

KA2 - Cooperation for innovation and the exchange of good practices
Capacity Building in Higher Education
Joint project

Master in Smart Transport and Logistics for Cities / SmaLog

SMALOG project:

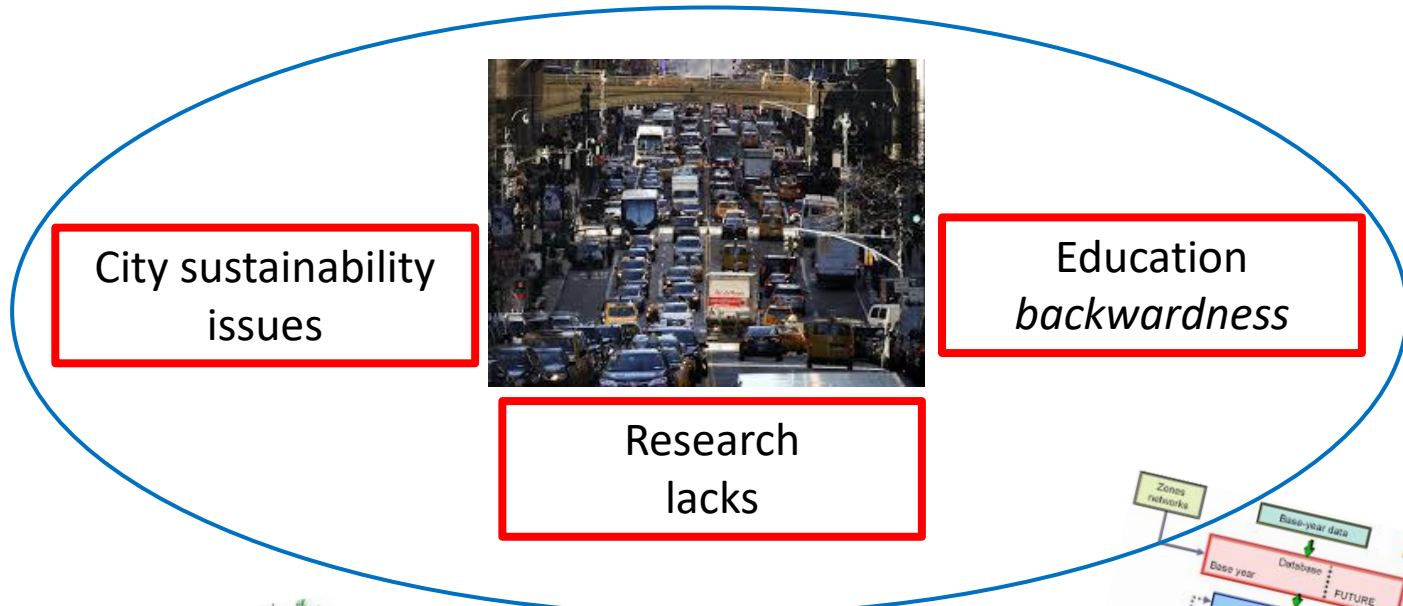
an overview and the main achievements

Final conference, Kharkiv
Antonio Comi, University of Rome Tor Vergata (coordinator)

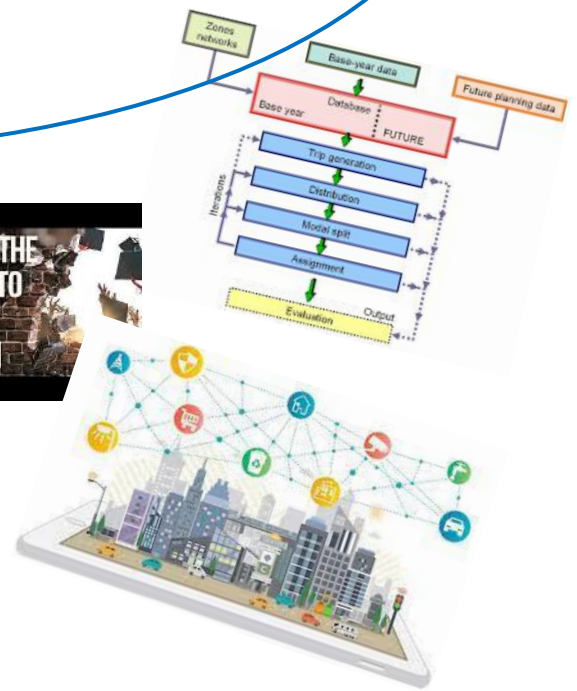
Consortium



Why SmaLog?



SMALOG



All started in Rome about 4 years ago...

- ▶ Official start: October 2017
- ▶ Some concerns
- ▶ A lot of *Interest, Curiosity & Enthusiasm*
- ▶ ...



*Rome Kick-off Meeting
5-7 Dec 2017*

The «*logical framework*»

Then...

to strengthen the role of telematics in transport services
for improving city sustainability and liveability

SmaLog
Masters

Train the
Trainer

SmaLog
Laboratories

Newsletters,
events,
workshops &
seminars
(dissemination)

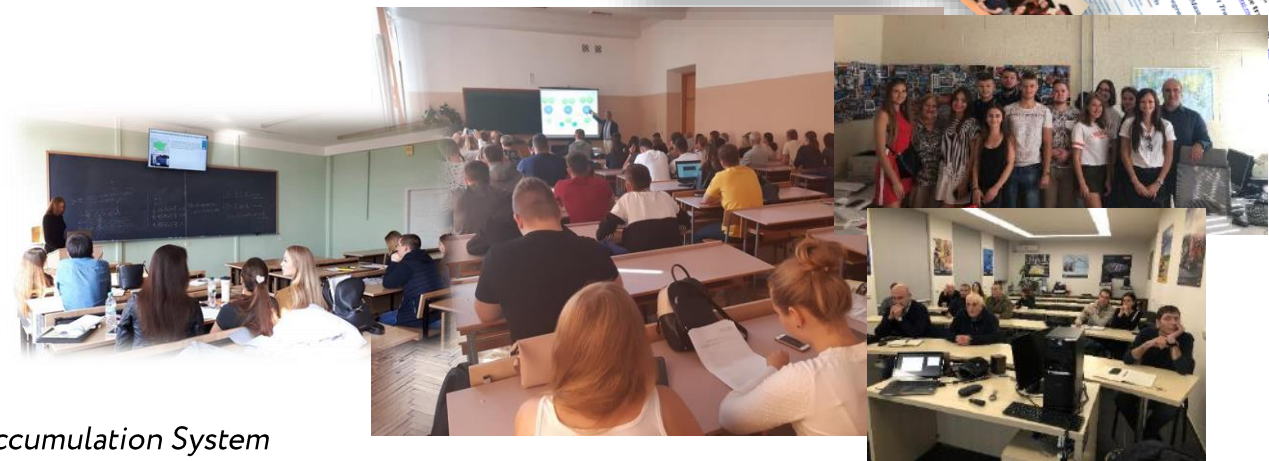
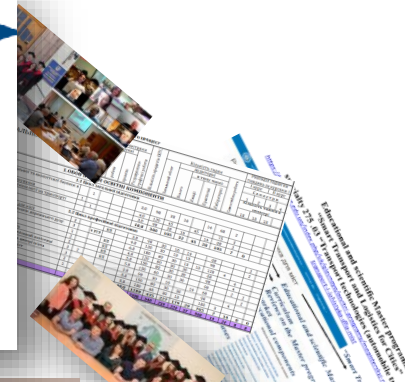
Setting up Smart
Transport & Logistics
networks
IQAS
Internalization strategy
(exploitation)

IF...

