

Nat. Hazards Earth Syst. Sci. Discuss., author comment AC1
<https://doi.org/10.5194/nhess-2021-326-AC1>, 2022
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Reply on RC1

Philip J. Ward et al.

Author comment on "Invited perspectives: A research agenda towards disaster risk management pathways in multi-(hazard-)risk assessment" by Philip J. Ward et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2021-326-AC1>, 2022

We thank David Bresch for the time taken to review our manuscript and for the positive feedback and interesting thoughts. We agree that interoperability is a very important issue, especially for developing models and tools within this realm. Within MYRIAD-EU, the "framework" itself is intended to be broader, providing a set of concrete guidelines for designing multi-risk reduction pathways. It is therefore not a model in itself. In the revised manuscript we propose to clarify this point by adding: "The framework will be co-developed within the project between the consortium and our stakeholders in the pilot regions, which will involve an iterative process of framework development, testing, feedback, and updating. The framework is intended to provide a set of practical guidelines for carrying out a multi-(hazard)-risk assessment. We explicitly do not aim to develop a unified method or model for navigating the framework, as it is our conviction that there is no one-size-fits-all model for addressing multi-(hazard)-risk management, and that continuous learning across projects and disciplines is needed to break the silos in which natural hazard risk science operates. Instead, we see the need for a user-friendly web-based dashboard that provides access to a myriad of state-of-the-art multi-(hazard)-risk products and services from across the multi-(hazard)-risk community." We will, as stated in the paper, develop a software package for generating multi-hazard stochastic event sets based on pre-computed inputs in certain formats from either independent hazard models, or through other software packages and existing stochastic hazard models. It is our goal to extend the state-of-art in the multi-hazard sphere, and plan to integrate it with the existing independent hazard solutions already available around the world along the lines of compatibility and interoperability. We propose to add the following sentence to clarify the importance of interoperability, open-access, and so forth: "Such a software package should be open-source and open-access, and allow for interoperability with other software packages, datasets, and models."