## **Stories to Numbers**

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## **The Assumptions**

	Base year	Years 1-5	Years 6-10		After year 10	Link to story
Revenues (a)	3.83285E11	15.00%	85.00%		85.00%	
Operating margin (b)	29.82%	29.82%	10.00%		10.00%	
Tax rate	14.72%	14.72%	14.72%		14.72%	
Reinvestment (c)		Sales to capital ratio =	3.8	RIR=	93.98%	
Return on capital	-25.48%	Marginal ROIC	32.39%		90.44%	
Cost of capital (d)		0.00%	90.44%		90.44%	

#### **The Cash Flows**

	Revenues	Operating Margin	EBIT	EBIT (1-t)	Reinvestment	FCFF
1	344956500000. 00	0.00%	0.00	0.00	- 10086447368.4 2	10086447368.4
2	396699975000. 00	7.00%	26459888332.5 0	22565204449.0 6	13616703947.3 7	8948500501.69
3	456204971250. 00	10.00%	45620497125.0 0	38905524912.1 8	15659209539.4 7	23246315372.7
4	524635716937. 50	10.00%	52463571693.7 5	44741353649.0 0	18008090970.3 9	26733262678.6 1
5	603331074478. 13	10.00%	60333107447.8 1	51452556696.3 5	20709304615.9 5	30743252080.4
6	778297086076. 78	10.00%	77829708607.6 8	66373798138.3 0	46043687262.8 0	20330110875.4
7	111296483308 9.80	10.00%	111296483308. 98	94914531337.7 6	88070459740.2 7	6844071597.50
8	174735478795 0.98	10.00%	174735478795. 10	149015814200. 29	166944724963. 47	- 17928910763.1 8
9	298797668739 6.18	10.00%	298797668739. 62	254817042282. 50	326479447222. 42	- 71662404939.9 2
10	552775687168 2.93	10.00%	552775687168. 29	471411528222. 62	668363206391. 25	- 196951678168. 63
Terminal year	102263502126 13.42	10.00%	102263502126 1.34	872111327211. 84	819653503018. 65	52457824193.1 9

## The Value

Terminal value	964298238845.47	
PV(Terminal value)	118415823730.22	
PV (CF over next 10 years)	73054313087.32	
Value of operating assets	191470136817.55	
Adjustment for distress	0.00	Probability of failure =0.00
- Debt & Mnority Interests	-62146000000.00	
+ Cash & Other Non-operating assets	29965000000.00	
Value of equity	283581136817.55	De la companya de la
- Value of equity options	0.00	
Number of shares	15550061000.00	

# Input sheet

Date of valuation	102
Company name	

## Numbers from your base year below (in consistent units)

	This year
Country	
Industry	
Industry (Global)	G'A
Revenues	3.83285E11
Operating income or EBIT	1.14301E11
Interest expense	0.0
Book value of equity	-2.90437E11
Book value of debt	-6.2146E10
Do you have R&D expenses to capitalize?	no
Do you have operating lease commitments?	no
Cash and Marketable Securities	2.9965E10
Cross holdings and other non-operating assets	0.0
Minority interests	0.0
Number of shares outstanding =	1.5550061E10
Current stock price =	182.37
Effective tax rate =	14.72%
Marginal tax rate =	0.00%

#### The value drivers

Revenue growth rate for next year	-10.00%
Operating Margin for next year	0.00%
Compounded annual revenue growth rate - years 2-5 =	15.00%
Target pre-tax operating margin (EBIT as % of sales in year 10) =	10.00%
Year of convergence	3.0
Sales to capital ratio (for computing reinvestment) =	3.8

#### **Market numbers**

Riskfree rate	85.00%
Riskfree rate	0.00%

## Other inputs

Do you have employee options outstanding?	no
Number of options outstanding =	0.0

Average strike price =	0.0
Average maturity =	0.0
Standard deviation on stock price =	0.00%

