ASSIST - Assessing the social and economic impacts of past and future sustainable transport policy in Europe

Workpackage 2: Transport Policy Measure Impact Assessment

FACT SHEET NO.: 3/7

PERFORMED BY: FÖMTERV

	SHEET NO.: 377	PERFORMED B1. FOMITERV
	GENERAL INFORMATION	
1	Category	Infrastructure
2	Subcategory	Intelligen Transport Systems
3	Transport policy measure (TPM)	Promotion of intermodality via provision of dedicated information and guidance to hubs
. 4	Description of TPM	The policy measure aims to improve traffic management and the interconnection of transport modes, in order to optimise the use of the existing infrastructure and to better balance traffic demand over the networks. Dynamic information and personalised routing support will result in enhanced interaction between individual and collective transport modes, including public transport for passengers, while connections to rail and inland waterways for freight and city logistics are optimised. Road users will benefit from predictable journey times, less congestion and smoother traffic conditions. Dedicated measures include: support for wider deployment of (roadside-based) ITS infrastructure for information services, provision of warnings and dynamic speed harmonisation; the development and roll-out of interoperable road pricing and city access control mechanisms and the promotion of intermodality via provision of dedicated information and guidance to hubs. [1],[2]
5	Implementation examples	WAYflow project, Frankfurt, Rehin-Main Region, Germany and a couple of national or regional ITS services, which has not the same objective or aim, but operates with very similar function (eg. MAESTRO, Hungary)
6	Objectives of TPM	Main objectives are: - Optimisation of use of infrastructure (more efficient use) - Higher proportion for intermodality in freight and passenger transport [1]
7	Key changes concerning:	
7.1	- Choice of transport mode / Multimodality:	Improvement in multimodal transport
7.2	- Origin and/or destination of trip:	No impact
7.3	- Trip frequency:	No impact
7.4	- Choice of route:	Influences route choice through using intrermodal hubs
7.5	- Timing (day, hour):	No impact
7.6	- Occupancy rate / Loading factor:	No impact
7.7	- Energy efficiency / Energy usage:	No impact
8	Main source	[1], [2]

В	IMPACTS																				
B 1	OVERVIEW ON IMPACTS	AFFECTED SEGMENTS Geographical level Source														urce					
		Passengers Transport operators												₹							
		Road	Rail	Air	Public transport	Slow modes	Road	Rail	MMI	Air	Maritime	Public transport	Employees i transport	Residents	Economy	Public bodie	Society	1st level	2nd level	Source of assessment	Spatial level of source
B 1.1	Overall tendency	for rail in tran	ost signit and iww sport sec yment. E	r, calling ctor, ho	g intermo wever m	odality t eans ac	o life. Ed dditional	conomic costs in	c impact n regard	s includ of adm	le mainl inistrati	ly sector ve burde	al comp ens. Soc	etitiven cial impa	ess trar acts are	nsport co	osts and , affects	private i mainly s	ncome afety ar	for emp	
B 1.2	Overall tendency: Income groups	No imp	pact																		
B 1.3	Overall tendency: Age groups	No imp																			
B 1.4	Overall tendency: Disabled people	No imp	oact																		
B 1.5	Overall tendency: Gender groups	No imp																			
B 1.6	Overall tendency: Ethnic groups	No imp	oact																		

B 2	TRAFFIC IMPACTS	AFFECTED SEGMENTS													Geographical level		Source				
			Pa	asseng	ers			Tra	nsport	operat	ors		يا			ဖွ					of
		Road	Rail	Air	Public transport	Slow modes	Road	Rail	MMI	Air	Maritime	Public transport	Employees i transport	Residents	Economy	Public bodies	Society	1st level	2nd level	Source of assessment	Spatial level or source
B 2.1	Travel or transport time	7	→		→		7	→	→									I	N	S	I
B 2.2	Risk of congestion	7	7		7		7	7	7									I	N	S	I
B 2.3	Vehicle mileage	4	7		7		4	7	7									I	N	S	
B 2.4	Service and comfort	71	→		→		71	→	→									I	N	S	I
B 2.I	Overall impacts on social groups																				
B 2.II	Implementation phase																				
B 2.III	Operation phase																				
B 2.IV	Summary / comments concerning the main traffic impacts		l iww, tł	nerefore	strengtl													ective, ar e, but the			
B 2.V	Quantification of impacts																				

