Email: adamodar@stern.nyu.edu Website: http://www.damodaran.com Blog: <u>http://aswathdamodaran.blogspot.com</u> Twitter: @AswathDamodaran Valuation app for iPad/iPhone: uValue on iTunes U

DON'T SWEAT THE SMALL STUFF: A BIG PICTURE PERSPECTIVE ON FINANCE

Aswath Damodaran

Lesson 1: Every business decision is ultimately a financial one

- Every decision that a business makes has financial implications, and any decision which affects the finances of a business is a corporate finance decision.
- Defined broadly, everything that a business does fits under the rubric of corporate finance.



So, watch out for these justifications

- □ <u>The "Expert" Cop out</u>: For many firms, the easiest way to explain the unexplainable is to pass the buck and get a consultant/expert to sign off on an action.
- Weapons of distraction: Managers/investors/analysts seem to find ways of over riding the numbers with buzz words. Here are some to watch out for:
 - Gut feeling" or "Intuition": Older, more experienced managers often claim to have a gut feeling about decisions. Psychological studies of gut feeling find that they are almost never based upon good data, are often completely wrong and get worse as managers get smarter/ more experienced.
 - <u>"Strategic</u>": The word "strategic" almost always goes to describe actions that cannot be justified based upon the numbers...

The scariest page in your annual report

/ STRATEGIC ACQUISITIONS⁽¹⁾

Thanks to its recent acquisitions with a global or regional vocation, L'Oréal is nourishing its brand portfolio, stepping up its presence in the main distribution channels and covering the whole range of beauty territories.



UNITED STATES

URBAN DECAY MODERN AND IRREVERENT

An American brand that specialises in accessible make-up in the selective segment, URBAN DECAY is strengthening the positions of L'Oréal Luxe in the dynamic distribution channels of "assisted self-service"⁽²⁾ and e-commerce. A brand that fulfils the expectations of young women searching for inspiring ideas and creative colours.



COLOMBIA

VOGUE A LOCAL MAKE-UP LEADER IN THE MASS-MARKET ⁽³⁾

VOCUE is an important acquisition for L'Oréal Colombia, consolidating its presence in this highly competitive market. The brand also offers development opportunities outside its country of origin, particularly in Central America, Ecuador and Peru.



Lesson 2: Have a destination before you leave: Have a dominant objective that is measurable...

- If you don't have an objective, your decision making process has no rudder. Each manager will then create his or her own vision of where the business is going, and make decisions based on that vision.
- If you have multiple objectives, you will still have to make choices. If you are not clear about which objective should dominate, managers again will pick their own dominant objectives, leading to them working at cross purposes.
- If you have a fuzzy objective, you are giving no guidance on both how decisions should be made and no accountability for decisions, once made.

What is L'Oreal's objective in business?

- The Beauty Mission? Giving everyone access to beauty by offering products in harmony with their needs, culture and expectations in their infinite diversity.
- The Innovation Mission? The exploration of new scientific and technological territories....
- The Global Mission? Based on its international positions and its power of innovation, the Group's ambition is to conquer a billion new consumers by 2020
- The Social Mission? As a company which seeks to be exemplary, and sets itself demanding standards in order to limit its footprint on the planet.

Here is my choice...



7

Lesson 3: In any business, you are juggling conflicting interests..

Consultants	Inside stockholders Want to <u>maximize value</u> while <u>retaining control</u>	Outside stockholders Want to <u>maximize their returns</u> (stock price plus dividends).	Auditors
Lenders Bankers/Bondholders	Board of Want to preserve personal connection	Society Wants companies	
want to <u>minimize</u> <u>credit risk</u> and ensure that interest/principal get paid.	Ma Want to maximize their compensati	nagers on and increase personal marketability.	economic pie without creating <u>social costs</u> .

Want to ensure that you follow the rules and do not create problems for them.

Want to <u>minimize job risk</u> and maximize wages/ benefits.

