

CROSS-SECTIONAL VARIATION IN THE EARNINGS RESPONSE COEFFICIENT: CURRENT EVIDENCE FROM S&P500 COMPANIES

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BASICS

- The earnings response coefficient is the sensitivity of stock prices to earnings news
- It can be calculated from firm specific regressions or pooled crosssectional regressions
- $CAR_{it} = a + bUE_{it} + e_{it}$
- CAR is a stocks abnormal returns for an announcement period and UE is the firms unexpected earnings

METHODOLOGY

- I use the cross sectional regression methodology
- Unexpected earnings are the difference between the firms' earnings forecast and actual earnings. For additional checks I also scale the difference by the absolute value of the forecasted EPS
- Abnormal returns are calculated using the CAPM. In addition I use the simple difference of stock returns and market returns
- CARs are calculated using a three day time window centered around the announcement day
- The ERC is than calculated for the cross section of S&P 500 companies

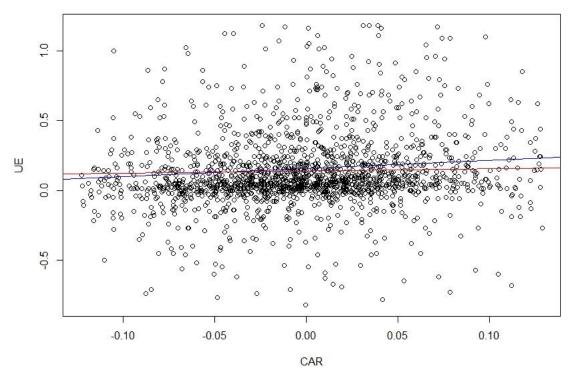
RESULTS

- The ERC in the complete dataset is 0.0259
- The table below displays the ERC for the cross section of S&P 500 companies
- Literature suggests a negative relation between leverage and ERC as well as risk and ERC. My results do not exactly agree with that

ERC	0.2	0.4	0.6	0.8	0.99
Leverage	0.0169	0.0309	0.0362	0.0359	0.0047
Size (Total Assets)	0.0288	0.0166	0.0199	0.0335	0.0224
Risk (Beta)	0.0163	0.0233	0.0384	0.0281	0.0241

RESULTS

- The graph displays the relation between CAR an unexpected earnings
- The blue line is a regression based on firms in the lowest leverage quantile, the red one is based on highly leveraged firms



LIMITATIONS

- Theoretically the ERC is based on the assumption that earnings predict future dividends. However, I use accounting earnings which measure the firm's dividend paying ability with error
- The forecasted earnings are based on analyst estimations and might not reflect market expectations
- The results presented in this presentation are based on unscaled unexpected earnings
- I use an ex post measure for expected returns