

## **Acceptance of synthetic driving sounds in the interior of electric vehicles**

In the context of electric vehicles the need for additional noises is frequently discussed. Due to the slightly reduced exterior noise of electric vehicles, the introduction of additional alerting noises for greater pedestrian safety is hectically requested by blind associations and politicians. To the same extent, the design of interior sound of electric vehicles is disputed. Since the original electric vehicle interior sound is often expected to be perceived as too indifferently and characterless, the introduction of synthetic driving noises is frequently proposed. However, the opportunities and implications concerning the use of synthetic sounds are rarely systematically investigated so far. In a case study different sound schemes were developed covering potential approaches for driving noises in electric vehicles and by applying a context-sensitive method were evaluated with respect to consumer acceptance. Results of the study have shown that the simple introduction of synthetic sound will not automatically lead to a better assessment. The paper presents the developed sound concepts and resulting consumer reactions, and discusses the used general strategies of the drivers to assess in the original context the technology including sound.

Find more event abstracts in our >> [abstracts archive](#) <<

HEAD acoustics GmbH  
Ebertstraße 30a  
52134 Herzogenrath, Germany