MOBILITY AS A SERVICE (MaaS)

Abstract

Concept “Mobility as a Service” (MaaS) is the integration of different forms of transport services into a single on-demand service using a single application with a single payment channel. The goal of Maas is a world where you don’t have to own a car to live mobile and hassle-free, where there is no need to restrict driving, but where people have a better alternative instead. Although MaaS concept is a relatively new it takes on increasing importance; therefore, it needs to be strongly and systematically developed further. The occurrence of bottlenecks, congestion, increased fuel consumption and environmental pollution are the basic problems of large urban areas and MaaS with its functionalities it can solve some of these problems and greatly reduce external costs in traffic, such as congestion, pollution, reduce noise, but also reduce the number of accidents.

Keywords: sustainable mobility, mobility as a service, sustainable development

Predrag Brlek, Ph.D.

University North, Head of Logistics and Mobility Section, Trg dr. Zarka Dolinara 1, 48000 Korpivnica, Croatia

E-mail address: predrag.brlek@unin.hr

UNIN web: https://www.unin.hr/profili/profil/brlek-predrag

Google Scholar: https://scholar.google.hr/citations?user=k8lwr2YAAAAJ&hl=hr

Crosbi:
https://www.bib.irb.hr/pretraga?operators=and|Brlek,%20Predrag%20%2825882%29|text|profile

Born in Varazdin, live in Zagreb, work in Varazdin and Koprivnica. He accomplished Doctoral Study at University of Zagreb, Faculty of Transport and Traffic Sciences in the field of Technology of traffic and transport and his doctoral thesis was 'Method of sanation of dangerous spots on roads with the use of geo-referenced video'. He took part at many conferences and has many technical and scientific publications in the field of sustainable mobility, traffic safety and transport planning which qualified him for obtaining a title of scientific associate in scientific area of technical sciences.

His working experience started at Institute of Transportation and Communications Zagreb where he passed all phases from an expert associate through the leader of studies and projects to the director. In seventeen years he participated as a leader or author-contributor in more than a hundred traffic projects or studies. He worked at Polytechnic Nikola Tesla in Gospic as senior lecturer in Department for Road Traffic and he is visiting lecturer at Faculty of Transport and Traffic Sciences, University of Zagreb.

In the past four years he works as assistant professor at University North at Department of Logistics and Sustainable Mobility and is head of Logistics and mobility section. He is the University North's leader of two Interreg projects in the field of sustainable- and electro-mobility, „Low-Carb" and „E-MOB" as well as the swiss-croatian cooperation project „Take a Brake!" in the field of traffic safety.

Selected papers:

1. Brlek, P., Krpan, Lj., Grgurević, D.: Shared space concept in urban areas – 5. International Conference on Road and Rail Infrastructure „Cetra 2018", Zadar, 2018, https://doi.org/10.5592/CO/cetra.2018.864
2. Brlek, P., Cvitković, I., Globočnik Žunac, A.: Costs and beenfits of deploying cooperative intelligent transport systems in the European union, Proceedings of the International Scientific Conference "Science and Traffic Development" (ZIRP 2019), Opatija, 09-10.05.2019
3. Brlek, P., Cvitković, I, Martinčević, I., Kos, G.: Economic Aspects of the COVID-19 pandemic on external transport costs, 61st International Scientific Conference on Economic and Social Development – "Corporate social responsibility in the context of the development of entrepreneurship and small businesses", Varaždin, 22-23.10.2020
4. Brlek, P., Buntak, K., Krpan, Lj., Grđan, K.: Increasing The Mobility Of University North Students By Improving The Railway Infrastructure: Case Study On The Varaždin-Koprivnica

Route, Proceeding of the 1st International Conference „Public Transport and Smart Mobility“, Zagreb, 27.11.2020. (online), DOI: 10.7307/ptsm.2020.1

5. Kovačić, M., Brlek, P., Forjan, E.: Impact of corporative safety on sustainability of the organization, Quality system condition for successful business and competitiveness, 9th international conference, Kopaonik, 26-28.05.2021, p.81-86

6. Keček, D.; Brlek, P.; Buntak, K.: Economic effects of transport sectors on Croatian economy: an input–output approach, Economic Research – Ekonomska istraživanja, DOI: 10.1080/1331677X.2021.1931908

7. Mutavdžija, M.; Kodžaga, M.; Brlek, P.; Buntak, K.: Assessing Smart City Initiatives: A Case Study Of Croatian Municipalities, International Scientific Conference “The Science and Development of Transport” (ZIRP 2021), Šibenik, 29.9-01.10.2021

8. Brlek, P., MArtinčević, I., Domjan, N.: Role of MaaS in tourism, 6th International Conference Tourism in Southern and Eastern Europe - ToSEE 2021, 30 June - 02 July 2021, Opatija

9. Globočnik Žunac, A., Brlek, P., Kaniški, G.: Effect of Decreased mobility on Traffic Safety during the Covid-19 pandemic. 8th INTERNATIONAL CONFERENCE ’’TOWARDS A HUMANE CITY‘‘ New Mobility Challenges, Novi Sad 11th and 12th November 2021, Proceedings, p. 33-39

10. Krpan, Lj., Buntak, K., Brlek, P., Cvitković, I.: A model for defining the minimum standard for the accessibility of public passenger transport. International Journal for Quality Research, Vol. 15, No 4/2021, p. 1107-1126. DOI – 10.24874/IJQR15.04-06