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FOT-Net 2

Field Operational Tests Networking and Methodology Promotion



**REPORT FOT-NET
SIXTH STAKEHOLDERS WORKSHOP**

Brussels, 28 November 2011

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Introduction

FOT-Net stakeholders' workshops provide a forum for cooperation, discussion and information exchange, addressing FOT issues that have been identified as of high-priority to the stakeholders. European players interested in FOTs can use this medium to share information about planning, developments and results of trials which are being carried out at European and national levels.

FOT-Net's "Common Roll-out plan to support coherent development and implementation of FOTs" (http://www.fot-net.eu/download/Deliverables/fotnet_d22_v03.pdf) serves as guidance to setting-up the agenda of the Stakeholders workshops. However FOT-Net remains open and will listen to requests from the FOT community to tackle important issues that may arise. Feedback can be sent via the FOT Wiki or directly to info@fot-net.eu.

The theme of the 6th Stakeholders workshop was "*Exploitation of FOT results*". FOTs are a product on their own right but they are also a resource and a tool that can be used by stakeholders that were not directly involved in the execution of the FOT. Namely, FOT results will be used by policy makers to support their policy decisions and by industry players to make informed decisions about market introduction.

At their start FOT projects usually define an exploitation plan that draws attention to the value of the FOT that defines how to get the most out of the findings, at how to make the results live beyond the end of the FOT and ultimately make the link with ITS deployment.

In this edition of the Stakeholders workshop:

- Stakeholders from within and outside the FOT community discussed their specific expectations from FOT results and how it is ensured that they can exploit the results.
- Examples of exploitation plans of FOTs were presented and existing processes of transferring the results discussed.
- Stakeholders draw recommendations towards the sustainability of FOT results and how past experience can be capitalised.

In addition, the concept of innovation incubators was discussed, more specifically the use of test beds as an environment to evaluate ITS applications and also as a multi-stakeholders meeting point to explore new ITS solutions. The newly kicked-off EC funded project SATIE (Support Action for Transport – ICT European large scale action) discussed its plans for the definition of implementation schemes for pan-European test beds, incubators and services.

FOT-Net also took this opportunity to report on its activities namely the revision of the FESTA methodology, seminars, new working groups, tools for FOTs, and stakeholders needs analysis.

All presentations are available online:

http://www.fot-net.eu/en/networking/stakeholders_meetings/fot-net_6th_stakeholders_workshop_download_presentations.htm

2 Agenda

09:30	Coffee and registrations	
Setting the scene & FOT-Net's activities		
10:00	Meeting objectives	Irina Silva, ERTICO – ITS Europe
10:05	Current and future EC-funded FOT and pilot activities	Juhani Jääskeläinen, European Commission
10:15	Revised FESTA methodology & newly launched Working Groups FOT-Net seminars	Yvonne Barnard, University of Leeds
10:25	Inventory of Tools for FOTs	Adrian Zlocki, IKA
10:35	Stakeholders needs analysis: methodology and start of survey	Christhard Gelau, BAST
10:45	Q&A	
10:50	Break	
	Exploitation of FOT results: expectations from the stakeholders <i>Presentations will be followed by Q&A</i>	Moderator: Maxime Flament, ERTICO – ITS Europe
11:00	Views from a policy maker: <ul style="list-style-type: none"> • <i>How will the results be used?</i> • <i>How to influence high level change based on the results.</i> • <i>Comments on exploitation mechanisms.</i> 	Lars Tysklind, Committee on Transport and Communications, Member of Swedish Parliament
11:15	Views from a region: <ul style="list-style-type: none"> • <i>Same as above</i> • <i>What benefits FOTs can bring to the region?</i> 	Gebrand Klijn, Province of Noord-Brabant

11:30	Views from a user/industry player: <ul style="list-style-type: none"> • <i>Your impressions of being in a Pilot.</i> • <i>Are improvements needed in what regards future involvement of fleets in EU funded Pilots? E.g. simplifying administration, etc.</i> • <i>What has been the return on the investment made?</i> • <i>The Pilot has ended, how will the results be used/exploited? (main topic of presentation)</i> 	Jo van Hoef, Chief of Helmond Fire Brigade
11:45	Q&A	
12:00	Lunch & Networking	
	Exploitation plans <i>Presentations and Panel discussion</i>	Moderator: Kevin Borrás, H3B Media Ltd.
13:00	Stakeholder from euroFOT <ul style="list-style-type: none"> • <i>What will be done to ensure deployment?</i> • <i>What kind of needs does the project respond to?</i> • <i>What is the expected project result?</i> • <i>Who are the final or potential users or beneficiaries of the project's outcomes?</i> • <i>Exploitation activities and means used</i> 	Aria Etemad, Ford Research & Advanced Engineering Europe
	Stakeholder from TeleFOT <ul style="list-style-type: none"> • <i>Same as above</i> 	Stéphane Dreher, NAVTEQ
	Stakeholder from DRIVE C2X <ul style="list-style-type: none"> • <i>Same as above</i> 	François Fischer, ERTICO – ITS Europe
	Stakeholder from FOTsis <ul style="list-style-type: none"> • <i>Same as above</i> 	Emilio Cacheiro, OHL Concesiones
	<i>Panel Discussion and Questions from the Audience</i>	
14:15	Coffee break	
	ITS Innovation incubators <i>Presentations will be followed by Q&A</i>	Moderator: Maxime Flament, ERTICO – ITS Europe
14:30	Helmond Test Bed	Joelle van den Broek, Dutch Integrated Testsite Cooperative Mobility
14:45	Defining a large scale action	Stefanos Gouvas, European Commission

