

# BaTh / MaTh Investigation of Effect Paths for the Reduction of Test Effort for Automated Driving

## Task description in English

The safety validation of automated emergency braking (AEB) systems is not economical with current methods. A statistical proof requires a lot of driving data due to rarely occurring errors. For this reason, FZD is investigating effect paths to reduce the effort of achieving statistical evidence.



source: [Continental AG](#)

## Task Details

- Familiarization with function and validation of AEB systems
- Familiarization with one effect path (e.g. importance sampling, ...)
- Identification of prerequisites for implementing the effect path
- Simplified implementation and application of the effect path
- Evaluation with regard to various criteria (reduction potential, applicability, etc.)

### Your benefits:

- Gather experience with real driving data
- Exchange with industry partners

**NOTICE: All projects and theses at FZD can be done in English or German, as preferred.**

**ANMERKUNG: Alle Projekte und Arbeiten bei FZD können wahlweise in Englisch oder Deutsch durchgeführt werden.**