

3rd VREF Conference on Urban Freight

Designing urban space and managing flows –
the importance of freight for liveable cities

Current issues influencing urban freight research

17 October, University of Gothenburg

Programme

Agenda

- 08.30 *Registration*
- 09.00 Opening session (Room C22)
- 09.15 **Session 1** (Rooms B32, B33, B34, B21, B24)
- 10.30 *Coffee break*
- 11.00 **Session 2** (Rooms B32, B33, B34, B21, B24)
- 12.15 *Lunch (Stora Matsalen)*
- 13.15 **Poster Session** (Sprängkullsgatan 19)
- 14.15 **Session 3** (Rooms B32, B33, B34, B21, B24)
- 15.30 *Coffee break*
- 16.00 **Session 4** (Rooms B32, B33, B34, B21, B24)
- 17.15 Closing session
- 19.00 Conference Networking Event (Restaurant OBGB)

Time		The last mile <i>Room B32</i>	Innovations <i>(Room B33)</i>	Intermodal transportation, urban form and logistics sprawl <i>(Room B34)</i>	Models and initiatives for urban distribution <i>(Room B21)</i>	Planning and governance <i>(Room B24)</i>
08:30	09:00	Coffee/registration				
09:00	09:15	Opening session				
09:15	10:30	Cargo bikes	Shared economy and logistics business	Mixed topics I	FTG Modeling	Governance
10:30	11:00	Coffee break				
11:00	12:15	Business Models	Digitalization for freight	Intermodal transportation	Modeling and Simulations	Planning and policy I
12:15	13:15	Lunch				
13:15	14:15	Poster session				
14:15	15:30	The use of pick up point for e-commerce	Mixed topics II	Land use	Off-hour deliveries	Planing and policy II
15:30	16:00	Coffee break				
16:00	17:15	Final 50 feet	e-groceries	Logistics sprawl	Consolidation strategies	Stakeholder engagement
17:15	17:30	Closing session				

Session 1 (09:15 – 10:30)

1-A Cargo bikes (Chair: Alison Conway)

- 41 Analysing efficiency and financial viability of cargo bike operations
*Tale Ørving**, *Karin Fossheim*, *Christian Weber*, *Jardar Andersen*
 - 50 Between cargo cycles and delivery vans: size matters!
*Christian Rudolph**, *Gernot Liedke*, *Johannes Gruber*
 - 96 The drivers for the development of the cargo-bikes-based delivering systems for the small and medium size cities
Kinga Kijewska, *Stanislaw Iwan**, *Clemens Weiss*, *Udo Onnen-Weber*, *Mariusz Nürnberg*
-

1-B Shared economy and logistics business innovations (Chair: Laetitia Dablanc)

- 53 A joint demand and supply chain characterization for school canteen urban distribution in Sweden
*Laura Palacios-Argüello**, *Ivan Sanchez-Diaz*, *Jesus Gonzalez-Feliu*, *Natacha Gondran*, *Joakim Carlsson*
 - 44 Green Crowdshipping: a new collaborative economy service for urban logistics
*Valerio Gatta**, *Edoardo Marcucci*, *Marialisa Nigro*, *Simone Serafini*
 - 67 On-Demand Instant Deliveries: New Questions for Cities
*Laetitia Dablanc**, *Neila Saidi*
-

1-C Mixed topics 1 (Chair: Maja Piecyk)

- 52 Rethinking the delivery area model: what opportunities to better combine uses in time and space?
*Antoine Radal**, *Kevin Pereira*, *Anne-Laure Sergent*
 - 68 Innovative Services for Urban Logistics Micro Hubs
*Reinhold Schodl**, *Sandra Eitler**, *Bernhard Ennser*, *Jürgen Schrampf*, *Gerda Hartmann*, *Sandro Bell*
 - 8 Identifying conflicts and regulations which prevent good solutions for delivery of goods
Amund Hareland, *Morton Lippestad*
-

1-D FTG modeling (Chair: Carlos Gonzales-Calderon)

- 39 Urban Economies and Freight Activity
José Holguin-Veras, *Wilfredo Fernando Yushimito Del Valle*, *Juvena Ng*, *Diana Ramirez-Rios*, *Carlos Rivera-Gonzalez**
 - 82 An assessment of multiple freight trip generation modelling approaches
*Middela Mounisai Siddartha**, *Gitakrishnan Ramadurai*
 - 104 Freight Trip Generation: An experience from Indian Cities
Gopal Patil
-

1-E Governance (Chair: Giuseppe Luppino)

