

We sincerely thank the editor and reviewers for their valuable feedback and comments during the initial phase of our manuscript review. We have made every effort to incorporate their suggestions into the revised manuscript. Below, we outline the key modifications made in response to the reviewers' comments.

- We supplemented the information related to flood hazard modelling, highlighting key aspects such as the adopted roughness coefficient and calibration process. Additionally, we discussed the chosen digital elevation model resolution (5 meters) and its negligible impact on hazard simulation compared to finer resolutions.
- The Section 2.2.2, Exposure at buildings scale, was reorganised, and additional information, such as an example of the number of floors distribution, was included to enhance the clarity of the applied methodology.
- We included additional information about the timeline of the warning system during the 2021 Ahr Valley event at the beginning of Section 2.2.3, Early warning and evacuation, to enhance the context and understanding of the dynamics and implications of this process in the occurred event.
- In the Results and Discussion section, we briefly explained the factors contributing to the equifinality of the warning and evacuation inputs observed in the life loss simulations.
- In the Discussion of limitations section, we emphasised the sensitivity of the LifeSim model to biases in the hydraulic modelling. Additionally, we included information on the expected public response in the case of an ideal warning based on the survey findings, and we justified the generalisation adopted to represent the warning system.
- Other minor adjustments were made throughout the text, including updates to maps and minor text corrections and rearrangements, to improve flow, coherence, or clarity, as noted by both the reviewers and ourselves.

Best regards,

André, Juian, Heiko and Heidi