Want the <u>best possible</u> product/service at the lowest price

Jovernment

With the board of directors as a good example of the conflict of interest...

In theory, the board of directors should work to protect the best interests of stockholders, monitoring top management to ensure that they do their fiduciary duty.

□ In practice, boards are not effective because:

- They are rubber stamps for CEOs: In many companies, the directors who sit on the board are picked by the CEO and inside stockholders. While outside stockholders get to nominally vote on these directors, they are not given any real say in the process.
- <u>Directors are ill equipped to play the role of monitors</u>: Directors often lack the expertise to question top managers, lack the information to raise questions and the time to follow through.
- Directors are generally not large stockholders nor do they represent them: In most companies, directors own only token stakes in the company.

The L'Oreal Board: Be the judge!



A diverse Board of Directors⁽¹⁾ striving to offer beauty for all

(1) Board members as of 31/12/2013.





1. JEAN-PAUL AGON Chairman and CEO since March 18th, 2011 (term of office renewed in 2010).

2. JEAN-PIERRE MEYERS Vice-Chairman of the Board (term of office renewed in 2012).

3. PETER BRABECK-LETMATHE Vice-Chairman of the Board (term of office renewed in 2013).

4. FRANÇOISE BETTENCOURT MEYERS (term of office renewed in 2013).

5. PAUL BULCKE (since April 17th, 2012).

6. CHARLES-HENRI FILIPPI (term of office renewed in 2011).

7. XAVIER FONTANET (term of office renewed in 2010).

8. BERNARD KASRIEL (term of office renewed in 2012).

9. CHRISTIANE KUEHNE (since April 17th, 2012).

10. MARC LADREIT DE LACHARRIÈRE (term of office renewed in 2010).

11. JEAN-VICTOR MEYERS (since 2012).

12. VIRGINIE MORGON (since April 26th, 2013).

13. ANNETTE ROUX (term of office renewed in 2011).

14. LOUIS SCHWEITZER (term of office renewed in 2013).

Lesson 4: Understand the essence of risk

 Risk, in traditional terms, is viewed as a 'negative'. Webster's dictionary, for instance, defines risk as "exposing to danger or hazard". The Chinese symbols for risk, reproduced below, give a much better description of risk:

危機

The first symbol is the symbol for "danger", while the second is the symbol for "opportunity", making risk a mix of danger and opportunity. You cannot have one, without the other.

Risk can come from many places...



And not all risk is made equal...

- □ If you are a sole owner of a business, you are exposed to all of the risks in a business. Thus, your hurdle rate should reflect those risks.
- If you are a publicly traded company, the game changes. As a manager, you have look at risk through the eyes of the marginal investor in your company. There are two criteria that go into being a marginal investor:
 - You need to own enough stock to make a difference. In other words, you have to be a large stockholder.
 - You have to trade that stock. Thus, a founder who owns a lot of stock but does not trade is not the marginal investor.
- If that marginal investor is a mutual fund or institutional investor, the only risk they see in an investment is the risk that it adds to a diversified portfolio. Consequently, the only risk you as a manager should build into your hurdle rate is the risk that cannot be diversified away.

Know your marginal investor..

