

PROJECT FINAL REPORT

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² The home page of the website should contain the generic European flag and the FP7 logo which are available in electronic format at the Europa website (logo of the European flag: http://europa.eu/abc/symbols/emblem/index_en.htm ; logo of the 7th FP: http://ec.europa.eu/research/fp7/index_en.cfm?pg=logos). The area of activity of the project should also be mentioned.

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1 Final publishable summary report

1.1 Executive summary

In Europe new technologies for Intelligent Transport Systems were researched and developed, often supported by the EC Research Framework Programme as well as national programmes. The short and long term impact of these systems needs to be understood to answer questions which are crucial for market introduction and penetration. By testing the systems on a large scale, in real driving conditions during a significant period of time, Field Operational Tests (FOT) can answer these questions. The results of FOTs enable policy makers to establish the right policy framework for deployment of these systems, and business leaders to make informed decisions about their market introduction. Throughout Europe many FOTs have been carried out at both European and national levels. In the EC-funded FESTA project a common FOT methodology was developed, and is now being used as the basis for the planning and execution of FOTs, Naturalistic Driving Studies and pilot projects. During the lifetime period of the different FOTs there was a crucial need for a platform of knowledge exchange in order to let these individual FOTs benefit from each other's experiences. This platform was set-up in 2008 as the FOT-Net support action, funded at the time by the EC DG Information Society. Contractually FOT-Net ended in December 2010 and was followed by its second phase FOT-Net 2 since January 2011 for a period of 39 months.

FOT-Net 2 set as its objectives to inform about developments in FOTs, to discuss the methodology and lessons-learned from FOTs, to share experiences and to promote the dissemination of FOT results. FOT-Net 2 realised these objectives by six main activities: networking, the revision of FESTA, supporting FOTs with materials and seminars, the building of a knowledge base, the generation of new knowledge on FOTs, and the analysis of stakeholders' needs and deployment strategies. FOT-Net 2 further developed the strategic networking of national, European and global FOTs (i.e. North American and Asian-Pacific). During 39 months the FOT Network met in seven bi-annual FOT stakeholders meetings and three international FOT meetings. The FESTA methodology was improved on the basis of recent FOT experiences. Especially Naturalistic Driving Studies and FOTs on Cooperative systems were given more attention. Support was provided by the organisation of seven seminars, where experiences from FOTs were discussed and knowledge on the methodology were transferred and further developed. Materials such as newsletters, brochures and guidelines for dissemination were produced. All materials and workshop reports and presentations are available at the FOT-Net website www.fot-net.eu. New knowledge was developed in five expert working groups on data analysis, legal and ethical issues, incident definition, impact assessment, and data sharing. Results were incorporated in the revised FESTA handbook. A knowledge-base was built in the form of the FOT-Net Wiki: wiki.fot-net.eu, gathering information on 147 FOT projects world-wide. FOT-Net 2 also created a new web-based inventory of existing tools for data acquisition, database structure, and data analysis to facilitate the setup of new FOTs. To support deployment of FOT-results a stakeholder analysis was performed, evaluating contributions of FOTs toward policy goals and market deployment.

FOT-Net is not finished. The newly funded support action FOT-Net Data, which started in January 2014, will take over the networking and support activities, building on the knowledge and experience gathered in FOT-Net 2. However, this project has a new focus: the sharing and re-using of data gathered in FOTs. FOTs have gathered huge amounts of data that are not fully analysed and that can be used for new research questions. The development of a global data sharing framework, in collaboration with world-wide stakeholders, data sharing tools and a catalogue of available data are the main objectives.

1.2 Summary description of project context and objectives

Project Context and Project objectives

In Europe, new technologies for Intelligent Transport Systems were researched and developed, often supported by the EC Research Framework Programme as well as national programmes. The short and long term impact of these systems needs to be understood, to answer questions which are crucial for market introduction and penetration. By testing the systems on a large scale, in real driving conditions during a significant period of time, Field Operational Tests (FOT) can answer these questions. The results of FOTs enable policy makers to establish the right policy framework for deployment of these systems, and business leaders to make informed decisions about their market introduction. Throughout Europe, many FOTs have been carried out at both European and national levels. In the EC-funded FESTA project, a common FOT methodology has been developed and is now being used as the basis for the planning and execution of FOTs, Naturalistic Driving Studies and pilot projects. During the lifetime period of the different FOTs, there was a crucial need for a platform of knowledge exchange in order to let these individual FOTs benefit from each other's experiences. This platform was set-up in 2008 as the FOT-Net support action funded at the time by the EC DG Information Society. Contractually, FOT-Net ended in December 2010 and was followed by its second phase FOT-Net 2 since January 2011 for a period of 39 months.

The primary goal of FOT-Net 2 was to increase the momentum of the network achieved in the FOT-Net 1 project by further development the strategic networking of existing and future national, European and Global FOTs (i.e. North American and Asian-Pacific). During 39 months the FOT Network met in seven bi-annual FOT stakeholders meetings and three international FOT meetings.

FOT-Net 2 also focused on methodology based on recent FOT experiences. Through a series of targeted meetings and seminars it gathered the relevant experts to revise and adapt the FESTA methodology for FOTs on ADAS, Nomadic devices, Cooperative systems, and, in addition, to address Naturalistic Driving Studies.

Five new expert working groups were created in order to clarify critical topics related to legal and ethical issues, data analysis, incident definition, impact assessment, and data sharing. The revised FESTA methodology was promoted through seven seminars.

FOT-Net 2 created a new web-based inventory of existing tools for data acquisition, database structure, and data analysis to facilitate the setup of new FOTs.

FOT-Net 2 continued to act as a multiplier for the dissemination and awareness of FOT activities especially in terms of inter-activities support and outreach.

Finally, FOT-Net 2 evaluated contributions of FOTs toward policy goals and market deployment using an improved methodology for stakeholders' analysis.

The newly funded support action FOT-Net Data, which started in January 2014, will take over the networking and support activities, building on the knowledge and experience gathered in FOT-Net 2. However, this project has a new focus: the sharing and re-using of data gathered in FOTs. FOTs have gathered huge amounts of data that are not fully analysed and that can be used for new research

questions. The development of a global data sharing framework, in collaboration with world-wide stakeholders, data sharing tools and a catalogue of available data are the main objectives.

Project beneficiaries

No.	Beneficiary organisation name	Beneficiary short name	Country
1	EUROPEAN ROAD TRANSPORT TELEMATICS IMPLEMENTATION COORDINATION ORGANISATION S.C.R.L.	ERT	BE
2	MINISTERIE VAN VERKEER EN WATERSTAAT	RWS	NL
3	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOEK TNO	TNO	NL
4	UNIVERSITY OF LEEDS	LEEDS	UK
5	POLIS - PROMOTION OF OPERATIONAL LINKS WITH INTEGRATED SERVICES AISBL	POL	BE
6	FEDERATION INTERNATIONALE DE L'AUTOMOBILE	FIA	BE
7	CHALMERS TEKNISKA HOEGSKOLA AKTIEBOLAG	SAFER	SE
8	VOLVO PERSONVAGNAR AB	VCC	SE
9	FUNDACION PARA LA PROMOCION DE LA INNOVACION, INVESTIGACION Y DESARROLLO TECNOLOGICO EN LA INDUSTRIA DE AUTOMOCION DE GALICIA	CTAG	ES
10	RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN	IKA	DE
11	FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V	FHG	DE
12	CENTRO RICERCHE FIAT SCPA	CRF	IT
13	RENAULT	REN	FR
14	BUNDESANSTALT FUER STRASSENWESEN	BAST	DE
15	ASSOCIATION PROFESSIONNELLE DES SOCIETES FRANCAISES CONCESSIONNAIRES OU EXPLOITANTES D'AUTOROUTES OU D'OUVRAGES ROUTIERS	ASFA	FR

Project Associated Partners (non-funded partners)

The Associated Partners is comprised of non-funded partners from Europe, North America and Asia-Pacific who contribute actively to the FOT-Net activities. They benefit from high visibility during the project workshops and events during which they share their valuable knowledge with the audience. In addition they also actively contribute to the dissemination materials.

