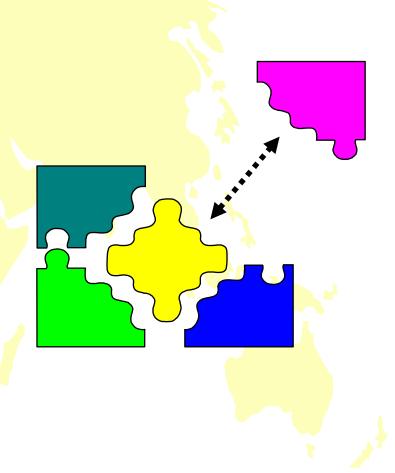


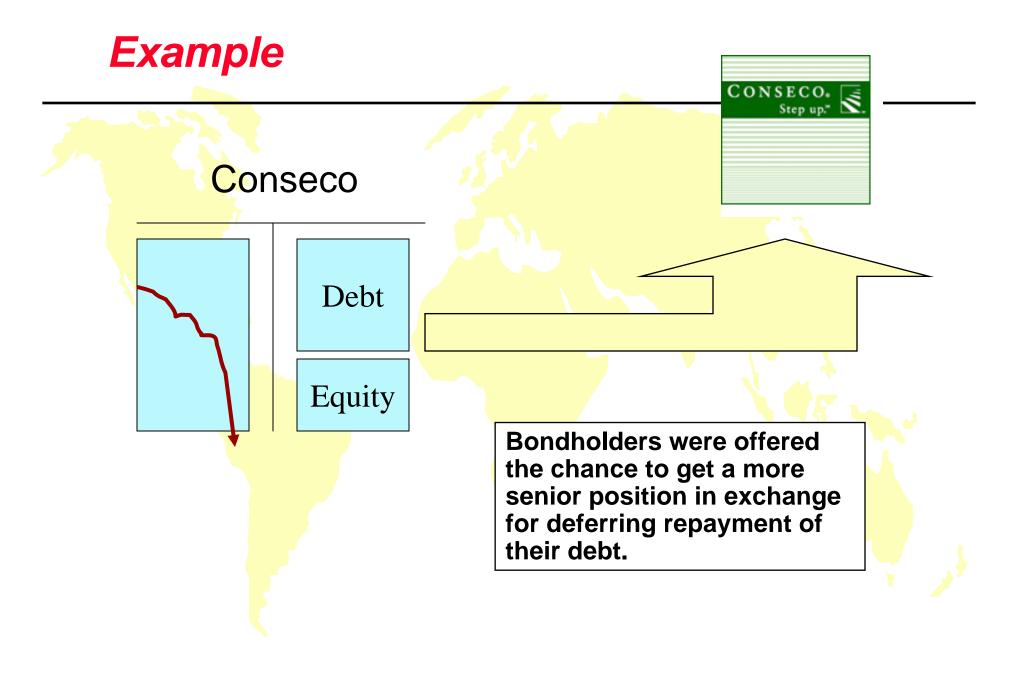
Corporate Financial Restructuring

- Corporate restructuring business and financial
- Debt/Equity restructuring
- Distress-induced restructuring
- Mergers & divestitures
- Leveraged financing

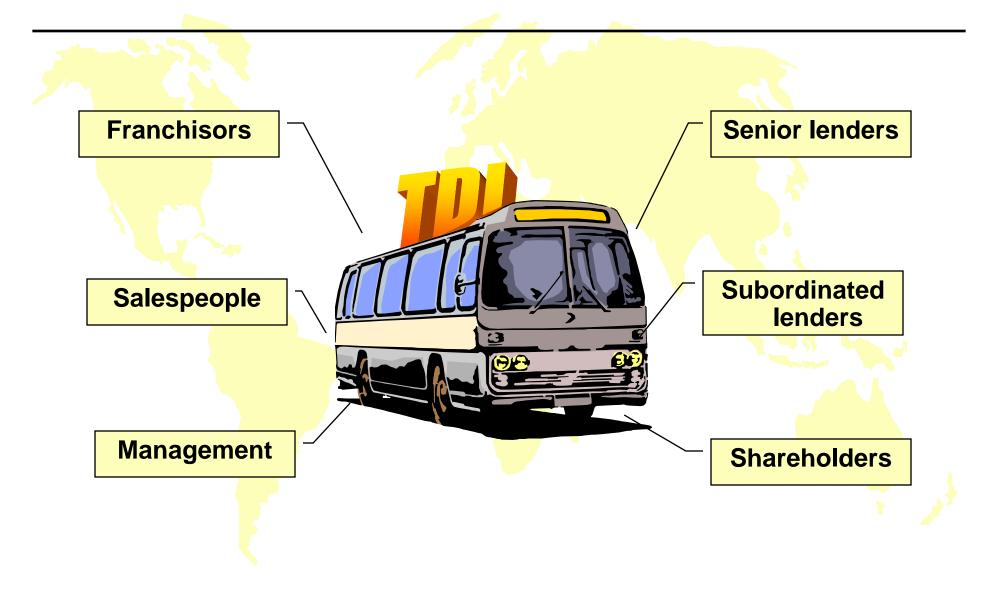


A Simple Framework

- A company is a "nexus of contracts" with shareholders, creditors, managers, employees, suppliers, etc
- Restructuring is the process by which these contracts are changed – to increase the value of all claims.
- Applications:
 - restructuring creditor claims (Conseco);
 - ◆restructuring shareholder claims (AT&T);
 - ◆restructuring employee claims (UAL)



