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

Master in SMArt transport and LOGistics for cities / SMALOG

Grant Agreement Number 2017-2893/001-001

System of UA&GE University
SmaLog teachers' skills upgrading

Training of UA&GE teachers in EU Universities

Programme Country (EU) Universities:

- University of Rome Tor Vergata – UNITOV (Italy)
- Sapienza University of Rome – UNIROMA1 (Italy)
- University of Applied Sciences Technology, Business and Design – HSW (Germany)
- Silesian University of Technology – SUT (Poland)

Project Acronym: SMALOG

Duration: 15/10/2017 - 14/10/2021

Project Coordinator: Unversity of Rome Tor Vergata (Italy)

Proposal full title: Master in SMArt transport and LOGistics for cities

Project number: 585832-EPP-1-2017-1-IT-EPPKA2-CBHE-JP

Document Title: Actvity report – Internship of Georgian and Ukrainian staff at Programme Country universities

Authors: Antonio Comi, Olga Kunytska and Antonio Polimeni.

Summary: Deliverable synthethises the activities performed during the internship at Programme country universities. It was held in October/November 2018 in Katowice (Poland), Wismar (Germany) and Rome (Italy).

Status: Final

Distribution: Public

Document ID: D.WP4.4

Date: October 14th, 2021

This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained

Overview

The EACEA funded the E+ project "Master in SMArt transport and Logistics - SmaLog" as an initiative for improving the educational supply in Ukraine and Georgia. SmaLog aims to support the modernization, accessibility and internationalization of the higher education field in the Partner Countries and to contribute to the cooperation between the EU and the Partner Countries. Therefore, the objectives of SmaLog was shortly synthetized in:

- to improve the quality of higher education and enhance its relevance for the labour market and society;
- to foster regional integration and cooperation across different regions of the world through joint initiatives, sharing of good practices and cooperation; these aims and objectives are addressed as:

  "SmaLog aims to support Local Universities to define Masters in smart transport and logistics for cities in order to modernize the higher education, meeting the national priorities of GE and UA. This process will be addressed through the cooperation of EU and GE/UA partners and provides to transfer the good practices for improving the quality of higher education. Therefore, the involvement of GE/UA students and academics in the EU network contributes to the building of international relationships".

The concept of a curriculum development initiative thereby seeks to obtain the co-operation of experts with already existing or just emerging experiences and expertise, and to transfer the best practices and EU knowledge in the topics of smart transport and logistics.

To reach the above objective, the key-role is played by lectures and trainers involved at partner country high educational institutions (HEIs). Therefore, SmaLog developed a well-structured plan for improving the skills of teaching staff through the development of learning/training platform and ad-hoc courses on smart transport and logistics (Annual Training Seminar on SmaLog issues). Besides, SmaLog will create a common knowledge among lectures on advanced themes of SmaLog modules.

Thematic focus

The thematic courses and activities organized in SmaLog focus on the following themes:

- methods and models for planning transport and logistics systems (1st annual meeting, Batumi, Sept 2018, DWP4.1);

- training/internship at programme country partners (October-November 2018);
- methods and models for tactical and operations control of transport and logistics systems (2nd Annual meeting).

This report resumes the activities developed within the training/internship activities showing the aim and results obtained.

The consortium

The Universities involved in SMALOG are 11 (4 Programme Country (EU) Universities and 7 Partner Country (UA&GE) Universities) as follows:

- P1, University of Rome Tor Vergata – UNITOV (Italy);
- P2, Sapienza University of Rome – UNIROMA1 (Italy);
- P3, O.M. Beketov National University of Urban Economy in Kharkiv (Ukraine)
- P4, Lviv Polytechnic National University (Ukraine);
- P5, Zhytomyr State Technological University (Ukraine);
- P6, National Transport University (Ukraine);
- P7, GEORGIAN TECHNICAL UNIVERSITY (Georgia);
- P8, Lepl Teaching University-Batumi State Maritime Academy (Georgia);
- P9, Silesian University of Technology – SUT (Poland);
- P10, Institute of Market Problems and Economical and Ecological Research (Ukraine);
- P11, University of Applied Sciences Technology, Business and Design – HSW (Germany).

CONTENTS

1 Introduction to Work Package 4

Training of 24 UA & GE teachers in EU Universities was held as part of the implementation of the WP4 project SMALOG.
Description and Tasks foreseen with Working Package 4 (development) are reported in Table 1, while Table 2 reports the activities developed.

The following is a detailed report on Training of 24 UA & GE teachers in EU Universities.

Table 1 - Work package 4: System of UA&GE University SmaLog teachers' skills upgrading

Description	WP4 focuses on teachers of SmaLog Master course skills upgrading. For this purpose International Network for distance learning courses in advanced SmaLog will be performed. NTU (P6) will be basic responsible for International Network creation and its further support. Possibility of teachers distance learning will allow to improve their knowledge in SmaLog without additional mobility and leaving their universities. Formation of target groups of teachers at UA & GE Universities will be made. After, these selected teachers will be retrained at the base of EU participants Universities. Every year at UA & GE Universities Training Seminars in appropriate directions of SmaLog (passenger, freight, traffic and smart transport) will be carried out. Analysis and improvement of the elaborated systems of teachers' skills upgrading on the basis of the recommendations given by its users will be made.
Tasks	To develop distance learning courses in SmaLog. To form target group of teachers for further probation at EU Universities. To train UA&GE teachers at the EU Universities.

Table 2 – Synthesis of tasks within Work Package 4

Activity title	Place	Description of the activity carried out
International Network for Distance Learning:		
Developing a platform for distance learning	http://do.ntu.edu.ua	A page of a remote course based on the Moodle platform has been created. The structure of the Distance Learning course was developed in accordance with the master's program of the SmaLog project. Learning materials (presentations of European partner universities) have been added to the distance learning site.
Setting up the lessons on the platform	http://do.ntu.edu.ua	The web platform will be updated and prepared and all material will be ready for teachers.
UA&GE project academic staff formation		
The formation of the target group of teachers for further probation at EU Universities	PC University (websites)	UA and GE partners defined the criteria for selecting teachers (target group). Target group includes representatives with high level of English language skills and professional background, including the academic performance of the candidate, relevant experience of teaching, willingness and appropriate attitude to teaching students according to rating assessment system at each universities. The target group for probation at EU universities is 24 teachers from all local universities. Criteria were defined. Call for teachers were launched: P3:http://k-tsl.com/smalog-project/ P4:http://lp.edu.ua/en/news/2018/selection-participants-internship-international-project-smalog-erasmus-ka2 P5:https://ird.ztu.edu.ua/2018/09/call-for-the-training-of-teaching-staff-in-eu-universities-within-smalog-project/ P6:http://www.ntu.edu.ua/en/selection-participants-internship/ P7:http://gtu.ge/Stmm/en/News/?ELEMENT_ID=11332 P8:http://bsma.edu.ge/main/page/1412/index.html
The training of the UA&GE teachers		
First Annual Training Seminar on SmaLog issues	Batumi	First Annual Training Seminar on SmaLog issues was held. Participants: 4 participants from each local UA&GE Universities. Lectures: 10 lectures from European universities. After the First Annual Training Seminar on SmaLog issues, the web platform is updated - materials of Seminar have been added. http://do.ntu.edu.ua/mod/folder/view.php?id=25
Training of 24 UA&GE teachers in EU Universities	Rome Katowice Wismar	UA&GE teachers from each PC University were participating in training at the base of appropriate EU Universities. 24 UA&GE teachers and 4 persons from each PC University. P3:2pers+P4:2pers +P7:1pers + P8:2pers to P1; P4:2pers+P5:1pers+P6:2pers +P7:1pers+P8:2pers to P11; P3:2pers+P6:2pers+P7:1pers to P2; P5:3pers to P9.

2 General information about training at European institutions

Training, as foreseen in the SmaLog original application, was held according to the Work Package 4.4 (*Training of 24 UA&GE teachers in EU Universities*) with the aim of introducing the Partner Country (PC) lectures to the advanced methods and models to use for analysing city transport and logistics in the era of Intelligent Transport Systems (ITS). Besides, they obtained knowledge and information for detailing and improving the syllabuses of the disciplines of the master's program "SmaLog" implemented.

Each Programme Country (ProgC) institution has specific skills and advanced competences in each smart city transport and logistics topic, therefore each trained lecturer has the opportunities to face with new teaching and research challenges together with European colleagues.

24 UA&GE lectures travelled and were charged to SmaLog grant and 4 further lectures from PC institutions cofounded their travels. In total, 28 lectures from PC Universities participated in two-week training at the four EU Universities.

2.1 Participant institutions

All the local universities, that implemented SmaLog master degree, participated in advanced training:

- O. M. Beketov National University of Urban Economy in Kharkiv – NUUE;
- Lviv Polytechnic National University - LPNU;
- Zhytomyr State Technological University - ZSTU;
- National Transport University - NTU;
- Georgian Technical University – GTU;
- Batumi State Maritime Academy – BSMA.

The host European Universities were:

- University of Rome Tor Vergata – UNITOV;
- Sapienza University of Rome – UNIROMA1;
- University of Applied Sciences Technology, Business and Design – HSW;
- Silesian University of Technology.

2.2 Host selection

The PC institution chose the hosting institution where to send their selected lecturers according to:

- initial distribution performed during the pre-analysis and reported in the project description (original application);
- priorities for the preparation of the syllabuses in the disciplines according to the implemented curricula based on the analysis and surveys performed during the first year of the project.

3 Academic staff formation in the local (PC) universities

Before the internship, all UA & GE Universities did staff selection procedure. The list of the documents of the selection procedure includes:

- the Call for the internship (this document was published at the web-sites of each local university); each participant to the selection was required of:
  - Motivation Letter;
  - Recommendation Letter;
  - Curriculum Vitae;
  - Proof of staff employment;
  - Passport copy;
- excerpt from the minutes of session of Department (voting paper for participants);
- Selection results.

A synoptic table on the selection procedures implemented is given in Table 3.