SmaLog Masters

What:

- ▶ Establish new master curricula (120/90 ECTS) for engineering and economics faculties on Smart Transport and Logistics for Cities
- ▶ Based on Bologna process standards (full part of educational offers at each PC HEIs)

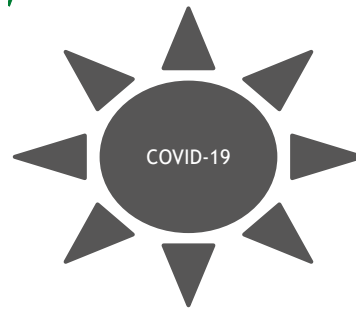


ECTS: European Credit Transfer and Accumulation System

How we get there

Hard preparatory work:

- ▶ No existing Masters in Smart Transport and Logistics for Cities
- ▶ Master curricula needed a formal approval by the Ukrainian and Georgian Authorities
- ▶ Teaching material not fully available
- ▶ Not fully aware of the opportunities offered by new tools and methods for transport systems analysis and simulation
- ▶ Ukrainian and Georgia researchers were mainly out of the main worldwide expert/research networks



Pandemic

Achievements (1)

- ▶ 6 new innovative Master programme “Smart Transport and Logistics for cities”
- ▶ 20 new and upgraded disciplines
- ▶ Acknowledgements: Approval of the Masters by the Ministry of Education; Accredited by the National Agency for Higher Education Quality Assurance (Ukraine; Georgia ongoing)

LIST OF THE EDUCATIONAL-SCIENTIFIC PROGRAM COMPONENTS

Educational Master programme “Smart Transport and Logistics for Cities (SmaLog)”

Aim of the Educational Master programme

Ensuring the training of highly skilled specialists in specialty 275 “Transport technologies”, specialization 275.03 “Transport technologies (on motor transport), educational-scientific program “Smart transport and logistics for cities” are able to design and implement intelligent transport in urban transport systems, make decisions on the development of transport systems and logistics in cities, on the human impact on the safety and stability of urban logistics and assess the efficiency of transport systems in cities

DISTRIBUTION OF CONTENT BY GROUPS OF COMPONENTS AND TRAINING CYCLES

Training cycle	COMPULSORY PART (ECTS / %)	ELECTIVE PART (ECTS / %)
GENERAL TRAINING CYCLE	10 / 8,33	-
CYCLE OF PROFESSIONAL TRAINING	78 / 65	32 / 26,67
TOTAL	88 / 73,3	32 / 26,67

COMPULSORY PART	ELECTIVE PART
<p>General training cycle</p> <ul style="list-style-type: none"> Scientific Research Methodology (3 ECTS, 34 work hours) Scientific and Business Foreign LEanguage (4 ECTS, 34 work hours) Occupational Safety in the Field and Civil Protection (3 ECTS, 34 work hours) <p>Cycle of professional training</p> <ul style="list-style-type: none"> Smart Transport and Logistics for Cities (5 ECTS, 68 work hours) City Passenger Transport (4 ECTS, 51 work hours) Efficiency of Cities Transport Systems (5 ECTS, 68 work hours) Integrated Transport System in City Logistics (6 ECTS, 68 work hours) Traffic Control (5 ECTS, 51 work hours) Traffic Flows Simulating and Management (6 ECTS, 68 work hours) Freight Transportation Simulation (6 ECTS, 68 work hours) Passenger Transport Systems Simulation (5 ECTS, 68 work hours) Course project “Smart Transport and Logistics for Cities” (3 ECTS) Course project “Transport System Simulation” (3 ECTS) Specialised Pre-diploma Training (6 ECTS) Master Thesis (24 ECTS) 	<p>Cycle of professional training</p> <ul style="list-style-type: none"> Smart Transport (5 ECTS, 51 work hours) Traffic Flows Management in the City Center (5 ECTS, 51 work hours) Human and Environmental Impacts, Safety and Sustainability (5 ECTS, 51 work hours) Transportation urban planning (5 ECTS, 51 work hours) Supply Chain Management (5 ECTS, 51 work hours) Logistics Systems Designing (5 ECTS, 51 work hours) Course work “Transportation urban planning” (2 ECTS) <p>SCIENTIFIC PART</p> <ul style="list-style-type: none"> Scientific Research Methodology (3 ECTS) Traffic Flows Simulating and Management (6 ECTS) Freight Transportation Simulation (6 ECTS) Passenger Transport Systems Simulation (5 ECTS) Course project “Transport System Simulation” (3 ECTS) Master thesis (24 ECTS)

*This project has been funded with support from the European Commission. This publication (communication) 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 therein.

Міністерство освіти і науки України
Харківський національний університет міського господарства імені О.М. Бекетова

innovative Curriculum

НАВЧАЛЬНИЙ ПЛАН
другий (магістерський)
(за спеціальністю «Транспорт»)

Класифікація: магістр з транспортних технологій

Строк навчання: 1 рік 9 місяців

на основі: бакалавра

освітня програма: Розумний транспорт і логістика для міст

форма навчання: денна

I. ГРАФІК НАВЧАЛЬНОГО ПРОЦЕСУ

Курс	Вересень	Жовтень	Листопад	Грудень	Січень	Лютий	Березень	Квітень	Травень	Червень	Листопад	Серпень
I	T	T	T	T	T	T	T	T	T	T	T	T
II	T	T	T	T	T	T	T	T	T	T	T	T

ПОЗНАЧЕННЯ: Т – теоретичне навчання, С – екзаменційна сесія, П – практика, К – канікули, МР – підготовка, виконання та захист магістерської роботи.

II. ЗВЕДЕНІ ДАНІ ПРО БЮДЖЕТ ЧАСУ, тижні

Курс	Теоретичне навчання	Екзаменційна сесія	Практика	Підготовка до виконання магістерської роботи	Державна атестація	Канікули	Усього
V	34	6				12	52
VI	17	2	4	14		2	39
Разом:	59	4	14	14	14	14	91
в т.ч. з кредитів	96		24				120
в т.ч. з годин	2880		720				3600

III. ПРАКТИКА

Назва практики	Семестр	Тижні	Кредити	Години
Переддипломна	4	4	6	180

IV. ДЕРЖАВНА АТЕСТАЦІЯ

Назва навчальної дисципліни	Форми укладення атестацій (сесій, атестацій проект (роботи))	Семестр	Тижні	Кредити	Години
Дисципліна професійної підготовки	Магістерська робота	4	13	24	720

*This project has been funded with support from the European Commission. This publication (communication) 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 therein.

Achievements (2)

- ▶ 4 editions, enrolment: 2018, 2019, 2020, 2021
- ▶ 69 graduated students (2018-2020) in the 2 first Master editions
- ▶ 20 master theses under the supervision of EU and PC experts and from the industry sector
- ▶ More than 80% of the 1st generation graduated students employed by transport companies



Achievements (3)

- ▶ 66 students studied at EU universities (physically)
- ▶ One full semester for learning and training activities (physically)
- ▶ Three courses hold remotely for contrasting covid-19 mobility restrictions

	2018-2020
University of Rome Tor Vergata (Italy)	32
“Sapienza” University of Rome- CTL (Italy)	14
Silesian University of Technology (Poland)	9
Hochschule Wismar (Germany)	11



Students visiting the Amazon Distribution Center (FCO1) in Rome



Train the Trainer

What:

- ▶ Supporting Local Academics in planning/organizing the Masters
- ▶ Knowledge transfer of smart transport and logistics good practices in EU
- ▶ Supporting Local Academics in defining learning materials
- ▶ Supporting local administrations in the development of IQAS in HEIs

The collage features several key elements:

- Logos:** Erasmus+ Programme of the European Union and SMA LOG.
- Curriculum Table:** A table with columns for 'НАЗВА НАВЧАЛЬНОЇ ДИСЦИПЛІНИ' (Name of the discipline), 'В.ІВАН ОКІВНИЧОГО ВУЧЕЦЬ' (V. Ivan Okivnichy), and 'Кількість годин' (Number of hours). It lists components like '1.1 Ціліс закладної підготовки' and '1.2 Ціліс професійної підготовки'.
- Course Title:** 'Educational and scientific Master programme "Smart Transport and Logistics for Cities" specialty 275.03 "Transport technologies (automobile transport)"'. It includes a URL: <https://tsi.kname.edu.ua/index.php/tsi/glavnyya/fovsitni-programy/fovgisterskyi-trenovnyy>.
- Workbook Cover:** 'Transport Logistics' by Roman Mamuladze, Meri Gabaidze. The cover shows images of a truck, a map, an airplane, a ship, and a train.
- Classroom:** A photograph of a classroom where students are seated at desks, some using laptops, during a lecture or training session.

