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COST 327

Motorcycle Safety Helmets

| Project details | |
|-----------------|---|
| Domain | Vehicle Technology: Passive Safety |
| Duration | from 01/06/1995 until 30/11/1999 |
| Website | |
| Other sources |  Final Report (7,24 MB)  Additional information on the Cordis server |

Head injuries cause some three-quarters of all fatalities to motorcyclists, while about one quarter of all injured riders suffer a head injury. COST 327 was formed to investigate in detail, motorcyclists' head and neck injuries.

The COST 327 action was established with seven research topics, with a timetable and four main objectives, all to be achieved using a wide range of European experience to determine or modify national approaches.

Topics:

- Literature review
- Accident data collection
- Headform assessment
- Reconstruction of helmet accident damage
- Mathematical model of the skull, brain, neck, and helmet
- Human tolerance to injury
- Development of test procedures

Objectives:

- The first was to establish the distribution and severity of injuries experienced by motorcyclists, concentrating on the head and neck.
- The second was to determine the most significant head and neck injury mechanisms.
- Thirdly, the tolerance of the human head, brain and neck to these injuries and injury mechanisms was to be established.
- The overall findings were to be used to propose a specification for future testing of motorcycle helmets in Europe.

Coordinator

- [TRL - Transport Research Laboratory](#) (UK)

Partners

- [AGV helmets](#) (IT)
- [JÁFI-AUTÓKUT Kft.](#) (HU)
- [DFT - UK Department of Transport](#) (UK)
- [Swiss Federal Laboratories for Materials Testing and Research](#) (CH)
- [INRETS - Institut National de Recherche sur les Transports et leur Sécurité](#) (FR)
- [Ludwig-Maximilians-Universität München](#) (DE)
- [Politecnico di Milano](#) (IT)
- [South Glasgow - University Hospitals NHS Trust](#) (UK)
- [Technical University Eindhoven](#) (NL)
- [Göteborg University](#) (SE)
- [University of Hannover, Accident Research Unit](#) (DE)
- [University Louis Pasteur](#) (FR)
- [Université de Valenciennes et du Hainaut-Cambrésis](#) (FR)