

# GRASS (GReen And Sustainable freight transport Systems in cities) Project Information bulletin

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*„We have only one Earth,  
and its future depends on  
seemingly slight, human activity,  
depends on every one of us.”*

*Florian Plit*

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## Introduction

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The work on the GRASS Project is still in progress. Actions implemented under the First Work Package were completed, and currently, we are in the middle of intense preparations for Knowledge Transfer Workshop planned for 27 March 2014 and the Green Cities Conference, which will be held on 19-21 May. We have also begun preparations for the implementation of the Third Work Package, which will include the analysis of the supply needs in two key cities involved in the project - Szczecin and Oslo.

This issue of e-bulletin presents current stage of performed activities, as well as detailed descriptions of workgroup members implementing GRASS Project.

## Completed actions

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The research works carried out under the First Work Package are completed. They focused on a comparative analysis of activities in favour of more environmentally friendly system of urban freight transport in Norwegian and Polish cities. Under the survey research, we have obtained data from local governments and, in addition, we have made a review of the materials provided on the websites of the cities, as well as the websites of the projects.

We have analysed a total of 68 Polish and 11 Norwegian initiatives for the implementation of environmentally friendly urban freight transport functioning in accordance with the principles of sustainable development.

The research process highlighted the significant level of fragmentation of competences, which caused difficulties in obtaining data. In particular, this phenomenon referred to the Polish cities. It is, therefore, justified to start actions to establish specialized units in the structures of cities aimed at the ongoing supervision of the urban freight transport functioning, the so-called urban logistics managers. The concept of this type of organizational unit has already been formulated in the C-LIEGE project ([www.c-liege.eu](http://www.c-liege.eu)).

It is worth emphasizing the general conclusion drawn from the analysis. This conclusion shows that actions taken in Norwegian cities aimed at reducing the negative impact of aspects of urban freight transport on the environment and reducing the consumption of conventional drives are taken in far greater extent than in case of Polish cities. The implementation of such solutions is still a challenge for Polish cities, because they are dominated by activities aimed at limiting access to certain urban areas.

Such solutions demonstrate the effectiveness limited mainly to the particular zone and have less impact on achieving the demands of sustainable, energy-efficient urban freight transport in relation to the entire city.

## Current actions

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The works under the Second Work Package are being finalized. The leader of the tasks is the Institute of Transport Economics of Oslo. The main objective of the analysis is to assess the European and global initiatives for the development of energy-efficient urban freight transport. The emphasis is put on organizational problems associated with supplies in urban centres, as well as the negative impact of these supplies on the environment. Workgroup members are also analysing projects, studies and implementations of sustainable transport development that have been carried out in these countries in recent years. This work package will be summarized by the Knowledge Transfer Workshop to be held on 27 March 2014 in Oslo.

## Knowledge Transfer Workshop

On 27 March 2014 during the Knowledge Transfer Workshop in Oslo, we will present the current results of the Project, as well as examples of activities undertaken in various projects aimed at the development of energy-efficient urban freight transport. The invited guests include representatives of local governments, as well as stakeholders from the business environment.

Through the exchange of knowledge and experience, the meeting shall assist the joint action at regional and international level, which will improve the functioning of urban freight. An important part of the meeting shall be presentations of best practices and innovative solutions.

Participation in the workshop is free of charge. Registration can be made by filling out a form on the website under Conferences and meetings tab.

Workshop conclusions will be presented in the next issue of e-bulletin.



## Green Logistics for Greener Cities Conference

Currently, we are working on the organization of the Green Logistics for Greener Cities Conference, which will be held on 19-21 May 2014 in Szczecin. Confirmed participants in the Conference include many specialists from Poland and Norway, as well as from Japan, Australia, Great Britain, Italy and the Netherlands. Conference website: <http://conference.grassproject.eu>

## Workgroup implementing GRASS Project

*Project Leader – Faculty of Economics and Transport Engineering  
of the Maritime University of Szczecin*



*Established in 2001, Faculty of Economics and Transport Engineering is the newest faculty of the Maritime University of Szczecin. From the beginning, its major areas of scientific research include functioning of logistics systems and the development of sustainable transport in cities. Representatives of the Faculty are actively involved in national and international projects, including those financed by the National Science Centre, National Research and Development Centre, or those implemented under the European Union programmes. Among others, the Faculty was a partner in an international C-LIEGE project (Clean Last mile transport and logistics management for smart and Efficient local Governments in Europe) implemented under the Intelligent Energy-Europe programme focused on developing energy-efficient urban freight transport.*

### Stanisław Iwan, Ph.D- Project manager

Responsible for proper project implementation, coordination and communication between partners and dissemination of information on the GRASS Project. Leader of the first, fifth and sixth work packages (WP1, WP5, WP6).

Adjunct at the Maritime University of Szczecin, Faculty of Economics and Transport Engineering. His fields of expertise include, among others, city logistics, transport telematics, logistics telematics and methods of utilizing artificial intelligence in transport and logistics.

The author or co-author of more than 70 papers and chapters in monographs.  
Coordinator and investigator in international and domestic projects concerning urban logistics and sustainable development.

