquisitions (Capital Cities/ABC) and ill fated expansion plans (Go.com).
- While the company may have flexibility to set its dividend policy a decade ago, its actions over that decade have frittered away this flexibility.
- Bottom line: Large cash balances would not be tolerated in this company. Expect to face relentless pressure to pay out more dividends.

Following up: Disney in 2009

- Between 2004 and 2008, Disney made significant changes:
 - It replaced its CEO, Michael Eisner, with a new CEO, Bob Iger, who at least on the surface seemed to be more receptive to stockholder concerns.
 - Its stock price performance improved (positive Jensen's alpha)
 - Its project choice improved (ROC moved from being well below cost of capital to above)
- The firm also shifted from cash returned < FCFE to cash returned > FCFE and avoided making large acquisitions.
- If you were a stockholder in 2009 and Iger made a plea to retain cash in Disney to pursue investment opportunities, would you be more receptive?
 - a. Yes
 - b. No

Final twist: Disney in 2013

- Disney did return to holding cash between 2008 and 2013, with dividends and buybacks amounting to \$2.6 billion less than the FCFE (with a target debt ratio) over this period.
- Disney continues to earn a return on capital well in excess of the cost of capital and its stock has doubled over the last two years.
- Now, assume that Bob Iger asks you for permission to withhold even more cash to cover future investment needs. Are you likely to go along?
- a. Yes
- b. No

Case 2: Vale – Dividends versus FCFE

	Aggregate	Average
Net Income	\$42,948.00	\$8,589.60
Dividends	\$23,869.00	\$4,773.80
Dividend Payout Ratio	55.58%	87.76%
Stock Buybacks	\$5,731.00	\$1,146.20
Dividends + Buybacks	\$29,600.00	\$5 <i>,</i> 920.00
Cash Payout Ratio	68.92%	
Free CF to Equity (pre-debt)	(\$3,076.00)	(\$615.20)
Free CF to Equity (actual debt)	(\$1,266.00)	(\$253.20)
Free CF to Equity (target debt ratio)	\$13,252.43	\$2,650.49
Cash payout as % of pre-debt FCFE	FCFE negative	
Cash payout as % of actual FCFE	FCFE negative	
Cash payout as % of target FCFE	223.36%	

Aswath Damodaran

Vale: Its your call..

- Vale's managers have asked you for permission to cut dividends (to more manageable levels). Are you likely to go along?
 - a. Yes
 - b. No
- The reasons for Vale's dividend problem lie in it's equity structure. Like most Brazilian companies, Vale has two classes of shares common shares with voting rights and preferred shares without voting rights. However, Vale has committed to paying out 35% of its earnings as dividends to the preferred stockholders. If they fail to meet this threshold, the preferred shares get voting rights. If you own the preferred shares, would your answer to the question above change?
 - a. Yes
 - b. No

Mandated Dividend Payouts

- Assume now that the government decides to mandate a minimum dividend payout for all companies. Given our discussion of FCFE, what types of companies will be hurt the most by such a mandate?
- a. Large companies making huge profits
- b. Small companies losing money
- c. High growth companies that are losing money
- d. High growth companies that are making money
- What if the government mandates a cap on the dividend payout ratio (and a requirement that all companies reinvest a portion of their profits)?

Case 3: BP: Summary of Dividend Policy: 1982-1991

	Summary of calculations				
	Average	Standard Deviation	Maximum	Minimum	
Free CF to Equity	\$571.10	\$1,382.29	\$3,764.00	(\$612.50)	
Dividends	\$1,496.30	\$448.77	\$2,112.00	\$831.00	
Dividends+Repurchases	\$1,496.30	\$448.77	\$2,112.00	\$831.00	
Dividend Payout Ratio	84.77%				
Cash Paid as % of FCFE	262.00%				
ROE - Required return	-1.67%	11.49%	20.90%	-21.59%	

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BP: Just Desserts!

