Acquirers Anonymous: Seven Steps to Business Sobriety...

Acquisitions are great for target companies but not always for acquiring company stockholders...

Cumulative Returns: Target and Bidder firms in Public Acquisitions 25.00% 20.00% 15.00% Return Very slight drift in stock price after announcement mal 10.00% Target Cumulative Bidder 5.00% The stock price drifts The acquistion is announced at this point in up before the news time. hits the market 0.00%÷ ÷ $\frac{1}{4}$ $\frac{1}{42}$ ġ. -5.00%

Date around acquisition announcement (day 0)

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2

And the long-term follow up is not positive either..

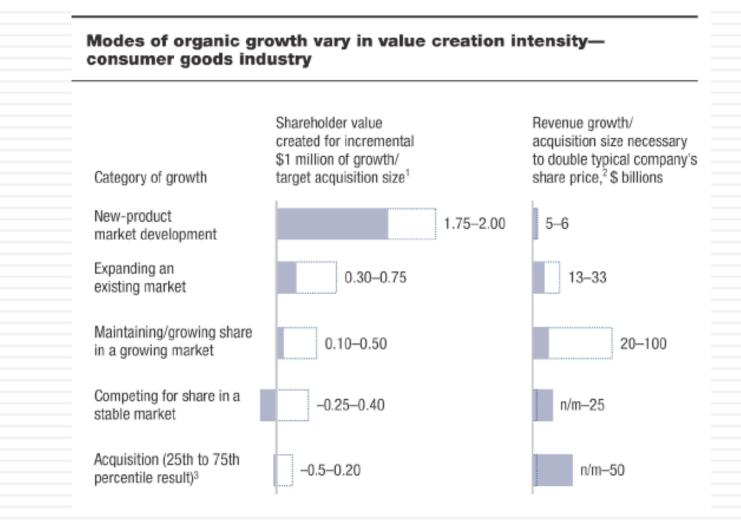
Managers often argue that the market is unable to see the long term benefits of mergers that they can see at the time of the deal. If they are right, mergers should create long term benefits to acquiring firms.

The evidence does not support this hypothesis:

- 1. McKinsey and Co. has examined acquisition programs at companies on whether acquirers earn more than the cost of capital and whether they outperform their peers and find most wanting.
- 2. Synergy is elusive. KPMG in a study of global acquisitions concludes that most mergers (>80%) fail the merged companies do worse than their peer group.
- 3. A large number of acquisitions that are reversed within fairly short time periods. About 20% of the acquisitions made between 1982 and 1986 were divested by 1988. In studies that have tracked acquisitions for longer time periods (ten years or more) the divestiture rate of acquisitions rises to almost 50%.

Payoff on Growth Strategies

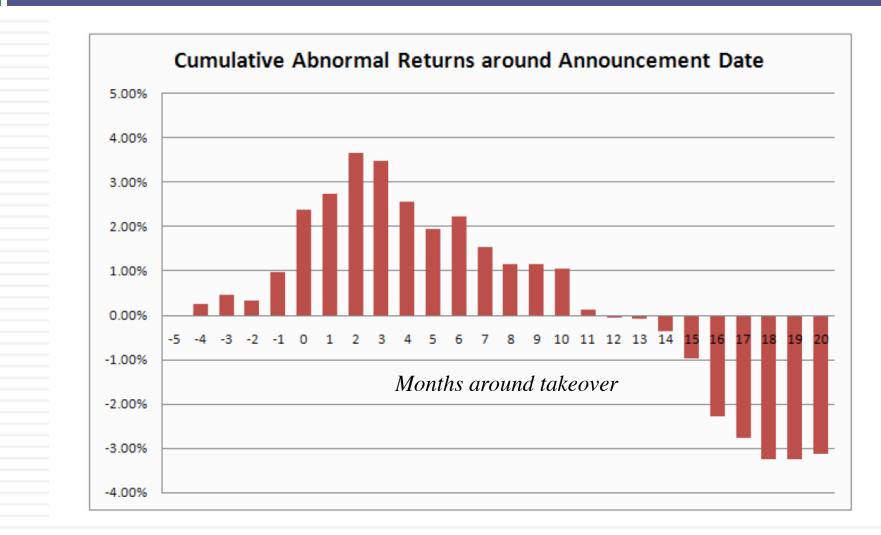
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4

The disease is spreading... Indian firms acquiring US targets – 1999 - 2005

5



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5

Growing through acquisitions seems to be a "loser's game"

- 6
- Firms that grow through acquisitions have generally had far more trouble creating value than firms that grow through internal investments.
- In general, acquiring firms tend to
 - Pay too much for target firms
 - Over estimate the value of "synergy" and "control"
 - Have a difficult time delivering the promised benefits
- Worse still, there seems to be very little learning built into the process. The same mistakes are made over and over again, often by the same firms with the same advisors.
- Conclusion: There is something structurally wrong with the process for acquisitions which is feeding into the mistakes.



The seven sins in acquisitions...

- 8
- 1. <u>Risk Transference</u>: Attributing acquiring company risk characteristics to the target firm.
- 2. <u>Debt subsidies</u>: Subsiding target firm stockholders for the strengths of the acquiring firm.
- 3. <u>Auto-pilot Control</u>: The "20% control premium" and other myths...
- 4. <u>Elusive Synergy</u>: Misidentifying and mis-valuing synergy.
- 5. <u>Its all relative</u>: Transaction multiples, exit multiples...
- 6. <u>Verdict first, trial afterwards</u>: Deal first, valuation to follow
- 7. <u>Not my fault:</u> Holding no one responsible for delivering results.