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L'Oreal SA						ISI	IN FROOO	01203
1) Current 2) Historical	3) Matrix 4) Ownership	5) Transac	tions	6) Options				
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		All Sources	All •					
1. BETTENCOURT FAMILY	n/a	Research		185,704,089	33.25	0	07/08/14	100
2. NESTLE SA	n/a	Research		129,881,021	23.25	0	07/08/14	1
3. NORGES BANK INVESTME	NT M NORGES BANK IM GOVER	MF-NOR		8,906,026	1.59	0	12/31/13	5 100
4. L'OREAL SA	n/a	Co File		6,107,857	1.09	0	12/31/13	5 100
5. EVANGUARD GROUP INC	Multiple Portfolios	MF-AGG		5,585,899	1.00	-1,382	07/31/14	ł
6. IBLACKROCK	n/a	ULT-AGG		4,550,787	0.81	-1,267,092	09/03/14	ŧ
7. HARBOR CAPITAL ADVIS	DRS IHARBOR INTERNATIONA	MF-USA		4,446,174	0.80	0	06/30/14	1
8. CREDIT AGRICOLE SA	Multiple Portfolios	MF-AGG	Y	3,073,496	0.55	-483,676	07/31/14	F
9. MATIXIS SA	n/a	ULT-AGG		1,850,856	0.33	-374,060	04/30/14	F
10. ■FIDELITY MANAGEMENT 8	RES Multiple Portfolios	MF-AGG		1,726,200	0.31	-48,946	07/31/14	+
11. BANK OF NEW YORK MELL	ON Multiple Portfolios	MF-AGG		1,583,554	0.28	-26,636	09/03/14	+
12. MALLIANZ SE	n/a	ULT-AGG		1,462,780	0.26	4,475	06/30/14	+
13. IFIL LIMITED	n/a	ULT-AGG		1,460,706	0.26	800,432	04/30/14	+
14. THREADNEEDLE ASSET M	ANAG Multiple Portfolios	MF-AGG		1,416,261	0.25	-13,806	05/31/14	+
15. CAPITAL GROUP COMPAN	IES n/a	ULT-AGG		1,414,299	0.25	44,299	07/31/14	+
16. COMGEST S A	Multiple Portfolios	MF-AGG		1,301,867	0.23	26,329	08/31/14	ŧ
17. MDEUTSCHE BANK AG	n/a	ULT-AGG		1,165,584	0.21	-18,280	09/04/14	ŧ
18. MASSACHUSETTS FINANC	IAL Multiple Portfolios	MF-AGG		969,370	0.17	14,311	06/30/14	ŧ 👘
19. IILBPAM	Multiple Portfolios	MF-AGG		964,387	0.17	-38,030	06/30/14	ŧ
	% Out	69.38	Short	t Interest % Out r	1/2	700m	+	100%

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Your risk is not a statistical number or a greek alphabet..

Actuality index energies 70 Actions 71 Luit	HIStorical Bet
Data Last Price Data Last Price Weekly 🛛 🖬 Linear 🖬 Beta +/- 🖾 Non-Param R	eg On Percent
■ 09/04/12 ■ - 09/04/14 ■ □ 09/05/11 ■ - 09/04/13 ■ Stacked ■ Lag 0 □Winsorize 2 S	td Dev Local CC
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▼ Y = L'OREAL	
5.0 - X = CAC 40 INDEX	
4.0- Linear Beta	Range
ti → → → → Raw BETA	0.5
Adjusted BETA	0.6
ALPHA (Intercept)	0.1
Image: State St	0.2
R (Correlation)	☑ 0.5
Std Dev of Error	1.6
Std Error of ALPHA	0.1
-2.0 - Std Error of BETA	0.0
-3.0 - t-Test	6.5
Significance	0.0
Last T-Value	-0.4
Last P-Value	0.3
-5.0 -4.0 -5.0 -2.0 -2.0 -1.0 0.0 1.0 2.0 3.0 4.0 5.0 Number of Points	1
Last Spread	☑0.
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But comes from your choices as a

business..



Let's do an intuitive check on L'Oreal

In your annual report, you break yourself down into six businesses:

- a. Consumer Products (growth = 5.8%)
- b. L'Oreal Luxe (growth = 6.8%)
- c. Professional Products
- d. Active Cosmetics
- e. The Body Shop
- f. Galderma

Do you see them all as equally risky businesses? If not, how would you rank them (from most to least risky)?

