



6th Framework Programme - Priority 2 "Information Society Technologies"

"HUMAN centred design for Information Society Technologies"

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1 Introduction

This report provides an overview on the TF5 training activities for professionals during the first two years of the HUMANIST network.

The report consists of brief descriptions of the aim and content of training events. The content of this document is based on relevant milestone reports and deliverables that have been submitted during the first two years of the project. Details about the events, the content, and the evaluation of the first two events may especially be found in Deliverable 5.3 (here in attachment for your convenience), Definition of content and didactic format of training programs for professionals.

In the first two years of the HUMANIST network the following activities have been performed:

- Identification of training opportunities for professionals: an inventory was made of the opportunities for the development of training courses for professionals. The partners involved in TF5.2 provided information on the target groups of professionals for which to organise training and their contacts with these groups. We identified topics of interest for the target groups. The partners indicated their ability and willingness to give (parts of) courses. Existing courses in this area were identified.
- A first workshop for professionals on “Safety Impact of Road Telematics and Driver Assistance Systems”, 10 February 2005 in Brussels.
- A Summer School on “Intelligent Transport Systems: Design and Safety”, 3-6 July 2005 in Saint-Lary, France.
- A tutorial on “Safety of Transport Systems”, 24 February in Braunschweig, Germany. This training event was organised in connection with the AAET 2006 conference.

2. 1st training event: Workshop for professionals on “Safety Impact of Road Telematics and Driver Assistance Systems”, 10 February 2005 in Brussels.

This 1-day event was a first try-out of our training program. The workshop was organised in collaboration with BIVV. The following lectures were given at the workshop:

- 1 Introduction to safety and human-centred design of safety-critical systems, Guy Boy, EURISCO
- 2 ITS functions and their potential consequences on safety, Annie Pauzie, INRETS

- 3 Measurement methods and techniques for evaluating IVIS with respect to safety-relevant criteria, Joseph Krems, CUT
- 4 Design Guidelines for ADAS Systems, Vassilis Papakostopoulos (replacing Stella Nikolaou, CERTH/HIT)
- 5 Classification of Driver Assistance Systems According to their Impact on Road Safety, Ioanna Spyropoulou, NTUA

In total there were 12 participants, 5 lecturers and a chairperson, from 7 different countries. 5 People were external to HUMANIST. The workshop was evaluated as positive, but a lack of interaction between lecturers and participants was noted.

The overall conclusion was that we succeeded in our goal to organise a first workshop that was coherent and interesting for professionals. It gave us confidence that we are able as a network to organise such events and to attract a public. Although there was room for improvement, we were of the opinion that we are on the right track and that the experience of this workshop helped us in improving and extending the development of training for professionals.

3. 2nd training event: Summer School on “Intelligent Transport Systems: Design and Safety”, 3-6 July 2005 in Saint-Lary.

This three days event was based upon the Brussels workshop, but more extended and with more emphasis on interaction between lecturers and participants and between participants. Exercises, performed in small groups, were introduced, both for stimulating discussions and for didactic reasons. The three days treated three, related themes:

- Day 1: Safety and ITS: an introduction was given on the wide range of ITS systems, their different functions and their impact on safety, taking into account different driver groups. This day had for purpose to introduce the topic, to ensure that all the participants had a same basic level of understanding of the domain and its problems. An exercise was given in which participants had to relate the characteristics of different groups of drivers with different ITS functions and driving contexts. The exercise was held in small groups so that participants could interact and apply what they had learned from the lectures, and could learn from each other's experience.
- Day 2: Human Centred Design: the development and evaluation of ITS was treated. This day had for purpose to explain and demonstrate different methods of evaluation of systems and to explain guidelines for design of interactive systems in the car. Demonstrations were given of different evaluation techniques such as occlusion and the lane-changing task. In small groups the participants applied the set of design guidelines in an exercise.
- Day 3: Perspectives on road safety safety was addressed in a larger perspective, also for the future, and not only for ITS systems in individual

cars and for car drivers. Topics treated were ITS for professional drivers and the future of cooperative traffic systems. A lecture was given on the experiences from the aeronautic domain on automation and safety. In small groups possible consequences of automation were discussed during an exercise. Finally the impact of ITS and their use on other, vulnerable road users, and societal consequences, were lectured and discussed.

The following lectures were given at the workshop:

1. ITS functions and their potential consequences on safety (Annie Pauzié INRETS)
2. Classification of ITS functions and interfaces: safety impact (Ioanna Spyropoulou, NTUA)
3. Safety according to ITS functions and to drivers (Ralf Risser, Factum)
4. Drivers' workload and brain processes (Ellen Wilschut, IFADO)
5. Measurement methods and techniques for evaluating ITS with respect to safety-relevant criteria (Joseph Krems, CUT)
6. Design guidelines for human machine interaction for in-vehicle systems (Stella Nikolaou, CERTH/HIT)
7. ITS and professional drivers (Annie Pauzie INRETS)
8. Road safety from a future perspective: innovative aspects of cooperative systems (Stella Nikolaou CERTH/HIT)
9. Automation, safety and human-centred design of safety-critical systems (Guy Boy, EURISCO)
10. Public impact of ITS: non-equipped and vulnerable road users, and residents (Ralf Risser, FACTUM)

There were 17 participants (including 7 lecturers), with three people from organisations not involved in HUMANIST. We encountered some problems with the publicity for this summerschool. However, we concluded that in terms of content, interactivity and satisfaction of the participants the summerschool was a success.

4. 3rd training event: tutorial on “Safety of Transport Systems”, 24 February in Braunschweig,

This tutorial was organised in collaboration with the Gesamtzentrum für Verkehr, Braunschweig and DLR, in the frame of the AAET 2006 (Automatisierungs-, Assistenz-systeme und eingebettete Systeme für Transportmittel) symposium. GZVB took care of the organisational aspects, announcement and registration, thus enabling us to access an industrial public.

The content was again based on the previous workshop and summerschool. Because it was a one-day event, exercises could not be held. In order to keep the interactive aspect, a panel was added.

The following lectures were given:

1. Safety and ITS functions in cars and their potential consequences on safety, Annie Pauzié, INRETS
2. Automation, safety and human-centred design of safety-critical systems, Guy Boy, EURISCO
3. Measurement methods and techniques for evaluating ITS with respect to

- safety-relevant criteria, Martin Bauman, CUT
4. Public impact of ITS, Ralf Risser, FACTUM
 5. Panel on Cooperative transport systems: shared authority (on road, train and air transport), Michael Meyer zu Hörste DLR, Peter Hecker Technische Universität Braunschweig, Stella Nikolau, CERT/HIT, Guy Boy, EURISCO

The panel was an interesting addition to the program and gave rise to an interesting discussion.

There were 23 participants, including 10 lecturers/HUMANIST people, and two panel members from DLR and TUB. The day was a success, with positive feedback.

5. Future training activities

A two days training seminar on Intelligent Transport Systems: Design and Safety took place in Prague, 9-10 May 2006. The evaluation has not yet been done, but the first impression is that the event was successful, both in terms of content and participation.

At the moment we are working in TF5 on developing a business plan on the continuation of the training activities for professional. The program we have developed thus far, tried out in several events, in several configurations and subsequently improved, is seen by us as coherent and interesting. The lecturers are willing to continue and discussion is going on about the way in which this can be organised in a sustainable way.