Associated Partners were also invited to attend the Consortium meetings during which they were expected to report on FOT activities and contribute with their knowledge to the execution of the project work plan.

The associated partners at the end of the project are:

No.	Beneficiary organisation name	Country
1	Connekt / ITS Netherlands	NL
2	Continental (ADC Automotive Distance Control Systems GmbH)	DE
3	DLR German Aerospace Center, Institute for Transportation Systems	DE
4	Ford representing euroFOT project	DE
5	IFSTTAR	FR
6	Institute for Traffic Accident Research at University of Technology Dresden	DE
7	ITS Bretagne	FR
8	ITS Israel Association	IS
9	Loughborough University	UK
10	Netport Science Park	SE
11	Network of National ITS Associations	NL
12	NISSAN	JPN
13	OHL Concesiones representing FOTsis project	ES
14	ORANGE	FR
15	SWOV - Institute for Road Safety Research	NL
16	Transport of Canada	CA
17	UMTRI - University of Michigan	US
18	VTT, representing TeleFOT project	FI
19	Würzburg Institute for Traffic Sciences	DE

1.3 Description of the main S&T results/foregrounds

FOT-Net provided a service-oriented platform for FOT experts and stakeholders and an information Platform to raise awareness on FOT issues. The following activities were performed to fulfil this role.

FOT Wiki: Gathering and sharing FOT information.

FOT-Net has created the FOT Wiki, the free encyclopaedia of FOTs to which anyone can contribute. It can be accessed at <http://wiki.fot-net.eu>. Through the Wiki pages, FOT-Net and the FOT community aim to build a catalogue of key information about various past, current and planned field tests in Europe, North America and Asia-Pacific. The wiki-based catalogue is an online, open, free (but moderated) encyclopaedia. Visitors need only register to create a user access with a username and password to start editing the Wiki.

A key section of the Wiki is the FOT Catalogue which lists past and present FOT activities for anyone interested in FOTs, their methodology, set-up and results. The purpose of the Field Operational Tests Catalogue is to offer publicly a catalogue of the National, European and international FOT activities with in-depth information and contact details in order to keep the stakeholders informed of past, current and future FOT activities and experiences. Pilot projects and Naturalistic Driving Studies have been added. Currently 147 projects are included.

Other important sections in the Wiki are the FESTA handbook and the Tools for FOTs. The tools inventory aims to list and specify tools as far as the tool specification is accessible and public. In this way future FOTs/NDS should be able to re-use existing tools and adapt these according to their specific needs instead of having to develop new tools starting from scratch.

A link is available to the iMobility effects database, which gives an overview of published journal articles, impact assessments and project results for different vehicle applications. The FOT Wiki also hosts a special page on C-ITS (Cooperative ITS) FOT results, maintained by COMeSAFETY.

Over its life-time the number of content and use of the Wiki is progressing, therefore justifying its usefulness. The growing number of users (650 registered users) is especially encouraging as content is now being uploaded by a wide community of experts and researchers outside of FOT-Net consortium. Throughout FOT-Net 2 a number of actions have been taken, such as the possibility to include videos and of the map with location of FOTs. A solid basis is in place for the continuation of the FOT-Wiki as an operational tool even after the conclusion of FOT-Net 2 project. This tool will continue to be strongly recommended to disseminate other project results and its maintenance will be taken up by the FOT-Net Data project.

FOT Stakeholder meetings: A forum for cooperation, discussion and information exchange on high-priority FOT issues.

European players interested in FOTs used this medium to share information about planning, developments and results of trials which are being carried out at European and national levels. The aim of these meetings was to foster cooperation and exchange of information about the results of these field tests in terms of safety, efficiency, and environmental benefits, as well as cost-benefit and socioeconomic impact.

Seven stakeholders meetings and a final event were organised (note that the numbering continued after the first FOT-Net project):

5th Stakeholders Workshop “Deployment Roadmap: how FOTs are used to reach policy goals” on 24/03/2011 in Brussels. Speakers from Public Authorities, Industry and Research were invited to share their best practices.

6th Stakeholders Workshop “Exploitation of FOT results” on 28/11/2011 in Brussels. Issues discussed were how to transfer the FOT results and what the expectations from stakeholders are. Since the POLIS conference took place the day after, cities and regions were one of the targets of the Stakeholders workshop. A session was dedicated to innovation incubators and was organised in cooperation with the SATIE project.

Coordination Day on Cooperative Systems FOTs (7th Stakeholders workshop) on 25/05/2012 in Brussels. Key issues related to Cooperative Systems FOTs were addressed.

8th Stakeholders Workshop “Lessons learned from Pilots on Cooperative Systems”, on 26/02/2013 in Brussels. Issues such as interoperability, data sharing and deployment were addressed.

Projects that were involved were FREILOT, COSMO, COMPASS4D, ECOMOVE, CO-CITIES, and MOBINET.

9th Stakeholders Workshop “Speed Alert: from research to deployment”, on 04/06/2013 in Dublin, before the European ITS Congress. This workshop was a joint FOT-Net - ADASIS - TN-ITS initiative. Speed systems in different forms have been studied for quite a long time and this workshop brought together the results and discussed the perspectives.

10th Stakeholders Workshop “Naturalistic Driving Studies” on 26/11/2013 in Brussels, organised in collaboration with the UDRIVE project. Naturalistic Driving Studies (NDS) in the US and Europe were discussed, as well as NDS for different types of vehicle. Deployment of the results of NDS was also a major theme.

The final event of FOT-Net on 18/03/2014 in Amsterdam. This was an additional event, agreed in the last amendment of the Description of Work. This event looked back at both FOT-Net and FOTs and discussed the deployment of results and the legacy of FOT-Net. Representatives from academia, and public and private sectors were involved in looking forward to future challenges and opportunities. Finally the FOT-Net results and the network were handed over to the new support action: FOT-Net Data. The first workshop of this project took place the next day.

In total, over the seven stakeholders workshops held, there were 257 participants (including speakers), with an average of 37 participants per workshop, coming from 117 organisations. There was a good mix from the different stakeholder groups.

All presentations and the reports are available at the website: <http://fot-net.eu/library>.

International Workshops: Fostering cooperation across regions.

Beyond Europe FOT-Net provided a platform for strategic interaction and networking at the international level through the organisation of international FOT workshops. Through this platform stakeholders from Europe, North America and Asia-Pacific have been exchanging information and best practices.

The general objectives of the international workshops included:

- To reinforce the global FOT network in order to exchange knowledge and best practices, and to foster cooperation for FOT activities.
- To support the coherent development and implementation of FOTs at European and International levels.
- To increase the cooperation between FOT activities and their stakeholders leading to faster and more effective take up of Intelligent Transport Systems and Services.

The workshops took the form of four round tables in the morning, in which experts discussed specific topics, and in which the audience could participate, and a plenary session in the afternoon in which representatives from the three regions (Europe, US and Asia-Pacific) updated the audience on the FOT developments in their region and the convenors of the round tables presented their conclusions. The FOT-Net working groups were actively involved in the organisation of the round tables, and used these events to gather feedback for their work as well as presenting their findings to international experts. In all round tables, experts from different regions were involved.

