

# Dividend Policy and Clientele

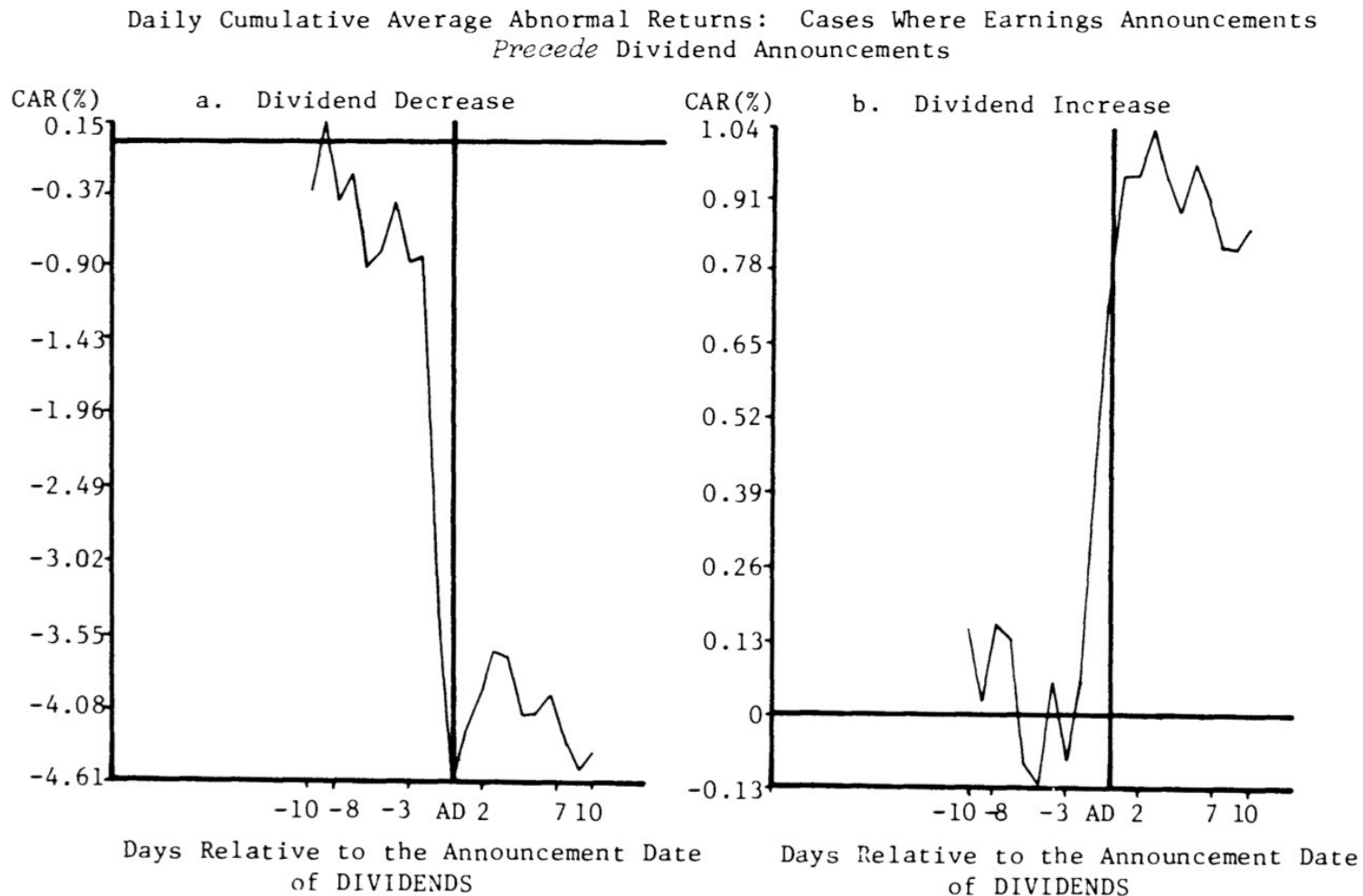
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- Assume that you run a phone company, and that you have historically paid large dividends. You are now planning to enter the telecommunications and media markets. Which of the following paths are you most likely to follow?
  - a. Courageously announce to your stockholders that you plan to cut dividends and invest in the new markets.
  - b. Continue to pay the dividends that you used to and defer investment in the new markets.
  - c. Continue to pay the dividends that you used to, make the investments in the new markets, and issue new stock to cover the shortfall
  - d. Other

## 2. Dividends send a “signal”

Increases in dividends are good news..

