



REDUCTION 2011-2014

Deliverable D6.1.3 Final Report on Dissemination

31-08-2014



Project acronym: Reduction

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1.1	2014.08.15	Comments from UHI and TRI addressed
2.0	2015.01.26	Comments from the 3rd year review meeting addressed



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Executive Summary

The REDUCTION project is an EU-FP7 STREP project that addresses the reduction of green-house gas emissions by exploring advanced Intelligent Transportation Systems analytics.

The project has seven work packages. The first work package (WP1) elaborates on state-of-the-art devices and protocols for vehicle-to-infrastructure and vehicle-to-vehicle communication, and it provides means of collecting driving-related data. The second work package (WP2) proposes innovative data mining methods in the domains of ecological driving (eco-driving) and cooperative driving. The third work package (WP3) devises techniques for ecological routing (eco-routing), which recommend routes that are expected to minimise green-house gas emissions as vehicles travel on a road network. The fourth work package (WP4) provides system integrations of components contributed by work packages WP1 to WP3. The fifth work package (WP5) covers four field trials to assess the utility of the technologies proposed by the REDUCTION project. The sixth work package (WP6) concerns dissemination, exploitation, and standards in relation to the project. The seventh work package (WP7) coordinates partners and ensures the effective and timely achievement of project goals.

This deliverable, D6.1.3, addresses tasks T6.1 in work package WP6 and describes dissemination means and activities carried out in the REDUCTION project in the period from 01-09-2011 to 31-08-2014. In particular, the report describes the following contributions.

- It identifies main target audiences of the REDUCTION project, including governmental authorities, municipalities, and public transport organisation (PTO), science and technology communities, policy and decision makers, transportation agencies, industrial suppliers and industrial research companies, SME fleet operators, the general public, and social media. They are also referred as stakeholders who can benefit from outcomes of the REDUCTION project.
- It describes dissemination means of the REDUCTION project, including the logo, the website, the fact sheet, and the poster designed for the project.
- It includes a summary of dissemination activities achieved within the three years of the project. Specifically, the activities have resulted in 62 publications that present results obtained in the REDUCTION project, 74 presentations given formally by REDUCTION partners that discuss information related to the project, 13 contacts established during the project, and 37 events attended by REDUCTION partners to advocate the outcomes to the public.

Thus, the objectives of deliverables D6.1.1, D6.1.2, and D6.1.3 have been achieved.



1. Introduction

1.1 Project Overview

The reduction of CO₂ emissions is a great challenge for the transport sector nowadays. Despite recent progress in vehicle manufacturing and fuel technology, still a significant fraction of CO₂ emissions in EU cities is resulting from road transport. Therefore, additional innovative technologies are needed to address the challenge of reducing emissions. The REDUCTION project focuses on advanced ICT solutions for managing multi-modal fleets and reducing their environmental footprint. REDUCTION collects historic and real-time data about driving behaviour, routing information, and emissions measurements, that are processed by advanced predictive analytics to enable fleets enhance their current services as follows:

1. Optimising driving behaviour: supporting effective decision making for the enhancement of drivers' education and the formation of effective policies about optimal traffic operations (speeding, braking, etc.), based on the analytical results of the data that associate driving-behaviour patterns with CO₂ emissions;
2. Eco-routing: suggesting environmental-friendly routes and allowing multi-modal fleets to reduce their overall mileage automatically; and
3. Support for multi-modality: offering a transparent way to support multiple transport modes and enabling co-modality.

REDUCTION follows an interdisciplinary approach and brings together expertise from several communities. Its innovative, decentralised architecture allows scalability to large fleets by combining both V2V and V2I approaches. Its planned commercial exploitation, based on its proposed cutting edge technology, aims at providing a major breakthrough in the fast growing market of services for "green" fleets in the EU and worldwide, and present substantial impact to the challenging environmental goals of the EU. Note that the vehicle fleets considered in REDUCTION refer to passenger vehicle fleets rather than freight vehicles.

1.2 Work Package Objectives and Tasks

The results of REDUCTION are made publicly available through peer-reviewed publications, conference presentations, press releases, web pages, and brochures. An exploitation and dissemination plan is specified to improve the outcome and benefit of the project for individual partners. Partners will search for and use existing fleet-management standards used in the EU. Important contributions to these standards are made where applicable.



1.3 Objectives of this Deliverable

AU leads this task, although all partners participate in dissemination activities promoting the findings and results of their ongoing research and development. All participants make the results available to a wider audience. Results of the project are presented at high-level conferences. Along with presenting results at conferences and workshops and publishing results in high-quality peer-reviewed journals, results and progress information are published on the project's website. This website is used by the consortium to post activities related to the project. Public engagement is enhanced through press releases and presentations to interest groups.

These objectives and targets have been achieved in the first and second years of the REDUCTION project, as reported in deliverables D6.1.1 and D6.1.2.

This deliverable, D6.1.3, involves dissemination activities of all partners about promoting their findings and results of on-going research and development in three years of the REDUCTION project. This deliverable reports on events and publications where it is possible to make the results of the project available to a public audience.

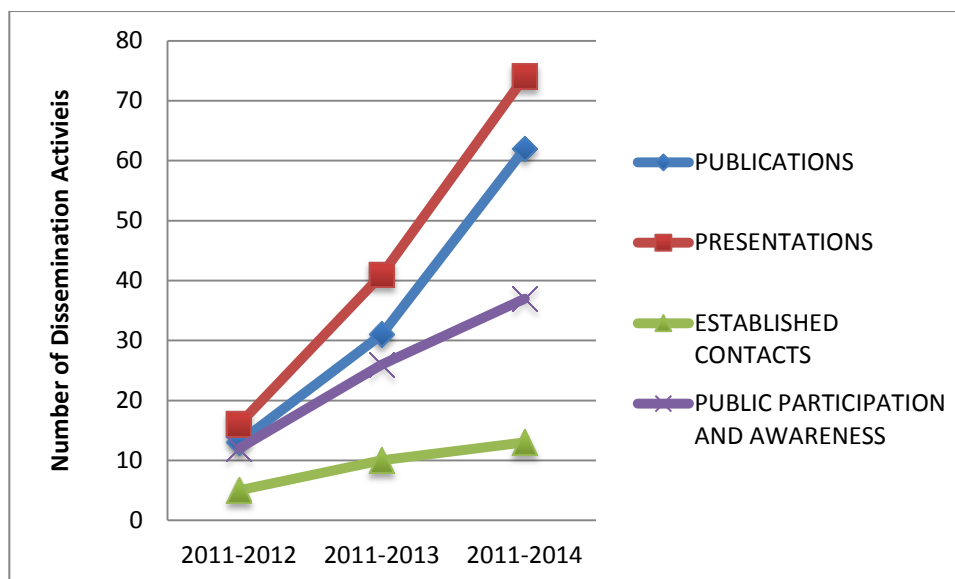
In particular, the dissemination includes the following means and activities:

- Logo, website and poster of the REDUCTION project.
- Events that are attended by REDUCTION partners, where the partners disseminate information on the REDUCTION project and discuss results of the REDUCTION project.
- Publications produced by REDUCTION partners that report results in conferences, workshops, journals, newspapers, etc.
- Formal presentations performed by REDUCTION partners that present results in international conferences and workshops.
- Contacts established during the REDUCTION project.
- Participation of external bodies in the REDUCTION project that help to raise the public awareness of the project.

The numbers of dissemination activities during three years of the project, including publications, presentations, established contacts, and public participation and awareness are presented in Figure 1. As can be seen from Figure 1, the project has published in total 62 publications, given 74 formal presentations, established 13 contacts, and has been involved in 37 events where the project is advocated to the public during all three years. Thus, the objectives of deliverables D6.1.1, D6.1.2, and D6.1.3 have been achieved.



Figure 1 The Numbers of Dissemination Activities during the REDUCTION Project



The objectives of D6.1.3 are summarised in Table 1.

Table 1 Summary of Objectives of D6.1.3

Description of Objectives	Progress Summary
To prepare logo, website, and poster of the REDUCTION project.	Logo, website, and poster of the project are described in this deliverable.
To report events that relate to the REDUCTION project.	Events attended by the REDUCTION partners are reported.
To publish scientific and technical contributions in prestigious conferences and journals.	Papers published by the REDUCTION partners are reported.
To present REDUCTION achievements in international conferences and workshops.	Presentations made by the REDUCTION partners are reported.
To establish contacts and develop collaborations related to REDUCTION	Contacts established during the REDUCTION project are reported.
To raise the public awareness of REDUCTION.	Participation of external bodies in the REDUCTION project that helps raise the public awareness of the project is reported.



2. Communication Plan

The key objective of the communication plan is to promote all partners' findings and the results of their ongoing research and development. All partners aim to make their results widely available.

In this communication plan, we identify main target audiences of the REDUCTION project. The identified main target audiences, with selected examples of communication activities for each main target audience, are summarised in Table 2.

Table 2 Summary of Main Target Audiences

Main target audiences	Example communication activities
Governmental authorities, Municipalities, and Public transport organisation (PTO)	<ul style="list-style-type: none"> · Presentations at Strategy meeting for PTO in Denmark 13/1-2014. · Presentations at Board meeting Flexdanmark 26/3 -2014. · Workshop at Strategy meeting for PTO in Denmark 29/4-30/4 2014 · Presentations at Ittrans Karlsruhe 18/2-2014
Science and Technology Communities	<ul style="list-style-type: none"> · Papers published in theoretical and applied machine learning, data mining, and artificial intelligence conferences and journals, such as ECML and AAI, DaWak, PAKDD, ECDA. · Papers published in data and knowledge management conferences and journals, such as PVLDB, TKDE, EDBT, MDM. · Papers published in transportation research conferences and journals, such as TRB.
Policy and Decision Makers, Transportation Agencies	<ul style="list-style-type: none"> · Periodic presentations to the Public Works Department, Cyprus Ministry of Communications and Works Public Works Department, throughout the project duration.
Industrial Suppliers and Industrial Research Companies	<ul style="list-style-type: none"> · Giving a lecture at a big data congress about Digital Road Authority. · Exhibition at Intertraffic, Amsterdam. · Presentations and meetings with industrial suppliers and research companies, such as Bosch and DLR.
SME Fleet Operators	<ul style="list-style-type: none"> · Periodic presentations to the Transportation Organisation of Nicosia District, Costas Papaellinas Organisation, Istognosis Ltd.



General Public	<ul style="list-style-type: none">· Three articles for Greek newspapers about multi-modal travel for CO2 reduction and TRAINOSE's participation in the REDUCTION project.· News and articles in local newspapers and electronic media, such as the DPA German Press Agency, TAZ daily, Sueddeutsche.
Social Media	<ul style="list-style-type: none">· Industrial partners, e.g., TRAINOSE, have social media presences, e.g., Facebook and Twitter.· The promotion of the REDUCTION project by means of these social media.

The outcomes of the REDUCTION project are mainly disseminated to public by attending various events, publishing papers, and giving presentations in prestigious academic conferences, giving demonstration in conferences and exhibitions, and publishing articles in local media and social media. The rationale for choosing a specific communication and dissemination activity (e.g., why REDUCTION partners participated in a particular activity and what the benefit was) is provided in Section 4.

The stakeholders refer to the main target audience. The stakeholders get information on the REDUCTION project from various activities such as by attending presentations, conferences, and congresses, and via reading articles and papers. These activities allow stakeholders to understand the outcomes of the research and field trials conducted in the REDUCTION project. Further, the outcomes of the REDUCTION project are available when stakeholders plan to utilise them in practice.



3. Dissemination Means

3.1 Project Logo

The project logo conveys the project's aim, meaning, and concept. The logo for REDUCTION is considered to be unique, distinctive, and easy to remember. It displays a clear idea of the value of the project and the understanding of its user market. The REDUCTION project logo is presented in Figure 2.

Figure 2 REDUCTION Logo



3.2 Project Website

The project website was developed before the kick-off meeting and has been updated regularly since its launch. The website address is <http://www.REDUCTION-project.eu/>. The website was developed in English. Figure 3 presents the home page of the website. In particular, the website contains the following features:

- The “Home” page states the title, duration, objectives, and expected results of REDUCTION project.
- The “project info” page lists the coordinator and each individual partner of the project. It also presents approach that will be used in the project.
- The “News” page contains an up-to-date listing of events related to the project.
- The “Partners” page displays the partners involved in the project.
- The “Publications” page lists selected publications contributed by REDUCTION partners.



The page also links to three other pages: prototypes, deliverables, and other documents. The prototypes page displays AAU's Eco-Routing Web Portal and FlexDanmark's Eco-Routing Web App; the deliverables page lists all the deliverables reported during the REDUCTION project; and the other documents page links to the REDUCTION fact sheet presented in Section 3.3.

- The “Related Projects” page covers other projects, i.e., PEACOX, ECOMOVE, ICT-Emissions, and eCompass, which have similar objectives to the REDUCTION project.
- The “Contact us” page is designed for people who are interested in the project to get in touch with project members.

Figure 3 Home Page of the REDUCTION Website



The project also has a private online shared workspace. This area allows partners to access, upload, and download documents related to the project. This folder includes all documents related to the physical meetings held regularly, all minutes from the physical meetings and telephone meetings, deliverables that have been submitted to the commission, and internal documents that have been circulated among the partners. User names and passwords are provided to each partner.



3.3 Project Fact Sheet and Poster

A project fact sheet was designed at the time the project started on 1st September 2011, in order to support the promotion of the project at public events and workshops.

The fact sheet provides a brief glance of the project and concisely presents key information on the project. In particular, the fact sheet includes the project name and acronym, project type, program, the project coordinator, the project partners, objectives, approach, description of work, and expected results.

The fact sheet is available from the link:

http://147.172.223.251/reduction/documents/REDUCTION_Project_Factsheet.pdf

A project poster was developed as more and more results from the REDUCTION project have become available. The project poster includes an introduction to the REDUCTION project, logos of the REDUCTION partners, system architecture, and selected contributions.

The poster is available from the link: <http://147.172.223.251/reduction/documents/poster.pdf>.