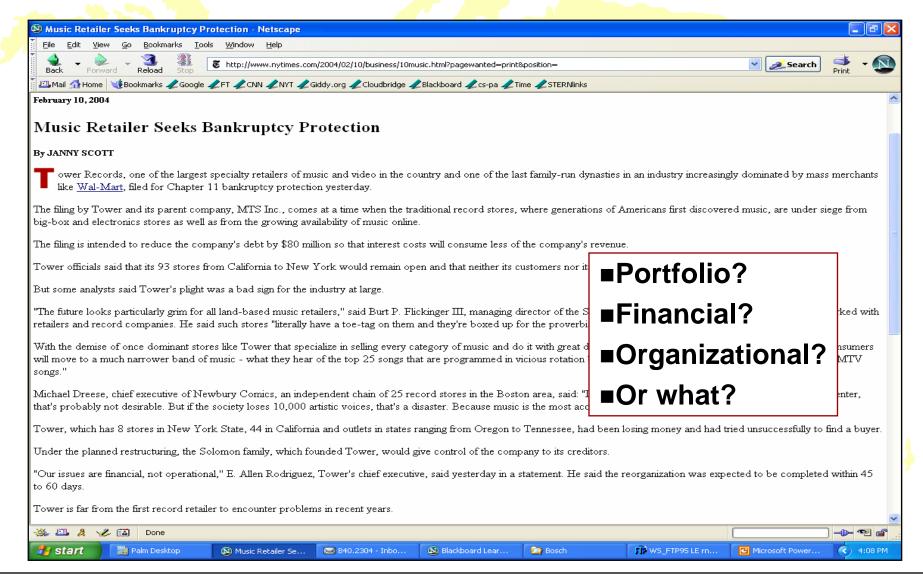
"Nexus of Contracts"



Why and How

- Why restructure?
 - ♦ What is the fundamental problem to be solved?
- How restructure?
 - ◆Create or preserve value, and negotiate how the gains are distributed
- When restructure?
 - ◆Pre-emptive, or under duress?
- Implementing restructuring

Restructuring at Tower



Why Restructure? Some Reasons

- Address poor performance
- Exploit strategic opportunities
- Correct valuation errors

How Restructure?

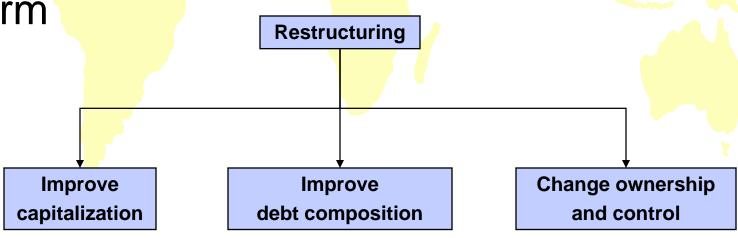
- Fix the business
- Fix the financing
- Fix the ownership/control
- Create or preserve value
- Negotiate distribution of the value

How Restructure? Some Obstacles

- There are market imperfections or institutional rigidities that make it difficult for the firm to recontract
- These include:
 - ◆Transaction costs
 - **♦**Taxes
 - ◆Agency costs
 - ◆Information asymmetries
- Example: The restructuring of USX

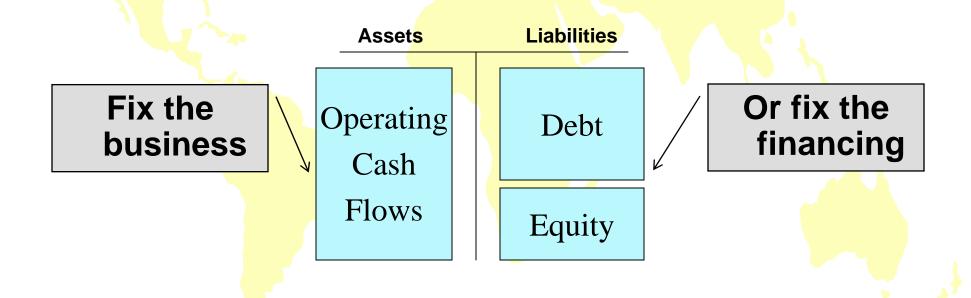
Implementation

- Restructuring: Any substantial change in a company's financial structure, or ownership or control, or business portfolio.
- Designed to increase the value of the firm



Corporate Restructuring: It's All About Value

 How can corporate and financial restructuring create value?



Restructuring Checklist

Figure out what the business is worth now	Use valuation model – present value of free cash flows
Fix the business mix – divestitures	Value assets to be sold
Fix the business – strategic partner or merger	Value the merged firm with synergies
Fix the financing – improve D/E structure	Revalue firm under different leverage assumptions – lowest WACC
Fix the kind of equity	What can be done to make the equity more valuable to investors?
Fix the kind of debt or hybrid financing	What mix of debt is best suited to this business?
Fix management or control	Value the changes new control would produce

Dear Michael,

February 11, 2004

Mr. Michael D. Eisner The Walt Disney Company 500 South Buena Vista Street Burbank, California 91521

AOL Time Warn	er	
DIVISION	ESTIMATED VALUE	
AOL	\$15.2 billion	•
Cable	\$36.9 billion	Ö
Movie studios	\$17.8 billion	20
Music	\$4.6 billion	⊊
Publishing	\$31.9 billion	٦
TV Networks	\$13.3 billion	Ź
Total value:	\$119.7 billion	CNN, Jan 2003
- debt:	\$25 billion	S:
Breakup value:	\$94.7 billion 1.14 per share	Estimates:
Current market value: \$1	\$53.4 billion 2.05 per share	Est

ESPN/Disney Channel and other cable outlets

Though its market cap is \$38 billion, the pieces are worth far

Disney Divided

more-over \$60 billion.

