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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "A multi-scale approach to cost/benefit analyses of landslide prevention vs. post-event actions" *by* G. Salbego et al.

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As reported in our reply to Referee #1, in our paper we would show which could be the contribute of investigations at different scales. Our results, as reported in the section 3 of the paper and in the concluding remarks, show the usefulness of susceptibility evaluation in the case of extreme events which involve wide areas and the very limited possibility to predict instability phenomena at the local scale. In the case of the rainfall event that hit the Vicenza Province in the 2010, we observed that susceptibility analysis could predict the most affected and damaged areas, but a more detailed analysis (at the slope scale) is needed to perform preventive measures. We would like to preserve the current structure of the paper because, in our opinion, results from multi-scale

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analysis could drive Authorities to a correct landslide prevention. Small scale analysis is a very low cost task which can be easily performed by technicians of local Authorities and can be considered as a preliminary step to identify most vulnerable areas and to support decisions on priority actions. Following your comments, in the final version of the paper we'll try to better clarify the above observations and the contribute of small scale studies in cost/benefit analyses of preventive actions. Finally, as requested by you and Referee #1, we'll provide further details on the susceptibility assessment procedure. We'll insert in table 1 a more detailed report of the results of the analysis, providing the reader with more information about the method and the classes in which was subdivided each conditioning factor. A more detailed explanation of the results from table 1 will be inserted in the final version of the paper.

Thank you for your constructive suggestions.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 1329, 2015.