4. Dissemination Events Scheduling and Reporting

4.1 Dissemination Rationale

The outcomes of the project were mainly disseminated to the public by attending various events, publishing papers and giving presentations in prestigious academic conferences and various types of meetings, giving demonstration in conferences and exhibitions, and publishing articles in local media. Those activities, e.g., those presented in Table 2 and contacts established during the activities, influenced stakeholders the most.

Different work packages have different main dissemination targets. For example, the main objective of WP2 is to develop novel machine learning algorithms for creating predictive analytics models for eco-driving. Thus, the main dissemination targets of WP2 are prestigious machine learning conferences and journals, intelligent transportation system industry linkages, and local newspapers and magazines. The rationale for choosing a specific conference, event, and exhibition is described in detail in the following subsections.

The benefits of these dissemination activities include raising the public awareness of REDUCTION to academic audiences (e.g., publishing papers and giving presentations in prestigious academic conferences), industrial audiences (e.g., demonstrations at exhibitions), governmental audiences (e.g., meeting with road authorities), and citizens (e.g., publishing articles in local newspaper and giving interviews in local TV). Raising the academic audience's awareness makes more researchers to work based on REDUCTION related achievements and to cite REDUCTION related papers, which renders REDUCTION more influential in related research communities. Industrial and governmental audiences may start trying to use REDUCTION related techniques, which will bring financial and social benefits to the REDUCTION partners.

Further, many useful contacts and collaborations were established through the various dissemination activities. These established contacts were able to contribute to the development of REDUCTION related techniques, e.g., collaborating on papers that design advanced eco-routing and eco-driving algorithms.

4.2 The First Year: September, 2011-August, 2012

4.2.1 Publications

Publications that were relevant to REDUCTION, including all published, accepted and submitted documents, are listed in Table 3. The rationale for choosing a specific conference or journal and the main audience of the conference and journal is also described.

Table 3 Publications in Year 1

PUBLICATIONS	
Authors	Leandros Maglaras, Dimitrios Katsaros
Publication Title	Distributed Skip Air Index for Smart Broadcasting in Intelligent Transportation Systems



REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Conference paper
Book title	Proceedings of the IEEE Intelligent Vehicles Symposium (IV), IEEE Intelligent Transportation Systems Society (ITSS)
Date and Year	June 3-7, 2012
Pages	624 – 629
Location	Alcala' de Henares, Madrid, Spain
Status	Published
Publication URL	DOI:10.1109/IVS.2012.6232223 URL: http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6232223
Reason	IV is dedicated to research and applications for Intelligent Vehicles and Vehicle-Infrastructure cooperation. IEEE IV is the premier annual forum sponsored by the IEEE Intelligent Transportation Systems Society.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.

PUBLICATIONS	
Authors	Donatos Stavropoulos, Giannis Kazdaridis, Thanasis Korakis, Dimitrios Katsaros, Leandros Tassioulas
Publication Title	Demonstration of a Vehicle-to-Infrastructure (V2I) Communication Network featuring Heterogeneous Sensors and Delay Tolerant Network Capabilities
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Demo paper with poster
Book title	Proceedings of the 8th International ICST Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM)
Date and Year	June 11-13, 2012
Pages	3
Location	Thessaloniki, Greece
Status	Accepted
Publication URL	http://link.springer.com/chapter/10.1007/978-3-642-35576-9_43#page-1
Reason	The focus of the conference is on activities related to experimentation such as testing, verification, deployment, integration, management and federation of such facilities, as well as experimentation-oriented research based on the implementation of novel schemes on research testbeds.
Main Audiences	Technical experts and researchers from academia, industry and government

PUBLICATIONS	
Authors	Leandros Maglaras, Dimitrios Katsaros
Publication Title	Distributed Clustering in Vehicular Networks
REDUCTION Partner	University of Thessaly, Hellas (UTH)



Publication Type	Workshop paper
Book title	Proceedings of the 2nd IEEE International Workshop on Vehicular Communications and Networking (VECON), In conjunction with the 8th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)
Date and Year	October 8-10, 2012
Pages	7
Location	Barcelona, Spain
Status	Accepted
Publication URL	http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6379136&tag=1
Reason	The workshop is dedicated to recent advances in the area of vehicular wireless communications and networking
Main Audiences	Industry, academia and government agencies

PUBLICATIONS	
Authors	Dimitrios Papakostas, Dimitrios Katsaros
Publication Title	Building Integrity in Ad Hoc Networks: Evaluating a Randomized MIS-based Clustering Algorithm
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal
Book title	Ad Hoc Networks (Elsevier)
Date and Year	N/A
Pages	15
Location	N/A
Status	Under submission
Publication URL	Not yet available
Reason	To publish our approach: Building Integrity in Ad Hoc Networks: Evaluating a Randomised MIS-based Clustering Algorithm.
Main Audiences	Networks and Communication / ITS Researchers

PUBLICATIONS	
Authors	Josif Grabocka, Alexandros Nanopoulos and Lars Schmidt-Thieme
Publication Title	Classification of Sparse Time Series via Supervised Matrix Factorization
REDUCTION Partner	University of Hildesheim (UHI)
Publication Type	Conference
Book title	In Proceedings of the 26th AAAI Conference on Artificial Intelligence (AAAI'2012),
Date and Year	Toronto, Canada
Pages	July 22-26, 2012
Location	Toronto, Canada
Status	Accepted
Publication URL	http://www.aaai.org/Conferences/AAAI/aaai12.php/



Reason	A very prestigious top-ranked conference of Artificial Intelligence interested to applications of AI/ML in Intelligent Transportation
Main Audiences	AI/ML researchers from different application domains.

PUBLICATIONS	
Authors	Josif Grabocka, Alexandros Nanopoulos and Lars Schmidt-Thieme
Publication Title	Invariant Time-Series Classification
REDUCTION Partner	University of Hildesheim (UHI)
Publication Type	Conference paper
Book title	European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)
Date and Year	September 24-28, 2012
Pages	September 24-28, 2012
Location	Bristol, UK
Status	Accepted
Publication URL	www.ecmlpkdd2012.net
Reason	A very prestigious top-ranked conference of Machine Learning interested to applications in Intelligent Transportation
Main Audiences	Machine Learning researchers from different application domains.

PUBLICATIONS	
Authors	Chenjuan Guo, Yu Ma, Bin Yang, Christian S. Jensen, Manohar Kaul
Publication Title	Evaluating Models of Vehicular Environmental Impact
REDUCTION Partner	Aarhus University (AU)
Publication Type	Conference paper
Book title	20th ACM SIGSPATIAL (International Conference on Advances in Geographic Information Systems)
Date and Year	November 6-9 2012
Pages	269-278
Location	Redondo Beach, California, U.S.
Status	Accepted
Publication URL	http://acmgis2012.cs.umd.edu/papers
Reason	A prestigious international conference on geographic information systems and spatio-temporal data management.
Main Audiences	Researchers, developers, users, and practitioners in relation to novel systems based on geo-spatial data and knowledge.

PUBLICATIONS	
Authors	Bin Yang, Manohar Kaul, Christian S. Jensen
Publication Title	Using Incomplete Information for Complete Weight Annotation of Spatial Networks
REDUCTION Partner	Aarhus University (AU)



Publication Type	Peer-review journal (ISSN 1041-4347)
Book title	IEEE Transactions on Knowledge and Data Engineering (TKDE)
Date and Year	2014
Pages	1267-1279
Location	N/A
Status	Published
Publication URL	http://www.computer.org/csdl/trans/tk/2014/05/06527882-abs.html
Reason	A prestigious international journal in data and knowledge engineering.
Main Audiences	Researchers, developers, managers, strategic planners, users, and others interested in state-of-the-art and state-of-the-practice activities in the knowledge and data engineering area.

PUBLICATIONS	
Authors	Ove Andersen, Harry Lahrmann, and Kristian Torp
Publication Title	Estimation of Fuel Consumption based on GPS Data (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Peer-review journal (ISSN 1903-1092)
Book title	Trafik Dage
Date and Year	2012.03.01
Pages	18
Location	Aalborg, Denmark
Status	Accepted
Publication URL	http://www.trafikdage.dk/td/papers/papers10/371_OveAndersen.pdf
Reason	It is a good place to publish material related to ITS and get a very high-degree of visibility in Denmark.
Main Audiences	The national Danish conference gathers about 300 persons each year from research, public authorities, and private industry. The audience has a high interest in projects such as REDUCTION.

PUBLICATIONS	
Authors	Ove Andersen, Benjamin B. Krogh, Harry Lahrmann, and Kristian Torp
Publication Title	Low-Frequent GPS data and OpenStreetMap for Computing travel Times (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Conference paper
Book title	Trafik Dage
Date and Year	2012.08.01
Pages	20
Location	Aalborg, Denmark
Status	Accepted
Publication URL	http://www.trafikdage.dk/papers/soeg/Paper.asp/?PaperID=1673
Reason	It is a good place to publish material related to ITS and get a very high-degree of visibility in Denmark.



Main Audiences	The national Danish conference gathers about 300 persons each year from research, public authorities, and private industry. The audience has a high interest in projects such as REDUCTION.
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PUBLICATIONS	
Authors	Ove Andersen, Benjamin B. Krogh, and Kristian Torp
Publication Title	Trajectories for Novel and Detailed Traffic Information
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Conference paper
Book title	ACM SIGSPATIAL International Workshop on GeoStreaming (IWGS) 2012 November 6, 2012, Redondo Beach, California, USA
Date and Year	2012.07.04
Pages	10
Location	US
Status	Accepted
Publication URL	http://persis.usc.edu/iwgs12/papers.html
Reason	This workshop was co-located with the ACM SIGSPATIAL conference. The workshop therefore is a highly relevant place to publish the results of the REDUCTION project.
Main Audiences	The audience is mainly researchers within the spatio-temporal (ITS) field. These researchers have a very high interest in the REDUCTION project.

PUBLICATIONS	
Authors	Yubin Wang, Jan van Schuppen, Jos Vrancken
Publication Title	On-line Distributed Prediction of Traffic Flow in a Large-Scale Traffic Network
REDUCTION Partner	Trinité Automatisering B.V. (TRI)
Publication Type	Conference
Book title	In Proceedings of 19th ITS world congress vienna, Austria
Date and Year	October 22-26, 2012
Pages	N/A
Location	Vienna, Austria
Status	Accepted
Publication URL	N/A
Reason	The biggest conference in the ITS field.
Main Audiences	Traffic engineer, consultant, contractor, manufacturer

PUBLICATIONS	
Authors	Yubin Wang, Marcel Valé
Publication Title	SARAD REDUCTION
REDUCTION Partner	Trinité Automatisering B.V. (TRI)
Publication Type	Design report
Book title	N/A



Date and Year	14/06/12
Pages	N/A
Location	Uithoorn, the Netherlands
Status	Accepted
Publication URL	N/A

4.2.2 Presentations

Presentations to conferences, workshops or seminars, which mentioned REDUCTION project or describe work done in the project, are listed in Table 4.

Table 4 Presentations in Year 1

PRESENTATIONS	
Presentation Title	GPS and CAN Bus
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company Meeting
Date and Year	2011.09.20
Location	Aalborg, Denmark
Presentation Purpose	Discussion of usage of combination of GPS and CANBus data in the REDUCTION project. Benefit of project is to try to get access to additional GPS and CANBus data resources.

PRESENTATIONS	
Presentation Title	REDUCTION Presentation
REDUCTION Partner	FlexDanmark
Event Title	Meeting with all PlanIT customers
Date and Year	2012.08.05
Location	Göteborg – Sweden
Presentation Purpose	Presented our work with driving times and the eco friendly work in progress

PRESENTATIONS	
Presentation Title	REDUCTION Presentation
REDUCTION Partner	FlexDanmark
Event Title	Meeting with Frogne – Forseti – Concordis Groep – The Netherlands
Date and Year	2012.06.06
Location	Copenhagen, Denmark
Presentation Purpose	Presented our work with driving times and the eco friendly work in progress

PRESENTATIONS	
Presentation Title	REDUCTION Presentation
REDUCTION Partner	FlexDanmark
Event Title	Meeting with Frogne – deliverer of software for taxi companies
Date and Year	2012.04.18
Location	Denmark



Presentation Purpose	Presented our work with driving times and the eco friendly work in progress
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PRESENTATIONS	
Presentation Title	Traffic and Wireless Communication
REDUCTION Partner	Aalborg University (AAU)
Event Title	GN3 Innovation Workshop
Date and Year	2011.10.10
Location	Copenhagen, Denmark
Presentation Purpose	Use of wireless communication in the collection of traffic related data. The benefit of REDUCTION is visibility. There were approximately 30 persons from all over Europe.

PRESENTATIONS	
Presentation Title	A Future GPS Platform (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Regional Funding Meeting for ITS
Date and Year	2011.11.11
Location	Aalborg, Denmark
Presentation Purpose	How to use GPS for intelligent transport systems. In addition, all major regional stakeholders were at the meeting along with several national (Danish) stakeholders.

PRESENTATIONS	
Presentation Title	GPS Data
REDUCTION Partner	Aalborg University (AAU)
Event Title	Volvo Truck Center
Date and Year	2011.12.21
Location	Aalborg, Denmark
Presentation Purpose	How to use GPS for intelligent transport systems of heavy vehicles. Trying to collaborate with partner in the EuroFOT project. Trying to get access to a large set of GPS and CANBus data from heavy vehicles.

PRESENTATIONS	
Presentation Title	ITS Services and the REDUCTION Project
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2012.01.09
Location	Skanderborg, Denmark
Presentation Purpose	Use of low-frequent GPS from heavy vehicles. Trying to get access to a large set of GPS data from a very large Danish transportation company. The company drives all over Europe.



PRESENTATIONS	
Presentation Title	ITS Services and the REDUCTION Project
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2012.03.01
Location	Aalborg, Denmark
Presentation Purpose	Use of low-frequent GPS from heavy vehicles. Feedback from previous meeting with large Danish transportation company.

PRESENTATIONS	
Presentation Title	Ideas for ITS Service for Heavy Trucks
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2012.03.30
Location	Aalborg, Denmark
Presentation Purpose	Use of low-frequent GPS from heavy vehicles. Trying to get access to a large GPS data set from a software house that is providing ITS services to many large Danish transportation companies.