Lesson 5: Know your "hurdle" rate

Since financial resources are finite, there is a "hurdle rate" that projects have to cross before being deemed acceptable. A simple representation of the hurdle rate is as follows:



	Andorra	6.80%	1.80%	Liechtenstein	5.00%	0.00%		4.11	11 750	6.850]		_
	Austria	5.00%	0.00%	Luxembourg	5.00%	0.00%	,	Albania	0.500	6.75%	Bangladesh	10.40%	5.40%
4	Belgium	5.90%	0.90%	Malta	6.80%	1.80%	,	Armenia	9.50%	4.50%	Cambodia	13.25%	8.25%
<u> </u>	Cyprus	20.00%	15.00%	Netherlands	5.00%	0.00%	,	Belarus	8.30%	9.75%	China	5.90%	0.90%
0	Denmark	5.00%	0.00%	Norway	5.00%	0.00%	,	Bosnia and Herzegovina	14.75%	9.75%	Fiji	11.75%	6.75%
	Finland	5.00%	0.00%	Portugal	10.40%	5.40%	,	Bulgaria	7.85%	2 85%	Hong Kong	5.60%	0.60%
III	France	5.60%	0.60%	Spain	8.30%	3.30%	,	Croatia	8.75%	3.75%	India	8.30%	3.30%
J	Germany	5.00%	0.00%	Sweden	5.00%	0.00%	-	Czech Republic	6.05%	1.05%	Indonesia	8.30%	3.30%
••	Greece	20.00%	15.00%	Switzerland	5.00%	0.00%		Estonia	6.05%	1.05%	Japan	5.90%	0.90%
Ч	Iceland	8.30%	3.30%	Turkey	8.30%	3.30%	•	Georgia	10.40%	5.40%	Korea MM	5.90%	0.90%
No.	Ireland	8.75%	3.75%	United Kingdom	5.60%	0.60%	2	Hungary	8.75%	3.75%	Macao	5.90%	0.90%
Ш	Italy	7.85%	2.85%	Western Europe	6.29%	1296	-	Kazakhstan	7.85%	2.85%	Malaysia	6.80%	1.80%
				13		0		Latvia	7.85%	2.85%	Mauritius	7.40%	2.40%
Canada	<u>.</u>	5.00%	0.00%	Angola	10.40%	5.40%	1	Lithuania	7.40%	2.40%	Mongolia	11.75%	6.75%
United States	of America	5.00%	0.00%	Benin	13.25%	8.25%	20	Macedonia	10.40%	5.40%	Pakistan	16.25%	11.25%
North Americ	ca	5.00%	0.00%	Botswana	6.28%	1.28%	-	Moldova	4 4.75%	9.75%	Papua New Guinea	11.75%	6.75%
Argentina	14.759	6 9.75%		Burkina Faso	13.25%	8.25%		Montenegro	10.40%	5.40%	Philippines	8.30%	3.30%
Belize	18.509	6 13.509	M	Cameroon	13.25%	8.25%		Poland	6.28%	1.28%	Singapore	5.00%	0.00%
Bolivia	10.409	6 5.40%		Cape Verde	13.25%	8.25%		Romania V	8.30%	3.30%	Sri Lanka	11.75%	6.75%
Brazil	7.85%	2.85%		DR Congo	14.75%	9.75%	7	Russia	7.40%	2.40%	Taiwan	5.90%	0.90%
Chile	5.90%	0.90%	2	Egypt	16.25%	11.25%	5	Serbia	11.75%	6.75%	Thailand	7.40%	2.40%
Colombia	8.30%	3.30%	5	Gabon	10.40%	5.40%		Slovakia	0.28%	1.28%	Vietnam /	13.25%	8.25%
Costa Rica	8.30%	3.30%	5	Ghana	11.75%	6.75%	1	Ukraine	16 25%	11 25%	Asia	6.51%	1.51%
Ecuador	16.259	6 11.259	70	Kenya	11.75%	6.75%	3	E Furone & Russia	7 96%	2.96%			
El Salvado	r 10.409	6 5.40%	5	Morocco	8.75%	3.75%			10010	2.70 10			
Guatemala	8.75%	3.75%		Mozambique	11.75%	6.75%	A	bu Dhabi	5.75%	0.75%	Australia	5.00%	0.00%
Honduras	13.259	6 8.25%		Namibia	8.30%	3.30%	Ba	ahrain	7.85%	2.85%	Cook Islands	11.75%	6.75%
Mexico	7.40%	2.40%		Nigeria	10.40%	5.40%	Ist	rael	6.05%	1.05%	New Zealand	5.00%	0.00%
Nicaragua	14.759	6 9.75%		Rep Congo	10.40%	5.40%	Jo	rdan	11.75%	6.75%	Australia & New		
Panama	7.85%	2.85%	5	Rwanda	13.25%	8.25%	Kı	uwait	5.75%	0.75%	Zealand	5.00%	0.00%
Paraguay	10.409	6 5.40%	5	Senegal	11.75%	6.75%	Le	ebanon	11.75%	6.75%			
Peru	7.85%	2.85%		South Africa	7.40%	2.40%	O	man	6.05%	1.05%			
Suriname	10.409	6 5.40%		Tunisia	10.40%	5.40%	Q	atar	5.75%	0.75%			
Uruguav o	wath 8.30%	B30%	à	Uganda	11.75%	6.75%	Sa	udi Arabia	5.90%	0.90%	Black #: Total	ERP	
Venezuela	16.259	6 11.259	70	Zambia	11.75%	6.75%	Uı	nited Arab Emirates	5.75%	0.75%	Red #: Country	y risk pre	emium
Latin Ame	erica 8.62%	3.62%	6	Africa	10.04%	5.04%	Μ	iddle East	6.14%	1.14%	AVG: GDP we	ighted a	verage