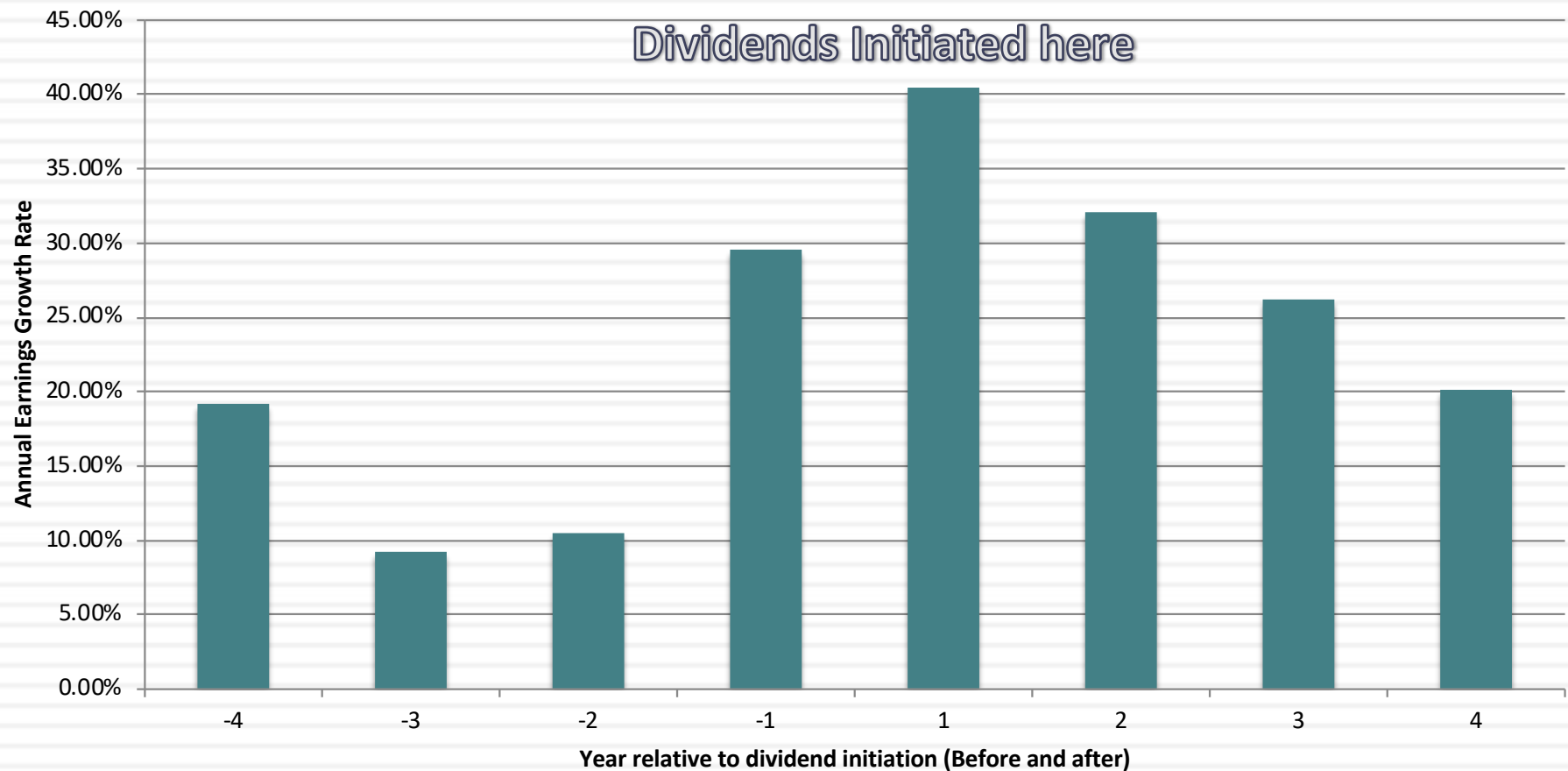
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