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**Master in SMART transport and LOGistics
for cities - SMALOG**
585832-EPP-1-2017-1-IT-EPPKA2-CBHE-JP



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Final Conference of the SmaLog Project

ERASMUS+ PROGRAMME
Project Number: 585832-EPP-1-2017-1-IT-EPPKA2-CBHE-JP

Master in SMART transport and LOGistics for cities / SMALOG

Final Conference of the SmaLog Project

O. M. Beketov National University of Urban Economy in Kharkiv, 5th of October 2021,
Kharkiv, Ukraine

Venue: Marshala Bazhanova str. 17, Kharkiv



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1. Project Final minutes

Place: O. M. Beketov National University of Urban Economy in Kharkiv, Marshala Bazhanova str. 17, Kharkiv

on-line: Microsoft Teams, Ukraine time zone link to the conference: <https://cutt.ly/zEA3I3w>
5th of October, Kharkiv, Ukraine

Meeting attendees:

Online Participation

Institution	City	Participant Name
P1 - University of Rome Tor Vergata - UNITOV	Rome	Orazio Schillaci, (Rector, Grant Holder of SMALOG)
		Antonio Comi (Coordinator)
		Umberto Crisalli
		Antonio Polimeni
		Gianluca Mattarocci
		Gianfranco Tarquini
		Alma Orazi
P2 - Sapienza University of Rome - UNIROMA	Rome	Luca Persia
		Anastasia Azarko
P3 - O. M. Beketov National University of Urban Economy in Kharkiv - NUUE	Kharkiv	Oleksandr Rossolov
P4 - Lviv Polytechnic National University - LPNU	Lviv	Taras Postranskyy
		Yevchuk Yurii (Student)
		Gits Maryan (Stakeholder)
		Yurii Roiko
P5 - Zhytomyr State Technological University - ZSTU	Zhytomyr	Volodymyr Hilevych
		Kateryna Bondarenko (Student)
		Samarin Oleg (Stakeholder)
		Ruslana Kolodnytska

Kharkiv, 5th of October 2021



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P6 - National Transport University - NTU	Kyiv	Olga Kunytska
		Viktor Danchuk
		Vitalii Svatko
		Yevheniia Shapenko
		Alexander Kosharny
		Usachov Vladislav (Stakeholder)
		Vladimir Vorobyov (Stakeholder)
		Vitalii Boiko (Stakeholder)
		Liydmila Nagrebelna (Stakeholder)
P7 - Georgian Technical University – GTU	Tbilisi	Ledi Dzneladze
		Temur Ugulava
P8 - Batumi State Maritime Academy - BSMA	Batumi	Teona Tedoradze
		Roman Mamuladze
		Guladi Tkhilaishvili
		Mamuka Baramidze
		Medea Kavtaradze
		Meri Gabaidze
P10 - Institute of Market Problems and Economic & Ecological, Research of the National Academy of Sciences of Ukraine - IMPEER	Odessa	Svitlana Ilchenko
SmaLog Project Officer, EACEA		Belen Enciso
National E+ Officer Ukraine		Svitlana Shytikova
National Erasmus+ Office Georgia		Lika Glonti
Guests		Vitalii Svatko
		Enrico Dell'Elce
		Sergio Pasquantonio (Ospite)



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Physical Participation

Institution	City	Participant Name
P3 - O. M. Beketov National University of Urban Economy in Kharkiv - NUUE	Kharkiv	Sukhonos Maria (Vice-Rector of NUUE)
		Maria Osinska (International Office Coordinator of NUUE)
		Oleksii Lobashov
		Kateryna Vakulenko
		Maria Olkhova
		Dmytro Roslavytsev
		Yevgen Kush
		Iryna Tkachenko
		Andrii Galkin
P4 - Lviv Polytechnic National University – LPNU	Lviv	Andrii Potapenko (Stakeholder)
		Mykola Zhuk Volodymyr Kovalyshyn
P5 – Zhytomyr Polytechnic State University - ZSTU	Zhytomyr	Beherskyi Dmytro
		Vasyl Mamray
		Kravchenko Oleksandr
		Artur Makhno
P6 - National Transport University-NTU	Kyiv	Oksana Gulchak
		Yanishevskiy Serhii
		Alisa Shevchenko
P09 - Silesian University of Technology, Poland – SUT	Katowice	Aleksander Sładkowski
P11 - Hochschule Wismar, University of Applied Sciences: Technology, Business and Design – HSW	Wismar	Norbert Gruenwald

During the Conference, the following topics were covered by the discussion:

- Topic 1: Welcome and Opening Session;

SESSION 1: FUTURE CHALLENGES RELATED TO SMART TRANSPORT AND LOGISTICS IN CITIES

- Topic 2: Lectures from EU partners:
 - ✓ The role of emerging information and communication technologies (e-ICTs) in improving travel experiences (*Prof. Antonio Comi, UNITOV*);