PRESENTATIONS	
Presentation Title	Trajectories Reporting for Duty
REDUCTION Partner	Aalborg University (AAU)
Event Title	Funding meeting
Date and Year	2012.05.29
Location	Aalborg, Denmark
Presentation Purpose	The use of trajectories for detailed traffic information. The purpose is to get access to a very large set of high-frequent GPS data from small vehicles.

PRESENTATIONS	
Presentation Title	An ITS Platform and its Application
REDUCTION Partner	Aalborg University (AAU)
Event Title	Funding meeting
Date and Year	2012.07.02
Location	Chania, Greece
Presentation Purpose	3 hours tutorial at GeoCROWD summer school. Awareness of the REDUCTION project for approximately 20 Ph.D. students from across Europe.
URL	http://people.cs.aau.dk/~torp/geocrowd_slides.pdf

PRESENTATIONS	
Presentation Title	Distributed Skip Air Index for Smart Broadcasting in Intelligent Transportation Systems
REDUCTION Partner	University of Thessaly, Hellas (UTH)



Event Title	Proceedings of the IEEE Intelligent Vehicles Symposium (IV), IEEE Intelligent Transportation Systems Society (ITSS)
Date and Year	June 3-7, 2012
Location	Alcala' de Henares, Madrid, Spain
Presentation Purpose	Exhibition of I2V smart broadcasting capabilities

PRESENTATIONS	
Presentation Title	Demonstration of a Vehicle-to-Infrastructure (V2I) Communication Network featuring Heterogeneous Sensors and Delay Tolerant Network Capabilities
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Event Title	Proceedings of the 8th International ICST Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM)
Date and Year	June 11-13, 2012
Location	Thessaloniki, Greece
Presentation Purpose	Exhibition of V2I communication capabilities

PRESENTATIONS	
Presentation Title	Distributed Clustering in Vehicular Networks
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Event Title	Proceedings of the 2nd IEEE International Workshop on Vehicular Communications and Networking (VECON), In conjunction with the 8th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)
Date and Year	October 8-10, 2012 (forthcoming)
Location	Barcelona, Spain
Presentation Purpose	Exhibition of V2V communication capabilities

PRESENTATIONS	
Presentation Title	EcoMark: Evaluating Models of Vehicular Environmental Impact
REDUCTION Partner	Aarhus University (AU)
Event Title	ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL GIS 2012)
Date and Year	November 6-9, 2012 (forthcoming)
Location	Redondo Beach, CA, USA
Presentation Purpose	Present EcoMark that evaluates 11 state-of-the-art vehicular environmental impact models in the ACM GIS 2012 conference.



4.2.3 Established Contacts

Contacts established by dissemination activities are in Table 5 in this section.

Table 5 Established Contacts in Year 1

Established Contacts	
Established Contacts	Zhongliang Zhao, University of Bern
By which dissemination	Presenting the spring –clustering method at Vecon 2012 confernce
REDUCTION Partner	Uth

Established Contacts	
Established Contacts	Mott MacDonald, Heusch/Boesefeldt GmbH, TRANSCORE,ITERIS,AutoNavi and HUAWEI
By which dissemination	On-line Distributed Prediction of Traffic Flow in a Large-Scale Traffic Network , attending the 19th ITS world congress conference
REDUCTION Partner	TRI

Established Contacts	
Established Contacts	Bosch Germany. (EcoMove Project)
By which dissemination	Presented REDUCTION project to Bosch Corporate Research on 19 Oct 2012
REDUCTION Partner	UHI

Established Contacts	
Established Contacts	DLR (German Aerospace Center)
By which dissemination	Presented REDUCTION project to DLR on 18 Oct 2012
REDUCTION Partner	UHI

Established Contacts	
Established Contacts	PEACOX Project
By which dissemination	Visited PEACOX project at ITS World Congress 2012, in Vienna Austria
REDUCTION Partner	UHI

4.2.4 Public Participation and Awareness

To raise the public awareness of the objectives and results of REDUCTION, external national and international organisations, bodies, and projects that participated in the project, as well as details of their participation, are presented in Table 6.

Table 6 Public Participation and Awareness in Year 1

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Ependitis - Greece's National newspaper



REDUCTION Partner	TRAI NOSE
Event Title	Ecorouting and Multimodality by Using Train
Date and Year	November, 2012
Location	Volos, Hellas
Event Purpose	Newspaper article
Event Description	Dissemination of the REDUCTION project
Event URL	N/A

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Imerisia - Greece's National newspaper
REDUCTION Partner	TRAI NOSE
Event Title	Travel in Greece in an Ecorouting way by using Train
Date and Year	December, 2012
Location	Volos, Hellas
Event Purpose	Newspaper article
Event Description	Dissemination of the REDUCTION project
Event results	N/A
Event URL	N/A

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Danish transportation companies and municipal entities
REDUCTION Partner	FlexDanmark
Event Title	Online driving time
Date and Year	2012.06.01
Location	Aalborg, Denmark
Event Purpose	Making our driving times available for public viewing
Event Description	Online access to finding driving times between two addresses
Event results	N/A
Event URL	Koeretider.flexdanmark.dk

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Region Midtjylland
REDUCTION Partner	FlexDanmark
Event Title	Delivering driving times for publically exposure of rushhours and need of new roads
Date and Year	2012.07.01
Location	Aalborg, Denmark
Event Purpose	Region Midtjylland (middle Jutland) wanted a way to show the government what the status of the roads are - where the rush hour is and where there is a problem with low speed
Event Description	Exported all of our calculated speeds into a roadmap and sent them



Event results	None yet
Event URL	None

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Aalborg Municipal
REDUCTION Partner	FlexDanmark
Event Title	Delivering driving times for a new Flex route
Date and Year	2012.06.01
Location	Aalborg, Denmark
Event Purpose	Aalborg Municipal wanted to start a new flex route driving around town. And they decided to base the driving times on our calculated speeds
Event Description	Calculated driving times between the stops of the route
Event results	Accepted and running
Event URL	None

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Thessaly's local newspaper - TAXYDROMOS
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Event Title	Ecorouting and Multimodality
Date and Year	August, 2012
Location	Volos, Hellas
Event Purpose	Newspaper article
Event Description	Dissemination of the REDUCTION project
Event results	N/A
Event URL	http://www.inf.uth.gr/~dkatsar/papers/REDUCTION_in_Volos_local_press.pdf

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Internet
REDUCTION Partner	Aalborg University (AAU)
Event Title	
Date and Year	2011.12.01
Location	
Event Purpose	Make detailed information about travel-time available to transportation companies in.
Event Description	Release of a creative-commons digital map for all of Denmark with travel-time for each quarter of an hour in the day.
Event results	
Event URL	http://people.cs.aau.dk/~torp/speedmap_current.zip

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Denmark Radio (DR)
REDUCTION Partner	Aalborg University (AAU)



Event Title	Traffic Map for Saving Money (in Danish)
Date and Year	2011.12.05
Location	Denmark
Event Purpose	Short interview on the purpose of the speed map on public radio
Event Description	
Event results	
Event URL	

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Denmark Radio (DR)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Traffic Map for Saving Money (in Danish)
Date and Year	2011.12.05
Location	Denmark
Event Purpose	Story on DR internet site
Event Description	
Event results	
Event URL	http://www.dr.dk/P4/Nord/Nyheder/Nordjylland/2011/12/02/161731.htm

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Hildesheimer Allgemeine Zeitung
REDUCTION Partner	University of Hildesheim (UHI)
Event Title	
Date and Year	August 2012
Location	Hildesheim, Germany
Event Purpose	Press Release for the announcement of REDUCTION Project
Event Description	Press Release Article
Event results	Public Awareness
Event URL	

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	TAZ (daily)
REDUCTION Partner	University of Hildesheim (UHI)
Event Title	diskutieren Forscher, wie Maschinen Lernen
Date and Year	August 1st, 2012
Location	
Event Purpose	
Event Description	
Event results	A press release
Event URL	www.taz.de



PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	The DPA German Press Agency (Chefkorrrespondent editorial Network World)
REDUCTION Partner	University of Hildesheim (UHI)
Event Title	
Date and Year	July 30th, 2012
Location	The conference of the German Classification Society (Gfkl)
Event Purpose	We were able to place the field of economic computer science and machine learning at the University of Hildesheim quite well in the national media, and also the EU project "REDUCTION", which is coordinated by the University of Hildesheim.
Event Description	It reported in addition to the local media: <ul style="list-style-type: none"> - NDR info, Science magazine logo, 3rd August, from 21:00 clock (radio) - Taz - Germany Kultur (started in the fall, which we discuss later) - Dpa news agency, Berlin, Network World - News agency DAPD - The dpa article is currently running in several online media (TIME, Süddeutsche, WORLD, N-TV, Stern, Focus, New Press, Berlin Morning Post, among others to the northern Bavarian Courier).
Event results	
Event URL	http://www.idw-online.de/de/attachmentdata18198.pdf

4.3 The Second Year: September, 2012-August, 2013

4.3.1 Publications

Publications that were relevant to REDUCTION, including all published, accepted and submitted documents, are listed in Table 7. The rationale for choosing a specific conference or journal and the main audience of the conference and journal is also described.

Table 7 Publications in Year 2

PUBLICATIONS	
Authors	Leandros Maglaras, Dimitrios Katsaros
Publication Title	Clustering in Urban Environments: Virtual Forces Applied to Vehicles
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Workshop paper
Book title	In Proceedings of the IEEE Workshop on Emerging Vehicular Networks: V2V/V2I and Railroad Communications (ENV), In conjunction with the IEEE International Conference on Communications (ICC)
Date and Year	June 9-13, 2013
Pages	494-498
Location	Budapest, Hungary
Status	Published (proceedings publication)
Publication URL	http://inf-server.inf.uth.gr/~dkatsar/papers/IEEE_ENV13mk.pdf



Reason	<p>Because the workshop focused on three principal aspects of the communications problem:</p> <ul style="list-style-type: none"> ➤ characterisation of vehicular channel impairments ➤ development of robust MAC and network layer protocols that will ensure efficient use of the limited spectrum to deliver time-critical messages ➤ methods for simulating, characterizing and testing V2V/V2I & T2T/T2I networks
Main Audiences	<p>Researchers, academicians, practitioners, and students from universities, industries and government agencies.</p>

PUBLICATIONS	
Authors	Leandros Maglaras, Dimitrios Katsaros
Publication Title	Enhanced Spring Clustering in VANETs with Obstruction Considerations
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Conference paper
Book title	In Proceedings of the 77th IEEE Vehicular Technology Conference - Spring (VTC-Spring)
Date and Year	June 2-5, 2013
Pages	Not yet available
Location	Dresden, Germany
Status	Published (proceedings publication)
Publication URL	http://inf-server.inf.uth.gr/~dkatsar/papers/IEEE_VTC_Spring13mk.pdf
Reason	<p>This semi-annual flagship conference of the IEEE Vehicular Technology Society brings together individuals from academia, government, and industry that discuss and exchange ideas in the fields of wireless, mobile, and vehicular technology. The conference features world-class plenary speakers, tutorials, and technical as well as application sessions.</p>
Main Audiences	<p>Researchers, academicians, practitioners, and students from universities, industries and government agencies.</p>

PUBLICATIONS	
Authors	Pavlos Basaras, Dimitrios Katsaros, Leandros Tassioulas
Publication Title	Detecting Influential Spreaders in Complex, Dynamic Networks
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal/magazine article
Book title	IEEE Computer magazine
Date and Year	April (vol. 46, no. 4), 2013
Pages	26-31
Location	N/A
Status	Published (magazine article)
Publication URL	http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6477051



Reason	Because it is the IEEE Computer Society's flagship publication, and features technical content covering all aspects of computer science, computer engineering, technology, and applications. IEEE Computer is a resource that practitioners, researchers, and managers can rely on to provide timely information about current research developments, trends, best practices, and changes in the profession. It provides the maximum dissemination possible for an article, since it is issued to all members of the society.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.

PUBLICATIONS	
Authors	Dimitrios Papakostas, Leandros Maglaras, Dimitrios Katsaros
Publication Title	A Rich Dictionary Markov Predictor for Trajectory Forecasting in Vehicular Environments
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal/magazine article
Book title	A major journal on vehicular technology
Date and Year	May 1, 2013
Pages	7 pages
Location	N/A
Status	Submitted
Publication URL	N/A
Reason	Because it is the established international technical reference in its three main areas of interest: mobile radio, automotive electronics, and transportation systems.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.

PUBLICATIONS	
Authors	Leandros Maglaras, Dimitrios Katsaros
Publication Title	Layered Backpressure Routing for Delay REDUCTION in Ad Hoc Networks
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal/magazine article
Book title	A major journal on wireless communications
Date and Year	January 13, 2013
Pages	12 pages
Location	N/A
Status	Submitted
Publication URL	N/A
Reason	Because it is a major archival journal which is committed to the timely publication of high-quality, peer-reviewed, original papers that advance the state-of-the art and applications of wireless communications.



Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.
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PUBLICATIONS	
Authors	Pavlos Basaras, Leandros Maglaras, Dimitrios Katsaros
Publication Title	On the utility of V2V communications to CO ₂ emissions REDUCTION in intelligent transportation systems
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal/magazine article
Book title	A major journal on communications
Date and Year	July 23, 2013
Pages	8 pages
Location	N/A
Status	Submitted
Publication URL	N/A
Reason	Because it is a major magazine issued to all members of the IEEE Communications society and which is committed to the timely publication of high-quality, peer-reviewed, original papers that advance the state-of-the art and applications of communications.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.

PUBLICATIONS	
Authors	YubinWang1, Thom Does2, Umer Khan3, Josif Grabocka3, Lars Schmidt-Thieme3 1. Trinité Automation B.V., Postbus 189, 1420 AD Uithoorn, The Netherlands and the Faculty of Technology, Policy and Management, Delft University of Technology, 2600 GA Delft, The Netherlands. yubin.wang@tudelft.nl 2. Trinité Automation B.V., Postbus 189, 1420 AD Uithoorn, The Netherlands. 3. Information Systems and Machine Learning Lab, Institute of Computer science, Department of Mathematics, Natural Science, Economics and Computer Science, University of Hildesheim.
Publication Title	An app to contribute on CO ₂ emission REDUCTION
REDUCTION Partner	Trinité Automation & University of Hildesheim
Publication Type	Technical Paper
Book title	ITS World Congress 2013
Date and Year	January 2013
Pages	8
Location	Tokyo



Status	Conditionally Accepted
Publication URL	Not available yet
Reason	Exposure about REDUCTION on the worlds most visited ITS exhibition and Congres
Main Audiences	The ITS World Congress attracts in average over 10,000 senior ITS professional visitors, from more than 60 countries worldwide.