Three international workshops were organised (note that the numbering continued after the first FOT-Net project):

- 4th International Workshop on 16/09/2013 in Orlando. Topics addressed were: Cooperative Systems FOTs across the globe - What should be harmonized at this stage and what not?, Actions linking to deployment, Tools for FOTs – From data acquisition to data analysis, and Setting priorities for Large Scale Naturalistic Driving observations.
- 5th International Workshop on 21/09/2012 in Vienna. Topics addressed were: Data Analysis, Impact Assessment & Scaling up, Data Sharing in the context of Cooperative Systems FOTs, and Naturalistic Driving Studies - Event & Incidents Definition.
- 6th International Workshop on 15/10/2104 in Tokyo. Topics addressed were: Data and Impact analysis, Strategies for deployment and satisfying stakeholders’ needs, Sharing of driver data from FOTs and Naturalistic Driving Studies, and Sharing of cooperative systems data.

A total of 141 persons participated in the three international workshops (48 on average). Half of the number of participants came from outside Europe, thus making these workshops truly international.

The reports from all the stakeholders and international workshops are collected in Deliverable D2.2 – Report on FOT Network activities. All presentations and the reports are available at the website: <http://fot-net.eu/library>.

FOT Methodology: The revision of FESTA and the Working Groups.

The EC-funded FESTA project produced in 2008 a handbook of good practice, providing practical guidelines conducting FOTs. It takes the reader through the whole process of planning, preparing, executing, analysing, and reporting a FOT, and it gives information about aspects that are especially relevant for studies of this magnitude, such as administrative, logistic, legal and ethical issues. Another aspect of the Handbook is to pave the way for standardisation of some aspects of FOTs, which would be helpful for cross-FOT comparisons.

With the experience gathered across Europe and beyond, FOT-Net 2 has revised and adapted, in the first 6 months, the FESTA methodology for FOTs on ADAS, Nomadic devices, Cooperative systems, and for Naturalistic Driving Studies. In addition, the entire revised FESTA handbook has been inserted in the FOT-Net Wiki, with a dedicated article/Wiki page for each chapter of the handbook. A second revision was made at the end of the project, based on the results from workshops and seminars, and the new knowledge generated by the FOT-Net working groups. The experiences from national and European FOTs formed the basis for this revision. The new FESTA handbook is accessible on the FOT Wiki: http://wiki.fot-net.eu/index.php?title=FESTA_handbook.

Dedicated **FOT-Net Working Groups** (WGs) were launched in September 2011 to address a specific set of issues to further enhance and revise the FESTA methodology for FOTs. Experts from the FOT community at the European and International level were invited to take part in the WGs. Their discussions achieved commonly agreed positions on the specific WG topics. The WGs were led by a FOT-Net convenor with the contribution of other FOT-Net partners, and participation to the WGs was open to the wider FOT community. The following WGs were established:

- Data Analysis
- Events and incident definition
- Legal and Ethical issues
- Impact assessment and scaling up
- Data sharing

The working group on data analysis gathered experiences based on lessons learned from conducted FOT or NDS with respect to the experimental design, data collection, data processing, data storage,

and data analysis. Key issues are resulting from missing interactions and links to the planning and implementation phase. It is recommended to the analysis team to be involved in the planning and the implementation of FOTs from very beginning of the project.

The Events and Incident Definition working group worked on the issue of how to define crash relevant events in NDS/FOT studies. Since the most direct measure of crash risk (i.e. actual crashes) are incredibly rare events, other “surrogate” event types have to be used for assessing the influence of driver behaviour(s) or safety technologies on crash risk. A key challenge to analysis and interpretation of NDS/FOT data is therefore how to couple non-crash events to crash causation mechanisms. Unfortunately, precise definitions of Crash Relevant Events with a clear-cut, undisputable connection to crash involvement have yet to be fully established. For the revised FESTA handbook guidelines were developed for researchers who in the process of defining Crash Relevant Events.

The working group on legal and ethical issues collected information from different EU-Member States on the legal issues relevant for FOTs and NDS at national level. This information allowed for an overview of challenges that need to be overcome for specific test-designs if implemented in these countries. It has furthermore led to a broader view on the legal and ethical issues with immediate relevance for the FESTA methodology.

Within the working group on Impact Assessment and Scaling up experiences from FOTs were gathered. Major issues that were discussed in the WG were piloting, participant selection and experimental set-up, safety impact assessment, data issues, scaling up and the integration of results. For piloting the importance to pilot the whole data flow, up till and including impact assessment is stressed, and the recommendation to pilot yourself is given. For participant selection and experimental set-up the issue of seasonal effects and the length of baseline and treatment period are handled. Data issues that are discussed are the collection of explanatory data and the need to specify alternative sources for data (fall-back options). In safety impact assessment and scaling up there are gaps in knowledge and in data availability. The methods currently known are described with some information on which method can be used in which situation. With regard to the integration of results, the difficulty does not lie in the fact that people do not know in theory how it should be done and that it costs a lot of time, but in the fact that in reality things are different and there is not enough time and/or budget to do things as thoroughly as they should be done. This also holds for piloting.

The working group on Data Sharing developed recommendations for a data sharing platform. A substantial amount of funding has been demanded for performing an NDS or an FOT including preparation work, data collection, data preparation and finally the analysis. To make further use of the data and thereby the invested money, a data sharing platform was recommended to facilitate for additional research re-using the already collected data. The platform spanned from the early pre-requisites in the legal documents to permit data sharing, to recommended procedures and templates to enable re-use and at the same time protect the participants’ data privacy and the data ownership rights. The platform also addressed the need for research support services and the issue of funding of the huge amount of collected data after the initial project has ended.

The WGs were actively engaged in stakeholder and international workshops and seminars to present and to discuss their results, and to gain information and experiences from FOT experts (both European and international). Their findings were reported in the WG reports, which are gathered together in Deliverable D3.2 – Addition to FOT methodology. The reports are available on: All presentations and the reports are available at the website: <http://fot-net.eu/library>.

FOT seminars: Debating and learning about methodological issues.

FOT-Net has been a meeting place for FOT experts who at targeted seminars discussed the implementation of FOT methodology (FESTA). The seminars ensured knowledge transfer on FESTA and also allowed for an exchange of experience between FOT participants. FOT-Net 2 has focused on both European and national FOTs in the last phases of their life-cycle, as well as on newly started FOTs, with a special focus on Cooperative Systems FOTs. It has built on the experiences gained from the successful seminars organised in the first FOT-Net. In total seven seminars were held in FOT-Net 2.

Each of the seminars had specific topics which have been explicitly articulated by the FOT network and need common European positions. The seminars were aimed at people involved (or who want to be) in national and European FOTs. They were organised at different locations and whenever appropriate, combined with other relevant events. There were a number of presentations delivered by invited specialists from both inside and outside the FOT-Net consortium, within Europe and beyond. The seminars have been proven to be a useful and effective tool to share user experience and obtain feedback on the FESTA methodology.

Seven seminars were organised:

Seminar 1: “Practical issues in starting up a FOT of Cooperative Systems and defining research questions, hypotheses and performance indicators” on 15/04/2011 in Vigo.

Seminar 2: “Interpretation and presentation of results” on 29/11/2011 in Aachen.

Seminar 3: “FESTA for Beginners”, focussed on participants who are new in to FOTs, on 09-10/05/2012 in Pisa.

Seminar 4: “Complementarity of different FOTs and re-use of data” on 26/11/2012 in Brussels.

Extra seminar: “FESTA and impact analysis for CIP pilot projects”, on 04-05/04/2013 in Barcelona. The four electromobility pilots MOLECULES, SmartCEM, ICT4EVEU and MOBI.Europe participated in this seminar.

Seminar 5: “Tools for gathering and analysing data, especially in FOTs of cooperative systems”, On 25/04/2013 in Berlin.