Lets start with a target firm

The target firm	has the following income stateme	nt:
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	Next Year
Revenues	\$ 100.00
Operating Expenses (includes	
depreciation of \$20 million)	\$ 80.00
Pre-tax Operating Income	\$ 20.00
Taxes	\$ 8.00
After-tax Operating Income	\$ 12.00

Assume that this firm will generate this operating income forever (with no growth) and that the cost of equity for this firm is 20%. The firm has no debt outstanding. What is the value of this firm?



Risk Transference...

- 11
- Assume that as an acquiring firm, you are in a much safer business and have a cost of equity of 10%.
 What is the value of the target firm to you?

11

- a) \$60 million
- b) \$90 million
- c) \$120 million
- d) Other

Lesson 1: Don't transfer your risk characteristics to the target firm

- Let's start with a basic capital budgeting principle, which is often ignored: The discount rate used for an investment should reflect the risk of the investment and not the risk characteristics of the investor who raised the funds.
 - Risky businesses cannot become safe just because the buyer of these businesses is in a safe business.
 - The right cost of equity to use in valuation is the one that reflects the risk in equity in the target firm.

If you fail this test..

- 13
- <u>Risky firms will look cheap to you</u>: If you use your (acquirer's) cost of equity and capital in valuing a target firm, you will find that risky firms look under valued.
- You will pay too much for these risky firms: It follows then that you will pay a premium over what you should pay (even though it looks like a bargain relative to your assessed value.
- You will become a risky (and bad) firm: Over time, you (the acquiring firm) will become not just a much riskier firm, but one that has been built up through over investing in risky projects.



Cheap debt + Debt Capacity

- 15
- Assume as an acquirer that you have both excess debt capacity (because you have not chosen to borrow as much as you could have, given your assets) and access to cheap debt.
- You plan to borrow money at 4% (in after-tax terms) and that you plan to fund half the acquisition with debt. How much would you be willing to pay for the target firm?

Lesson 2: Render unto the target firm owners that which is theirs, not a penny more..

- As an acquiring firm, it is entirely possible that you can borrow much more than the target firm can on its own and at a much lower rate.
- If you build these characteristics into the valuation of the target firm, you are essentially transferring wealth from your firm's stockholder to the target firm's stockholders.
- When valuing a target firm, use a cost of capital that reflects the debt capacity and the cost of debt that would apply to the firm.

If you fail this test...

- You will subsidize target firms: If you use your (acquirer's) cost of debt and debt capacity to compute a cost of capital to value a target firm, you will be subsidizing the target firm shareholders for something (your debt capacity + low cost of debt) that they had no role in creating. That is investing malpractice.
- The subsidy gets worse, if you are not adjusting your cost of debt for the higher debt that you will have, post-acquisition, and the changed riskiness of the combined firm, after the deal.



The 20% Control Premium

- Assume that you are now told that it is conventional to pay a 20% premium for control in acquisitions.
- That premium is justified by pointing to historical studies that show that this is what acquirers pay for control, i.e., pay roughly a 20% premium over the market price.
 - 1. How much would you be willing to pay for the target firm?
 - Assuming that you are paying a control premium, how would you justify it?

19

The Shaky Origins of the 20% Control Premium!

- Me-tooism is not great rationale: Just because everyone does it does not make it right.
- Price premium also covers other motives: Even if this is the right premium, on average, it is a premium for everything in a merger, not just control.
- And if it is on a publicly traded firm, it is a pricing premium: The premium is the premium over the market price, not intrinsic value.

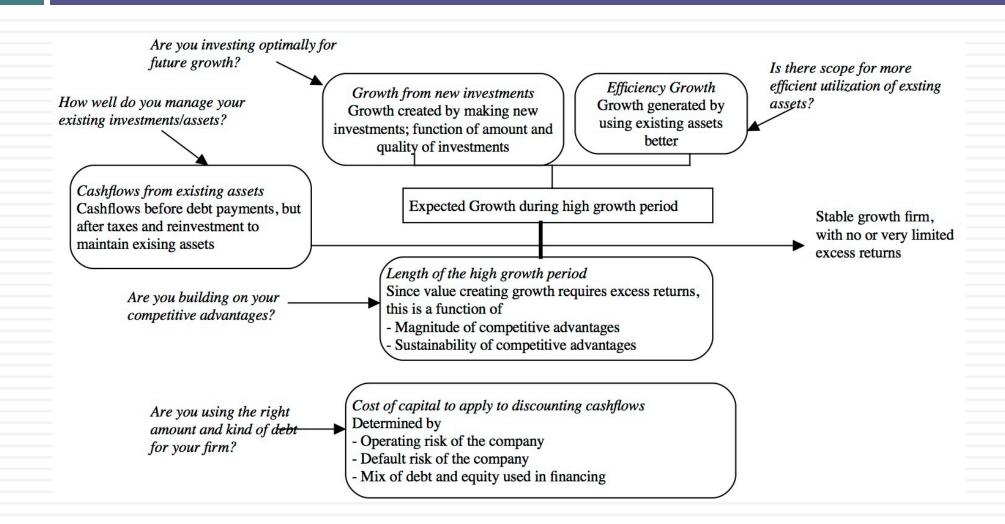
The Expected Value of Control

- 21
- The value of the control premium that will be paid to acquire a block of equity will depend upon two factors -
 - Probability that control of firm will change: This refers to the probability that incumbent management will be replaced. This can be either through acquisition or through existing stockholders exercising their muscle.
 - Value of Gaining Control of the Company: The value of gaining control of a company arises from two sources the increase in value that can be wrought by changes in the way the company is managed and run, and the side benefits and perquisites of being in control