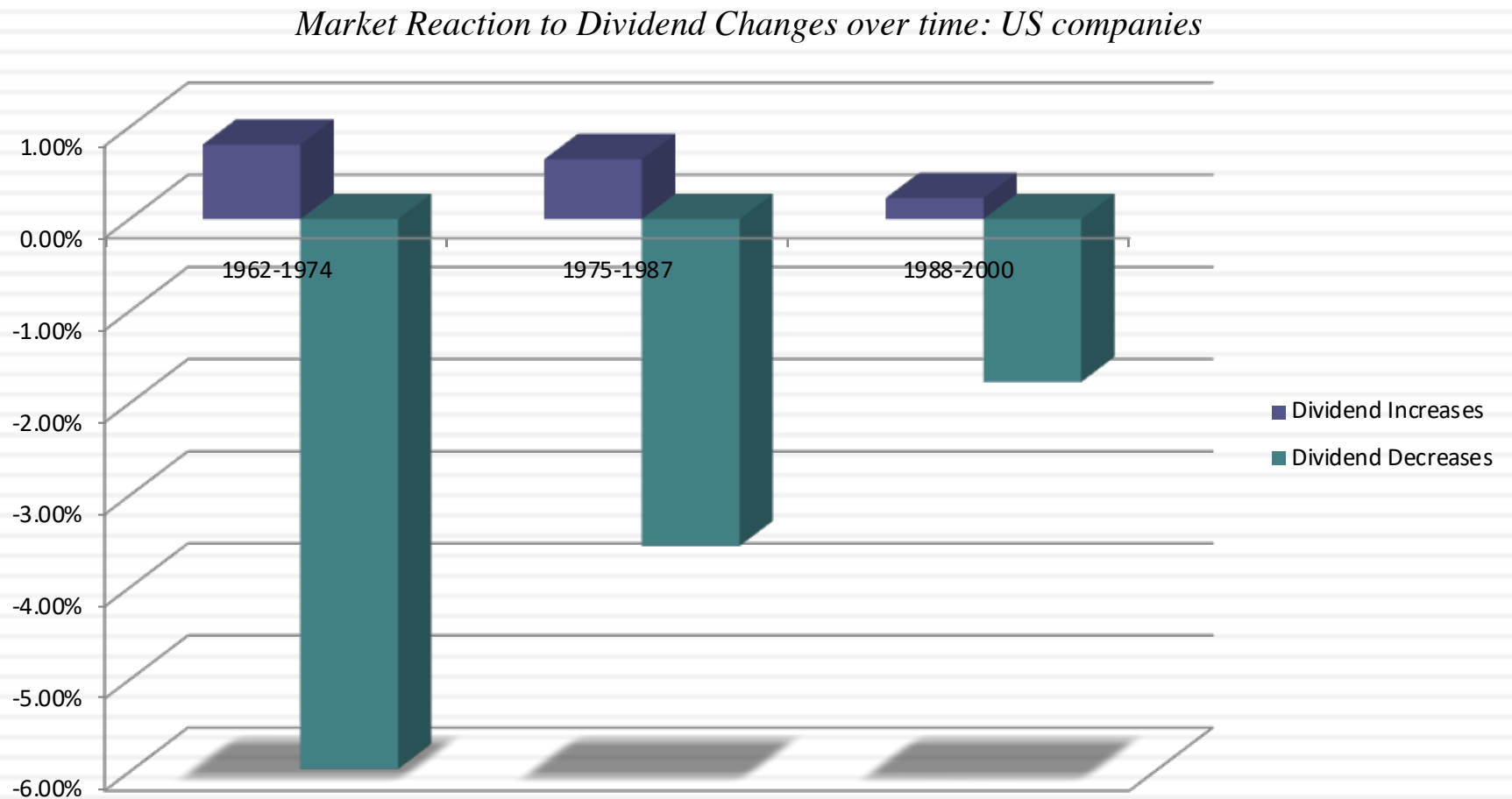
# But higher or new dividends may signal bad news (not good)