15:00	SATIE, Support Action for Transport – ICT European large scale action	Wil Botman, ANWB
15:15	Q&A	
15:20	Wrap-up	
15:30	Adjourn	

1 Setting the scene and FOT-Net activities

1.1 Meeting objectives and FOT-Net overview

Irina Silva (ERTICO –ITS Europe) opened the meeting with stating the objectives. She stated three keywords to today's workshop: Exploitation, mainstreaming and multiplication.

- How can FOT results be exploited as resources in the hands of others?
- How will we mainstream what has been found by the FOTs? In other words what are the processes in place for transferring the results?
- How can we multiply the findings, or in other words, what is the planned process for convincing the stakeholders to apply the results?

To address these questions, first expectations from stakeholders towards the results were to be presented.

The partners from 4 FOTs were invited to share their exploitation plans, two pan-European FOTs which are close to their end and two pan-European FOTs which have kicked-off this year.

At the end of today's workshop the aim was to understand if the expectations are being met by the plans of the FOT experts, and to draw recommendations on how we can make FOT results live beyond the end of the project.

FOT-Net is cooperating with this workshop also with the new EC project SATIE. We aim to learn more today about concepts of large scale actions and innovation incubators.

1.2 Revised FESTA methodology and newly launched Working Groups

Yvonne Barnard (University of Leeds) presented the new revision of the FESTA handbook, which was finalised in September 2011. Usability was improved, e.g. by using hyperlinks. Chapters were updated based on lessons-learned from seminars, workshops and FOT projects. Main issues related to dealing with complexity of FOTS, such as combination of functions, generation of hypotheses and research questions, pilot studies, data analysis and storage, socio-economic impact assessment, and legal and ethical aspects.

The FESTA handbook can now also be used from the perspective of: Cooperative systems, Nomadic Devices, and Naturalistic Driving Studies

In September five working groups were launched in order to generate new knowledge to be used for further updates of FESTA:

- Data analysis
- Events and incident definition
- Ethical and legal issues
- Impact assessment and scaling up
- Data sharing

All working groups are open to those who are interested. Communication and consultation will take place via mailing lists, webinars and workshops. The working groups will formulate recommendations for FESTA and report at stakeholder workshops.

1.3 Inventory of tools for FOTs

Adrian Zlocki (IKA) reported on the collection of the descriptions of tools that are useful in FOTs. The following categories of tools can be distinguished:

- Tools for data acquisition
- Tools for data base structure and data management
- Tools for data analysis
- Other tools (travel diary, questionnaire etc.) with focus on driver

All tool descriptions will be placed in the FOT-Net wiki, in the specially created tools section.

You can add your own descriptions!

http://wiki.fot-net.eu/index.php?title=Tools_for_FOTs

1.4 Stakeholders needs analysis: methodology and start of survey

Christhard Gelau (BAST) presented the stakeholder needs analysis work in WP6 of FOT-Net. A Stakeholder is a person or an organisation who could give support to FOTs and/or could be affected by FOT results. Past and current FOTs are often lacking a balanced representation of stakeholders. If we want to reach deployment this balance is crucial.

FOT-Net is currently exploring and mapping the needs of the stakeholders by a targeted consultation of those stakeholders who are actively involved (“actors”) and those who are not. A methodological approach is taken, qualitative expert interviews are conducted by means of an online questionnaire. The objectives are: exploration of awareness, past experiences, expectations and motives for active involvement or reserve.

2 Exploitation of FOT results: expectations from the stakeholders

In this session, moderated by Maxime Flament (ERTICO – ITS Europe), different types of stakeholders were asked to give their point of view on their expectations with regard to exploitation of the results of FOTs.

2.1 Views from a policy maker

Lars Tysklind, Member of Swedish Parliament on the Committee on Transport and Communications, addressed the following questions:

- How will the results be used?