One hurdle rate will generally not work across the company

 If you are a single business company, but you are a multinational, your hurdle rate will vary, depending on where you are investing. For instance, if we view L'Oreal as being just in the cosmetics business, which has a beta of 0.97 (adjusted up to 0.99, reflecting L'Oreal's debt), the cost of equity (even in US\$ terms) will vary depending on where the investment is going to be made:

	% of Loreal	Risk free		Beta for	
Region	Revenues	Rate	Regional ERP	cosmetics	Cost of equity
Africa	1.2	2.50%	10.04%	0.99	12.44%
Asia-Pacific	20.6	2.50%	6.51%	0.99	8.94%
Central and South					
America	8.9	2.50%	8.62%	0.99	11.04%
Eastern Europe	7.9	2.50%	7.96%	0.99	10.38%
Middle East	1.2	2.50%	6.14%	0.99	8.58%
North America	25.1	2.50%	5.00%	0.99	7.45%
Western Europe	35.1	2.50%	6.29%	0.99	8.73%
L"Oreal		2.50%	6.40%	0.99	8.84%

A Multi-business Company: Disney & a Question for L'Oreal

	Cost of Cost of		Marginal tax	After-tax cost of	Debt	Cost of
	equity	debt	rate	debt	ratio	capital
Media Networks	9.07%	3.75%	36.10%	2.40%	9.12%	8.46%
Parks & Resorts	7.09%	3.75%	36.10%	2.40%	10.24%	6.61%
Studio						
Entertainment	9.92%	3.75%	36.10%	2.40%	17.16%	8.63%
Consumer Products	9.55%	3.75%	36.10%	2.40%	53.94%	5.69%
Interactive	11.65%	3.75%	36.10%	2.40%	29.11%	8.96%
Disney Operations	8.52%	3.75%	36.10%	2.40%	11.58%	7.81%

Earlier, we looked at L'Oreal's multiple business lines. Do you think that you should be giving them different costs of equity and capital and demanding higher returns in some than others? Lesson 6: Your investments need to earn returns that beat the hurdle rate...

