

**COST Action TU1407 "Safe2Wheelers"
Deliverable no. 2**



Working Group 2: "Rider Behaviour and Training"

File name: D2_WG2_COST_Safe2Wheelers_deliverable

TITLE : "Publication of the most relevant findings about rider behavior investigation and psychological aspects related to rider training"

Task: Please fill in the following table

1. Review the list of projects and...
 - a. ...add projects that you see as relevant for WG 2. Please consider also projects on a national level.
 - b. ...delete projects that do not suit our working group (e.g., purely focus on Accidentology)
2. Add publication references that you consider as "most relevant findings about rider behavior investigation and psychological aspects related to rider training". These publications are either linked to one of the projects or will be listed separately, if they cannot be linked to a specific project.

project	level [EU, national,...]	publication reference	web page link (if available)	keywords	contact person
behavioural studies on road					
2BESAFE	European	Beanland, V., Lenné, M., Fuessl, E., Oberlader, M., Joshi, S., Bellet, T., Banet, A., Röbger, L., Leden, L., Spyropoulou, I., Yannis, G., Roebroek, H., Carvalhais, J., & Underwood, G. (2013). Acceptability of rider assistive systems for powered two-wheelers. <i>Transportation Research Part F</i> , 19, 63-76.	http://www.2besafe.eu ; final reports available	behavioural studies on road / on simulators	Stéphane Espié
2BESAFE	European	Fuessl, E., Oberlader, M., Beanland, V., Pereira, M., Simões, A., Turetschek, Ch., Kaufmann, C., Joshi, S., Röbger, L., Leden, L., Spyropoulou, I., Roebroek, H., Carvalhais, J., & Underwood, G. (2014). Methodological development of a specific tool of assessing acceptability of assistive systems of PTW-riders . <i>IET Intelligent Transport Systems Journal</i> . http://digital-library.theiet.org/content/journals/10.1049/iet-its.2014.0026	http://www.2besafe.eu		Lars Leden
2BESAFE	European	Phan, V., Regan, M., Leden, L., Mattsson, M., Minton, R., Chattington, M., Basacik, D., Pittman, M., Baldanzani, N., Vlahogianni, E., Yannis, G., & Golias, J. (2010). <i>Rider / Driver behaviours and road safety for PTW</i> . EU 2BESAFE Deliverable D1.	http://www.2besafe.eu		Lars Leden
2BESAFE	European	Mattsson, M., & Leden, L. (2015). <i>Cognitive ergonomic models of rider crashes. State of the rider user, the vehicle and traffic environment for scenarios outside urban area</i> . Presented at the 29th ICTCT Workshop in Ashdod, Israel, 29.-30.10.2015.	http://www.ictct.org		Lars Leden
2BESAFE	European	Beanlanda, V. & Lenné, M. G. (2013). <i>An international study of the factors associated with the acceptability of advanced rider assistive systems for powered two-wheelers</i> . Presented at the Australasian Road Safety Research, Policing & Education Conference, Brisbane, Australia, 28.08.-30.08.2013.	https://www.researchgate.net/publication/259528042		Lars Leden
CSC-2RM	French National	Aupetit, S., Espié, S., & Bouaziz, S. (2014). Naturalistic study of riders' behaviour in lane-splitting situations. <i>Cognition Technology and Work 05/2014, 17(2)</i> , 1-13. DOI:10.1007/s10111-014-0293-z	http://docplayer.fr/7973207-Etude-des-comportements-spontanes-de-conduite-des-usagers-de-deux-roues-motorises-dans-le-traffic-urbain-et-peri-urbain-projet-csc-2rm.html	motorCyclists' behaviour, lane splitting	Stéphane Espié
CSC-2RM	French National	Aupetit, S. & Espié, S. (2012). Analyse ergonomique de l'activité de conduite moto lors de la pratique de l'inter-files en région parisienne. <i>Activités, 9 (2)</i> .	http://www.activites.org/sommaires/v2.html	motorCyclists' behaviour, lane splitting	Stéphane Espié
CSC-SCOOT	French National	Baldanzini, N., Huertas-Leyva, P., Savino, G., & Pierini, M. (2016). Rider Behavioral Patterns in Braking Manoeuvres. <i>Transportation Research Procedia</i> , 14, 4374-4383. doi: http://dx.doi.org/10.1016/j.trpro.2016.05.359	motorist-ptw.eu	scooterists' behaviour, lane splitting	Stéphane Espié
MOTORIST	European	Huertas-Leyva, P., Nugent, M., Savino, G., Pierini, M., Baldanzini, N., & Rosalie, S. (2017). <i>Why expert riders are better performing emergency braking? Expert vs. novice identification of braking performance integrating perception and action</i> . Abstract submitted to 2017 Road Safety and Simulation International Conference	motorist-ptw.eu		Giovanni Savino
MOTORIST VIROLO++	European French National	on going	http://www.virolo2plus.u-psud.fr/	study of bend taking practices	Giovanni Savino Stéphane Espié
	Hungarian National	Juhász, J. (2012). Survey of motorcyclists' characteristics. <i>Transport Sciences Review LXII (2)</i> , pp. 12-21.	available in Hungarian only		Janos Juhasz