PUBLICATIONS	
Authors	Bin Yang, Nicolas Fantini, and Christian S. Jensen
Publication Title	iPark: Identifying Parking Spaces from Trajectories
REDUCTION Partner	Aarhus University (AU)
Publication Type	Conference demonstration paper
Book title	The 16th International Conference on Extending Database Technology (EDBT)
Date and Year	March 2013
Pages	705-708
Location	Genoa, Italy
Status	Published
Publication URL	http://dl.acm.org/citation.cfm?id=2452459
Reason	The EDBT series of conferences is an established and prestigious forum for the exchange of the latest research results in data management.
Main Audiences	database researchers, practitioners, developers, and users

PUBLICATIONS	
Authors	Manohar Kaul, Bin Yang, and Christian S. Jensen.
Publication Title	Building Accurate 3D Spatial Networks to Enable Next Generation Intelligent Transportation Systems.
REDUCTION Partner	Aarhus University (AU)
Publication Type	Conference research full paper
Book title	The 14th International Conference on Mobile Data Management (MDM)
Date and Year	June 2013
Pages	137-146
Location	Milan, Italy
Status	Published, Wins the best paper award!
Publication URL	http://cs.au.dk/~mkaul/papers/mdm.pdf
Reason	The MDM series of conferences has established itself as a prestigious forum for the exchange of innovative and significant research results in mobile data management.
Main Audiences	Researchers, engineers, practitioners, developers, and users in the area of mobile data management.



PUBLICATIONS	
Authors	Ove Andersen, Christian S. Jensen, Kristian Torp and Bin Yang
Publication Title	EcoTour: Reducing the environmental footprint of vehicles using eco-routes.
REDUCTION Partner	Aarhus University (AU) and Aalborg University (AAU)
Publication Type	Conference demonstration paper
Book title	The 14th International Conference on Mobile Data Management (MDM)
Date and Year	June 2013
Pages	338-340
Location	Milan, Italy
Status	Published, Wins the best demo award!
Publication URL	N/A
Reason	The MDM series of conferences has established itself as a prestigious forum for the exchange of innovative and significant research results in mobile data management.
Main Audiences	Researchers, engineers, practitioners, developers, and users in the area of mobile data management.

PUBLICATIONS	
Authors	Bin Yang, Chenjuan Guo and Christian S. Jensen.
Publication Title	Travel Cost Inference from Sparse, Spatio-Temporally Correlated Time Series Using Markov Models
REDUCTION Partner	Aarhus University (AU)
Publication Type	Conference demonstration paper
Book title	The 39th International Conference on Very Large Data Bases (VLDB).
Date and Year	August 2013
Pages	12 pages
Location	Riva del Garda, Trento, Italy
Status	Accepted
Publication URL	NA
Reason	VLDB is a premier annual international forum for data management and database researchers, vendors, practitioners, application developers, and users.
Main Audiences	data management and database researchers, vendors, practitioners, application developers, and users.

PUBLICATIONS	
Authors	Manohar Kaul, Raymond Chi-Wing Wong, Bin Yang and Christian S. Jensen.
Publication Title	Finding Shortest Paths on Terrains by Killing Two Birds with One Stone
REDUCTION Partner	Aarhus University (AU)



Publication Type	Conference demonstration paper
Book title	The 40th International Conference on Very Large Data Bases (VLDB)
Date and Year	September 2014
Pages	12 pages
Location	Hangzhou, China
Status	Accepted
Publication URL	N/A
Reason	VLDB is a premier annual international forum for data management and database researchers, vendors, practitioners, application developers, and users.
Main Audiences	Data management and database researchers, vendors, practitioners, application developers, and users.

PUBLICATIONS	
Authors	Bin Yang, Manohar Kaul and Christian S. Jensen.
Publication Title	Using Incomplete Information for Complete Weight Annotation of Road Networks
REDUCTION Partner	Aarhus University (AU)
Publication Type	Journal paper
Book title	IEEE Transactions on Knowledge and Data Engineering (TKDE)
Date and Year	Accepted in May 2013
Pages	14 pages
Location	N/A
Status	On-line pre-print
Publication URL	http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6527882&tag=1
Reason	<i>IEEE Transactions on Knowledge and Data Engineering (TKDE)</i> is an archival journal published monthly designed to inform researchers, developers, managers, strategic planners, users, and others interested in state-of-the-art and state-of-the-practice activities in the knowledge and data engineering area.
Main Audiences	Researchers, developers, managers, strategic planners, users, and others interested in state-of-the-art and state-of-the-practice activities in the knowledge and data engineering area.

PUBLICATIONS	
Authors	Josif Grabocka, Erind Bedalli, Lars Schmidt-Thieme
Publication Title	Efficient Classification of Long Time Series
REDUCTION Partner	UHI
Publication Type	Conference Paper
Book title	Proceedings of ICT Innovations 2012, Springer, Advances in Intelligent Systems and Computing
Date and Year	May 2013 (Proceedings)
Pages	Volume 207, pages 47-57



Location	Ohrid, Macedonia
Status	Accepted
Publication URL	http://link.springer.com/chapter/10.1007%2F978-3-642-37169-1_5
Reason	ICT is a multidisciplinary conference which offers collaboration opportunities with experts from a diverse range of domains
Main Audiences	Machine Learning, Data Mining, Information Security, Information Technology, Speech Recognition experts

PUBLICATIONS	
Authors	Josif Grabocka, Lucas Drumond, Lars Schmidt-Thieme
Publication Title	Supervised Dimensionality REDUCTION Via Nonlinear Target Estimation
REDUCTION Partner	UHI
Publication Type	Conference Paper
Book title	Proceedings of the 15th International Conference on Data Warehousing and Knowledge Discovery, DaWaK 2013
Date and Year	August 2013
Pages	N/A
Location	Prague, Czech Republic
Status	Accepted
Publication URL	http://www.ismll.uni-hildesheim.de/pub/pdfs/grabocka2013b-dawak.pdf
Reason	DaWak is a leading conference in the domains of data warehousing, processing of very large data and data mining
Main Audiences	Data Warehousing, Data Mining, Machine Learning professionals

PUBLICATIONS	
Authors	Benjamin B. Krogh, Ove Andersen, and Kristian Torp
Publication Title	Trajectories for Novel and Detailed Traffic Information
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Peer-review journal (ISSN 1903-1092)
Book title	ACM SIGSPATIAL Workshop IWGS
Date and Year	2012.11.06
Pages	10
Location	Los Angeles, USA
Status	Accepted
Publication URL	N/A
Purpose	Workshop paper for the ACM SIGSPATIAL GIS conference. Got Best Paper Award

PUBLICATIONS	
Authors	Ove Andersen, Benjamin B. Krogh Harry Lahrmann, and Kristian Torp



Publication Title	Fastest Versus most Fuel-Efficient Route (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Peer-review journal (ISSN 1903-1092)
Book title	Trafik Dage
Date and Year	2013.03.01
Pages	12
Location	Aalborg, Denmark
Status	Accepted
Publication URL	N/A
Purpose	The national Danish conference gathers about 300 persons each year from research, public authorities, and private industry. It is a good place to publish material related to ITS and get a very high-degree of visibility in Denmark. The audience has a high interest in project such as REDUCTION.

PUBLICATIONS	
Authors	Shah, R. N. Ruiz-Juri, K.C. Mouskos, M.Levin, E. Jafari,
Publication Title	Exploring Short-Term System Implications and Performance Evaluation of a Mesoscopic Dynamic Traffic Assignment-based Eco-Routing Model
REDUCTION Partner	Kyriacos C. Mouskos, CTL Cyprus Transport Logistics Ltd.
Publication Type	Journal paper, and/or conference proceedings, and/or presentation Under review
Book title	N/A
Date and Year	01/2014
Pages	N/A
Location	93rd Annual Meeting of the Transportation Research Board, January 2014, Washington D.C.
Status	e.g., under submission, accepted, journal/proceeding publication
Publication URL	N/A
Reason	TRB is the largest transportation conference in the world attracting 11,000 attendees each January at Washington DC
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.

4.3.2 Presentations

Presentations to conferences, workshops or seminars, which mentioned REDUCTION project or describe work done in the project, are listed in Table 8.

Table 8 Presentations in Year 2

PRESENTATIONS	
Presentation Title	Clustering in Urban Environments: Virtual Forces Applied to Vehicles
REDUCTION Partner	University of Thessaly, Hellas (UTH)



Event Title	Proceedings of the IEEE Workshop on Emerging Vehicular Networks: V2V/V2I and Railroad Communications (ENV), In conjunction with the IEEE International Conference on Communications (ICC)
Date and Year	June 9-13, 2013
Location	Budapest, Hungary
Presentation Purpose	How to form stable clusters for creating two-layer architecture over a flat vehicular ad hoc network. In particular, the presentation described how to exploit vehicle's position, geometry, relative velocity and vehicle's lane for forming clusters.

PRESENTATIONS	
Presentation Title	Enhanced Spring Clustering in VANETs with Obstruction Considerations
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Event Title	The 77th IEEE Vehicular Technology Conference - Spring (VTC-Spring)
Date and Year	June 2-5, 2013
Location	Dresden, Germany
Presentation Purpose	How to form stable clusters for creating two-layer architecture over a flat vehicular ad hoc network. In particular, the presentation demonstrated by simulations the impact of obstructions which are omnipresent in real vehicular environments and propose appropriate solutions.

PRESENTATIONS	
Presentation Title	iPark: Identifying Parking Spaces from Trajectories
REDUCTION Partner	Aarhus University (AU)
Event Title	The 16th International Conference on Extending Database Technology (EDBT)
Date and Year	March 18-22, 2013
Location	Genoa, Italy
Presentation Purpose	Demonstrate iPark in the EDBT 2013 conference.

PRESENTATIONS	
Presentation Title	EcoTour: Reducing the environmental footprint of vehicles using eco-routes.
REDUCTION Partner	Aarhus University (AU) and Aalborg University (AAU)
Event Title	The 14th International Conference on Mobile Data Management (MDM)
Date and Year	June 3-6, 2013
Location	Milan, Italy
Presentation Purpose	Present EcoTour in the MDM 2013 conference.

PRESENTATIONS	
Presentation Title	Building Accurate 3D Spatial Networks to Enable Next Generation Intelligent Transportation Systems.



REDUCTION Partner	Aarhus University (AU)
Event Title	The 14th International Conference on Mobile Data Management (MDM)
Date and Year	June 3-6, 2013
Location	Milan, Italy
Presentation Purpose	Present a paper that lifts a 2D spatial network to a 3D spatial network using laser scan data in the MDM 2013 conference.

PRESENTATIONS	
Presentation Title	Travel Cost Inference from Sparse, Spatio-Temporally Correlated Time Series Using Markov Models
REDUCTION Partner	Aarhus University (AU)
Event Title	The 39th International Conference on Very Large Data Bases (VLDB).
Date and Year	August 26-30, 2013
Location	Riva del Garda, Trento, Italy
Presentation Purpose	Present a paper that is able to predict near future travel time and GHG emissions based on historical GPS data in the VLDB 2013 conference.

PRESENTATIONS	
Presentation Title	An academic visit to Renmin University
REDUCTION Partner	Aarhus University (AU)
Event Title	An academic visit to Renmin University.
Date and Year	29 June -9 July, 2013
Location	Beijing, China
Presentation Purpose	An academic visit to Renmin University.

PRESENTATIONS	
Presentation Title	Intelligent Transport Systems Case Study
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company Meeting
Date and Year	2012.09.21
Location	Copenhagen, Denmark
Presentation Purpose	Discussion of usage of combination of GPS and CANBus data in the REDUCTION project. Board meeting of Transport Industriens Innovations Network (National Danish network on transportation in general).

PRESENTATIONS	
Presentation Title	GPS and CANBus Data, Case Study
REDUCTION Partner	Aalborg University (AAU)
Event Title	Meeting
Date and Year	2012.09.27
Location	Aarhus, Denmark



Presentation Purpose	Possibilities with GPS/CANBus data for larger municipalities and consultancy companies in Denmark.
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PRESENTATIONS	
Presentation Title	Analysis of GPS and CANBus data (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company Meeting
Date and Year	2012.10.02
Location	Møltrup, Denmark
Presentation Purpose	Presentation of possibilities with GPS/CANBus data for bus company and GPS/CANBus supplier.

PRESENTATIONS	
Presentation Title	Analysis of GPS and CANBus data (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company Meeting
Date and Year	2012.10.19
Location	Viborg, Denmark
Presentation Purpose	Presentation of possibilities with GPS/CANBus data for bus company and GPS/CANBus supplier.

PRESENTATIONS	
Presentation Title	Daisy Innovation Case Studies
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2012.11.15
Location	Aalborg, Denmark
Presentation Purpose	Presentation of GPS/CANBus possibilities and first public demo of web-site for software prototype. Region North Denmark, municipalities, number of companies.

PRESENTATIONS	
Presentation Title	GPS data for Analysing Congestion (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Conference presentation (Vejforum 2012)
Date and Year	2012.12.05
Location	Nyborg, Denmark
Presentation Purpose	Presentation of software prototype and the usage for estimating traffic congestion on a large Danish conference for road usage.

PRESENTATIONS	
Presentation Title	Shortest, Fastest and most "Green" Routes



REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2012.12.10
Location	Aalborg, Denmark
Presentation Purpose	Meeting with Aalborg Municipality about possibilities with GPS and CANBus data.

PRESENTATIONS	
Presentation Title	ITS Case Studies and Ideas
REDUCTION Partner	Aalborg University (AAU)
Event Title	Funding meeting
Date and Year	2013.01.25
Location	Aalborg, Denmark
Presentation Purpose	Meeting with Danish Transport and Logistics (DTL) and Transport Industriens Innovationsnetwork on possibilities for collaboration and future funding.

