Reboundscreening	ng
passenger transp	ort

date	
completed by	



Innovation

	Indicator	absolute adverse effect on the environment higher due to rebound lower		
Type What is the functional principle of the innovation?		technological Propulsion, sensors, materials,	organisational/social sharing, crowd, billing, logistics, navigation,	
	Depth How far does the innovation go?	radical new approach, may be combined with existing products/processes, may be transferred to	incremental Improvement of existing solutions, substitutes selected products/processes	
ion	Energy carrier	non-transport applications fossil	renewable	
Innovation	Which energy source powers the innovation and related transport?	Petrol, diesel, conventional electricity mix,	Green eletricity, muscular power,	
	Investment costs How expensive is the acquisition of the innovation for the user?	low Retrofit, applied in existing platforms, standard configuation, payment by installments,	high New aquisition, extensive conversion, extra configuration, one-off payment,	
	Infrastructure Which infrastructure coverage is required by the innovation?	high Physical modification of buildings and roads, high maintenance, high energy demand during operation	low Virtual infrastructure, low maintenance, low energy demand during operation	
	Target group size How many people use the innovation?	whole population Broad range across age groups, all traffic participants,	selected sections of the population Technophiles, people with special needs, gender-specific,	
Farget group	Income Do poor or rich people use the innovation?	low Socially disadvantaged, below-average living standard	high Well-off, above-average living standard	
Tal	Environmental values Do users hold pro-environmental values?	Human wellbeing takes precedence over nature, belief in technical fixes for environmental problems	high Preserve nature for future generations, ecological lifestyle	
	Travel mode choice From which travel modes are trips shifted to the innovation?	ecomobility Less trips with bike, public transport, walking	fossil mobility Less trips with convenctional cars	
cts	Person-km undertaken How do number and length of trips change?	increase Reduction in the monetary, time and comfort costs of selected trips	decrease Shifting trips to the virtual domain, combined trips	
Impacts	Needs Which consumer needs and mobility needs are addressed by the innovation?	nonsaturated Hedonistic needs, unfulfilled consumer desires, material gain, gain in social prestige	saturated Needs with a predefined upper limit, basic needs, daily necessities	
	Mobility patterns How adaptable are the activities addressed by the innovation?	flexible Infrequent and exceptional trips, spontaneous activities, holidy trips	rigid Habitual and everyday trips, activities within routine schedules and ranges	

Total



Innovation

Description of innovation-specific rebound effects

direct rebound		indirect & economy-wide rebound	
crease in transport performance	indirect	rebound:	
	I	al consumption or substitution of other sand services	
	econom	y-wide rebound:	
	l l	effects at market entry: Construction of infrastructure, in production processes, new market actors	
	infrastru	Demand-driven effects: Operation and maintenance of infrastructure, redistribution between economic sectors, capacity utilization in road network and public transport	
Inctrumor	nts for avoiding	rohound	
Instrumen	iits for avoluling	rebound	
Avoiding direct rebound	A	voiding indirect and economy-wide rebound	
Inner city tollRoad charge by km traveled	fiscal	Economy-wide carbon taxValue-added tax by environmental impact	
Transport-specific carbon taxFuel taxAnnual vehical tax by km traveled	o		
■ Speed limit	regulatory	■ Standards for carbon content in all consumer good	
■ Transport-specific carbon tax	regulatory	 Carbon budget across all consumer goods 	
•	regulatory		

- Information platforms and campaigns
- Self-monitoring of km traveled
- Obligatory trainings in driving schools
- Obligatory meters for fuel consumption

persuasive



■ Information platforms and campaigns