

Activities of BAST in the area of ITS

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Outline

- Research issues in the area of ITS
- Main activities in the eSafety initiative
- Main activities in the International Harmonized Research Activities on ITS (IHRA-ITS)

Direct safety risks, arising from:

- Driver distraction
- Driver workload, especially overload

Indirect safety risks, arising from:

- Learning, skill development and transfer
- Manipulation and misuse of telematics and Advanced Driver Assistance Systems (ADAS)

Requirements and implementation issues, e.g.:

- Intelligent Speed Management
- Special user groups (e.g. elderly drivers)
- Legal and organisational requirements
- Identification of safety potentials by accident analyses

The eSafety initiative:

- Joint private-public sector initiative launched by the European Commission in 2002 in order to increase road safety by means of modern information and communication technologies (50% reduction of fatalities by 2010)
- Overall objective: European strategy to accelerate research, development and deployment Intelligent Integrated Road Safety Systems

The eSafety Forum

- Joint platform involving all road safety stakeholders
- Dealing with the problems of introducing intelligent vehicle safety systems including the business rationale
- eSafety Working Groups to focus on the domain-specific priority areas
- eSafety Forum promotes and monitors the recommendations identified by the Working Groups

eSafety Working Groups:

- eCall
- Real Time Traffic Information
- **HMI**
- International Cooperation
- Accident Causation Analysis
- Research and Development
- Road Maps
- Heavy Vehicles (to be set up in 2004)
- Public Outreach (to be set up in 2004)

Main activities in the eSafety initiative

eSafety Working Group HMI

Chair: Annie Pauzie, INRETS, F
Alan Stevens, TRL, UK
Christhard Gelau, BAST, D



Objective:

- To identify HMI related problems likely to negatively impact on safety or markets for in-vehicle systems including “Nomad Systems”
- To further develop existing EU Statement of Principles (ESoP) based on latest and future technological developments and applications

eSafety Working Group HMI

Progress:

- Identification, listing and clustering of HMI related problems from available Member State reports and other relevant sources, “Problem Statements” for each cluster elaborated
- Proposal of a “Solution Matrix” (ongoing)

Working Group IHRA-ITS

- Representatives from Canada, France, Germany, Japan, Sweden, U.K., U.S.
- BAST contributes to regular activities (conceptual framework, workshops, survey of current research, priority projects)

Working Group IHRA-ITS

- Priority project: Development of a harmonised safety evaluation methodology framework
 - ➔ Joint German/Swedish/Japanese project on secondary task methods
 - ➔ Assessment of workload due to the use of in-vehicle information and communication systems
 - ➔ Results fit into the framework provided by projects like ADAM and CAMP (see 131st WP.29, Inf. Doc. No. 6)

Summary and conclusions

- Research targeted at the assessment of safety-related effects of ITS
- Priority on HMI and the development of assessment tools
- Provide input for standardisation and regulation

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Thank you for your attention!