

Interactive comment on “Estimation of the susceptibility of a road network to shallow landslides with the integration of the sediment connectivity” by Massimiliano Bordoni et al.

Anonymous Referee #2

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Dear Editor, The paper “Estimation of the susceptibility of a road network to shallow landslides with the integration of the sediment connectivity” by Bordoni et al. present an interesting study case for landslide susceptibility applied to roads in a small area of north Apennines, Italy. One of the main contribution (as the authors state in the title) is the integration of sediment connectivity in the statistical model, using different land use scenarios. From my point of view, the quality of the paper, the method used, the results and the discussion make the paper suitable for publication in NHSS journal. I suggest some highlights of this kind of studies in the introduction, discussions and conclusion parts of the paper. In my opinion, some minor issues must be solved before the publication: (i) please provide more details in “the study area” section about the

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method used for land use mapping; also, you can move here some information about landslide inventory - data acquisition; (ii) the discussion part must rewrite, at least the first 4 paragraphs; (iii) please change the Fig. 9, in order to make it representative according to the associated legend; and (iv) try to find other color for the roads (at least in the Figures 1, 3, and 9) for increasing the contrast and readability of the map. Other minor problems you will find in the *.pdf file attached.

Please also note the supplement to this comment:

<https://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2017-457/nhess-2017-457-RC2-supplement.pdf>

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2017-457>, 2018.

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