



Dear Reader,

I am pleased to share with you the second newsletter of the NOVELOG project!

The NOVELOG project has been up and running for over a year with lots of interesting developments!

The 2nd issue of the NOVELOG e-newsletter features the major achievements and key actions of the project since the first Newsletter. The key concept of the NOVELOG project is to initiate and enable city logistics policy formulation and decision-making as part of a city's sustainable urban mobility planning, and to support implementation and take up of appropriate policies and measures. In working towards achieving these goals, NOVELOG has managed to use the data collection framework for the collection of UFT data for the pilots and case studies to assess the 'as-is' situation.

As NOVELOG is preparing for the launch of the pilots and case studies, two of the Tools promised have been completed. The first to understand and assess the current needs and trends in Urban Freight Transport, and the second to help cities assess the implementation of city logistics measures and interventions.

This second tool is based on a modular integrated evaluation framework for city logistics that is able to portray the complexity of the life cycle of UFT systems. NOVELOG has also held two open training workshops for these tools in Bologna and Graz.

The next 6 months will be very busy for NOVELOG with the start of the pilot and case studies activities, the development of the 3rd Tool and Open Workshops in several cities. So keep your eyes out for the announcement of the events!

## Stay tuned and enjoy your reading!

**Georgia Ayfantopoulou**

NOVELOG Coordinator

Twenty eight partners from all over Europe have joined forces to push research and innovation in urban freight and city logistics



# Graz City Workshop: Challenges for implementing sustainable city logistics

The exchange of solutions for goods delivery in city centres was the focus of the NOVELOG workshop ‘Challenges for implementing sustainable City Logistics’, gathering more than 70 experts from 15 countries in the City Hall of Graz, (Austria, 20th July 2016).

The event was opened by Mr. Mario Eustacchio, councillor for traffic at the Graz City Council. The city of Graz, an active partner of the NOVELOG project, demonstrated successful examples of urban delivery solutions and plans, such as the **SmartCityGraz** project (<http://www.smartcities.at/city-projects/smart-cities-en-us/smart-future-graz-en-us/>) connecting smart cities with smart logistics and producing new five to ten year development plans, which have a strong impact on mobility in urban areas.

Knowledge was exchanged with the invited cities of **Padua** and **Rome** (Italy), **Barcelona** and **Madrid** (Spain) and **Copenhagen** (Denmark). Mediated approaches were presented, including environmentally friendly and traffic compatible goods delivery systems. In addition, numerous representatives of logistics companies presented their ideas and needs for city centre deliveries and Smart City development areas. While lively interaction took place between representatives from logistics companies and delegates from European municipalities eager to discover the needs and

innovative solutions proposed by private logistics stakeholders. For example, the city of Copenhagen has built a very successful open model called **Freight Network**. *‘It is up to the freight stakeholder who joins the Network to provide the solutions in a way that the city hall can facilitate the discussion’*, Ms. Helene Søgaaard stated. Indeed cooperation is the key concept firmly encouraged by the Commission: *‘Without cooperation and understanding among stakeholders it is not possible to implement long term solutions to urban logistics problems’*, says the NOVELOG coordinator Dr. Georgia Aifandopoulou, reaffirming a concept very dear to the European Commission.

During the workshop it was clear that the objectives and ambitions of the NOVELOG project, that are addressing the common problems in urban freight transport (UFT) through new cooperative business models and guidance for sustainable city logistics, are highly relevant.

**All presentations, pictures and the agenda can be downloaded at: <http://novelog.eu/downloads/>**

## Home deliveries system for small shops and logistics hub in Graz

The city of Graz is the capital of the Province Styria and has almost 300.000 inhabitants and 130.000 commuters crossing the city borders every day. Innovative sustainable mobility solutions are already in place, however the delivery of goods is still an unsolved issue.

Within the EU-project NOVELOG, different UFT solutions will be realised:

- **Concept for a logistics hub near the city centre**
- **Extension of the existing B2C-delivery service “bring me” to more shops and to a larger area**
- **Concept for a sustainable, environmental friendly logistic in new housing areas and its possible implementation**

The inner city of Graz is one of the best-preserved city centres in Central Europe and a World Heritage Site, many shops and restaurants are located there and the streets and places are very narrow. Presently, there are restrictions for freight deliveries, as limited access

(time slot from 5:00am to 10:00am) and limited weight (prohibited for vehicles up to 7,5 tons). Since there are a lot of different freight companies, the deliveries are mostly uncoordinated and therefore the loading capacities are not fully used. This problem could be solved by implementing a logistics hub.

To be able to plan a hub in the city centre, it is necessary to know the current situation of freight transport in Graz, therefore data evaluation took place. An observation of delivery activities in the city centre (pedestrian zone) for a typical week, inquiry of the carriers, the shop-owners and the drivers who deliver directly to the city centre took place. Based on this data, a new logistics concept can be worked out.

## The NOVELOG Evaluation Tool

NOVELOG will produce four practical tools that could support the project's take-up impact in wider international city and industrial networks and beyond the project's lifetime.