Workbook

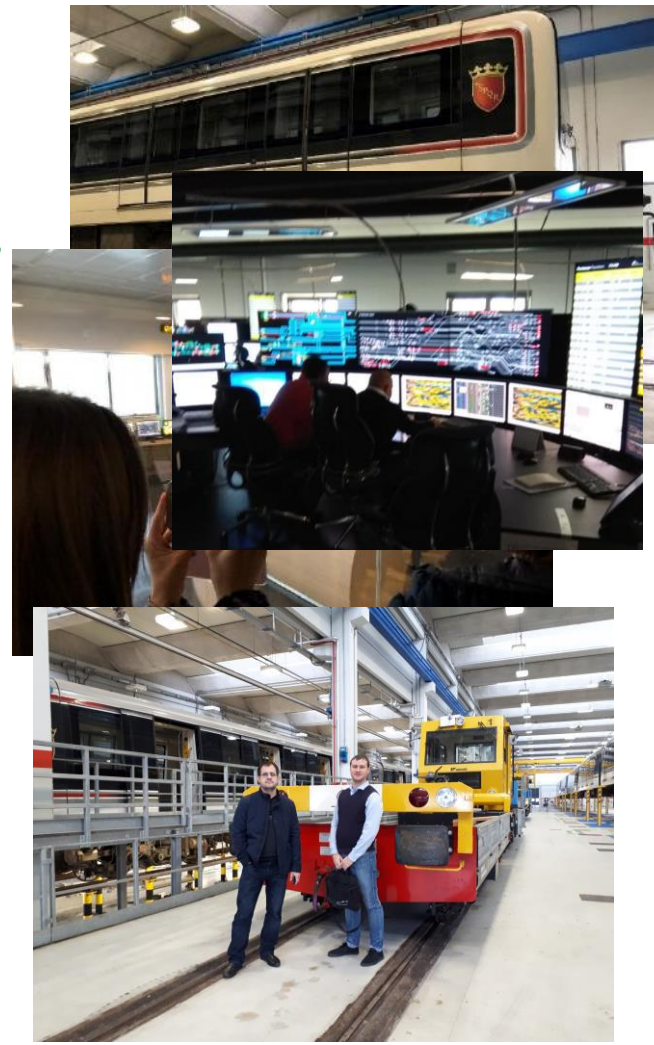
How we get there

- ▶ A selected group of Academics will spend approximately 1,5 month in each EU University involved in the project and will be supported in preparing the materials for the Master classes.
- ▶ Technical visits to institutional bodies involved in smart transport and logistics for cities
- ▶ A selected group of EU visited PC HEIs for more than 1 week for teaching and training activities.
- ▶ Distance Learning Courses in Advanced SmaLog
- ▶ Regional cycles of seminars involving UA and GE staff

Achievements (1)

► 54 PC academics visited EU Universities

	2018-2021
University of Rome Tor Vergata (Italy)	13
“Sapienza” University of Rome- CTL (Italy)	11
Silesian University of Technology (Poland)	18
Hochschule Wismar (Germany)	12



Academics visiting the full automated metro line C in Rome

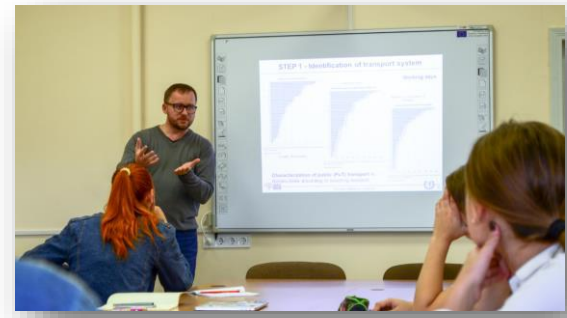
Achievements (2)

► EU academics visited PC Universities (17 visits)

	2018-2021
O. M. Beketov National University of Urban Economy in Kharkiv (Ukraine)	3
National Transport University, Kiev (Ukraine)	4
Lviv Polytechnic National University, Lviv (Ukraine)	2
Zhytomyr Polytechnic State University, Zhytomyr (Ukraine)	4
Batumi State Maritime Academy, Batumi (Georgia)	1
Georgian Technical University, Tbilisi (Georgia)	3



Academics visiting the NTU, Kiev, Ukraine



Academics visiting the NUUE, Kharkiv, Ukraine

Achievements (3)

► Technical visits

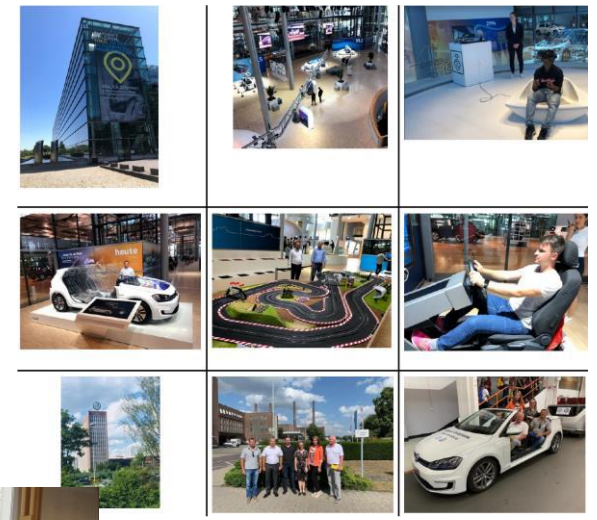


Rome

Katowice



Wismar

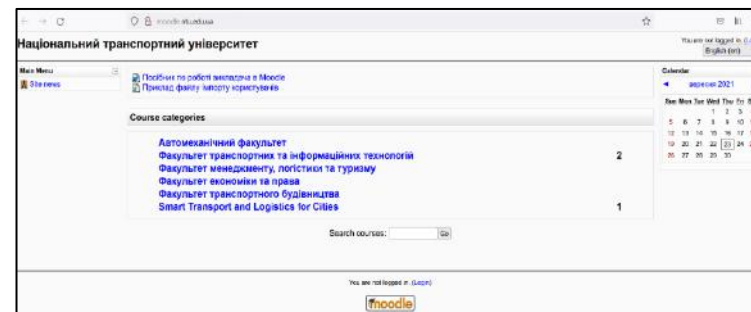


Rome

Achievements (4)

- ▶ 73 staff members from PC HEIs participated to advanced courses and passed the evaluation test (*distance learning advanced course*)

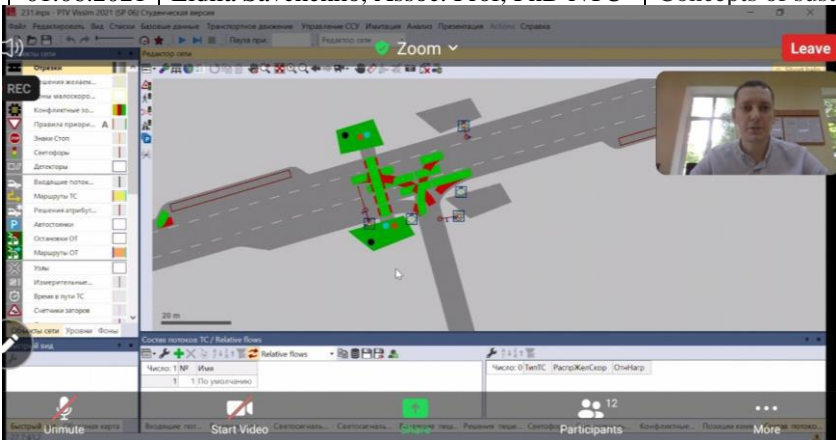
	2018-2021
O. M. Beketov National University of Urban Economy in Kharkiv (Ukraine)	17
National Transport University, Kiev (Ukraine)	26
Lviv Polytechnic National University, Lviv (Ukraine)	8
Zhytomyr Polytechnic State University, Zhythomyr (Ukraine)	6
Batumi State Maritime Academy, Batumi (Georgia)	13
Georgian Technical University, Tbilisi (Georgia)	2
Other	1