Seminar 6: “FOT achievements and opportunities for the future”, 23/09/2013 in Versailles.

FOT-Net 2 seminars have broadened and deepened the most difficult issues and topics that were raised from other project activities such as the Working Groups and the Workpackages on Tools and Stakeholder needs. The organisation of the seminars has made a direct and substantial contribution to the revision of the FESTA methodology in order to incorporate new experiences and lessons learned from the current European and national FOTs.

The seminars were attended by about 180 participants, 27.5 participants on average, from a total of 68 organisations. Evaluations by participants were positive; the sessions were rated by 90% of participants as good to very good. After each seminar presentations and a full report were made available on the website: All presentations and the reports are available at the website: <http://fot-net.eu/library>. All reports are gathered in Deliverable D4.2 – Report on FOT seminars (consolidated).

Knowledge transfer about FESTA will continue in the FOT-Net Data project, where e-learning modules on FESTA will be developed.

Tools for FOTs: Gathering an inventory of FOT and NDS tools.

Conducting a FOT or a Naturalistic Driving Study (NDS) requires specific tools. In previous projects these tools were developed each time a FOT or NDS was conducted by the FOT/NDS partners, taking into account the specific needs and requirements of their FOT/NDS. This led to a considerable amount of work, which partly could have been avoided if existing tools would have been used and, additionally, if these tools would have been developed in a more general way considering a broader field of application, and not only the projects they were developed for.

FOT-Net 2 has made an inventory of FOT and NDS tools which can be used by all parties interested in conducting an FOT/NDS. The inventory aims to list all tools and specify these tools in so far as the tool specifications are accessible and public. In this way future FOTs/NDS should be able to re-use existing tools, and just adapt these according to their specific needs instead of developing new tools starting from scratch. The following tools are considered: tools for data acquisition, tools for data management, and tools for data analysis. Also tools on planning, monitoring, and test control for cooperative system FOTs were taken into account. There are now descriptions of 90 tools available.

The inventory is available on the FOT-Net Wiki: http://wiki.fot-net.eu/index.php?title=Tools_for_FOTs, allowing other FOT experts, in addition to FOT-Net 2 partners, to contribute to the enlargement of the inventory of tools. The tools are also described in Deliverable D5.1 – Tools for FOT. The tools collection will continue in the FOT-Net Data project, with an emphasis on tools enabling and facilitating data sharing.

Stakeholders needs: Gathering and analysing stakeholders' needs using a methodological tool.

FOT-Net 2 has undertaken an evaluation of contributions of FOTs to policy goals and market deployment (including lessons to be learned for the future). The evaluation comprised two steps; first a specific methodological tool for stakeholder analysis was developed, which was then applied in a second step in the identification of stakeholders' needs and the evaluation of FOTs previous contributions to meet them. Results of this second step fed into a deployment strategy for the future.

After the preparations accomplished during the first period (finalising the questionnaires and identifying the stakeholders), the targeted consultation began during the second quarter of the second period. The questionnaires were also sent to the whole FOT community. Additional efforts had to be made to gather a sizeable number of replies. The filled-in questionnaires of 41 involved and 14 non-involved stakeholders were analysed. The results show that stakeholders have a large variety of expectations when first participating in a FOT. At this stage, aspects concerning research and development, such as, for example, impact analysis or system testing, play the most prominent role but also instrumental aspects (e.g. gaining experience or collaboration), and deployment related expectations (e.g. economy/business case or promotion) are repeatedly mentioned. According to the large majority of stakeholders, those expectations have been met by the FOT they participated in. For those where this was not fully the case, deployment-related reasons seem to be most prevalent.

A workshop on Cooperative systems deployment was held on 23 May 2013 near Torino, and a WP6 workshop on deployment strategy on 24 May 2013. The common workshop was jointly organised by FOT-Net and COMeSafety2 to discuss the current status of European activities around the theme of deployment of cooperative ITS (C-ITS), and to hear from those interested to deploy C-ITS what they still require before they can take a deployment decision.

In Deliverable D6.2 – Stakeholder needs analysis – the results from the questionnaires and the workshop are given. In the second part, deployment strategy is addressed. The results from the

workshop as well as the opinions of a road operator and a car manufacturer, described in case-studies in the deliverable, also emphasize the importance of collaboration of stakeholders for the future deployment of systems, as well as the formulation of business cases, as highly relevant outcomes of FOTs.

Regarding policy decision making it was pointed out that it is important that the results of a FOT can be reflected in the policies and the objectives of policy makers and public authorities. Furthermore, in order to ensure that the results are valuable for the public body in terms of meeting their mobility policies and fulfilling their core objectives, it is important to involve local authorities in relevant FOTs from the beginning - especially with regard to the development of the research questions, and also in the set-up of the evaluation of the FOT.

1.4 Potential impact

FOT-Net 2 has contributed to the strategic priorities of the 2007 ICT Work programme and the associated FP7 2nd call: Challenge 6: ICT for Mobility, Environmental Sustainability and Energy Efficiency - Objective ICT-2007.6.2: ICT for Cooperative Systems:

Improved safety, efficiency and competitiveness of transport systems across Europe, towards the objective of reducing fatalities within the EU.

A key target of the FOT-Net 2 partners is to support a faster market deployment of ICT based systems for transport. By supporting actively national and European FOTs, FOT-Net 2 has contributed to bringing more momentum to FOT activities in Europe and creating a wide diversity of comparable assessments of ICT-based technologies related to safer, cleaner and more efficient transport. FOT-Net had already put in place a platform with a number of tools that contribute to bringing momentum to European FOT activities, namely the Stakeholders and International Workshops, the FOT Catalogue (FOT Wiki), promotion of FOT methodology (FESTA) and dissemination tools. FOT-Net 2 has continued to make use of these tools, and has further strengthened them.

FOT-Net 2 plays a functional role for the success and visibility of European and national FOT activities, and therefore stimulates market deployment of ICT based systems not only in Europe, but also in other countries, especially in the US and Asia-Pacific regions. By bringing together all stakeholders, FOT-Net 2 promoted the exploitation of results generated by the European research within previous RTD programmes, and the adoption of relevant standards to support a world leadership role of Europe's industry. In stakeholders meetings deployment and exploitation of results were discussed.

Wider uptake of intelligent vehicle systems and co-operative systems through proof of concept to all stakeholders in Field Operational Tests.

FOT-Net 2 has continued to support the FOTs of ADAS and Nomadic Devices, and also extended support to the Cooperative Systems FOTs (such as FOTsis and DRIVEC2X) as well as Naturalistic Driving Studies (UDRIVE), transferring knowledge and experience from the first group of FOTs (especially euroFOT and TeleFOT) to the second group. The seminar on "Interpretation and presentation of results" at the end of a FOT was an example of support to the first group.

FOT-Net 2 has contributed to gathering around one table the different Cooperative Systems stakeholders in order to reach a good understanding of the FOT methodology needed to guarantee

comparability, reliability and trust of the FOT results. A seminar was organised dedicated to the “Practical issues in starting up a FOT of Cooperative Systems and defining research questions, hypotheses and performance indicators”. Cooperative Systems FOTs such as FOTsis and DRIVE C2X contributed actively to this seminar. The seminar FESTA for newcomers, aimed to involve participants (and projects) who are new to the FOT community, and again there was an active participation from FOTsis and DRIVE C2X. A special session was organised on Cooperative Systems FOTs during the ITS World Congress in Vienna. The cooperative system community represents a large spectrum of stakeholders from Car manufacturers to Road operators, and are now represented in the FOT-Net 2 partnership and in the network. The coordination day for Cooperative Systems FOTs addressed interoperability, data sharing, dissemination and deployment. The workshop on Cooperative systems deployment was jointly organised by FOT-Net and COMeSafety2. The seminar on tools for gathering and analysing data had as emphasis tools in FOTs of cooperative systems. Workshops addressed the pilot projects; in the workshop on Lessons learned from Pilots on Cooperative Systems the FREILOT, COSMO, COMPASS4D, ECOMOVE, CO-CITIES, and MOBINET projects were involved. The extra seminar – FESTA and impact analysis for CIP pilot projects - was organised for the four electromobility pilots MOLECULES, SmartCEM, ICT4EVEU and MOBI.Europe.

