

## ***Interactive comment on “Topographic uncertainty quantification for flow-like landslide models via stochastic simulations” by Hu Zhao and Julia Kowalski***

### **Anonymous Referee #1**

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The authors attempt to estimate the DEM uncertainty through stochastic simulation, and access the impacts of topographic uncertainty on simulation-based landslide run-out analyses. The subject is likely to be able to attract a broad range of the engineers and geoscientists. Overall, the article is well organized and scientifically sounds, in general. However, the 5m and 2m DTM datasets used in this study may not be the best choice. More detailed, high-accurate DTMs are recommend, such as free access Airborne LiDAR, even though the main findings by the authors may not been affected. Some minor issue listed as follows: 1. The influences/effects of elevation, slope, aspect. . ., should be clarified. 2. Table 1 is not easily to read or understand, if the manuscript is not well followed. 3. Line 218, figure 4 appeared before all the other

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figures in manuscript. 4. In fig 9, the figure caption is not proper. The main findings should be noted in manuscript.

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