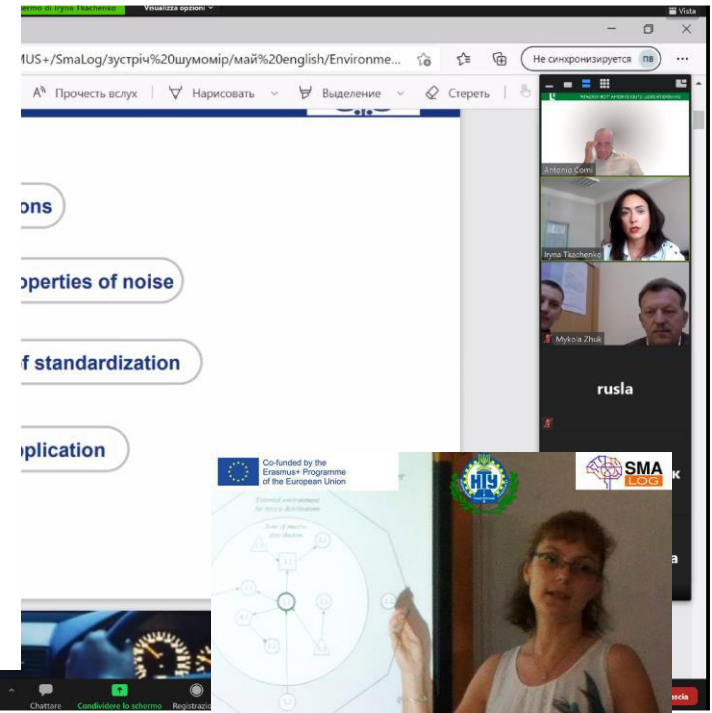
Achievements (5)

► Webinars of teachers' experience exchange between UA and GE Universities

Data	Teacher	Topic
20.05.2021	Rossolov Oleksandr Assoc. Prof, PhD Transport systems and Logistics Department O. M. Beketov National University of Urban Economy in Kharkiv (NUUE)	Lecturing with PTV Visum software in frame of SmaLog modules
26.05.2021	Iryna Tkachenko Assoc. Prof, PhD Transport systems and Logistics Department O. M. Beketov National University of Urban Economy in Kharkiv (NUUE)	Environmental assessment of transport noise using VOLTcraft sound meter
26.05.2021	Assoc. Prof, PhD Ruslana Kolodnytska ZPSU, Department of Automobiles and Transport Technologies	"Smart Transport: Hydrogen Fuel Cells and Biofuels".
01.06.2021	Lidiia Savchenko, Assoc. Prof, PhD NTU	Concepts of sustainable logistics in the



ific flows using PTV
hand modelling using



11/11/2021

1st of June 2021 Open lecture
9:00 a.m. CEST time
10:00 a.m. Ukraine time
11:00 a.m. Georgia time
"Concepts of sustainable logistics in the business context" 17

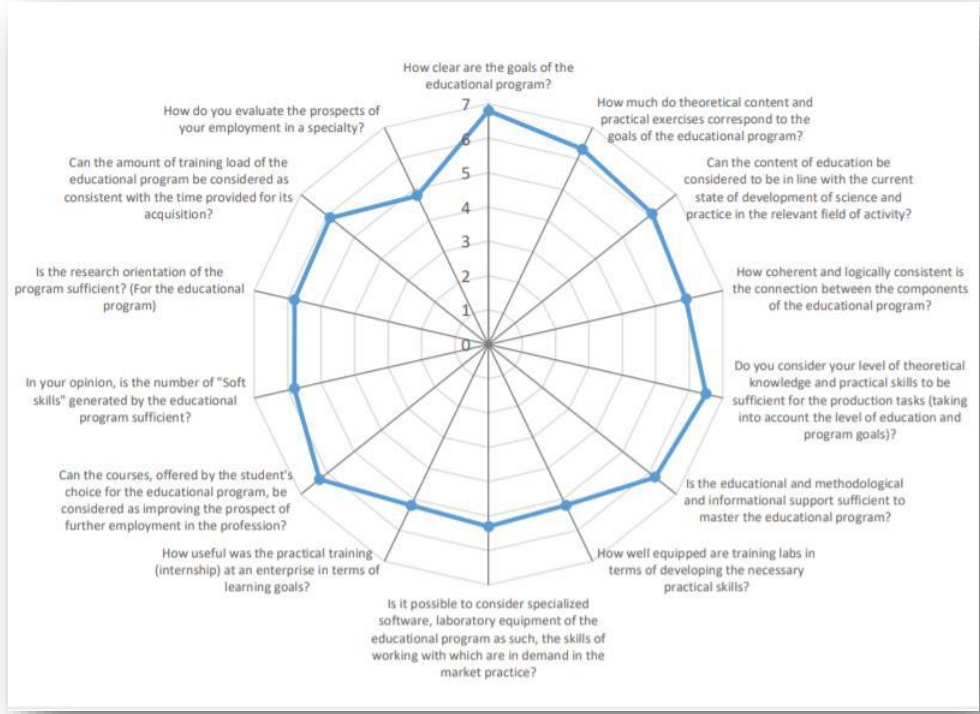
Achievements (6)

► Published text books

The collage displays various educational materials published under the SMALOG program. The books cover topics such as student training methods, quality assurance systems, smart transport and logistics for cities, supply chain management, and transport logistics. Each book cover features the SMA LOG logo and the Erasmus+ logo, indicating their funding source. The titles and authors are clearly visible on each cover.

Achievements (7)

- ▶ Improving of Quality Assurance Systems in local universities – Guidelines, external evaluation, feedbacks from students and teachers and stakeholders



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

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 2017-2092/001-001

INTERNAL QUALITY ASSURANCE SYSTEM DEVELOPMENT

GUIDE FOR ASSURING THE QUALITY OF THE EDUCATIONAL PROGRAMME

SmaLog laboratories

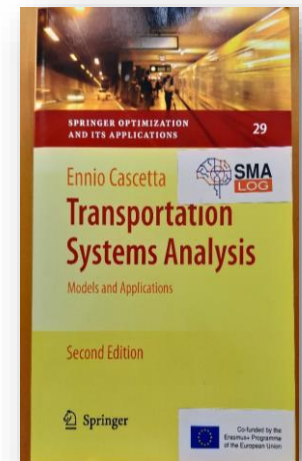
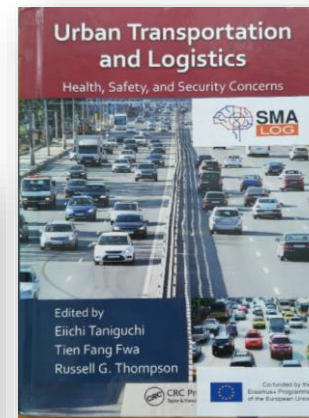
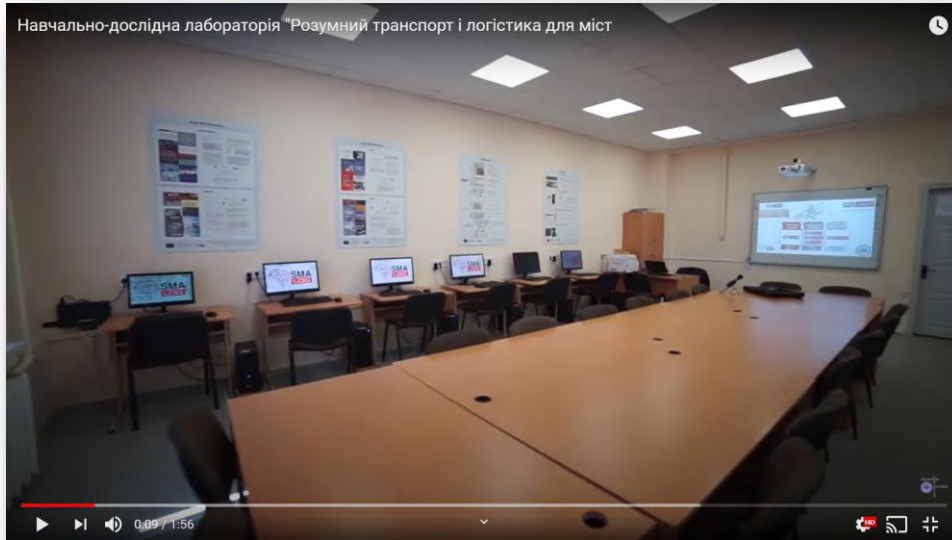
What: *Laboratories* to support both training and research in smart transport and logistics for cities

