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POSMETRANS

POlicy measures for innovation in TRANSport sector with special focus on Small- and Medium sized Enterprises - factors and recommendations for success and sustainability -

Deliverable 3.2

Panel meeting to validate the outcomes/analysis by experts (Minutes) How innovation spreads into the market?

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Dissemi	nation Level	
PU	Public	Х
PP	Restricted to other programme participants (including the	
	Commission Services)	
RE	Restricted to a group specified by the consortium (including the	
	Commission Services)	
CO	Confidential, only for members of the consortium (including the	
	Commission Services)	

Project co-funded by the European Commission within the Seventh Framework Programme (2007-2013)



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List of attendees

POSMETRANS partners	Experts
SEZ	Michael Schygulla - ptv AG Karlsruhe (Germany)
Robert Gohla	Eric Gross - Pôle Véhicule du Futur (France)
Aude Pélisson-Schecker	
ACCIONA	Pablo Martinez Alonso, TECNALIA (Spain)
Juan Sáenz-Arostegui	
CUT	Piotr Stasiak - Automotive Industry Institute (Poland)
Andrzej Szarata	Tomasz Zwolinski - Municipality of Krakow – Department of
Bogna Grochola	Urban Infrastructure (Poland)
Katarzyna Nosal	
EGE	Faysal Yalinkilic - Omsan Logistics A.S. (Turkey)
Prof. Cengiz Akdeniz	Jan Devrim - Alisan Logistics (Turkey)
Mustafa Cakir	
Aykut Gülalanlar	
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Martha Serrano	



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POSMETRAN	N S	
ist of participants -	Expert Panel 1	
Person	Organization Signatu	187
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Faysal Yalinkilic	Omsan Logistics A.S.	21
Jan Devrim	Alisan Logistics	A
Massimo Groff	Finpiemonte Partecipazioni	A D
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Pablo Martinez Alonso	TECNALIA	
Piotr Stasiak	Automotive Industry Institute	\supset
Renata Koneczna	Polish Academy of Sciences	
Tomasz Zwolinski	Municipality of Krakow - Department of Urban Infrastructure	el



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Introduction

Background information about the project

POSMETRANS is a Coordination and Support Action funded by the European Commission within the scope of the Seventh Framework Programme (FP7). It aims at promoting sustainable surface transport by providing policy support for innovative technologies and processes in transport. On the basis of an international network consisting of five partners from five different countries, POSMETRANS will explore the efficiency of European policy measures for innovation in the transport sector with special focus on Small- and Medium-sized Enterprises (SMEs).

POSMETRANS partners:

- Steinbeis-Europa-Zentrum (Germany)
- ACCIONA (Spain)
- Cracow University of Technology Technology Transfer Centre (Poland)
- EGE University (Turkey)
- Unioncamere Piemonte (Italy)

1. POSMETRANS Expert Panel Meeting – Background Context

1.1. Objectives

The POSMETRANS Expert Panel Meeting I about the topic "how innovation can spread into the market?" is enshrined within the framework of the activities foreseen in WP 3. The main aim of organising the POSMETRANS Expert Panel Meetings is to present before a competent panel of experts the results from the survey emerging of the implementation of four different questionnaires by the POSMETRANS partners in order to critically analyse and complement them.

The main objectives of the Expert Panel Meeting are identified as follows:

- 1. Validation of the findings presented;
- 2. Foster dissemination of POSMETRANS and its results.



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1.2. Experts invited

This Expert Panel Meeting was composed by independent experts coming from six different European countries. In order to have a balanced composition of experts, POSMETRANS partners coordinated their efforts in order to invite experts covering different – and complementary – fields of expertise. The experts of the Panel Meeting can be grouped in four main categories, namely:

- Researcher /Academics
- Industry
- Networks
- Public Bodies

1.3. Methodology followed

In order to give the experts a general overview about the project and the results of the questionnaires implemented, they were provided in advance with a drafted SWOT analysis summarising the main findings from the questionnaires' implementation.

