Earnings Uncertainty and Attention A discussion

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Relationship between earnings uncertainty and attention Objective and analysis

- How do investors allocate attention between firms with different uncertainty in earnings?
- Hypothesis: Investors allocate more attention to firms with high earnings uncertainty.
- Measures of earnings uncertainty: Ratio of uncertain words to total words in 10-K/10-Q filings of US firms between 1995 and 2018 and historical earnings volatility.
- Measure of attention: Google search for a key word scaled by its time series average.
- Regress abnormal search volume during the earnings week on earnings uncertainty measures.

Relationship between earnings uncertainty and attention

- Firms with high ex-ante earnings uncertainty experience higher Google search activity around earnings release.
- Investors seek more information about high earnings uncertainty firms.

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Minor Comments oo•oo Relationship between attention and return volatility

- What is the effect of higher attention on return volatility?
- Hypothesis: There is an increase in volatility when investors pay more attention to earnings.
- Measure of volatility: Sum of squared daily returns in the month of earnings release.
- Measure of earnings uncertainty/volatility: Standard deviation of quarterly income scaled by total assets, of previous 8 quarters.
- Regress return volatility on measures of earnings uncertainty.



Objective and analysis

Relationship between attention and return volatility Result

- Strong association between earnings uncertainty and stock return volatility during earnings release.
- Attention is the channel through which uncertainty about future cash flows increases return volatility.
- Also looks at effect on trading volumes and under-reaction of prices to earnings surprises when investors pay more attention to high uncertainty firms.

(a) Earnings uncertainty \rightarrow (b) Investor attention \rightarrow (c) Return volatility

- (a) \rightarrow (c): Loughran and McDonald (2011)
- (b) \rightarrow (c): Andrei and Hasler (2014)
- Kottimukkalur (2019): Ties all 3 together and shows that uncertain language can capture earnings uncertainty better than historical earnings volatility.

- A lot of the 'attention' will be due to exposure.
- Counting the number of searches for specific firms. The number of investors searching would be larger for:
 - Big companies (e.g. Walmart, Apple, Amazon)
 - 2 Companies with more dispersed shareholding
- Size and ownership concentration would affect the headcounts of who pays attention.

Capturing investor attention-II

- There can be two types of investors paying attention to firms.
 - Those with exposure will want to devote attention to the most unncertain and volatile stocks
 - 2 Those with zero exposure and interested in placing bets will pay attention to firms which have high uncertainty, high volatility in a high liquidity environment.

Minor Comments

- Link between uncertainty, attention and return volatility.
- Analysis finds a positive association between uncertainty-attention and between uncertainty-returns volatility.
- 'Attention' is missing in the second link.
- High earnings uncertainty firms exhibit greater stock returns volatility. Is this because of greater investor attention or something else?

Effect on returns volatility

- Regression of stock returns volatility on measures of earnings uncertainty (earnings vol, fraction of uncertain words etc).
- Earnings surprise, and the volatility of earnings surprise generate stock returns volatility.
- Use the 'surprise' component in the regression instead of earnings volatility.
- How will fraction of uncertain words fit here?

Miscellaneous

- · Distinguish between calm and stress periods in the market
- Attention to what exactly?
- Theoretical model in appendix?

Can we do this for India?

- Are there similar annual or quarterly filings by listed companies that can be analysed?
- Do we know earnings release dates of all listed companies?
- The same list of 'uncertain' words can be used from the Loughran and McDonald (2011) paper.
- We should explore the feasibility of this kind of work for India.