How we get there:

- ▶ Investigating local needs and identifying innovation to promote
- ▶ Designing laboratories equipment according to real local needs

Achievements (1)

- ▶ One laboratory for each of the 6 Universities
- ▶ *Equipment*: hardware, software, special equipment and books



Newsletters, events, workshops & seminars

What:

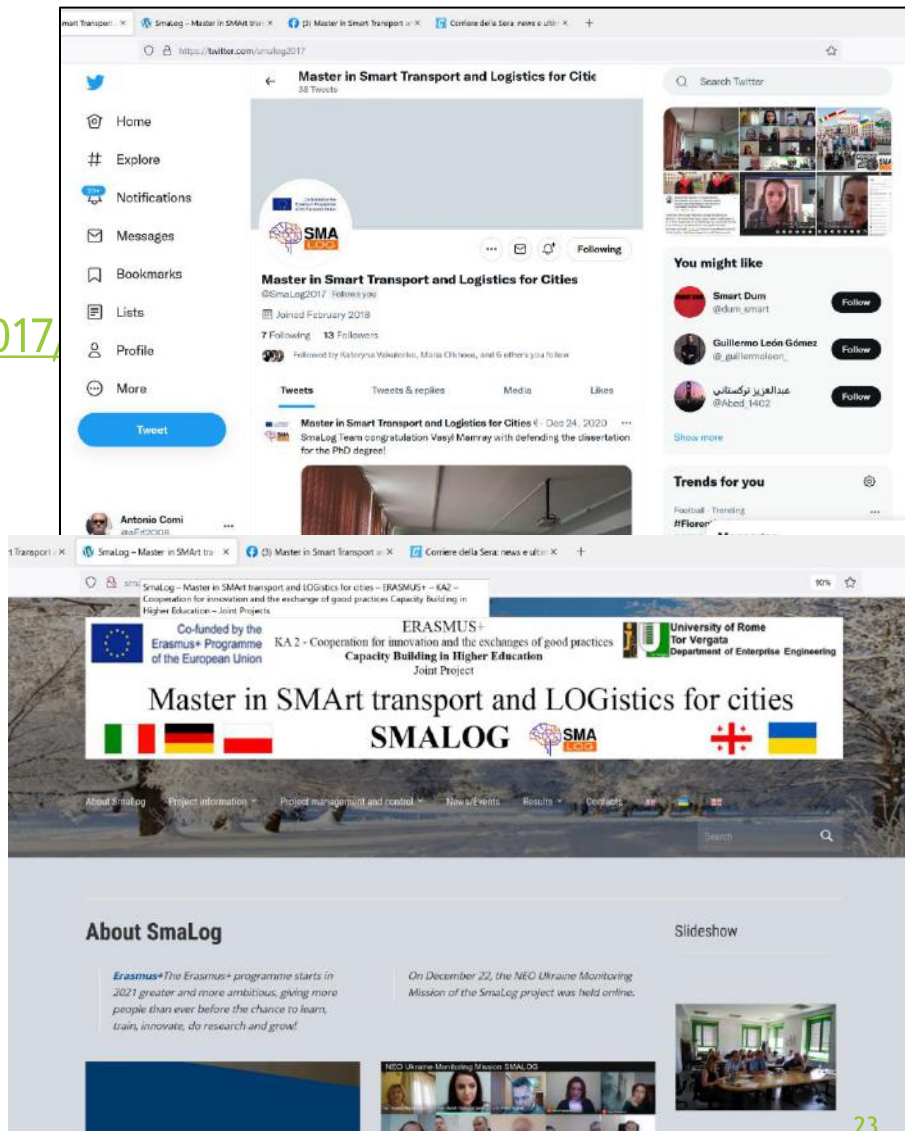
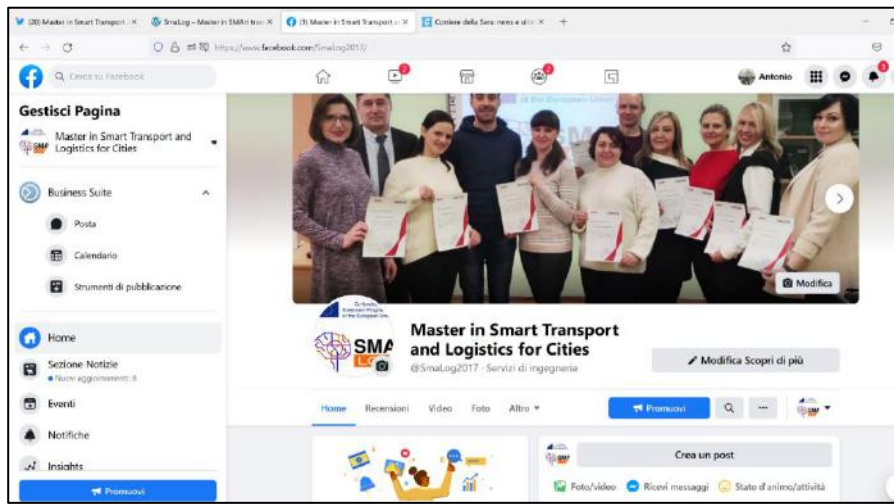
- ▶ Dissemination materials
- ▶ Dissemination events
- ▶ Workshops & seminars
- ▶ Meetings with local stakeholders

How we get there:

- ▶ Assuring to bring knowledge to all potential beneficiaries
- ▶ Promoting dissemination events strictly answering to real local needs
- ▶ Promoting dissemination involving all potential beneficiaries of SmaLog