B.P.'s Shares Plummet After Dividend Is Slashed

By MATTHEW L. WALD

British Petroleum said yesterday that it would cut its dividend by 55 percent, take a pretax restructuring charge of \$1.82 billion for the second quarter and lay off 11,500 employees, or 10 percent of its worldwide work force. The moves came five weeks after Robert B. Horton, B.P.'s chairman, resigned under pressure from the company's outside directors.

Analysts anticipated a dividend cut by the oil company, the world's third largest, but the one announced was at the low end of their expectations. In response, shares of the company's American depository rights, each of which represents 12 shares of the \$3.625, or 7.36 percent, to \$45.375. It was the most active issue on the New York Stock Exchange, with 5.89 million shares traded.

The Royal Dutch/Shell group also reported a disappointing quarter yesterday, with earnings on a replacement cost basis — excluding gains or losses on inventory holdings — of \$868 million, down 22 percent.

Quick Recovery Seems Unlikely

Adding to the gloom at B.P., the new chief executive, David A. G. Simon, said the prospects for a quick recovery were poor. "External trad-ing conditions are expected to remain difficult, particularly for the down-stream oil and chemicals businesses, with growth prospects for the world's economies remaining uncertain," he said in a statement. Downstream oil is an industry term for refining and marketing operations, as distinct, from oil production.

Downstream margins in the United States would be hurt later this year, he predicted, when clean air rules.

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take effect and gasoline must be re-formulated to reduce pollution. "In Europe, recovery will dezend upon seasonal heating oil de " nd," Mr. Simon said.

The crude oil market, he predicted, would remain balanced unless Iraqi oil was allowed to re-enter the market. The compary said it was well positioned to tr e advantage of any

The giant British oil company bet on rising oil prices.

increase in oil prices, but the company's oil production in the United States is declining. B.P. is the largest producer in Alaska.

The market for petrochemicals in Europe remains weak.

B.P.'s second quarter profits, before one-time transactions, declined to \$193 million from \$515 million, valuing inventories on a replace-ment-cost basis. James J. Murchie, an analyst at Stanford C. Bernstein, estimated that after exceptional items, earnings per share fell to 30 cents in the second quarter, compared with 62 cents a year earlier. Analysts attributed B.P.'s prob-

lems to the company's acquisitions in the last few years, and heavy capital expenditures. Summing up the com-pany's recent history, Frank P. Kneuttel of Prudential Securities Repense rose, and profits have gone to hell."

Mr. Murchle, who worked for Standard Oil of Ohio and then B.P.



after B.P. acquired Sohlo, said, "What you've got is a company that thought oil prices were going to go to \$25 and spent like it, in terms of capital." If B.P.'s costs of finding oil are the same as the industry average, he said, then the company has been spending enough to replace 120 percent to 130 percent of its annual production, which is not a successful strategy if prices do not rise.

In addition, he said, the company had been spending twice as much on its refining and marketing operation 1.

1. 1.101 - 1930 B. A. H. T. as it was recording in depreciation. Another analyst at a large stock brokerage house, who spoke on the condition of anonymity, (said, "They took all the old Sohlo stations and turned them into modern B.P. sta-tions; they took all the B.P. stations and turned them into ultramodern .*

and turned them stations." The analyst said that while some of the cuts were: obvious "some came i the cuts were: obvious "some came i continued on Page D2, ...

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Aswath Damodaran

Managing changes in dividend policy

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Periods Around Announcement Date							
Category	Prior Quarter	Announcement Period	Quarter After				
Simultaneous announcement of earnings decline/loss ($N =$ 176)	-7.23%	-8.17%	+1.80%				
Prior announcement of earnings decline or loss ($N = 208$)	-7.58%	-5.52%	+1.07%				
Simultaneous announcement of investment or growth opportunities ($N =$ 16)	-7.69%	-5.16%	+8.79%				