Table 3 – Synoptic table on the selection procedures implemented at PC institutions

PC University	The Call for the internship	Selection results (host institution, dates, selected lecturers)
O. M. Beketov National University of Urban Economy in Kharkiv – NUUE	http://k-tsl.com/smalog-project	University of Rome Tor Vergata 19.11.18-30.11.18 Yevhen Kush, Oleksandr Rossolov Sapienza University of Rome 12.11.18 – 23.11.18 Mariia Olkhova, Andrii Galkin
Lviv Polytechnic National University - LPNU	http://lp.edu.ua/en/news/2018/selection-participants-internship-international-project-smalog-erasmus-ka2	University of Rome Tor Vergata 19.11.18-30.11.18 Mykola Zhuk, Volodymyr Kovalyshyn Hochschule Wismar. University of Applied Sciences Technology, Business and Design 29.10.18 – 09.11.18 Volodymyr Hilevych, Taras Postranskyy
Zhytomyr State Technological University - ZSTU	https://ird.ztu.edu.ua/2018/09/call-for-the-training-of-teaching-staff-in-eu-universities-within-smalog-project/	Silesian University of Technology 05.11.18-16.11.18 Shuliakivskyi Volodymyr, Ilchenko Andrii, Mamrai Vasyl Hochschule Wismar. University of Applied Sciences Technology, Business and Design 29.10.18 – 09.11.18 Beherskyi Dmytro
National Transport University - NTU	http://www.ntu.edu.ua/en/selection-participants-internship/	Sapienza University of Rome 12.11.18 – 23.11.18 Olha Kunytska, Savchenko Lidiia Hochschule Wismar. University of Applied Sciences Technology, Business and Design 29.10.18 – 09.11.18 Oksana Hulchak, Roman Laputyn
Georgian Technical University – GTU		University of Rome Tor Vergata 19.11.18-30.11.18 Giorgi Doborjginidze, Teimuraz Ugulava Sapienza University of Rome 12.11.18 – 23.11.18 Giorgi Sisvadze
Batumi State Maritime Academy – BSMA	http://bsma.edu.ge/main/page/1412/index.html	Hochschule Wismar. University of Applied Sciences Technology, Business and Design 29.10.18 – 09.11.18 Vakhtang Bogvelishvili University of Rome Tor Vergata 19.11.18-30.11.18 Mamuka Baramidze, Konstantin Bolkvadze Hochschule Wismar. Universityof Applied Sciences

PC University	The Call for the internship	Selection results (host institution, dates, selected lecturers)
		Technology, Business and Design 29.10.18 – 09.11.18 Roman Mamuladze, Gulad Tkhilaishvili

Once the lecturers were selected, each participant, coordinated by local sending institution, developed and agreed the topics of the internship.

The internship project form includes information about:

- Staff Member;
- The Sending Institution;
- The Receiving Institution;
- Program of the internship.

Then, the internship project form (see Annex 1) were signed. Table 4 synthesizes the project agreed by each participant.

Table 4 – Synoptic table on the internship activity planned

University local	**Name and Surname** *(of traveller)*	**Module(s) of SmaLog is taught by each travelling teacher at his/her institution**	**The reason // Program of the internship** *(i.e. why the teacher wants to pass an internship at this university)*
P3 – O. M. Beketov National University of Urban Economy in Kharkiv - NUUE)	Yevhen Kush	Freight Transportation Simulation	To obtain theoretical knowledge and practical skills in: 1) Definition, classification and functions of freight node 2) Aggregate / disaggregate models consignment and logistics models 3) Assessing freight scenarios (Design of freight nodes. Freight transport planning)
	Oleksandr Rossolov	Integrated Transport Systems in City Logistics	To obtain theoretical knowledge and practical skills in: 1) Urban goods movements: integrated modelling 2) Routing and schedule models in case of last mile logistics; 3) Assessment of integrated transport systems: criterions, assessment methods, simulation scenarios
P4 – Lviv Polytechnic National University LPNU	Mykola Zhuk	Intelligent Transport and Urban Logistics Intelligent Transport Systems	Introduction to the process of simulation procedure of transportation process in cities using special program products. Methods for analysing and solving problems associated with urban logistics planning and management. Application of routing methods for cargo transportation in urban logistics.
	Volodymyr Kovalyshyn	Social and ecology efficiency of urban transport systems Traffic Flows Management in the City Center (part 1)	Introduction to the process of simulation procedure of transportation process in cities using special program products. Ways of introduction of optimal planning and application of effective management in the transport system. Methods for analysing and solving problems associated with urban logistics planning and management.
P7 – Georgian Technical University - GTU	Giorgi Doborjginidze	Freight Transport Simulation	To learn more about city freight transport, city logistics and freight transport simulation. Based on local experience to optimize the curriculum and syllabuses drafted and discuss the final version with P1. To learn more about the laboratory equipment and PTV software and their use in the learning process.
	Teimuraz Ugulava	Traffic Flows Simulation and Management; Integrated Transport System in City Logistics	Work intensively on traffic flow simulation tools (PTV). Work with G. Doborjginidze on the optimization of curriculum and syllabuses related to traffic simulation and city logistics.
P8 - BSMA	Teona Dzneladze	Freight Forwarding; International Transport	We have studied Tor Vergata University educational programs and modules via web-site and entirely

		Operations.	match to our essentials. We would like to study the goals and aims, contents and outcomes, compliances with Tor Vergata university Programs to BSMA. We would like to work with syllabuses and program with professors. We would like to share their knowledge, opinion and innovative approaches toward to modern transport systems.
	Mamuka Baramidze	Freight Forwarding; International Transport Operations.	We have studied Tor Vergata University educational programs and modules via web-site and entirely match to our essentials. We would like to study the goals and aims, contents and outcomes, compliances with Tor Vergata university Programs to BSMA. We would like to work with syllabuses and program with professors. We would like to share their knowledge, opinion and innovative approaches toward to modern transport systems.
P3 – O. M. Beketov National University of Urban Economy in Kharkiv - NUUE)	Mariia Olkhova	Smart Transport and Logistics for Cities	To obtain thorough knowledge and skills regarding: 1) city logistics and applications (ICT and ITS) namely solutions to urban freight problems, applications to different urban context in Europe and beyond, methods. 2) Evaluation and Comparison of Transportation System Projects, namely measures of effectiveness, evaluation tools (CBA, CEA, MCA), monitoring of the transport system, environmental Impact Assessment (EIA) and Strategic Impact Assessment (SEA). Road safety Impact Assessment (RIA) The key point is to learn and do exercises due to understand all specific technologies.
	Andrii Galkin	Smart Transport and Logistics for Cities Project	To obtain thorough knowledge and skills regarding: 1) Implementation of special software for freight and logistics calculation (exercises, projects, thesis); 2) Methods for urban logistics zoning for demand evaluation; 3) KPI for urban logistics: criterions, assessment methods and models evaluation; 4) Routing and schedule models in case of last mile logistics; The key point is to learn and do exercises due to understand all specific technologies.
P6 – National Transport University- NTU	Olha Kunytska	Integrated Transport Systems in City Logistics	The main goal is to get acquainted with European experience regarding the analysis of urban freight transport and to the city logistics management. To learn more such topics as: 1. Distribution centres and warehouses - warehousing problem in the city area, rational location determination. 2. E-commerce - trends, performances, infrastructures and delivery structure. 3. Urban goods movements: integrated modelling - the urban goods movement in city transit, constraints to urban goods movement.

			To learn more about the laboratory equipment, software, and their use in the learning process in the freight area.
	Savchenko Lidiia	Smart Transport and Logistics for Cities	The main purpose of the internship is to get acquainted with modern European methods of supply chain management in the city conditions using the principles of sustainable development. Private goals: 1) to get acquainted with software products capable of developing distribution routes taking into account traffic congestion; 2) familiarize yourself with the existing restrictions on the movement of trucks in the city, the requirements for them from the point of view of the environment; 3) learn to solve routing tasks using European IT technologies, including navigation systems.
P7 – Georgian Technical University - GTU	Giorgi Sisvadze	Smart Transport and Logistics for Cities; City Passenger Transport; Traffic Control	To learn about ITS and city passenger transport.
P5 - ZSTU	Shuliakivskyi Volodymyr	City Passenger Transport: Passenger Transportation Management, Routing Systems Simulation.	To get new advanced knowledge in subjects concerning the new SmaLog MSc Programme; study of new software as for modeling and processing of traffic flows, having an opportunity to visit local transport enterprises.
	Ilchenko Andrii	Traffic Flows Simulating and Management: Traffic Flows Simulation, Assessment Traffic Impacts.	To amend pedagogical skills and to obtain new practical knowledge in the SmaLog related subjects: Traffic Flows Simulation, Management and Assessment.
	Mamrai Vasyl	Smart Transport: Information Technologies in Traffic Management, Geo-information Systems in Transport.	To improve teaching skills and practical knowledge; to study GIS application related to transport technologies. To scrutinize new teaching methods of students training and more. To explore deeper MSc and PhD curricula in SmaLog related Programmes.
P4 – Lviv Polytechnic National University LPNU	Volodymyr Hilevych	Traffic Flows Simulating and Management Integrated Transport System in City Logistics	Introduction to traffic flow research methods. Determine the causes of transport problems, set tasks and solve them using the appropriate methods of scientific research. Definition and methods of application of perspective directions of modeling transport processes. Evaluating the effectiveness of the decisions taken.
	Taras Postranskyy	Human and Environmental Impacts, Safety and Sustainability (Part 1,2) Freight Transportation Simulation	Methods of data collection, aggregation and analysis of road traffic accidents. Analysis of road accidents and the choice of the most effective countermeasures. Road safety checks and identification of key aspects of impact. Define Road Safety management processes. Plan the road safety strategies for the short, medium and long term.

P6 – National Transport University-NTU	Oksana Hulchak	City Passenger Transport	It would be very useful to study the approaches of German colleagues on the methods of forming and modeling urban passenger flows, assessing the quality of urban transport systems (PTV Vision). To get new knowledge in determination of passenger travel time in the route system using PTV Vision. Coordination of various types of public transport using VISSUM. Get new experience in the field of scientific and practical skills.
	Roman Laputyn	Smart Transport; Traffic Flows Management in the City Center	The main motivation is to study modern approaches to mathematical modeling and simulation procedure of traffic flow in the city using modern tools and technologies such as PTV software (VISSIM and VISUM). To learn more about modern methods of transport problems solving such as congestion on main streets, pollution, parking problems in cities. To learn about modern approaches of transport management using satellite navigation systems.
P7 – Georgian Technical University - GTU	Vakhtang Bogvelishvili	Efficiency of Cities Transport Systems; Human and Environmental Impacts	To lean about environmental aspects of city transport. Modern systems and approaches of sustainable transport. If possible to meet with local organizations and companies involved in city transport oversight and operation.
P8 - BSMA	Roman Mamuladze	Supply Chain Management; Transport and Customs Logistics; Logistics Management.	Wismar and the BSMA Universities have similarities in mentioned educational programs and modules at Master's level. In specific: we would like to study the goals and aims, contents and outcomes, compliances with Wismar edu. Programs to BSMA Programs. Acknowledgement with literature and simulations. Analyses of educational courses and modules, willingness to work with syllabuses and program with Wismar professors. Our benchmarks in educational programs (Master's in business administration) are taken from Wismar university and would like to fulfil and develop it.
	Gulad Tkhilaishvili	Operations Management; Supply Chain Management	
P5 - ZSTU	Beherskyi Dmytro	Human and Environmental Impacts, Safety and Sustainability: Reliability and Safety of City Logistics, Traffic Safety Systems.	To get new, advanced knowledge in subjects as for Environmental Aspects of Transport Exploitation, Sustainability Approach in Transport. To explore new samples of software in Transport Traffic Safety Systems.

4 Information on training in European universities

The internship program at the European Universities was developed on the basis of the topics that the participants of the internship sent and which were agreed with the host university in the Internship project (see Table 4). Topics correspond to the subjects of modules that teachers from local universities teach in the framework of the SmaLog project.

