

TeleFOT

Use and Impacts of Aftermarket & Nomadic Devices in Vehicles

Large Scale Collaborative Project (former IP)
EU 7 FP, DG INFSO - ICT 2nd Call

Petri Mononen 28.5.2008

Project in a Nutshell

- TeleFOT - Field Operational Tests of Aftermarket and Nomadic Devices in Vehicles. Runs from June 2008 to May 2012. (FP7-ICT-2007-2)
- Assesses the impacts of functions provided by aftermarket and nomadic devices in vehicles with large scale field operational tests and raises wide awareness of their traffic safety potential.
- VTT as coordinator, the 25 partners include Navteq, ADAC, Elektrobit, Magneti-Marelli and Logica CMG + several research institutes



Consortium

1 (coordinator)	Technical Research Centre of Finland	FI
2	ADAC, Allgemeiner Deutscher Automobil Club	DE
3	Blom	ES
4	BroadBit	HU
5	Centro Ricerche FIAT	IT
6	CERTH	GR
7	Chalmers	SE
8	CIDAUT	ES
9	Destia	FI
10	Elektrobit Corporation	FI
11	Emtele	FI
12	Electronic Trafic S.A.	ES
13	Institute for Communication and Computer Systems	GR
14	RWTH Aachen, Institut für Kraftwahrwesen (IKA)	DE
15	Logica Suomi Oy	FI
16	Loughborough University	GB
17	Magneti Marelli	IT
18	Metasystem	IT
19	MIRA Ltd	GB
20	Navteq	NL
21	Vodafone?	
22	Rücker Lypsa	ES
23	Swedish Road Administration	SE
24	Telefonica	ES
25	University of Modena and Reggio Emilia	IT

General Objectives

- **Assess usability, safety, efficiency and environmental impacts of aftermarket and nomadic devices' functions and services in vehicles.**
- **Raise wide awareness of the potential these devices offer.**
- **Accelerate the take up of ICT systems for driver support.**

Scientific and technological objectives

1) Build and mobilise a European wide user community for testing and assessment of innovative location-based and personalised traffic safety functions for aftermarket and nomadic devices

2) Set up and manage a testing process of selected driver assistance functions and services

