Institute for Transport Studies

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INTEND
Proposal for a European Collaborative Project

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Overview

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- INTEND = INvestigation of Techniques for European Naturalistic Driving studies
- Task SST.2008.4.1.2 “Human Components” in EC Sustainable Surface Transport Call 2008-1
- Two-year project to pave way for full-scale study
  - *Success of proposal unknown*
  - *No certainty of funding for the full study*

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Partners

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Institute for Transport Studies, University of Leeds	UK
VTI – The Swedish National Road and Transport Research Institute	Sweden
VTT Technical Research Centre of Finland	Finland
SAFER – Vehicle and Traffic Safety Centre at Chalmers University of Technology	Sweden
INRETS – Institut National de Recherche sur les Transports et leur Sécurité	France
TRL – Transport Research Laboratory	UK
Technische Universität Chemnitz	Germany
DLR – Deutsches Zentrum für Luft- und Raumfahrt e.V.	Germany
BASt – Bundesanstalt für Straßenwesen	Germany
Transport Canada	Canada

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Abstract

The project will prepare the methodology for a European investigation of driving in naturalistic circumstances, i.e. the use of unobtrusive observation techniques to investigate how drivers actually drive in the real world. The major outcome of this feasibility and preparation project will be a specification of the study design and methodology for a full-scale investigation, including a detailed specification of the various kinds of equipment to be used on the vehicles. Full-scale ND studies are a very large undertaking, so that it is vital to prepare the way with a carefully developed and pre-tested methodology. The project will work in close collaboration with the U.S. SHRP2 programme and in particular with project S05 which is preparing the methodology for the large-scale U.S. investigation of driving in naturalistic circumstances. ND methodology needs to be adapted to European circumstances and requirements, and the European needs may well lead to some variation from S05 choices.

Main output

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The specification of the study design and methodology for a full-scale Naturalistic Driving investigation, including a detailed specification of the various kinds of equipment to be used on the equipped vehicles, of sample sizes, costs and effort

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Objectives

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1. To create a cost-effective methodology for performing Naturalistic Driving studies, including data-collection equipment and procedures
2. To identify problems related to performing Naturalistic Driving studies and the countermeasures to take to overcome these problems
3. To provide a demonstration of the function and reliability of procedures, technology and analysis methods
4. To test the initial specification of the study design through a pilot study with a small number of equipped cars to ensure the robustness of the data collection process
5. To assess the sensitivity of data gathering equipment versus the cost of different kinds of equipment.

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The safety pyramid

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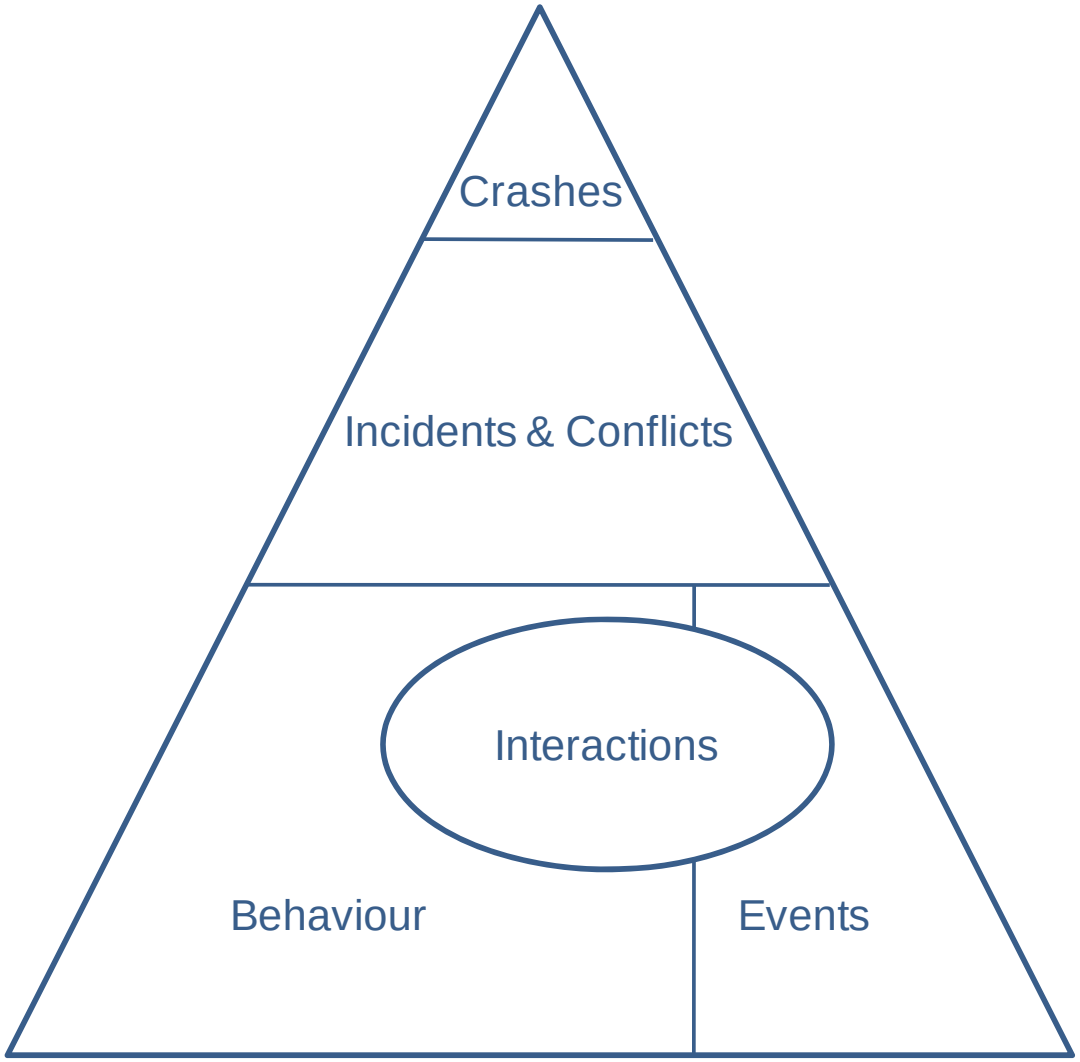

