

GREEN CITIES

GREEN LOGISTICS FOR GREENER CITIES

Szczecin, 23-24 September 2020



General agenda

23.09.2020

- Opening ceremony 11.00-11.15
- Plenary session: 11.15-12.15
 - J.H.R. (Ron) van Duin – Recent developments in City Logistics in Rotterdam
 - Russell G. Thompson – Recent developments in City Logistics in Melbourne
 - Maja Kiba-Janiak – Last mile delivery during the pandemic time – e-customers behaviours point of view
- On-line poster session I 12.15-13.00
- Electro-mobility in city logistics – discussion panel 13.00-14.00
- On-line poster session II 14.00-14.45
- On-line social networking 14.45-16.00

24.09.2020

- City logistics in the time of COVID-19 – discussion panel 11.00-12.00
- On-line poster session III 12.00-12.45
- Workshops I 12.45-13.30
- On-line poster session IV 13.30-14.15
- Workshops II 14.15-15.00
- Closing ceremony 15.00-15.15

Details for 23.09.2020

Opening ceremony

Plenary session:

Speakers:

1. **J.H.R. (Ron) van Duin** is a professor in logistics at Faculty Technology, Policy & Management at the Delft University of Technology and a professor in port & city logistics at the Rotterdam University of Applied Sciences. His research interest is focussing on modelling development in the field of ports, intermodal transport and city logistics.

Title: **Recent developments in City Logistics in Rotterdam**

Description: This presentation will describe recent advancements in the implementation of several city logistics measures like our hub (run by our students, combining research and practice), construction logistics by barge transport, the city as a 'city lounge', and our first steps towards Physical Internet (PI).

2. **Russell G. Thompson** has been active in City Logistics research for over 20 years. He has participated in numerous urban freight studies in Australia, Japan and Europe. Russell has a background in Mathematics and Transport Engineering. His current research interests include parcel lockers, collaborative freight systems, Physical Internet and on-line auction systems.

Title: **Recent developments in City Logistics in Melbourne**

Description: This presentation will describe recent advancements in the implementation of loading dock booking systems in Sydney and Melbourne. The benefits of implementing shared freight systems for retail distribution as well as B2B parcel networks will also be presented.

1. **Maja Kiba-Janiak** is an associate professor at the Wrocław University of Economics and Business, at the Department of Strategic Management and Logistics at the Faculty of Management. She participated in several projects financed by the national and European institutions mainly related to city logistics' strategy and urban freight transport. In 2019, she participated in a three-month research internship at the University of Melbourne, as part of which she conducted research on urban logistics.

Title: **Last mile delivery during the pandemic time – e-customers behaviours point of view**

Description: Since COVID-19 has been occurring in society, e-commerce increased significantly. Many customers have changed their purchase behaviours, especially regarding the way of parcel delivery. During the presentation preliminary study results on the influence of pandemic situation on e-customers' behaviour regarding purchasing via the internet will be discussed.

On-line poster session I:

Poster 1/1	The tendency of city stakeholders to implement sustainable logistics measures, on the example of the port city of Gdynia	Maria Matusiewicz, Ryszard Rolbecki
Poster 1/2	Research on the Tripartite Evolutionary Game of Public Participation in the Facility Location of Hazardous Materials Logistics from the Perspective of NIMBY Events	Gao Yia , Gaosheng Yang
Poster 1/3	Priority-based stakeholders analysis in the view of sustainable city logistics: Evidence for Tricity, Poland	Jagienka Rześny- Cieplińska, Agnieszka Szmelter-Jarosz

Poster 1/4	Designing sharing logistics: a disruptive innovation in city logistics	Van Duin, J.H.R., Quak, H.J., Anand, N., van den Band, N.
Poster 1/5	Exploring opportunities of using sharing economy concept in sustainable urban freight transport	Roma Strulak-Wójcikiewicz, Natalia Wagner
Poster 1/6	The possibility of using European green port measures in the development strategy of the seaport of Gdynia	Katarzyna Sosik, Marianna Maruszczak
Poster 1/7	Evaluation of Intelligent Transport Systems used in urban agglomerations and intercity roads by professional truck drivers	Natalia Drop, Daria Garlińska
Poster 1/8	Impact of the construction supplies implementation on road safety in the city center on the example of the city of Szczecin	Oleksandra Osypchuk, Katarzyna Sosik
Poster 1/9	Analysis and Modeling on Promotion of Electric Logistics Vehicles Based on Right-of-way Incentives	Tao Cheng, Yong Zhang, Yongcun Wei, Jia Lai, Lei Liu
Poster 1/10	Impact of ferry cargo traffic on port cities sustainability in the Baltic Sea Region	Ilona Urbanyi-Popiołek
Poster 1/11	Examining the carbon emissions effects of delivery route choice scenarios in Shenzhen, China	Zuopeng Xiao,, Huanghui He, Yaoyu Lin, Zhichao Ni
Poster 1/12	Decision-making model on the impact of vehicle use on urban safety	Dariusz Masłowski, Małgorzata Dendera-Gruszka, Ewa Kulińska