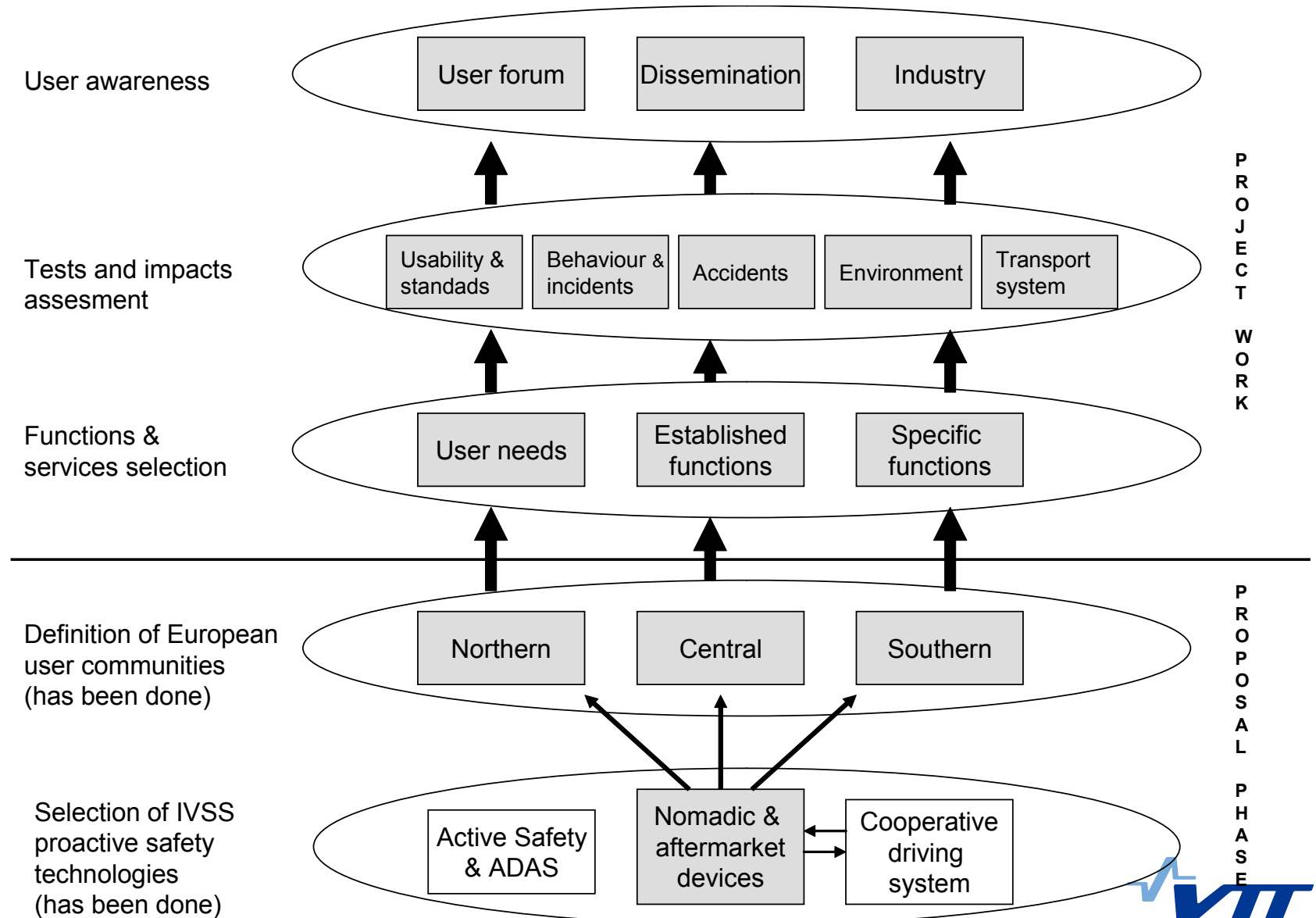
- Investigate after-market devices such as smart phones, navigators and PDA's in vehicles to provide safety-relevant and other sustainable driving related traffic information (no connection to vehicle systems)
- Investigate after-market devices connected to vehicle systems providing also assistance through driver assistance applications.
- Compare these two approaches

- 3) Study (i) usability, user acceptance, behaviour & safety (ii) efficiency and (iii) socio-economic impacts of AM&N devices providing assistance functions to private and professional drivers while travelling**
- 4) Investigate the impacts of AM&N devices in (iv) promoting the “Green driving” concept**
- 5) Investigate the information contents and future applications for cooperative driving support by using AM&N devices**
- 6) Develop and realise effective procedures of enhancing awareness and take-up of driver support ICT systems among the public**

How to carry out the tests

- **Benchmarking of devices in lab conditions**
- **Recruited drivers using their own vehicles and own devices**
- **Recruited drivers using their own vehicles and test devices**
- **Experimental vehicles: drivers perform tests in controlled conditions having the devices in vehicles either (i) not connected or (ii) connected to vehicle systems**
- **Technology observatory for future functions & services**