Case 4: The Limited: Summary of Dividend Policy: 1983-1992

	Summary of calculations					
	Average	Standard Deviation	Maximum	Minimum		
Free CF to Equity	(\$34.20)	\$109.74	\$96.89	(\$242.17)		
Dividends	\$40.87	\$32.79	\$101.36	\$5.97		
Dividends+Repurchases	\$40.87	\$32.79	\$101.36	\$5.97		
Dividend Payout Ratio	18.59%					
Cash Paid as % of FCFE	-119.52%					
ROE - Required return	1.69%	19.07%	29.26%	-19.84%		

Growth Firms and Dividends

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- High growth firms are sometimes advised to initiate dividends because its increases the potential stockholder base for the company (since there are some investors - like pension funds - that cannot buy stocks that do not pay dividends) and, by extension, the stock price. Do you agree with this argument?
- a. Yes
- b. No
- □ Why?

5. Tata Motors

	Aggregate	Average
Net Income	\$421,338.00	\$42,133.80
Dividends	\$74,214.00	\$7,421.40
Dividend Payout Ratio	17.61%	15.09%
Stock Buybacks	\$970.00	\$97.00
Dividends + Buybacks	\$75,184.00	\$7,518.40
Cash Payout Ratio	17.84%	
Free CF to Equity (pre-debt)	(\$106,871.00)	(\$10,687.10)
Free CF to Equity (actual debt)	\$825,262.00	\$82,526.20
Free CF to Equity (target debt ratio)	\$47,796.36	\$4,779.64
Cash payout as % of pre-debt FCFE	FCFE negative	
Cash payout as % of actual FCFE	9.11%	
Cash payout as % of target FCFE	157.30%	

Negative FCFE, largely because of acquisitions.

Summing up...

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	<i>Quality of projects taker</i> Poor projects	n: ROE versus Cost of Equity Good projects
<i>ut relative to FCFE</i> Cash Surplus	<i>Cash Surplus + Poor</i> <i>Projects</i> Significant pressure to pay out more to stockholders as dividends or stock buybacks	Baidu Cash Surplus + Good Projects Maximum flexibility in setting dividend policy
Dividends paid ou Cash Deficit	Deutsche Bank Cash Deficit + Poor Projects Cut out dividends but real problem is in investment policy.	Disney <i>Cash Deficit + Good</i> <i>Projects</i> Reduce cash payout, if any, to stockholders Vale Tata Mtrs

Aswath Damodaran

- Application Test: Assessing your firm's dividend policy
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- Compare your firm's dividends to its FCFE, looking at the last 5 years of information.

- Based upon your earlier analysis of your firm's project choices, would you encourage the firm to return more cash or less cash to its owners?
- If you would encourage it to return more cash, what form should it take (dividends versus stock buybacks)?

II. The Peer Group Approach

In the peer group approach, you compare your company to similar companies (usually in the same market and sector) to assess whether and if yes, how much to pay in dividends.

	D	ividend Yield	Dividend Payout				
Company	2013	Average 2008-12	2013	Average 2008-12	Comparable Group	Dividend Yield	Dividend Payout
Disney	1.09%	1.17%	21.58%	17.11%	US Entertainment	0.96%	22.51%
					Global Diversified		
					Mining & Iron Ore		
Vale	6.56%	4.01%	113.45%	37.69%	(Market cap> \$1 b)	3.07%	316.32%
					Global Autos (Market		
Tata Motors	1.31%	1.82%	16.09%	15.53%	Cap> \$1 b)	2.13%	27.00%
					Global Online		
Baidu	0.00%	0.00%	0.00%	0.00%	Advertising	0.09%	8.66%
Deutsche Bank	1.96%	3.14%	362.63%	37.39%	European Banks	1.96%	79.32%