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## Dividend Initiations and Earnings Growth

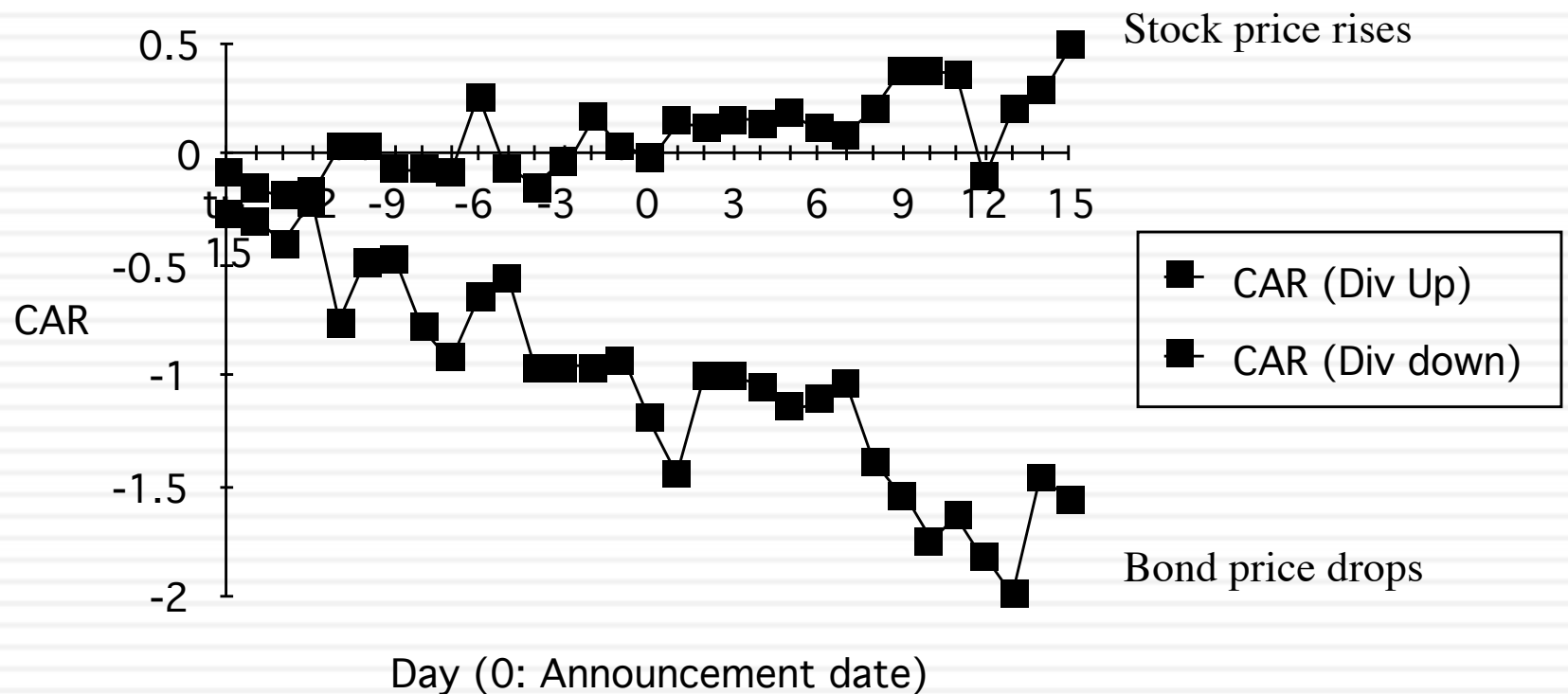


# Both dividend increases and decreases are becoming less informative...



### 3. Dividend increases may be good for stocks... but bad for bonds..

*EXCESS RETURNS ON STOCKS AND BONDS AROUND DIVIDEND CHANGES*



# What managers believe about dividends...

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<i>Statement of Management Beliefs</i>	<i>Agree</i>	<i>No Opinion</i>	<i>Disagree</i>
1. A firm's dividend payout ratio affects the price of the stock.	61%	33%	6%
2. Dividend payments provide a signaling device of future prospects.	52%	41%	7%
3. The market uses dividend announcements as information for assessing firm value.	43%	51%	6%
4. Investors have different perceptions of the relative riskiness of dividends and retained earnings.	56%	42%	2%
5. Investors are basically indifferent with regard to returns from dividends and capital gains.	6%	30%	64%
6. A stockholder is attracted to firms that have dividend policies appropriate to the stockholder's tax environment.	44%	49%	7%
7. Management should be responsive to shareholders' preferences regarding dividends.	41%	49%	10%