The methodology used for the Data Collection was:

a.) Collecting innovative technologies

The data collection was defined in different steps:

- Definition of keywords for search engines
- Web-browsing
- Review of EU and national action plans, papers surveys
- Review of EU and national R&D projects and programmes
- Taking part in workshops, congress, symposia etc.

b.) Completing the list of innovative technologies

In the project, six thematic technology fields in total have been defined. They are categorized in the following topics:

- Vehicle Technologies: Greening, New Materials, ICT
- Infrastructure Technologies: Co-Modality, Safety and security, ICT



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The next step was to identify of the application fields. In this context it was differentiated in the topic of transport mode and transport type:

- Transport Mode: Road, Rail, Water
- Transport Type: Passenger, Freight and Logistics

c.) Analysis of innovative technologies

The key aspects in this point are shown as follow:

- Identification of the related policies
- Definition of the criteria for analysis
- Assessment of technologies against the criteria defined
- Rankings and selection of technologies for analysis
- Identify best practices
- Analysis of paths of how innovation spreads into the market

d.) Questionnaires

Concerning the questionnaires, following tasks have been done:

- Design of questionnaires
- Surveys among key players
- Data recompilation and analysis
- Conclusions of innovation performances

e.) Expert Panel

The main task of the expert panel is to discuss and validate the preliminary conclusions of the analysis. The results of the discussion and validation process are the basis for elaborating final recommendations about identification of best practice for market adoption.



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The results were presented on slides (cf. D3.1) with graphs and tables in order to make them more understandable. The Expert Panel Meeting I was conducted in six chapters:

- 1. General presentation of POSMETRANS
- 2. Description of technologies analyzed
- 3. Description of criteria for assessment
- 4. Main conclusions of the analysis
- 5. Main conclusions of analysis of questionnaires to stakeholders
- 6. Discussion with experts

2. Summary of Expert Panel Meeting discussions

Short introduction by Robert Gohla (SEZ)

- Presentation of POSMETRANS project (Robert Gohla)

- ✓ POSMETRANS objectives
- ✓ POSMETRANS Work Packages
 - WP 1 → Definition of methodology, identification of technologies and policy measures
 - WP 2 → Identification of key players in innovation
 - WP 3 → Analysis of how innovation spreads into the market
 - WP 4 → Analysis of how innovation could be stimulated in networks
 - WP 5 → Analysis of the impact of policy measures
 - WP 6 → Conceptual framework for policy measures
 - WP 7 → Promotion and Dissemination
 - WP 8 → Management

- Objectives of the Expert Panel Meeting

The main objectives and expectations of the Expert Panel Meeting were explained to all participants.

2.1. Short introduction of participants

In this section all participants briefly introduced themselves. All participants mentioned their field of expertise as well as the organisation they were representing.



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2.2. Presentation of the findings of the analysis and the survey

In this section Juan Sáenz-Arostegui presented the findings of the POSMETRANS analysis and survey. The topics of the analysis provided a background for the following discussion (cf. Slides in the appendix)

2.3. Contributions of the participants

Different questions have been discussed. Questions and personal comments of the participants are shown as follow:

1. Are the criterion studied enough for innovation analysis? Should they be weighted with importance?

- Specific weights are different in different nodes (ship technology \neq railway technology \neq road technology). We tried to find common weights for all transport nodes. Why was aeronautics not considered? \rightarrow Due to higher quality (see Q. 2)

- The criterion "Price" is missing. The price is directly related to the involvement of companies and to the innovation (e.g. tyres).

2. Should projects aimed at technology transfer and the identification of best practices be (better) promoted?

- Good example from Krakow \rightarrow CIVITAS programme / smooth technology transfer (public transport available by phone). Such programmes give SMEs the possibility to work first with a small consortium to implement the product / technology in another country \rightarrow smaller projects focussed on SMEs are better \rightarrow EUROSTARS programme.

- It would be good to know, which technologies can be transferred.

- Yes – the more the better: Dissemination. Very important to communicate the project results and organise a workshop \rightarrow enable also stakeholders to meet on a common subject.

- The main motivations for innovation are the customers. A good project is also the one that has to be conducted without funding \rightarrow should be taken as criteria for EU.



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3. What are the main barriers for SMEs to innovate in transport sector?

- Nowadays, many SMEs have an innovation strategy and structure; they do not know why they should more innovate. Furthermore, their access to information is problematic, as they have limited collaborations with research institutes and public bodies. They also don't have any access to external financial resources, due to the fact that they don't have any money for trainings of the employees. They are limited in achieving financial resources, as they only get limited information about available funding programmes.

