



H2020 MSCA-RISE-2016 ProSFeT Project

Promoting Sustainable Freight Transport in Urban Contexts:
Policy and Decision-Making Approaches

Periodical Newsletter Year 2 – Issue 1

Second Consortium Meeting

In June 2018 the 2nd face-to-face meeting was held in Sheffield, followed by the mid-term project meeting with the European Project Officer.

Presentations on the progress of the project were delivered and are available [here](#)



International Workshop on Policy and Decision-Making Approaches for Sustainable Urban Freight Transport

ProSFeT ran an intensive school on 13th – 15th June at Sheffield University Management School, Sheffield, UK.

Presentations were delivered by guests from international partners and it was an opportunity to learn about Sustainable Urban Logistics from multiple perspectives (Academics, Local Authorities, Software Houses developing solutions for decision support tools).

Programme and presentations are part of deliverables and are available on the [project website](#)



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New Partner

The South East European Research Centre (SEERC), Greece

In May 2018 The South East European Research Centre (SEERC), Greece, has joined the ProSFeT project. Its expertise on Sustainable Freight Transport and Development Policy has been developed through a long-lasting collaboration with the University of Sheffield in EU-funded projects, such as REINVEST (focusing on sustainable transportation research in EU & India) and its quality transportation research through its own research agenda and PhD candidates. SEERC is the European host of the Advanced Resource Efficiency Centre (AREC) from UK (resource efficiency and sustainable transportation), and it is the founder of the Triple Helix Association Chapter of Greece (THAG) which is part of the Global Triple Helix Association (THA) (initiated by the University of Stanford, USA).

Secondments

The second year of the project has seen a series of secondments taking place.

- From The University of Sheffield, James Jones and Shucheng Leo worked with the Stockholm Stad to continue the collaboration with Robin Billsjö and Amanda Baumgartner for a study about hydrogen supply for alternative vehicles to be utilised in urban logistics activities, and the creation of a questionnaire to collect stakeholders' needs.
- Anna Melchiori, From CNR, completed her secondment to Sheffield City Council supporting the Waste Management Team and her scientific contribution focused on the design of a tailored mathematical optimization models and resulted in the implementation of a user-friendly Decision Support System that allows the SCC Team to test and visualize different configuration scenario.
- Alessandro Crimi visited Shaping Cloud to design the software architecture for a web-oriented Spatial DSS addressing the needs for strategic decision support for location problems arising in the field of urban freight transport.
- The University of Extremadura is undertaking his first secondments with Sergio Rubio in visit at Sheffield City Council and José Manuel Garcíá Gallego at Bradford City Council. The activities carried out by Sergio were aimed at analysing the possibilities of developing a cargo tram structure in the city of Sheffield. Based on similar projects developed across Europe, an analysis about the opportunities for implementing solutions for urban freight by using the tram network has been developed and a review of the literature and best practices related to cargo tram in urban contexts has been carried out. José Manuel has worked on the creation of a survey aimed at freight lorry drivers in order to analyse their characteristics, preferences and intentions related to a specific Lorry Parking Facility planned to be built.
- Dr Solomon, from SEERC, is visiting the Sheffield City Council to work on the new solutions to address the city's freight transportation challenges.
- The first secondment from Softeco has started with a visit from Marco Gorini to The University of Sheffield to work toward the planning of a tool to be used by a variety of stakeholders in addressing lorries parking requests.

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Call for Publications - Special Issue

[Decision Support Systems for Urban Logistics Planning: Multi-Stakeholder and Participative Approaches](#)

A Special Issue on Decision Support Systems for Logistics will be published on [Sustainability](#) (ISSN 2071-1050) in the section “Sustainable Transportation”.

Deadline for manuscript submissions: **31st December 2018**

Survey: O2O Business Model Impact on Transport Emissions

The University of Sheffield ProSFeT Team has designed an online survey on business model impacts. We are inviting you to take part in this questionnaire on transport to help evaluate the impact of online and offline models on local transport emissions.

Please access the survey using the link below:

https://sheffieldmanagement.eu.qualtrics.com/jfe/form/SV_bxA04HzZp93xIBT

This online questionnaire will take about fifteen (15) minutes to complete and you will be required to provide responses to questions that relate to your shopping practices and transport journeys to complete shopping transactions.

By providing the most accurate response, you will enable us to gain insight into transport factors that may be affecting the quality of life for yourself and other members of society. The findings from our study will be published in accessible reports, including policy recommendations that can help improve the quality of life in urban areas.