- **University of Rome Tor Vergata – UNITOV**
  Period - 19/11/2018-30/11/2018
  Place - Aula Giunta – room 02-103, Civil Engineering Building, Engineering School, Via del Politecnico 1, 00133 Rome
  Program of the training - see annex 2

- **Sapienza University of Rome – UNIROMA1**
  Period - 11/11/2018-24/11/2018
  Place - Centro di Ricerca per il Trasporto e la Logistica (CTL) "Sapienza" Università di Roma, Sapienza Engineering Faculty, Via Eudossiana, 18, Rome
  Program of the training - see annex 3

- **University of Applied Sciences Technology, Business and Design – HSW**
  Period – 29/10/2018 - 09/11/2018
  Place - Wismar University, Ph.-Mueller-Str., 23966 Wismar
  Program of the training - see annex 4

- **Silesian University of Technology**
  Period – 04/11/2018 - 18/11/2018
  Place - Silesian University of Technology, Department of Logistics and Industrial Transportation, Krasienskego 8 Str., 44-100 Katowice, Poland
  Program of the training - see annex 5

4.1 Internship at University of Rome Tor Vergata - UNITOV

Overall objectives of the Internship of participants, taking into account the planned topics:

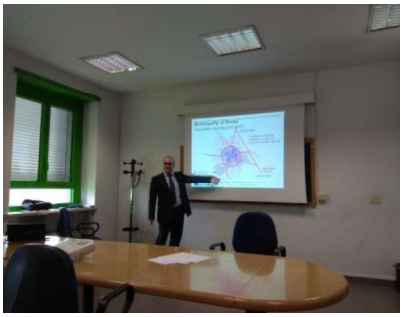
- improvement of teaching skills;
- get new experience in the field of scientific and practical skills;
- to receive information about on scientific and practical approaches used by European colleagues.

According to the internship topics, the focus was on the following areas of study: Logistics, Freight transportation, Stock theory, Functional Logistics, City Logistics.
In frame of these areas, teachers improved their knowledge and obtained new skills, and as a result – improved and / or developed topics for the modules in the framework of the training of masters "SmaLog".

Key points of the Internship program at University of Rome Tor Vergata – UNITOV (detailed Program of the training - see annex 2)

- studying analysis and examples of time series decomposition
- studying applications on transportation supply and demand
- studying applications on urban goods demand
- study visits (Metro C, Control Room of Italian Railway Network)

Photo report:

4.2 Internship at Sapienza University of Rome – UNIROMA1

Overall objectives of the Internship of participants, taking into account the planned topics:

- getting acquainted with European experience regarding to the traffic management, the analysis of urban freight transport and to the city logistics management;
- improvement of teaching skills;
- to have communication with teaching staff of EU Universities.

According to the internship topics, the focus was on the following areas of study: Traffic Engineering and ITS, Freight Transport and Logistics, Road safety impact assessment.
In frame of these areas, teachers obtained their skills and knowledge will be to use at local Universities during implementation SmaLog project.

Key points of the Internship program at Sapienza University of Rome – UNIROMA1 (detailed Program of the training - see annex 3):

- studying course Freight Transport and Logistics;
- studying course Traffic Engineering and ITS;
- training at the City logistics and applications seminar ;
- training at the Sustainable mobility and assessment of interventions on transportation systems seminar.

Photo report:



4.3 Internship at University of Applied Sciences Technology, Business and Design – HSW

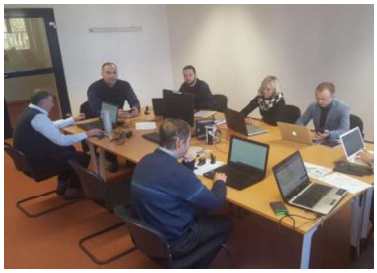
Overall objectives of the Internship of participants, taking into account the planned topics:

- obtained knowledge and upgraded skills will be useful during elaboration and improvement of Syllabi of SmaLog Module.
- improvement of teaching skills.
- getting acquainted with European experience regarding distance learning education.

According to the internship topics, the focus was on the following areas of study: Distance Education at Wismar University, City Mobility, and Port Operations. In frame of these areas, teachers obtained their skills and knowledge will be to use at local Universities during implementation SmaLog project. Key points of the Internship program at University of Applied Sciences Technology, Business and Design – HSW (detailed Program of the training - see annex 4)

- training at the Hungarian method (assignment problem) and Round trip problems (introduction and two simple heuristics) " seminar;
- training at the Logistic Initiative Mecklenburg-Vorpommern seminar;
- work with European literature;
- study visits (Container Terminal Altenwerder, Maritime Simulation Centre).

Photo report:


4.4 Internship at Silesian University of Technology - SUT

Overall objectives of the Internship of participants, taking into account the planned topics:

- gaining information about teaching and learning methods at Silesian University of Technology.
- learning about cooperation between Silesian University of Technology and regional transport companies.
- mastering new approaches and methods of teaching activities.

According to the internship topics, the focus was on the following areas of study: Transport Management; Traffic Flows Modeling; Industrial Logistics; Intelligent Transport Systems.

Key points of the Internship program at Silesian University of Technology (detailed Program of the training - see annex 5):

- studying courses Global Logistics, Efficiency of transport processes, Traffic management and Safety, Intermodal Logistics,
- presentation on ITS usage in Ukraine, Zhytomyr Region,
- work with European literature,
- study visits (Public Transport Administration of Katowice city, Traffic Control Center of Gliwice city)

Photo report:



5 Internship publications

At the end of the internship, each university-participant prepared materials about the internship. Publications were posted on the website and on social networks. The links to these publications are in the Annex 6.

6 Activities agreed after training

Action N°	Action	University
Action 1	Received new knowledge to introduce in the training of masters	All local universities
Action 2	The received materials should be placed on a distance course platform, which is implemented according to the WP 4	NTU
Action 3	The received materials should be placed on the web site of the project	LPNU

7 Feedback from participants and host European universities

In order to evaluate internships as a way to improve the qualifications of teachers, surveys were conducted among participants and host European universities.

7.1 European partners survey results

Representatives of European universities participating in the SmaLog project were asked to evaluate the internship as a way to improve the qualifications of teachers. Also they were asked to give their recommendations on the system of improving the qualifications of teachers. Questionnaire form - in the Annex 7. Below are the results of the survey (Figure 1-4).

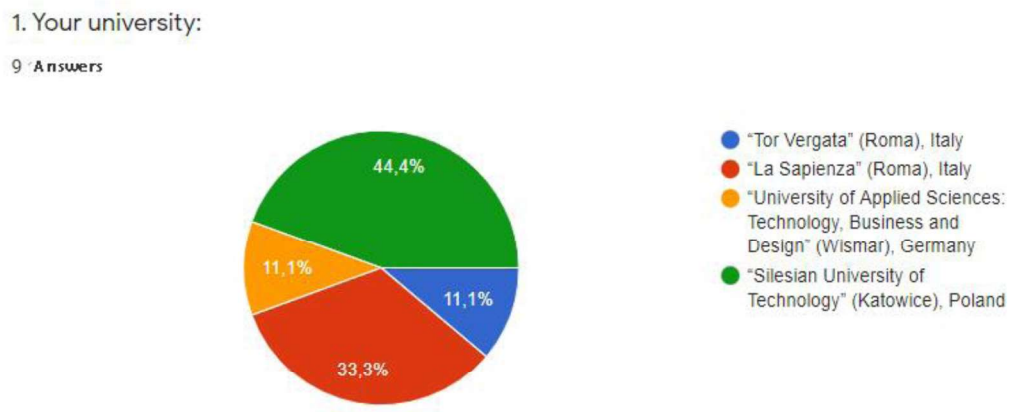


Figure 1

There are 9 answers were received in the survey; all 4 universities - project participants took part in the survey (Figure 1)

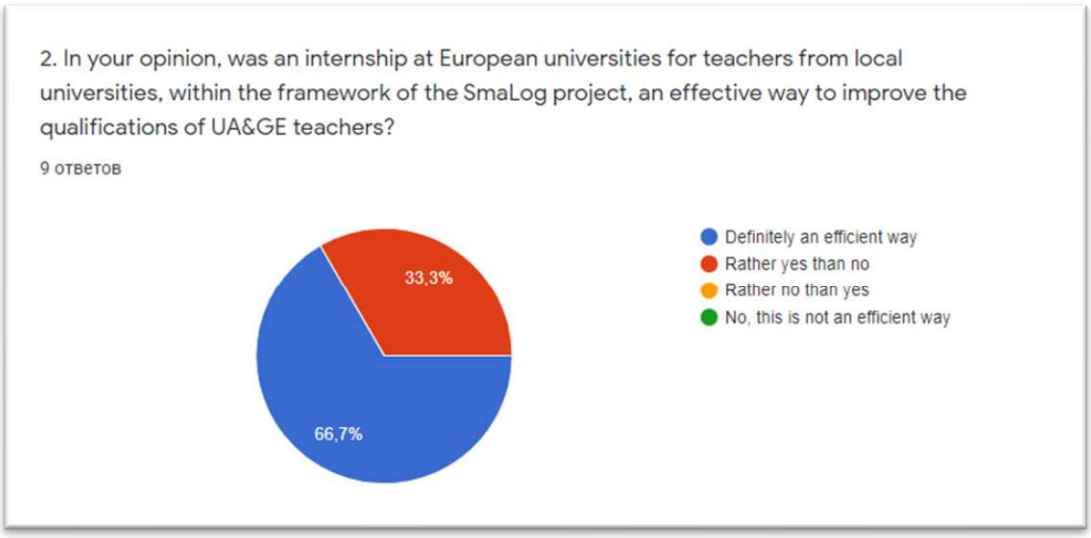


Figure 2

According to the respondents, internships at European universities are definitely an effective way to improve professional qualifications - 67% answers (Figure 2).

The survey participants were asked to select the factors that they believe determine the effectiveness of the internship.

The most significant factors were chosen by the participants (Figure 3):
- Effective, because after the internship, the teachers could use new skills in teaching process (89%)
- Effective, because during/after the internship, the teachers developed a new course for their university (67%)

- Effective, because after the internship, we received positive feedback regarding results of internship for local university (67%)

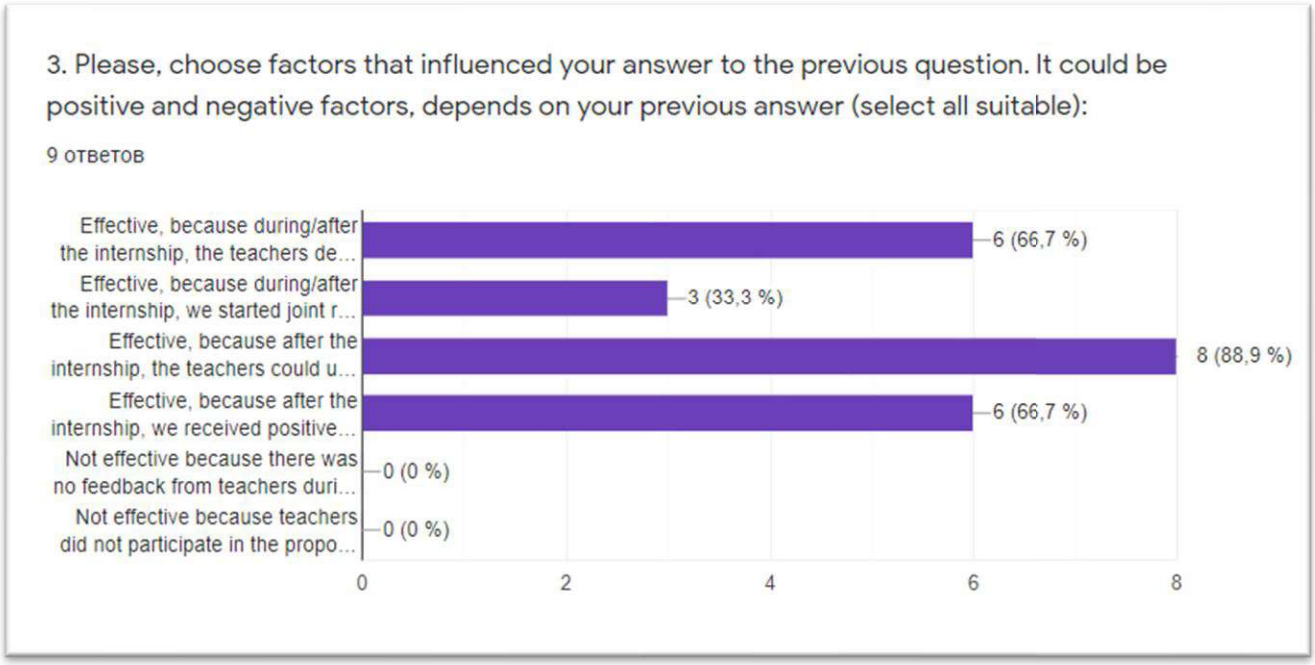


Figure 3

Also, the survey participants were asked to give suggestion regarding other ways to improve the qualifications of teachers.
It was received 4 answers (Figure 4).

