

Review of: "Let the Transformative Anthropocene Be Positive!"

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Potential competing interests: No potential competing interests to declare.

The preprint by Pablo José Francisco Pena Rodríguez and Catarina da Fonseca Lira is quite interesting, well-written, and very timely. It very convincingly emphasizes the importance of developing a transformation strategy for the Anthropocene and finding effective ways to implement it.

At the same time, we would like to point out a few minor shortcomings in the text, which can be easily corrected. The authors consider humans to be an invasive species, i.e., a species that is not native to a given ecosystem. But modern humans create their own ecosystems by surrounding themselves with domesticated plants and animals, rather than invading (with rare exceptions) any natural ecosystems. Then, they write, "The impact of human activity on the Earth's surface is evident in many visible ways. However, there are many other changes that are less obvious - the invisible ones." But it is not quite clear what they mean by "invisible changes." The ones they list next (agriculture, mining, hunting, and industry) look quite visible. I think this contrast between "visible" and "invisible" needs to be clarified. Finally, the authors mention the emergence of antibiotic-resistant bacteria, explaining this by "artificial selection." However, this is not an example of artificial selection, but rather natural selection due to anthropogenic environmental factors, since physicians are not selecting for resistant bacteria. On the contrary, they are trying to combat them. On the other hand, artificial selection is not mentioned in any other context, although it plays a very important role in the process of domestication of various wild species and the creation of agroecosystems as artificial ecosystems. I think this aspect, which prepares the transformation to the Anthropocene, should be emphasized or at least mentioned.

In summary, I would encourage the authors to publish this preprint in a scientific journal, perhaps after expanding it and fixing the above-mentioned problems.

Qeios ID: NDGSKA · https://doi.org/10.32388/NDGSKA