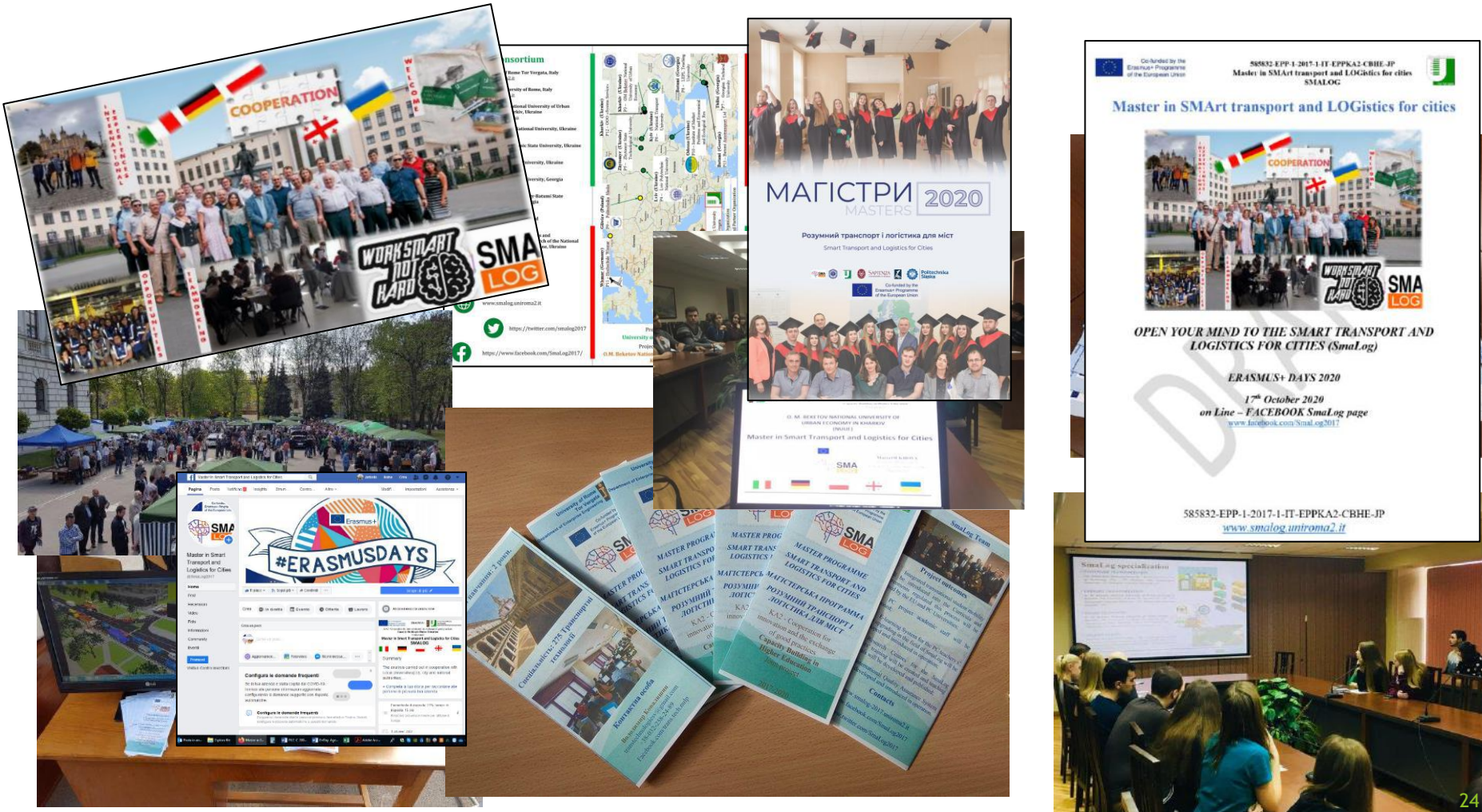
Achievements (1)

- ▶ Project website:
 - <http://www.smalog.uniroma2.it>
- ▶ Facebook page and group:
 - <https://www.facebook.com/SmaLog2017>
- ▶ Twitter page
 - <https://twitter.com/smalog2017>



Achievements (2)

► SmaLog Master brochures, Erasmus+ Days & Open days, CBHE Virtual Fair



Achievements (3)

► Seminars in local universities (about 30)



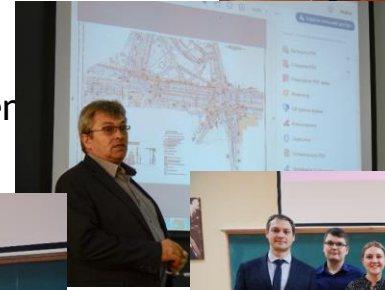
Achievements (4)

► NUUE University meets local stakeholders

August 2018: Kharkiv Meeting, Department of Infrastructure in Kharkiv, LTD "KOMKON TRAFIC"



November 2019: Kharkiv, The Director of the Infrastructure Department of the Kharkiv City Council gave an open lecture



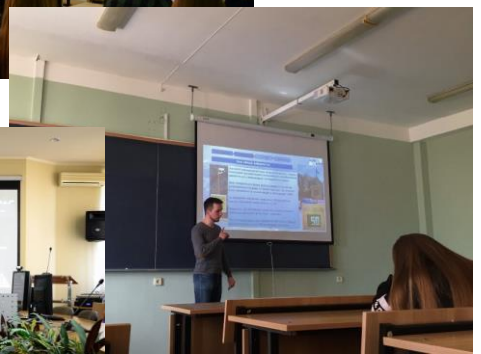
March 2020: Kharkiv, branch meeting of leading specialists of TDV "ATP 16363"



March 2020: Kharkiv, Meeting with the official representative logistics company "GLOBAL OCEAN LINK"



March 2020: Kharkiv, Lecture by a representative of LTD "KOMKON TRAFIC"



September 2020: Kharkiv, Meeting with the official representative of PTV Group Ukraine Dmytro Bespalov



<https://k-tsl.com/>

Achievements (5)

► LPNU University meets local stakeholders

October 2018: Meeting and Master Programme publishing & presentation at Lviv Polytechnic National University

June 2018: Meeting at Lviv Polytechnic with stakeholders

March 2019: Smalog at the Ukrainian Scientific and Teoretical Conference

October 2019: Discussion of the mobility plan (Andriy Biliy, Deputy Director of the Department of Housing and Infrastructure of Lviv

April 2020: Meeting at Lviv Polytechnic with stakeholders (Open Days)



Achievements (6)

► ZPSU University meets local stakeholders

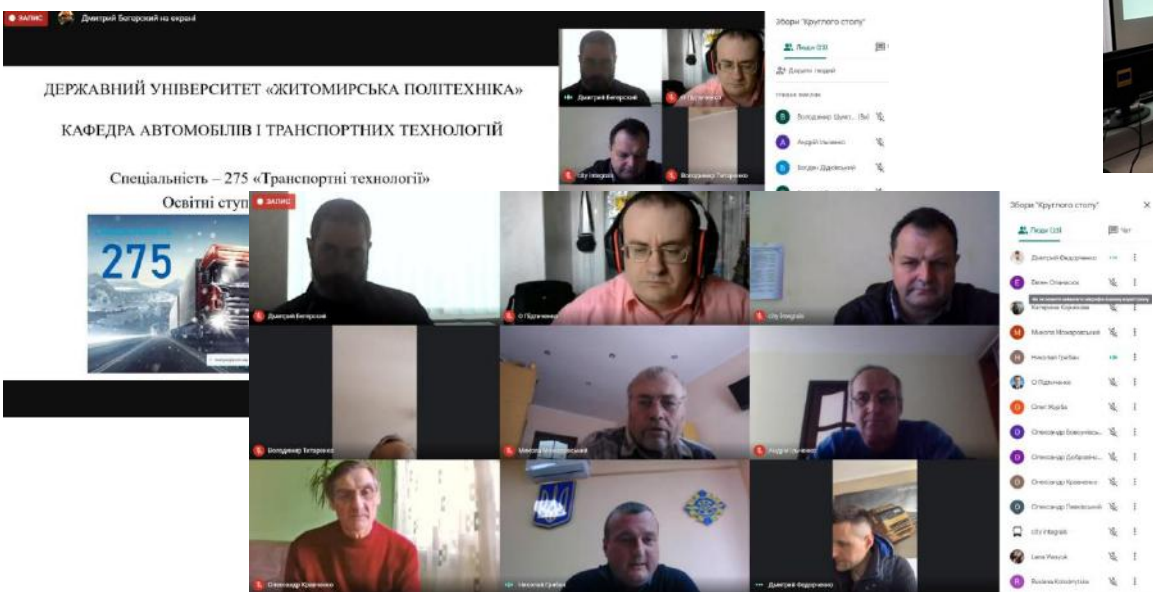
April, 2021: Zhytomyr, Online meeting with stakeholders:

<https://news.ztu.edu.ua/2021/04/kruglyj-stil-zi-stejkhoderamy-zaspetsialnistyu-275-03-transportni-tehnologiyi-na-avtomobilnomu-transporti/>

- Department of Transport and Regional Development in Zhytomyr region;
- PJSC Zhytomyr ATP 11854
- Ukrainian transport safety Department in Zhytomyr region;
- logistics company "Alfakom"
- PE "Sheriff"

April, 2019: Zhytomyr, Forum of employers (stakeholders):

- PJSC "Zhytomyr-Auto"
- PJSC "Zhytomyr Auto International"
- LLC "Veltest"
- PE "Sheriff"
- Zhytomyr regional department of road construction and infrastructure management
- Communal enterprise "Information center"
- Department of the State Service for Transport Safety in Zhytomyr Region



Achievements (7)