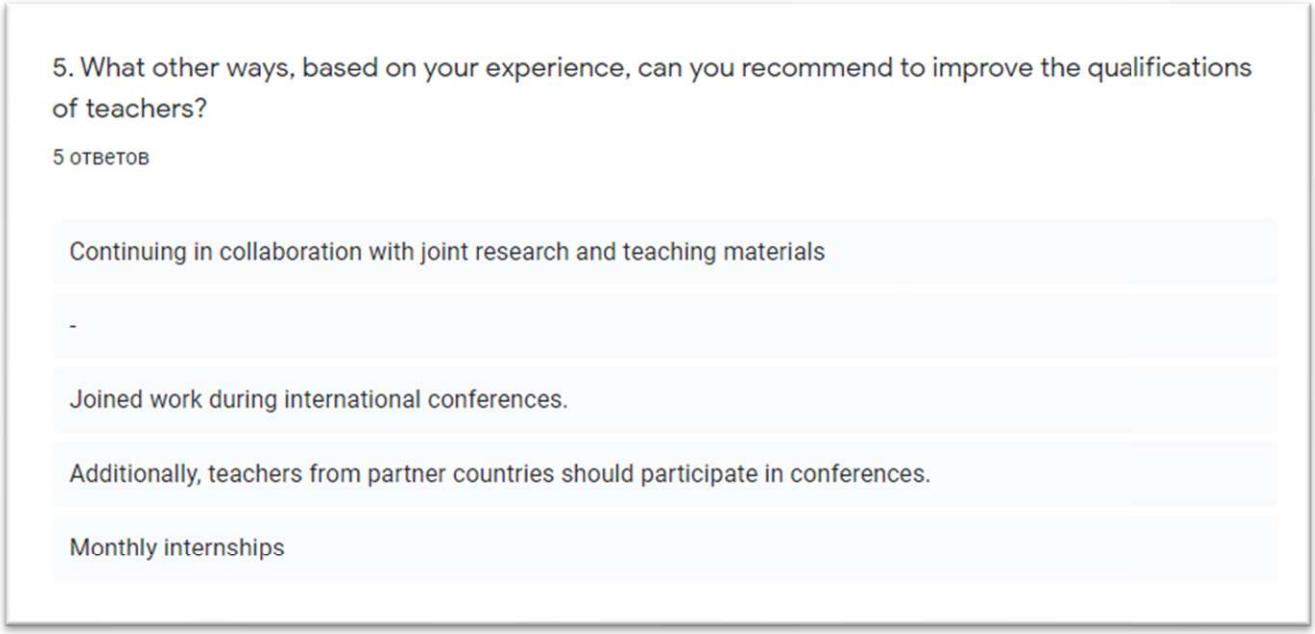


Figure 4

7.2 Internship participants survey results

All internship participants took part in a survey to assess the effectiveness of participation in the internship. Questionnaire form - in the Annex 8. Below are the results of the survey (Figure 5 – 10).