Naturalistic Driving Studies were targeted in the 10th Stakeholders Workshop on Naturalistic Driving Studies, which was organised in collaboration with the UDRIVE project. During the European ITS Congress in Dublin a special session was organised jointly with UDRIVE on the theme “Synergy between naturalistic driving studies and field operational tests”.

However, ADAS FOTs are still important, so the theme of the 9th Stakeholders Workshop was “Speed Alert: from research to deployment”, a joint FOT-Net - ADASIS - TN-ITS initiative. The revised FESTA methodology is now more suitable for use in Cooperative systems FOTs, pilot projects and Naturalistic Driving Studies. With COMeSAFETY an information exchange section has been set-up in the framework of the FOT-Net Wiki.

In order to profit from the large amounts of data that are gathered in FOTs, and to share the data in the FOT community so both industry and research organisation can use these data and learn more about the way in which drivers use ITS, data sharing was an important focus. Seminar 4 was dedicated to this topic, looking at the complementarity of projects, and the ways in which data can be shared. One of the working groups is especially devoted to the topic of data sharing, and made a major contribution to the coordination day as well as to the round tables at the ITS World Congresses. The support action FOT-Net Data, which started in January 2014, is dedicated to this topic. The project will also continue the FOT-Net networking activities.

Finally, deployment of FOT results, both by industry and by decision makers, was one of the major themes in all workshops. WP6 on stakeholder needs analysis was also dedicated to deployment strategy. The last seminar - FOT achievements and opportunities for the future - addressed this theme as well.

Increased European research excellence by fostering closer cooperation with leading international partners.

FOT-Net has triggered FOT collaboration since its first days. Already in 2008, the first international workshop in New York attracted key official representatives from Japan (MLIT) and the US (DoT). Since then they consider FOT-Net as a reference point for the FOT activities in Europe. This led to more intensive exchange of expertise across regions with dedicated workshops and visits.

During FOT-Net 2, this cooperation continued through the Stakeholders and International Workshops as well as in the efforts to further expand information from international FOTs in the FOT Catalogue. FOT-Net 2 has also benefitted from the contributions from Associated Partners in the field of Naturalistic Driving Studies who have active links with US activities such as SHRP2 and TRB.

The links established with US and Japan have been strengthened especially with US DOT, MLIT and members of ITS Japan. The International Workshops in Orlando, Vienna and Tokyo clearly showed that FOT-Net has gained interest from the US and Japan (and other Asian and Pacific countries); stakeholders attending from these regions included representatives from public and private sectors. The FOT-Net 2 working groups have active members from the US, Canada, Australia, Japan, and Taiwan.

A special contribution was made in the third period in the framework of the collaboration between the US, Japan and Europe on probe data. The Commission had requested a contribution from iMobility Support and FOT-Net. After an open tender and an evaluation of the proposals FOT-Net commissioned the study to FTW (FTW Forschungszentrum Telekommunikation Wien GmbH). The Literature Study on the State of the Art of Probe Data Systems in Europe by Sandford Bessler and Thomas Paulin can be found at: http://www.fot-net.eu/download/fcd-report_final.pdf.

FOT-Net 2 has continued to promote European and National FOTs among the international counterparts. These efforts have been rewarded as FOT experts from around the world contributed directly or indirectly to the European FOT activities, thus, bringing increased research excellence to Europe.

1.5 Address of the project public website, contractual references and relevant contact details

Coordinator: Maxime Flament, ERTICO – ITS Europe

Yvonne Barnard, ERTICO – ITS Europe

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Total costs: 1.858.899M€

EC contribution: 1.460.000M€

Start date: 01/01/2011

End date: 31/03/2014

Duration: 39 months

Consortium: 15 Partners and 19 associated partners

Project Officer: Myriam Coulon-Cantuer, DG CONNECT

Website: <http://www.fot-net.eu/>



2 Use and dissemination of foreground

Section A (public)

A plan for dissemination was put in place at the beginning of the FOT-Net project. The overall aim of FOT-Net dissemination activities was:

- to promote the findings and results of various Field Operational Tests carried out at European and national level;
- to promote the FOT-Net networking activities across various stakeholder groups and increase participation of key-stakeholders in FOT-Net activities;
- to create awareness, understanding and support about Field Operational Tests carried out in Europe for safer, more comfortable and more efficient transport networks across Europe.

FOT-Net dissemination activities addressed as main target groups: specialists from research and industry, and decision makers from public authorities and FOT funding organisations. It was deemed more appropriate to leave the general public as target of the individual FOT projects. Nevertheless FOT-Net provided guidance and offered support on how to best communicate through the FOT-Net blueprint for dissemination support to FOT projects in Europe (Deliverable D7.4), which was updated with good practice examples from the euroFOT, FOTsis and DRIVE C2X projects at the end of the FOT-Net 2 project, it is available in the FOT-Net library: <http://www.fot-net.eu/en/library/>. The main messages varied according to target groups as did the media and means used for dissemination and awareness-raising.

FOT-Net used a range of dissemination tools to reach out to the identified target groups, namely the FOT-Net website, FOT Wiki, newsletter and newsflashes, brochure and press articles. The project also used the FOT-Net stakeholders meetings and seminars, and events organised by others to disseminate FOT-Net activities and information about FOT projects.

The conclusion about the dissemination activities is that FOT-Net:

- is recognised by the community as the networking and dissemination platform for FOTs. It has established contacts with many FOT projects which now use FOT-Net as dissemination tool and networking platform.
- has offered guidance to FOT projects on how to use the FOT-Net platform for dissemination and given advice for dissemination towards the general public.
- informed the specialist audience about FOT methodologies, and details of past and ongoing FOT projects (hypothesis, test procedure, results, etc.).
- informed decision makers about the systems and services tested, expected benefits, test results and stakeholders involved, policy frameworks, etc.
- is visible through a range of promotion and communication materials.

The tools that have been developed in FOT-Net 2 will continue to be used in FOT-Net Data support action.

FOT-Net has developed and used a range of dissemination tools and services:

- Website with information about FOT activities (news, events and documents): <http://www.fot-net.eu/>.
- Newsletters featuring articles and interviews were published: six newsletters were produced and were distributed electronically to some 1100 contacts. In addition they were circulated at all FOT-Net events and other events.
- Regular newsflashes were sent to some 1100 contacts.
- FOT-Net Linked-In Group Social Media which provides opportunities to share information and gain support for FOT activities and events. FOT-Net has a LinkedIn group with more than 233 members: www.linkedin.com/groups/FOTNet-4094844
- Organisation of meetings and seminars.
- Distribution of printed materials (leaflets, newsletters, notepads, pens, USB keys).
- Roll-up posters displayed at meetings and events.
- FOT-Net leaflet, the latest version is only available electronically <http://www.fot-net.eu/en/library/library.htm>.
- Brochure – Field Operational Tests From Research Question Towards Deployment. The printed version is available and is disseminated at events. The electronic version can be found at: <http://www.fot-net.eu/en/library/library.htm>.
- FOT-Net Guide to dissemination for Projects in Europe (formerly known as Blueprint) was updated with the good dissemination practice examples in the form of factsheets which are also available as separate documents. The factsheets cover DRIVEC2X, euroFOT, and FOTsis examples on good dissemination activities. The electronic version can be found at <http://www.fot-net.eu/en/library/library.htm>. It is also available in printed form for dissemination purposes.

