

## ***Interactive comment on “A mobile sensor network to map carbon dioxide emissions in urban environments” by Joseph K. Lee et al.***

### **Anonymous Referee #2**

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Review of Lee et al. “A mobile sensor network to map CO<sub>2</sub> emissions in urban environments” The paper presents a detailed methodology for measuring spatial CO<sub>2</sub> emission in an urban landscape using low-cost sensor system deployed on vehicles in urban areas. Methodology for the estimation of CO<sub>2</sub> fluxes from urban areas is compared with EC approaches measured using a traditional flux tower over Vancouver. This is a very detailed description of the approach and the validation against established methods and one can see the extreme usability of such a system. The paper is well within the remit of amt and the authors have a novel approach. This type of work is needed to address the major challenges of addressing the study of the urban atmosphere, not least its spatial heterogeneity. The authors discuss the various advantages and disadvantages of their approach. I am very happy at the level detail shown by the authors especial with the design and construction of the DIYCO<sub>2</sub> system. I would

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suggest the authors put the appendix in the supplementary information section of the article.

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