



Outcome 3.2 Historical market betas



- Boeing Company (BA) is one of the largest aerospace and defense companies in the world and has been listed on the NYSE for decades
- You are interested in calculating a value for BA's common stock, as at the end of 2000, for which you require a discount rate
- Assume the risk-free rate is 5% and the equity premium is 5.5%
- The stock price as at the end of 2000 is US\$66.00 and the current annual dividend is US\$0.56
- · Calculate the required rate of return for BA.

3.3

Historical market betas



To solve this problem we need to:

- Download BA monthly prices and dividends (There are 100+ data items to 2000)
- Download S&P 500 adjusted monthly values
- · Calculate monthly total returns for BA and the S&P

$$\begin{split} R_{BA,m} &= \left(P_{BA,m} - P_{BA,m-1} \right) / P_{BA,m-1} \\ R_{S\&P,m} &= \left(I_{S\&P,m} - I_{S\&P,m-1} \right) / I_{S\&P,m-1} \end{split}$$

 Run a regression in Excel (Tools – Data Analysis – Regression)

& Finance based on Pinto, et al (2010).

3.4





























