

## ***Interactive comment on “LABS: an agent-based run-out program for shallow landslides” by Richard Guthrie and Andrew Befus***

### **Anonymous Referee #2**

Received and published: 26 November 2020

Dear authors,

congratulation to development of interesting modelling tool which I think will be very useful for hazard assessment of very dangerous landslide types. Before publishing your manuscript, there are several issues which need to be addressed. Please refer to the uploaded pdf file with my specific comments.

In general, there is serious issue with respect to quantitative assessment of reliability of the modeling results in terms of calculated landslide volumes, depths and their run-out limits. All of these parameters are very useful and can be applied for practical hazard assessment, but the user needs to know how reliable the model outputs are. This is so far characterized mostly by qualitative, general statements.

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I also see serious problem with respect to maps you presented in the manuscript. The maps you show lack legends and geographic coordinates, which needs to be added to allow the user to get all information they show.

Please also note the supplement to this comment:

<https://nhess.copernicus.org/preprints/nhess-2020-233/nhess-2020-233-RC2-supplement.pdf>

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2020-233>, 2020.

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