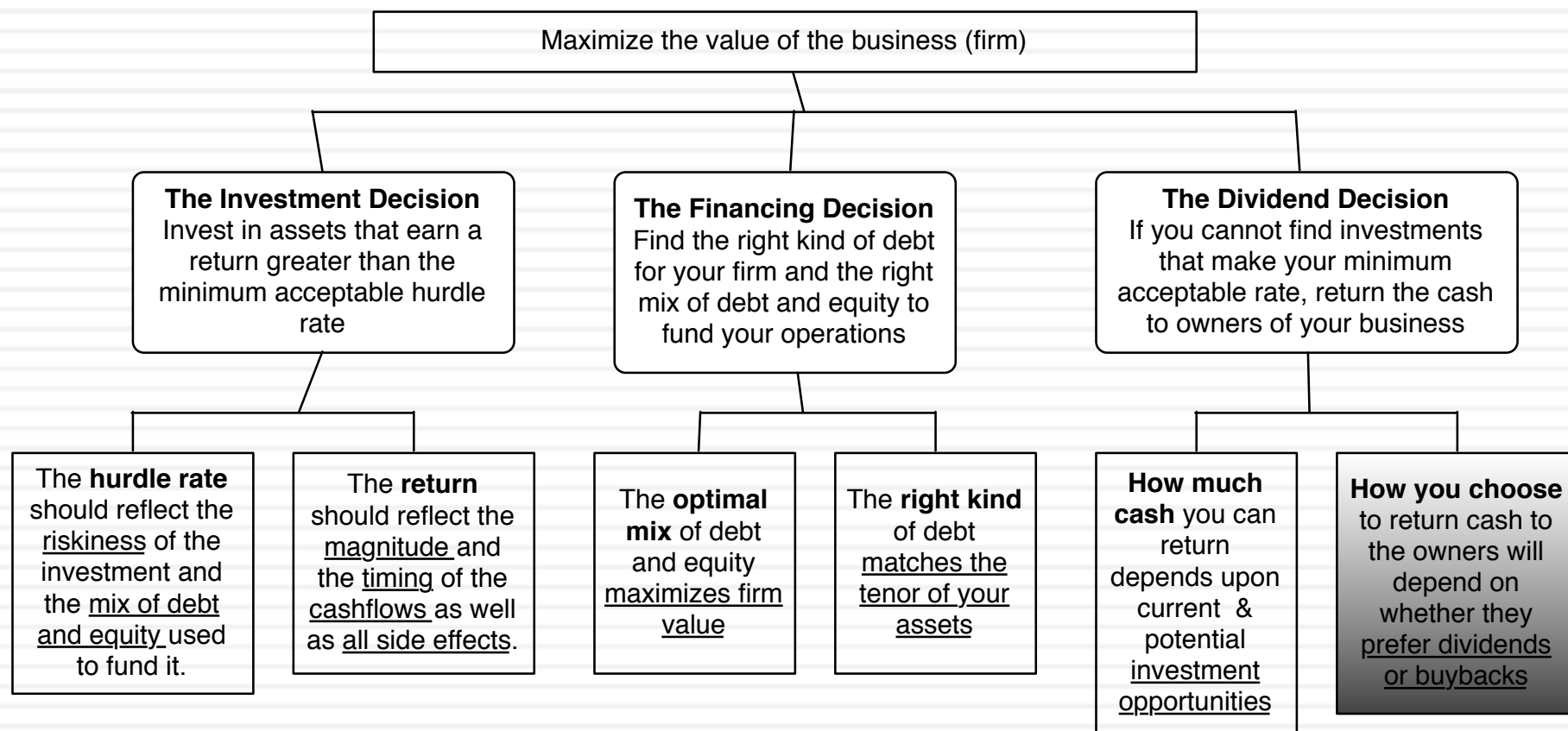


## ASSESSING DIVIDEND POLICY: OR HOW MUCH CASH IS TOO MUCH?

It is my cash and I want it now...

# The Big Picture...

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# Assessing Dividend Policy

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- Approach 1: The Cash/Trust Nexus
  - ▣ Assess how much cash a firm has available to pay in dividends, relative what it returns to stockholders. Evaluate whether you can trust the managers of the company as custodians of your cash.
- Approach 2: Peer Group Analysis
  - ▣ Pick a dividend policy for your company that makes it comparable to other firms in its peer group.

# I. The Cash/Trust Assessment

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Step 1: How much did the the company actually pay out during the period in question?

Step 2: How much could the company have paid out during the period under question?

Step 3: How much do I trust the management of this company with excess cash?

- ▣ How well did they make investments during the period in question?
- ▣ How well has my stock performed during the period in question?

# How much has the company returned to stockholders?

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- As firms increasingly use stock buybacks, we have to measure cash returned to stockholders as not only dividends but also buybacks.
- For instance, for the five companies we are analyzing the cash returned looked as follows.

	<i>Disney</i>		<i>Vale</i>		<i>Tata Motors</i>		<i>Baidu</i>		<i>Deutsche Bank</i>	
Year	Dividends	Buybacks	Dividends	Buybacks	Dividends	Buybacks	Dividends	Buybacks	Dividends	Buybacks
2008	\$648	\$648	\$2,993	\$741	7,595₹	0₹	¥0	¥0	2,274 €	0 €
2009	\$653	\$2,669	\$2,771	\$9	3,496₹	0₹	¥0	¥0	309 €	0 €
2010	\$756	\$4,993	\$3,037	\$1,930	10,195₹	0₹	¥0	¥0	465 €	0 €
2011	\$1,076	\$3,015	\$9,062	\$3,051	15,031₹	0₹	¥0	¥0	691 €	0 €
2012	\$1,324	\$4,087	\$6,006	\$0	15,088₹	970₹	¥0	¥0	689 €	0 €
<b>2008-12</b>	<b>\$4,457</b>	<b>\$15,412</b>	<b>\$23,869</b>	<b>\$5,731</b>	<b>51,405₹</b>	<b>970₹</b>	<b>¥0</b>	<b>¥0</b>	<b>¥4,428</b>	<b>¥0</b>

# A Measure of How Much a Company Could have Afforded to Pay out: FCFE

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- The Free Cashflow to Equity (FCFE) is a measure of how much cash is left in the business after non-equity claimholders (debt and preferred stock) have been paid, and after any reinvestment needed to sustain the firm's assets and future growth.

