

Dear Reviewer,

The authors of this manuscript are grateful for your efforts in reviewing our paper and providing valuable and constructive comments, all of which have been carefully considered and addressed to the best of our ability. We hope the manuscript, after careful revisions, meets your high standards, and welcome any further constructive feedback you may have.

Below the point-by-point responses are provided, where the line numbers refer to the reviewed version of the manuscript.

Comments from Reviewer 1

- *The authors know very well that "pollution" is not the same as "GHG emissions" but they put together them. It should be always distinguished.*

Response: The authors understand this observation and thank the reviewer for pointing this out. We have rectified this mistake in line 29 of the reviewed manuscript.

- *Nowadays nobody knows what public policy will be provided in Europe (both EU-countries and UK) in next years. It is to expect that the decarbonisation of the individual motorisation will be continued but the tempo of this process can differ in particular years. Due of this fact would be better to show several scenarios regarding the increasing of the share of the electric cars (BEV) of the total number of cars.*

Response: The authors fully agree with the highlighted uncertainty in the global transport policy landscape. This has served as one of the motivations behind the development of this methodology, which will enable policymakers to understand the quantified and distributed economic impacts different regional policies could have.

To demonstrate the potential results of this approach we wanted to use different policies, including vehicle electrification and modal shift, to provide the readers of this publication with numerous illustrative applications. Nevertheless, we do acknowledge the need for further and more in-depth research on vehicle electrification and have now added that in lines 585 to 589.

We look forward to hearing from you regarding our submission and to responding to any further questions and comments you may have.

Sincerely,

The authors: Rita Prior Filipe, Prof Andrew Heath and Dr Nick McCullen.