PRESENTATIONS	
Presentation Title	An ITS Platform and its Application
REDUCTION Partner	Aalborg University (AAU)
Event Title	Funding meeting
Date and Year	2013.01.28
Location	Aalborg, Denmark
Presentation Purpose	Meeting within the Danish InfinIT network for collaboration and joint funding.

PRESENTATIONS	
Presentation Title	Road Pricing Prototype
REDUCTION Partner	Aalborg University (AAU)
Event Title	Funding meeting
Date and Year	2013.04.02
Location	Copenhagen, Denmark
Presentation Purpose	Discussion with Danish Ministry of Transport about using GPS for road pricing and reusing parts of software prototype built in REDUCTION project.

PRESENTATIONS	
Presentation Title	Road Pricing
REDUCTION Partner	Aalborg University (AAU)
Event Title	Funding meeting
Date and Year	2013.05.03
Location	Aalborg, Denmark



Presentation Purpose	Discussion with the Congestion Commission (Danish Ministry of Transport) about using GPS for road pricing and reusing parts of software prototype built in REDUCTION project.
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PRESENTATIONS	
Presentation Title	ITS and Fuel Consumption (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Conference presentation
Date and Year	2013.05.22
Location	Copenhagen, Denmark
Presentation Purpose	Presentation of possibilities with GPS/CANBus data and fuel REDUCTION at larger Danish event. Many organisations and companies.

PRESENTATIONS	
Presentation Title	ITS Case Studies and Ideas (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company Meeting
Date and Year	2013.06.11
Location	Aalborg, Denmark
Presentation Purpose	Follow-up meeting with DTL about collaboration and joint funding of projects.

PRESENTATIONS	
Presentation Title	GPS/CANBus Data Ideas (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2013.07.01
Location	Vamdrup, Denmark
Presentation Purpose	Presentation of possibilities with GPS/CANBus data and fuel with 5 Danish transport companies (small and medium size companies).

PRESENTATIONS	
Presentation Title	Path-based Travel-Time
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2013.07.02
Location	Aalborg, Denmark
Presentation Purpose	Presentation of using trip data instead of point data with large Danish consultancy company.



PRESENTATIONS	
Presentation Title	Intelligent Transport Systems Case Study
REDUCTION Partner	Flexdanmark (BEK)
Event Title	Company Meeting
Date and Year	2012.11.13
Location	Stockholm, Sweden
Presentation Purpose	Discussion of usage of GPS/CANBus data in the optimising Taxi planning and paying for CO2 REDUCTION. Board meeting of SUTI

PRESENTATIONS	
Presentation Title	GPS Data, Case Study
REDUCTION Partner	Flexdanmark (BEK)
Event Title	Meeting
Date and Year	2012.12.09
Location	Aalborg, Denmark
Presentation Purpose	Use of GPS drivingtime estimations in Denmark for public transport.

PRESENTATIONS	
Presentation Title	Use of of GPS and CANBus data (in Danish)
REDUCTION Partner	Flexdanmark (BEK)
Event Title	Meeting with suppliere
Date and Year	2012.12.19
Location	Gøteborg, Sweden
Presentation Purpose	Presentatin of possibilities with GPS/CANBus data for taxi planers.

4.3.3 Established Contacts

Contacts established by dissemination activities are listed in Table 9 in this section.

Table 9 Established Contacts in Year 2

Established Contacts	
Established Contacts	Vice-governor of the Region of Thessaly, Rena Karalariotou
By which dissemination	By personal contact
REDUCTION Partner	UTH

Established Contacts	
Established Contacts	Prof. Xiaofang Zhou, Queensland University, Australia.



By which dissemination	Academic visit to Renmin University.
REDUCTION Partner	AU

Established Contacts	
Established Contacts	Prof. Jian Li, Tsinghua University, China.
By which dissemination	Academic visit to Renmin University.
REDUCTION Partner	AU

Established Contacts	
Established Contacts	Dr. Hoyoung Yeung, SAP, Brisband, Australia.
By which dissemination	Academic visit to Renmin University.
REDUCTION Partner	AU

Established Contacts	
Established Contacts	The company C.A. Papaellinas & Co Ltd Nicosia, Cyprus (Mr. Andreas Adamides,CFC) has been briefed on the REDUCTION project and has agreed to participate given that they have started installing their own fleet management system in July, 2013. Istognosis Ltd. (Ioannis Constantinou) company will cooperate with CTL in developing a system to gather the corresponding CANbus data for up to 68 delivery vehicles. The main objective is to develop driver profiles on driving fuel consumption and sudden acceleration and recommend more efficient driving techniques. CTL informed Papaellinas that the REDUCTION consortium will aid in the development of guidelines to reduce fuel consumption via more efficient driving practices.
By which dissemination	Several face-to-face meetings with C.A. Papaellinas & Co Ltd and Istognosis Ltd. in April - August, 2013
REDUCTION Partner	CTL, DDE

4.3.4 Public Participation and Awareness

To raise the public awareness of the objectives and results of REDUCTION, external national and international organisations, bodies, and projects that participated in the project, as well as details of their participation, are presented in Table 10.

Table 10 Public Participation and Awareness in Year 2

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Thessaly's local newspaper – ELEFThERIA
REDUCTION Partner	University of Thessaly (UTH)
Event Title	Innovative projects by the Department of Computer & Communications Engineering of the University of Thessaly



Date and Year	March 17, 2013
Location	Larissa, Greece
Event Purpose	Newspaper article
Event Description	Dissemination of the REDUCTION project
Event results	N/A
Event URL	http://www.inf.uth.gr/~dkatsar/papers/REDUCTION_in_Larisa_local_presentation.pdf

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	European Commission, FP7 Program
REDUCTION Partner	UHI
Event Title	Monitoring of the IST R&D Implementation
Date and Year	10/05/2013
Location	Brussels, Belgium
Event Purpose	Survey of EC FP7 Projects' Progress
Event Description	Dissemination of the REDUCTION project

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Internet
REDUCTION Partner	Aalborg University (AAU)
Event Title	Prototype launch
Date and Year	2012.11.15
Location	N/A
Event Purpose	Prototype launch
Event Description	Released first version of prototype built in REDUCTION with travel-time and congestion
Event results	N/A
Event URL	http://daisy.aau.dk/its

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Internet
REDUCTION Partner	Aalborg University (AAU)
Event Title	Prototype update
Date and Year	2013.03.15
Location	N/A
Event Purpose	Prototype update
Event Description	Updated prototype with fastest, shortest and most fuel-efficient routes
Event results	N/A
Event URL	http://daisy.aau.dk/its

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Internet
REDUCTION Partner	Aalborg University (AAU)
Event Title	Prototype launch



Date and Year	2013.06.30
Location	N/A
Event Purpose	Prototype launch
Event Description	Launch of advanced, high-performance prototype using both trip and point data
Event results	N/A
Event URL	http://daisy.aau.dk/its/spqdemo

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	(Jyllands-Posten) (Jyllands-Posten) (Politiken.dk) (Jp.dk (Jyllands-Posten))
REDUCTION Partner	Aalborg University (AAU)
Event Title	Researchers Map Congestion Problems (in Danish)
Date and Year	2012.12.16
Location	Denmark
Event Purpose	How GPS data used to find congestion in traffic.
Event Description	How GPS data used to find congestion in traffic.
Event results	N/A
Event URL	http://vbn.aau.dk/da/clippings/forskere-kortlaegger-trafikpropper(ca6b046f-f478-4ac9-a21d-b8d0c979f705).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Ing.dk (Ingeniøren)) (Ing.dk (Ingeniøren)) (Ing.dk (Ingeniøren)) (TV2/Finans Online) (Ing.dk (Ingeniøren))
REDUCTION Partner	Aalborg University (AAU)
Event Title	Researchers Map Danish Congestion (in Danish)
Date and Year	2012.12.17
Location	Denmark
Event Purpose	How GPS data used to find congestion in traffic.
Event Description	How GPS data used to find congestion in traffic.
Event results	N/A
Event URL	http://vbn.aau.dk/da/clippings/forskere-har-kortlagt-de-danske-trafikpropper(191f7f35-d52d-4f59-9b47-49a5a9402c9a).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Mja.dk
REDUCTION Partner	Aalborg University (AAU)
Event Title	Researchers find: Ringvejen in Silkeborg is Congested (in Danish)
Date and Year	2012.12.18
Location	Denmark
Event Purpose	How GPS data used to find congestion in traffic.
Event Description	How GPS data used to find congestion in traffic.
Event URL	http://vbn.aau.dk/da/clippings/forskere-har-talt-ringvejen-i-silkeborg-er-et-helvede(491f7840-2a15-4f84-9ffa-38366db17cd3).html



PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	JydskeVestkysten
REDUCTION Partner	Aalborg University (AAU)
Event Title	Obbekærvej is a statistical joke (in Danish)
Date and Year	2012.12.19
Location	Denmark
Event Purpose	How GPS data used to find congestion in traffic.
Event Description	How GPS data used to find congestion in traffic.
Event URL	http://vbn.aau.dk/da/clippings/obbekaervej-er-en-statistisk-vittighed(f7565283-6e1f-4d2d-b391-6e574a759f13).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Ue.dk (UgensErhverv)) (Ue.dk (UgensErhverv)) (Elek-Data.dk (Elektronik & Data)) (Metroxpress.dk) (BT.dk) (TV2Fyn.dk) (FyensStiftstidende.dk) (DR.dk)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Smart Usage of GPS Data Reveals Trafic Jams (in Danish)
Date and Year	2012.12.20
Location	Denmark
Event Purpose	How GPS data used to find congestion in traffic.
Event Description	How GPS data used to find congestion in traffic.
Event URL	http://vbn.aau.dk/da/clippings/smart-brug-af-gpsdata-afsloerer-trafikproblemer(4511a797-f086-4a26-ab81-cee3f6e0b354).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Dagbladet Ringsted
REDUCTION Partner	Aalborg University (AAU)
Event Title	Lies, Damn Lies and Statistics (in Danish)
Date and Year	2012.12.20
Location	Denmark
Event Purpose	How GPS data used to find congestion in traffic.
Event Description	How GPS data used to find congestion in traffic.
Event URL	http://vbn.aau.dk/da/clippings/loegn-forbandet-loegn-og-statistik(6a33151e-f5c8-4b91-8fe1-96fa35f502b4).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	(Dinby.dk) (Østerbro Avis) (Østerbro Avis) (FuresoeAvis.dk) (Loerdagsavisen.dk (Lørdagsavisen Køge)) (Dinby.dk)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Less Traffic on Minor Roads- More on Strandøre (in Danish)
Date and Year	2012.12.28
Location	Denmark
Event Purpose	How GPS data used to find congestion in traffic.
Event Description	How GPS data used to find congestion in traffic.



Event URL	http://vbn.aau.dk/da/clippings/mindre-trafik-paa-sideveje--mere-paa-strandoere(231993e3-1ea6-4da4-9e7f-294af5cb2540).html
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PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	BT.dk (Frederiksborg Amts Avis) (TV2Fyn.dk) (FyensStiftstidende.dk) (Hoersholm.lokalavisen.dk (Ugebladet Hørsholm)) (Fredensborg.Lokalavisen.dk) (Rudersdal.lokalavisen.dk) (Villabyerne.dk) (Egedal.lokalavisen.dk (Lokalavisen Egedal)) (Dgo.dk (Det Grønne Område)) (RoskildeMediecenter.dk) (Lokalavisen.dk (Politikens Lokalaviser)) (HvidovreAvis.dk) (Albertslundposten.dk) (FrederikssundAvis.dk) (AllerodNyt.dk) (Hip.dk (HillerødPosten)) (Dinby.dk) (Dk.MSN.com (MSN Danmark)) (DR.dk) (Ue.dk (UgensErhverv)) (Elek-Data.dk (Elektronik & Data)) (Metroxpress.dk) (Ue.dk (UgensErhverv))
REDUCTION Partner	Aalborg University (AAU)
Event Title	Smart Usage of GPS Data Reveals Traffic Problems (in Danish)
Date and Year	2012.12.27
Location	Denmark
Event Purpose	How GPS data used to find congestion in traffic.
Event Description	How GPS data used to find congestion in traffic.
Event URL	http://vbn.aau.dk/da/clippings/smart-brug-af-gpsdata-afsloerer-trafikproblemer(b763d4a5-d309-4476-8b7c-eaae9070dd05).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Kolding Ugeavis) (Kolding Ugeavis)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Taxis and Mini Busses Reveals Traffic Jams in Kolding (in Danish)
Date and Year	2013.01.13
Location	Denmark
Event Purpose	How GPS data used to find congestion in traffic.
Event Description	How GPS data used to find congestion in traffic.
Event URL	http://vbn.aau.dk/da/clippings/taxier-og-minibusser-afsloerer-trafikkaos-i-kolding(d32ae01c-5dce-43e3-a3db-98d35f38eb59).html

4.4 The Third Year: September, 2013 - August, 2014

4.4.1 Publications

Publications that were relevant to REDUCTION, including all published, accepted and submitted documents, are listed in Table 11. The rationale for choosing a specific conference or journal and the main audience of the conference and journal is also described.

