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THE NEED FOR A HARMONISATION OF PREDICTION MODELS FOR RAILWAY NOISE

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ABSTRACT

The European Commission is preparing a directive relating to the assessment and reduction of environmental noise exposure. The directive aims among others at the determination of the environmental noise exposure in the member states based on common methods. The commission set up a working group which shall elaborate proposals for harmonised measurement and prediction methods especially for railway noise. An evaluation of the methods currently used in the member states has shown that the prediction procedures are very similar in principle but there are large differences in detail e. g. concerning the classification of engines, vehicle, tracks and the corresponding emission values. Therefore, there is a need for a harmonisation of procedures. In course of this harmonisation the representation of the different sources (engine, ventilators, rail/wheel, aerodynamic sources) shall be improved, and emission data shall be separated strictly from transmission data. In the paper a comparison of current methods will be given, and the preparatory state of the elaboration of harmonised methods will be reported.

Note: for more information about this work, please contact the author.