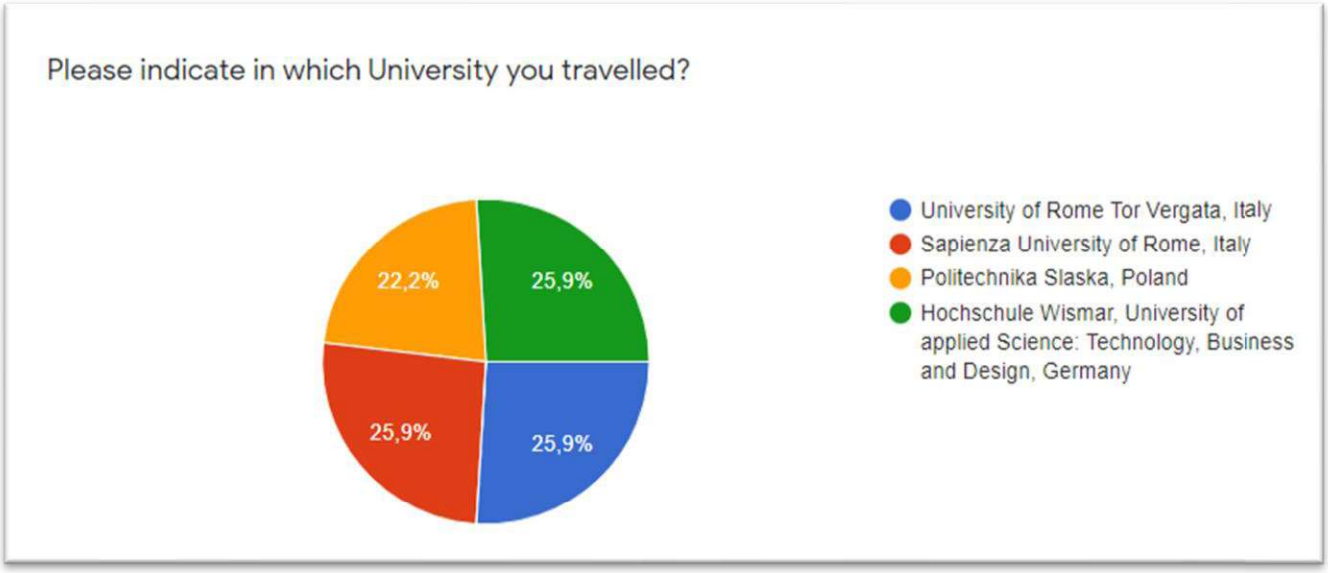


Figure 5

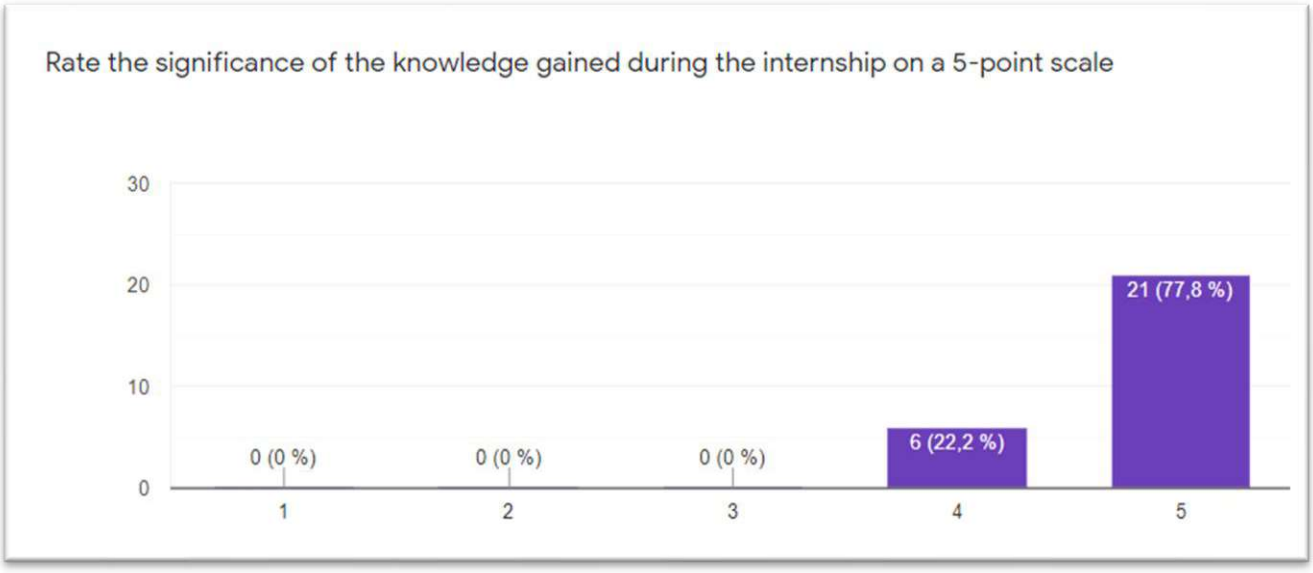


Figure 6

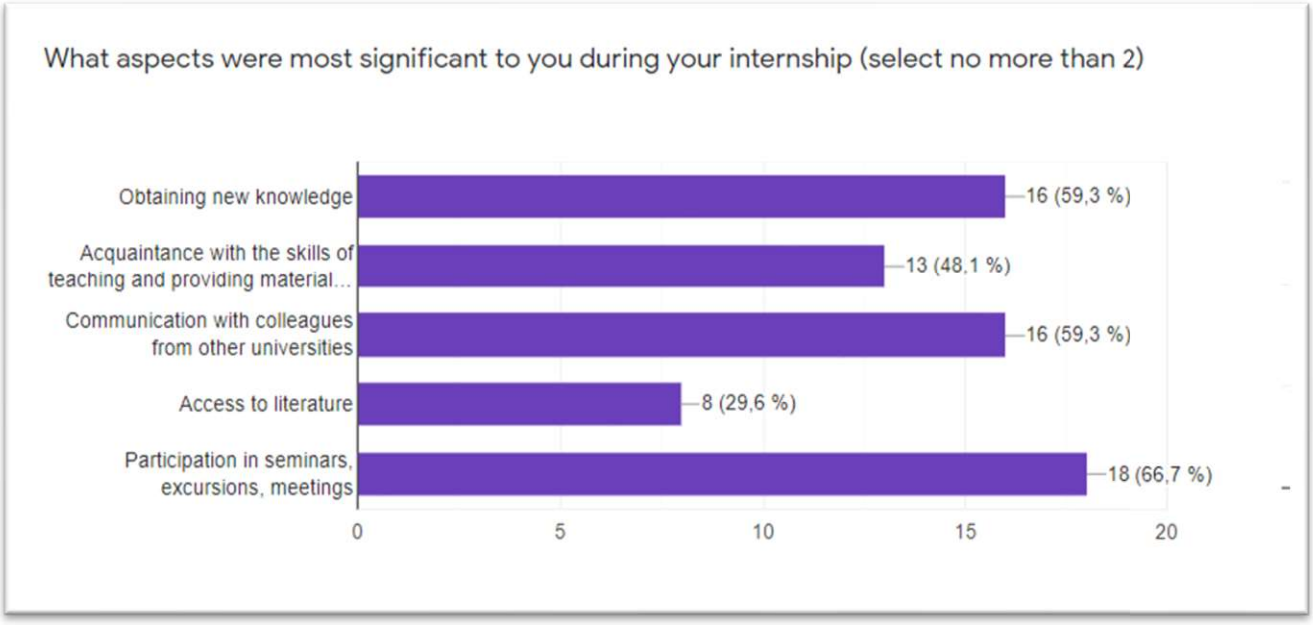
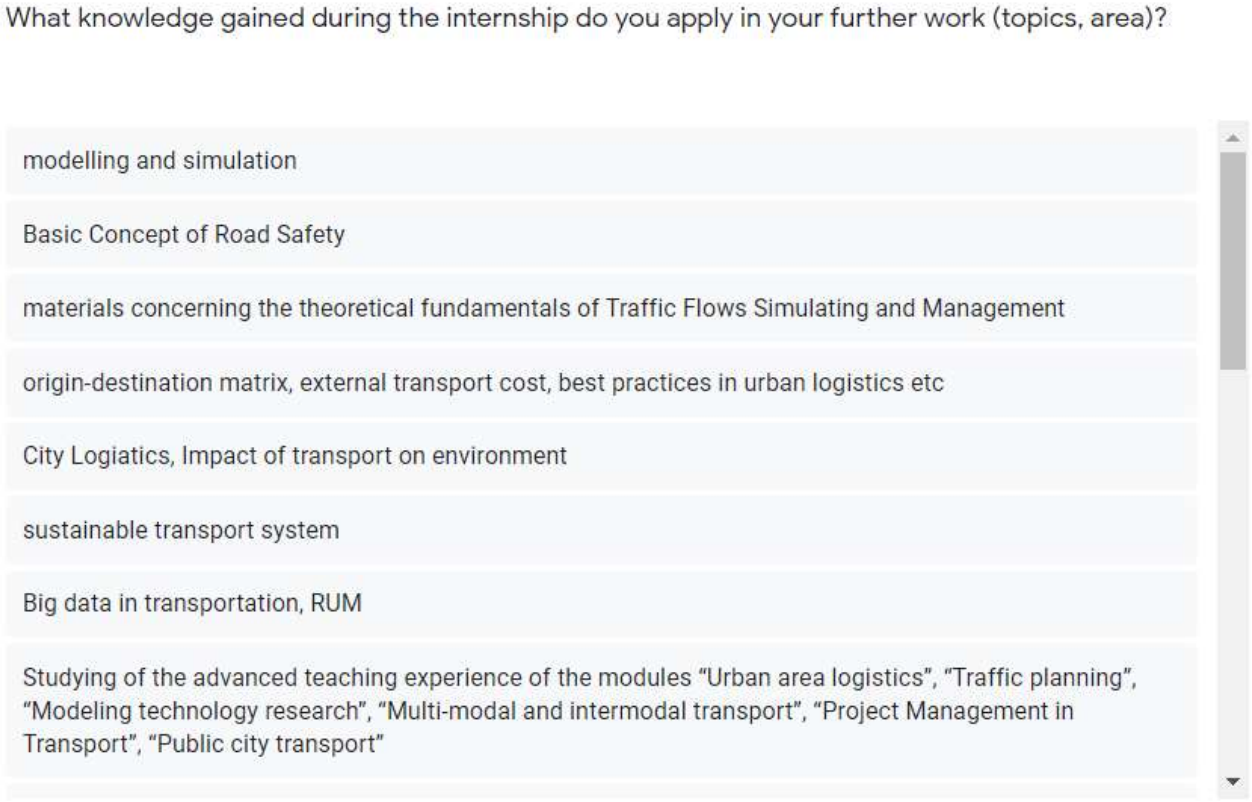

What aspects were most significant to you during your internship (select no more than 2)
Obtaining new knowledge
16 (59,3 %)
Acquaintance with the skills of teaching and providing material...
13 (48,1 %)
Communication with colleagues from other universities
16 (59,3 %)
Access to literature
8 (29,6 %)
Participation in seminars, excursions, meetings
18 (66,7 %)
0
5
10
15
20

Figure 7


What knowledge gained during the internship do you apply in your further work (topics, area)?
modelling and simulation
Basic Concept of Road Safety
materials concerning the theoretical fundamentals of Traffic Flows Simulating and Management
origin-destination matrix, external transport cost, best practices in urban logistics etc
City Logiatics, Impact of transport on environment
sustainable transport system
Big data in transportation, RUM
Studying of the advanced teaching experience of the modules “Urban area logistics”, “Traffic planning”, “Modeling technology research”, “Multi-modal and intermodal transport”, “Project Management in Transport”, “Public city transport”

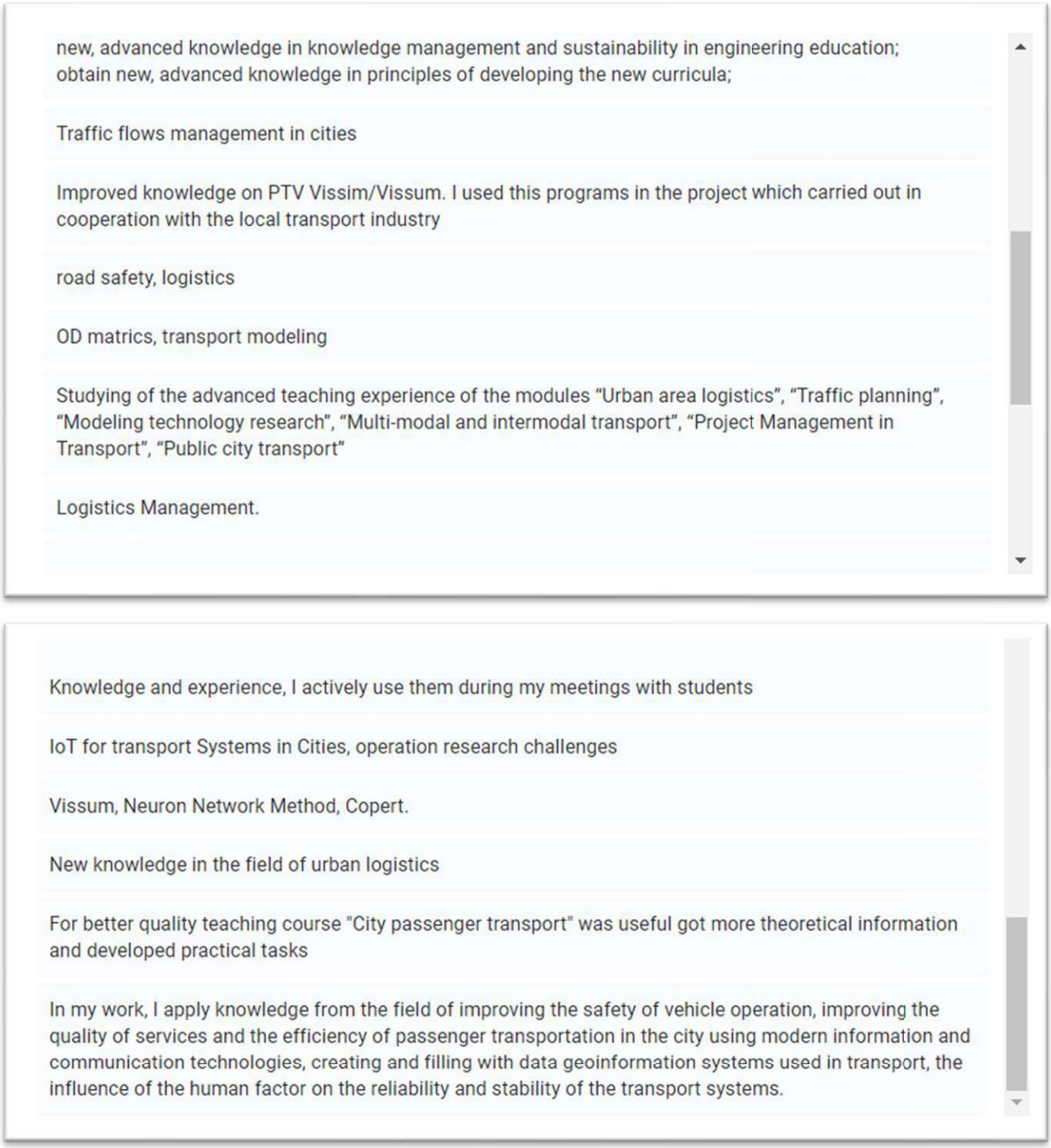

new, advanced knowledge in knowledge management and sustainability in engineering education; obtain new, advanced knowledge in principles of developing the new curricula;
Traffic flows management in cities
Improved knowledge on PTV Vissim/Vissum. I used this programs in the project which carried out in cooperation with the local transport industry
road safety, logistics
OD matrics, transport modeling
Studying of the advanced teaching experience of the modules "Urban area logistics", "Traffic planning", "Modeling technology research", "Multi-modal and intermodal transport", "Project Management in Transport", "Public city transport"
Logistics Management.
Knowledge and experience, I actively use them during my meetings with students
IoT for transport Systems in Cities, operation research challenges
Vissum, Neuron Network Method, Copert.
New knowledge in the field of urban logistics
For better quality teaching course "City passenger transport" was useful got more theoretical information and developed practical tasks
In my work, I apply knowledge from the field of improving the safety of vehicle operation, improving the quality of services and the efficiency of passenger transportation in the city using modern information and communication technologies, creating and filling with data geoinformation systems used in transport, the influence of the human factor on the reliability and stability of the transport systems.

Figure 8

What skills learned during the internship do you use in your further work?