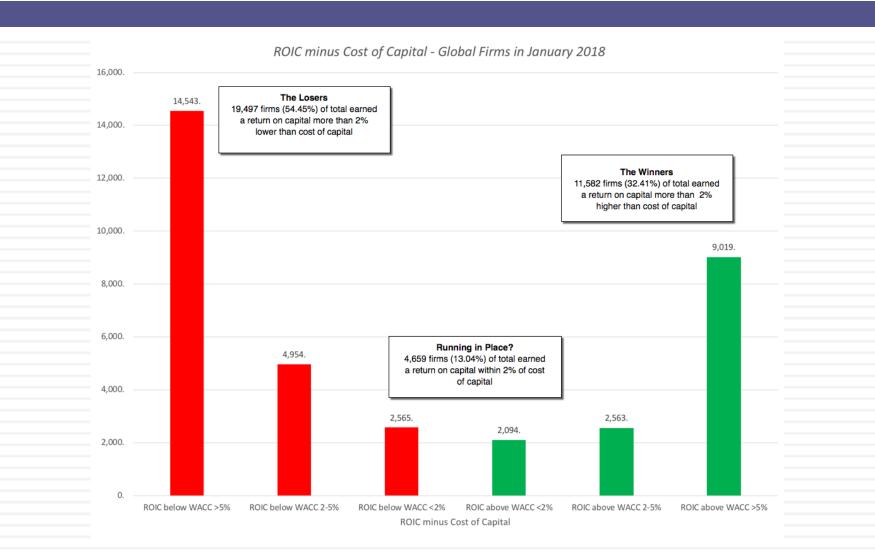
<u>Value of Gaining Control = Present Value (Value of Company with</u> <u>change in control - Value of company without change in control)</u>

Value Enhancement 101

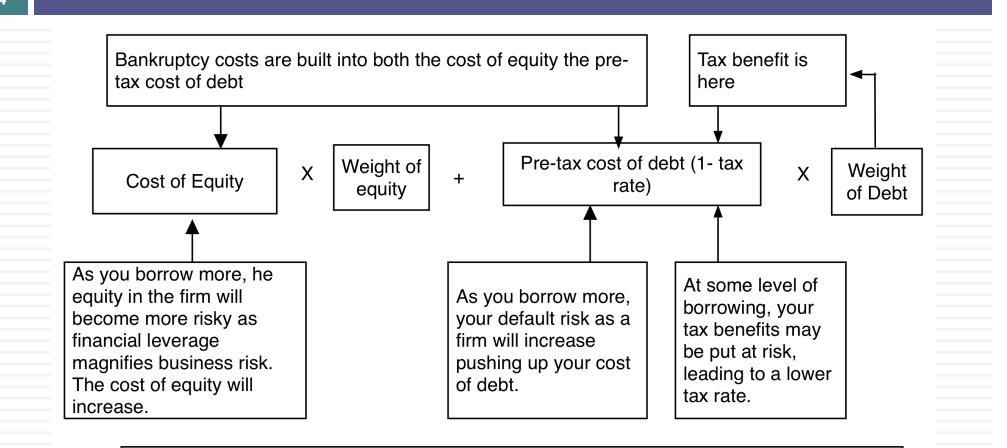




Myth 1: Higher growth = Higher Value



Myth 2: Borrowing money always lowers your cost of capital



The trade off: As you use more debt, you replace more expensive equity with cheaper debt but you also increase the costs of equity and debt. The net effect will determine whether the cost of capital will increase, decrease or be unchanged as debt ratio changes.

Lesson 3: Control is not worth 20%.. It could be worth nothing or 100%

- The value of control is target-specific: The value of control will depend upon how well or badly managed the target firm is, and how easily the mismanagement can be fixed by a new management (presumably you).
- Without a plan, that value will not delivered: Control does not happen by accident. To enhance value, you need to know what (in the target firm) needs changing and what should be left alone and.
- And if you pay it all as a premium, why bother? If you pay the entire value of control as a premium, you are putting in the hard work and target shareholders are reaping the benefits.

If you fail this test

- <u>Pointless Premiums</u>: If control is always worth 20%, you will find a way to pay a premium for any company, even if you have no good reason for doing acquisitions.
- □ <u>Control ≠ Change</u>: If you do not do your homework on what you plan to change after you acquire a firm you will either change nothing or use cookbook solutions (borrow money & buy back stock).
- Leave all value on table: If you do not value control explicitly, you will leave it all on the table or even pay more than it is worth to target shareholders.

