

## ***Interactive comment on “Improving the understanding of flood risk in the Alsatian region by knowledge capitalization: the ORRION participative observatory” by Florie Giacona et al.***

### **Anonymous Referee #1**

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Thank you for this substantial contribution.

I have some general remarks and questions:

Questions:

- 1.) Did you take into account the accumulation of wealth and infrastructure over time and its influence on the statistical results? If yes, did you apply an approach that tried to correct this artefact? Please describe your correction approach. If you did not correct it, please reason why you choose not to correct it.
- 2.) Similiar question as above. Did you take statistically into account the different

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availability of documentary evidence on floods over time and location? If yes, how did you correct this, if no, reason why you choose not to correct it?

- 3.) Does the quality of some of the documentary flood evidence allow to assess the discharge of the pre measurement period flood events? If yes, why did you not assess the discharges? This could help to improve e.g. the design floods of e.g. a 100 year or a 300 year event. You furthermore could quantify the effects of local to transregional river engineering measures and/or the effects of landuse and climate change on the flood magnitudes over time.

Remarks:

I would suggest to not only include pictorial evidence of floods but also (historical) river profiles and to georeference them at the correct location with GIS.

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