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- ✓ ICT and ITS in road safety (*Prof. Luca Persia, UNISAPIENZA*);
- ✓ Preparing for the Future of Engineering Education (*Prof. Norbert Gruenwald, HSW*)

SESSION 2: SMALOG RESULTS

- Topic 3: SMALOG project: an overview (*Prof. Antonio Comi, UNITOV*)
- Topic 4: Developing and implementing SMALOG at PC HEIs (Master programme and material; Results of quality monitoring):
 - NUUE
 - LPNU
 - NTU
 - ZSTU
 - GTU
 - BSMA
- Topic 5: Implementation of a double degree program in cooperation with the Silesian University of Technology (*Prof. Aleksander Śladowski, SUT*)

SESSION 3: THE EXPERIENCE OF SMALOG BENEFICIARIES IN UKRAINIAN AND GEORGIAN UNIVERSITIES

- Topic 6: Staff Experience from UA and GE Universities (*one member staff from each PC HEIs*)
 - NUUE
 - LPNU
 - NTU
 - ZSTU
 - GTU
 - BSMA
- Topic 7: Student Experience from UA and GE Universities (*one student (graduated or enrolled in SMALOG) from each PC HEI*):
 - NUUE
 - LPNU
 - NTU
 - ZSTU
 - GTU
 - BSMA

ROUNDTABLE DISCUSSION

- Topic 8: SMALOG Futures - This high level discussion involved representatives from universities in Europe, Ukraine and Georgia, as well as from labour market (including associated partners), addressing urban issues with a view to how education can support innovation and satisfy city needs in partner countries: Foster collaboration and cooperation among partners; enlarging SmaLog network; Planning future teaching and research activities for meeting local city needs.



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Below for each topic, the main issues discussed, and the actions agreed are reported.

Topic 1: Welcome and Opening Session

Prof. Oleksii Lobashov opened the Conference and welcomed all participants.

Vice-Rector, Prof. Maria Sukhonos welcomed all participants on behalf of O. M. Beketov National University of Urban Economy in Kharkiv. **Maria Sukhonos** noted that the project has a significant impact on the institutional, professional and individual levels. The results obtained make a significant contribution to the University's Internationalization Strategy. **Maria** also thanked the project coordinator prof. Antonio Comi, representatives of EU Universities (*Prof. Luca Persia, UNISAPIENZA, Prof. Norbert Gruenwald, HSW, Prof. Aleksander Sladkowski, SUT and others*), partners of UA/GE Universities, as well as the UA/GE National Offices for their support.

Rector of the University of Rome Tor Vergata, **Prof. Orazio Schillaci**, Grant Holder of SMALOG, welcome the participants, introduced the project SMALOG, thanked the partners for their efforts in reaching the planned outcomes pointing out the high feeling of collaboration implemented which allowed also to overcome the issues caused by covid-19 pandemic.

Dr. Belen Enciso, SMALOG, Project Officer, EACEA welcomed all participants, thanked for the invitation. For her, it was a very great opportunity to participate in the Final conference of the project, to see the results of the project, even remotely. Dr. Belen Enciso indicated on the role of the EACEA in the developing and the implementation of the project, on the financial verification of the expenditure of the project and the monitoring of the project implementation of the agency.

The main aim of the Project Officer on a Capacity Building Action is to revise that the project was implemented in the best possible way despite of the pandemic challenges, bureaucratic challenges, all challenges in the framework of mobility tool. Dr. Belen Enciso gave the general information about the new Erasmus+ calls, and about the Capacity Building in the next phase.

Project Officer wished to continue the good work that the team done until now towards the next stage of the Capacity Building projects, congratulated with the projects' achievements despite all the difficult situations. At the end of the speech, Dr. Belen Enciso wished the nice end of the project.

Dr. Svitlana Shytikova, National E+ Officer Ukraine welcomed and congratulated with the success story, obtained results and achievements of the SmaLog Project all the partners, wished to continue open interlines of students, inspired them by the international opportunities supporting by the EU and new generation of Erasmus+. She wished the following implementation of the results, shearing the experience and best practices and continuing cooperation. She suggested to disseminate widely best practices and become stronger together with EU union.

Dr. Lika Glonti, National Erasmus+ Office Georgia thanked the Dr. Svitlana Shytikova, Dr. Belen Enciso and joined to congratulation all the team. National Erasmus+ Office Georgia very proud of the SmaLog project.



