

Comments to Document IWG-DPPS-21-08: „Comparison bet. HBMs (Annex 2) and Pedestrian Dummy”

- **FE model of the generic buck (published model with erroneous spec)** → The errors (differences between hardware buck and buck model) have been adequately considered in updated models for Appendix B, which address the current accuracy requirements of the DPPS procedure (HIT determination). They could be further improved, if indicated and necessary.
- **Publication of results of biofidelity assessment** → Biofidelity requirements similar to SAE J2868 could also be defined for HBMs. Several groups (e.g. TUC and HBM4VT) are working on harmonized HBM validation repositories, which should be available, if HBMs in future regulations would be used for injury assessment. The DPPS subgroup working on Annex 2+3 decided that this is not necessary now, as the HBMs are only used for HIT determination.
- A disadvantage of a test procedure with a hardware dummy is that currently only the 50% male is available. A possible way forward could be a combination of tests with a 50% dummy, which could also be used to validate the vehicle model (together with component tests if necessary). The other sizes (5%, 95% and children) could then be checked in an HBM based simulation procedure.