▶ NTU University meets local stakeholders

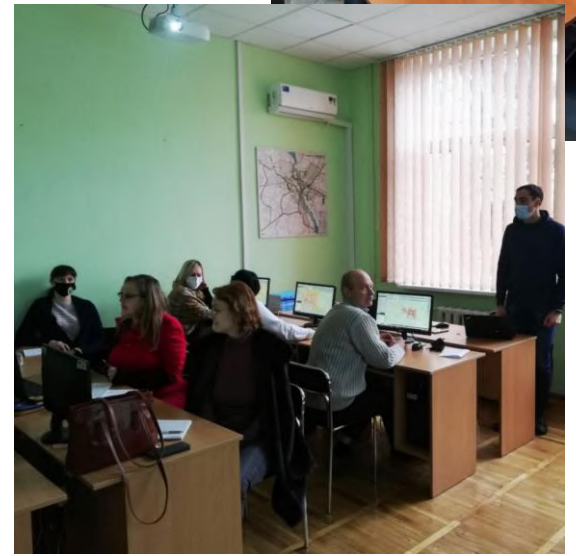
From 2018 to 2021, 9 meetings were held:

- "Institute of the General Plan of Kyiv" (2018,2019,2020)
Transport modeling (PTV Vissim) and the use of its results in the development of the General plan of Kiev
- Department of the patrol police in Kyiv (2019)
Practical activities to ensure road safety in Kiev
- A + S Consult GmBH (2019, 2020)
Transport micromodeling algorithms using PTV Vissim software
- "Institute" Kievdormostproekt"(2019,2020,2021)
Implementation of modern technologies for the design of transport infrastructure elements in the cities of Ukraine

"Institute" Kievdormostproekt"



A + S Consult GmBH



Institute of the General Plan of Kyiv

Achievements (9)

► Department of Transport of Batumi meets local stakeholders

May 2018: Ministry of Economy of Adjara

May 2019: meeting with Ministry of Education

April 2020: meeting with Batumi Port

June 2020: Meeting with Employers,
Maritime Transport Agency and
City administration

March 2021: meeting with Port of
Poti administration

June 2021: MoU signing ceremony
with Ministry of Environment



Achievements (10)

► Georgian Technical University meets stakeholders

May 2018: meeting with Ministry of Education

March 2019: meeting with Ministry of Regional
Development

October 2020: meeting with Tbilisi City Hall

December 2020: Meeting with Employers of Land Transport Agency

March 2021: meeting with local transport research organizations



Setting up SmaLog Networks

What:

- ▶ Build an international and national coordinated university research network on smart transport and logistics for cities involving local universities in the wider European network of research centres and universities
- ▶ Involvement of PC Universities in international smart transport and logistics for cities research

How we get there:

- ▶ Involving the participation in high level conferences/workshops on smart transport and logistics for cities
- ▶ Submitting research works to high level journals
- ▶ Participation in exchanges of teachers/staff
- ▶ Starting PhD course accreditation involving foreign professors

Achievements (1)

- ▶ Participation in high level conference on transportation and advanced educational issues
- ▶ Publishing in high impacting journal indexed in Scopus and WoS
- ▶ Participation in Fulbright Programme

Available online at www.sciencedirect.com

ScienceDirect
Transportation Research Procedia 47 (2020) 492–498

Transportation Research Procedia
www.elsevier.com/locate/procedia

AIIT 2nd International Congress on Transport Infrastructure and Systems in a changing world (TIS ROMA 2019), 23rd-24th September 2019, Rome, Italy

Investigating bus travel time and predictive models: a time series-based approach

Antonio Comi^a, Mykola Zhuk^b, Volodymyr Kovalyshyn^b, Volodymyr Dmytrov^b

^a Department of Engineering, University of Roma Tor Vergata, Italy
^b Department of Transport Engineering, 2017-2018, National Technical University of Ukraine "Kyiv Polytechnic Institute"

Available online at www.sciencedirect.com

ScienceDirect
Transportation Research Procedia 47 (2020) 497–504

Transportation Research Procedia
www.elsevier.com/locate/procedia

AIIT 2nd International Congress on Transport Infrastructure and Systems in a changing world (TIS ROMA 2019), 23rd-24th September 2019, Rome, Italy

The driver's visual perception research to analyze pedestrian safety at twilight

Bryan González-Hernández^a, Davide Shingo Usami^a, Oleksii Proskonenko^b, Dmytro Burko^b, Andrii Galkin^b, Oleksii Lobashov^b, Luca Persia^a

^a Centre of Research in Transport & Logistics (CRTL), "Sapienza" University of Rome, via Ardeatina 44, Rome 00185, Italy
^b Department of Transport Engineering, 2017-2018, National Technical University of Ukraine "Kyiv Polytechnic Institute"

Available online at www.sciencedirect.com

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Transportation Research Procedia 47 (2020) 497–504

Transportation Research Procedia
www.elsevier.com/locate/procedia

AIIT 2nd International Congress on Transport Infrastructure and Systems in a changing world (TIS ROMA 2019), 23rd-24th September 2019, Rome, Italy

Development and implementation of Master programme in Smart Transport and Logistics for Cities within the Erasmus+ project of the case of O. M. Beketov National University of Urban Economy in Kharkiv

Oleksii Lobashov^a, Maria Otkhova^a, Dmytro Roslavtsev^a, Kateryna Vakulenko^a

^a Department of Transport Engineering, 2017-2018, National Technical University of Ukraine "Kyiv Polytechnic Institute"

19 Balkan Region Conference on Engineering and Business Education
12th International Conference on Engineering and Business Education

Development and implementation of Master programme in Smart Transport and Logistics for Cities

Antonio Comi
University of Roma Tor Vergata, Rome, Italy
comiantonio@uniroma2.it

Oleksii LOBASHOV
O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine
lobashov@gmail.com

Maria ODKHOVA
O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine
odkhova@gmail.com

Dmytro ROSLAVTSEV
O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine
droslavtsev@gmail.com

Kateryna VAKULENKO
O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine
vakulenko@ukr.net

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Development and implementation of Master programme in Smart Transport and Logistics for Cities within the Erasmus+ project of the case of O. M. Beketov National University of Urban Economy in Kharkiv

Oleksii Lobashov^a, Maria Otkhova^a, Dmytro Roslavtsev^a, Kateryna Vakulenko^a

^a Department of Transport Engineering, 2017-2018, National Technical University of Ukraine "Kyiv Polytechnic Institute"

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^a Department of Transport Engineering, 2017-2018, National Technical University of Ukraine "Kyiv Polytechnic Institute"



GREEN CITIES
URBAN LOGISTICS FOR SUSTAINABLE CITIES
Sotgianni, 23-24 September 2020

Antonio Comi^a and Lidia Savchenko^b
^a Department of Engineering, University of Roma Tor Vergata, via Ardeatina 44, Rome 00185, Italy
^b National Technical University of Ukraine "Kyiv Polytechnic Institute"

Analysis of environment-friendly transport for last-mile logistics

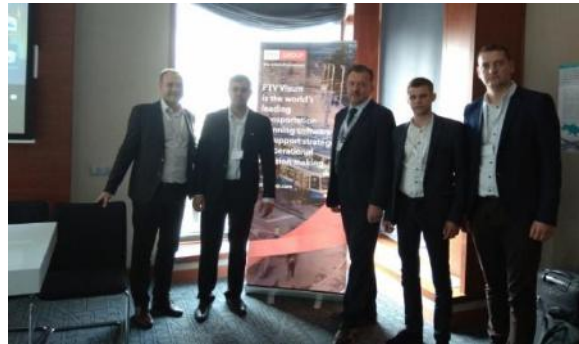
Antonio Comi^a, Lidia Savchenko^b
^a Department of Engineering, University of Roma Tor Vergata, Italy
^b Department of Logistics, National Aviation University, Ukraine

Keywords: City logistics, e-commerce, Last-mile logistics, Supply delivery



Achievements (2)

- ▶ Active involvement in thematic workshops were organised jointly with international (e.g. from Australia, China, Norway) experts on smart transport and logistics for cities



Achievement (3)

► Agreements of cultural and scientific collaboration between each partner country HEIs and programme country HEIs

GENERAL AGREEMENT OF CULTURAL AND SCIENTIFIC COLLABORATION

TOR VERGATA UNIVERSITY OF ROME

AND

LEPL TEACHING UNIVERSITY-BATUMI STATE MARITIME ACADEMY (BATUMI, GEORGIA)

The University of Rome Tor Vergata, represented by the Rector Prof. Orazio Schillaci and the LEPL Teaching University-Batumi State Maritime Academy (Batumi, Georgia), represented by its Rector, Prof. Irakli Sharabidze, considering that the development of a cultural and direct scientific collaboration would be of mutual advantage to both Institutions, agree to the following:

Article 1: Research and teaching collaboration of common interest will be activated.