- 49 Barriers in governance of construction logistics
*Michael Berden**, *Marie Morel*, *Walther Ploos van Amstel*
- 59 Co-creating space for sustainable urban freight services: the case of brown-field development for urban consolidation centers
*Jon Williamsson**, *Anders Sandoff*
- 91 Chances for successful transfer – Evaluation Methods for innovative urban freight solutions
*Jens Klauenberg**, *Sara Verlinde*, *Edoardo Marcucci*, *Valerio Gatta*

Session 2 (11:00 – 12:15)

2-A Business models (Chair: Walther Ploos van Amstel)

- 1 New business models for tackling the last-mile problem in central London
Maja Piecyk, J. Allen, O. Bates, T. Bektas, T. Cherrett, A. Friday, F. McLeod, T. Ngygen, M. Piotrowska, S. Wise*
 - 42 Scalable Business Models for Light Electric Freight Vehicles
Martin Boerema, Walther Ploos van Amstel, Susanne Balm*
 - 63 Sustainable business models for urban waterway transport of goods and waste
Martin Svanberg, Sönke Behrends, Jon Williamsson*
-

2-B Digitalisation for freight (Chair: Jonas Flodén)

- 79 Improving freight efficiency with load matching technology
Seiji Steimetz, Tyler Reeb, Thomas O'Brien, Ahmed Mohammed*
 - 92 Home-Based Delivery Supply Chains: The Digitalization Paradigm
*Jean-Paul Rodrigue**
 - 95 Information asymmetry in urban freight transport of dangerous goods
Jonas Flodén, Johan Woxenius*
-

2-C Intermodal transportation (Chair: Peter Hall)

- 5 A module-based approach to land-use efficiency of urban rail-road freight terminals
*Tobias Fumasoli**
 - 51 Where to open maritime containers
Yann Bouchery, Rickard Bergqvist, Johan Woxenius*
 - 60 Governance of port container drayage: a global typology and analysis
Peter Hall, Tom O'Brien*
-

2-D Modeling and Simulations (Chair: Lóri Tavasszy)

- 19 Agent-based simulation of urban freight flows based on carrier microdata
Michiel de Bok, Lóri Tavasszy, Mathijs Jacobs*
 - 22 An Agent-based Model of Freight Transportation with Emerging Trends in POLARIS
Monique Stinson, Josh Auld, Abolfazl (Kouros) Mohammadian*
 - 94 Truck Lane Modeling and Simulation along a Major Corridor in Metro Manila
*Alexis Fillone**
-

2-E Planning & policy 1 (Chair: Kelly Pitera)

- 10 Tools to Facilitate Implementation of Effective Metropolitan Freight Transportation Strategies
*Bill Eisele**
- 46 Mapping deliverability for goods transport. Can the ABC-method be adapted for city logistics?
Yngve Frøyen, Astrid Bjørgen, Kelly Pitera, Tor Medalen, Odd Andre Hjelkrem*
- 65 Sustainable urban logistics plan: implementation guidelines
Georgia Aifadopoulou, Elpida Xenou, Maria Rodrigues, Stefano Dondi*

Session 3 (14:15 – 15:30)

3-A The use of pick-up points for e-commerce (Chair: Ceren Altuntas Vural)

- 11 Collection and Delivery Points in E-Retailing: A Solution to the Last Mile Delivery Problem
*Çağlar Aktepe, Ceren Altuntas Vural**
 - 18 The urban layer of e-commerce deliveries: the proliferation of CDPs
*Joris Beckers**
 - 29 How can omnichannel retailers create an attractive and sustainable last mile offer?
Heleen Buldeo Rai, Sara Verlinde, Cathy Macharis*
-

3-B Mixed topics 2 (Chair: Seckin Ozkul)

- 28 Exploring the potential of opportunity charging for electric freight vehicles in urban freight transport
*Tharsis Teoh**
 - 80 Evaluation of Florida's Inbound and Outbound Freight Imbalance
*Seckin Ozkul**
 - 89 Strategic Route Planning of Truck Traffic in Metro Manila
Riches Bacero, Alexis M. Fillone*
-

3-C Land use (Chair: Adeline Heitz)

- 40 Emerging Market and Technological Trends Impacting Freight Landscape
*José Holguin-Veras, Cara Wang, Juvena Ng, Diana Ramirez-Rios, Sofia Pérez-Guzman**
 - 71 Shopping, freight deliveries, and urban form
Genevieve Giuliano, Sanggyun Kang, Quan Yuan*
 - 72 Leverage effect of a mega-event on logistics facilities' development in the Paris Metro Area: urban renewal and "logistics gentrification"
*Adeline Heitz**
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3-D Off-hour deliveries (Chair: Ivan Sanchez-Diaz)