- Your hurdle rate is both a cost of financing your business and an opportunity cost, i.e., a return you can make elsewhere if you invest in a project of equivalent risk. If that is the case, you should only take investments that generate returns that earn more than the hurdle rate.
- To measure returns, though, here are three simple propositions to follow:
 - 1. Look at the cash flows that you will make on the investment, rather than earnings. You cannot spend earnings.
 - 2. Look at incremental cash flows that come out because of the investment. Be wary of allocated costs (that will be there whether you take the investment or not) and ignore sunk costs (costs that you have already incurred).
 - 3. Time weight the cash flows, with cash flows occurring earlier being valued more than cash flows later.

Here is a short cut that you can use to assess the quality of your existing investments...

Adjust EBIT for a. Extraordinary or one-time expenses or income b. Operating leases and R&D c. Cyclicality in earnings (Normalize) d. Acquisition Debris (Goodwill amortization etc.)

ROC =

Book Value of Equity + Book value of debt - Cash

Adjust book equity for 1. Capitalized R&D

2. Acquisition Debris (Goodwill)

Adjust book value of debt for a. Capitalized operating leases

Use end of prior year numbers or average over the year but be consistent in your application

Your best businesses, your worst ones and

where you stand as a company..

		Operating	Operating	Invested		Operating		Cost of	Excess
Business	Revenues	Income	Assets	Capital	Tax Rate	Margin	ROIC	capital	Return
Professional									
Products	2,984 €	610€	3,014€	4,028€	26.41%	15.04%	11.15%	8.65%	2.50%
Consumer Products	10,873€	2,167€	6,449€	8,618€	26.41%	14.67%	18.50%	8.65%	9.85%
L'Oreal Lux	5,865€	1,174€	4,383€	5,857€	26.41%	14.73%	14.75%	8.65%	6.10%
Active Cosmetics	1,602€	340€	833€	1,113€	26.41%	15.62%	22.48%	8.65%	13.83%
Cosmetics	21,324 €	4,291€	14,679€	19,616€	26.41%	14.81%	16.10%	8.65%	7.45%
The Body Shop	836€	72 €	1,197€	1,600€	26.41%	6.34%	3.31%	8.65%	-5.34%
Dermatology	826€	117€	1,159€	1,549€	26.41%	10.42%	5.56%	8.65%	-3.09%
Overall Company	22,977€	3,875€	17,634€	23,565€	26.41%	12.41%	12.10%	8.65%	3.45%

Lesson 7: Acquisitions are just big investments and have to meet the same standards..

- An acquisition is just a large-scale project. All of the rules that apply to individual investments apply to acquisitions, as well. For an acquisition to create value, it has to
 - Generate a higher return on capital, after allowing for synergy and control factors, than the cost of capital.
 - Put another way, an acquisition will create value only if the present value of the cash flows on the acquired firm, inclusive of synergy and control benefits, exceeds the cost of the acquisitons
- A divestiture is the reverse of an acquisition, with a cash inflow now (from divesting the assets) followed by cash outflows (i.e., cash flows foregone on the divested asset) in the future. If the present value of the future cash outflows is less than the cash inflow today, the divestiture will increase value.
- □ A fair-price acquisition or divestiture is value neutral.

And of all the ways to create growth, acquisitions rank worst...



Lesson 8: You have only two ways of raising funding for a business...





And here is the trade off....

Advantages of Debt	Disadvantages of debt
1. Tax Benefit : Interest expenses on debt are tax deductible	1. Expected Bankruptcy Cost : The expected cost of going
but cash flows to equity are generally not.	bankrupt is a product of the probability of going bankrupt and
Implication: The higher the marginal tax rate, the greater the	the cost of going bankrupt. The latter includes both direct and
benefits of debt.	indirect costs. The probability of going bankrupt will be
	higher in businesses with more volatile earnings and the cost
	of bankruptcy will also vary across businesses.
	Implication:
	1. Firms with more stable earnings should borrow more, for any
	given level of earnings.
	2. Firms with lower bankruptcy costs should borrow more, for
	any given level of earnings.
2. Added Discipline: Borrowing money may force managers	2. Agency Costs : Actions that benefit equity investors may
to think about the consequences of the investment decisions a	hurt lenders. The greater the potential for this conflict of
little more carefully and reduce bad investments.	interest, the greater the cost borne by the borrower (as higher
Implication: As the separation between managers and	interest rates or more covenants).
stockholders increases, the benefits to using debt will go up.	Implication: Firms where lenders can monitor/ control how
	their money is being used should be able to borrow more than
	firms where this is difficult to do.
	3. Loss of flexibility : Using up available debt capacity today
	will mean that you cannot draw on it in the future. This loss of
	flexibility can be disastrous if funds are needed and access to
	capital is shut off.
	Implication:
	1. Firms that can forecast future funding needs better
	should be able to borrow more.
	2. Firms with better access to capital markets should be
	more willing to borrow more today.