Discussion panel:

Electro-mobility in city logistics - EUFAL Project

Speakers:

1. **Anika Lobig** studied industrial engineering and works at DLR as a project manager. She has carried out several studies on the potential of e-vehicles in urban commercial traffic. Currently she is leading the EUFAL project, in which an information platform and several tools for users of e-vehicles have been developed.
2. **Dario Pacino** is associate professor at the Technical University of Denmark. He is an expert in transport optimization and operations research, with a focus on freight logistics.
3. **Gernot Liedtke** is a full professor in transport economist and head of the Department of Commercial Transport at the Institute of Transport Research at the German Aerospace Center. His research focuses on microsimulation and methods for evaluating transport systems.
4. **Juergen Zajicek** is a research engineer at the Austrian Institute of Technology in Vienna. His research fields are electromobility in urban logistics, multi-modal long-distance transport and railway operations and technology.
5. **Maciej Mazur** is the Managing Director of PSPA and Vice-President of AVERE, The European Association for Electromobility. A seasoned professional in the energy sector and economic issues, he has been present on the alternative market sector since 2012, especially in relation

to electric energy (electromobility). Among his many experiences, he was involved in the development of the largest infrastructural investments in Poland as well as consulting for companies from the oil&gas, automotive, financial and FMCG sectors.

6. **Bartosiński Kamil** is an Innovation and Development Manager in DPD Polska. He played many roles in the area of logistics and supply chain management. During over 15 years of professional career, he worked in companies such as Nagel Polska, Pekaes, Siódemka, and from 2015 at DPD Polska, where he was initially responsible for the logistics network and transport processes. For over three years, the function of the Innovation and Development Manager at DPD Polska. As part of his duties, he is responsible for the processes of evaluation and implementation of new technologies in the organization.

On-line poster session II

Poster 2/1	Omnichannel strategy: Challenges and opportunities for sustainability in Brazilian retail	Paulo Renato de Sousaa, Marcelo Werneck Barbosac, Leise Kelli de Oliveirab, Ricardo Ruiz Rodriguesa, Myrian Teixeira Mouraa, Daniel Matosoa
Poster 2/2	Urban freight transport in historical cities: towards a sustainable urban logistics plan to preserve the historical heritage	Leise Kelli de Oliveiraa , João Guilherme da Costa Bragaa , Carla de Oliveira Leite Nascimentoa , Leonardo Herszon Meirab , Ligia Rabayb , Francisco Gildemir Ferreira da Silvac
Poster 2/3	Impact of External Factors on E-commerce Market in Cities and Its Implications on Environment	Katarzyna Cheba , Maja Kiba-Janiak, Anna Baraniecka, Tomasz Kotakowski
Poster 2/4	Assessing Loading Dock Provision in New Developments	Michael Stokoe
Poster 2/5	Waste collection from passenger ships in port cities	Aleksandra Łapko, Ewa Hącia, Radosław Wieczorek
Poster 2/6	Evaluation of the Competitiveness of the Cities with China Railway Express Based on Entropy Weight TOPSIS	Jia Laia, Yong Zhanga, Tao Cheng, Lei Liua, Yongcun Wei
Poster 2/7	Decision support model for electric vehicle supplier selection	Mohamed Nadhim Ali, Nilesh Anand
Poster 2/8	Analysis of environment-friendly transport for last-mile logistics	Antonio Comia, Lidiia Savchenko

Poster
2/9

The role of Integrated Logistics Centers (ILCs) in modelling the flows of goods in urban areas based on the example of Italy

Andrzej Montwiłł, Oliwia
Pietrzak, Krystian Pietrzak

Poster
2/10

Planning the rational vehicle fleet for freight transportation which depends on temperature factor during the year

Andrii Galkin, Iryna
Tkachenko, Natalya
Shylllye,
Serhii Ostashevskyi,
Valeriy Levada

