



NVH Engineering Services

Development of Sound Quality Metrics

Instrumental evaluation of perceived acoustic quality

Automated evaluation | Increased efficiency | Benchmarking | Target sound design

We help you...

- to identify the perceived sound quality of your products in a reliable and time-saving way.
- to optimize your development processes at an early stage.
- to perceive the competitive position of your products.
- to determine the strengths and weaknesses of your products in well-defined operating conditions.
- to reliably design target sounds.

Take advantage of our long-term experience and competence in the field of automated evaluation of product sounds!

From measurement to judgment – reliable evaluation of product sound quality.



The development process of a sound quality metric for your product includes:

- The acquisition of acoustic measurement data and detailed analysis of involved sound sources and generation mechanisms
- The analysis of the acoustic measurement data with the help of appropriate psychoacoustic analysis methods
- The implementation of jury tests with experts in the field of acoustics and/or potential customer groups
- The correlation of the psychoacoustic analyses with subjective evaluations
- The development of a metric, which correlates with jury test evaluations
- The combination of results in a user-friendly tool

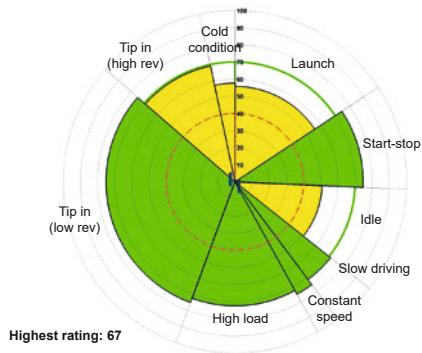
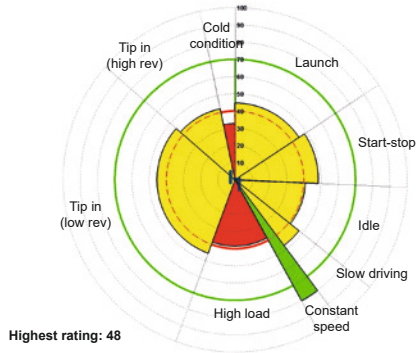
Use our infrastructure and benefit from our flexibility!

In our test facilities we implement complex measurement tasks with latest HEAD acoustics measurement instrumentation. In addition to our in-house jury test studio, we offer a mobile jury test system for the reliable acquisition of subjective judgments. Let us meet your demands on-site with our know-how and our products! Find out more about interesting topics from our consulting portfolio.



The acoustic quality of your product in facts and figures!

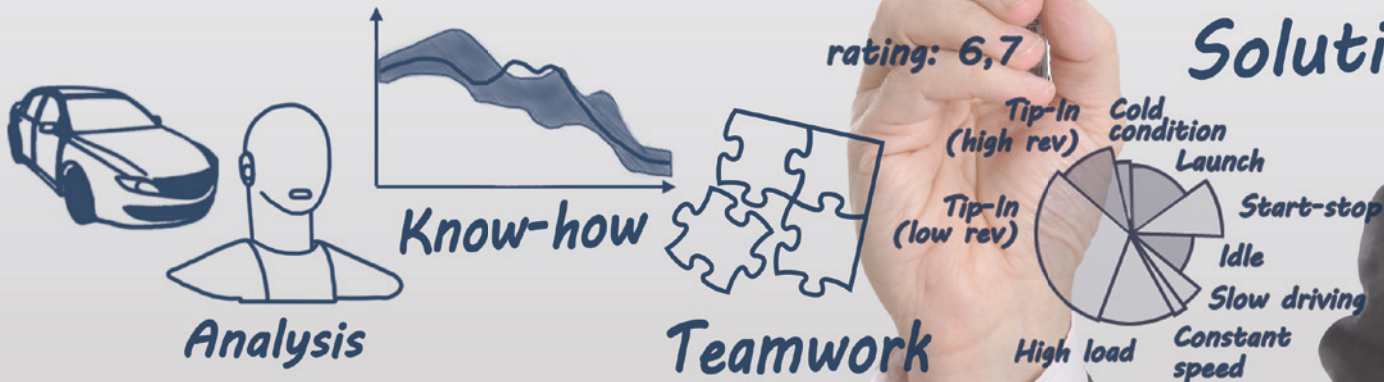
Get a detailed impression of your product with the help of your sound quality metric.
Clearly arranged results support your development processes.



Example: Comparison of the interior noise of two vehicles. The size of the segments corresponds to the relevance of the driving conditions.

Success

Solution



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The expertise of our specialists will support you throughout the entire development process. You will benefit from our long-term experience in the fields of acoustic measurement methodology and psychoacoustic analysis, and the acquisition of jury test data.