About the survey: the numbers of the interviewed stakeholders should be larger. For the most part, the weighting is not good. The innovation culture in the companies is essential.

- The access to venture capital is not available. Often the innovation is funded but not the implementation (the costs are 5 times as high as the initial development), as there is a lack of co-financing. Decisions are made by the board of management, which are not the individuals who should make decisions concerning innovation, as the priorities are different (e.g. business plan). There should be an innovation manager or trend scouts. Innovation is often not the focal point. EU funding is not targeted at SMEs, but at large companies. The achieved surveys are too little, should represent at least 10% of the whole SMEs in EU in order to achieve a representative sample.

 \rightarrow *Critique*: we cannot interview 10% of all SMEs in Europe. The goal of the project is to identify cases of best practices.

- *Critique*: best practices cases have not been explicitly named yet. The number of the surveys should be increased. Not only good practices, but also bad practices should be identified, the numbers may mislead.

- The financial aspect is missing.

- The human aspect should not be forgotten \rightarrow Trainings! Human aspect should also be considered concerning the adaption of new technologies.

- Risk management should be a priority. Risks lay in the future, when the technology is implemented, but it still needs to be financed on the long term as well.



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- More surveys are necessary, at least more than 50! Large Companies should also be questioned (25% of the revenues included in this section of the survey go especially to logistics). Customers should specifically be integrated, as they determine the conditions. There is also a problem with the resources, not only in the development, but also in the implementation.

- Culture of employees \rightarrow training in innovative solution is missing when it comes to ICT
- Price of development of the innovative concept/product
- The access to / for funds is limited \rightarrow if necessary, best practices must be asked again.

- The average number of employees in SMEs in France: 50. The size of the company is relevant regarding the opportunity for collaboration.

e.g. Small companies with 5 employees who have 3 clients \neq medium-sized companies with 50 employees \neq large companies with 250 employees who have 3000 clients \rightarrow large companies have more opportunities to promote collaboration and build new cooperation. Their gain of research project \rightarrow reinforce link with existing clients and acquire other clients. Subject should be sharpened, precise and with immediate application i.e. no broad subjects.

- SMEs are often the last link in the value chain. The speed of development often overstrains SMEs.

4. In your opinion, are research strategies / agendas in compliance with the needs / demands of users?

- Strategies don't define the needs of users (frame level).

- Very important to speak to customers / end users e.g. from municipality in Krakow about the transport for people with reduced mobility (for e.g. elderly people) \rightarrow e.g. problem with ticketing machine.

- Strategy and agenda are no that detailed and it is the job of the projects to define the need afterwards (demand / analysis missing; user-needs analysis missing).

5. Should policy measures aim at minimising the risk of innovative technologies?

- No, the decision should lie by the SMEs / industry, these are the specialists. It is not the aim of policies; it is the job of specialists.



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6. Should external costs be considered in the transport prices in order to promote co-modality?

- Yes, the condition of the market will change and this will definitely be an issue.

7. How Europe should face decarburisation of transport to lead this change?

- The development of biofuels could be one solution. Another is a technological revolution in engine construction \rightarrow nowadays there is only a 40% efficiency which must be improved. For SMEs, the problem is how to use the energy environment-friendly. In Poland, there are no profits for environmentally-friendly work \rightarrow encouragement and motivation for innovation is not given.

8. What do you consider as key factors to be the best innovative organisation in the transport sector?

- Services are very important and should be significantly considered.

- Life cycle analysis and life cycle costs are important (nowadays only part of life cycle is taken into account)

- It is important not to think only in terms of the product, but also in terms of services e.g. service of taking freight from point A to point $B \rightarrow$ before: only rolling stock, now: rolling stock + ticketing + management system solution i.e. full service.

- There are enough funding programmes, the problem is the measurement of risks \rightarrow a market analysis should normally be done. Risk analysis is crucial \rightarrow products & services are important.

9. Please identify cases of best practices for Public-Private-Partnerships (in particular how to improve research / industry partnerships in order to encourage applied research and its implementation in industry)?

- The problem is the long-term sustainability (e.g. E10 fuels: engines are not ready to use the fuels.

- Another problem is the end of life management e.g. recycling of batteries \rightarrow not addressed enough \rightarrow think global (i.e. do not only sell cars, but sell transportation!)