Such a collaboration will be effected on terms of equality and of reciprocal advantage, allowing the possibility of defining other research areas by mutual consent, in view, however of the possibilities available as well as of the experience acquired by the scholars of the Institutions;

Article 2: In order to achieve the aims under Article 1, collaboration may be effected as follows:

- exchange of visit by experts;
- exchange of information, documentation and scientific publications;
- study meetings, seminars and courses on subject matters foreseen by the Agreement;
- exchange of researchers and teachers for period of teaching;
- exchange of students (graduate, PhD and postgraduate, Clinical Fellowship);
- exchange of administrative staff;
- joint implementation of research projects;
- drawing up of common study programmes aiming at joint degrees at all levels, recognized by both Institutions;

Article 3: For the realization of points outlined in article 2, the reciprocal exchange of scientific staff is foreseen.

GENERAL AGREEMENT OF CULTURAL AND SCIENTIFIC COLLABORATION

TOR VERGATA UNIVERSITY OF ROME

BETWEEN

THE UNIVERSITY OF ROME TOR VERGATA

AND

LVIV POLYTECHNIK NATIONAL UNIVERSITY

The University of Rome Tor Vergata, represented by the Rector Prof. Orazio Schillaci and the Lviv Polytechnic National University, represented by the Rector Prof. Mykola Bobalo, considering that the development of a cultural and direct scientific collaboration would be of mutual advantage to both Institutions, agree to the following:

Article 1: Research and teaching collaboration of common interest will be activated.

Such a collaboration will be effected on terms of equality and of reciprocal advantage, allowing the possibility of defining other research areas by mutual consent, in view, however of the possibilities available as well as of the experience acquired by the scholars of the Institutions;

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- exchange of administrative staff;
- joint implementation of research projects;
- drawing up of common study programmes aiming at joint degrees at all levels, recognized by both Institutions;

Article 3: For the realization of points outlined in article 2, the reciprocal exchange of scientific staff is foreseen.

The expenses are to be met by the Institutions, according to reciprocity.

GENERAL AGREEMENT OF CULTURAL AND SCIENTIFIC COLLABORATION

TOR VERGATA UNIVERSITY OF ROME

BETWEEN

THE UNIVERSITY OF ROME TOR VERGATA

AND

ZHYTOMYR POLYTECHNIC STATE UNIVERSITY

The University of Rome Tor Vergata, represented by the Rector Prof. Orazio Schillaci and the Zhytomyr Polytechnic State University, represented by the Rector Prof. Mykola Bobalo, considering that the development of a cultural and direct scientific collaboration would be of mutual advantage to both Institutions, agree to the following:

Article 1: Research and teaching collaboration of common interest will be activated.

Such a collaboration will be effected on terms of equality and of reciprocal advantage, allowing the possibility of defining other research areas by mutual consent, in view, however of the possibilities available as well as of the experience acquired by the scholars of the Institutions;

Article 2: In order to achieve the aims under Article 1, collaboration may be effected as follows:

- exchange of visit by experts;
- exchange of information, documentation and scientific publications;
- study meetings, seminars and courses on subject matters foreseen by the Agreement;
- exchange of researchers and teachers for short period of teaching;
- exchange of students (undergraduate and post);
- drawing up of common study programmes aiming at joint degrees at all levels, recognized by both Institutions;

Article 3: For the realization of points outlined in article 2, the reciprocal exchange of scientific staff is foreseen.

The expenses are to be met by the Universities, according to reciprocity.

Article 4: The terms and duration of the collaboration as under Article 2 and the study dates, will be communicated to the host Universities two months before the starting date of the visit.

Memorandum of Understanding

For working to increase their cooperation

O.M. Beketov National University of Urban Economy in Kharkiv, 17, Miroslav Shchegolev Street, Kharkiv, 61002, Ukraine
 Kharkiv, Ukraine
 Tel: +38 057 706 15 48, +38 057 907 33 36;
 Fax: +38 057 706 15 48, +38 057 706 15 54;
 www.beketov.ua
 Rector: Roman Kozlovskiy
 represented by its Rector: Prof. Volodymyr Vokojmyr

Sapienza University of Technology
 Alfabio 10/A
 44-190 Giovinetti, POLAND
 Tel: +48 52 237 3008, Fax: +48 22 237 4833
 http://www.polsl.pl, Email: R-RE@polsl.pl
 represented by its Rector: Professor Arkadiusz Męczyński
 conclude the following agreement:

The terms of the agreement are as follows:

Article 1: The two educational Partners wish to establish cooperation and exchange in all academic areas of mutual interest, namely: education, research, administrative management.

Article 2: The purpose of this general Cooperation Agreement can include, but is not limited to the following activities:

- Exchange of research and teaching personnel;
- Exchange of students;
- Reciprocity exchange students during industrial training in factories;
- Academic and research programs;
- Distance diploma program;
- All administrative management tasks of mutual interest.

Article 3: Each party appoints a Coordinator of the cooperative program.
 Coordinator for the O.M. Beketov National University and Urban Economy in Kharkiv is: Ilyikh Nalykayev - Director of Center of urban social relations and education
 Coordinator for the Sapienza University of Technology is: Prof. Marek Pawelowski, PhD, DSc., Vice Rector for Science and Development

Any specific activity shall be the subject of mutual consent and approval of both Universities. The detailed terms of each activity shall be discussed and agreed upon in writing, by the Deans of the

GENERAL AGREEMENT OF CULTURAL AND SCIENTIFIC COLLABORATION

BETWEEN

THE UNIVERSITY OF ROME TOR VERGATA

AND

BEKETOV NATIONAL UNIVERSITY OF URBAN ECONOMY IN KHARKIV

The University of Rome Tor Vergata, represented by the Rector Prof. Orazio Schillaci and the Beketov National University of Urban Economy in Kharkiv, represented by the Rector Prof. Volodymyr Vokojmyr, considering that the development of a cultural and direct scientific collaboration would be of mutual advantage to both Universities, agree to the following:

Article 1: Research and teaching collaboration in the fields of Transport and Logistics will be activated.

Such a collaboration will be effected on terms of equality and of reciprocal advantage, allowing the possibility of defining other research areas by mutual consent, in view, however of the possibilities available as well as of the experience acquired by the scholars of the Universities;

Article 2: In order to achieve the aims under Article 1, collaboration may be effected as follows:

- exchange of visit by experts;
- exchange of information, documentation and scientific publications;
- study meetings, seminars and courses on subject matters foreseen by the Agreement;
- exchange of teachers for short period of teaching;
- exchange of students (undergraduate and post);
- drawing up of common study programmes aiming at joint degrees at all levels, recognized by both Institutions;

Article 3: For the realization of points outlined in article 2, the reciprocal exchange of scientific staff is foreseen.

The expenses are to be met by the Universities, according to reciprocity.

Article 4: The terms and duration of the collaboration as under Article 2 and the study dates, will be communicated to the host Universities two months before the starting date of the visit.

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workshops &
seminars
(dissemination)

Setting up
Smart Transport &
Logistics networks
IQAS
Internalisation
strategy
(exploitation)

Contacts



www.smalog.uniroma2.it



info@smalog.uniroma2.it



Contact person (coordinator):
Prof. Antonio Comi

comi@ing.uniroma2.it



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