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Publications

- ❖ A special session was delivered by ProSFeT at the **4th Annual Project Logistics Conference (ProLog), University of Hull Logistics Institute, 28th to 29th June 2018 (<http://www.prolog-conference.com>)**. Papers are available [here](#)
- Genovese et al., in their paper titled "*An evaluation of current decision support systems for urban freight transport planning and their adaptability in multi-stakeholders' contexts*" provide a review of the extant literature on decision support systems (DSS) for urban freight transport.
Genovese, A., Luo, S., Rubio, S., Sgalambro, A., Tob-Ogu, A., Ballantyne, E. (2018), [*An evaluation of current decision support systems for urban freight transport planning*](#), Prolog 2018, Hull, UK, 28th-29th June 2018.
- Jones et al., presented the paper "*Hydrogen vehicles in urban logistics: A total cost of ownership analysis*", which progresses the discourse on alternative (hydrogen) vehicles as viable strategic options for addressing sustainability concerns in urban logistics. A critical component of sustainable logistics solutions is economic cost for concerned stakeholders, particularly for freight transport operators.
Jones, J., Genovese, A. Tob-Ogu, A. (2018), [*Hydrogen Vehicles in Urban Logistics A Total Cost of Ownership Analysis*](#), Prolog 2018, Hull, UK, 28th-29th June 2018.
- A multi-criteria decision-making (MCDM) approach for evaluating the performance of urban consolidation centres (UCC) systems is proposed in Luo et al. The approach combines and elaborates economic, environmental and social indicators arising from previous research and seeks to capture the perspective of the multiple stakeholders involved in UCC systems.
Luo, S., Genovese, A., Sgalambro, A. (2018), [*A Multi-Stakeholder and Multi-Criteria Decision-Making Approach for Evaluating the Performance of Urban Consolidation Centres*](#), Prolog 2018, Hull, UK, 28th-29th June 2018.
- Rubio et al., describe and analyse the existing relationships between Reverse Logistics and Urban Logistics in order to identify opportunities for collaboration between these two disciplines, taking advantage of the knowledge generated in each of them through its application to existing problems within our cities. Among the main challenges to be jointly addressed by the two disciplines are those relating to: 1) the proper treatment and management of urban waste; 2) the recovery and management of recoverable materials and products; and 3) the management of commercial refunds or returns.
Rubio, S., García-Gallego, J.M., Valero-González, J.M., Chamorro-Mera, A., Miranda, F.J., Jiménez-Parra, B. (2018), [*Reverse Logistics and Urban Logistics Commonalities and opportunities for collaboration*](#), Prolog 2018, Hull, UK, 28th-29th June 2018.
- The paper titled "*Transitioning Urban Consolidation Centres initiatives in successful operations: A collection of EU case experiences*", by Serena et al., investigates existing UCC initiatives within the EU, identifying some reasons for failures as well as critical success factors for transition from project to operations phase. The findings from this study offer knowledge insights that can help municipalities and their stakeholders design and implement sustainable UCC initiatives.
Serena, A., Tob-Ogu, A., Genovese, A. (2018), [*Transitioning Urban Consolidation Centres initiatives in successful operations*](#), Prolog 2018, Hull, UK, 28th-29th June 2018.

❖ Other Publications

- Tob-Ogu, A., Kumar, N., Cullen, J., Ballantyne, E.F. (2018), [*Sustainability Intervention Mechanisms for Managing Road Freight Transport Externalities A Systematic Literature Review*](#), Sustainability, Special Issue "Sustainable Freight Transport"
With road freight transport continuing to dominate global freight transport operations, there is increasing pressure on the freight transport industry and its stakeholders to address concerns over its sustainability. This paper adopts a systematic review to examine the academic literature on road freight transport sustainability between 2001 and 2018.
- Ciardiello, F., Genovese, A., Simpson, A. (2018) [*A unified cooperative model for environmental costs in supply chains: the Shapley value for the linear case*](#), Annals of Operations Research ISSN: 0254-5330 (Print) 1572-9338 (Online)
This paper provides a normative framework based on cooperative game theory aimed at studying the problem of pollution responsibility allocation across multi-tier supply chains. The model is further developed with reference to the case of a linear supply chain, by using three responsibility principles (namely: Upstream, Downstream and Local Responsibility).

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