## Prof. Mariusz Jedliński, Ph. D.

Responsible for the evaluation of research carried in the Project and support for pilot experiments conducted in Szczecin.

Professor at the Faculty of Economics and Management Services of the University of Szczecin. Lecturer at several universities in Poland in full-time, part-time, postgraduate, MBA and PhD programmes. Completed international scientific internship programmes at GRETA Rouen Sud (Groupement d'établissements) and Leeds University Business School. Consultant of AQIS (Australian Quarantine Inspection Service) in the logistics for economic practice. President of the Polish Logistics Association. Author of numerous scientific publications. Coordinator and participant in many national and international research projects.

## Wojciech Konicki Ph.D. Eng.

Leader of the fourth work package (WP4). Responsible for the preparation of models of pollution generated by urban transport in Szczecin. Also supports the pilot experiments in Szczecin conducted in GRASS Project.

Adjunct at the Maritime University of Szczecin, Faculty of Economics and Transport Engineering. His fields of expertise include, among others, determination of organic and inorganic pollutants in surface waters and determination of organic and inorganic pollutants in the atmosphere. Participant in international and domestic projects.

## Kinga Kijewska, M.Sc.

Leader of the third work package (WP3). Responsible for the proper analysis of freight transport impact on the environment in Szczecin areas. Supports also activities for environmentally friendly freight transport in Poland. Responsible for the dissemination of information on the GRASS Project. The president of the Green Cities conference organization committee. Assistant lecturer at the Maritime University of Szczecin, Faculty of Economics and Transport Engineering. Ph. D. candidate at University of Szczecin, Faculty of Management and Economics of Services, whose doctorate thesis is focused on adaptation of city logistics innovative solutions for the Polish cities. The author and co-author of papers in the field of city logistics, telematics in transport and logistics, and development of partnership in transport systems. Investigator in international and domestic projects.

## Aleksandra Łapko, MSc. Eng.

Responsible for the dissemination of information about the GRASS Project by the web-site and other media. Supports the proper implementation of the particular work packages. The member of the Green City conference organization committee.

Assistant lecturer at the Maritime University of Szczecin, Faculty of Economics and Transport Engineering. Ph. D. candidate at the University of Szczecin, Faculty of Management and Economics of Services, whose doctorate thesis is focused on transport problems in tourism. The author and co-author of many papers in the field of: city logistics, development of partnership in transport systems and tourism.

### *Project Partner - The Institute of Transport Economics of Oslo*



*The Institute of Transport Economics (TOI) is a research centre established in 1964, which employs 70 scientists: economists, sociologists, geographers, psychologists and engineers.*

*Its activity includes interdisciplinary applied research and implementation of solutions for: road, rail, sea and air transport, urban logistics, environmental protection and road safety. The Institute participated in over 70 projects implemented under the European Union, among others, in SILVIA, IMMORTAL, IN-SAFETY, EURO-ACCES, PROLOGUE, COFRET, OPTIC, STRAIGHTSOL.*

## Olav Eidhammer, M.Sc.

Leader of the second work package (WP2). Responsible for the state of the art review and classification of the best world practices in environmentally friendly urban freight transport, and for the surveys in Oslo concerning the requirements for sustainable urban freight transport. Supports the pilot experiments to be conducted in Szczecin.

Project manager and staff member of many TOI's research on EU's 4th, 5th, 6th and 7th Framework Programme. Research activities are mainly connected to competitiveness of transport and logistics systems: urban freight transport, e-commerce, short-sea shipping, freight terminals, intermodal and road transport and forwarding.

## Bjorn Gjerde Johansen, M.Sc.

Responsible for second work package (WP2) implementation in Norway and for analysing the results. Supports modelling and pilot experiments to be conducted in Szczecin. Supports the proper dissemination of information about the Project.

Involved in several EU financed projects conducted by TOI from 2010 to 2013, concerning transport and logistics. His fields of expertise include, among others: urban freight transport, freight terminals, intermodal and road transport.

## Bjorn Brevik Wangsness, M.Sc.

Supports the implementation of the second work package (WP2). Responsible specifically for preparation of the guide for efficient, environmental urban freight transport in Szczecin and Oslo based on good practices. Staff member in several national and international projects conducted by TOI focused towards solutions for sustainable logistics, both regarding operational and transport policy issues. Specialized in preparing professional evaluations and cost analysis.

## GRASS Project administrative and technical staff:

### Karolina Teresa Skierkowska, M.Sc.

Responsible for the proper implementation of the GRASS Project in the administrative and financial matters.

Experienced in work related to the acquisition of EU funds and the implementation of the national and international projects.

Trained as a chemical technologist specializing in technologies used in environmental protection.

### Dawid Kijewski, technician

In the GRASS Project, responsible for technical support in the implementation of all work packages and, in particular, cooperation with the research team in the implementation of the measurements taken with the motion measurement device and further development of the results. Student of the third year in the Faculty of Economics and Transport Engineering of the Maritime University of Szczecin at the specialization of Management of Production Quality and Integrated Transport.