Table 11 Publications in Year 3

PUBLICATIONS	
Authors	Umer Khan, Alexandros Nanopoulos, Lars Schmidt-Thieme



Publication Title	P2P RVM for Distributed Classification
REDUCTION Partner	University of Hildesheim
Publication Type	Conference Paper
Book title	Proceedings of the European Conference on Data Analysis, ECDA 2013
Date and Year	10-12 July 2014
Pages	N/A
Location	Luxemburg
Status	Accepted
Publication URL	N/A
Reason	Important conference on the fields of Data Mining and Knowledge Discovery
Main Audiences	Researchers and practitioners on the domains of Data Mining and Machine Learning

PUBLICATIONS	
Authors	Umer Khan, Alexandros Nanopoulos, Lars Schmidt-Thieme, Pavlos Basaras, Dimitrios Katsaros
Publication Title	Analyzing Cooperative Lane Change Models for Connected Vehicles
REDUCTION Partner	University of Hildesheim, University of Thessaly, Hellas (UTH)
Publication Type	Conference Paper
Book title	Proceedings of the International Conference on Connected Vehicles and Expo (ICCVE'14)
Date and Year	3-7 November 2014
Pages	N/A
Location	Vienna, Austria
Status	Accepted
Publication URL	N/A
Reason	Primary conference on connected vehicles and V2V technologies
Main Audiences	Researchers, industry experts and interested parties on V2V technologies

PUBLICATIONS	
Authors	Josif Grabocka, Nicolas Schilling, Martin Wistuba, Lars Schmidt-Thieme
Publication Title	Learning Time-Series Shapelets
REDUCTION Partner	University of Hildesheim
Publication Type	Conference Paper
Book title	Proceedings of the 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining
Date and Year	24-17 August 2014
Pages	N/A
Location	New York, USA



Status	Accepted
Publication URL	If exists; official publisher URL preferable
Reason	The top-most conference in the field of Data Mining and Knowledge Discovery
Main Audiences	Top researchers and companies of Data Mining and Machine Learning

PUBLICATIONS	
Authors	Josif Grabocka, Erind Bedalli, Lars Schmidt-Thieme
Publication Title	Supervised Nonlinear Factorizations Excel In Semi-supervised Regression
REDUCTION Partner	University of Hildesheim
Publication Type	Conference paper
Book title	Proceedings of the 18th Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2014
Date and Year	10-13 May 2014
Pages	188-199
Location	Tainan, Taiwan
Status	Accepted
Publication URL	http://link.springer.com/book/10.1007%2F978-3-319-06608-0
Reason	Internationally recognised conference on the fields of Data Mining and Knowledge Discovery
Main Audiences	Experts and Researchers on Data Mining and Knowledge Discovery

PUBLICATIONS	
Authors	Josif Grabocka, Lars Schmidt-Thieme
Publication Title	Invariant Time-Series Factorization
REDUCTION Partner	University of Hildesheim
Publication Type	Journal paper
Book title	Journal of Data Mining and Knowledge Discovery
Date and Year	July 2014
Pages	N/A
Location	N/A
Status	Accepted
Publication URL	http://link.springer.com/article/10.1007%2Fs10618-014-0364-z
Reason	The top-most journal in the field of Data Mining
Main Audiences	Researchers

PUBLICATIONS	
Authors	Josif Grabocka, Lars Schmidt-Thieme
Publication Title	Learning Through Non-linearly Supervised Dimensionality Reduction



REDUCTION Partner	University of Hildesheim
Publication Type	Journal paper
Book title	Journal of Transactions on Large-Scale Data- and Knowledge-Centered Systems (TLDKS), Springer LNCS
Date and Year	July 2014
Pages	N/A
Location	N/A
Status	Accepted subject to minor revision
Publication URL	N/A
Reason	Internationally recognised journal in the field of Data Warehousing and Knowledge Extraction
Main Audiences	Researchers

PUBLICATIONS	
Authors	Josif Grabocka, Lars Schmidt-Thieme
Publication Title	Mining Fuel-Inefficient Driving From GPS Trajectories Behaviors
REDUCTION Partner	University of Hildesheim
Publication Type	Conference paper
Book title	European Conference on Data Analysis, ECDA 2014
Date and Year	2-4 July 2014
Pages	N/A
Location	N/A
Status	Accepted Abstract, Full submission to be forwarded
Publication URL	N/A
Reason	Important conference on the fields of Data Mining and Knowledge Discovery
Main Audiences	Researchers and practitioners on the domains of Data Mining and Machine Learning

PUBLICATIONS	
Authors	Josif Grabocka, Alexandros Dalkalitsis, Athanasios Lois, Evangelos Katsaros and Lars Schmidt-Thieme
Publication Title	Realistic Optimal Policies For Energy-Efficient Train Driving
REDUCTION Partner	University of Hildesheim
Publication Type	Conference paper
Book title	IEEE Conference on Intelligent Transportation Systems, ITSC 2014
Date and Year	8-11 October 2014
Pages	N/A
Location	N/A
Status	Accepted



Publication URL	N/A
Reason	Flagship conference on ITS research
Main Audiences	Researchers and practitioners on the domains of ITS

PUBLICATIONS	
Authors	Josif Grabocka, Martin Wistuba, Lars Schmidt-Thieme
Publication Title	Scalable Classification of Repetitive Time Series Through Frequencies of Local Polynomials
REDUCTION Partner	University of Hildesheim
Publication Type	Journal paper
Book title	Journal of IEEE Transaction on Knowledge and Data Engineering
Date and Year	2014
Pages	N/A
Location	N/A
Status	Submitted major revision
Publication URL	N/A
Reason	Internationally recognised journal in the field of Data Warehousing and Knowledge Extraction
Main Audiences	Researchers

PUBLICATIONS	
Authors	Yu Ma, Bin Yang, Christian S. Jensen
Publication Title	Enabling time-dependent uncertain eco-weights for road networks
REDUCTION Partner	Aarhus University
Publication Type	Conference Paper
Book title	First International ACM Workshop on Managing and Mining Enriched Geo-Spatial Data
Date and Year	27 June 2014
Pages	N/A
Location	Snowbird, USA
Status	Published
Publication URL	N/A
Reason	Workshop of leading conference on the fields of data management
Main Audiences	Researchers and practitioners on the domains of geo-spatial data management



PUBLICATIONS	
Authors	Chenjuan Guo, Bin Yang, Ove Andersen, Christian S. Jensen, Kristian Torp
Publication Title	EcoMark 2.0: Empowering Eco-Routing with Vehicular Environmental Models and Actual Vehicle Fuel Consumption Data
REDUCTION Partner	Aarhus University
Publication Type	Journal Paper
Book title	Geoinformatica
Date and Year	N/A
Pages	N/A
Location	N/A
Status	In submission
Publication URL	N/A
Reason	Impact journal on the fields of geo-spatial data management
Main Audiences	Researchers on the domains of geo-spatial data management

PUBLICATIONS	
Authors	Bin Yang, Chenjuan Guo, Christian S. Jensen, Manohar Kaul, Shuo Shang
Publication Title	Stochastic Skyline Route Planning Under Time-Varying Uncertainty
REDUCTION Partner	Aarhus University
Publication Type	Conference Paper
Book title	30th IEEE International Conference on Data Engineering
Date and Year	March 31 – April 4, 2014
Pages	136-147
Location	Chicago, USA
Status	Published
Publication URL	N/A
Reason	Leading conference on the fields of data management
Main Audiences	Researchers and participants on the domains of data management

PUBLICATIONS	
Authors	Bin Yang, Chenjuan Guo, Yu Ma, Christian S. Jensen
Publication Title	Towards Context Aware, Personalized Routing
REDUCTION Partner	Aarhus University
Publication Type	Journal Paper
Book title	The VLDB journal
Date and Year	N/A
Pages	N/A
Location	N/A
Status	In submission



Publication URL	N/A
Reason	Leading journal on the fields of database management
Main Audiences	Researchers on the domains of database management

PUBLICATIONS	
Authors	Frank Ottenhof (TrafficLink/Trinité), Julie van Heteren and Thijs Muizelaar (DIVV Amsterdam), Saskia Müller (Amsterdam Smart City)
Publication Title	Amsterdam test Digitale Wegbeheerder (English version Amsterdam will test Digital Road Authority)
REDUCTION Partner	Trinité
Publication Type	Paper in Magazine
Book title	Verkeerskunde
Date and Year	April 2014
Pages	4
Location	The Netherlands
Status	Published in Verkeerskunde - 4
Publication URL	http://www.verkeerskunde.nl/internetartikelen/internetartikelen/amsterdam-test-digitale-wegbeheerder-%28vk-4-2014%29.37136.lynkx
Reason	Asked for publication about the Digital Road Authority by the magazine itself.
Main Audiences	Managers and decision makers in Traffic (mainly government related). Target group is always looking for new trends and possibilities in three focuspoints in traffic: safety, traffic flow and livability. With livability Reduction of CO2 is a big issue.

PUBLICATIONS	
Authors	Frank Ottenhof (TrafficLink/Trinité), Maarten de Haas (TrafficLink)
Publication Title	Digital Road Authority for optimal PPP Electronic solution connects governments and market
REDUCTION Partner	Trinité
Publication Type	Paper in Magazine
Book title	Verkeer in Beeld
Date and Year	March 2014
Pages	4
Location	The Netherlands
Status	Published in Verkeer in Beeld - 1
Publication URL	http://www.trafficlink.nl/de-digitale-wegbeheerder-in-verkeer-in-beeld/
Reason	Asked for publication about the Digital Road Authority by the magazine itself.



Main Audiences	Managers and decision makers in Traffic (mainly government related). Target group is always looking for new trends and possibilities in three focuspoints in traffic: safety, traffic flow and livability. With livability Reduction of CO2 is a big issue.
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PUBLICATIONS	
Authors	Dimitrios Papakostas, Dimitrios Katsaros
Publication Title	A Simulation-based Performance Evaluation of a Randomized MIS-based Clustering Algorithm for Ad Hoc Networks
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal paper
Book title	Simulation Modelling: Practice And Theory (Elsevier)
Date and Year	Vol. 48, November, 2014
Pages	1-23 (subject to change when the journal's final issue will be formed)
Status	The issue is "in progress", but contains articles that are final and fully citable
Publication URL	http://www.sciencedirect.com/science/article/pii/S1569190X14001063
Reason	SIMPAT provides a forum for original, high-quality papers dealing with any aspect of systems simulation and modelling. The journal aims at being a reference and a powerful tool to all those professionally active and/or interested in the methods and applications of simulation. Submitted papers will be peer reviewed and must significantly contribute to modelling and simulation in general or use modelling and simulation in application areas.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.
Comment	This publication supersedes the "under submission" article, which appeared in D.6.1.1 under the title "Building Integrity in Ad Hoc Networks: Evaluating a Randomised MIS-based Clustering Algorithm" with the same authors

PUBLICATIONS	
Authors	Nikos Makris, Christos Zarafetas, Thanasis Korakis, Dimitrios Katsaros and Leandros Tassiulas
Publication Title	Enabling Intelligent Transport System Experimentation in the NITOS networking testbed
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal paper
Book title	IEEE Internet of Things Journal – Special Issue on Internet of Vehicles (IoV)
Date and Year	2014
Pages	1-8
Status	The article is under first round review
Publication URL	N/A



Reason	The new era of Internet of Things (IoT) is driving the evolution of conventional Vehicle Ad hoc Networks (VANET) into the Internet of Vehicles (IoV) paradigm. According to recent predictions, 25 billion of “things” will be connected to the Internet by 2020 among which vehicles will constitute a significant portion. The difference of the vehicle concept in VANET and IoV makes these two scenarios essentially different in the device, communications, networking, and services aspects. In VANET, a vehicle is mainly considered as a node to disseminate messages among vehicles. In the IoV paradigm, each vehicle is considered as a smart object equipped with a powerful multi-sensor platform, communications technologies, computation units, IP-based connectivity to the Internet and to other vehicles either directly or indirectly. In addition, a vehicle in IoV is envisioned as a multi-communication model, enabling the interactions between intra-vehicle components, vehicles and vehicles, vehicles and road, and vehicles and people. IoV enables the acquisition and processing of large amount of data from versatile geographical areas via intelligent vehicles computing platforms to offer various categories of services for road safety and other services to drivers and passengers.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.

PUBLICATIONS	
Authors	Leandros Maglaras, Dimitrios Katsaros
Publication Title	Social clustering of vehicles based on semi-Markov processes
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal paper
Book title	IEEE Transactions on Vehicular Technology
Date and Year	June, 2014
Pages	1-33
Status	The article is under third round review
Publication URL	N/A
Reason	The IEEE Transactions on Vehicular Technology is dedicated solely to vehicular technology. This scholarly journal consists of high-quality technical manuscripts on advances in the state-of-the-art of vehicular technology in the areas of: land, airborne and maritime mobile services; portable commercial and citizen's communications services: vehicular electrotechnology, equipment and systems of the automotive industry; traction power, signals, communications and control systems for mass transit and railroads.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.



PUBLICATIONS	
Authors	Dimitrios Papakostas, Leandros Maglaras, Dimitrios Katsaros
Publication Title	A Rich Dictionary Markov Predictor for Trajectory Forecasting in Vehicular Environments
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal/magazine article
Book title	IEEE Vehicular Technology magazine
Date and Year	March, 2014
Pages	7 pages
Location	N/A
Status	The article is under second round review
Publication URL	N/A
Reason	Because it is the established international technical reference in its three main areas of interest: mobile radio, automotive electronics, and transportation systems.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.
Comment	This publication supersedes the "Submitted" article, which appeared in D.6.1.2 under the same title and with the same authors

PUBLICATIONS	
Authors	Athanasios Oikonomou Dimitrios Katsaros
Publication Title	Design, implementation & performance analysis of a vehicular cloud using Hadoop over wireless links
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Journal/magazine article
Book title	A major journal/magazine on communications/networking
Date and Year	July, 2014
Pages	12 pages
Location	N/A
Status	The article is under first round review
Publication URL	N/A
Reason	This journal is dedicated solely to vehicular technology. This scholarly journal consists of high-quality technical manuscripts on advances in the state-of-the-art of vehicular technology in the areas of: land, airborne and maritime mobile services; portable commercial and citizen's communications services: vehicular electrotechnology, equipment and systems of the automotive industry; traction power, signals, communications and control systems for mass transit and railroads.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.



PUBLICATIONS	
Authors	Leandros Maglaras, Pavlos, Basaras, Dimitrios Katsaros
Publication Title	Exploiting Vehicular Communications for Reducing CO ₂ Emissions in Urban environments
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Conference article
Book title	Proceedings of the 2nd International Conference on Connected Vehicles and Expo (ICCVE)
Date and Year	December 2-6, 2013
Pages	32-37
Location	Las Vegas, Nevada, USA
Status	Proceeding publication
Publication URL	http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6799765
Reason	ICCVE is the premier Connected Vehicles conference that gathers all the relevant communities together.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.