²⁷ Test 4: Synergy Magic

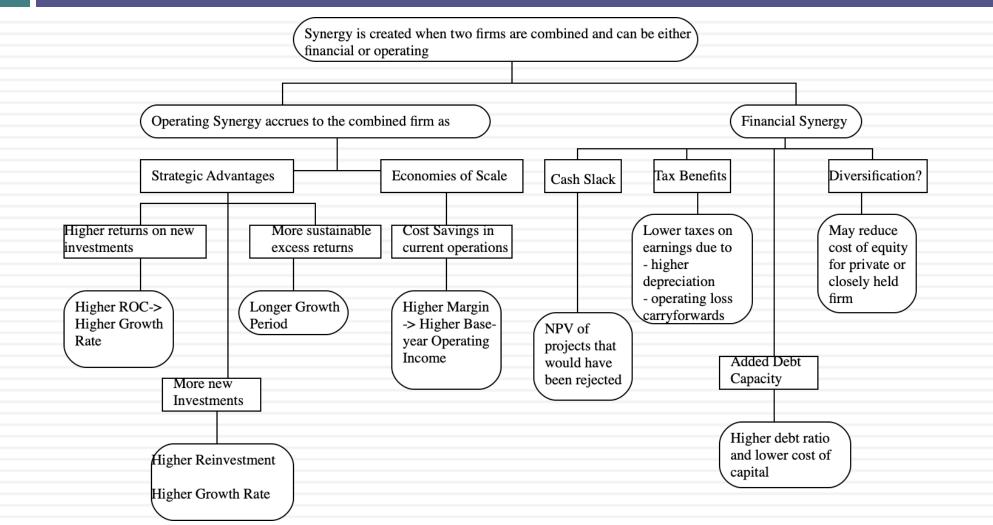
Synergy....

28	
1.	Assume that you are told that the <u>combined firm will be less risky</u> than the two individual firms and that it should have a lower cost of capital (and a higher value). Is this likely?
а) Yes
b) No

- 2. Assume now that you are told that there are potential growth and cost savings synergies in the acquisition. Would that constitute value added?
 - a) Yes
 - b) No
- 3. Should you pay this as a premium?
 - a) Yes
 - b) No

The Value of Synergy

29



Valuing Synergy

30

- <u>Step 1:</u> The firms involved in the merger are valued independently, by discounting expected cash flows to each firm at the weighted average cost of capital for that firm.
- Step 2: The value of the combined firm, with no synergy, is obtained by adding the values obtained for each firm in the first step.
- <u>3. Step 3:</u> The effects of synergy are built into expected growth rates and cash flows, and the combined firm is re-valued with synergy.

Value of Synergy = Value of the combined firm, with synergy -Value of the combined firm, without synergy

Synergy 1.1: Why lower risk is an illusion..

- When we estimate the cost of equity for a publicly traded firm, we focus only on the risk that cannot be diversified away in that firm (which is the rationale for using beta or betas to estimate the cost of equity).
- When two firms merge, it is true that the combined firm may be less risky than the two firms individually, but the risk that is reduced is 'firm specified risk'.
- By definition, market risk is risk that cannot be diversified away and the beta of the combined firm will always be a weighted average of the betas of the two firms in the merger.
- When does it make sense to "merge" to reduce total risk?

Synergy 1.2: Higher growth and cost savings can create value

	P&G	Gillette	Piglet: No Synergy	Piglet: Synergy	
Free Cashflow to Equity	\$5,864.74	\$1,547.50	\$7,412.24	\$7,569.73	Annual operating expenses reduced by \$250 million
Growth rate for first 5 years	12%	10%	11.58%	12.50%	Slighly higher growth rate
Growth rate after five years	4%	4%	4.00%	4.00%	
Beta	0.90	0.80	0.88	0.88	
Cost of Equity	7.90%	7.50%	7.81%	7.81%	Value of synergy
Value of Equity	\$221,292	\$59,878	\$281,170	\$298,355	\$17,185

Synergy 1.3: Paying that synergy as a premium on price is a mistake

- <u>Premium on value versus price</u>: If you have valued the acquiring and target companies and derived the value of synergy by valuing the combined firm, that synergy value is over intrinsic value, not price. You have to compute the premium over price, which can be much smaller (usually) or bigger (sometimes).
 Fair share? If you pay the entire synergy as a
 - Fair share? If you pay the entire synergy as a premium, you are effectively delivering the entire value to the target company stockholders and keeping none for yourself.

33

Lesson 4: Value synergy first and make sure you negotiate for your fair share.

- You have to value synergy, before you decide how much to pay (not after): Synergy will be the buzzword that explains away the premium that you are paying.
- 2. <u>To value synergy, you need specifics</u>: Before you value synergy, you need to be specific about what synergies you see in a merger and where they will show up in a valuation.
- 3. <u>Don't mistake control for synergy</u>: If the benefits can be generated by just one of the two entities in the merger, it is not synergy.
- 4. <u>Negotiate for your fair share</u>: As the acquiring firm, you should negotiate for your share of the synergy, not pay it all off as a premium.

If you fail this test

- 35
- Synergy will become a plug variable: Synergy will be your explanation for the difference between what you paid and what you should have.
- 2. <u>No plan, no synergy</u>: If you are not explicit about the form synergy will take, you cannot plan for it and check to see whether it is being delivered. That may explain:
 - 1. Why synergy does not manifest itself in so many mergers, after the mergers.
 - 2. Why no one seems to lose their jobs, even after the worst mergers.