	Hungarian National	Juhász, J. (2011). Survey of actors' knowledge and behaviour in transport. <i>Transport Safety, 1 (1)</i> pp. 42-47.	available in Hungarian only		Janos Juhasz
	Hungarian National	Juhász, J. (2011). Survey of motorcyclists' characteristics and behaviour. <i>Transport Safety (5-6)</i> , pp. 82-97.	available in Hungarian only		Janos Juhasz
simulator design and/or studies					
SIMACOM	French National		final report available in french (SE)	simulator design, towards training	Stéphane Espié
2BESAFE	European	Cossalter, V., Lot, R., & Rota, S. (2010). Objective and subjective evaluation of an advanced motorcycle riding simulator. <i>European Transport Research Review, 2(4)</i> , 223-233.			
	European	Cossalter, V., Lot, R., Massaro, M., & Sartori, R. (2011). Development and validation of an advanced motorcycle riding simulator. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 225(6)</i> , 705-720.	http://www.saferider.eu.org		Matteo Massaro
TRAIN-ALL	European	Huth, V., Biral, F., Martín, Ó., & Lot, R. (2012). Comparison of two warning concepts of an intelligent Curve Warning system for motorcyclists in a simulator study. <i>Accident Analysis & Prevention, 44(1)</i> , 118-125.	http://www.saferider.eu.org		Matteo Massaro
TRAIN-ALL	European	Biral, F., Bosetti, P., & Lot, R. (2014). Experimental evaluation of a system for assisting motorcyclists to safely ride road bend. <i>European Transport Research Review, 6(4)</i> , 411-423.	http://www.saferider.eu.org		Matteo Massaro
TRAIN-ALL	European	Huth, V., Lot, R., Biral, F., & Rota, S. (2012). Intelligent intersection support for powered two-wheeled riders: a human factors perspective. <i>IET Intelligent Transport Systems, 6(2)</i> , 107-114.	http://www.saferider.eu.org		Matteo Massaro
VIGI2RM	French national	on going		impact of sleep deprivation on PTW riding, study using a PTW simulator	Stéphane Espié
DESMORI	German national	Will, S., Pleß, R., & Guth, S. (2016). <i>Bringing single track vehicle dynamics to motorcycle riding simulators – results of a pilot study</i> . Proceedings of the Bicycle and Motorcycle Dynamics Conference – BMD 2016, Milwaukee, USA, 21.09.-23.09.2016.		simulator design, presence	Sebastian Will
BASt Workload (FE 82.0386/2009/) - Entwicklung eines Verfahrens zur Erfassung der Fahrerbeanspruchung beim Führen eines Motorrads	German national	Will, S., & Schmidt, E. (2015). Powered Two Wheelers' workload assessment with various methods using a motorcycle simulator. <i>IET Intelligent Transport Systems, 9 (7)</i> , 702-709.		motorcycle rider workload assessment	Sebastian Will
BASt Workload (FE 82.0386/2009/) - Entwicklung eines Verfahrens zur Erfassung der Fahrerbeanspruchung beim Führen eines Motorrads	German national	Buld, S., Will, S., Kaussner, A., & Krüger, H.-P. (2014). <i>Entwicklung eines Verfahrens zur Erfassung der Fahrerbeanspruchung beim Motorradfahren</i> . Berichte der Bundesanstalt für Straßenwesen, Reihe Fahrzeugtechnik, Heft F93. Carl Schünemann Verlag: Bremen.		motorcycle rider workload assessment	Sebastian Will
OCULOMOTO	French National	Lobjois, R., Siegler, I., & Mars, F. (2016). Effects of visual roll on steering control and gaze behavior in a motorcycle simulator. <i>Transportation Research Part F Traffic Psychology and Behaviour, 38</i> , 55-66.			Stéphane Espié
OCULOMOTO	French National	Lobjois, R., Dagonneau, V., & Isableu, B. (2016). The contribution of visual and proprioceptive information to the perception of leaning in a dynamic motorcycle simulator. <i>Ergonomics, 59 (11)</i> , 1428-1441.			Stéphane Espié
Saferider	European	Bekiaris, E., Nikolaou, S., Montanari, R., & Spadoni, A. (2012). <i>Results and estimated safety impact of the integration of Advanced Rider Assistance Systems (ARAS) and On-Bike Information Systems (OBIS) on PTW's of different types for enhancing riders' safety and comfort, performed within the framework of the SAFERIDER European project</i> . European Conference on Human Centered Design for Intelligent Transport Systems. Valencia, Spain, 14.06.-15.06.2012.	http://www.saferider.eu.org		Ioannis Symeonidis
Saferider	European	Bekiaris, E., Nikolaou, S., Montanari, R., & Spadoni, A. (2012). Saferider-Evaluation and impact assessment of ARAS/OBIS functions in PTW's to enhance rider comfort and safety. Transport Research Arena (TRA) Conference, Athens, Greece, 23.04.-26.04.2012.	http://www.saferider.eu.org		Ioannis Symeonidis