\$1.1 bil (operating income) 38% (% of total) \$26 bil (breakup value)

TV and Radio Stations

\$600 mil (operating income) 19% (% of total) \$10 bil (breakup value)

Theme Parks

\$1.2 bil (operating income post-9/11) 38% (% of total) \$19 bil (breakup value)

Movie Studios

\$350 mil (operating income)

2002

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Forbes,

Estimates:

11% (% of total) \$7 bil (breakup value)

Consumer Products

\$400 mil (operating incom 13% (% of total)

\$4.5 bil (breakup value)

ABC Network

-\$500 mil (operating incon \$3 bil (breakup value)

Dear Michael:

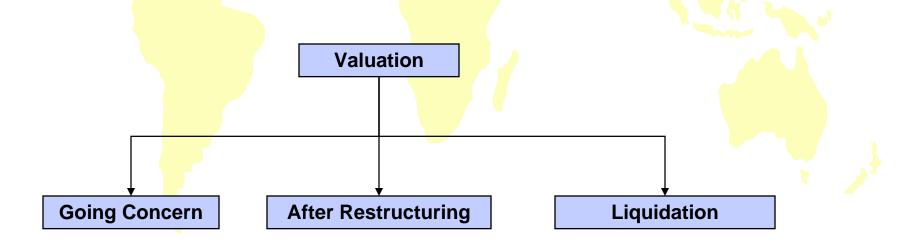
I am writing following our conversation earlier this week in which I proposed that we enter into discussions to merge Disney and Comcast to create a premier entertainment and communications company. It is unfortunate that you are not willing to do so. Given this, the only way for us to proceed is to make a public proposal directly to you and your Board.

We have a wonderful opportunity to create a company that combines distribution and content in a way that is far stronger and more valuable than either Disney or Comcast can be standing alone. To this end, we are proposing a tax-free stock for stock merger in which Comcast would issue 0.78 of a share of its Class A voting common stock for each share of Disney. This represents a premium of over \$5 billion for your shareholders, based on yesterday's closing prices. Under our proposal, your shareholders would own approximately 42% of the combined company.

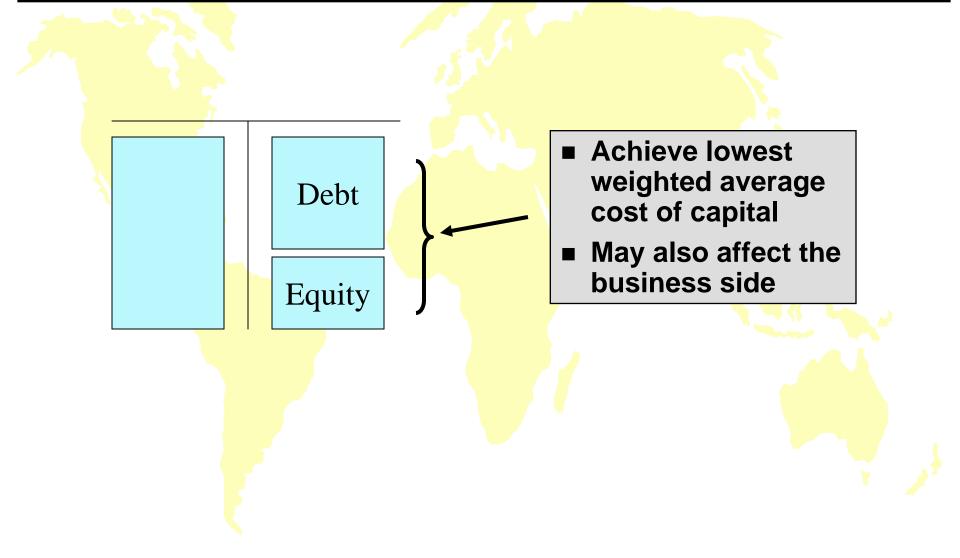
The combined company would be uniquely positioned to take advantage of an extraordinary collection of assets. Together, we would unite the country's premier cable provider with Disney's leading filmed entertainment, media networks and theme park properties.