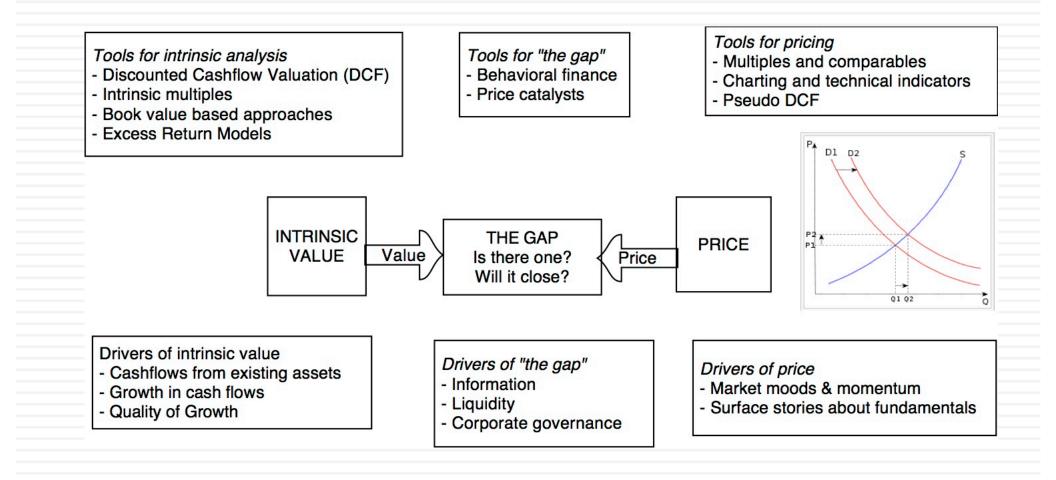
Exit Multiples and Comparables

37

Now assume that you are told that an analysis of other acquisitions reveals that acquirers have been willing to pay 5 times EBITDA.. Given that your target firm has EBITDA of \$ 40 million, would you be willing to pay \$ 200 million for the acquisition?

What if I estimate the terminal value using an exit multiple of 5 times EBITDA?

Pricing ≠ Value



The Problems in Acquisition Pricing

- <u>Biased samples</u>: Basing what you pay on what other acquirers have paid is a recipe for disaster. After all, we know that acquirers, on average, pay too much for acquisitions. By matching their prices, we risk replicating their mistakes.
- <u>Game Playing with Metrics</u>: Allowing analysts (especially if they have an agenda) to pick the multiple that they will use is a recipe for backing into a bad deal.
- Myopic Multipliers: One of the most distracting games in acquisitions is working out EPS accretion and dilution, and arguing that accretive mergers are good (they are not) and dilutive mergers should be avoided (again not true).
- And pushing into the terminal value does not make the problem go away: Creating a front end of cash flows, when the terminal value is coming from a multiple, is not a discounted cash flow valuation.

Lesson 5: If you are going to price a target firm, do it right..

- Pick your game: If you are acquiring other companies not for the cash flows but because you think that you can sell them to someone else at a higher price, it is perfectly okay to play the pricing game. If you are acquiring a firm for its cash flows, you have to play the value game.
- Don't get distracted: If you are playing the pricing game, dispense with the DCF and do an honest pricing. If you are playing the value game, stop looking at what other people are paying.
- To do an honest pricing, you have to be unbiased in your choice of multiple and comparable firms, and control for differences between your firm & the peer group.

If you fail this test..

- You will over price the target: By using a biased sample (of acquirers who are more likely to be over paying), you will end up over paying as well.
- 2. You will open the door to bias in your choice of multiples: Since you pick the multiple, you will find bias guiding your choices.
- 3. You will end up paying twice for synergy and control: Even if other acquirers are paying a "fair" price on their acquisitions, that fair price will already include a control premium and perhaps a synergy premium. Paying these premiums on top of your assessed price will be double paying.



The CEO really wants to do this... Or your competitors are all in the game..

- Now assume that you know that the CEO of the acquiring firm really, really wants to do this acquisition and that the <u>investment bankers on both sides have</u> <u>produced fairness opinions</u> that indicate that the firm is worth \$ 150 million. Would you be willing to go along?
 - a) Yes

- b) No
- Now assume that you are told that your competitors are all doing acquisitions and that if you don't do them, you will be at a disadvantage? Would you be willing to go along?
 - a) Yes
 - b) No

CEO Egos and Overconfidence: The Dirty Secret in Mergers

- The Deal Rules: The premiums paid on acquisitions often have nothing to do with synergy, control or strategic considerations (though they may be provided as the reasons). They are just what you have to pay to get the deals done, because management really, really wants it done.
- The Ego Problem: They may just reflect the egos of the CEOs of the acquiring firms. There is evidence that "over confident" CEOs are more likely to make acquisitions and that they leave a trail across the firms that they run.

Defensive Mergers: Signs of a Deeper Rot?

- 45
- Me-tooism: Pre-emptive or defensive acquisitions, where you over pay, either because everyone else is overpaying or because you are afraid that you will be left behind if you don't acquire are dangerous.
- Weak businesses? If the only way you can stay competitive in a business is by making bad investments, it may be best to think about shrinking or even getting out of the business.
- <u>There is no glory in survival</u>, for the sake of survival.
 Corporate sustainability, as a corporate objective, is not just a joke, but an expensive one.