Saferider	European	Touliou, K., Margaritis, D., Spanidis, P., Nikolaou, S., & Bekiaris, E. (2012). Evaluation of Rider's Support Systems in Power Two Wheelers (PTWs). <i>Procedia-Social and Behavioral Sciences</i> , 48, 632-641.	http://www.saferider-eu.org	Ioannis Symeonidis
references on motorcycle simulators as research tools		Huertas-Leyva, P., Baldanzini N., Savino G., & Pierini M. (2015). Methodology to develop Training strategies for PTW riders to enhance Safety. <i>International Conference of Ergonomics & Human Factors 2015</i> , Daventry, UK, 13.04.-16.04.2015.		Giovanni Savino
		Kováčsová, N., Di Gesu, Schwab, A.L., Toso, A., Gubitosa M., Hagenzieker, M.P., & De Winter, J.C.F. (2015). A literature review on Human Factors research using motorcycle simulators, <i>Driving Simulation Conference & Exhibition 2015</i> , Tübingen, Germany, 16.09.-18.09.2015.		Giovanni Savino
		Massaro, M., Cossalter, V., Massaro, M., Sadauckas, J., & Lot., R. (2016). Using Simulators for the Assessment of Handling of Motorcycles. Proceedings of the Bicycle and Motorcycle Dynamics Conference – BMD 2016, Milwaukee, USA, 21.09.-23.09.2016.		Matteo Massaro
		Massaro, M., Cossalter, V., Lot, R., Rota, S., Ferrari, M., Sartori, R., & Formentini, M. (2013). A portable driving simulator for single-track vehicles. <i>Mechatronics (ICM)</i> , IEEE International Conference, 364-369.		Matteo Massaro
		Cossalter, V., Lot, R., Massaro, M., & Sartori, R. (2011). Development and validation of an advanced motorcycle riding simulator. Proceedings of the Institution of Mechanical Engineers, <i>Part D: Journal of Automobile Engineering</i> , 225(6), 705-720.		Matteo Massaro
		Nehaoua, L., Arioui, H. & Mammar, S. (2011). Review on single track vehicle and motorcycle simulators, <i>19th Mediterranean Conference on Control and Automation</i> , Greece, 20.06.-23.06.2011.		Matteo Massaro
		Watanabe, A., Kageyama, I., & Kuriyagawa, Y. (2012). Construction of Riding Simulator for Two-wheeled Vehicle Handling. <i>Driving Simulator Conference 2012</i> , Paris, France, 06.09.-07.09.2012.		Matteo Massaro
		Nehaoua, L., Hima, S., Arioui, H., Seguy, N., & Espié, S. (2007). Design and modeling of a new motorcycle riding simulator. <i>Proceedings of the American Control Conference IEEE 2007 - ACC'07</i> . New York, NY, 09.07.-13.07.2007, 176-181.		Matteo Massaro
		Miyamaru, Y., Yamasaki, G., & Aoki, K. (2002). Development of a motorcycle riding simulator. <i>JSAE review</i> , 23(1), 121-126.		Matteo Massaro
		Chiyoda, S., Yoshimoto, K., Kawasaki, D., Murakami, Y., & Sugimoto, T. (2000). Development of a motorcycle simulator using parallel manipulator and head mounted display. <i>Driving Simulation Conference (DSC00)</i> , Paris, FR, September 2000.		Matteo Massaro
		Benedetto, S., Lobjois, R., Faure, V., Dang, N-T., Pedrotti, M., & Caro, S. (2013). A comparison of immersive and interactive motorcycle simulator configurations. <i>Transportation Research Part F</i> , 2, 88-100.		Stéphane Espié
		Shahar, A., Dagonneau, V., Caro, S., Israel, I., & Lobjois, R. (2013). Towards identifying the roll motion parameters of a motorcycle simulator. <i>Applied Ergonomics</i> , 45(3), 734-740.		Stéphane Espié
		Dagonneau, V., Lobjois, R., Caro, S., Israel, I., & Shahar, A. (2011). Riding a Motorcycle Simulator: How Do Visual and Non-Visual Cues Contribute to the Illusion of Leaning in a Bend. <i>i-Perception</i> , 2(8), 856-856.		Stéphane Espié