

Review of: "Gamification of the overexploitation of natural resources. An operational game based on System Dynamics"

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Potential competing interests: No potential competing interests to declare.

Thank you for inviting me to review the article entitled “Gamification of the overexploitation of natural resources. An operational game based on System Dynamics”. The paper is interesting. The abstract is of reasonable length. I suggest minor revision and my comments are:

1. Regarding language the following correction should be taken into consideration:

- In the ‘Abstract’ section: Replace (to decision makers) with (decision-makers).
- In the ‘Introduction’ section: Replace (developing game) with (developing a game).
- In the ‘Introduction’ section: Replace (real world) with (real-world).
- In the ‘Introduction’ section: Replace (remains) with (remain).
- In the ‘Introduction’ section: Replace (as a field) with (is a field).
- In the ‘Introduction’ section: Replace (leads to) with (lead).
- In the ‘Introduction’ section: Replace (further increase of) with (a further increase in).
- In the ‘Introduction’ section: Replace (a game a certain) with (a game with a certain).
- In the ‘Introduction’ section: Replace (different structure) with (different structures).
- In the ‘Research background’ section: Replace (fisheries, where it is referred) with (fisheries, which is referred).
- In the ‘Research background’ section: Replace (the name “The Tragedy of the Commons”) with (the name of “The Tragedy of the Commons”).
- In the ‘Research background’ section: Replace (observed for several) with (observed in several).
- In the ‘Modeling Overexploitation’ section: Replace (observed for several) with (observed in several).
- In the ‘Modeling Overexploitation’ section: Replace (systems, for instance the oil) with (systems, for instance, the oil).
- In the ‘Modeling Overexploitation’ section: Replace (Note that the case of the “Oil Game”) with (Note that in the case of the “Oil Game”).
- In the ‘The Learning Tool’ section: Replace (Each is associated to one or more) with (Each is associated with one or more).
- In the ‘The Learning Tool’ section: Replace (the “bell shaped” curve.) with (the “bell-shaped” curve.).
- In the ‘Conclusion’ section: Replace (can simulate the dynamical phenomenon) with (can simulate the dynamic phenomenon).

- In the 'Conclusion' section: Replace (lead to overexploit and destroy natural resources) with (lead to overexploiting and destroying natural resources).
- In the 'Conclusion' section: Replace (understand a basic fact that's well known to modelers) with (understand a basic fact that's well-known to modelers).
- In the 'Appendix' section: Replace (Here is a description of the game turns) with (Here is a description of the game's turns).

1. What is the novelty of the manuscript? It should be clearly clarified in the last paragraph of the introduction.
2. Suggested literature review to be considered in the introduction section:

Sagr, A. M., Ibrahim, M. G., Fujii, M., and Nasr, M., "Sustainable Development Goals (SDGs) Associated with Groundwater Over-Exploitation Vulnerability: Geographic Information System-Based Multi-criteria Decision Analysis," Nat. Resour. Res., vol. 30, no. 6, pp. 4255–4276, 2021, doi: 10.1007/s11053-021-09945-y.