



Market Risk Premium

Graham Partington

Session 3: 17 February 9.30 to 12.30pm



Historic Market Return Estimates of MRP

- ▶ The default method : Data is observable, objective and transparent
 - ▶ Assumes history repeats
 - ▶ Lots of history required to lower the SE.
 - ▶ Measured across many tax systems (e.g., no corporate tax), crises, structurally different economy, data reliability at long horizons?
 - ▶ Can't capture MRP changes over the averaging period
 - ▶ On average, history more likely to be an overestimate than an underestimate
- ▶ Not perfect but still the best option.
 - ▶ No reliable alternative to track MRP changes.

Alternative MRP info: DGMs and the Implied Cost of Equity

► Pro

- Well developed theoretical model.
- Has some current use in estimating the market risk premium.
- Depending on the version of the DGM application can be transparent.

► Con

- Substantial upward bias in estimates
 - Analysts forecasts of earnings and dividends are upward biased and subject to sluggish adjustment.
 - Cash flow to investors is given by net dividends = Dividend less DRP participation less other equity capital raisings plus repurchases.
 - All substantial relative to dividends so more bias (upwards) from just using dividends
- Substantial variation in estimates: say 6%.
- Problems with sticky dividends
 - MRP estimates worst when markets move most
 - No surprise to find inverse relation between interest rate and (mis)implied cost of equity



Still not walking alone

Officer and Bishop (2008) in a submission from networks and pipelines, argue against the use of the DGM to compute the MRP commenting on Bloomberg's DGM estimates state P15:

“There is, in our view insufficient confidence in the precision of the MRPs derived by the forward looking approach to warrant a move from the historical average approach.” and they cite other work that comes to the same conclusion about the DGM.



Inverse relation between the interest rate and the MRP

- ▶ Wright approach: return on market constant
 - ▶ One for one offsetting moves in interest rate and MRP
 - ▶ Implies prices don't respond to interest rate since discount rate unchanged
 - ▶ Fundamentally implausible
 - ▶ Are central banks substantially wasting their time?
 - ▶ Generally agreed, even by Wright, that it is not 1 for 1.
- ▶ So what is it?
 - ▶ My recollection of evidence: Empirics for both inverse relation and positive relation and regime shifts/no relation.
 - ▶ No consistent reliable evidence for the direction of the relation let alone the magnitude.