- Big companies should play a decisive role in this issue, because if there is any insurance that the technology will be adopted, the investment for SMEs would not be worst.



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3. Conclusions

3.1. Summary of experts observation

- The sample size of survey is too small to evaluate the market potential of innovation, but the cases of best/worst practices gave a good idea of what should be improved regarding the cooperation possibilities between the different stakeholders in order to promote innovation.
- Good analysis although it is not easy to evaluate the innovation potential in this sector.
- SMEs often don't trust themselves to invest in innovation because they cannot afford the risks if the new technology will not be implemented or not successful.

3.2. Recommendations

- ✓ A similar survey and analysis would be very interesting and instructive in the sector of aeronautics.
- The information about funding programmes should be better disseminated in order to motivate SMEs to invest more in innovation; therefore, the access to those programmes should be easier for SMEs.
- ✓ SMEs should promote new collaboration with large companies
- ✓ Regarding R&D projects, the project partners should more disseminate the results in order to promote innovation and motivate new stakeholders to build new cooperation.
- ✓ A market analysis about risk measurements in the transport sector should be done.

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4. Appendix

Innovation in TR	ANSport	Posme	TRANS
Greening Technologies Greening technologies are those oriented to dep the efficiency of the vehicles, making them to co using renewable energy sources.	loy the emission of greenhous onsume less fuel or switching	e gases and VOC, by means o to cleaner fuels or in an opti	of increasing mum scenario
A			
Alle	Subgroups	Technologies	
ASKA.	ELECTRIC-CAR RELATED TECHS	Electric locomotive E6ACT	
SBAR		hybrid-electric power vehicels	
S NAB		Parallel hybrid system	
		Natural gas (CNC (LNC (CTL)	
	ALTERNATIVE FOELS	Hudrogon	
		Biofucia	
	RENEWARI E ENERGY SOURCES	Solar-drive vehicles	
	RENEWABLE ENERGY SOURCES	Air Power	
cip		(j	

	Subgroups	Technologies
New materials refers to apply innovative materials	FRAMES AND BODY PART	Lightweight materials
to venicles to make them more efficient in terms		Lightweight & high feature materials
beir lifecycle decrease maintenance, enlarge		Hard/tough materials
costs and integrate the recycling process as a		High gravity compound (HGC)
relevant part of the lifecycle of the product.	PAINTS AND COATINGS	Anti-corrosive coatings
		High features coatings for tanks
All those aspects lead to improve the performance		Tributyltin-free anti-fouling coatings
of the vehicle itself and make its construction.		Self-cleaning & anti-adhesive surfaces
operation and scrapping cost-effective and		Super hydrophobic coating
environmentally friendly.		Low-water friction coatings
	BRAKING STSTEMS	Ceramic brake
	LUDDICANTE O MEAD DESISTANT	Eddy current brake
の意識語	LUBRICANTS & WEAK RESISTANT	Additives for low friction and viscosity
		Organic lubricants
		High features resistant materials
	TYRES	High features rubbers
調整調整 イントレート・アウト	EXHAUST AND CATALYTIC SYS	Highly active material for exhaust gas catalysis
		Electro catalyst for cathode of fuel cell
	ELECTRIC AND ELECTRONIC EQ.	Materials for MEMS and other components
		Materials for lighting systems
		Lead-free solders
A A A A A A A A A A A A A A A A A A A	FIRE RETARDANT TEXTILES	Fire-proof flame retardant textiles



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Innovation in	TRANSport	POSMETRANS
ICT (vehicles) The main driver in ICTs implantation in very vehicle and the human in the control loop usage and the environmental point of view	hicles, is to complement th , making the driving easier, v.	e human deficiencies and integrate perfectly the safer and more efficient regarding the energy
	Subgroups DRIVER-ASSISTANCE SYSTEMS	Technologies Inter-Vehicle communications Anti Lock Breaking System (ABS) GPS devices Adaptive Cruise Control (ACC) Adaptive Hadlights Lane Change Assistant / Blind Spot Detection Driver Drowsiness Monitoring and Warning Electronic Stability Control (ESC) Gear Shift Indicator Lane Departure Warning Night Vision Obstacle and Collision Warning Pedestrian / Vulnerable Road User Protection Tyre Pressure Monitoring System Lateral support System AWAKE System
cip	erprise opc vork	Ultra wide band (UWB) automotive radar (SRR)





