



Workshop on Naturalistic Driving Studies



Munich Sept. 13 2006

M. Baumann, K. Bengler, C. Gelau,



Agenda

Time	Topic	Who ?
10:00-10:15	Welcome and Introduction	Bengler/Baumann/Gelau
10:15-11:15	Working title: Effects of secondary tasks on naturalistic driving performance	Sayer (UMTRI)
11:15-11-30	Break	
11:30-12:00	Is the 100-Car-Study a 1000-Answers-Study?	Krüger (IZVW)
12:00-12:30	Naturalistic Driving Studies to investigate IVIS use and distraction exposure: interests and limits of the approach	Brusque (INRETS)
12:30-13:30	Lunch break	
13:30-14:00	Driving for safety – naturalistic field studies	Vollrath (DLR)
14:00-14:30	Finding a position of naturalistic driving studies in the methodological spectrum	van der Horst (TNO)
14:30-14:45	Break	
14:45-16:15	Panel discussion on definition of a set of statements on methodological requirements for naturalistic driving studies.	All
16:15-17:00	Summary/Adjourn	Bengler/Baumann/Gelau



Motivation

There is a growing number of studies

analysing driving behaviour in a natural context

following an non-experimental approach

trying to examine driving behaviour on a descriptive level

to

specify driver needs from observations (needs)

**and describe the impact of certain measures or systems on
observed driving behaviour (evaluation)**

(driving behavior)



Examples of naturalistic driving studies

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THE EFFECTS OF SECONDARY TASKS ON NATURALISTIC DRIVING PERFORMANCE

James R. Sayer
Joel M. Devonshire
Carol A. Flannagan

November 2005



DOT HS 810 593



April 2005

The 100-Car Naturalistic Driving Study

Phase II – Results of the 100-Car Field Experiment

DISTRACTIONS



IN EVERYDAY DRIVING

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Key Questions

What are methodological guidelines to follow in order to

- **To plan FOT and naturalistic driving studies**
- **Reduce the effort of such studies**
- **Reasonable, necessary data**
- **To analyse existing data**
- **To strengthen the conclusions drawn from such studies**



Goals of this workshop

Draft set of recommendations on minimal methodological requirements for FOT and naturalistic driving studies:

- **Get a better understanding of the value of natural driving vs. field operational tests vs. experiments vs. accidentology**
- **Exchange on procedural aspects to influence duration, data gathering procedures, sample selection,**
- **Exchange on data analysis approaches**
(frequencies vs. Linkanalyses vs. multiple regressions vs. Data-mining)
- **Interpretation of results**
causal vs. correlational, possible extrapolations and transfers
- ***Definitions – Terms – Glossary***