
Integration of results on driver workload and driving performance

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Driver workload and driving behaviour within the framework of HUMANIST



- Definition of assessment procedures for usability and safety evaluation is one of the important benefits expected from the NoE
- “Driver workload” and “Driving behaviour” are key concepts
- From different perspectives most of the HUMANIST Task Forces deal in some way with these concepts
- Most relevant under the aspect of “workload evaluation” are Task Forces E and D

Evaluation methodologies



TF E: Development of Innovative Methodologies

Specific objectives of first 18 months:

- Identify and categorise existing and proposed methods for usability and safety evaluation of ITS
- Identify advantages, disadvantages, range of application and effectiveness of the various methods
- Develop and publish a summary matrix

Evaluation methodologies



- The problem of how to integrate and combine results from different methodological approaches to form a complete picture will be addressed
- Links with research performed within the framework of IHRA-ITS (e.g. Jahn et al., in press) can be used
- The approach will be extended by a “long-term perspective” which includes methods to assess processes of learning, skill acquisition and behavioural adaptation

Integration of results



TF D: Impact Analysis of ITS on driving behaviour

- Continuous review of the state-of-the-art of evaluation studies performed by partners (i.e. results of applying methods)
- Review covers behavioural effects of IVIS, Intelligent Speed Management and issues of special user groups (e.g. elderly drivers, professional drivers)
- Focus on safety relevant aspects (e.g. distraction)
- Providing the contents for electronic knowledge data base to be set up in TF 3

Results with special relevance for exchange with AIDE



Within the first period (months 1-18):

- Deliverable D.2: Review of distraction effects due to the interaction with IVIS (month 11)
- Deliverable E.2: A matrix of advantages and disadvantages of ITS assessment methods and the application and effectiveness of ITS assessment methods (month 10)

Co-operation with AIDE in the long run



Some topics of interest from the “workload perspective”:

- Effects of learning, skill acquisition, behavioural adaptation (impact and assessment methods)
- Results on the integration of methods into an assessment methodology
- Contributions from AIDE to knowledge data base