

Dear Dr van der Zaag,

Thank you very much for handling our manuscript and for giving us the opportunity to resubmit it with minor revisions. We are grateful to both reviewers for their thoughtful and constructive feedback, which has helped us to improve the manuscript. We have revised the manuscript accordingly, with changes shown in red in the track-changed version, and provide a summary of these modifications below, referencing our detailed responses in the interactive discussion.

- In response to Dr Douven's first and third comments on interdisciplinarity, we have added a paragraph to section 5 about the potential and benefits of using the game in a multi-disciplinary classroom (L 339-345).
- In response to both Dr Douven's and Dr Den Haan's second comments about student feedback, we have carried out an AI-based content analysis on anonymized student comments, which we now present in a new Supplementary Information section. This has identified key themes that we now discuss in the revised conclusion section 6 (L410 ss).
- In response to Dr Den Haan's first comment, we have added a short paragraph in the introduction (L75 ss) specifying the pedagogical nature of the paper.
- In response to Dr Den Haan's 3rd comment, we have added a paragraph in Section 5 (teaching application) with further details on the logistics of the game in a classroom or remote setting (L345 ss)
- Lastly, we address Dr Den Haan's fourth comment by replacing the referenced sentence in the introduction (L81 ss) with the language suggested in our comment response in the interactive discussion to clarify what we mean by playability and accessibility

We hope that these revisions satisfactorily address the reviewers' comments, and we sincerely appreciate the opportunity to submit a revised version. Thank you again for your consideration.

Best regards,

Marc Muller on behalf of all authors