European Enhanced-safety Vehicle Committee

EEVC PROGRESS REPORT FOR GRSP

(December 2003)
EEVC Structure

✔ Founded in 1970
✔ Governmental Body
✔ Membership: France, Germany, Greece, Italy, the Netherlands, Poland, Portugal, Spain, Sweden and the United Kingdom
✔ Steering Committee (with EC & GRSP representatives)
✔ Working Groups to report to S.C.
EEVC Aims

- Identify Possible Progress in Vehicle Safety
- Carry out/Coordinate Research to Determine the Best Way Forward
- Demonstrate Practicality and Develop Appropriate Test Procedures
Working Group Activities

- Advanced Anthropometric Adult Crash Dummies
- Side Impact Protection
- Car to Truck Underrun
- Car Crash Compatibility and Frontal Protection
- Pedestrian Protection
- Child Safety
- Interaction between Active and Passive Safety
- Protection in Rear Impact
- Accident Studies (support group)
- Virtual Testing
Advanced Anthropometric Crash Dummies

- ES2 completed and validated

- ES2 proposed to EC and ECE for inclusion in regulations

- ES2 under consideration by NHTSA and other countries
Advanced Anthropometric Crash Dummies

- Work to improve the frontal THOR dummy
- Report on whiplash injuries
- Contribution to IHRA biomechanics
Side Impact Protection

- Interior head impact test procedure
- Revised specifications of EEVC MDB to be used in ECE-R95 (Completed)
- Advanced European MDB discussed in IHRA
- Supports 2 designs of MDB (cars and large SUV)
Car to Truck Underrun

- Work supported by EU project "VC-Compat"
- To propose a test procedure and associated performance criteria
- Cost/Benefit evaluation of improved compatibility
Car Crash Compatibility

- Accident analysis to determine parameters related to compatibility
- Car Geometry Analysis
- Benefit Analysis
- Crash test procedures to assess compatibility

Frontal Impact Protection
- Footwell intrusion
- Seat belt reminders
Pedestrian Protection

- Step following 1998 report
- Windscreen area test method
- New technologies (including virtual testing) for protection assessment
- Contributions to IHRA - PS
- Co-operation with GRSP ad hoc group
Child Safety

- Accident studies for cars and buses
- Dummies biofidelity
- State of the art on legislation
- Questions related to ECE R44
Active/Passive Safety Interaction

- State of the art description (1 year)
  - existing and future techniques
  - effect of these techniques on injury priorities
  - relation to existing regulation
Protection in Rear Impact

- Develop a test procedure
- test conditions based on accidents
- biofidelic dummy for neck injury assessment
- protection criteria for neck injuries
Accident Studies

✓ Monitor Developments in Advanced Safety Systems, Determine their Efficacy Using Existing Databases

✓ Recommendations for Future EEVC Researches

✓ Identify Areas of Poor Quality Data and Make Proposals to Improve

✓ Links with EEVC WGs
Virtual Testing

- Identify Areas where Virtual Testing would Improve Test Procedures
- Establish Complementarity between Virtual and Crash Tests
- List the Questions to be Solved Before the Introduction of Virtual Testing (Report in 1 year)
Conclusions

✓ EEVC is an independent body.

✓ EEVC proposals used by legislative bodies and industry in Europe.

✓ EEVC is preparing the future for car safety assessment.

✓ EEVC continues to support International Harmonisation for Vehicle Safety Requirements.
THANK YOU

www.eevc.org