Details for 24.09.2020

Discussion panel:

City logistics in the time of COVID-19

Speakers:

1. **Leise Kelli de Oliveira** is an associate professor in the Federal University of Minas Gerais (Brazil). She develops research focused on urban freight transport in Brazilian cities. Her research motivation is to change the mind of the stakeholders about the importance of UFT to the economic development of the Brazilian cities.
leise@etg.ufmg.br
2. **Michael Stokoe** leads a team working on urban freight management within the state government agency, Transport for NSW, Australia. Working within the Sydney Coordination Office (SCO), Michael's role is focused on the efficiency of current freight activity while the city is undergoing major transformation and also looking to future strategies to serve the city for the future. The SCO is focused on short term managing all aspects of transport activities within Sydney CBD and other major locations across the Metropolitan area while major transformation work is undertaken on large public sector projects and private sector development.
michael.stokoe@transport.nsw.gov.au
3. **Bartosiniński Kamil** is an Innovation and Development Manager in DPD Polska. He played many roles in the area of logistics and supply chain management. During over 15 years of professional career, he worked in companies such as Nagel Polska, Pekaes, Siódemka, and from 2015 at DPD Polska, where he was initially responsible for the logistics network and transport processes. For over three years, the function of the Innovation and Development Manager at DPD Polska. As part of his duties, he is responsible for the processes of evaluation and implementation of new technologies in the organization.
4. **Maja Kiba-Janiak** is an associate professor at the Wrocław University of Economics and Business, at the Department of Strategic Management and Logistics at the Faculty of Management. She participated in several projects financed by the national and European institutions mainly related to city logistics' strategy and urban freight transport. In 2019, she participated in a three-month research internship at the University of Melbourne, as part of which she conducted research on urban logistics.
5. **Ewa Kurjata** is Ph.D., employed at Szczecin City Planning Office, specialises in strategic planning in the metropolitan areas, cross-border and international cooperation of cities.

On-line poster session III

Poster 3/1	The impact of future delivery models in last-mile home deliveries	Hans Quak, Bram Kin
Poster 3/2	Light Freight Railway (LFR) as an innovative solution for Sustainable Urban Freight Transport	Krystian Pietrzak, Oliwia Pietrzak, Andrzej Montwiłł
Poster 3/3	Cargo tram in freight handling in urban areas in Poland	Oliwia Pietrzak, Krystian Pietrzak

Poster 3/4	20 years of research on the use of e-vehicles in commercial transport – What is the status quo?	Anika Lobig, Lara Damer, Kia Madsen, Dilay Celebi, Stanislaw Iwan, Dario Pacino, Jürgen Zajicek
Poster 3/5	Artificial intelligence and blockchain for smart city	Sabina Kauf
Poster 3/6	Optimization of Excursion Routes Using Mobile Applications	Iryna Balandina, Iryna Pysareva, Larysa Obolentseva, Nataliia Vlashchenko
Poster 3/7	Sustainable last mile delivery on e-commerce market from the perspective of various stakeholders. Literature review	Jakub Marcinkowski, Maja Kiba-Janiak, Agnieszka Jagoda, Agnieszka Skowrońska
Poster 3/8	Managing Mixed Fleets of Electric and Conventional freight Vehicles under Routing Constraints	Reema Al-dalain, Dilay Celebi
Poster 3/9	Adoption of electric vehicles in urban freight transport: Addressing stakeholder needs in Turkey	Dilay Çelebi, Şükrü İmre, Funda Koca
Poster 3/10	Monitoring of Urban freight flows generation considering the human factor	Andrii Galkin, Natalia Davidich, Igor Chumachenko, Tatiana Melenchuk, Hanieva Taisiia, Natalia Artsybasheva, Yurii Davidich

Workshops session I:

Workshop 1/1. Urban freight transport and the cities

Coach:

Leise Kelli de Oliveira is an associate professor in the Federal University of Minas Gerais (Brazil). She develops research focused on urban freight transport in Brazilian cities. Her research motivation is to change the mind of the stakeholders about the importance of UFT to the economic development of the Brazilian cities.

Description:

Through four guiding questions, we will discuss the importance of urban freight transportation for cities, the challenges to develop public policies for UFT, challenges to implement city logistics solutions and to identify those responsible for implementing the solutions.