The Deal Process is broken..

- 46
- 1. <u>Deal makers are deal analysts</u>: If you were going to design a process that maximizes bias, you could not do much better than the current one, especially in a friendly merger.
- 2. <u>Spending other People's Money</u>: Managerial interests don't align with shareholder interests and they can advance them using shareholder money.
- 3. <u>Boards of directors are managerial rubber stamps</u>, mostly incapable or unwilling to check managerial egos.
- 4. <u>The legal system is incapable of stopping bad acquisitions</u>. Unwittingly, it has given acquiring firms a template to evade responsibility for bad mergers, with the expensive charade called "fairness opinions".

Fairness Opinions: A waste of time and

money?

Question		Green	Red
		ayment reflects reasonable payment for	Payment is disproportionately large,
valuation and how much? Is any		aluation services rendered and none of the	relative to valuation services provided,
of the payment contingent on		ayment is contingent on deal outcome.	and/or a large portion of it is contingent
the deal happening?			on deal occurring.
2. Where are you getting the cash flows that you are using in this valuation?		ppraiser estimates revenues, operating	Cash flows supplied by management/
		argins and cash flows, with input from	board of company.
		nanagement on investment and growth plans.	
3. Are the cash flows internally consistent?		Currency: Cash flows & discount rate are in	No internal consistency tests run and/or
		same currency, with same inflation	DCF littered with inconsistencies, in
		assumptions.	currency and/or assumptions.
		Claim holders: Cash flows are to equity	 High growth + Low reinvestment
		(firm) and discount rate is cost of equity	 Low growth + High reinvestment
		(capital).	 High inflation in cash flows + Low inflation in discount rate
		Operations: Reinvestment, growth and risk	inflation in discount rate
Reinvestment		assumptions matched up.	
		cost of equity (capital) that starts with a	A cost of equity (capital) that falls outside
using in your valuation?		ector average and is within the bounds of hat is reasonable for the sector.	the normal range for a sector, with no
E Haw are you		terminal value that is estimated with a	credible explanation for difference.
your valuatio		erpetual growth rate < growth rate of the	A terminal value based upon a perpetual growth rate > economy or a multiple (of
your valuation?		conomy and reinvestment & risk to match.	earnings or revenues) that is not
	e	conomy and reinvestment & risk to match.	consistent with a healthy, mature firm.
6 What valuat	on garnishes have	one.	A large dose of premiums (control,
6. What valuation garnishes have you applied?			synergy etc.) pushing up value or a mess
100 applicat			of discounts (illiquidity, small size etc.)
			pushing down value.
7. What does y	our final judgment A	distribution of values, with a base case value	A range of value so large that any price
AsmathuDamo		nd statistics.	can be justified.

Lesson 6: Egos and Conflicts of Interest are your biggest enemies

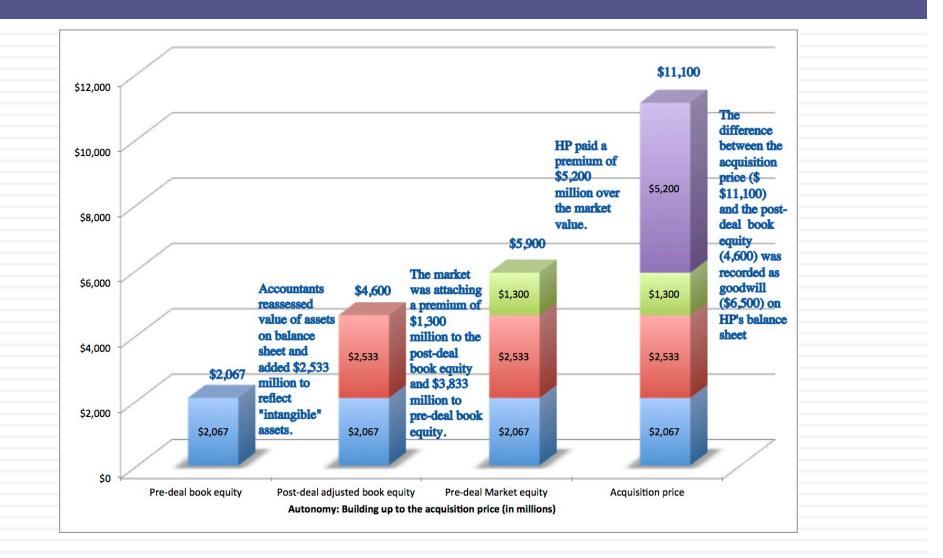
- Winning is not everything: If you define your objective in a bidding war as winning the auction at any cost, you will win. But beware the winner's curse!
- Bankers do what's in their best interests, not yours: If your rewards and compensation are contingent on the deal going through, you cannot be an honest advisor.
- It is easy to spend other people's money: In public companies, it is shareholder money that is being spent on acquisitions, often in the pursuit of managerial interests. Boards of directors need to do their jobs.



When deals fall apart..

- 50
- When deals fall apart, as many do, there seems to be little or no accountability in the system, and the larger the deal, the less accountability there is for mistakes.
- Breaking it down:
 - The managers who initiate these bad deals seem to face few consequences and often move up the ranks.
 - The boards that okay these deals protect themselves by claiming that the did due diligence and listened to experts.
 - The bankers keep their fees, arguing that their missed forecasts were just mistakes.