Valuation is a Key to Unlock Value

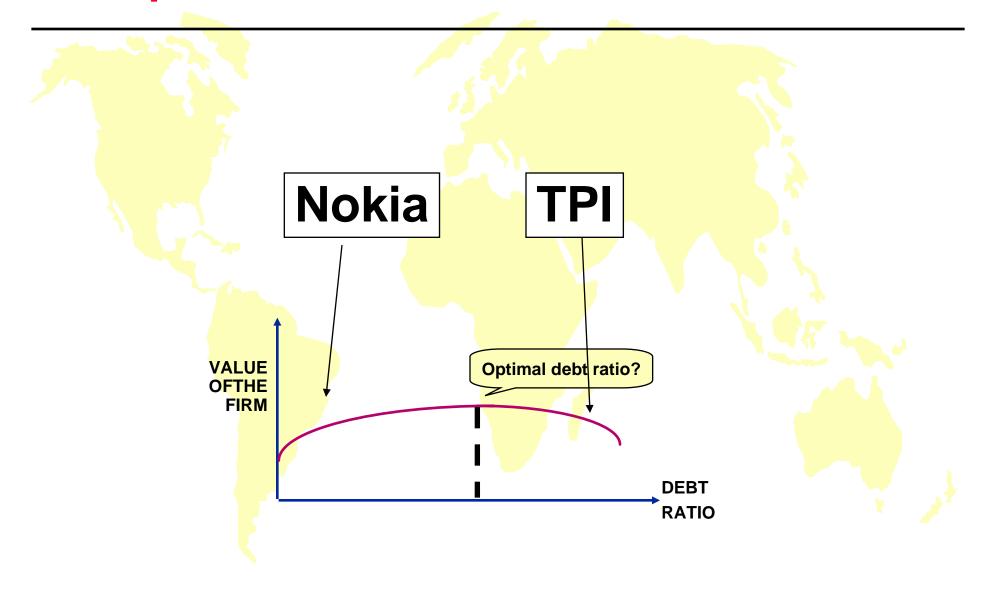
- Value with and without restructuring
- Consider means and obstacles
- Who gets what?
- Minimum is liquidation value



Getting the Financing Right Step 1: The Proportion of Equity & Debt



Capital Structure: East vs West



Equity versus Bond Risk

Assets

Liabilities

Uncertain value of future cash flows

Debt

Contractual int. & principal

No upside

Senior claims

Control via restrictions

Equity

Residual payments

Upside and downside

Residual claims

Voting control rights

What the Cost of Debt Is and Is Not...

The cost of debt is

- the rate at which the company can borrow at today
- corrected for the tax benefit it gets for interest payments.

Cost of debt = $k_d = LT$ Borrowing Rate(1 - Tax rate)

The cost of debt is not

the interest rate at which the company obtained the debt it has on its books.

Estimating Verizon's Cost of Debt

Verizon debt rating = A+ (S&P), suggests expected spread of 56 basis points (based on today's spread) or 60 based on bondsonline.com.

Also, see article, 4/20/04 "Moody's cuts Verizon New York unsecured debt"

http://biz.yahoo.com/rc/040420/telecoms_verizonny_moodys_ratings_1.html

Moody's	bond	rating	tab	le
---------	------	--------	-----	----

		nood, .	- 10 0 11 01	i attiing t	abio			
Rating	1 yr	2 yr	3 yr	5 yr	7 yr	10 yr	30 yr	
Aaa/AAA	9	11	22	28	45	57	77	
Aa1/AA+	18	26	27	39	55	68	89	
	0.0			4.0	=0	70	20	
Aa2/AA	20	32	34	43	58	70	92	
Aa3/AA-	21	35	36	48	62	74	99	
A1/A+	43	48	52	60	75	89	112	
			-					
A2/A	46	51	54	62	77	91	116	
A3/A-	4- 50 5		57	66	80	94	119	
Baa1/BB								
B+	58	68	76	86	116	138	164	
Baa2/BB								
В	61	76	84	91	123	146	171	
Baa3/BB								
B-	68	81	86	96	128	153	176	
Ba1/BB+	230	240	250	260	280	300	320	
Ba2/BB	240	250	260	270	290	310	330	
Ba3/BB-	250	260	270	280	300	320	340	
B1/B+	360	370	380	410	450	490	540	
B2/B	370	380	390	420	460	500	550	
B3/B-	380	390	400	430	470	510	560	
	000	000	100	100	170	010	000	
Caa/CCC	565	675	685	710	720	730	760	
		-	•					

Observation & Analysis. Moderate investment grade risk. Some of the Verizon bonds seems to have been downgraded from A2 to Baa2. From bondsonline A2 has a spread of 91 points (compared to 10year treasury) and Baa2 has a spread of 146 basis points. So just this last week their bond interest rate has gone up by 0.55% approximately.

The Cost of Equity

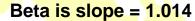
Standard approach to estimating cost of equity:
 Cost of Equity = R_f + Equity Beta * (E(R_m) - R_f)
 where,

R_f = Riskfree rate

E(R_m) = Expected Return on the Market Index (Diversified Portfolio)

- In practice,
 - ◆ Long term government bond rates are used as risk free rates
 - Historical risk premiums are used for the risk premium
 - Betas are estimated by <u>regressing stock returns against market</u> returns

Estimating Verizon's Beta



Equation Y = 0.9917964672 * X + 0.09068610643

Number of data points used = 62

Average X = -0.016892

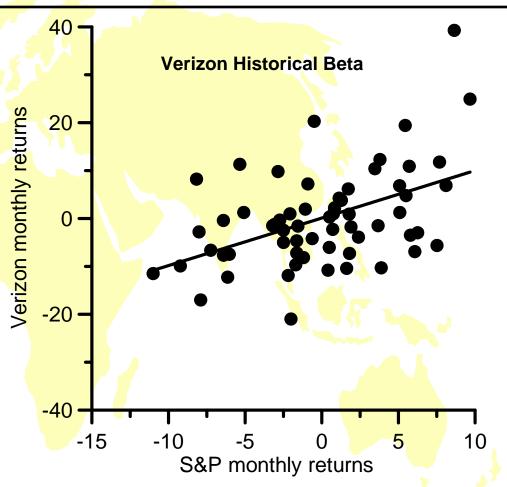
Average Y = 0.0739327

Residual sum of squares = 4881.98

Regression sum of squares = 1401.71

Coef of determination, R-squared = 0.223071

Residual mean square, sigma-hat-sq'd = 81.3663



Observation & Analysis. High equity risk.

