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## ***Interactive comment on “Smartphone applications for communicating avalanche risk information – a review of existing practices” by M. K. M. Charrière and T. A. Bogaard***

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A nice piece of work summarizing the numerous efforts in communicating hazard information to a wider audience; in the case of snow avalanche hazards mostly to a younger group of recreationists being above-average at risk from this hazard type.

As such the work contributes to a better understanding of the topic, but also to the more general (scientific) discussion of using modern telecommunication devices in natural hazard risk management.

I just have some minor remarks, which are listed below:

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- 6922/15: maybe some more words also on the map design would be useful since this has also been extensively studied with respect to other hazard types (Meyer et al. 2012, Fuchs et al. 2009).

- 6925/1: “mountain guides” instead of “mountains guides”, but the text will be anyway proof-read through NHESS typesetting

- 6926/11: Maybe a general statement should be made about the simplification necessary if one compares apps with the standard dissemination of avalanche bulletins such as those from SLF Davos. (also in relation to section 4.4).

In general I also would like to suggest to include a bit more in the discussion section the overall (world-wide) efforts in the development of apps facing natural hazard risk reduction. This would help to tie the presented work into a wider research environment, such as e.g. with respect to the efforts in the insurance business (flood, windstorm, hail).

Just one practical question you may wish to include in the work: Do you want to show in Table 2 - as additional information - also information on the pricing policies of the individual apps? As far as I know the White App is just free for 24 h trial, so what about the others? Did this influence somehow the use pattern?

References mentioned:

Meyer, V.; Kuhlicke, C.; Luther, J.; Fuchs, S.; Priest, S.; Dorner, W.; Serrhini, K.; Pardo, J.; McCarthy, S.; Seidel, J.; Scheuer, S.; Palka, G.; Unnerstall, H. & C. Viavatenne (2012): Recommendations for the user-specific enhancement of flood maps. *Natural Hazards and Earth System Sciences* 12 (5). p. 1701-1716

Fuchs, S.; Spachinger, K.; Dorner, W.; Rochman, J. & K. Serrhini (2009): Evaluating cartographic design in flood risk mapping. *Environmental Hazards* 8 (1). p. 52-70

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