To illustrate: A bad deal is made, and justified by accountants & bankers

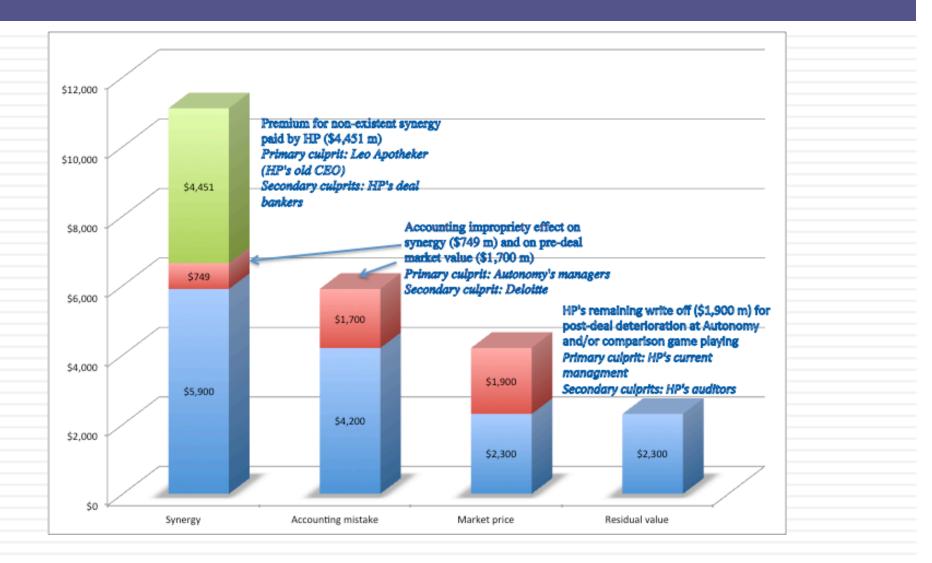


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The CEO steps in... and digs a hole...

- 52
- Leo Apotheker was the CEO of HP at the time of the deal, brought in to replace Mark Hurd, the previous CEO who was forced to resign because of a "sex" scandal.
- In the face of almost universal feeling that HP had paid too much for Autonomy, Mr. Apotheker addressing a conference at the time of the deal: "We have a pretty rigorous process inside H.P. that we follow for all our acquisitions, which is a D.C.F.-based model," he said, in a reference to discounted cash flow, a standard valuation methodology. "And we try to take a very conservative view."
- Apotheker added, "Just to make sure everybody understands, Autonomy will be, on Day 1, accretive to H.P..... "Just take it from us. We did that analysis at great length, in great detail, and we feel that we paid a very fair price for Autonomy. And it will give a great return to our shareholders.

A year later... HP admits a mistake...and explains it...