В 3	ECONOMIC IMPACTS	AFFECTED SEGMENTS															Geographical level		Sou	urce	
		Passengers						Transport operators								S					_
		Road	Rail	Air	Public transport	Slow modes	Road	Rail	MMI	Air	Maritime	Public transport	Employees in transport	Residents	Economy	Public bodies	Society	1st level	2nd level	Source of assessment	Spatial level of source
B 3.1	Transport costs	→																ı	N	S	I
B 3.2	Private income / commercial turn over												7								
B 3.3	Revenues in the transport sector																				
B 3.4	Sectoral competitiveness	7	7		7		7	7	71										N	S	I
B 3.5	Spatial competitiveness																				
B 3.6	Housing expenditures																				
B 3.7	Insurance costs																				
B 3.8	Health service costs																				
B 3.9	Public authorities & adm. burdens on businesses															7		I	N	S	I
B 3.10	Public income (e.g.: taxes, charges)																				
B 3.11	Third countries and international relations																				
B 3.I	Overall impacts on social groups																				
B 3.II	Implementation phase																				
B 3.III	Operation phase																				
B 3.IV	Summary / comments concerning the main	Promo	ting inte	rnodalit	y helps t	o make	optima	l distribu	ution of	perform	ance be	etween c	different	transpo	ort mode	es, there	efore imp	prove cos	st efficie	ency. All	
	traffic impacts	affecte	d transp	ort mod	des can	benefit [•]	from co-	-, inter-,	and mu	ltimoda	lity. [1,3	5]									
B 3.V	Quantification of impacts																				

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B 4	SOCIAL IMPACTS		AFFECTED SEGMENTS												Geographical level		Sou	ırce			
			Pa	ssenge	ers		Transport operators						in			S					75
		Road	Rail	Air	Public transport	Slow modes	Road	Rail	MMI	Air	Maritime	Public transport	Employees i transport	Residents	Economy	Public bodies	Society	1st level	2nd level	Source of assessment	Spatial level of source
B 4.1	Health (incl. well-being)																				
B 4.2	Safety	7					7							7				ı	N	S	1
B 4.3	Crime, terrorism and security																				
B 4.4	Accessibility of transport systems																				
B 4.5	Social inclusion, equality & opportunities																				
B 4.6	Standards and rights (related to job quality)																				
B 4.7	Employment and labour markets				7			71	71									I	N	S	I
B 4.8	Cultural heritage / culture																				
B 4.I	Overall impacts on social groups																				
B 4.II	Implementation phase																				
B 4.III	Operation phase																				
B 4.IV	Summary / comments concerning the main	Severa	l studies	s, consu	Iltations	and wo	rkshops	proove	that red	uced us	se of pa	ssenger	vehicle	s, beca	use of i	ncrease	attractiv	veness o	f interm	odal trar	nsport,
	traffic impacts		rease a	ccident	s, theref	ore imp	rove sa	fety for _l	passeng	ers, wo	rksers i	n the tra	insport s	sector a	nd resid	lents.					
		[1,2,4]																			
B 4.V	Quantification of impacts																				
5 T. V	Quantimodition impuoto																				

B 5	ENVIRONMENTAL IMPACTS	AFFECTED SEGMENTS														Geographical level		Soi	urce		
		Passengers Transport operators)t				
		Road	Rail	Air	Public transport	Slow modes	Road	Rail	MMI	Air	Maritime	Public transport	Employees i transport	Residents	Economy	Public bodies	Society	1st level	2nd level	Source of assessment	Spatial level of source
B 5.1	Air pollutants													7			7	I	N	S	ı
B 5.2	Noise emissions													7			7	I	N	S	I
B 5.3	Visual quality of the landscape																				
B 5.4	Land use																				
B 5.5	Climate																7	I	N	S	I
B 5.6	Renewable or non-renewable resources																				
B 5.I	Overall impacts on social groups																				
B 5.II	Implementation phase																				
B 5.III	Operation phase																				
B 5.IV	Summary / comments concerning the main traffic impacts				ade and imate ch			of more	energy	efficier	nt mode	s (rail, iv	vw) resu	ults in p	ositive e	environn	nental in	npacts lik	e decre	ease of a	air
B 5.V	Quantification of impacts																				

С	REFERENCES	
C 1	Other TPMs of this subcategory	One common functional open in-vehicle platform Deployment of roadside-based ITS infrastructure for information services (provision of warnings and dynamic speed harmonisation)
C 2	References	International [1] European Commission (2008): Impact Assesment: Action Plan for the Deployment of Intelligent Transport Systems in Europe, EC, 2008, [2] Action Plan for the Deployment of Intelligent Transport Systems in Europe, ILS NRW, 2004 [3] Freight intermodality: Results from the transport research programme, EXTRA project for DG Research, 2001 National Regional / Local [4] Boltze, Manfred: Intermodality and ITS in Frankfurt Rehin-Main, 2004

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