Standard Definition	Modified Version	Simplified (if debt ratio = constant)
Net Income	Net Income	Net Income
+ Depreciation	<b>Reinvestment</b>  - (Cap Ex - Depreciation + Change in Working Capital)	<b>Reinvestment from Equity</b>  - (Cap Ex - Depreciation + Change in Working Capital) (1 - Debt Ratio)
- Cap Ex		
- Change in WC		
<i><b>FCFE before debt cash flow</b></i>	<i><b>FCFE before debt cash flow</b></i>	
+ New Debt Issued	<b>Net CF from Debt</b>  + (New Debt Issued - Debt Repaid)	
- Debt Repaid		
<i><b>FCFE</b></i>	<i><b>FCFE</b></i>	<i><b>FCFE</b></i>

# Estimating FCFE when Leverage is Stable

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- The cash flow from debt (debt issue, netted out against repayment) can be a volatile number, creating big increases or decreases in FCFE, depending upon the period examined.
- To provide a more balanced measure, you can estimate a FCFE, assuming a stable debt ratio had been used to fund reinvestment over the period.

Net Income

- (1- Debt Ratio) (Capital Expenditures - Depreciation)

- (1- Debt Ratio) Working Capital Needs

= Free Cash flow to Equity

Debt Ratio = Debt/Capital Ratio (either an actual or a target)

# Disney's FCFE and Cash Returned: 2008 – 2012

	2012	2011	2010	2009	2008	Aggregate
Net Income	\$6,136	\$5,682	\$4,807	\$3,963	\$3,307	\$23,895
- (Cap. Exp - Depr)	\$604	\$1,797	\$1,718	\$397	\$122	\$4,638
- $\Delta$ Working Capital	(\$133)	\$940	\$950	\$308	(\$109)	\$1,956
Free CF to Equity (pre-debt)	\$5,665	\$2,945	\$2,139	\$3,258	\$3,294	\$17,301
+ Net CF from Debt	\$1,881	\$4,246	\$2,743	\$1,190	(\$235)	\$9,825
= Free CF to Equity (actual debt)	\$7,546	\$7,191	\$4,882	\$4,448	\$3,059	\$27,126
Free CF to Equity (target debt ratio)	\$5,720	\$3,262	\$2,448	\$3,340	\$3,296	\$18,065
Dividends	\$1,324	\$1,076	\$756	\$653	\$648	\$4,457
Dividends + Buybacks	\$5,411	\$4,091	\$5,749	\$3,322	\$1,296	\$19,869

Disney returned about \$1.5 billion more than the \$18.1 billion it had available as FCFE with a normalized debt ratio of 11.58% (its current debt ratio).

# How companies get big cash balances: Microsoft in 1996...

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- Consider the following inputs for Microsoft in 1996.
  - ▣ Net Income = \$2,176 Million
  - ▣ Capital Expenditures = \$494 Million
  - ▣ Depreciation = \$ 480 Million
  - ▣ Change in Non-Cash Working Capital = \$ 35 Million
  - ▣ Debt = None

$$\begin{aligned}\text{FCFE} &= \text{Net Income} - (\text{Cap ex} - \text{Depr}) - \text{Change in non-cash WC} - \text{Debt CF} \\ &= \$ 2,176 - (494 - 480) - \$ 35 - 0 = \$ 2,127 \text{ Million}\end{aligned}$$

- By this estimation, Microsoft could have paid \$ 2,127 Million in dividends/stock buybacks in 1996. They paid no dividends and bought back no stock. Where will the \$2,127 million show up in Microsoft's balance sheet?

# FCFE for a Bank?

- We redefine reinvestment as investment in regulatory capital.

$$FCFE_{\text{Bank}} = \text{Net Income} - \text{Increase in Regulatory Capital (Book Equity)}$$

- Consider a bank with \$ 10 billion in loans outstanding and book equity of \$ 750 million. If it maintains its capital ratio of 7.5%, intends to grow its loan base by 10% (to \$11 and expects to generate \$ 150 million in net income:

$$FCFE = \$150 \text{ million} - (11,000 - 10,000) * (.075) = \$75 \text{ million}$$

*Deutsche Bank: FCFE estimates (November 2013)*

	Current	1	2	3	4	5
Risk Adjusted Assets (grows 3% each year)	439,851 €	453,047 €	466,638 €	480,637 €	495,056 €	509,908 €
Tier 1 as % of Risk Adj assets	15.13%	15.71%	16.28%	16.85%	17.43%	18.00%
Tier 1 Capital	66,561 €	71,156 €	75,967 €	81,002 €	86,271 €	91,783 €
Change in regulatory capital		4,595 €	4,811 €	5,035 €	5,269 €	5,512 €
Book Equity	76,829 €	81,424 €	86,235 €	91,270 €	96,539 €	102,051 €
ROE (increases to 8%)	-1.08%	0.74%	2.55%	4.37%	6.18%	8.00%
Net Income	-716 €	602 €	2,203 €	3,988 €	5,971 €	8,164 €
- Investment in Regulatory Capital		4,595 €	4,811 €	5,035 €	5,269 €	5,512 €
FCFE		-3,993 €	-2,608 €	-1,047 €	702 €	2,652 €