Verizon's beta is 1.014 (from

http://finance.yahoo.com/q/ks?s=VZ, www.investor.reuters.com/StockOverview.aspx?ticker=VZ.N) which means that Verizon equity is as risky as the market index to an investor.

Equity Betas and Leverage

 The beta of equity alone can be written as a function of the unlevered beta and the debt-equity ratio

$$\beta_{L} = \beta_{u} (1 + ((1-t)D/E))$$

where

 β_1 = Levered or Equity Beta

 $\beta_{\rm u}$ = Unlevered Beta

t = Corporate marginal tax rate

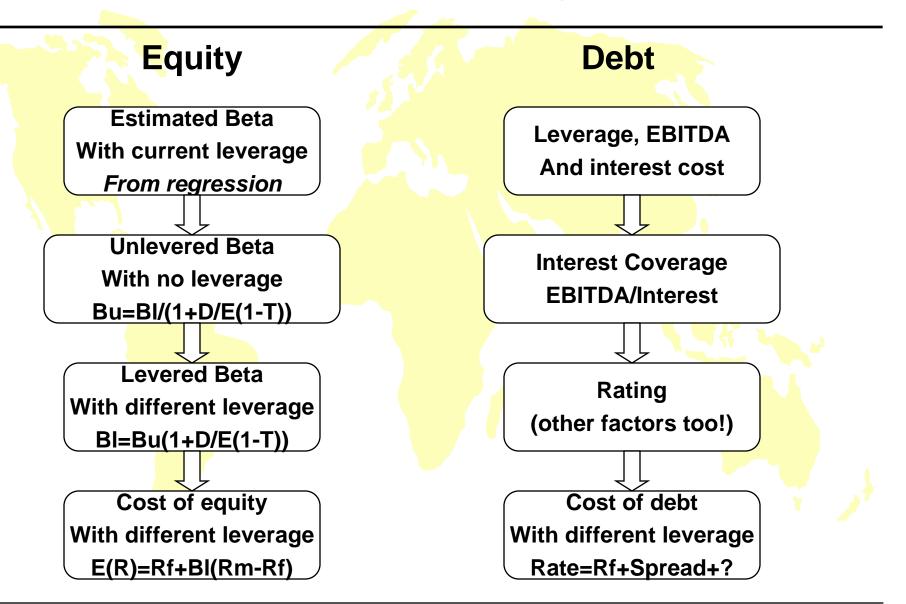
D = Market Value of Debt

E = Market Value of Equity

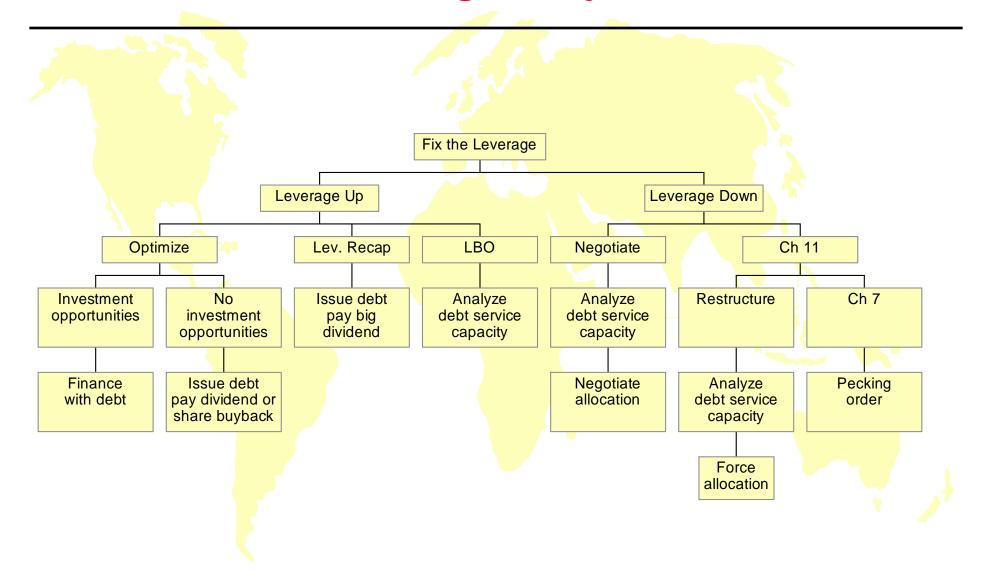
 While this beta is estimated on the assumption that debt carries no market risk (and has a beta of zero), you can have a modified version:

$$\beta_{I} = \beta_{II} (1 + ((1-t)D/E) - \beta_{debt} (1-t) D/(D+E)$$

Cost of Capital and Leverage: Method



Debt Restructuring Analysis



Case Study: SAP

					Interest	Debt /	
			Interest	Interest	coverage	capitaliz	Debt/book
	Debt	Rating	rate	expense	ratio	ation	equity
	0	AAA	5.65%	11	138.76	1%	0.1
	2500	AAA	5.65%	153	10.28	7%	0.7
	5000	Α	6.37%	331	4.73	14%	1.4
	7500	A-	6.56%	505	3.10	21%	2.1
1	0000	B+	10.90%	1,112	1.41	27%	2.7

- Should SAP take on additional debt? If so, how much?
- What is the weighted average cost of capital before and after the additional debt?
- What will be the estimated price per share after the company takes on new debt?