The tools address essential issues related to urban logistics:

- **Understanding cities** ("where" and "for whom")
- **Toolkit** ("what")
- **Evaluation** ("why")
- **Guidance** ("how").

The **NOVELOG Evaluation Tool** formulates a multi-criteria multi-stakeholder decision making process, which facilitates the establishment and combination of objectives, performance criteria and indicators, and relevant weights to reveal stakeholders' preferences.

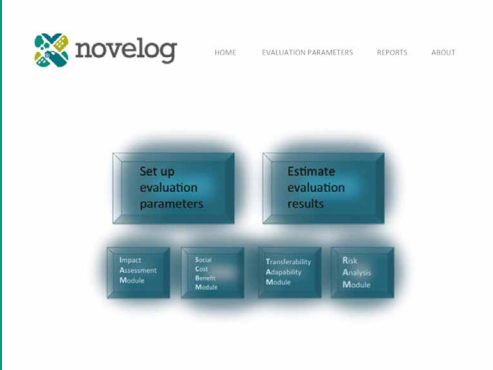
The Tool is composed of 137 indicators that are grouped into seven impact areas of a life cycle-based sustainability framework. The goal is to promote and support the selection of (more or less) sustainable measures/policies in logistics within urban areas. Each stakeholder is taken through a user-friendly process to select the indicators that fit to each city case and perform a holistic assessment of the proposed measure/policy. Pre-defined weights stimulate the stakeholders' engagement in the decision-making process and result in consensus building within each city.

The output of the Evaluation Tool is the integration of all indicators addressed in all impact areas, and the formulation of a **Logistics Sustainability Index (LSI)** for each measure/policy tested, to ensure accurate estimation of the solution's sustainability. This LSI depicts not only the overall performance of the measure/policy implemented in a city, but also the degree of objectives' achievement, and the possibility for further improvement.

The user may also use the Evaluation Tool to receive more specific results by running any of the three modules embedded in the tool:

- 1) **Social Cost Benefit Analysis**
- 2) **Transferability and Adaptability**
- 3) **Risk Analysis.**

Data collection and estimation are facilitated by the Impact Assessment Module, and the behavioral modeling. Useful guidance on corrective actions and further steps towards the formulation of a Sustainable Urban Logistics Plan (SULP) are also provided, upon user request.







### Interview

## Mag. Siegfried Nagl

Mayor of the city of Graz

“Mobility will always be part of city logistics, as people and goods need to get from A to B. When talking about mobility, it is also important to talk about sustainability, reduction of fossil-based energy and the provision of renewable energy. Focusing on an ecological future for the city of Graz, there are a lot of innovative ideas which bring us closer to the target of becoming a more sustainable city.”



### Interview

## Mag. Mario Eustacchio

Councillor for traffic at the Graz City Council

“Although there are many shops and restaurants located in the city centre of Graz, the areas for loading and unloading goods are limited and freight distribution significantly affects congestion and pollution within the city. Therefore, it is planned to refine the strategy of the city of Graz concerning freight traffic. It is important to find sustainable mobility solutions and make Graz fit for the future by providing the right answers for the next generations.”



### Interview

## Rolf Hadolt

Managing director Global Express

“Together with the city of Graz and the EU-project NOVELOG, we developed a service for the inner city of Graz to carry out low-emission city logistics: An E-van works as a “mini-hub” and e-cargo bikes deliver the last mile to the customers. With the help of this electric vehicle, it is possible to reduce traffic and CO<sup>2</sup>-emission when delivering to the inner city.

I think the idea of implementing a hub near the city centre is very good and our company would like to participate. The hub should be operated by a neutral company, so all different freight forwarders will be treated equally.”

# Synergies and cooperation: **NOVELOG and the CIVITAS Community**

The European Commission explicitly requested all the CIVITAS projects coordinators and dissemination managers to explore the areas of cooperation among projects. The 4 CIVITAS Urban Freight projects (CITYLAB, NOVELOG, SUCCESS, U-TURN) are identifying concrete topics of mutual interest, common products and outcomes, and actions to be jointly taken.

## Joint participation at the 2016 CIVITAS Forum

(Gdynia, Poland – 28-30/09/2016)

The four projects will join forces to participate in important external events. For the second year in a row, the projects will share a stand at the CIVITAS Forum, taking place in Gdynia (Poland) this year. Moreover, the projects will give presentations during the sessions “Urban freight logistics: latest development from the CIVITAS projects” (CITYLAB, NOVELOG, U-TURN) and “New perspectives of urban freight logistics” (SUCCESS, U-TURN).

See more here: <http://civitas.eu/content/civitas-forum-conference-2016>.

## Organisation of joint events

On the 26th of May 2016, the CIVITAS Urban Freight projects CITYLAB and SUCCESS organised a joint event in Paris, namely ‘**Innovative Urban Freight Management Systems Symposium**’ (see p.6, NOVELOG in external events).



**SAVE THE DATE: 19/10/2016**

## Rome City Workshop ‘Urban Freight Distribution: Current Challenges & Future Goals’

The ‘NOVELOG Rome Workshop’ is the second of six NOVELOG city workshops.