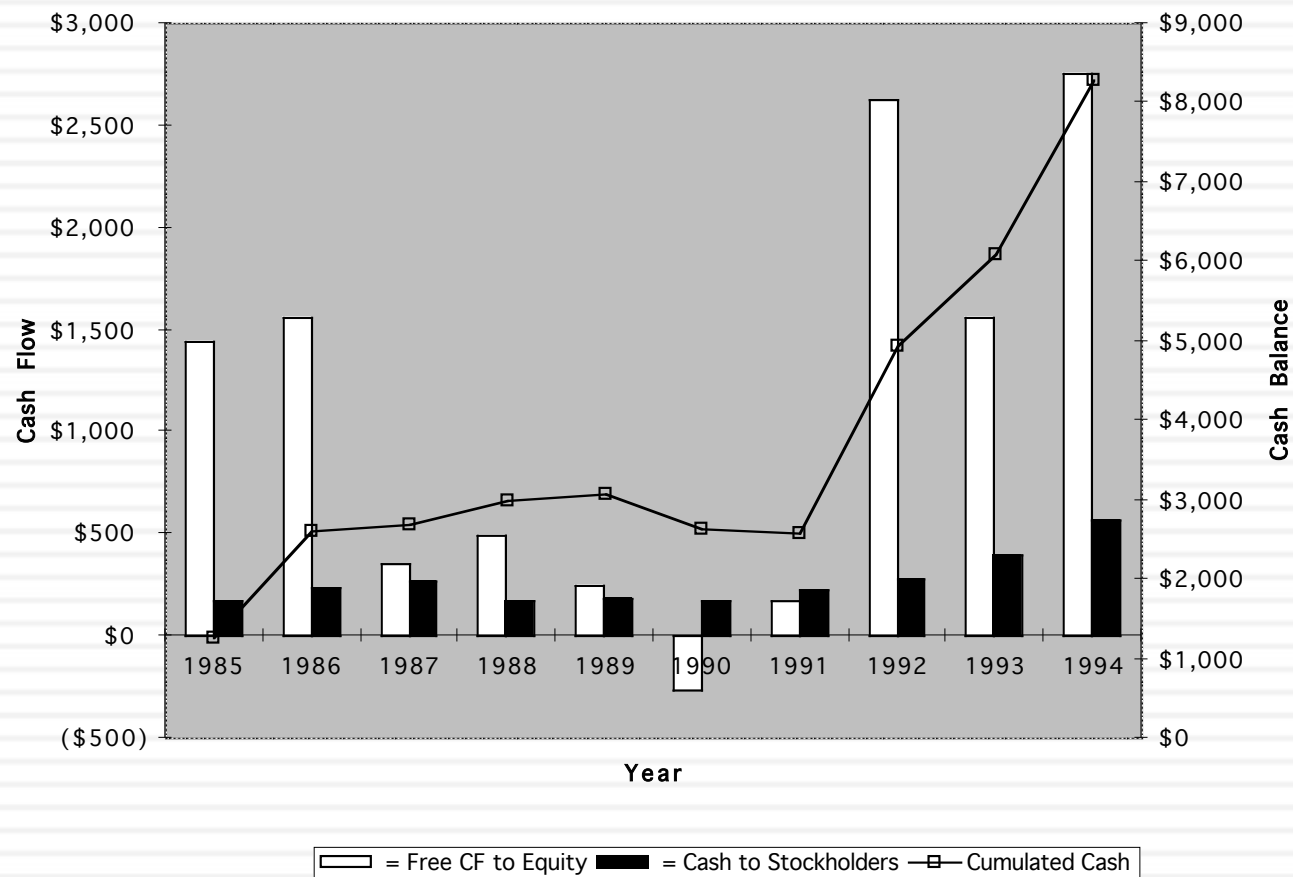
# Dividends versus FCFE: Across the globe

	Positive FCFE, No cash returned	Cash returned, FCFE > Dividends + Buybacks	Total Cash Accumulators	FCFE<0, No Cash Return	Cash returned, FCFE <Dividends + Buybacks	FCFE Negative, Cash Returned	Cash Burners
Australia, NZ and Canada	9.45%	9.19%	18.63%	67.71%	3.92%	9.74%	81.37%
Developed Europe	18.01%	22.12%	40.13%	33.30%	7.46%	19.10%	59.87%
Emerging Markets	14.66%	24.29%	38.96%	24.62%	8.25%	28.18%	61.04%
Japan	13.93%	36.89%	50.81%	13.59%	7.61%	27.98%	49.19%
United States	10.88%	18.47%	29.35%	35.11%	8.10%	27.44%	70.65%
Global	14.06%	22.77%	36.82%	30.75%	7.61%	24.82%	63.18%

