



Interactive  
Comment

## ***Interactive comment on “Continental Portuguese Territory Flood Social Susceptibility Index” by N. Grosso et al.***

### **Anonymous Referee #1**

Received and published: 5 February 2015

The manuscript presents an approach for evaluating the potential impact of flood events, looking at social key indicators. The impacts are basically socials and estimated in terms of susceptibility. The proposed approach is based on principal component analysis and on spatial multi criteria analysis, in particular analytical hierarchical process. Overall, I think that social impact constitutes an important issue related to flood hazard, however this manuscript has some critical points, which deserve of being addressed:

1. The methodology is applied to hypothetical scenarios without a real validation, this prevents from understanding how effective is the approach and its results. 2. The description of results and discussion is not clear, I suggest to better summarize the results, in order to have a clear overview on the outcome of the methodology. 3. The

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Authors should better address if and how their methodology may be generalized to other social scenarios, or if it is suitable just for Portuguese society. 4. The paragraph on the study area should be summarized, while some more details about the dataset, together with some statistics, should be provided. 5. The English should be proofread by a native speaker.

Given the aforementioned points, I would suggest to return the manuscript to the Authors for a major review.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 7553, 2014.

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