Vote-count analysis, meta analysis

leading teaching methods, creating the distance lesson with the _IT Centre PELA

obtaining utility function, calibration for obtaining the coefficient of utility function, calculation of external costs of transport etc

Teaching skills, presentarion skills

communication, research

Survey conduction on random utility maximization

Gained the following skills in teaching disciplines;
• verbal skills - story-explanation, conversation, lecture.
• visual skills - illustration, demonstration (pictures, tables, models)
• practical skills: experiments, exercises, educational work. Laboratory and practical works, works, essays of students

working with simulation tools

working with simulation tools

principles of creating distance lessons with the support of IT Centre PELA

Formation of presentation material for carrying out lessons; communication with colleagues from other universities

Communication
Computer skills
Problem-solving
Transferable skills

Preparation of educational program and syllabi

urban road safety and traffic management

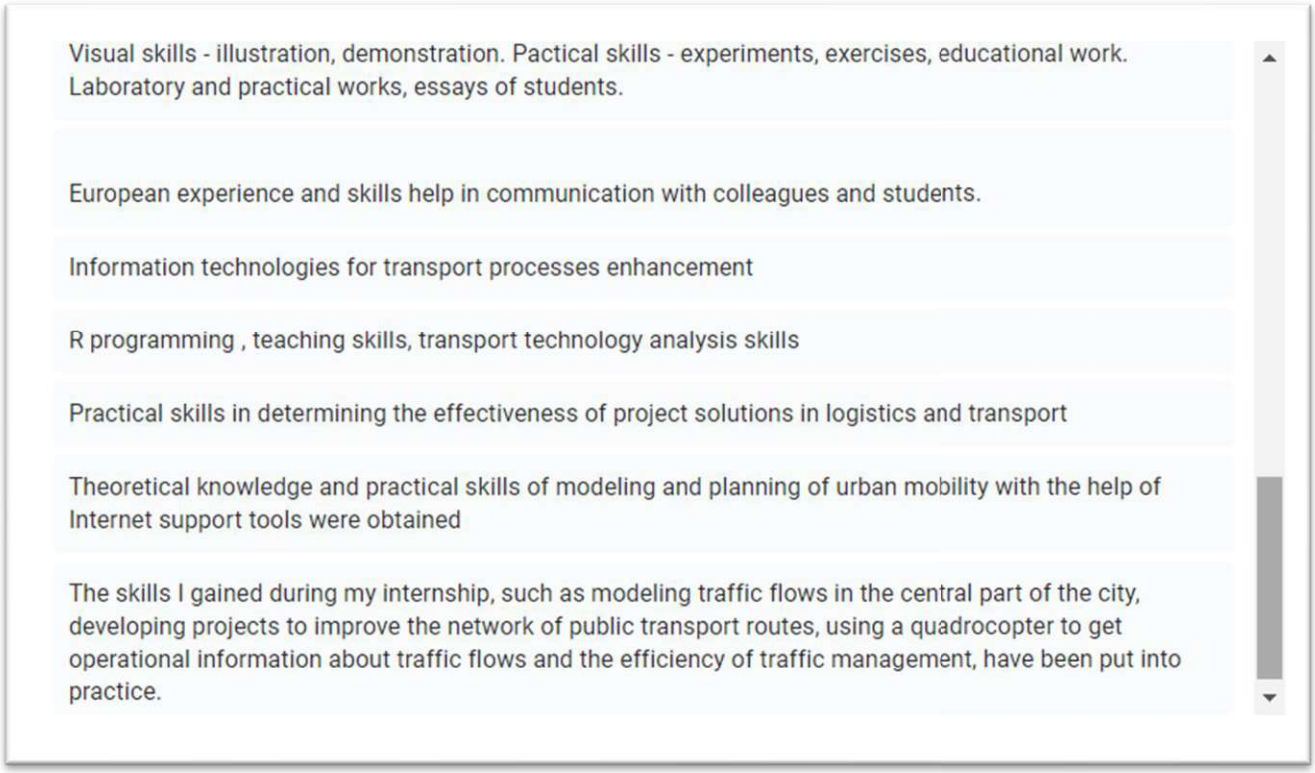


Figure 9

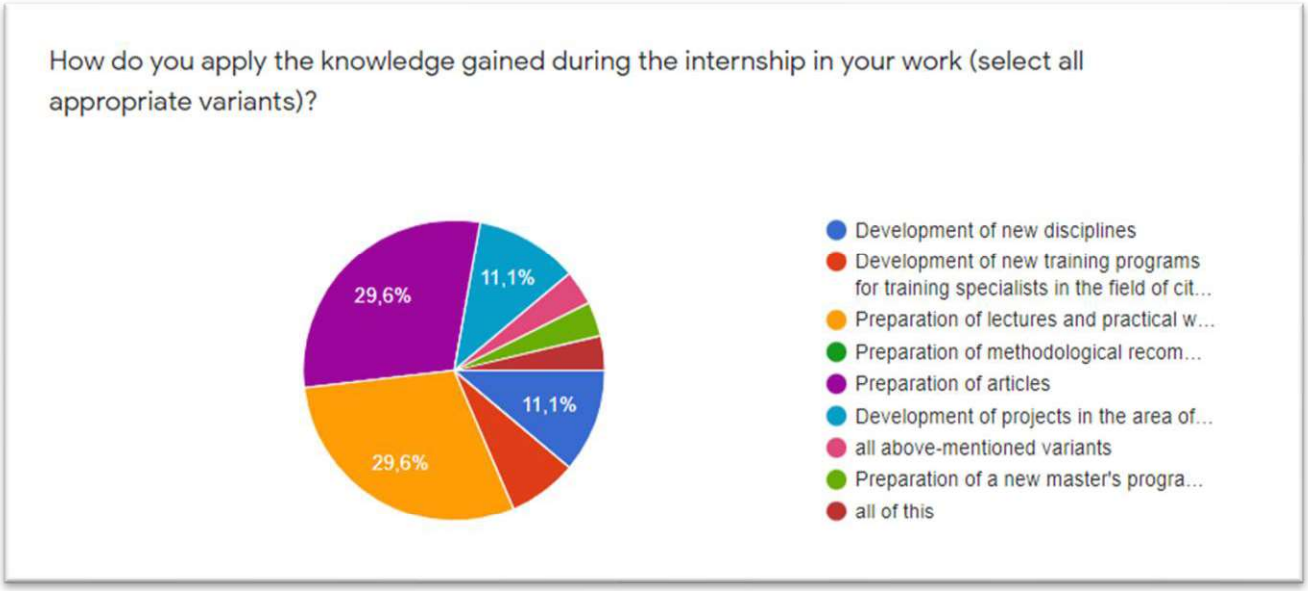
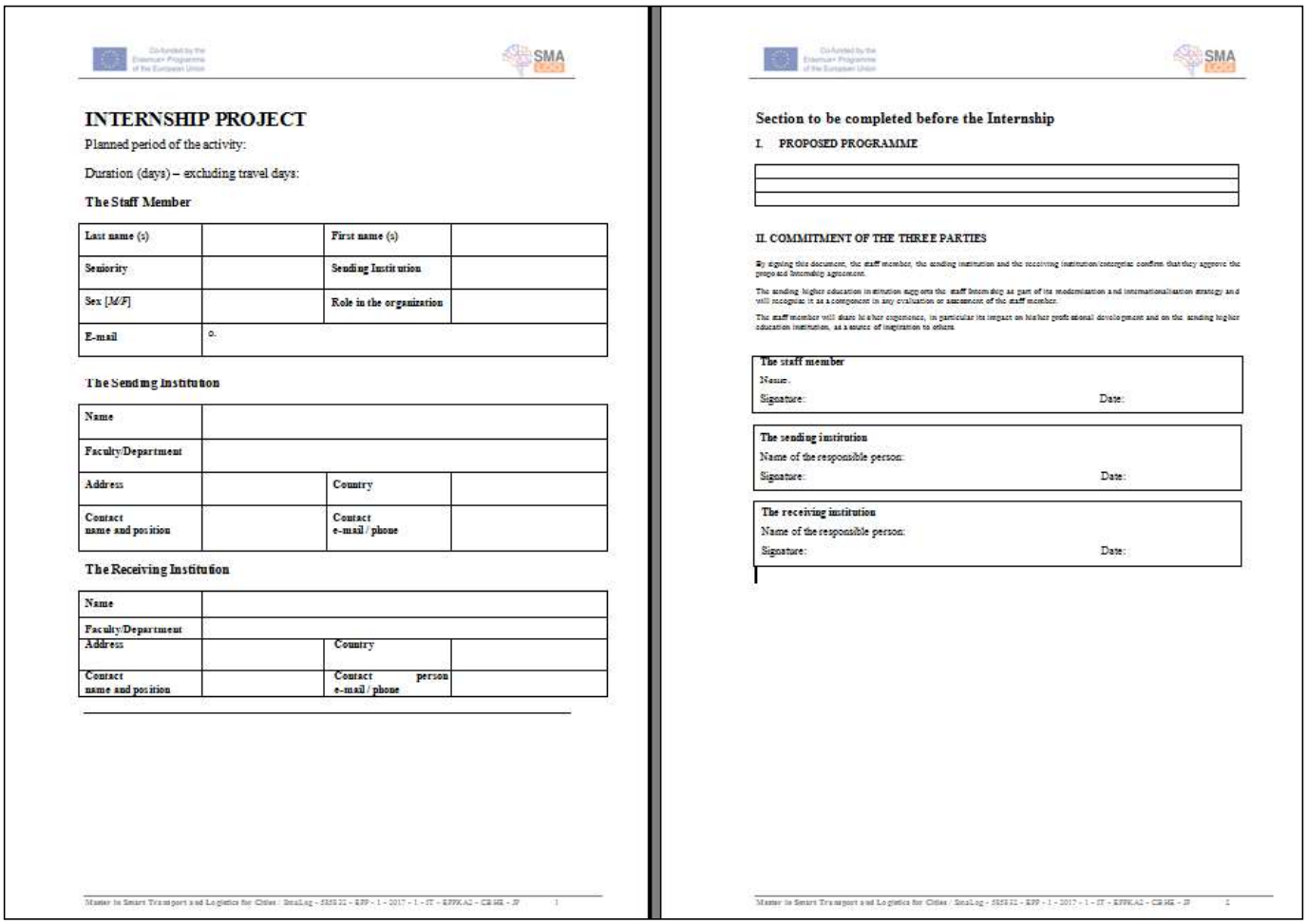


Figure 10

The results of the surveys showed that the participants and the host parties evaluate the internship as an effective and efficient way to improve teachers' qualifications. This is evidenced by the responses of the participants to the questions: "What knowledge gained during the internship do you apply in your further work (topics, area)?" and "What skills learned during the internship do you use in your further work?" (Figure 8-9). Particularly revealing are the answers to the question: "How do you apply the knowledge gained during the internship in your work (select all appropriate variants)?" (Figure 10). The most popular responses were: "Preparation of lectures and practical work" (30% answers) and Preparation of articles (30% answers).

ANNEX

Annex 1



INTERNSHIP PROJECT

Planned period of the activity:

Duration (days) – excluding travel days:

The Staff Member

Last name (s)		**First name (s)**	
Seniority		**Sending Institution**	
Sex [M/F]		**Role in the organization**	
E-mail	o.		

The Sending Institution

Name			
Faculty/Department			
Address		**Country**	
Contact name and position		**Contact e-mail / phone**	

The Receiving Institution

Name			
Faculty/Department			
Address		**Country**	
Contact name and position		**Contact person e-mail / phone**	

Master in Smart Transport and Logistics for Cities / SmaLog - 585832 - EPP - 1 - 2017 - 1 - IT - EPPKA2 - CBHE - JP 1

Section to be completed before the Internship

I. **PROPOSED PROGRAMME**

II. **COMMITMENT OF THE THREE PARTIES**

By signing this document, the staff member, the sending institution and the receiving institution/enterprise confirm that they approve the proposed Internship agreement.

The sending higher education institution supports the staff Internship as part of its modernisation and internationalisation strategy and will recognise it as a component in any evaluation or assessment of the staff member.

The staff member will share his/her experience, in particular its impact on his/her professional development and on the sending higher education institution, as a source of inspiration to others.

