

# ***Interactive comment on “From examination of natural events a proposal for risk mitigation of lahars by a cellular automata methodology: a case study for Vascún valley, Ecuador” by Valeria Lupiano et al.***

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The paper demonstrates how the Cellular Automata based model can be applied to simulate the phenomenon of lahars. Such investigations are very important from the point of people safety because it allows to assess the risks related to this phenomena. The authors of this paper are members of the team that for years develop models of surface flow using the Cellular Automata methodology. In this paper, the new model is also presented with high quality. It demonstrates that authors have a deep understanding of modeled phenomena. The definition of the model is followed by its application

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in scenarios reflecting potentially real situations. The results are presented and thoroughly discussed. In my opinion, this paper can be accepted and published as is.

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