Minimize the Cost of Capital by Changing the Financial Mix

- Add debt, reduce equity
- See effect of added debt on interest costs and rating
- See effect of rating on interest cost
- See effect of leverage on cost of equity
- Net effect will determine whether the WACC decreases if the firm takes on more or less debt.

Exercise 1

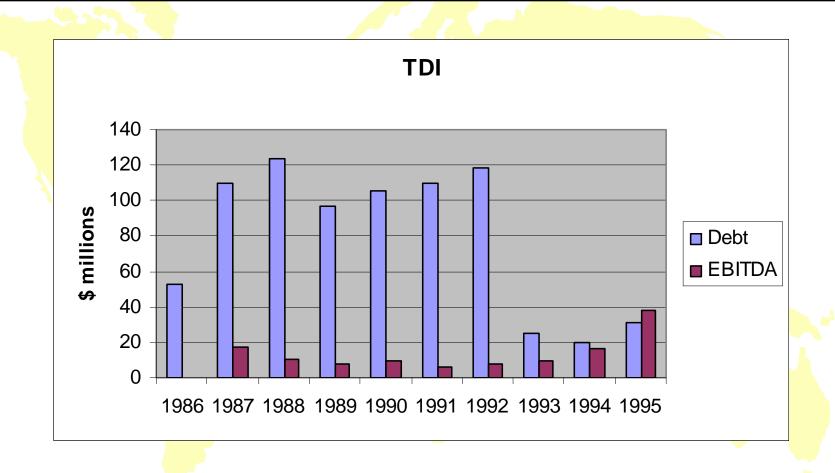
					A. Carrier						
You have b	You have been asked to evaluate whether the company has an										
appropriate	amount of	debt.									
Debt outsta	anding:	1,000	EUR million								
Debt rating	:	AAA									
Market rate	on bonds	with rating	AAA	5.10%							
Governmen	nt 10-year bo	ond rate:	4.25%								
Estimated	pretax profit	-	1600								
Based on t	he company	y's interest	coverage pre	pare a tabl	е						
showing wh	nat an incre	ase in long	term debt wo	uld do to th	e compar	ny's ratings	and its cos	st of borrow	ing		
					Interest	Debt /					
		New	Interest	Interest	coverage	capitalizat					
New debt	Total debt	Rating	rate	expense	ratio	ion					
0	1,000	AAA	5.10%	51	32.37	3%					
2500	3,500	AAA	5.10%	179	9.96	11%					
5000	6,000	A+	5.67%	340	5.70	19%					
10000	11,000	A-	6.01%	661	3.42	35%					

Source: debtcapacity.xls

Restructuring at TDI



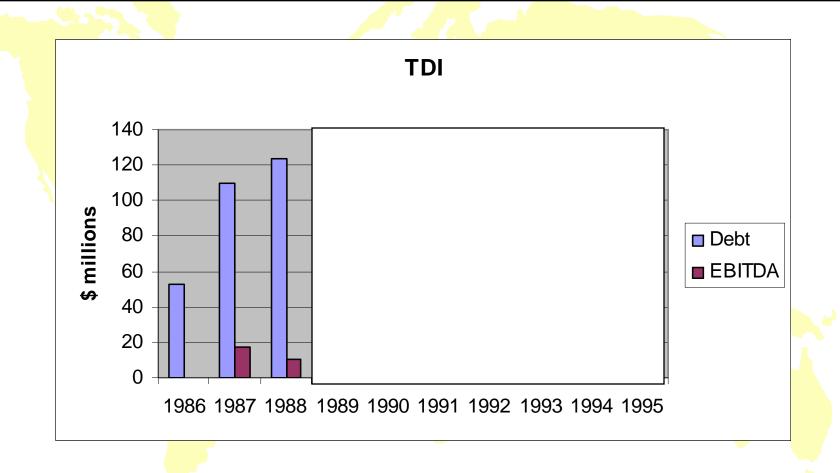
TDI Financial History



Restructuring Debt and Equity, Part II

- SAP (optimizing the capital structure)
- Argus (application to a private firm)
- TDI (sequence of operational and financial restructuring efforts)
 - ◆Restructuring under threat of financial distress
 - ◆Restructuring to exploit free cash flows
 - **◆**Exit options