Other dissemination tools include the information platforms provided by FOT-Net partners ERTICO, FIA and POLIS who regularly produce their own electronic newsletter and include articles about the FOTs.

TEMPLATE A2: LIST OF DISSEMINATION ACTIVITIES

NO	Type of activities ³	Title	Date/Period	Place	Type of audience ⁴	Size of audience	Countries addressed
1.	Workshop	5th Stakeholders Workshop Deployment best practices	24/03/2011	Brussels	Scientific Community, Industry, Policy makers	45	EU
2.	Workshop	FOT-Net 6th Stakeholders Workshop Exploitation of FOT results	28/11/2011	Brussels	Scientific Community, Industry, Policy makers	39	EU
3.	Workshop	Coordination Day on Cooperative Systems FOTs (and 7 th Stakeholders Workshop)	25/05/2012	Brussels	Scientific Community, Industry, Policy makers	34	EU
4.	Workshop	8th Stakeholders Workshop on Lessons learned from Pilots on Cooperative Systems	26/02/2013	Brussels	Scientific Community, Industry, Policy makers	37	EU
5.	Workshop	9th Stakeholders Workshop Joint FOT-Net - ADASIS - TN-ITS Stakeholder Workshop Speed Alert: from research to deployment	04/06/2013	Dublin	Scientific Community, Industry, Policy makers	31	EU
6.	Workshop	10th Stakeholders Workshop Naturalistic Driving, in collaboration with UDRIVE	26/11/2013	Brussels	Scientific Community, Industry, Policy makers	25	EU
7.	Workshop	FOT-Net final event	18/03/2014	Amsterdam	Scientific Community, Industry, Policy makers	26	EU
8.	Workshop	Fourth FOT-Net International Workshop	16/10/2011	Orlando	Scientific Community, Industry, Policy makers	34	EU and international
9.	Workshop	Fifth International Workshop	21/10/2012	Vienna	Scientific Community, Industry, Policy makers	51	EU and international
10.	Workshop	International Workshop at ITS World Congress	14/10/2013	Tokyo	Scientific Community, Industry, Policy makers	59	EU and international
11.	Workshop	FOT-Net Seminar 1: Practical issues in starting up a FOT of Cooperative Systems and defining	15/04/2011	Vigo (Spain)	Scientific Community, Industry	30	EU

³ A drop down list allows choosing the dissemination activity: publications, conferences, workshops, web, press releases, flyers, articles published in the popular press, videos, media briefings, presentations, exhibitions, thesis, interviews, films, TV clips, posters, Other.

⁴ A drop down list allows choosing the type of public: Scientific Community (higher education, Research), Industry, Civil Society, Policy makers, Medias, Other ('multiple choices' is possible).

		research questions, hypotheses and performance indicators					
12.	Workshop	FOT-Net Seminar 2: Interpretation and presentation of results	29/11/2011	Aachen	Scientific Community, Industry, Policy makers		EU
13.	Workshop	FOT-Net Seminar 3: FESTA methodology for newcomers	10-11/05/2012	Pisa	Scientific Community, Industry, Policy makers	30	EU
14.	Workshop	FOT-Net seminar 4: Complementarity of different FOTs and re-use of data	26/11/2012	Brussels	Scientific Community, Industry, Policy makers	27	EU
15.	Workshop	FOT-Net Extra Seminar FESTA and impact analysis for CIP pilot projects	4-5/04/3013	Barcelona	Scientific Community, Industry	15	EU
16.	Workshop	FOT-Net seminar 5: Tools for gathering and analysing data, especially in FOTs of cooperative systems	25/04/2013	Berlin	Scientific Community, Industry	26	EU
17.	Workshop	FOT-Net Seminar 6: FOT Achievements and opportunities for the future	23/09/2013	Versailles	Scientific Community, Industry, Policy makers	22	EU
18.	Workshop	FESTA Interactive Workshop	08/09/2011	Gothenburg	Scientific Community, Industry, Policy makers		EU
19.	Workshop	FOT-Net –COMeSafety Joint Workshop	23/05/2013	Torino	Scientific Community, Industry, Policy makers	21	EU
20.	Workshop	FESTA Workshop for the revision of the FESTA handbook	4-6/11/2013	Torino	Scientific Community, Industry, Policy makers	25	EU
21.	Workshop	Webinar: Navigating the FESTA Methodology from the perspective of NDS	25/10/2011	Webinar	Scientific Community, Industry, Policy makers		EU
22.	Workshop/Webinar	Webinar: Navigating the FESTA Methodology from the perspective of Nomadic Devices FOTs	31/10/2011	Webinar	Scientific Community, Industry, Policy makers		EU
23.	Workshop/Webinar	Webinar: FESTA Methodology from the perspective of Cooperative Systems	10/11/2011	Webinar	Scientific Community, Industry, Policy makers		EU
24.	Workshop/Webinar	Webinar Working group on impact analysis	28/05/2013	Webinar	Scientific Community, Industry, Policy makers		EU
25.	Workshop/Webinar	Webinar Working group on event definition	03/09/2013	Webinar	Scientific Community, Industry		EU
26.	Presentation	FP7 ICT for Transport Concertation Meeting (FOT-Net led the concertation session on FOTs)	04-05/04/2011	Brussels	Scientific Community, Industry, Policy makers		EU
27.	Presentation	FOT-Net special session at ITS European Congress	06-09/06/2011	Lyon	FOT-Net partners		EU
28.	Presentation / dissemination material	FOTsis Kick off meeting	13-14/04/2011	Madrid	Scientific Community, Industry, Policy makers		EU
29.	Presentation / dissemination	FOT-Net presentation at FIA Eurocouncil event	17-19/05/2011	Estoril	Scientific Community, Industry, Policy makers		EU

	material						
30.	Presentation	Prologue final event, FOT-Net presentation	22/06/2011	Vienna	Scientific Community, Industry, Policy makers		EU
31.	Presentation / dissemination material	iMobility International Cooperation WG	03/10/2011	Brussels	Scientific Community, Industry, Policy makers		EU
32.	Presentation	Special Session the ITS World Congress on FOTs: moving ahead towards ITS deployment	20/10/2011	Orlando	Scientific Community, Industry, Policy makers		EU and international
33.	Presentation / dissemination material	COMeSafety Workshop, 7th International Workshop on Vehicle Communications for Safety and Sustainability at ITS World Congress	21/10/2011	Orlando	Scientific Community, Industry, Policy makers		EU and international
34.	Presentation / dissemination material	TRA 2012 Congress, Presentation on FOTs in Europe	23/04/201	Athens	Scientific Community, Industry, Policy makers		EU
35.	Presentation	EU-Japan cooperation Workshop on ITS, Presentation on FOTs in Europe	15/05/2012	Tokyo	Scientific Community, Industry, Policy makers		EU and international
36.	Presentation	EUCAR Integrated Safety Program Board, Report on FOT-Net activities	23/05/2012	Brussels	Scientific Community, Industry, Policy makers		EU
37.	Presentation	Special session at ITS World Congress on Cooperative ITS Field Operational Tests in Europe	25/10/2012	Vienna	Scientific Community, Industry, Policy makers		EU and international
38.	Presentation / dissemination material	Telefot final event, involvement in panel	27-28/11/2012	Brussels	Scientific Community, Industry, Policy makers		EU
39.	Presentation	FOTs club, presentation of FOT-Net progress	18/03/2013	Brussels	Scientific Community, Industry, Policy makers		EU
40.	Presentation	Concertation & iMobility Forum Plenary meetings, presentation of FOT-Net	16/04/2013	Brussels	Scientific Community, Industry, Policy makers		EU
41.	Presentation	Special Congress session on Synergy between naturalistic driving studies and field operational tests, in collaboration with UDRIVE	05/06/2013	Dublin	Scientific Community, Industry, Policy makers		EU and international
42.	Presentation	Presentation on data sharing at the Fast Zero Symposium in Nagoya	23-26/09/2013	Nagoya, Japan	Scientific Community, Industry, Policy makers		international
43.	Presentation / dissemination material	SCORE@F final event, FOT-Net presentation	24/09/2013	Versailles	Scientific Community, Industry, Policy makers		EU
44.	Presentation	Special Session at ITS World Congress Analysing the outcomes of Field Operational Tests	15/10/2013	Tokyo	Scientific Community, Industry, Policy makers		EU and international

