# Valuation in 30 minutes, give or take a few...

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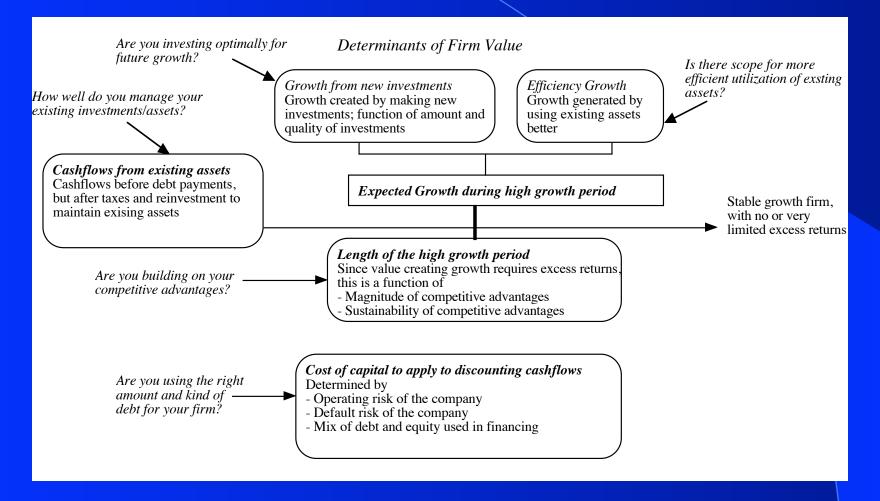
# DCF Choices: Equity Valuation versus Firm Valuation

Firm Valuation: Value the entire business

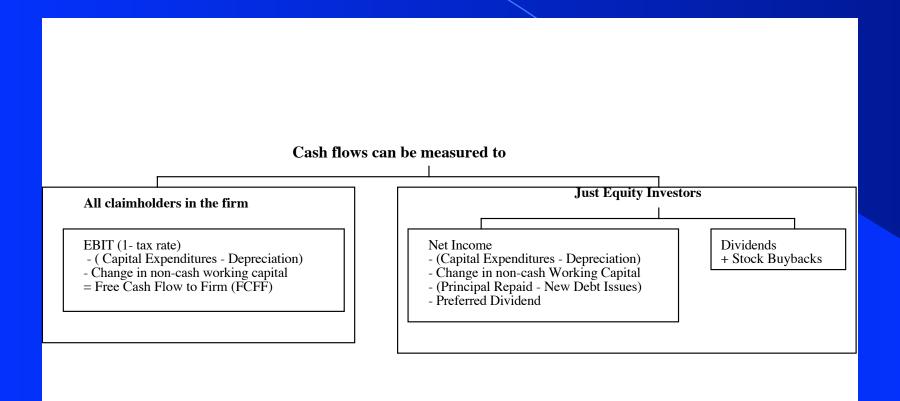
Assets		Liabilities	
Existing Investments Generate cashflows today Includes long lived (fixed) and short-lived(working capital) assets	Assets in Place	Debt	Fixed Claim on cash flows Little or No role in management Fixed Maturity Tax Deductible
Expected Value that will be created by future investments	Growth Assets	Equity	Residual Claim on cash flows Significant Role in management Perpetual Lives

Equity valuation: Value just the equity claim in the business

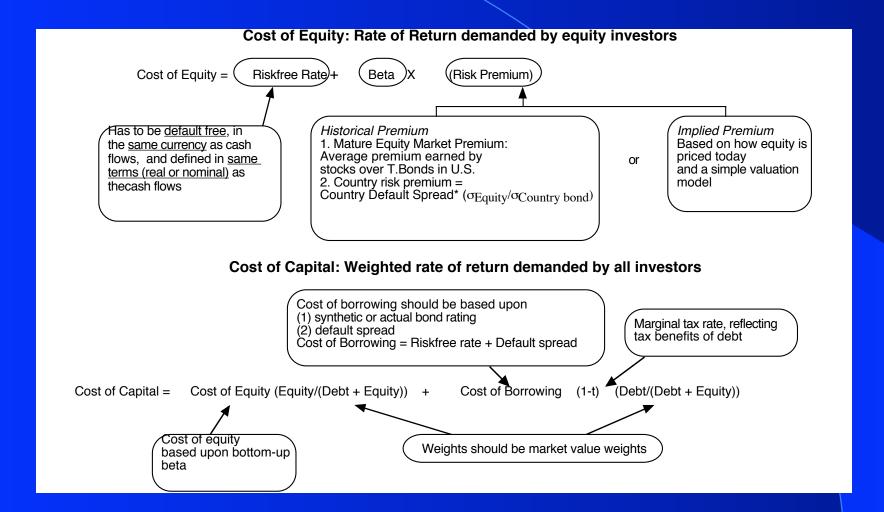
## More generally... The value of any business is a function of..



### Estimating cash flows to a business

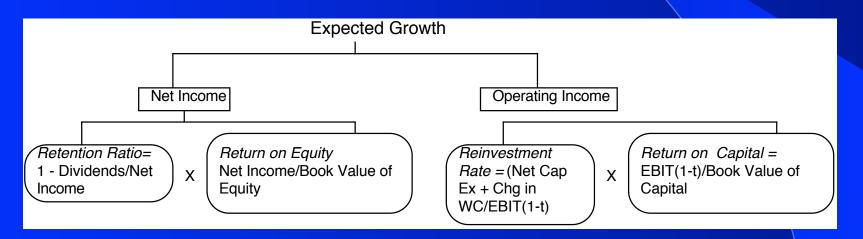


#### And discount rates...



### Where does growth come from?

- To grow, a company has to reinvest. How much it will have to reinvest depends in large part on how fast it wants to grow and what type of return it expects to earn on the reinvestment.
  - Reinvestment rate = Growth Rate/ Return on Capital



# All good things come to an end... stable growth and beyond..

- No matter how great a company's products and management are, two forces operate to drag the company's growth rate down towards the growth rate of the economy. The first is scale. As companies grow, they get larger, and as they get larger, it becomes more difficult to grow. The second is competition.
- Both forces also operate to pull down the return on capital for a company towards its cost of capital. Mature companies earn much lower returns on capital, relative to their cost of capital.
- From a mechanical standpoint, this effectively allows us to stop estimating cash flows at some point and estimate a terminal value, by assuming that cash flows will grow at a constant rate forever beyond that point. The "mature" company that we visualize should have a mature company's cost of capital and a mature company's return on capital.

### Closing Thoughts on Valuation

- Valuation is simple. We choose to make it complex.
- The biggest enemies of good valuations are biases and preconceptions that you bring into the valuations.
- You cannot value equity precisely. Be ready to be wrong and do not take it personally.
- Making a model bigger will not necessarily make it better.