The workshop will bring together stakeholders from Rome and other European cities, in order to explore new solutions to improve the performance of city logistics through an enhanced public/private cooperation. Representatives from European local authorities and the industry will present and discuss their experiences on solutions implemented, examine possibilities of

transferability and solution adoption by other cities, and identify successful business models and evaluation of interventions.

Check the NOVELOG website here (<http://novelog.eu/event/novelog-rome-workshop>) to learn more about the event, to see the agenda and to register.

# NOVELOG in external events: TRA, CSUM, ECOMM, CITYLAB & SUCCESS Symposium

## CITYLAB & SUCCESS 'Innovative Urban Freight Management Systems Symposium' (Paris, France)

The CIVITAS Urban Freight projects CITYLAB and SUCCESS organised a joint event in Paris (26 May 2016), the 'Innovative Urban Freight Management Systems Symposium', to discuss the latest examples of urban development from the city of Paris. Polis, dissemination partner of the project, and four NOVELOG cities (Graz, Mechelen, Turin, Gothenburg) attended the event and took advantage of the favourable environment to network and to learn more about other UF experiences.

**More information on this event is available on the SUCCESS website: <http://www.success-urbanlogistics.eu/innovative-urban-freight-management-systems>.**

## 3rd Conference on Sustainable Urban Mobility (Volos, Greece)

The NOVELOG Special Session 'City Logistics in an era of change' (in the framework of the 3rd Conference on Sustainable Urban Mobility in Volos, Greece, 26-27 May 2016) was attended by 40 participants. The session focused on city logistics and sustainable urban mobility concepts in urban, interurban and rural areas, concentrating on the experience of both Greece (Athens and Thessaloniki) and Austria (Graz and surrounding interurban and rural areas in the region of Styria). The moderators and main presenters were Mr. Ablasser and Mr. Koenig from Graz and BIM respectively, whereas the Athens pilot was presented by Sofia Bouki (TRAINOSE) and a case study from Thessaloniki was presented by Michael A. Gogas (University of Thessaly - UTh).



## 6th European Transport Research Conference (Warsaw, Poland)

The 6th European Transport Research Conference (TRA) 'Moving Forward. Innovative Solutions for Tomorrow's Mobility' took place in Warsaw 18-21 April 2016. On Thursday 21 April, Giacomo Lozzi from Polis presented the NOVELOG approach for supporting sustainable UFT planning & management, at the European Commission stand.

## 2016 ECOMM Conference (Athens, Greece)

Finally, NOVELOG was present at the 2016 ECOMM Conference 'Smart Solutions for People and Cities' in Athens (1-3 June 2016) and had a stand in the Exhibitors area. The attendance of the conference was an occasion to network with other delegates representing sustainable mobility initiatives around Europe.



# Project in the spotlight: The FREVUE project



FREVUE aims to prove that the current generation of electric vans and trucks can offer a viable alternative to diesel vehicles.

By exposing over 70 Electric Freight Vehicles (EFVs) to the day to day rigours of the urban logistics environment, FREVUE aims to prove that the current generation of electric vans and trucks can offer a viable alternative to diesel vehicles, particularly when combined with state of the art urban logistics applications, innovative logistics management software, and with well-designed (local) policy.

FREVUE established demonstrators in eight of Europe's largest cities. The project started in 2013 and will run until February 2017. It received funding from the European Union's FP7 programme.

**More information on the project can be found here:**  
[www.frevue.eu](http://www.frevue.eu)



## Upcoming events

- **CIVITAS FORUM Conference 2016**  
“Shaping the mobility of tomorrow”  
28-30 September 2016, Gdynia, Poland  
<http://civitas.eu/content/civitas-forum-conference-2016>
- **23rd ITS World Congress**  
“ITS - Enhancing Liveable Cities and Communities”  
10-14 October 2016, Melbourne, Australia
  - **NOVELOG special session**  
“Knowledge and understanding of urban freight distribution and service trips”  
<http://www.itsworldcongress2016.com/>
- **NOVELOG Rome Workshop**  
19 October, Rome, Italy  
<http://novelog.eu/event/novelog-rome-workshop/>
- **VREF Conference on Urban Freight 2016**  
“Plan for the future - sharing urban space”  
17-19 October 2016, Gothenburg, Sweden  
<http://www.chalmers.se/en/centres/lead/urbanfreightplatform/vrefconf16/Pages/default.aspx>
- **Polis Conference 2016**  
“Transport innovation for sustainable cities and regions”  
1-2 December 2016, Rotterdam, the Netherlands  
<http://www.polisnetwork.eu/2016conference>
- **NOVELOG Athens Workshop**  
November/December 2016, Athens, Greece



## NOVELOG consortium

The NOVELOG consortium comprises a variety of experts in the field of urban freight transport, ensuring the knowledge of the academic sector, the experience of cities, the expertise of consultants and the multiplier effect of European networks.



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## For further information

[www.novelog.eu](http://www.novelog.eu)

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