TDI Financial History

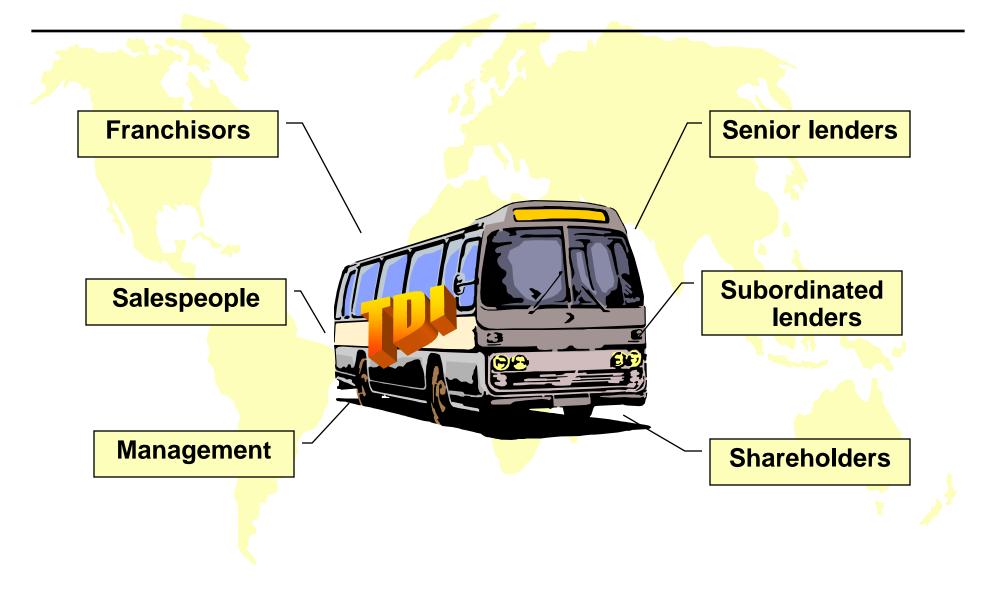


Exercise 2

A company is strugglir	ng with a w	eaker	mark	cet. It exped	cts a turnar	ound in a c	ouple of yea	ars,			
but now must work o	out the am	ount	of de	ebt it can c	arry.						
Based on last year's p	erformance	e, man	agen	nent estima	ites EBIT a	t	12	m			
Discussions with the banks show that in order to avoid violating covenants											
a minimum EBIT intere	est coveraç	je ratio	of	1.3	must be m	naintained					
Currently US treasurys	pay			4%							
It currently has debt of				90	m						
What is the company's	s debt capa	acity?									
Estimating borrowing	g capacity	<i>'</i>									
Given:											
EBIT		\$	12								
Min EBIT int coverage ratio 1.			1.3								
Interest capacity		\$	9								
Interest rate		14.	00%								
Debt capacity		\$	66								

Source: debtcapacity.xls

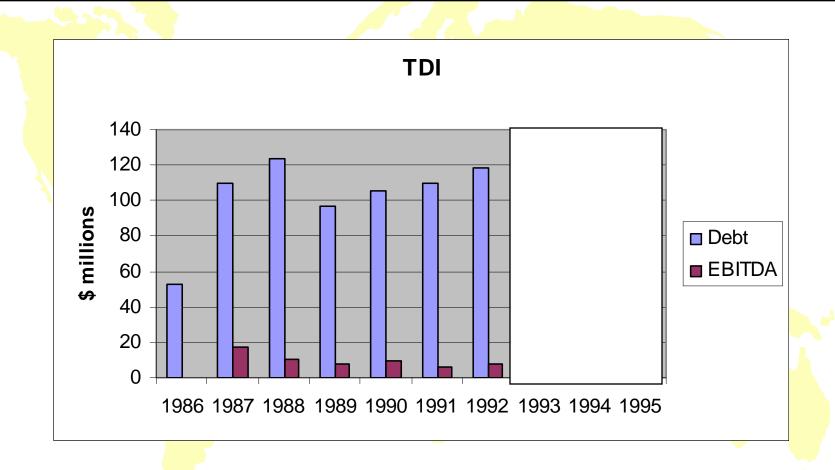
"Nexus of Contracts"



Restructuring Debt and Equity at TDI (A & B)

- Evaluate the financial restructuring taking place at TDI:
- Effect of the LBO on capital structure?
- How did LBO lenders protect their interests?
- Alternative restructuring plans?
- Post Dec 89 operational, portfolio and financial restructuring proposals?
- 1992-93 restructuring, before-and-after comparison

TDI Financial History



Exercise 3

but now must ren	egotiate its o	capital stru	cture					
Based on last year'	s performanc	e, managen	nent estima	ates EBIT	at	12	m	
Discussions with th	ie banks shov	w that in ord	ler to exten	d credit, t	they insist o	n		
a minimum EBIT in	terest coveraç	ge ratio of	1.5					
Currently US treasu	ırys pay		4%					
The company has o	lebt of		90	m	paying	12.0%		
Equity is estimated	to be worth		20	m				
What is the debt we	orth?							
What is the compa	ny's debt cap	acity?						
What new capital s	tructure could	d be negotia	ted with the	e banks?				
Estimating borrow	ing capacity	y		Prelimir	nary capital	structure		
Given:				Debt			\$	
EBIT		\$ 12		Mezzani	ne		\$	
Min EBIT int covera	ge ratio	1.5		Equity			\$	
Interest capacity		\$ 8		Total fina	ancing		\$	
Interest rate		12.00%						
		\$ 67		Pre-restr	debt value:			
Debt capacity		Ψ						

Restructuring Debt and Equity at TDI (C)

Consider the choices facing TDI in 1994:

- Evaluate the alternatives available to take best advantage of TDI's free cash flow:
 - ◆Leveraged buyout
 - ◆Leveraged ESOP
 - ◆Leveraged recapitalization
- Or: Invest cash or debt in growth opportunities
- Or: Do nothing to retain flexibility