The staff member
Name:
Signature: Date:

The sending institution
Name of the responsible person:
Signature: Date:

The receiving institution
Name of the responsible person:
Signature: Date:

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Annex 2

Programme of Internship in University of Rome Tor Vergata – UNITOV

Monday, 19th November 2018

Time	Topic	Speaker(s)
10:30	Participants' arrival *Introduction to internship*	Antonio Comi
11:00	Introduction to VISUM	Umberto Crisalli
14:00	Exercises with VISUM	Umberto Crisalli

Tuesday, 20th November 2018

Time	Topic	Speaker(s)
10:30	Technical Visit at Control Room of Italian Railway Network ***place***: Roma Termini Railway station (check gate at platform 1)	
14:00	Introduction to Bus Network Operations Control 1 – 2 ***place***: teaching building, room C2	Agostino Nuzzolo

Wednesday, 21st November 2018

Time	Topic	Speaker(s)
10:30	Individual work: transportation supply and demand	
12:00	Practical applications on transportation supply and demand	Antonio Comi
16:00	Time Series: analysis and examples of time series decomposition ***place***: teaching building, room C2	Agostino Nuzzolo Antonio Comi

Thursday, 22nd November 2018

Time	Topic	Speaker(s)
10:30	Individual work/study	
14:00	Time Series: forecast methods and accuracy evaluation Examples of bus travel time forecasting ***place***: teaching building, room C2	Antonio Comi

Friday, 23rd November 2018

Time	Topic	Speaker(s)
10:30	Technical Visit at Metro C ***place***: Metro C station: GIARDINETTI	
14:00	Individual work	

Monday, 26th November 2018

Time	Topic	Speaker(s)
10:30	Individual work/study	
14:00	Urban goods movement: overview, measures and plans Examples of application	Antonio Comi
16:00	Practical applications on urban goods demand	Antonio Comi

Tuesday, 27th November 2018

Time	Topic	Speaker(s)
10:30	Individual work/study	
14:00	Introduction to travel time forecasting Time Series: Exercises with R-project	Antonio Comi

Wednesday, 28th November 2018

Time	Topic	Speaker(s)
10:30	Logistic costs and modal choice	Antonio Comi
12:00	Effects of actions on freight nodes, financial and economic analysis Practical application: cost benefit analysis of intermodal freight nodes	Antonio Polimeni
16:00	Artificial Neural Networks Examples of travel time forecasting Artificial neural network: exercises with R-project ***place***: teaching building, room C2	Antonio Comi

Thursday, 29th November 2018

Time	Topic	Speaker(s)
10:30	Individual work/study	
14:00	Technical Visit at AlmavivA ***place*****:** via di Casal Boccone 188, Rome	

Friday, 30th November 2018

Time	Topic	Speaker(s)
10:30	Introduction to transport and land use interaction	Pierluigi Coppola
14:00	Examples of applications on transport and land use interaction	Fulvio Silvestri
16:00	Concluding remarks	Antonio Comi

Annex 3

Programme of Internship in Sapienza University of Rome (UNIROMA1)

PROFESSOR	TOPICS	PROVISION
Mariia Olkhova **Andrii Galkin** **Olha Kunytska** **Liidia Savchenko**	city logistics and applications (ICT and ITS) namely solutions to urban freight problems, applications to different urban context in Europe and beyond, methods	**Provided during the Freight Transport and Logistics course - Wednesdays 14 and 21 (4 hours theory) + Thursday 22 (3 hours exercise). The part of the course is "City logistics theory and applications"**
	Methodic for urban logistics zoning for demand evaluation	
	KPI for urban logistics: criterions, assessment methods and models evaluation	
	Distribution centers and warehouses - warehousing problem in the city area, rational location determination.	
	E-commerce - trends, performances, infrastructures and delivery structure.	
	Urban goods movements: integrated modeling - the urban goods movement in city transit, constraints to urban goods movement.	
	familiarize yourself with the existing restrictions on the movement of trucks in the city, the requirements for them from the point of view of the environment	
Mariia Olkhova	Evaluation and Comparison of Transportation System Projects, namely measures of effectiveness, evaluation tools (CBA, CEA, MCA), monitoring of the transport system, environmental Impact Assessment (EIA) and Strategic Impact Assessment (SEA). Road safety Impact Assessment (RIA)	**Provided during a dedicated seminar – dates will be announced soon**
Andrii Galkin **Liidia Savchenko**	1Implementation of special software for freight and logistics calculation (exercises, projects, thesis);	**Provided during a dedicated seminar – dates will be announced soon**
	Routing and schedule models in case of last mile logistics;	
	1) to get acquainted with software products capable of developing distribution routes taking into account traffic congestion;	
	3) learn to solve routing tasks using European IT technologies, including navigation systems	
Giorgi Sisvadze	To learn about ITS and city passenger transport.	**Provided during the Traffic Engineering and ITS course – Monday 19, Tuesday 13 and 20, Wednesday 14 and 21.**

Draft Internship agenda

Date	Day	Time	Course	Room
13/11/2018	Tuesday	10.00-17.00	Self study	Laboratorio Trasporti
		17.00-18.00	Traffic Engineering and ITS	40
14/11/2018	Wednesday	11.00 -13.00	Freight Transport and Logistics	9
		15.00-18.00	Traffic Engineering and ITS	11
15/11/2018	Thursday	11.00 -14.00	Freight Transport and Logistics	9
		15.00 - 18.00	Self study	Laboratorio Trasporti
16/11/2018	Friday	10.00 - 18.00	Self study	Laboratorio Trasporti
17/11/2018	Saturday			
18/11/2018	Sunday			
19/11/2018	Monday	10.00-18.00	Self study	Laboratorio Trasporti
		18.00-19.00	Traffic Engineering and ITS	8
20/11/2018	Tuesday	10.00-17.00	Self study	Laboratorio Trasporti
		17.00-18.00	Traffic Engineering and ITS	40
21/11/2018	Wednesday	11.00 -13.00	Freight Transport and Logistics	9
		15.00-18.00	Traffic Engineering and ITS	11
22/11/2018	Thursday	11.00 -14.00	Freight Transport and Logistics	9
		15.00 - 18.00	Self study	Laboratorio Trasporti
23/11/2018	Friday	10.00 - 12.00	Feedback/ final discussion	Laboratorio Trasporti

CTL – Sapienza University of Rome 3

Annex 4

Programme of Internship in University of Applied Sciences Technology, Business and Design – HSW

Friday, 02nd November 2018

Time	Topic	Speaker(s)
10:45	Meeting of Participant at Wismar University Library	
11:00 – 12:30	WINGS GmbH, TGZ Ph.-Müller-Str., H2, room 401 Distance Education at Wismar University	Dagmar Hoffmann, CEO WINGS

Monday, 05th November 2018

Time	Topic	Speaker(s)
08:45 09:00	Meeting of Participant at Wismar University Library Meeting with Dean Faculty of Engineering	Pick up by Ms Annemarie Ahn Prof. Dr. Ingo Müller
14:00 14:15 – 15:45	Meeting of Participant at Wismar University Library, room C3 Attending Lecture "Ungarischen Methode (Zuordnungsproblem) und Rundreisenprobleme (Einführung und zwei einfache Heuristiken)" In German Wismar University, building 1/room 321	Pick up by Ms Annemarie Ahn Prof. Dr. Bernd Wagner

Tuesday, 06th November 2018

Time	Topic	Speaker(s)
09:30	Meeting of Participant at Wismar University Library, room C3	Prof. Dr. Norbert Grünwald
10:45 – 12:45	Hanseatic Town Rostock, Haus des Bauens und der Umwelt (HdBU), Holbeinplatz 16, 18069 Rostock Mobility in Hanseatic Town Rostock (Now and Future) Interreg-Project Interconnect Mobility in Baltic Sea Area	Mr. Nozon Dr. Andreas Schubert Wiktor Schedorowski
13:30 – 16:30 14:00 14:45 15:30	FleetMon, Strandstraße 87/88, 18055 Rostock Presentation from Logistic Initiative Mecklenburg-Vorpommern (LIMV) Presentation of FleetMon Discussion with Coffee and Cake	 Carsten Hilgenfeld (FleetMon) Thomas Rust (LIMV)

Wednesday, 07th November 2018

Time	Topic	Speaker(s)
12:15	Meeting of Participant at Wismar University Library, room C3	
13:30 – 15:00	Hochschule Wismar, Department of Maritime Studies, Rostock, Warnemünde, Attending Lecture: Port Operations (in English)	Prof. Dr. Sönke Reise
15:00 – 16:00	Visit Maritime Simulation Centre	Prof. Karsten Wehner

Thursday, 08th November 2018

Time	Topic	Speaker(s)
09:30	Meeting of Participant at Wismar University Library, room C3	
10:00 – 10:45	Building 1 room 223 Intercultural Studies	Ms Dallas REESE
13:00 – 15:00	Hamburg, Rezeption des Terminals (HHLA Container Terminal Altenwerder, Am Ballinkai 1, D-21129 Hamburg Visit of HHLA Container Terminal Altenwerder (CTA)	Uwe Köhler

Friday, 09th November 2018

Time	Topic	Speaker(s)
14:30 – 15:00	Wismar University, Library, room C3 Mobility in Rural Areas	Prof. Udo Onnen-Weber

Annex 5

Programme of Internship in Silesian University of Technology

Key sessions:

Sunday 4/11	
	Arrival to the Hotel "Senator", 1 Maja 3, 40-224 Katowice, Poland
Monday 5/11	
11.30 – 12.00	Welcome Meeting, Room 325, Dean of the Faculty
12.00 – 13.00	Lunch
13.00 – 15.00	Meeting and discussing objectives of the visit, Prof. Aleksander Sladkowski
Tuesday 6/11	
10.15 – 12.00	Guest Lecture. Course «Global Logistics». Room 325, Lector: Szhcuka Lasota Bozena
12.00 – 13.00	Lunch
13.00 – 15.00	Visit museum of Transport at the SUT
Wednesday 7/11	
09.00-10.00	Seminar on Higher Education, ITS and Smart Transport at SUT Room 325, Lector: Prof. Aleksander Sladkowski
10.30-12.00	Guest Lecture. Course «Intermodal Logistics». Room 059, Lector: Ciesla Maria
12.00 – 13.00	Lunch
13.00 – 15.30	Presentation on Traffic Control and Management in Zhytomyr Region.
Thursday 8/11	
10.15 – 12.00	Lecture: Course «Waste Logistics». Room 350, Lector: Prof. Nowakowski
12.00 – 13.00	Lunch
13.00 – 15.00	Lecture: Course «Intermodal transport and logistics of the Terminals». Room 350, Lector: Markusik Sylwester
Friday 9/11	
09.00-12.00	Visiting Traffic Control Center of Gliwice city
12.00 – 13.00	Lunch
13.00 – 15.00	Guest Lecture. Course «Road Infrastructure». Room 104, Lector: Tomasz Wegrzyn
15.00 – 16.30	Presentation on ITS usage in Ukraine, Zhytomyr Region.