Lesson 9: There is a "right" mix of debt and equity for your business...



Be wary of companies that are too aggressive... and too conservative... in their use of debt...

- □ If you use too little debt (you are too conservative), you are missing the tax benefits from using debt that would have lowered your cost of capital and increased your value as a business.
 - Prime candidates: Mature companies that have large, stable cash flows, face high tax rates and use little or no debt to capitalize themselves.
 - *Fixes: At the minimum, borrow more when funding new projects and pay more dividends. More radically, borrow money and recapitalize.*
- If you use too much debt, your tax benefits may be overwhelmed by the cost of distress and default. Consequently, you have a higher cost of capital and lower value as a business, because you have chosen to borrow too much.
 - Prime candidates: Companies in risky businesses that have other fixed commitments to meet and low or volatile income, while borrowing large amounts.
 - Fixes At the minimum, cut back or stop paying dividends and utilize retained earnings to fund investments. More radically, raise new equity and retire debt.

L'Oreal: Current versus Optimal

Debt Ratio	Beta	Cost of Equity	Bond Rating	Interest rate on debt	Tax Rate	Cost of Debt (after-tax)	WACC	Enterprise Value
0%	0.9701	8.71%	Aaa/AAA	2.90%	33.33%	1.93%	8.71%	\$62,158
3%	0.99	8.84%	Aaa/AAA	2.90%	33.33%	1.93%	8,63%	\$62,954
10%	1.0420	9.17%	Aaa/AAA	2.90%	33.33%	1.93%	8.45%	\$64,913
20%	1.1318	9.74%	Aaa/AAA	2.90%	33.33%	1.93%	8.18%	\$67,925
30%	1.2473	10.48%	A1/A+	3.35%	33.33%	2.23%	8.01%	\$70,066
40%	1.4013	11.47%	A3/A-	3.80%	33.33%	2.53%	7.89%	\$71,541
50%	1.6169	12.85%	Caa/CCC	11.25%	33.33%	7.50%	10.17%	\$50,288
60%	1.9804	15.17%	Caa/CCC	11.25%	30.58%	7.81%	10.76%	\$46,747
70%	2.6776	19.64%	Ca2/CC	12.00%	24.57%	9.05%	12.23%	\$39,676
80%	4.0805	28.62%	C2/C	13.00%	19.85%	10.42%	14.06%	\$33,387
90%	8.1610	54.73%	C2/C	13.00%	17.64%	10.71%	15.11%	\$30,607

Lesson 10: The "right" debt for your firm depends on your firm

- □ The objective in designing debt is to make the cash flows on debt match up as closely as possible with the cash flows that the firm makes on its assets.
- By doing so, we reduce our risk of default, increase debt capacity and increase firm value.



The perfect debt for you is....

□ The perfect financing instrument will

- Have all of the tax advantages of debt
- While preserving the flexibility offered by equity



Lesson 11: Cash is not accumulated by accident, & cash does not belong to the company



FCFE = Potential Dividends = Cash left over after all operating expenses, taxes reinvestment and debt payments have been made.

Not all cash balances are created equal...



35

Lesson 12: The value of your business is a function of these variables...



36



And here is how you can change your value