- 38 Trusted Vendor Program: A Recognition Program to Encourage Off-Hour Deliveries
*José Holguin-Veras, Cara Wang, Jeffrey Wojtowicz, Diana Ramirez-Rios, Juvena Ng**
 - 83 Hybrid Monte Carlo and continuous approximation approach to evaluate Off-Hours Deliveries alternatives in the City of São Paulo, Brazil
Hugo T. Y. Yoshizaki, Claudio B. Cunha, Daniel O. Mota*
 - 66 Typology for urban logistic terminals: is logistics real estate back into cities?
Neila Saidi, Diana Diziain, Laetitia Dablanc**
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3-E Planning & Policy 2 (Chair: Sönke Behrends)

- 37 How temporary yet long-term capacity reductions in the urban road network impact freight transport – case studies from Oslo (Norway)
Elise Caspersen, Tale Ørving*
- 84 Review of urban freight planning documents and measures in European cities
Tomislav Letnik, Maršenka Markse, Giuseppe Luppino, Andrea Bardi, Stane Božičnik*
- 90 The wrong side of the tracks: quantifying barrier effects of transport infrastructure on local accessibility
Job van Eldijk, Sönke Behrends*

* Presenter

Session 4 (16:00 – 17:15)

4-A Final 50 feet (Chair: Barbara Ivanov)

- 24 Will Common Carrier Lockers in Public Spaces Ease the E-Commerce Delivery Explosion in Cities?
Haena Kim, Barb Ivanov, Anne Goodchild*
 - 25 Understanding the use of the curb space and alley for unloading and loading operations: A Seattle Case Study
Gabriela Giron, José Luis Machado-León, Anne Goodchild*
 - 26 Estimating the Location of Off-Street Infrastructure for Delivery and Pick-Up Operations in Dense Urban Areas
Jose Luis Machado, Anne Goodchild*
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4-B E-groceries (Chair: Sara Rogerson)

- 17 Investigating consumers' preferences for e-grocery services: an exploratory study
Edoardo Marcucci, Valerio Gatta, Svein Brathen, Michela Le Pira*
 - 43 E-grocery in Sweden: energy efficient last mile distribution?
*Sara Rogerson, Jenny Karlsson**
 - 87 E-grocery of tomorrow – home delivery of food between profitability, customer acceptance and ecological footprint
Christoph von Viebahn, Maik Trott, Hai Mi Ngo*
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4-C Logistics sprawl (Chair: Mathieu Gardrat)

- 30 Land suitability assessment for the location of warehouses: the Belo Horizonte context in a metropolitan scale
Renata Lúcia Magalhães de Oliveira, J. Wilkolek, A. Ferreira, L. K. Oliveira*
 - 45 Urban growth and freight transport: beyond logistics sprawl and towards a distension
*Mathieu Gardrat**
 - 48 Transport depots and logistics facilities as new challenge in urban planning: A logistic Master plan
*Daniele Patier**
-

4-D Consolidation strategies (Chair: Eiichi Taniguchi)

- 16 Freight analysis, and development of a c/o address solution to the Nordstan shopping center in Gothenburg, NOVELOG
*Christoffer Widegren**
 - 32 Ex-ante assessment of how an urban consolidation centre affects freight trips to a retail district
Rakhi Manohar Mepparambath, Lynette Cheah, Costas Courcoubetis*
 - 33 Impacts of Joint Delivery Systems with Urban Consolidation Center for Sustainable City Logistics Using Adaptive Dynamic Programming Based Multi-Agent Simulation
Nailah Firdausiyah, Eiichi Taniguchi, Ali Gul Qureshi*
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4-E Stakeholder engagement (Chair: Anna Fredriksson)

- 4 Key attributes for successful stakeholder participation in collaborative urban mobility planning
Astrid Bjørgen, Karin Fossheim*
- 6 Strategies for managing urban goods movement: striking a balance between sustainability and livability
*Teddy Forscher**
- 13 Multi stakeholder involvement in construction logistics challenges
Anna Fredriksson, Mats Janné, Pamela Nolz, Tom van Lier*

* Presenter

Poster session (13:15 – 14:15)