45.	Dissemination material	Dutch Automotive week	15/05/2011	Helmond	Scientific Community, Industry, Policy makers		EU
46.	Dissemination material	INTERSAFE2 Final event event	17-18/05/2011	Worlfsburg	Scientific Community, Industry, Policy makers		EU
47.	Dissemination material	CoCarX final event	25/05/2011	Dusseldorf	Scientific Community, Industry, Policy makers		EU
48.	Dissemination material	EUCAR Conference	06/11/2012	Brussels	Scientific Community, Industry, Policy makers		EU
49.	Dissemination material	Annual Polis Conference	29-30/11/2012	Perugia	Scientific Community, Industry, Policy makers		EU
50.	Dissemination material	Polis annual conference	4-5/12/2013	Brussels	Scientific Community, Industry, Policy makers		EU
51.	Dissemination material	TRB annual conference	12-16/01/2014	Washington, D.C.,			
52.	Website	Project website www.fot-net.eu			Scientific Community, Industry, Policy makers		EU and International
53.	Website	FOT Wiki http://wiki.fot-net.eu/			Scientific Community, Industry, Policy makers		EU and International
54.	Leaflet	Project Leaflet			Scientific Community, Industry, Policy makers		EU and International
55.	Brochure	FOT-Net blueprint for dissemination support to FOT projects	06/02/2012 and 18/02/2014		Scientific Community, Industry, Policy makers		EU and International
56.	Brochure	Brochure Field Operational Tests From research question towards deployment	30/01/2014		Scientific Community, Industry, Policy makers		EU and International
57.	Newsletter	6 FOT-Net newsletters	Every 6 months		Scientific Community, Industry, Policy makers	1100 electronic subscribers	EU and International
58.	Article	Article on FOT-Net by Tom Alkim (RWS) in Thinking Highways (Volume 8, number 4)	Dec 2013-Jan 2014		Scientific Community, Industry, Policy makers		EU and International

3 Report on societal implications

A General Information *(completed automatically when Grant Agreement number is entered.*

Grant Agreement Number:	269983
Title of Project:	Field Operational Tests Networking and Methodology Promotion
Name and Title of Coordinator:	Maxime Flament, Head of Sector SafeMobility

B Ethics

<p>1. Did your project undergo an Ethics Review (and/or Screening)?</p> <ul style="list-style-type: none"> If Yes: have you described the progress of compliance with the relevant Ethics Review/Screening Requirements in the frame of the periodic/final project reports? <p>Special Reminder: the progress of compliance with the Ethics Review/Screening Requirements should be described in the Period/Final Project Reports under the Section 3.2.2 'Work Progress and Achievements'</p>	No
<p>2. Please indicate whether your project involved any of the following issues (tick box) :</p>	
RESEARCH ON HUMANS	
• Did the project involve children?	No
• Did the project involve patients?	No
• Did the project involve persons not able to give consent?	No
• Did the project involve adult healthy volunteers?	No
• Did the project involve Human genetic material?	No
• Did the project involve Human biological samples?	No
• Did the project involve Human data collection?	No
RESEARCH ON HUMAN EMBRYO/FOETUS	
• Did the project involve Human Embryos?	No
• Did the project involve Human Foetal Tissue / Cells?	No
• Did the project involve Human Embryonic Stem Cells (hESCs)?	No
• Did the project on human Embryonic Stem Cells involve cells in culture?	No
• Did the project on human Embryonic Stem Cells involve the derivation of cells from Embryos?	No
PRIVACY	
• Did the project involve processing of genetic information or personal data (eg. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction)?	No
• Did the project involve tracking the location or observation of people?	No
RESEARCH ON ANIMALS	
• Did the project involve research on animals?	No
• Were those animals transgenic small laboratory animals?	No
• Were those animals transgenic farm animals?	No
• Were those animals cloned farm animals?	No
• Were those animals non-human primates?	No

RESEARCH INVOLVING DEVELOPING COUNTRIES		
• Did the project involve the use of local resources (genetic, animal, plant etc)?		No
• Was the project of benefit to local community (capacity building, access to healthcare, education etc)?		No
DUAL USE		
• Research having direct military use		No
• Research having the potential for terrorist abuse		No
C Workforce Statistics		
3. Workforce statistics for the project: Please indicate in the table below the number of people who worked on the project (on a headcount basis).		
Type of Position	Number of Women	Number of Men
Scientific Coordinator	2	1
Work package leaders	5	5
Experienced researchers (i.e. PhD holders)		
PhD Students		
Other		
4. How many additional researchers (in companies and universities) were recruited specifically for this project?		
Of which, indicate the number of men:		

D Gender Aspects		
5. Did you carry out specific Gender Equality Actions under the project?	<input type="radio"/> X	Yes No
6. Which of the following actions did you carry out and how effective were they?		
	Not at all effective	Very effective
<input type="checkbox"/> Design and implement an equal opportunity policy	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
<input type="checkbox"/> Set targets to achieve a gender balance in the workforce	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
<input type="checkbox"/> Organise conferences and workshops on gender	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
<input type="checkbox"/> Actions to improve work-life balance	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
<input type="radio"/> Other: <input style="width: 200px;" type="text"/>		
7. Was there a gender dimension associated with the research content - i.e. wherever people were the focus of the research as, for example, consumers, users, patients or in trials, was the issue of gender considered and addressed?		
<input type="radio"/> Yes- please specify	<input style="width: 150px;" type="text"/>	
X No		
E Synergies with Science Education		
8. Did your project involve working with students and/or school pupils (e.g. open days, participation in science festivals and events, prizes/competitions or joint projects)?		
<input type="radio"/> Yes- please specify	<input style="width: 150px;" type="text"/>	
X No		
9. Did the project generate any science education material (e.g. kits, websites, explanatory booklets, DVDs)?		
X Yes- please specify	<input style="width: 150px;" type="text" value="http://Wiki.fot-net.eu"/>	
<input type="radio"/> No		
F Interdisciplinarity		
10. Which disciplines (see list below) are involved in your project?		
<input type="radio"/> Main discipline ⁵ : 2		
<input type="radio"/> Associated discipline ⁵ : 5	<input type="radio"/>	Associated discipline ⁵ :
G Engaging with Civil society and policy makers		
11a Did your project engage with societal actors beyond the research community? (if 'No', go to Question 14)	<input type="radio"/> X	Yes No

⁵ Insert number from list below (Frascati Manual).