PUBLICATIONS	
Authors	Nikos Makris, Thanasis Korakis, Dimitrios Katsaros, Leandros Tassioulas
Publication Title	Enabling ITS Real World Experimentation in NITOS Future Internet facility
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Conference article
Book title	Proceedings of the 11th IEEE/IFIP Annual Conference on Wireless On-demand Network Systems and Services (WONS)
Date and Year	April 2-4, 2014
Pages	97-103
Location	Obergurgl, Austria
Status	Proceeding publication
Publication URL	http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6814728
Reason	Providing secure, reliable, and dependable wireless services is the primary objective of modern data networks. While enabling technology for “on-demand” services through any of the common wireless architectures, such as WiMax, WiFi, ad hoc networks, sensor networks, and vehicular networks, has made large strides, many formidable challenges remain to be overcome, such as the integration of infrastructure-based and ad hoc networks, robust algorithms for self-organizing, reconfigurable wireless networks, on-demand service models and their performance in highly-volatile interconnect topologies as well as the smooth interoperability of different architectures. IEEE/IFIP WONS has established itself as a high-quality forum to address these challenges in the context of a conference that is rich in intense interactions and based on innovative contributions by experts in the field.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.



PUBLICATIONS	
Authors	Alexandra Stagkopoulou, Pavlos Basaras, Dimitrios Katsaros
Publication Title	A Social-based Approach for Message Dissemination in Vehicular Ad Hoc Networks
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Publication Type	Conference article
Book title	Proceedings of the 6th International Conference on Ad Hoc Networks
Date and Year	August 18-19, 2014
Pages	1-12
Location	Rhodes island, Greece
Status	Proceeding publication
Publication URL	http://inf-server.inf.uth.gr/~dkatsar/papers/ADHOCNETS14sbk.pdf
Reason	AdHocNets'14 covers a variety of network paradigms for specific purposes, such as mobile ad hoc networks, sensor networks, vehicular networks, underwater networks, underground networks, personal area networks, and home networks, with a broad range of applications in civilian, commercial, and military areas.
Main Audiences	Researchers, academicians, practitioners, and students from universities, industries and government agencies.

PUBLICATIONS	
Authors	Michael Levin, Ehsan Jafari, Rohan Shah, Natalia Ruiz Juri, Kyriacos C. Mouskos
Publication Title	14-5689 Dynamic Traffic Assignment Framework to Assess Short-Term Network-Level Impacts of Eco-Routing Strategies
REDUCTION Partner	CTL Cyprus Transport Logistics Ltd.
Publication Type	Conference Paper
Book title	N/A
Date and Year	12-16/01/2014
Pages	17
Location	Transportation Research Board. 500 Fifth St. NW, Washington, D.C. 20001
Status	TRB 2014 Proceedings Publication
Publication URL	http://amonline.trb.org/trb-55856-2014a-1.823612/t-1116-1.840954/576-1.841084/14-5689-1.841085/14-5689-1.841091?qr=1
Reason	TRB is the largest transport meeting in the world and attracts 11,000 participants per year at the Annual meeting in Washington DC. It is one of the most common places to send transport places especially for
Main Audiences	Transport modelers, Transport energy and air quality

PUBLICATIONS	
Authors	Benjamin B. Krogh, Ove Andersen, and Kristian Torp
Publication Title	An Open-Source Based ITS Platform



REDUCTION Partner	Aalborg University (AAU)
Publication Type	Conference paper
Book title	2013 IEEE 14th International Conference on Mobile Data Management LBS n.0 Workshop
Date and Year	2013.04.03
Pages	6
Location	Milan, Italy
Status	Accepted
Publication URL	http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?isnumber=6569035
Purpose	Overview of the platform delivered in WP3 and used in WP5

PUBLICATIONS	
Authors	Benjamin B. Krogh, Ove Andersen, Edwin Lewis-Kelham, Nikos Pelekis, Yannis Theodoridis, Kristian Torp
Publication Title	Trajectory based traffic analysis
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Conference paper
Book title	21st SIGSPATIAL International Conference on Advances in Geographic Information Systems, SIGSPATIAL 2013
Date and Year	2013.11.05
Pages	4
Location	Orlando, FL
Status	Accepted
Publication URL	http://dl.acm.org/citation.cfm?id=2525314
Purpose	Presentation of part of WP3 prototype.

PUBLICATIONS	
Authors	Karsten Jakobsen, Sabine C. H. Mouritsen, Kristian Torp
Publication Title	Evaluating eco-driving advice using GPS/CANBus data
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Conference paper
Book title	21st SIGSPATIAL International Conference on Advances in Geographic Information Systems, SIGSPATIAL 2013
Date and Year	2013.11.05
Pages	4
Location	Orlando, FL
Status	Accepted
Publication URL	http://dl.acm.org/citation.cfm?id=2525314
Purpose	Use of CAN bus data.

PUBLICATIONS	
Authors	Ove Andersen, Benjamin B. Krogh, Kristian Torp
Publication Title	Analysis of Energy Consumption from EVs (in Danish)



REDUCTION Partner	Aalborg University (AAU)
Publication Type	Peer-review journal (ISSN 1903-1092)
Book title	Trafik Dage
Date and Year	2014.07.16
Pages	12
Location	Aalborg, Denmark
Status	Accepted
Publication URL	http://www.trafikdage.dk/program/Program_netudgave_2014.pdf
Purpose	Use EV CAN bus data

PUBLICATIONS	
Authors	Benjamin B. Krogh, Nikos Pelekis, Yannis Theodoridis, Kristian Torp
Publication Title	Path-based Queries on Trajectory Data
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Conference Paper
Book title	N/A
Date and Year	2014.07.31
Pages	10
Location	N/A
Status	Submitted for publication
Publication URL	N/A
Purpose	Use of path queries.

PUBLICATIONS	
Authors	Benjamin B. Krogh, Ove Andersen, Kristian Torp
Publication Title	Analyzing Electric Vehicle Energy Consumption using Very Large Data Sets
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Conference Paper
Book title	N/A
Date and Year	2014.07.31
Pages	10
Location	N/A
Status	Submitted for publication
Publication URL	N/A
Purpose	Evaluation of EV CAN bus data.

PUBLICATIONS	
Authors	Benjamin B. Krogh, Ove Andersen, Edwin Lewis-Kelham, Kristian Torp
Publication Title	Efficient One-click Browsing of Large Trajectory Sets
REDUCTION Partner	Aalborg University (AAU)
Publication Type	Conference Demo
Book title	N/A
Date and Year	2014.07.31



Pages	4
Location	N/A
Status	Submitted for publication
Publication URL	N/A
Purpose	Evaluation of EV CAN bus data.

4.4.2 Presentations

Presentations to conferences, workshops or seminars, which mention the REDUCTION project or describe the work done in the project, are listed in Table 12.

Table 12 Presentations in Year 3

PRESENTATIONS	
Presentation Title	REDUCTION
REDUCTION Partner	University of Hildesheim
Event Title	EC FP7 ICT Call 7 & 8 Concertation Workshop
Date and Year	30 April 2014
Location	Brussels, Belgium
Presentation Purpose	Present the Achievements of the REDUCTION project to related projects and interested audiences within the FP7 community

PRESENTATIONS	
Presentation Title	REDUCTION
REDUCTION Partner	University of Hildesheim
Event Title	Booth at CEBIT 2014
Date and Year	10-14 march 2014
Location	Hannover, Germany
Presentation Purpose	CEBIT is the world's biggest annual fair of IT products and solutions. The REDUCTION project had a dedicated booth in the R&D hall of the fair. The booth was especially visited by the mayor of Hildesheim Mr. Ingo Meyer and the Lower Saxony's Minister of Economy Mr. Olaf Lies. In addition, the project was included in a guided-tour of the R&D hall, titled "IT solutions for safe and economic transportations". About 10-15 business representatives visited our tour and listened to the presentation of the project.

PRESENTATIONS	
Presentation Title	REDUCTION
REDUCTION Partner	University of Hildesheim
Event Title	Informatik 2013 conference



Date and Year	16-20 September 2013
Location	Koblenz Germany
Presentation Purpose	REDUCTION project was presented at the 36th German Conference on Artificial Intelligence (KI 2013) conference, from 16-20 September 2013, in Koblenz Germany. KI conference traditionally brings together academic and industrial researchers from all areas of AI. KI 2013 was colocated with INFORMATIK'13 which is considered the biggest IT conference of Germany. Several ITS researchers attended the REDUCTION presentation and participated in the discussion session.

PRESENTATIONS	
Presentation Title	Enabling time-dependent uncertain eco-weights for road networks
REDUCTION Partner	Aarhus University
Event Title	First International ACM Workshop on Managing and Mining Enriched Geo-Spatial Data
Date and Year	27 June 2014
Location	Snowbird, USA
Presentation Purpose	Present REDUCTION results to audiences who show intensive interests to eco-routing

PRESENTATIONS	
Presentation Title	Multi-cost optimal route planning under time-varying uncertainty
REDUCTION Partner	Aarhus University
Event Title	30th IEEE International Conference on Data Engineering
Date and Year	April 1, 2014
Location	Chicago, USA
Presentation Purpose	Present REDUCTION results to audiences who show intensive interests to skyline route computation

PRESENTATIONS	
Presentation Title	Multimodality and eco-routing
REDUCTION Partner	FlexDanmark
Event Title	Joint trips
Date and Year	25 September 2013
Location	Gothenburg
Presentation Purpose	To discuss multimodality and eco-routing with our Swedish colleagues from Vesttrafik



PRESENTATIONS	
Presentation Title	Multimodality
REDUCTION Partner	FlexDanmark
Event Title	N/A
Date and Year	5 December 2013
Location	Aalborg, Denmark
Presentation Purpose	To discuss methods for multimodality in connection with a new project

PRESENTATIONS	
Presentation Title	Driving times and eco-routing
REDUCTION Partner	FlexDanmark
Event Title	SUTI meeting
Date and Year	14 January 2014
Location	Malmö
Presentation Purpose	To discuss driving times in connection with links between systems

PRESENTATIONS	
Presentation Title	Eco-routing and driving times
REDUCTION Partner	FlexDanmark
Event Title	ITtrans
Date and Year	18 February 2014
Location	Karlsruhe, Germany
Presentation Purpose	To present the way FlexDanmark operates with GPS driving times etc.

PRESENTATIONS	
Presentation Title	DVM wordt een gecoördineerde co-creatie tussen privaat en publiek
REDUCTION Partner	Trinité
Event Title	Nationaal Verkeerskunde Congres
Date and Year	6 of November 2013
Location	Den Bosch



Presentation Purpose	Managers and decision makers in Traffic (mainly government related). Target group is always looking for new trends and possibilities in three focus points in traffic: safety, traffic flow and livability. With livability Reduction of CO2 is a big issue. Talking about the future of TrafficManagement.
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PRESENTATIONS	
Presentation Title	Digital Road Authority
REDUCTION Partner	Trinité
Event Title	Verkeer & Mobiliteit (Mobility Exhibition)
Date and Year	30st of November 2013
Location	Houten, The Netherlands
Presentation Purpose	Talking about the future possibilities of TrafficManagement.

PRESENTATIONS	
Presentation Title	Digital Road Authority
REDUCTION Partner	Trinité
Event Title	Verkeer & Mobiliteit Belgium (Mobility Exhibition)
Date and Year	5 & 6 of February 2014
Location	Brussels, Belgium
Presentation Purpose	Talking about the future possibilities of TrafficManagement.

PRESENTATIONS	
Presentation Title	Digital Road Authority
REDUCTION Partner	Trinité
Event Title	Intertraffic Amsterdam (international Mobility Exhibition)
Date and Year	25-28 of March 2014
Location	Amsterdam, The Netherlands
Presentation Purpose	Talking about the future possibilities of TrafficManagement.

PRESENTATIONS	
Presentation Title	Ambition 2016 program: the Digital Road Authority Creating synergy between the information and intentions of public parties, private parties and traveller
REDUCTION Partner	Trinité



Event Title	ITS Helsinki
Date and Year	16-19 June 2014
Location	Helsinki, Finland
Presentation Purpose	Talking about the future possibilities of Traffic Management.

PRESENTATIONS	
Presentation Title	Exploiting Vehicular Communications for Reducing CO ₂ Emissions in Urban environments
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Event Title	2nd International Conference on Connected Vehicles and Expo (ICCVE)
Date and Year	December 2-6, 2013
Location	Las Vegas, Nevada, USA
Presentation Purpose	To describe an algorithm for CO ₂ reduction using V2V communications among vehicles.

PRESENTATIONS	
Presentation Title	Enabling ITS Real World Experimentation in NITOS Future Internet facility
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Event Title	11th IEEE/IFIP Annual Conference on Wireless On-demand Network Systems and Services (WONS)
Date and Year	April 2-4, 2014
Location	Obergurgl, Austria
Presentation Purpose	Describe UTH's implementation and evaluation of the GeoNetworking protocol running over UTH's wireless testbed.

PRESENTATIONS	
Presentation Title	A Social-based Approach for Message Dissemination in Vehicular Ad Hoc Networks
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Event Title	6th International Conference on Ad Hoc Networks
Date and Year	August 18-19, 2014
Location	Rhodes island, Greece
Presentation Purpose	To describe a new protocol for network-wide message dissemination over VANET's which beats the established standard protocol Optimised Link State Routing Protocol (RFC 3626) [https://www.ietf.org/rfc/rfc3626.txt]

PRESENTATIONS	
Presentation Title	Dynamic Traffic Assignment Framework to Assess Short-Term Network-Level Impacts of Eco-Routing Strategies



REDUCTION Partner	CTL Cyprus Transport Logistics Ltd.
Event Title	2014 Transportation Research Board Annual Meeting
Date and Year	12-16/01/2014
Location	Washington DC, USA
Presentation Purpose	How to model energy consumption within the framework of a Dynamic Traffic Assignment model. The TRB participants related to DTA and environmental modeling were the main target audience as TRB attracts participants from all disciplines in the area of transport.

PRESENTATIONS	
Presentation Title	Implementing the VISTA DTA for Environmental Analysis in Nicosia, Cyprus under the REDUCTION European Commission FP7 sponsored project
REDUCTION Partner	CTL Cyprus Transport Logistics Ltd.
Event Title	NJDOT Showcase
Date and Year	October 23, 2013
Location	Mercer Conference Center, West Windsor, NJ
Presentation Purpose	How to model energy consumption within the framework of a Dynamic Traffic Assignment model. The NJDOT participants include University researchers, NJDOT engineers and planners, transport consultants

PRESENTATIONS	
Presentation Title	Estimating Travel-Times using GPS Data
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2013.07.11
Location	Aalborg, Denmark
Presentation Purpose	Presentation of calculating travel-time using GNSS for public company (Movia).