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SESSION 1: FUTURE CHALLENGES RELATED TO SMART TRANSPORT AND LOGISTICS IN CITIES

Topic 2: Lectures from EU partners

- ✓ The role of emerging information and communication technologies (e-ICTs) in improving travel experiences (*Prof. Antonio Comi, UNITOV*);
- ✓ ICT and ITS in road safety (*Prof. Luca Persia, UNISAPIENZA*);
- ✓ Preparing for the Future of Engineering Education (*Prof. Norbert Gruenwald, HSW*)

SESSION 2: SMALOG RESULTS

Topic 3: SMALOG project: an overview (*Prof. Antonio Comi, UNITOV*)

Prof. Antonio Comi (coordinator of the project) presented the project, and in particular focusing and opportunities offered to students and staff, and the achievements obtained. In particular, SmaLog strengthened the role of research in managing smart transport and logistics in cities on an evidence-base in Ukraine and Georgia, and thus transferred to Ukraine and Georgia the most recent knowledge and good practices developed in Europe as well as worldwide in the field of smart mobility. To capture the new challenges of the educational process, six curricula (with advanced laboratories) were developed and currently are fully working in each partner country institutions.

Then, Prof. Antonio Comi introduced the tribute to our colleague Manfred Ahn. Prof. Norbert Gruenwald said warm words about his colleague and good friend. The SmaLog Team honored the memory of Prof. Manfred Ahn, remembered his participation in the project in memory of him projecting a small video reporting his excellent collaboration in SmaLog.

Topic 4: Developing and implementing SMALOG at PC HEIs (Master programme and material; Results of quality monitoring)

One delegate from each PC HEIs showed the benefits received from SmaLog, the innovations promoted (services for students: out-country mobility, availability of advanced laboratory, opportunity to meet foreign experts, grant for studies, accommodation, for teachers/trainers: improving their skills and meet the request of new education demand; for researchers: improving their network and being part of a worldwide scientific communities, pushing their participation in high impacting journals, etc.; for labour market: finding more competences and up-to-dated experts for their new challenges in the society and so on).

Topic 5: Implementation of a double degree program in cooperation with the Silesian University of Technology (*Prof. Aleksander Sladkowski, SUT*)

Prof. Aleksander Sladkowski, SUT presented the main conditions of cooperation with the Silesian University of Technology for implementation of a double degree program in PC HEIs.



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SESSION 3: THE EXPERIENCE OF SMALOG BENEFICIARIES IN UKRAINIAN AND GEORGIAN UNIVERSITIES

Topic 6: Staff Experience from UA and GE Universities (*one member staff from each PC HEIs*)

One delegate from each PC HEIs shared their experience and outcomes. Representatives of the PC HEIs talked about their training activities, which were implemented in the teaching materials, SmaLog manual and distance learning lessons for teachers. The researching activity gave the possibility to increase the research network with the following cooperation in the joint publications (Web of Science, Scopus), taking part in the new project: Fulbright Visiting Scholar 2019-2020 (Oleksander Rossolov, NUUE, Kharkiv); “Development of Sustainable Urban Mobility Plan (SUMP) for Kharkiv” (GIZ).

The staff is infinitely grateful to the SmaLog project and our European partners for the opportunity that every teacher dream of: work together with European colleagues; take and use the experience of conducting scientific research; the possibility of joint publications in high impacting journals. We were able to look at the experience of interaction with employers, which is very important for PC HEIs at the present stage of development and improving the quality of education, which must meet the demands of the labor market today.

Topic 7: Student Experience from UA and GE Universities (*one student (graduated or enrolled in SMALOG) from each PC HEI*)

One delegate from each PC HEIs shared their possibilities and experience taken in the SmaLog Project and during the SMS: new knowledge, new meetings, new experience, new international eucaines and etc. Acquired skills gives the opportunities to be more successfully on the labour market.

Students talked huge thanks to their teachers, especially to the EU professors and lectures and for all SmaLog Team.

ROUNDTABLE DISCUSSION

Topic 8: SMALOG Futures. How education can support innovation and satisfy city needs in partner countries

Prof. Antonio Comi was the chairmain of round table discussion. He presented the main idea of the discussion. The discussion, among the participants of the conference and the representatives of the labuor market included the Associated partners, Transport companies, pointed out the urban issues and how we can manage and adapt our educational parts and support the innovations. In particular, how high education institutions can accomplish society requests in smart transport and logistics towards more sustainable and livable cities. Antonio Comi suggested to open the discussion and proposed the Kharkiv colleagues to manage the round table inviting speeches from the representatives of the Labor market and the participants of the Conference.

Prof. Kateryna Vakulenko welcomed and introduced the representatives of the stakeholders and associated partners, who joined to the conference physically or remotely. Then Kateryna asked to share there opinion how the education in SmaLog direction can support in city needs. Representative of the **Associated partner LLC “KOMKON traffic” (Kharkiv) Angrii Potapenko** were presented on the meeting physically, he was started the discussion.