11b If yes, did you engage with citizens (citizens' panels / juries) or organised civil society (NGOs, patients' groups etc.)?			
<input type="radio"/> No <input type="radio"/> Yes- in determining what research should be performed <input type="radio"/> Yes - in implementing the research <input type="radio"/> Yes, in communicating /disseminating / using the results of the project			
11c In doing so, did your project involve actors whose role is mainly to organise the dialogue with citizens and organised civil society (e.g. professional mediator; communication company, science museums)?			<input type="radio"/> Yes <input type="radio"/> No
12. Did you engage with government / public bodies or policy makers (including international organisations)			
<input type="radio"/> No <input type="radio"/> Yes- in framing the research agenda <input type="radio"/> Yes - in implementing the research agenda <input checked="" type="radio"/> Yes, in communicating /disseminating / using the results of the project			
13a Will the project generate outputs (expertise or scientific advice) which could be used by policy makers?			
<input type="radio"/> Yes - as a primary objective (please indicate areas below- multiple answers possible) <input checked="" type="radio"/> Yes - as a secondary objective (please indicate areas below - multiple answer possible) <input type="radio"/> No			
13b If Yes, in which fields?			
Information Society Transport Research and Innovation			

13c If Yes, at which level?		
<input checked="" type="checkbox"/>	Local / regional levels	
<input checked="" type="checkbox"/>	National level	
<input checked="" type="checkbox"/>	European level	
<input checked="" type="checkbox"/>	International level	
H Use and dissemination		
14. How many Articles were published/accepted for publication in peer-reviewed journals?		
To how many of these is open access⁶ provided?		
How many of these are published in open access journals?		
How many of these are published in open repositories?		
To how many of these is open access not provided?		
Please check all applicable reasons for not providing open access:		
<input type="checkbox"/> publisher's licensing agreement would not permit publishing in a repository <input type="checkbox"/> no suitable repository available <input type="checkbox"/> no suitable open access journal available <input type="checkbox"/> no funds available to publish in an open access journal <input type="checkbox"/> lack of time and resources <input type="checkbox"/> lack of information on open access <input type="checkbox"/> other ⁷ :		
15. How many new patent applications ('priority filings') have been made? (<i>"Technologically unique": multiple applications for the same invention in different jurisdictions should be counted as just one application of grant</i>).		
16. Indicate how many of the following Intellectual Property Rights were applied for (give number in each box).	Trademark	
	Registered design	
	Other	
17. How many spin-off companies were created / are planned as a direct result of the project?		
<i>Indicate the approximate number of additional jobs in these companies:</i>		
18. Please indicate whether your project has a potential impact on employment, in comparison with the situation before your project:		
<input checked="" type="checkbox"/> Increase in employment, or	<input checked="" type="checkbox"/> In small & medium-sized enterprises	
<input checked="" type="checkbox"/> Safeguard employment, or	<input checked="" type="checkbox"/> In large companies	
<input type="checkbox"/> Decrease in employment,	<input type="checkbox"/> None of the above / not relevant to the	

⁶ Open Access is defined as free of charge access for anyone via Internet.

⁷ For instance: classification for security project.

<input type="checkbox"/> Difficult to estimate / not possible to quantify	project
19. For your project partnership please estimate the employment effect resulting directly from your participation in Full Time Equivalent (FTE = one person working fulltime for a year) jobs:	<i>Indicate figure:</i>
Difficult to estimate / not possible to quantify	X
I Media and Communication to the general public	
20. As part of the project, were any of the beneficiaries professionals in communication or media relations?	
<input type="radio"/> Yes <input checked="" type="radio"/> No	
21. As part of the project, have any beneficiaries received professional media / communication training / advice to improve communication with the general public?	
<input type="radio"/> Yes <input checked="" type="radio"/> No	
22 Which of the following have been used to communicate information about your project to the general public, or have resulted from your project?	
<input type="checkbox"/> Press Release	<input type="checkbox"/> Coverage in specialist press
<input type="checkbox"/> Media briefing	<input type="checkbox"/> Coverage in general (non-specialist) press
<input type="checkbox"/> TV coverage / report	<input type="checkbox"/> Coverage in national press
<input type="checkbox"/> Radio coverage / report	<input type="checkbox"/> Coverage in international press
<input type="checkbox"/> Brochures /posters / flyers	<input type="checkbox"/> Website for the general public / internet
<input type="checkbox"/> DVD /Film /Multimedia	<input type="checkbox"/> Event targeting general public (festival, conference, exhibition, science café)
23 In which languages are the information products for the general public produced?	
<input type="checkbox"/> Language of the coordinator	<input type="checkbox"/> English
<input type="checkbox"/> Other language(s)	

Question F-10: Classification of Scientific Disciplines according to the Frascati Manual 2002 (Proposed Standard Practice for Surveys on Research and Experimental Development, OECD 2002):

FIELDS OF SCIENCE AND TECHNOLOGY

1. NATURAL SCIENCES

- 1.1 Mathematics and computer sciences [mathematics and other allied fields: computer sciences and other allied subjects (software development only; hardware development should be classified in the engineering fields)]
- 1.2 Physical sciences (astronomy and space sciences, physics and other allied subjects)
- 1.3 Chemical sciences (chemistry, other allied subjects)
- 1.4 Earth and related environmental sciences (geology, geophysics, mineralogy, physical geography and other geosciences, meteorology and other atmospheric sciences including climatic research, oceanography, vulcanology, palaeoecology, other allied sciences)

- 1.5 Biological sciences (biology, botany, bacteriology, microbiology, zoology, entomology, genetics, biochemistry, biophysics, other allied sciences, excluding clinical and veterinary sciences)

2. ENGINEERING AND TECHNOLOGY

- 2.1 Civil engineering (architecture engineering, building science and engineering, construction engineering, municipal and structural engineering and other allied subjects)
- 2.2 Electrical engineering, electronics [electrical engineering, electronics, communication engineering and systems, computer engineering (hardware only) and other allied subjects]
- 2.3. Other engineering sciences (such as chemical, aeronautical and space, mechanical, metallurgical and materials engineering, and their specialised subdivisions; forest products; applied sciences such as geodesy, industrial chemistry, etc.; the science and technology of food production; specialised technologies of interdisciplinary fields, e.g. systems analysis, metallurgy, mining, textile technology and other applied subjects)

3. MEDICAL SCIENCES

- 3.1 Basic medicine (anatomy, cytology, physiology, genetics, pharmacy, pharmacology, toxicology, immunology and immunohaematology, clinical chemistry, clinical microbiology, pathology)
- 3.2 Clinical medicine (anaesthesiology, paediatrics, obstetrics and gynaecology, internal medicine, surgery, dentistry, neurology, psychiatry, radiology, therapeutics, otorhinolaryngology, ophthalmology)
- 3.3 Health sciences (public health services, social medicine, hygiene, nursing, epidemiology)

4. AGRICULTURAL SCIENCES

- 4.1 Agriculture, forestry, fisheries and allied sciences (agronomy, animal husbandry, fisheries, forestry, horticulture, other allied subjects)
- 4.2 Veterinary medicine

5. SOCIAL SCIENCES

- 5.1 Psychology
- 5.2 Economics
- 5.3 Educational sciences (education and training and other allied subjects)
- 5.4 Other social sciences [anthropology (social and cultural) and ethnology, demography, geography (human, economic and social), town and country planning, management, law, linguistics, political sciences, sociology, organisation and methods, miscellaneous social sciences and interdisciplinary, methodological and historical S1T activities relating to subjects in this group. Physical anthropology, physical geography and psychophysiology should normally be classified with the natural sciences].

6. HUMANITIES

- 6.1 History (history, prehistory and history, together with auxiliary historical disciplines such as archaeology, numismatics, palaeography, genealogy, etc.)
- 6.2 Languages and literature (ancient and modern)
- 6.3 Other humanities [philosophy (including the history of science and technology) arts, history of art, art criticism, painting, sculpture, musicology, dramatic art excluding artistic "research" of any kind, religion, theology, other fields and subjects pertaining to the humanities, methodological, historical and other S1T activities relating to the subjects in this group]