PRESENTATIONS	
Presentation Title	Path-based Travel-Time
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2013.08.12
Location	Pandrup, Denmark
Presentation Purpose	Presentation of calculating travel-time using high-frequent GNSS data.



PRESENTATIONS	
Presentation Title	The Daisy Research Group
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2013.10.23
Location	Aalborg, Denmark
Presentation Purpose	Presentation of research group and REDUCTION project for Japanese company visiting Aalborg.

PRESENTATIONS	
Presentation Title	A Spatio-temporal Data Warehouse
REDUCTION Partner	Aalborg University (AAU)
Event Title	Lecture at Open Education
Date and Year	2013.12.06
Location	Aalborg, Denmark
Presentation Purpose	Presentation of WP3 prototype.

PRESENTATIONS	
Presentation Title	ITS Research @ DAISY
REDUCTION Partner	Aalborg University (AAU)
Event Title	Public IT meeting
Date and Year	2013.12.16
Location	Aalborg, Denmark
Presentation Purpose	Presentation of ITS research and REDUCTION project at public meeting.

PRESENTATIONS	
Presentation Title	GPS for Interactive Traffic Analysis
REDUCTION Partner	Aalborg University (AAU)
Event Title	Public IT meeting
Date and Year	2014.01.15
Location	Copenhagen, Denmark
Presentation Purpose	Presentation of REDUCTION research.

PRESENTATIONS	
Presentation Title	Traffic Analysis based on GPS Data (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Public IT meeting
Date and Year	2014.02.04
Location	Aalborg, Denmark



Presentation Purpose	Presentation of REDUCTION research.
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PRESENTATIONS	
Presentation Title	Big Traffic Data in Practice (partly in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Public IT meeting
Date and Year	2014.02.05
Location	Aalborg, Denmark
Presentation Purpose	Presentation of REDUCTION research.

PRESENTATIONS	
Presentation Title	Good usage of GPS and CAN bus Data for Traffic Analysis
REDUCTION Partner	Aalborg University (AAU)
Event Title	Public IT meeting
Date and Year	2014.02.19
Location	Copenhagen, Denmark
Presentation Purpose	Presentation of REDUCTION research.

PRESENTATIONS	
Presentation Title	The Traffic in Aarhus/Skejby Area (in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Public IT meeting
Date and Year	2014.03.17
Location	Aarhus, Denmark
Presentation Purpose	Presentation of REDUCTION research.

PRESENTATIONS	
Presentation Title	ITS using GPS and CAN bus Data
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2014.05.22
Location	Copenhagen, Denmark
Presentation Purpose	Presentation of REDUCTION research for ITS company.



PRESENTATIONS	
Presentation Title	Usage-based Insurance
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2014.05.22
Location	Copenhagen, Denmark
Presentation Purpose	Presentation of REDUCTION research for insurance company.

PRESENTATIONS	
Presentation Title	GPS and CAN bus Data for ITS and Smart Cities
REDUCTION Partner	Aalborg University (AAU)
Event Title	Company meeting
Date and Year	2014.06.04
Location	Aalborg, Denmark
Presentation Purpose	Presentation of REDUCTION research for Japanese company.

PRESENTATIONS	
Presentation Title	Big Traffic Data in Practice (partly in Danish)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Virtual and real meeting
Date and Year	2014.06.13
Location	Aalborg, Denmark
Presentation Purpose	Presentation of REDUCTION research for ITS interest organisation.

4.4.3 Established Contacts

Contacts established by dissemination activities are listed in Table 13 in this section.

Table 13 Established Contacts in Year 3

Established Contacts	
Established Contacts	Smart Cities of Barcelona, Jakarta, etc
By which dissemination	Smart City Event and different presentations held in cooperation with Amsterdam Smart City
REDUCTION Partner	Trinite

Established Contacts	
Established Contacts	Xiaojing Wang (Founder and Director, China National ITS Center)
By which dissemination	During ICCVE 2013 in Las Vegas, USA
REDUCTION Partner	UTH



Established Contacts	
Established Contacts	Universidad Estatal de Milagro, Ecuador; City of Quito, Ecuador; City of Guayaquil, Ecuador NJDOT traffic operations – Mr. Dennis Motiani, Assistant Commissioner, Transportation Systems Management
By which dissemination	Presentation of the capabilities of the VISTA software including eco-routing strategies
REDUCTION Partner	CTL Cyprus Transport Logistics Ltd.

4.4.4 Public Participation and Awareness

To raise the public awareness of the objectives and results of REDUCTION, external national and international organisations, bodies, and projects that participated in the project, as well as details of their participation, are presented in Table 14.

Table 14 Public Participation and Awareness in Year 3

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Inform Norden
REDUCTION Partner	FlexDanmark
Event Title	Inform Norden
Date and Year	11-13 September 2013
Location	Helsinki, Finland
Event Purpose	To inform about new trends in DRT and inform about driving times
Event Description	A conference
Event results	N/A
Event URL	http://www.informnorden.com/wp-content/uploads/2013/06/InformNorden_Program-FINAL.pdf

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	TOEF
REDUCTION Partner	FlexDanmark
Event Title	Public transport seminar
Date and Year	8 October 2013
Location	Korsør, Denmark
Event Purpose	To speak about multimodality, driving times and eco-routing
Event Description	A yearly seminar for all relevant public transport stakeholders
Event results	N/A



Event URL	N/A
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PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Not a formal organisation
REDUCTION Partner	FlexDanmark
Event Title	European DRT
Date and Year	21 May 2014
Location	Copenhagen, Denmark
Event Purpose	To inform about new trends in DRT and inform about driving times
Event Description	A conference
Event results	N/A
Event URL	N/A

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	BNR (Business News Radio)
REDUCTION Partner	Trinité
Event Title	Radio interview about Digital Road Authority
Date and Year	14th of May 2014
Location	Amsterdam, The Netherlands
Event Purpose	Amsterdam Smart City arranged a radio interview on BNR. Because of the innovative projects of the Digital Road Authority. Focus on use cases including Jan van Galenstraat (which is a reduction of CO2 use case)
Event Description	15 minute radio interview about different aspects of Digital Road Authority
Event results	A lot of reactions and invitations to talk about the subject
Event URL	N/A

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Thessaloniki's local TV: "EURO Channel"
REDUCTION Partner	University of Thessaly, Hellas (UTH)
Event Title	Weekly TV infotainment show: "Agenda" with Polina Petkaki
Date and Year	May 11th, 2014
Location	Thessaloniki, Hellas
Event Purpose	Talk about Intelligent Transportation Systems (Vehicle clustering/platooning)
Event Description	Dissemination of the REDUCTION project
Event results	Present academic research to a broad, non-technical audience and disseminate EU funding efforts
Event URL	http://eurotileorasi.eu/eurotv/index.php/web-tv-euro/arxeio-ekpompon/psyxagogikes-arxeio/agenda-euro-tileorasi/youtubegallery.html?videoid=hvyld0sCuUM (after 01:01:04)



PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Atv.dk (Akademiet for de Tekniske Videnskaber)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Big Data – bigger potential
Date and Year	2013.11.08
Location	Denmark
Event Purpose	Using GPS/CAN bus for Big Data
Event Description	
Event results	
Event URL	http://vbn.aau.dk/en/clippings/big-data--bigger-potential(92217adc-b0ca-41ad-bfb5-94366b732c61).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	Atv.dk (Akademiet for de Tekniske Videnskaber)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Big Data – bigger potential Mød seniorforsker Ravi Kumar fra Google ved ATV's big data-seminar (in Danish)
Date and Year	2014.01.09
Location	Denmark
Event Purpose	Using GPS/CAN bus for Big Data
Event Description	
Event results	
Event URL	http://vbn.aau.dk/en/clippings/moed-seniorforsker-ravi-kumar-fra-google-ved-atvs-big-dataseminar(ea671e90-8109-4038-82f0-4e0891be268f).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	(Ritzaus Bureau) (Newspaq / Radio Charlie) (Newspaq / Skaga FM)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Many IT jobs in ITS (in Danish)
Date and Year	2014.01.14
Location	Denmark
Event Purpose	Using GPS/CAN bus for Big Data
Event Description	
Event results	
Event URL	http://vbn.aau.dk/en/clippings/citathistorie-fra-dr-nordjylland-mange-arbejdspladser-at-hente-i-trafikit(f2dae144-809b-4710-8a92-d52e9561b76a).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	(Altinget.dk) (Altinget.dk/Transport) (Aau.dk (Aalborg Universitet)) (Altomteknik.dk) (Ing.dk (Ingeniøren)) (Videnskab.dk) (Ingeniøren) (Altinget.dk/Teknik) (Dagens.dk) (Ing.dk (Ingeniøren)) (Energy-Supply.dk) (Teknovation.dk)



REDUCTION Partner	Aalborg University (AAU)
Event Title	Large Fluctuation in EV Range (in Danish)
Date and Year	2014.03.14
Location	Denmark
Event Purpose	Using GPS/CAN bus for Big Data
Event Description	
Event results	
Event URL	http://vbn.aau.dk/en/clippings/store-saesonudsving-i-elbilers-raekkevidde(16bf6d87-68ff-4a26-994d-e004f0511a5b).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	(Altinget.dk/Energi)
REDUCTION Partner	Aalborg University (AAU)
Event Title	Large Fluctuation in EV Range (in Danish)
Date and Year	2014.03.28
Location	Denmark
Event Purpose	Using GPS/CAN bus for Big Data
Event Description	
Event results	
Event URL	http://vbn.aau.dk/en/clippings/store-saesonudsving-i-elbilers-raekkevidde(41c57197-68df-48c0-ba0d-9d473bf8ed9e).html

PUBLIC PARTICIPATION AND AWARENESS	
Organisation Name	(Politiken) (Politiken.dk)
REDUCTION Partner	Aalborg University (AAU)
Event Title	EVs suffering when cold and hot (in Danish)
Date and Year	2014.04.05
Location	Denmark
Event Purpose	Using GPS/CAN bus for Big Data
Event Description	
Event results	
Event URL	http://vbn.aau.dk/en/clippings/elbiler-lider-i-baade-kulde-og-hede(8ef8a15f-e3d8-4d66-8c27-8158cd2f14b3).html



5. Risk Assessment and Conclusions

5.1 Risk Assessment

When choosing to publish papers in prestigious academic conferences and journals, the selectivity of such outlets represents a risk, as does the introduction of solutions to non-academic audiences who have no background on the REDUCTION project.

The process of publishing a paper in prestigious, academic conferences and journals is very competitive, and it may also take a long time for a paper to be accepted and published (e.g., 3 months to more than 1 year for acceptance only). To compensate for this risk, some unpublished content may become publicly available through project deliverables and online repositories, e.g., the arXiv.org e-Print archive. Thus, readers who are interested in REDUCTION will be able to learn about the recent developments and achievements made by REDUCTION before the content is published in conferences and journals.

To disseminate the REDUCTION results to non-academic audiences, the REDUCTION partners exploited a range of opportunities, including attending technical conferences, writing articles to newspapers, and discussing techniques developed in the REDUCTION project in a less technical way in seminars where the audiences have limited or little knowledge on how to reduce CO₂ emissions.

5.2 Conclusions

The REDUCTION project's dissemination activities are described in this deliverable D6.1.3 and demonstrate the progresses made in the three years of the project. On this basis, we find that the dissemination objectives of the project reported in deliverables D6.1.1, D6.1.2, and D6.1.3 have been achieved.

In particular, a logo, a website, and a fact sheet were designed and launched for the REDUCTION project at the beginning of the project. The website was updated regularly to reflect the progress of the REDUCTION partners in the project.

Within the three years of the project, the anticipated dissemination activities have been achieved. The means of communication are assessed as being effective. In particular, most results have been made available to the public in the form of publications. The REDUCTION partners participate intensively in various events to advertise technologies developed and implemented during the project. A significant number of presentations and discussions took place in the three years, which allows the project to be more visible to the public. Furthermore, some external bodies, e.g., international media, are also leveraged to advertise the utility of the project. This raises the public awareness of the objectives and the focuses of the REDUCTION project. Meanwhile, several papers have been published in prestigious conferences and journals, such as PVLDB, AAAI, SIGKDD, TKDE, MDM, by the REDUCTION partners. One paper won the best paper award at MDM 2013, and one paper won the best demo award at MDM 2013. This increases the awareness of the REDUCTION related academic contributions to researchers in related fields.



6. Policy and Administrative Issues

The Aarhus University (AU) partner led the collection and summarisation of dissemination activities and took charge of writing deliverables D6.1.1 – D6.1.3. All partners contributed to the contents of these deliverables.

The AU partner sent out a template of dissemination activities that were anticipated to be filled in by all partners at the end of each project year (e.g., 2012.9.1 – 2013.8.31). Specifically, the template requires inputs for publications, presentations, established contacts, and public participation and awareness of the project achieved within the project year. Then, partners who contributed to the dissemination activities replied the AU partner with their details. The communication plan was agreed by all partners during the second year review. The project logo, website, fact sheet, and poster were developed by University of Hildesheim (UHI).

During project meetings and internal deliverable review stages, all partners commented on and gave feedback on the deliverables.

Glossary



Term	Description
GHG	Green House Gas
GPS	Global Positioning System.
CANBus	Detailed information about a single vehicle, e.g., actual fuel consumption, engine RPM, and throttle position
EU	European Union
V2I	Vehicle to Infrastructure
V2V	Vehicle to Vehicle
EMIT	EMISSIONS from Traffic
REDUCTION	Reducing Environmental Footprint based on Multi-Modal Fleet management Systems for Eco-Routing and Driver Behaviour Adaptation
ICT	Information and Communication Technology
CO2	Carbon dioxide
FP7	7th Framework Programme for Research and Technological Development
WP	Work package
UHI	University of Hildesheim
UTH	University of Thessaly, Hellas
AAU	Aalborg University
AU	Aarhus University
TRI	Trinité Automatisering B.V.
CTL	CTL Cyprus Transport Logistics Ltd.