- 2 Stakeholders' viewpoint on the integration of urban distribution centers and freight villages in Palmas, Brazil
Lílian dos Santos Fontes Pereira Bracarense, Beatriz Senna, Leise de Oliveria, Renata Lúcia Magalhães de Oliveira*
- 3 The need for improved information flow to address safety in urban construction site deliveries
Lisa Hannasvik, Petr Pokorny*, Kelly Pitera**
- 7 Urban Freight Consolidation and the Public Interest: Understanding Stakeholder Motivations
*Matthew Reiter**
- 14 Exploring the application of urban form profiles in freight trip generation
Jorge Gil, Iván Sánchez-Díaz*
- 23 One City - Cargobikes in Rotterdam
Robin van der Ree, Tim Sjouke, Fenno Visser, Fred Hoogendoorn, Rik van Lonkhuizen*
- 27 Assessment of collection points in Gdansk on the availability of mobility alternatives to the car
*Grazyna Chaberek-Karwacka**
- 31 An Assessment of Competitiveness of Electric Trucks in City Logistics
*Ali Gul Qureshi, Eiichi Taniguchi**
- 47 How cities' policies and changes in demand pattern may affect urban mobility planning
Astrid Bjørgen, Odd Andre Hjelkrem, Kelly Pitera, Yngve Frøyen*
- 54 Analysis of the productivity and spatial potential of using rapid urban railway in last mile freight in the Metropolitan Area Gdańsk Gdynia Sopot
Mateusz Urban, Grażyna Chaberek-Karwacka*
- 55 Sustainable city logistics: Evaluation of pooling practices in various urban contexts
*Florence Toilier**
- 57 NYC Clear Curbs: Implications for Goods Movement
*Alison Conway**
- 61 Vulnerability & Resilience Analysis of Food Truck Distribution Routes in New York City
Sandeep Mudigonda, Camille Kamga, Alison Conway*, Charles Ukegbu, Patricio Vicuna, Rodrigue Tchamna*
- 62 A Comprehensive Study of Truck-Involved Crashes On and Off Truck Routes in New York City
Dan Wan, Camille Kamga, Alison Conway, Sandeep Mudigonda, Charles Ukegbu, Patricio Vicuna*
- 64 Validation City logistics planning process: Complementing experts impact assessment with simulation tools results
Georgia Ayfadopoulou, Elpida Xenou, Eftihia Nathanail, Lambros Mitropoulos, Leonida Parodos*
- 70 Modelling and urban last-mile pick-up and delivery network for e-commerce
Iván Cárdenas, Iván Sánchez-Díaz*
- 73 Estimating the direct and indirect impacts of off-hours deliveries - Exploratory results from the City of Lyon, France
*Adrien Beziat**
- 74 Influence of service trips on the demand for parking space
*Carlos A. Gonzalez-Calderon, John Jairo Posada-Henao, Diana Patricia Moreno-Palacio, Natalia del Carmen Espitia Pereira, Ricardo Quintero-Giraldo**
- 75 Freight trips generated by large buildings: an empirical investigation
Francisco Javier Maffa-Hernández, Carlos A. Gonzalez-Calderon, John Jairo Posada-Henao*
- 77 Effects of on-line shopping on freight transport in developing countries
Natalia Espitia-Pereira, Carlos A. Gonzalez-Calderon, John Jairo Posada-Henao*

* Presenter

- 78 Trucks bans in cities due to emissions: are they efficient?
*Daniel M. Ocampo-Giraldo, Carlos A. Gonzalez-Calderon, John Jairo Posado-Henao**
- 85 Contending with the impacts of e-commerce through city logistics strategies
Miguel Jaller, Anmol Pahwa*
- 88 Urban freight traffic in Hanover (Germany) - Evaluation of logistics concepts using a multi-stage system
Maik Trott, Hai Mi Ngo, Christoph von Viebahn*
- 93 SULPiTER tool for understanding freight behaviors and impacts in functional urban areas
*Andrea Campagna, Giuseppe Luppino**
- 97 The assumptions, conditions and barriers of the development of the Urban Consolidation Centre for Municipal Entities (UCC-ME)
Kinga Kijewska, Stanisław Iwan, Natalia Wagner, Mariusz Jedliński*
- 99 Impact mitigation of urban construction logistics: solutions and strategies in Europe
Andrea Bardi, Eleonora Tu, Francesco Ferrero, Cindy Guerlain, Mauro dell'Amico, Valerie Castay*
- 100 Modeling the last mile delivery: a case study on foods delivery in Paris city
Ouail Oulmakki, Jérôme Verny*
- 101 Estimating the impacts of a sustainable electric cargo-bike implementation in Amsterdam
*Stefan Talen**
- 103 Freight transport decisions and their considerations in the Southern African Development Community (SADC)
*Abisai Konstantinus**