Exercise 4

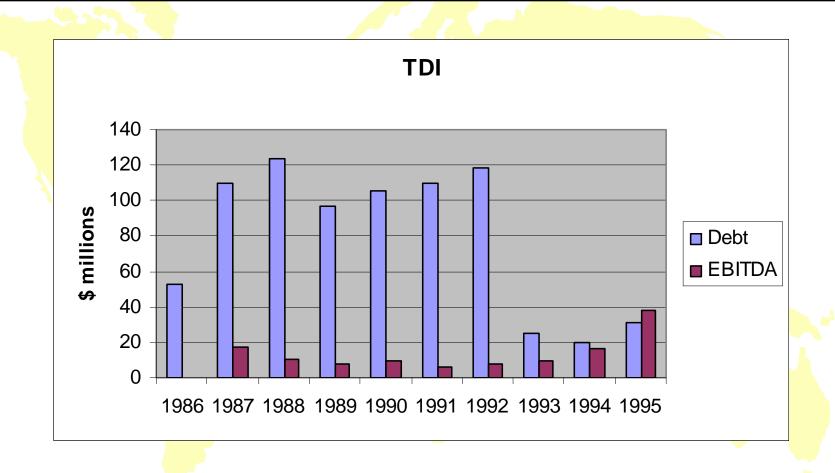
			cceeded in i								
	Now man	agement i	s consider	ing d	oing	a leverage	ed recap				
	-		/ has debt o	of		90	m				
		ent estimate				45	m				
	Banks' mir	nimum EBI	Tinterest co	overaç	ge rati	2					
	Currently l	JS treasury	s pay			4%					
	The estima	ated value o	of the firm is			250	m				
	The firm's	tax rate is				30%					
	What is th	e company	's debt capa	acity?	?						
	What shou	uld they do?	?								
	What effect	t would this	s have on th	e sha	are pri	ce?					
	Estimating	g borrowir	ng capacity	<i>'</i>			Prelimina	ry capital	structure		
	Given:						Debt			\$	214
	EBIT			\$	45		Mezzanine)			
	Min EBIT i	nt coverage	ratio	\$	2		Equity			\$	36
	Interest ca			\$	23		Total finan	cing		\$	250
	Interest rat	te		10).50%						
	Debt capa	city		\$	214		Dividend?			\$	124
							Tax shield	gain?			13.05
							PV tax shi	eld gain?		\$	125
							Assumes	growth	3%		
								WACC	10.50%		
		<u></u>					Equity valu	le:		\$	285
Source: debtcap	acity.xls	S					Gain of			·	78%

Restructuring Debt and Equity at TDI (D)

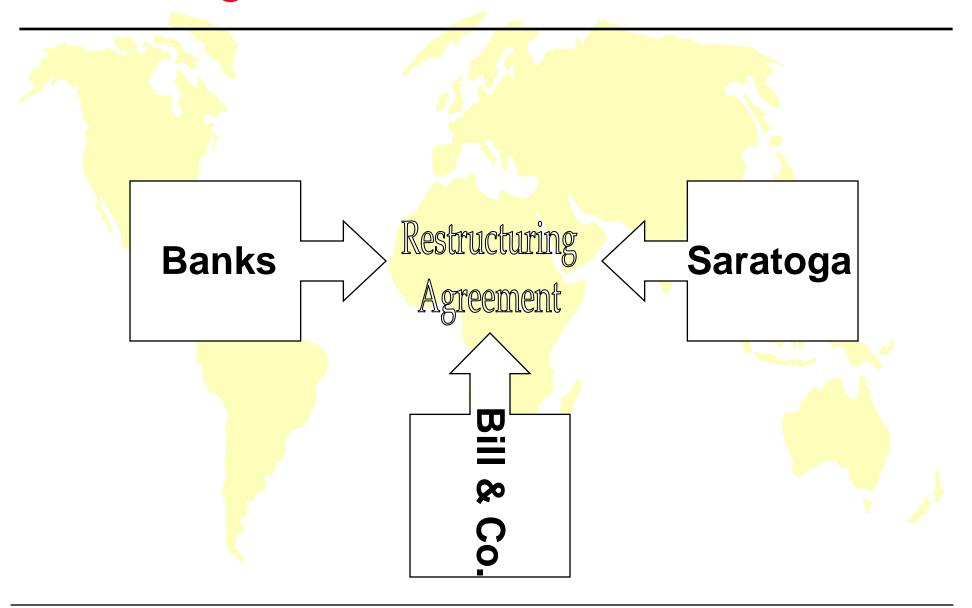
Evaluate the possible means for cashing out shareholder value in a private company such as TDI in 1996:

- ◆Leveraged recap
- **♦IPO**
- ◆Sale to financial buyer
- ◆Sale to strategic buyer
- Which when?

TDI Financial History



TDI Negotiation



TDI In-Class Negotiation Assignment

Three teams:

- Senior bank group: what do the banks agree to?
- Saratoga Partners: what do the equity investors get?
- Apfelbaum & management: what equity/bonus package does management get?

Assignment:

- Study TDI (A). Show, with numbers, why a restructuring is necessary
- It is October 1989. Negotiate an agreement that will see TDI through 1992
- ◆ Turn in your Team Report (2 pages plus exhibits) listing the terms of the agreement by 6pm Friday 20th. (Send it by email to ian.giddy@nyu.edu, with cc to ts664@stern.nyu.edu)

Contact Info

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