Andrii Potapenko welcomed the participants of the meeting, appreciated possibility to take part of SmaLog project. Then, Andrii presented the direction the working of LLC “KOMKON traffic” and



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pointed out that especially years ago company ran into a problem was the limited staff involved with the knowledge about the benefit from a new approach for traffic control for transport organization. We were not ready. That is way, it is extremely important to have specialists, specially educated here in Kharkiv and in the other UA cities, who can bring a new knowledge, the understanding the new approaches. It will push transport industry of all UA cities to have all the benefits. Andrii Potapenko indicated that due to the participation in SmaLog project and thanks to the achieved results, knowledge and experience of staff and students Transport systems and Logistics Department NUUE take part in the different project of the City Council in the area of improving the transport systems of the city, development of a parking system the city and ect. At the end, Andrii thanked for the collaboration and expressed hope for future cooperation with the SmaLog alumni, students and the Transport systems and Logistics Department NUUE.

Oleg Samarin (*Chief Specialist of the Transport and Communications Department of the Zhytomyr City Council*) took the floor to continue the discussion. He said that his Transport and Communications Department participated in the development and the implementation of the education and professional programmes of preparation the specialist in transport of the ZPSTU. Oleg Samarin said that the Transport and Communications Department of the Zhytomyr City Council have already started the implementing the plan of sustainable urban mobility Zhytomyr 2030. Currently, they are developing a new transport model of the Zhytomyr City. So, the city really interested in the specialists, who can study the transport situations and who have innovation knowledge for improving the transport systems. Dr. Oleg Samarin pointed out that the Department and the city especially are interested in the specialist who can use the modern equipment and software for simulation the road traffic, systems of public transport, organization of the road traffic, analyzing the capacity of the transport systems and etc.

Alma Orazi (*Erasmus+ office UNITOV*) joined to the meeting. Firstly, Alma said that it is really pleasure for her to take part in the conference and to be involved in the project to the beginning. Alma expressed hope for the new project from the SmaLog Team and future collaboration.

Then, the **Gits Maryan** (*Judicial expert of the laboratory of automotive research (AMR) of the Lviv Research Institute of Forensic Expertise*) continued the discussion of the round table. Maryan would like to emphasize the relevance of the new programme SmaLog. He indicated that this programme is very important for the western part of Ukraine.

The representatives of communal enterprise "Center of traffic organization" (Kyiv) had a possibility to take part in the discussion. **Vlad Usachev** said that they followed the programme SmaLog, graduates of the Transport University and this program have already worked at their enterprise. He drew attention to the fact that at present the situation with road traffic specialists is difficult. In the field of transport infrastructure, there is a great shortage of specialists, so it is important to develop this area in smart transport in the use of intelligent systems, in the use of automated control systems not only in Kiev but also in Ukraine as a whole. Dr. Vlad Usachev stressed that the company is ready to cooperate to develop the direction of a smart city.

Prof. Teona Tedoradze (**BSMA**) spoke on behalf of the Georgian employers . Teona said that BSMA have a discussion with the "Batumi Autotransporte" enterprise and with the Maritime agency using the laboratory, which were created due to SmaLog project, using the knowledge of specialist in logistics. These specialists are really actual for Batumi, because in the present time the city development the new logistics system, which will include the different types of transport and connected with a Turkey border. Batumi is a transport and logistic hub for the Georgia and for the region, so it is very important to develop the write logistic strategi and the development plan. So, they are planning to attract the EU partners, all



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SmaLog Team, who will be interested, to be part of working group. Teona stressed, that such will testify to the sustainability of the results of the project.

Prof. Temur Ugulava (GTU) spoke on behalf of the Georgian employers. Tbilisi stakeholders were quite happy and interested on the SmaLog programme, they were involved in the curriculum developing. Tbilisi City Hall is one of the main stakeholders and one of the developing offices. The reorganization of the transport systems in Georgia is one of the main priorities. So, the specialists find their job easily. Collaboration between GTU and stakeholders are led to sustainable.

Prof. Antonio Comi thanks to the stakeholders for there opinions. Then **Prof. Antonio Comi** gave the floor to the colleagues from the Tor Vergata University.

Prof. Gianluca Mattarocci joined the discussion. He said that is a pleasure to attend this meeting and have a look on the output of SmaLog project. Prof. Gianluca Mattarocci expressed his opinion on what is done in the project. He spoke on the relevance to integrate transport engineering knowledge with economic aspects. He brought to the table the opportunity to integrate SmaLog topic with city land use and in particular the financial real estates. Then, the new challenges is to renovate the methodologies for analyzing land use and transport interaction exploiting the opportunityies offered by telematics. Prof. Gianluca Mattarocci congratulated with the achieved results.

Prof. Antonio Comi gave his opinion regarding the topic of the discussion “How education can support innovation and satisfy city needs in partner countries” and summarize the Round table discussion and the Conference.