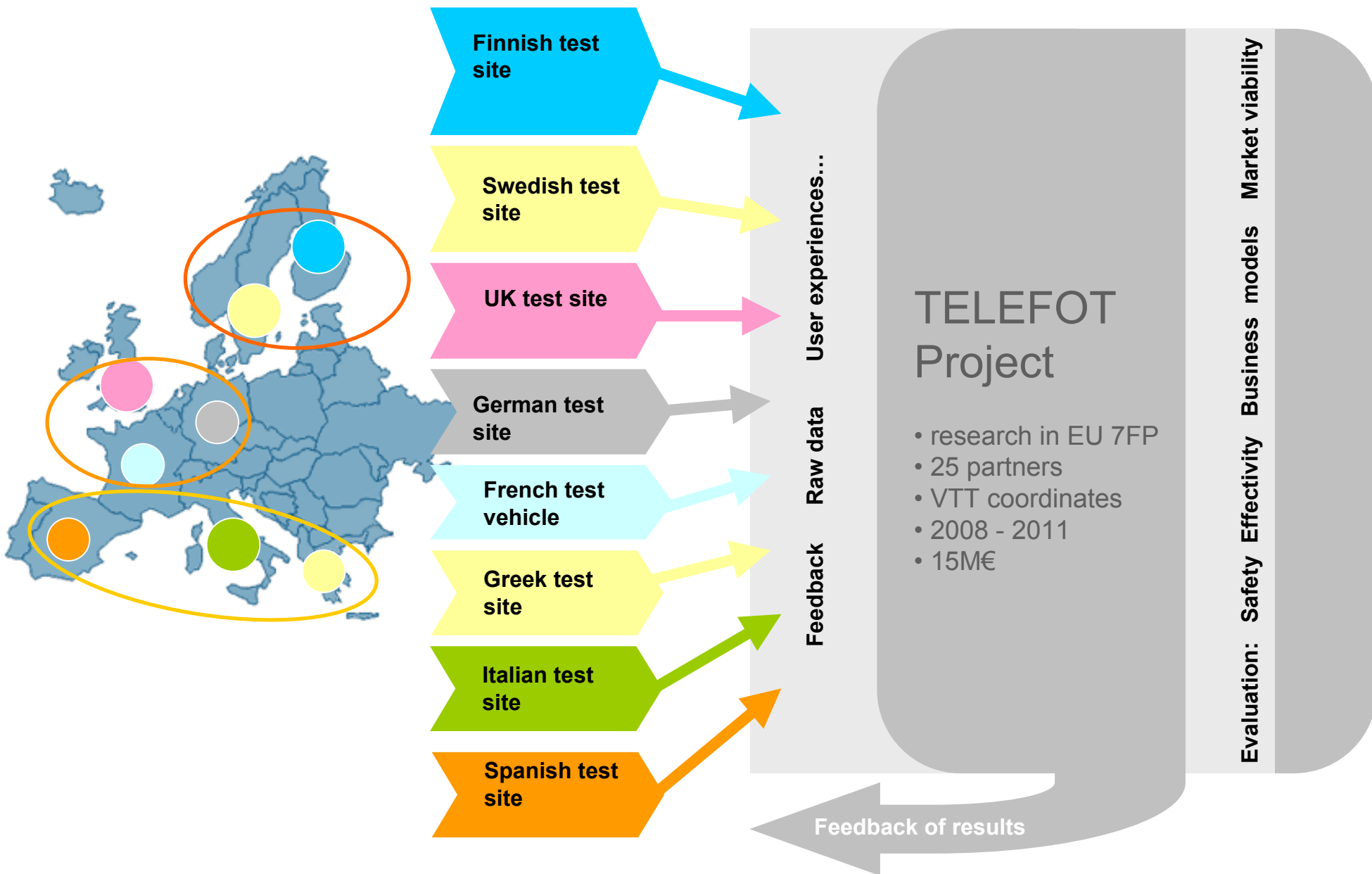
TELEFOT Concept and process



Possible driver assistance functions/services to be studied (tbd later)

- 1) Information on traffic jams, disruptions, road works.
- 2) Speed limit information, driver warning and feedback (partly available)
- 3) Road weather information (mobile, upcoming)
- 4) Personalised navigation services
- 5) Personalised information and default routes.
- 6) Floating Car Data (FCD).
- 7) Rail road level crossing warnings on the approaching train
- 8) Driver's log.
- 9) Advertising on the services along the road
- 10) Nearest Point of Interest (POI), e.g. parking lot
- 11) eCall
- 12) Other functions, e.g. patrol and emergency services, Pay-As-You-Drive
- 13) Nomadic device integration to vehicle systems: e.g. music streaming, phonebook access, information from vehicle bus to navigation system.

TeleFOT & National Test Sites (Three communities: North, Central, South)



Parallel (or Otherwise Relevant) Activities

- FESTA
- EUROFOT
- FOTNET
- General development (e.g. ESoP, etc)
- Build-up of National Test Sites

Contact information

Coordinator:

Petri Mononen, tel. +358 40 515 5808

petri.mononen@vtt.fi

Financial issues:

Ulla Peltonen

ulla.peltonen@vtt.fi

Scientific issues:

Tapani Mäkinen, tel. +358 40 511 6187

tapani.makinen@vtt.fi

EU Commission (PO):

Juhani Jääskeläinen

juhani.jaaskelainen@ec.europa.eu