- How to influence high level change based on the results.
- Comments on exploitation mechanisms

What politicians need are scientific facts, but that are easy to communicate, and directions for deployment. The role of the public opinion is crucial in politics. Policy makers have to make priorities in spending public funds. Results can be used in different ways: maybe legislation and standards can be made, but also incentives are a good instrument.

2.2 Views from a region

Gerbrand Klijn (Province of Noord-Brabant) gave his point of view, based on the experience in Noord-brabant with pilots and FOTs. Pilots and FOTs conducted are:

- Cooperative information between trucks and traffic lights (CVIS)
- Real-time bus information on smartphones
- Truck navigation
- GPS-based tolling system
- CAN-bus reading and GPS info
- 'Green and blue' zone – Incar system
- GPS-tolling FOT with real-time MM travel information on smartphones

These tests are performed because they provide a temporary solution to concrete problems, influencing decision makers to go for deployment or adaption. Other goals are: agenda setting, providing showcases to raise awareness (addressing hearts and minds) and image building with regards to economic interests.

If you want to influence high-level change, it is best to address both professionals and politicians. For this last group: go for their ambition. Professionals would like to build on their expertise and can be risk-avoiding. In times of crisis the room for experiments is less, so try to solve concrete problems.

Jo van Hoef, Chief of the Helmond Fire Brigade, also gave his view on being involved in the Helmond pilots. For the fire brigade this has been a very positive experience. It is clear that stakeholder involvement is crucial for the success of a pilot or FOT.

3 Exploitation plans

In this session Kevin Borrás (H3B Media Ltd) moderated presentations and discussions on the exploitation of FOT results. Stakeholders from different European projects gave their input. They answered the following questions:

- What will be done to ensure deployment?
- What kind of needs does the project respond to?
- What is the expected project result?
- Who are the final or potential users or beneficiaries of the project's outcomes?
- Exploitation activities and means used

Details about their exploitation plans and activities can be found in their presentations.

3.1 Stakeholder from euroFOT

Aria Etemad (Ford Research & Advanced Engineering Europe) presented the euroFOT exploitation plans. There are three ways the results are used. (1) By the marketing departments of the partners, (2) via EUCAR, CLEPA, and EARPA, and (3) by government authorities (e.g. law enforcement, ICTS-2). The project contributes to better understanding of driver workload, user acceptance, and usability of ADAS. It improves public awareness on driver support. Finally the project contributes to a harmonized approach of FOT methods.

The final or potential users or beneficiaries of the project's outcomes are:

- Automotive industry in Europe
- Decision makers in public sector e.g.:
 - Road authorities
 - Legislation
 - Law enforcement
- Road users
- New vehicle customers
- User interest groups e.g. ADAC

3.2 Stakeholder from TeleFOT

Stephane Dreher (NAVTEQ) presented the TeleFOT project. TeleFOT is aimed at assessing, via Field Operation Tests, the impacts of aftermarket and nomadic devices in vehicles for driver support and raise wide awareness of their functions and potential.

FOTs can support data-based traffic-related public policies and services and nomadic improvements. Safety impact in nomadic devices (e.g. distraction) is the highest priority that TeleFOT could allow to understand. Relevance is also addressed in understanding how Nomadic Devices support reduction of traffic congestion. Results of the project can promote standardization in Nomadic Devices (e.g. safer positioning into vehicles). Some inputs for future: deeper interoperability, real time information and dynamic maps with enhanced and reliable features.

3.3 Stakeholder from DRIVEC2X

Francois Fischer (ERTICO – ITS Europe) presented the DRIVEC2X project, focussing on standards and interoperability. DRIVE-C2X paves the road from standards to deployment, providing “generic” implementations of standards, and it specifies and implements additional required components, which are not part of the standards. In order to ensure deployment it is necessary to use and promote conformance and interoperability testing.

The expected results are:

- Prove the applicability of ITS cooperative standards
 - Showing a straightforward way to implement cooperative driving solutions in vehicles and road side infrastructure
 - Demonstrating the interoperability in the V2V and I2V perspectives
- Easily carry on FOT operations
 - Proving the possibility of a seamless introduction of cooperative driving functions I vehicles and infrastructure, in particular during the naturalistic tests
- Positive evaluation of cooperative driving benefits

3.4 Stakeholder from FOTsis

Emilio Cacheiro (OHL Concesiones) presented the FOTsis project. FOTsis is focused on infrastructure and road operation: complementary to existing FOTs which are mainly focused on vehicles. The infrastructure needs to be adapted to cooperative services requirements. Road infrastructure management systems need to be tested (FOT) and integrated into the common European Communication Architecture for service provision.