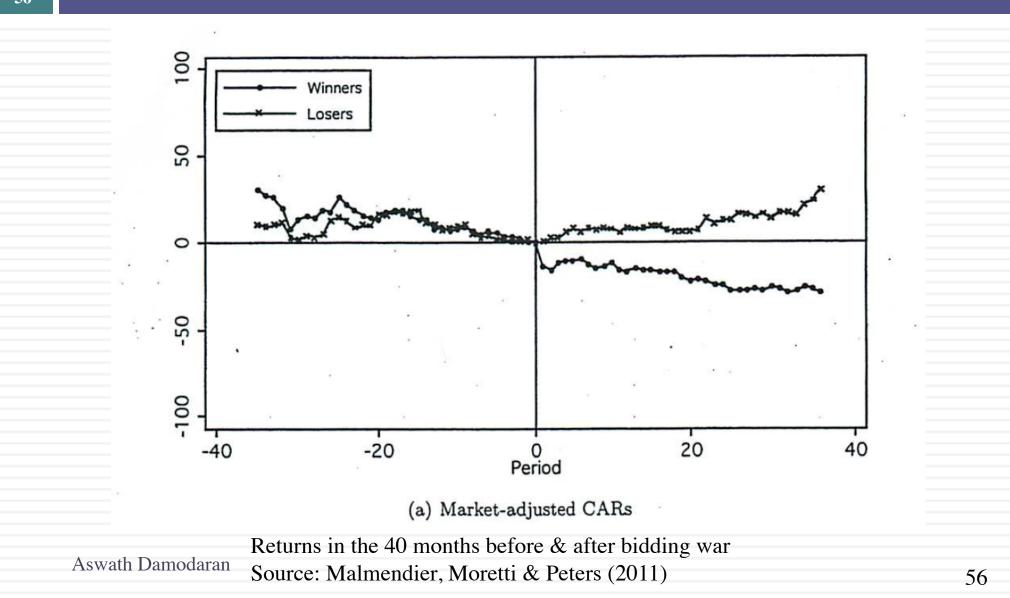
Gauging the Odds

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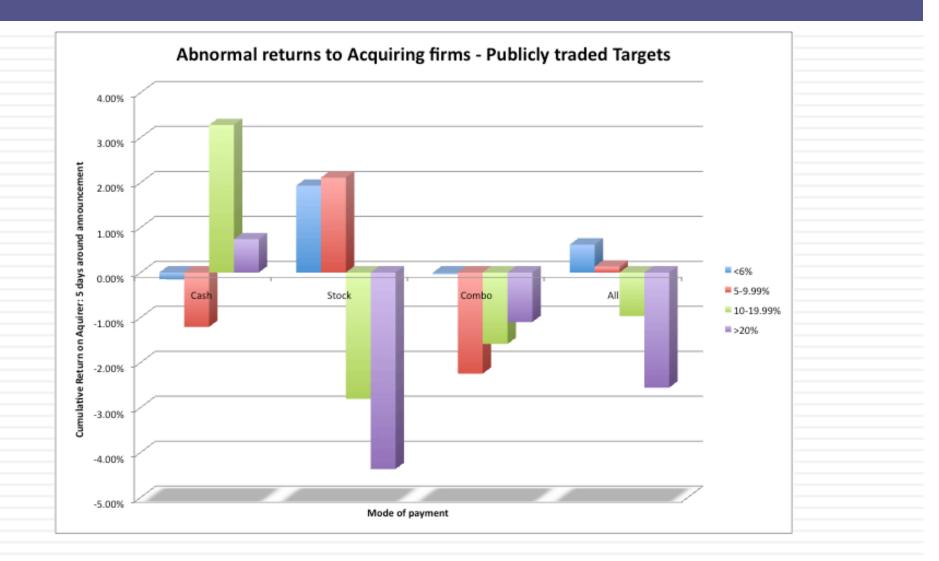
The odds seem to be clearly weighted against success in acquisitions. If you were to create a strategy to grow, based upon acquisitions, which of the following offers your best chance of success?

This	Or this	
Sole Bidder	Bidding War	
Public target	Private target	
Pay with cash	Pay with stock	
Small target	Large target	
Cost synergies	Growth synergies	

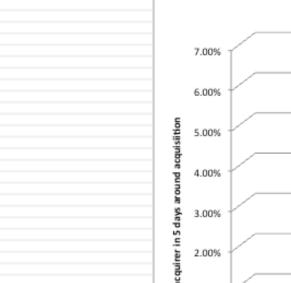
1. Better to lose a bidding war than to win one...



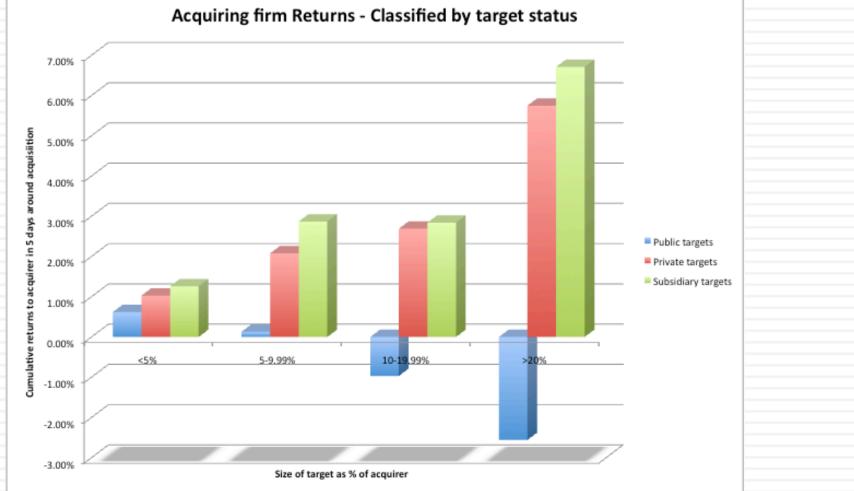
2. Better off buying small rather than large targets...



3. And focusing on private firms and subsidiaries, rather than public firms...

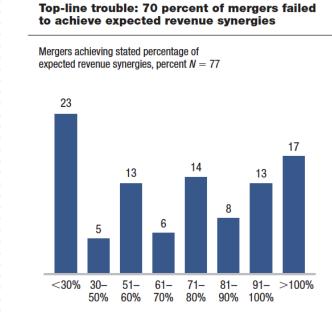


58



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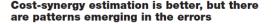
4. On cost synergies, not growth synergies

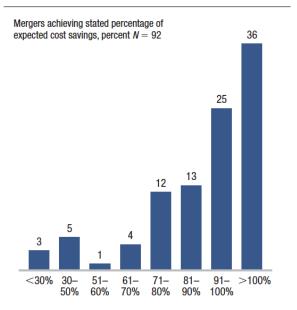


Typical sources of estimation error

- Ignoring or underestimating customer losses (typically 2% to 5%) that result from the integration
- Assuming growth or share targets out of line with overall market growth and competitive dynamics (no "outside view" calibration)

Source: McKinsey (2002) Postmerger Management Practice client survey; client case studies





Typical sources of estimation error

- Underestimating one-time costs
- · Using benchmarks from noncomparable situations
- Not sanity-checking management estimates against precedent transactions
- Failing to ground estimates in bottom-up analysis (e.g., locationby-location review of overlaps

Source: McKinsey (2002) Postmerger Management Practice client survey; client case studies

For acquisitions to create value, you have to stay disciplined..

- 60
- <u>Staying disciplined is the only way to create value in acquisitions</u>. Thus, if you find a way to create value by buying small, private businesses or divisions of other companies, you should stick with that strategy.
- 2. <u>This strategy is time limited</u>: Even the most successful acquirers will finds that an acquisition based strategy runs out of steam because:
 - The acquiring firm becomes too big.
 - Imitators enter the game and push up the price of targets.