COOPERS

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Co-operative networks for intelligent road safety

From 2006-02-01 to 2010-01-31 | COOPERS Website

Project details

<table>
<thead>
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<th>Total cost:</th>
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<td>EUR 16 778 293</td>
<td>IST-2004-2.4.12 - eSafety Co-operative Systems for Road Transport</td>
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<td>EUR 9 799 209</td>
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<td>Austria</td>
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Objective

COOPERS Vision provides vehicles and drivers with real time individual/local situation based, safety related traffic status and infrastructure status information distributed via dedicated Infrastructure to Vehicle Communication (I2V). This approach extends the concepts of vehicle autonomous systems and vehicle to vehicle communication (V2V) with tactical and strategic traffic information only be provided by the infrastructure operator in real time.

I2V in this respect will significantly improve traffic control and safety via effective and reliable transmission of data fully adapted to the local situation of the vehicle (ensemble of vehicles). I2V will extend massively the responsibility and liability of the infrastructure operator as by today in terms of reliability and accuracy of information to advice drivers / vehicles. The highest effect of I2V communications will be achieved in areas of dense traffic also known as areas where risk of accidents and traffic jams is extreme high. The real-time communication link between infrastructure and vehicle can also be used vice versa for V2I communication utilising vehicles as floating sensors to verify infrastructure sensor data as source for traffic control measures.

COOPERS follows a 3-step approach for implementation of I2V communication:
- Improve road sensor infrastructure and traffic control applications for more precise situation based traffic information and driver advice. Establish a link between road tolling systems and I2V concept.
- Development of a communication concept and applications able to cope with the I2V requirements in terms of reliability, real time capability and robustness and considering different technologies (DAB, CALM, etc.).
- Demonstrate results on important sections of European motorways with high density traffic in NL, GER, AUS, IT and develop deployment strategies for mixed environment.
Coordinator

AUSTRIATECH - GESELLSCHAFT DES BUNDES FUER TECHNOLOGIEPOLITISCHE MASSNAHMEN GMBH
DONAU-CITY-STRASSE 1
1220 WIEN
Austria
See on map

Administrative contact: FROETSCHER, ALEXANDER
Tel.: +43-1-263344464
Fax: +43-1-263344410
E-mail

Participants

ARS TRAFFIC & TRANSPORT TECHNOLOGY B.V.
ORANJESTRAAT 7
2514 JB ’S-GRAVENHAGE
Netherlands
See on map

ASCOM (SCHWEIZ) AG
BELPSTRASSE 37
3000 BERN 14
Switzerland
See on map

ASSOCIATION DES SOCIETES FRANCAISES DES AUTOROUTES
3, RUE EDMOND VALENTIN
75007 PARIS
France
See on map

AUSTRIAN RESEARCH CENTERS GMBH - ARC
DONAU-CITY-STRASSE 1
1220 WIEN
Austria
See on map

AUTOBAHNEN- UND SCHNELLSTRASSEN-FINANZIERUNGS-AKTIENGESELLSCHAFT
ROTENTURMSTRASSE 5-9
1011 WIEN
Austria
See on map
AUTOSTRADA DEL BRENNERO SPA  
VIA BERLINO 10  
38100 TRENTO  
Italy  
See on map

BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT  
PETUELRING 130  
80788 MUENCHEN  
Germany  
See on map

BAYERISCHES STAATSMINISTERIUM DES INNERN  
ODEONSPLATZ 3  
80539 MUENCHEN  
Germany  
See on map

DORNIER CONSULTING GMBH  
ZEPELINV WERFTGELANDE 31  
880003 FRIEDRICHSHAFEN  
Germany  
See on map

EFKON AG  
ANDRITZER REICHSSTRASSE 66  
8045 GRAZ  
Austria  
See on map

EFKON MOBILITY GMBH  
VOLTASTRASSE 5  
13355 BERLIN  
Germany  
See on map

ERNST & YOUNG FINANCIAL - BUSINESS ADVISORS SPA  
VIA WITTGENS FERNANDA 6  
20123 MILANO  
Italy  
See on map

FORSCHUNGS- UND ANWENDUNGSVERBUND VERKEHRSYSTEMTECHNIK BERLIN  
AM BORSIGTURM 48  
13507 BERLIN  
Germany  
See on map
FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.  
HANSASTRASSE 27C  
80686 MUENCHEN  
Germany