# Cash Buildup and Investor Blowback: Chrysler in 1994

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Chrysler: FCFE, Dividends and Cash Balance



# Application Test: Estimating your firm's FCFE

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□ In General,  
Net Income  
+ Depreciation & Amortization  
- Capital Expenditures  
- Change in Non-Cash Working Capital  
- Preferred Dividend  
- Principal Repaid  
+ New Debt Issued  
  
= FCFE

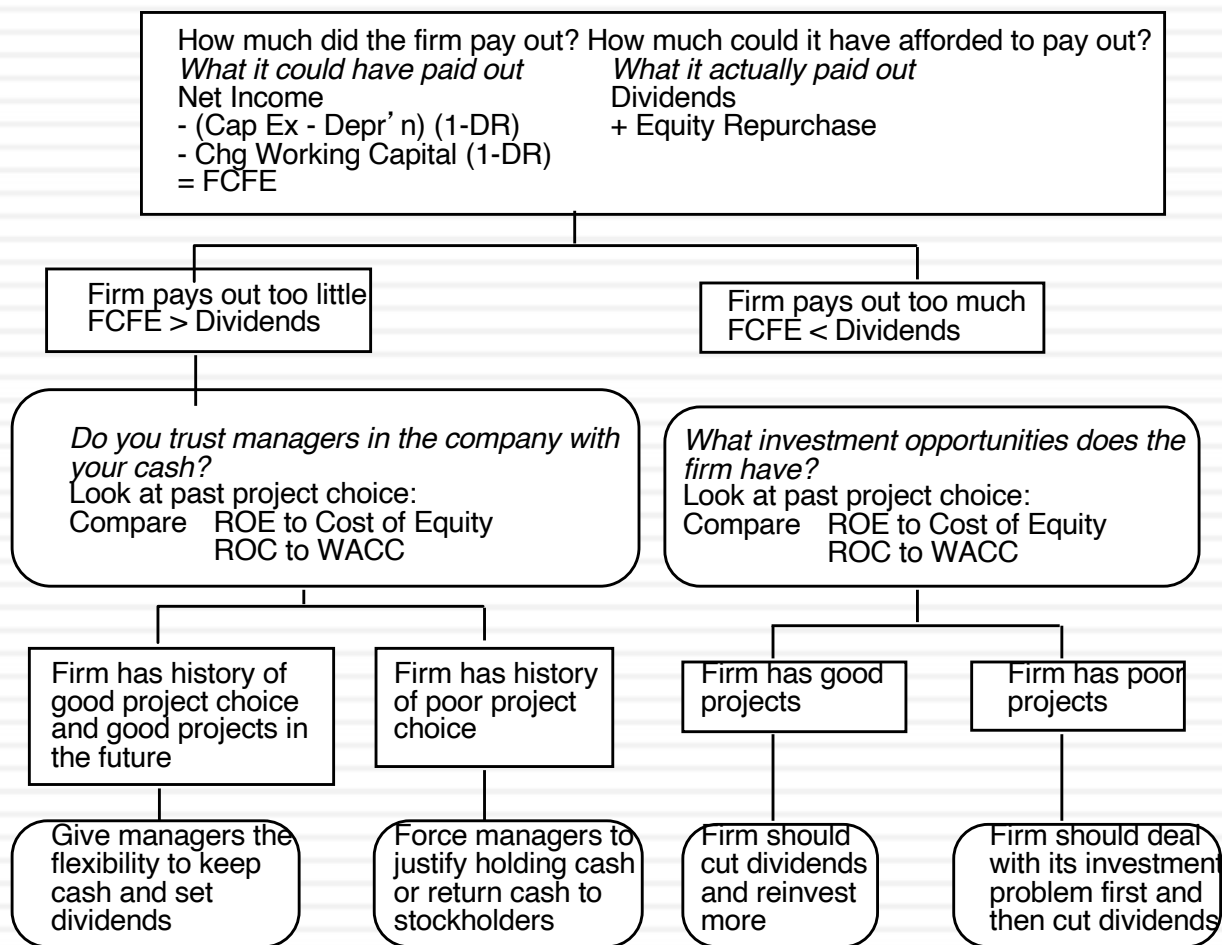
□ Compare to  
Dividends (Common)  
+ Stock Buybacks

If cash flow statement used  
Net Income  
+ Depreciation & Amortization  
+ Capital Expenditures  
+ Changes in Non-cash WC  
+ Preferred Dividend  
+ Increase in LT Borrowing  
+ Decrease in LT Borrowing  
+ Change in ST Borrowing  
  
= FCFE

Common Dividend  
Stock Buybacks

# A Practical Framework for Analyzing Dividend Policy

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# A Dividend Matrix

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