

## Abstract

A generalisable procedure with defined guidelines used to simulate low-frequency booming noise allows variations in the design of different combinations of power units and drivetrains to be compared at early stages of development. The developed models enable fast parameter studies to be carried out by Acoustic Competence Centre ACC Graz, Volkswagen, Magna Steyr Fahrzeugtechnik, AVL List and facilitate the optimisation and fine-tuning of the acoustic targets at further stages of development.