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Comment

## ***Interactive comment on “Introduction: The Pan-Eurasian Experiment (PEEX) – multi-disciplinary, multi-scale and multi-component research and capacity building initiative” by M. Kulmala et al.***

### **Anonymous Referee #2**

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The manuscript Introduction: The Pan-Eurasian Experiment (PEEX) – multi-disciplinary, multi-scale and multi-component research and capacity building initiative is as stated an Introduction to a scientific research initiative of large scale and impact. As such it can be seen differently in terms of the current evaluation namely not assessed at this stage with respect to the results but the potential and the design of the initiative. Having this in mind the manuscript provides well thought documentation of the means in terms of human and infrastructure capacity it encompasses in order to solve the knowledge gaps and challenges it is designed to tackle. Some specific corrections

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and suggestion are given below for the revision of the manuscript. Section 2 P 22753, Line 22 instead of “processs understanding” better use understanding of processes

P22754 line 10 instead of health use —human health or public health

P22577 line 10 Measurements of the changes. . . . . This is too general Provide a paragraph explaining what some of these main measurements are (i.e hygroscopicity, cloud formation potential etc) and the techniques to achieve it

P22578 line 21 “. . .long term continuation of advanced measurements os aerosols, clouds, GHGS, trace gases” Again provide a description of what these advance measurements are envisaged to be and what is here considered advanced. Maybe state of the art is adequate, provide some references of the type of measurements techniques implied

P22580 lines from 10-20 A suite of models is mentioned with a general description. It would be helpful for the reader to have one representative reference of each type of model or modeling system

P22582 line 25 “ these interlinks are mainly very nonlinear” Instead of mainly probably is best to use often or in most cases

P22583 line 23 Section 4 Title For this title since it is the concluding section is best to use: Summary and outlook of PEEX in the future society

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Interactive comment on Atmos. Chem. Phys. Discuss., 15, 22567, 2015.

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