A closer look at Disney's peer group

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	Market	D: . 1 1	Dividends +	Net	FOFF	Dividend	Dividend	Cash
Company	Cap	Dividends	Buybacks	Income	FCFE	Yield	Payout	Return/FCFE
The Walt Disney Company	\$134,256	\$1,324	\$5,411	\$6,136	\$1,503	0.99%	21.58%	360.01%
Twenty-First Century Fox, Inc.	\$79,796	\$415	\$2,477	\$7,097	\$2,408	0.52%	6.78%	102.87%
Time Warner Inc	\$63,077	\$1,060	\$4,939	\$3,019	-\$4,729	1.68%	27.08%	NA
Viacom, Inc.	\$38,974	\$555	\$5,219	\$2,395	-\$2,219	1.42%	23.17%	NA
The Madison Square Garden Co.	\$4,426	\$0	\$0	\$142	-\$119	0.00%	0.00%	NA
Lions Gate Entertainment Corp	\$4,367	\$0	\$0	\$232	-\$697	0.00%	0.00%	NA
Live Nation Entertainment, Inc	\$3,894	\$0	\$0	-\$163	\$288	0.00%	NA	0.00%
Cinemark Holdings Inc	\$3,844	\$101	\$101	\$169	-\$180	2.64%	63.04%	NA
MGM Holdings Inc	\$3,673	\$0	\$59	\$129	\$536	0.00%	0.00%	11.00%
Regal Entertainment Group	\$3,013	\$132	\$132	\$145	-\$18	4.39%	77.31%	NA
DreamWorks Animation SKG Inc.	\$2,975	\$0	\$34	-\$36	-\$572	0.00%	NA	NA
AMC Entertainment Holdings	\$2,001	\$0	\$0	\$63	-\$52	0.00%	0.00%	NA
World Wrestling Entertainment	\$1,245	\$36	\$36	\$31	-\$27	2.88%	317.70%	NA
SFX Entertainment Inc.	\$1,047	\$0	\$0	-\$16	-\$137	0.00%	NA	NA
Carmike Cinemas Inc.	\$642	\$0	\$0	\$96	\$64	0.00%	0.00%	0.27%
Rentrak Corporation	\$454	\$0	\$0	-\$23	-\$13	0.00%	NA	NA
Reading International, Inc.	\$177	\$0	\$0	-\$1	\$15	0.00%	0.00%	0.00%
Average	\$20,462	\$213	\$1,083	\$1,142	-\$232	0.85%	41.28%	79.02%
Median	\$3,673	\$0	\$34	\$129	-\$27	0.00%	6.78%	5.63%

Going beyond averages... Looking at the market

 Regressing dividend yield and payout against expected growth across all US companies in January 2014 yields:

PYT = 0.649 - 0.296 (BETA)-.800 (EGR)+.300 (DCAP) $R^2 = 19.6\%$ (32.16)(15.40)(8.90)(7.33)YLD = 0.0324-.0154 (BETA)-.038 (EGR)+.023 (DCAP) $R^2 = 25.8\%$ (38.81)(19.41)(13.25)(13.45)

PYT = Dividend Payout Ratio = Dividends/Net Income
YLD = Dividend Yield = Dividends/Current Price
BETA = Beta (Regression or Bottom up) for company
EGR = Expected growth rate in earnings over next 5 years (analyst estimates)
DCAP = Total Debt / (Total Debt + Market Value of equity)

Using the market regression on Disney

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- To illustrate the applicability of the market regression in analyzing the dividend policy of Disney, we estimate the values of the independent variables in the regressions for the firm.
 - Beta for Disney (bottom up) = 1.00
 - Disney's expected growth in earnings per share = 14.73% (analyst estimate)
 - Disney's market debt to capital ratio = 11.58%
- Substituting into the regression equations for the dividend payout ratio and dividend yield, we estimate a predicted payout ratio:

■ Predicted Payout = .649 – 0.296 (1.00)-.800 (.1473) + .300 (.1158) = .2695

□ Predicted Yield = 0.0324 - .0154 (1.00)-.038 (.1473) + .023 (.1158) = .0140

 Based on this analysis, Disney with its dividend yield of 1.09% and a payout ratio of approximately 21.58% is paying too little in dividends. This analysis, however, fails to factor in the huge stock buybacks made by Disney over the last few years.