## Default assumptions.

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In stable growth, I will assume that your firm will have a cost of capital similar to that of typical mature companies (riskfree rate + 4.5%)	
Do you want to override this assumption	no
If yes, enter the cost of capital after year 10 =	0.00%
I will assume that your firm will earn a return on capital equal to its cost of capital after year 10. I am assuming that whatever competitive advantages you have today will fade over time.	
Do you want to override this assumption	no
If yes, enter the return on capital you expect after year 10	0.00%
I will assume that your firm has no chance of failure over the foreseeable future.	
Do you want to override this assumption	no
If yes, enter the probability of failure =	0.00%
What do you want to tie your proceeds in failure to?	В
Enter the distress proceeds as percentage of book or fair value	0.00%
I will assume that your effective tax rate will adjust to your marginal tax rate by your terminal year. If you override this assumption, I will leave the tax rate at your effective tax rate.	Di
Do you want to override this assumption	no
will assume that you have no losses carried forward from prior years ( NOL) coming into the valuation. If you have a money losing company, you may want to override tis.	
Do you want to override this assumption	no
If yes, enter the NOL that you are carrying over into year 1	0.0
I will asssume that today's risk free rate will prevail in perpetuity. If you override this assumption, I will change the riskfree rate after year 10.	
Do you want to override this assumption	no
If yes, enter the riskfree rate after year 10	0.00%
I will assume that the growth rate in perpetuity will be equal to the risk free rate. This allows for both valuation consistency and prevents "impossible"	
growth rates.	
	no
growth rates.	no 0.00%
growth rates.  Do you want to override this assumption	
Do you want to override this assumption  If yes, enter the growth rate in perpetuity  I have assumed that none of the cash is trapped (in foreign countries) and that there is no additional tax liability coming due and that cash is a neutral	
Do you want to override this assumption  If yes, enter the growth rate in perpetuity  I have assumed that none of the cash is trapped (in foreign countries) and that there is no additional tax liability coming due and that cash is a neutral asset.	0.00%

# Valuation output

	Revenue growth rate	Revenues	EBIT (Operating) margin	EBIT (Operating income)	Tax rate
Base year	0.00%	383285000000.00	29.82%	114301000000.00	14.72%

1	-10.00%	344956500000.00	0.00%	0.00	14.72%
2	15.00%	396699975000.00	6.67%	26459888332.50	14.72%
3	15.00%	456204971250.00	10.00%	45620497125.00	14.72%
4	15.00%	524635716937.50	10.00%	52463571693.75	14.72%
5	15.00%	603331074478.13	10.00%	60333107447.81	14.72%
6	29.00%	778297086076.78	10.00%	77829708607.68	14.72%
7	43.00%	1112964833089.80	10.00%	111296483308.98	14.72%
8	57.00%	1747354787950.98	10.00%	174735478795.10	14.72%
9	71.00%	2987976687396.18	10.00%	298797668739.62	14.72%
10	85.00%	5527756871682.93	10.00%	552775687168.29	14.72%
Terminal year	85.00%	10226350212613.4	10.00%	1022635021261.34	14.72%

	EBIT(1-t)	- Reinvestment	FCFF	NOL	Cost of capital
Base year	97476807208.00	0.00	0.00	0.00	0.00%
1	0.00	-10086447368.42	10086447368.42	0.00	0.00%
2	22565204449.06	13616703947.37	8948500501.69	0.00	0.00%
3	38905524912.18	15659209539.47	23246315372.70	0.00	0.00%
4	44741353649.00	18008090970.39	26733262678.61	0.00	0.00%
5	51452556696.35	20709304615.95	30743252080.40	0.00	0.00%
6	66373798138.30	46043687262.80	20330110875.49	0.00	18.09%
7	94914531337.76	88070459740.27	6844071597.50	0.00	36.18%
8	149015814200.29	166944724963.47	-17928910763.18	0.00	54.27%
9	254817042282.50	326479447222.42	-71662404939.92	0.00	72.36%
10	471411528222.62	668363206391.25	-196951678168.63	0.00	90.45%
Terminal year	872111327211.84	819653503018.65	52457824193.19	0.00	90.44%

	Cumulated discount factor	PV(FCFF)	Sales to capital ratio	Invested capital	ROIC
Base year	0.0	0.00	0.0	-382548000000.00	-25.48%
1	1.0	10086447368.42	3.8	-392634447368.42	0.00%
2	1.0	8948500501.69	3.8	-379017743421.05	-5.95%
3	1.0	23246315372.70	3.8	-363358533881.58	-10.71%
4	1.0	26733262678.61	3.8	-345350442911.18	-12.96%
5	1.0	30743252080.40	3.8	-324641138295.23	-15.85%
6	0.8468	17215537889.37	3.8	-278597451032.43	-23.82%
7	0.6218	4255643719.32	3.8	-190526991292.16	-49.82%
8	0.4031	-7227143928.64	3.8	-23582266328.69	-631.90%
9	0.2339	-16761836515.45	3.8	302897180893.73	84.13%
10	0.1228	-24185666079.11	3.8	971260387284.98	48.54%
Terminal year					0.9044

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52457824193.19		
90.44%		
964298238845.47		
118415823730.22		
73054313087.32		
191470136817.55		
0.00%		
0.00		

Value of operating assets =	191470136817.55		
- Debt	-62146000000.00		
- Minority interests	0.00		
+ Cash	29965000000.00		
+ Non-operating assets	0.00		
Value of equity	283581136817.55		
- Value of options	0.00		
Value of equity in common stock	283581136817.55		
Number of shares	15550061000.00		
Estimated value /share	18.24		
Price	182.37		
Price as % of value	1000.02%		

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