Saturday 10/11	
10.15 – 12.00	Guest Lecture. Course «Global Logistics» (PhD). Room 325, Lector: Szhcuka Lasota Bozena
Sunday 11/11	
	Sitesseeing tour Free time (any suggestions are welcome)
Monday 12/11	
10.15 – 12.00	Guest Lecture. Course «Systems Theory and Transport Process Optimization». Room 056, Lector: Prof. Zoochowska
12.00 – 13.00	Lunch
13.00 – 15.00	Guest Lecture. Course «Analysis of transport systems». Room 056, Lector: Prof. Zoochowska
Tuesday 13/11	
10.15 – 12.00	Guest Lecture. Course «Statistics and data analysis». Room 056, Lector: Prof. Zoochowska
12.00 – 13.00	Lunch
13.00 – 15.00	Guest Lecture. Course «Efficiency of transport processes». Room 306, Lector: Rafal Burdzik
Wednesday 14/11	
10.15 – 12.00	Guest Lecture. Course «Telemetry systems». Room 306, Lector: Marcin Staniek
12.00 – 13.00	Lunch
13.00 – 15.00	Guest Lecture. Course «Modeling of transport processes». Room 110, Lector: Grzegrz Sierpinski
Thursday 15/11	
10.15 – 12.00	Guest Lecture. Course «Basic motion engineering». Room 056, Lector: Macioszek Elzbieta
12.00 – 13.00	Lunch
13.00 – 15.00	Guest Lecture. Course «Traffic management and Safety». Room 308, Lector: Aleksandr Sobota
Friday 16/11	
09.00-12.00	Visit to Public Transport Administration of Katowice city
12.00 – 13.00	Lunch
13.00 – 14.45	Guest Lecture. Course «Transport systems and processes». Room 167, Lector: Grzegorz Karon
Saturday 17/11	
10.15 – 12.00	Guest Lecture. Course «Global Logistics». Room 325, Lector: Szhcuka Lasota Bozena
12.00 – 13.00	Lunch
Sunday 18/11	
	Departure

Annex 6

Internship publications

University of Rome Tor Vergata (UNITOV)		
Partner number	**Organisation name & acronym**	**Information about the University web-site 2nd Coordination Meeting of the PMC**
P3	O. M. Beketov National University of Urban Economy in Kharkiv (NUUE)	http://www.kname.edu.ua/index.php/3592-%D0%B2%D0%B8%D0%BA%D0%BB%D0%B0%D0%B4%D0%B0%D1%87%D1%96-%D0%BA%D0%B0%D1%84%D0%B5%D0%B4%D1%80%D0%B8-%D1%82%D1%80%D0%B0%D0%BD%D1%81%D0%BF%D0%BE%D1%80%D1%82%D0%BD%D0%B8%D1%85-%D1%81%D0%B8%D1%81%D1%82%D0%B5%D0%BC-%D1%96-%D0%BB%D0%BE%D0%B3%D1%96%D1%81%D1%82%D0%B8%D0%BA%D0%B8-%D0%BF%D1%80%D0%BE%D0%B9%D1%88%D0%BB%D0%B8-%D1%81%D1%82%D0%B0%D0%B6%D1%83%D0%B2%D0%B0%D0%BD%D0%BD%D1%8F-%D0%B2-%D1%83%D0%BD%D1%96%D0%B2%D0%B5%D1%80%D1%81%D0%B8%D1%82%D0%B5%D1%82%D1%96-university-of-rome-tor-vergata-%D1%83-%D1%80%D0%B0%D0%BC%D0%BA%D0%B0%D1%85-%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%B8-erasmus-ka-2-smalog
P4	Lviv Politechnic National University (LPNU)	http://www.lp.edu.ua/news/2018/vykladachi-kafedry-transportnyh-tehnologiy-u-ramkah-proektu-smalog-proyshly-stazhuvannya-v
	Social media	https://www.facebook.com/SmaLog2017/photos/a.1022411351245802/1264487647038170/?type=3&theater https://www.facebook.com/SmaLog2017/posts/1257267417760193?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1254643711355897?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1254188534734748?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1253120874841514?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1252462761573992?__tn__=-R

Sapienza University of Rome (UNIROMA1)		
Partner number	**Organisation name & acronym**	**Information about the University web-site 2nd Coordination Meeting of the PMC**
P3	O. M. Beketov National University of Urban Economy in Kharkiv (NUUE)	http://www.kname.edu.ua/index.php/3577-%D0%B2%D0%B8%D0%BA%D0%BB%D0%B0%D0%B4%D0%B0%D1%87%D1%96-%D0%BA%D0%B0%D1%84%D0%B5%D0%B4%D1%80%D0%B8-%D1%82%D1%80%D0%B0%D0%BD%D1%81%D0%BF%D0%BE%D1%80%D1%82%D0%BD%D0%B8%D1%85-%D1%81%D0%B8%D1%81%D1%82%D0%B5%D0%BC-%D1%96-%D0%BB%D0%BE%D0%B3%D1%96%D1%81%D1%82%D0%B8%D0%BA%D0%B8-%D0%BF%D1%80%D0%BE%D0%B9%D1%88%D0%BB%D0%B8-%D1%81%D1%82%D0%B0%D0%B6%D1%83%D0%B2%D0%B0%D0%BD%D0%BD%D1%8F-%D0%B2-%D1%83%D0%BD%D1%96%D0%B2%D0%B5%D1%80%D1%81%D0%B8%D1%82%D0%B5%D1%82%D1%96-sapienza-university-of-rome-%D1%83-%D1%80%D0%B0%D0%BC%D0%BA%D0%B0%D1%85-%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%B8-erasmus-ka-2-smalog
P6	National Transport University (NTU)	http://www.ntu.edu.ua/stazhuvannya-vikladachiv-za-mizhnarodnim-proektom-smalog/
	Social media	https://www.facebook.com/SmaLog2017/posts/1249978948489040?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1249597318527203?__tn__=-R

Silesian University of Technology (SUT)		
Partner number	**Organisation name & acronym**	**Information about the University web-site 2nd Coordination Meeting of the PMC**
P5	Zhytomyr State Technological University (ZSTU)	https://ird.ztu.edu.ua/2018/11/erasmus-smalog-stazhuvannya-vykladachiv-zhdtu-v-universytetah-nimechchyny-i-polshhi/

Hochschule Wismar, University of Applied Science: Technology, Business and Design (HSW)		
Partner number	**Organisation name & acronym**	**Information about the University web-site 2nd Coordination Meeting of the PMC**
P4	Lviv Politechnic National University (LPNU)	http://www.lp.edu.ua/news/2018/vykladachi-kafedry-transportnyh-tehnologiy-universytetu-v-ramkah-proektu-smalog-proyshly
P5	Zhytomyr State Technological University (ZSTU)	https://ird.ztu.edu.ua/2018/11/erasmus-smalog-stazhuvannya-vykladachiv-zhdtu-v-universytetah-nimechchyny-i-polshhi/
P6	National Transport University (NTU)	http://www.ntu.edu.ua/stazhuvannya-vikladachiv-za-mizhnarodnim-proektom-smalog/
P8	Batumi State Maritime Academy (BSMA)	http://bsma.edu.ge/main/page/1431/index.html?fbclid=IwAR3ufTES_cDm5KmSGOtc5jD1DBqhHo4RuGk5sJgZWVbeIHtv5fuy2Ov_CUM
	Social media	https://www.facebook.com/SmaLog2017/posts/1245378752282393?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1244846625668939?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1244018629085072?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1243655735788028?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1243647999122135?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1243037865849815?__tn__=-R https://www.facebook.com/SmaLog2017/posts/1243001312520137?__tn__=-R

Annex 7

The effectiveness of the internship evaluation

The effectiveness of the internship evaluation

Dear Colleague,
During the implementation of the SMALOG project, an internship was carried out for teachers from local universities in your universities (14 and 45 days) in order to improve the qualifications of teachers from UA&GE.
We ask you to evaluate this activity, as well as give your recommendations on the system of professional development of teachers.

* Обязательно

1. Your university: *

- ○ "Tor Vergata" (Roma), Italy
- ○ "La Sapienza" (Roma), Italy
- ○ "University of Applied Sciences: Technology, Business and Design" (Wismar), Germany
- ○ "Silesian University of Technology" (Katowice), Poland

2. In your opinion, was an internship at European universities for teachers from local universities, within the framework of the SmaLog project, an effective way to improve the qualifications of UA&GE teachers? *

- ◯ Definitely an efficient way
- ◯ Rather yes than no
- ◯ Rather no than yes
- ◯ No, this is not an efficient way

3. Please, choose factors that influenced your answer to the previous question. It could be positive and negative factors, depends on your previous answer (select all suitable): *

- ☐ Effective, because during/after the internship, the teachers developed a new course for their university
- ☐ Effective, because during/after the internship, we started joint research activities
- ☐ Effective, because after the internship, the teachers could use new skills in teaching process
- ☐ Effective, because after the internship, we received positive feedback regarding results of internship for local university
- ☐ Not effective because there was no feedback from teachers during/after the internship
- ☐ Not effective because teachers did not participate in the proposed activities during the internship
- ☐ Другое:

4. What, in your opinion, was the most effective way to improve the qualifications of teachers during the implementation of the SmaLog project? Rate the effectiveness from 1 to 5, where 1 is completely ineffective, 5 is a very effective way. *

	1	2	3	4	5
Internship for teachers from local universities in European universities	○	○	○	○	○
Conducting open lectures by European professors at local universities	○	○	○	○	○
Joint scientific work (for example, preparation of joint articles/research), if such cooperation was present	○	○	○	○	○
Communication and counselling, if such cooperation was present	○	○	○	○	○

Provision of information material - presentations, literature, etc.	○	○	○	○	○
Development of the Distance Learning Course for teachers (recall that all European universities were involved as experts in assessing the material posted in the Distance Learning Course)	○	○	○	○	○
Participation of teachers in excursions, if such activity was present	○	○	○	○	○

5. What other ways, based on your experience, can you recommend to improve the qualifications of teachers?

Мой ответ

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Annex 8

SMS Staff SMALOG survey

SMS Staff SMALOG survey

Dear colleagues, please take part in the survey based on the results of the SMS internship.

* Обязательно

Please indicate in which University you travelled? *

- ◯ University of Rome Tor Vergata, Italy
- ◯ Sapienza University of Rome, Italy
- ◯ Politechnika Slaska, Poland
- ◯ Hochschule Wismar, University of applied Science: Technology, Business and Design, Germany

Rate the significance of the knowledge gained during the internship on a 5-point scale

1	2	3	4	5
◯	◯	◯	◯	◯

What aspects were most significant to you during your internship (select no more than 2)

- [ ] Obtaining new knowledge
- [ ] Acquaintance with the skills of teaching and providing material by European colleagues
- [ ] Communication with colleagues from other universities
- [ ] Access to literature
- [ ] Participation in seminars, excursions, meetings
- [ ] Другое: _____

What knowledge gained during the internship do you apply in your further work (topics, area)?

Мой ответ

What skills learned during the internship do you use in your further work?

Мой ответ

How do you apply the knowledge gained during the internship in your work (select all appropriate variants)?

- ◯ Development of new disciplines
- ◯ Development of new training programs for training specialists in the field of city logistics
- ◯ Preparation of lectures and practical work
- ◯ Preparation of methodological recommendations
- ◯ Preparation of articles
- ◯ Development of projects in the area of city logistics and smart transport
- ◯ Другое: _____

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