GEWI HARD- UND SOFTWARE ENTWICKLUNGSGESELLSCHAFT MBH  
SOLBADSTRASSE 2  
06406 BERNBURG  
Germany

INESC - INOVACAO - INSTITUTO DE NOVAS TECNOLOGIAS  
RUA DE ALVES REDOL 9  
1000-029 LISBOA  
Portugal

INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE IN INFORMATICA - ICI BUCURESTI  
8-10 MARESAL AVERESCU AVENUE  
011455 BUCHAREST  
Romania

JAST SA  
PARC SCIENTIFIQUE DE L’EPFL  
1015 LAUSANNE  
Switzerland

KUNGLIGA TEKNISKA HOGSKOLAN  
VALHALLAVAGEN 79  
100 44 STOCKHOLM  
Sweden

KYBERTEC S.R.O.  
TOVARNI 1112  
53701 CHRUDIM IV  
Czechia

LGAI TECHNOLOGICAL CENTER SA  
CARRETERA D’ACCES A LA FACULTA DE MEDICINA, CAMPUS UAB  
08193 CERDANYOLA DEL VALLES  
Spain
LUCENT TECHNOLOGIES NETWORK SYSTEMS GMBH  
THURN-UND-TAXIS-STR. 10  
90411 NUERNBERG  
Germany  
See on map

NAVTEQ B.V.  
DE RUN 1115  
5503LB VELDHOVEN  
Netherlands  
See on map

OESTERREICHISCHER RUNDFUNK  
WUERZBURGGASSE 30  
1136 WIEN  
Austria  
See on map

POLITECHNIKA LODZKA  
ULICA ZEROMSKIEGO 116  
90 924 LODZ  
Poland  
See on map

PWP - SYSTEMS GMBH  
OTTO-HAHN-STRASSE 20 A  
65520 BAD CAMBERG  
Germany  
See on map

S&T SLOVENIJA, INFORMACIJSKE RESITVE IN STORITVE, D.D.  
LESKOSKOVA CESTA 6  
1000 LJUBLJANA  
Slovenia  
See on map

STATENS VAEG- OCH TRANSPORTFORSKNINGSINSTITUTET  
OLAUS MAGNUS VAEG 35  
581 95 LINKOEPING  
Sweden  
See on map

SWARCO EUROPE GMBH  
BLATTENWALDWEG 8  
6112 WATTENS  
Austria  
See on map
TEAMNET INTERNATIONAL SA
STRADA MIHAI BRAVU 10
100550 PLOIESTI
Romania

TECHNICAL UNIVERSITY OF CRETE
AGIOU MARKOU STR.
73132 CHANIA
Greece
See on map

TECHNISCHER UNIVERSITAET WIEN
KARLSPLATZ 13
1040 WIEN
Austria
See on map

TO BE DEFINED
XXX
XXX
See on map

TRANSVER GMBH
MAXIMILIANSTRASSE 45
80538 MUENCHEN
Germany
See on map

UNIVERSITY OF SOUTHAMPTON
HIGHFIELD
SO17 1BJ SOUTHAMPTON
United Kingdom
See on map

VEGA INFORMATIONS-TECHNOLOGIEN GMBH
EUROPAPLATZ 5
64293 DARMSTADT
Germany
See on map

VEREINIGUNG HIGH TECH MARKETING
LOTHRINGERSTRASSE 14/6
1030 WIEN
Austria
See on map