

Valuation: Intrinsic value or fundamental value

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	Mcan real returns		return	
Country	Period	Market index (%)	Relatively riskless security (%)	Equit premium
United Kingdom	1900-2005	7.4	1.3	6.1
Japan	1900-2005	9.3	-0.5	9.8
Germany	1900-2005	8.2	-0.9	9.1
France	1900-2005	6.1	-3.2	9.3
Sweden	1900-2005	10.1	2.1	8.0
Australia	1900-2005	9.2	0.7	8.5
Incha	1991-2004	12.6	1.3	11.3

The country risk affects the equity risk premium





















ii. Cost of debt (kd)

Cost of debt Ranked by best practice The company has bonds quoted: Use the yield to maturity The company has a rating but no bond is quoted: Use yield to maturity of identical risk bonds No bonds are quoted and no rating: Interets rate of next loan

- Interest rate of most recent loan
- Estimate a syntetic rating base on Times interest earning
- Average cost of debt

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Rating	1 yr	2 yr	3 yr	5 yr	7 yr	10 yr	30 yr
Aaa/AAA	14	16	27	40	56	68	90
Aa1/AA+	22	30	31	48	64	77	99
Aa2/AA	24	37	39	54	67	80	103
Aa3/AA-	25	39	40	58	71	81	109
A1/A+	43	48	52	65	79	93	117
A2/A	46	51	54	67	81	95	121
A3/A-	50	54	57	72	84	98	124
Baa1/BBB+	62	72	80	92	121	141	170
Baa2/BBB	65	80	88	97	128	151	177
Baa3/BBB-	72	85	90	102	134	159	183
Ba1/BB+	185	195	205	215	235	255	275
Ba2/BB	195	205	215	225	245	265	285
Ba3/BB-	205	215	225	235	255	275	295
B1/B+	265	275	285	315	355	395	445
B2/B	275	285	295	325	365	405	455
B3/B-	285	295	305	335	375	415	465
Caa/CCC+	450	460	470	495	505	515	545
US Treasury Yield	4.74	4.71	4.68	4.63	4.60	4.59	4.56

Pating and	interes	t covo					
For s	e comp						
(market cap < \$ 5 billion)							
	If interest coverage ratio is						
	greater than	≤to	Rating is	Spread is			
	12.5	100000	Aaa/AAA	0.75%			
	9.5	12.499999	Aa2/AA	1.00%			
	7.5	9.499999	A1/A+	1.10%			
	6	7.499999	A2/A	1.25%			
	4.5	5.999999	A3/A-	1.75%			
	4	4.499999	Baa2/BBB	2.25%			
	3.5	3.99999999	Ba1/BB+	3.25%			
	3	3.499999	Ba2/BB	4.25%			
	2.5	2.999999	B1/B+	5.50%			
	2	2.499999	B2/B	6.50%			
	1.5	1.999999	B3/B-	7.50%			
	1.25	1.499999	Caa/CCC	9.00%			
	0.8	1.249999	Ca2/CC	12.00%			
	0.5	0.799999	C2/C	16.00%			
	-100000	0.499999	D2/D	20.00%			
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iii. Cost of prefered equity (kp)



- No growth of dividends:
 - = dividends/Price
- Constant growth of dividens:
 - = (Dividends/Price) + g
- If there are special rights
 - Use the options theory

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3. Methods to estimate terminal value



















iii. APV - Adjusted Present Value







5. More complex cases

More complex cases

- Large variance in the capital structure
- Continuing negative cash flows
- Assets that do not generate cash flows
- Banruptcy risk

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- High correlation with th eeconomic cycle
- Existance of options





Case study:

Valuation of a Company

Steps to conduct the valuation project:

- 1) Industry analysis and competitiveness
- 2) Financial statement analysis
- 3) Assumptions for future
- 4) Forecast of financial statements and cash flow
- 5) Apply a DCF model and estimate intrinsic value
- 6) Develop a sensitivity analysis
- 7) Use relative valuation
- 8) Conclusion

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