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Interrelationship of workpackages

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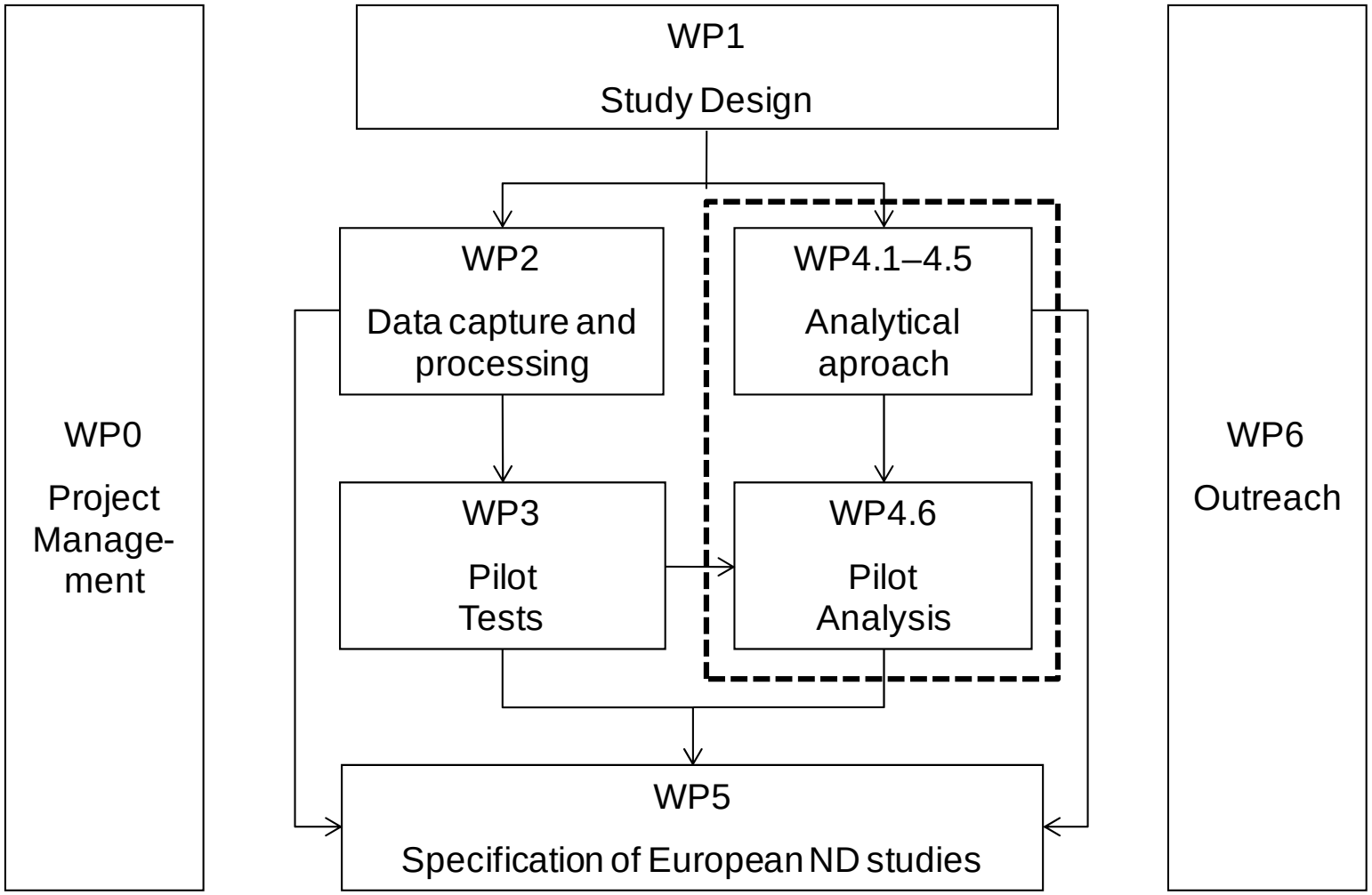

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Workpackages

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WP	Leader
1 Study Design	VTI
2 Data Capture and Processing	VTT
3 Pilot Tests	Chemnitz
4 Analytical Approach	SAFER
5 Specification of European ND Studies	ITS Leeds
6 Outreach	VTI

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Collaboration with U.S.

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- Close links foreseen with S01, S02 and S05
- Letters of collaboration from:
  - VTTI
  - UMTRI
  - University of Iowa Public Policy Center

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Finally

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- Ideas for a logo welcomed!
- My contact details:

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