

Discussion: Industry-specific effects of geopolitical risk on the volatility of the Johannesburg Stock Exchange: A GARCH-MIDAS approach

**Finstab Research Symposium: Maintaining financial
stability amid global volatility and uncertainty**

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Purpose

- A focus on the effect of geopolitical risk (GPR) on the volatility of industry returns in the Johannesburg Stock Exchange (JSE)
- Particularly, industry-specific effects for 9 sector indexes (e.g. financials, health, industrials, etc.)
- Using the popular Caldara and Iacoviello (2022) GPR index
- Applied GARCH-MIDAS (mixed data frequency) approach
- Briefly, the paper aims to understand how GPR shocks affect the volatility of industry returns

Key findings

- Finding 1: Confirmed a industry effect
- Finding 2: Only the healthcare index showed a higher return volatility due to GPR shocks
- Finding 3: The rest demonstrated lower volatility response
- Finding 4: Similar global and local GPR effects

Comment 1: Strengths

- Well presented paper
- Consideration of the literature
- Careful implementation of the GARCH-MIDAS approach
(not common)

Comment 2: Centrality of investor behaviour

- Why study industry effect in the first place?
 - We expect investors to **react** differently to GPR shocks across industries
- What does it mean for investors to react differently?
 - It means that investors can overreact to information (De Bondt and Thaler 1985)
 - It means that investors substitute private information for market information (Devenow and Welch 1996)
 - It means that investors may have different risk preferences across industries (Plastun et al. 2020)

Comment 2: Centrality of investor behaviour cont.

- The literature has shown in differentiated industry impact in other areas (for example, Sibande et al. 2024)
- Lastly the debate on the literature as to the centrality of investor behaviour of investor behaviour is largely settled (Fakhry 2016)
- The paper does not take a clear stand on the investor behaviour aspect
 - It is not clear why the healthcare index is more affected by GPR shocks
 - It is not clear why the other industries are less affected

Comment 3: Volatility is difficult to explain

- Volatility is difficult to explain because it is non-linear
- More returns volatility is not necessarily better or worse (not necessarily indicative of crises)
- Markets have become more **efficient** over time (Plastun et al. 2019)
- In addition the concept of GPR can be difficult to pin down (e.g. wars, elections, etc.)
- For robustness, the paper could have considered other measures of GPR or specific events (crises periods)
- Therefore, difficult to draw policy conclusions

Comment 4: Understanding volatility is important for financial stability

- However, understanding the drivers of volatility is important for financial stability
- It can be helpful to first understand the effect of returns volatility on real economic variables, for example employment (Sibande, Gupta, and Wohar 2019)
- Then from the decomposition of volatility, short and long term policy implications can be drawn
- That is, in addition, the paper could have considered the effect of GPR shocks on real economic variables

Conclusion

Great paper - beneficial area of work for EMs!

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