Workshop 1/2. Electric vehicles for city logistics - behavioural approach

Coach:

Russell G. Thompson has been active in City Logistics research for over 20 years. He has participated in numerous urban freight studies in Australia, Japan and Europe. Russell has a background in Mathematics and Transport Engineering. His current research interests include parcel lockers, collaborative freight systems, Physical Internet and on-line auction systems.

Description:

This workshop will involve exploring how behavioural choice modelling and behaviour change concepts can be utilised for developing initiatives for promoting the implementation of Electric Freight Vehicles. Participants will work on identifying and evaluating policies for government and companies for increasing the use of electric freight vehicles in urban areas.

On-line poster session IV

Poster 4/1	Development of multimodal transport as an attribute of sustainable city development	Marzena Kramarz , Edyta Przybylska
Poster 4/2	Electric scooter-sharing and bike-sharing user behaviour and characteristics	Tomasz Bieliński, Agnieszka Ważna
Poster 4/3	Freight demand assessment in the historical city of Bratislava	Yelyzaveta Volkova, Kristina Doubková, Silvia Capayova, Andrii Galkin, Oleksii Lobashov, Tibor Schlosser
Poster 4/4	Analysis and visualization of data obtained from camera mounted on unmanned aerial vehicle used in areas of urban transport	Artur Kujawski, Tomasz Dudek
Poster 4/5	Minimalization of Fuel Consumption in a city – Six Sigma Project Concept	Justyna Lemke, Roma Strulak Wójcikiewicz
Poster 4/6	The assumptions, conditions and barriers of the development of the Urban Consolidation Centre for Municipal Entities (UCCME)	Natalia Wagner, Stanisław Iwan, Kinga Kijewska
Poster 4/7	Analysis of maturity of stakeholders' engagement in urban freight transport: A comparison between Brazil, Norway, and Poland	Kinga Kijewska, Leise Kelli de Oliveira, Stanislaw Iwan, Bruno Vieira Bertoncinic, Odirley Rocha dos Santosb and Olav Eidhammer
Poster 4/8	Possibilities of using inland navigation to improve the efficiency of urban freight transport thanks to the use of the RIS system.	Piotr Durajczyk
Poster 4/9	Logistics sprawl analysis in the Metropolitan Regions of Paraná (Brazil)	Luísa Tavares Muzzi de Sousa, Leise Kelli de Oliveira
Poster 4/10	Analysis of the problem of transport congestion in selected cities in Poland	Agnieszka Barczak, Izabela Dembińska

Poster 4/11	Six Sigma in urban logistics management – a case study	Justyna Lemke, Kinga Kijewska, Tomasz Dudek, Stanisław Iwan
Poster 4/12	Developing active attitudes among city inhabitants as key stakeholders of Freight Quality Partnerships in the light of empirical studies based on the example of the city of Szczecin	Mariusz Jedliński, Kinga Kijewska

Workshops session II:

Workshop 2/1. Potential of E-Mobility in Urban Logistics - Exploring the EUFAL information platform

Coaches:

Anika Lobig studied industrial engineering and works at DLR as a project manager. She has carried out several studies on the potential of e-vehicles in urban commercial traffic. Currently she is leading the EUFAL project, in which an information platform and several tools for users of e-vehicles have been developed.

Dilay Çelebi is a full professor of Management Engineering at Istanbul Technical University. Her research interest include transportation planning, international logistics, and management of logistics operations.

Juergen Zajicek is a research engineer at the Austrian Institute of Technology in Vienna. His research fields are electromobility in urban logistics, multi-modal long-distance transport and railway operations and technology.

Description:

In the EUFAL project, an information platform has been developed to demonstrate the potential of E-mobility in urban logistics. We offer the opportunity to explore and discuss the EUFAL platform.

Workshop 2/2. Risk analysis tool for urban freight transport's measures' implementation

Coach:

Maja Kiba-Janiak is an associate professor at the Wrocław University of Economics and Business, at the Department of Strategic Management and Logistics at the Faculty of Management. She participated in several projects financed by the national and European institutions mainly related to city logistics' strategy and urban freight transport. In 2019, she participated in a three-month research internship at the University of Melbourne, as part of which she conducted research on urban logistics.

Description:

The problem of risk in the area of urban freight transport concerns on the one hand individual measures implemented in this area, and on the other the entire freight transport system in the city. For the purposes of this workshop risk will be considered from the perspective of threats that impede the realisation of UFT measures. The tool for risk analysis for urban freight transport's measures' implementation will be presented during the workshop.

Closing ceremony