Infrastructure operators would benefit from cooperative services, providing a safer, more intelligent and more sustainable road operation. FOTsis develops business models to address Cooperative Services deployment.

4 ITS Innovations incubators

Maxime Flament (ERTICO – ITS Europe) moderated the final session on ITS Innovations incubators.

4.1 Helmond Test Bed

Joelle van den Broek (TNO) presented the Dutch Integrated Testsite Cooperative Mobility. DITCM is a collaboration on cooperative mobility, aiming to accelerate new mobility concepts and solve mobility problems. For excellent and efficient development, collaboration is needed, shared facilities and a shared roadmap. DITCM has three programme lines:

- The human factors in using cooperative systems
- Development Environment for cooperative systems
- Effect Studies

4.2 Defining a large scale action

Stefanos Gouvas (European Commission) presented the European plans for large scale actions to deploy transport-ICT in Europe. With the recognition that the public sector can play an important role in driving research and innovation and opening up new markets for innovative products and services, and to speed up the achievement of specific societal goals, the EC is considering how to support a set of focused projects of significant scale and duration that cut across the innovation cycle to develop modern pan-European service infrastructures. These initiatives, tentatively called **European Large Scale bridging Actions (ELSAs)** will mobilise a critical mass of resources, including grants for R&D, pre-commercial procurement and support for innovation and deployment.

European Innovation Partnerships should be launched to accelerate research, development and market deployment of innovations to tackle major societal challenges, pool expertise and resources and boost the competitiveness of EU industry, starting with the area of healthy ageing. By 2020, and taking 2010 as a baseline, the aim is to support a number of pioneering European cities (with a total population of at least 20 million) in reducing their carbon emissions by more than 20%, increasing the share of renewable energy in the energy used for electricity supply, heating and cooling by 20%, and increasing end-use energy efficiency by 20%. The Partnership will demonstrate the feasibility of rapid progress towards the EU's energy and climate objectives at local level ... including more efficient urban transport.

Large-Scale Test Bed is considered to be essential for the take-up of innovative new ICT technologies in transport, and they build the bridge between research and full-scale deployment. For the Test Bed, we need to identify networks of appropriate test areas among and within the candidate cities and/or transport corridors, fulfilling the criteria on the side of economic activities (e.g. manufacturing, service, recreational, industrial districts/sectors), co-modal connectivity (e.g. linking motorways/railways/waterways with city transport networks), urban mobility attributes, infrastructure characteristics and development capabilities. Test areas with cross border corridors and country-through traffic are preferred.

4.3 SATIE, Support Action for Transport – ICT European large scale action

Wil Botman (ANWB) presented SATIE, the Support Action for Transport – ICT European large scale action.

ELSA (European Large Scale Action) was mentioned in EC Communication 'Raising the game' (2009) as a possible instrument to cut through the innovation cycle, to speed up implementation of new ITS applications, focussing on the demand side in the lead, instead of supply side. It is oriented towards societal goals, not products, and has broad areas of application (safety, environment, efficiency, services), solutions (infrastructure, vehicles, cooperative, internet), and geography (European test-beds).

SATIE will develop the ELSA Handbook, address the assesment of the effects of ELSA and organise several high-level meetings. Their main outcome will be a successful launch of an ELSA (e.g. as an European Innovation Partnership) of ICT for sustainable mobility and transport.

5 Wrap-up

Irina Silva (ERTICO – ITS Europe) wrapped up the workshop.

The European Commission has the following expectations:

- Understand how to exploit the data that was collected in FOT
- Understand how we can share data namely with US and Japan
- Need for methodology on the exchange of data? Clarify open issues (IPR, accessibility...)
- Develop a data coordination plan

The EC is willing to support if research needs arise. The FOT-Net Data Sharing Working Group can play an important role in this.

Lessons learned from this workshop are:

- Make decision makers enthusiastic about your idea
- Work on image building
- Use showcases
- Politicians: go for their ambition to get them on board!
- Use of public authorities as medium to pass message (local champion)

- Don't leave the dissemination and exploitation to the end of the project: generate a build-up

There are several ways to disseminate and exploit results:

- Use of classical means of exploitation (web, presentations, events...)
- Marketing & use of mainstream media
- C2X FOTs bring new challenges to exploitation:
 - use of prototypes, not commercially available
 - need to remove fears from the public (control, enforcement...)
- Standardisation + Interoperability
- Showcases, local events (GCDC, Plug Tests, ...)

The following conclusions concerning the ITS Innovation Incubators were drawn. DITCM may be a reference for other European Test Sites. Defining large scale actions will lead to large projects cutting across the innovation cycles, and the EC has several initiatives in place to stimulate innovation. ELSAs will bring a need for demand driven objectives, and test beds targeted to well-defined technological areas.