

Solid Earth Discuss., referee comment RC2
<https://doi.org/10.5194/se-2021-32-RC2>, 2021
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Comment on se-2021-32

Anonymous Referee #2

Referee comment on "Imaging crustal structures through a passive seismic imaging approach in a mining area in Saxony, Germany" by Hossein Hassani et al., Solid Earth Discuss., <https://doi.org/10.5194/se-2021-32-RC2>, 2021

Dear Author/s,

In my opinion, the presented article showcases a novel approach in depth imaging using passive data. I was fascinated by the fact that seismic network primarily designed only for detecting earthquakes when combined with advanced depth imaging techniques can delineate geological structures at crustal scale. The approach provides a new insight on how the passive data from such networks can be used to image large scale feature and can complement other methods/results.

Although the article consisted of a strong technical approach towards the problem, I found it difficult to convince based on the results being presented. Due to lack of comparison with other standard imaging approach and existing results present for the area, I put my opinion as for "major revision". More specific details can be found on the attached PDF file.

I hope you will process my comments in a constructive and it will help you in rectifying your article.

Yours' sincerely,

Referee-2

Please also note the supplement to this comment:

<https://se.copernicus.org/preprints/se-2021-32/se-2021-32-RC2-supplement.pdf>