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Innovation in 1	FRANS port	POSMETRANS
Safety and Security	Subgroups	Technologies
	ACCESS CONTROL	Static and dinamic biometrics techniques
Pegarding safety and security in		Contactless smart cards
transport, its of key importance the		Near Field Communications techniques (NFC)
integration of ICTs on transport		Recognition video system
interfaces to fight against the threatens		Automatic Number Plate Recognition (ANPR)
and security of humans involved in	INSPECTION SYSTEMS	Cargo scanning Non Intrusive Inspection (NII)
ransport operations, by means of		Body scanner systems for passengers
nonitoring, tracking and registering		Smart container based on ISO/PAS 17712
electronically all operation with the lower	COMPUTER SECURITY SYSTEMS	Digital identity management systems
bossible disturbance to the transport		Digital signature
	TRACEABILITY	Wireless comunication applications
		Monitoring systems based on sensor network
-		Real Time Locating Systems (RTLS)
		GPS aplications
		Lenguage systems for comunications
- IRE RED		Vessel traffic monitoring and information system
LIGHT		Software platforms for traceability of supply chain
ENFORCED		Digital tachograph and driver cards
	SAFETY SYSTEMS	Cover techniques for railway axles
		Sensor systems to prevent train's derailments
		Traffic security cameras
CA STOR		V2i communications and cooperative systems
		Intelligent systems to protect vulnerable persons
		Fire prevention systems in tunnels
		Docking and undocking manoeuvres assitant systems
2 enterprise	ise	acciona





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Innovation in TRANS port	
"Transferability" Analysis	
GREENING TECHNOLOGIES4,11ICT (VEHICLES)3,89SAFETY & SECURITY3,88NEW MATERIALS3,87CO-MODALITY3,23ICT (INFRASTRUCTURES)3,00	
 Greening Technologies is the field best positioned against transferability. Greening innovative technologies can be transferred to a most number of users among different fields and countries. E.g. Alternative fuels, hybrid or electric propulsion could be apply to a different transport modes and types for compliance with environmental sustainability. ICT for infrastructures are worst ranked, mainly due to the fact that the listed technologies were developed for specific applications. Nevertheless other ICT solutions for infrastructures considered address a wider range and are 	
even suitable for multi-sectorial applications (e.g. RFID and GALILEO applications).	
 Support development of horizontal or multi-sectorial technologies (e.g. ICTs, NMP,) within transport sector could be helpful to increase transport innovations, for example including more transport-related topics in calls of work programs in FP7, e.g. ICT work program, or NMP work program. Also including topics related to those technologies. 	
 Promote new programs or projects addressed to best practices identification and technology transfer between different sectors or transport modes. E.g. Between maritime transport and air transport regarding traffic management systems, booking systems, queue management systems. 	
CIP	



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Innovation in TRANS por	POSMETRANS
Sources of information	
INFORMATION CONCERNING INNOVATION	INFORMATION CONCERNING INNOVATION
Vicit of trade fuir Fadutionship with universities Fadutionship with universities Manhaership in actronh/dayler Manhaership in actronh/dayler	onship with universities and research enters
 High-Tech entities are usually focused in getting involved will conferences and symposiums. Their aim is to keep in contact 	ith innovation networks or clusters, as well as in :t with other entities in the market.
 Medium-Tech entities don't have a special source of informa universities or trade fairs than high-tech entities. 	ation but usually have more relationship with
 Public bodies are associated with all the different sources of regularly in conferences and innovation meetings. 	f information, but their main activity is participating
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Innovation in TRANS	port POSMETRANS
Training of personnel	
TRAINING OF PERSONNEL	TRAINING OF PERSONNEL
Attendance in training courses High-Tech Medium-Tech Visit of conferences	Organising information meetings for upcoming calls for proposal
 The main activity performed by companies and other e conferences instead of promoting research in trade jou innovation is establishing relationships with other reserve recommendations. Public bodies contribute to this training procedures by interested companies and coordinating information metals. 	ntities is attending to training courses and visits to Irnals. One of the main sources of information related with arch entities, exchanging information and getting expert's organising technical courses, establishing contact points for etimes for uncoming calls
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