TRAIN-ALL

Integrated System for driver TRaining and Assessment using Interactive education tools and New training curricula for ALL modes of road transport

Project details	
Domain	Training, education and campaigns
Duration	from 01/11/2006 until 31/10/2009
Website	
Other sources	Transport Research & Innovation Portal Cordis

About 40,000 people are killed and 1,700,000 injured each year in accidents in the European Union. A significant part of these accidents involves particular driver cohorts. Scientific studies have shown that a good percentage of these accidents may be attributed to insufficient/inappropriate training, of higher order skills and risk awareness. CBT tools, such as training videos and CD's, multimedia training s/w, static, dynamic VR and AR driving simulators, Ambient Intelligence, cooperative driving-based simulation systems, mobile units and in-vehicle tools have been proposed and used to train relevant skills in small scale projects so far.

TRAIN-ALL aims to develop a computer-based training system for different land-based drivers cohorts that integrates multimedia s/w, driving simulator, virtual driving simulator and on-board vehicle sensors into a single modular platform. The new system will be adequate for training and assessment. The core developments will focus on driving simulators, with several prototypes development. New simulation tools will be developed for motorcycle riding, passenger car (novices and emergency drivers) and truck driving. The new tools include also VR-based immersive simulation tools, as well as a common architecture (ontologies-based) and a modular simulator design process for multi-user groups.

The new simulation tools will have many innovative features, such as AmI-based traffic participants, virtual instructor guidance, ADAS/IVICS training modules and will support co-driving, cooperative and group training, remote networking, dynamic scenario management, enhanced reality representation and adaptive training. The developed tools will be tested and optimised in 11 pilots Europe wide, aiming at products, guidelines, standards, certification and accreditation at pan-European level. This task is undertaken by a consortium of 17 Partners from 8 European countries, including 6 major manufacturers.

Coordinator
• Centre for Research and Technology Hellas (GR)

Partners
• [THALES Services SAS](#) (FR) • [GREEN DINO VIRTUAL REALITIES BV](#) (NL) • [INRETS - Institut National de Recherche sur les Transports et leur Securité](#) (FR) • [WUERZBURGER INSTITUT FUR VERKEHRSWISSENSCHAFTEN](#) (DE) • [UNIVERSITAET PASSAU](#) (DE) • [VTI - Swedish Road and Transport Research Institute](#) (SE) • [UNIVERSITAET BASEL](#) (CH) • [Polizeipräsidium Oberbayern](#) (DE) • [Fiat research centre](#) (IT) • [Institut für Arbeitsphysiologie (University of Dortmund)](#) (DE) • [DR. ING. REINER FOERST GMBH](#) (DE) • [BAYERISCHE JULIUS-MAXIMILIANS-UNIVERSITAET WUERZBURG](#) (DE) • [TNO - Organisation for Applied Scientific Research](#) (NL) • [ICCS - Institute of Communications and Computer Systems](#) (GR) • [Institute for Human Factors and Technology Management (Stuttgart)](#) (DE) • [TRL - Transport Research Laboratory](#) (UK)