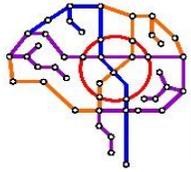




Co-funded by the  
Erasmus+ Programme  
of the European Union



**SMA**  
**LOG**

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

**Our achievements and outcomes**

Mariia Olkhova

O. M. Beketov National University of Urban Economy in Kharkiv

Final conference  
5<sup>th</sup> of October 2021  
Kharkiv

# Our achievements

- ❑ 55 Students
- ❑ 20 Teachers
- ❑ 10 Researchers
- ❑ 1 Laboratory
- ❑ 7 enterprises of labour marker
- ❑ Personal life (**difficult to count**😊)
- ❑ Future and Sustainability



# Logo creator and winner

**Sergii Perov,**

Master student of Smalog in NUUE (2018-2020)

*The logo of the project was selected among the options developed by the consortium members at the beginning of the project.*

*He received a gift from the coordinator - a watch.*



# Students

❑ New innovative **Master programme** “Smart Transport and Logistics for cities” is accredited by the National Agency for Higher Education Quality Assurance (Ukraine).

- ❑ Studying in EU universities: academic + industrial experience
- ❑ Joint supervision during the writing of the theses (EU+NUUE)
- ❑ Lectures of EU professors
- ❑ Up-to-date knowledge and skills that correspond to labour maker



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

**Aim of the Educational Master programme**

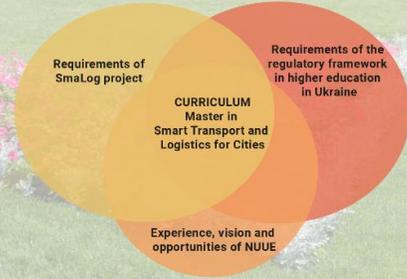
Ensuring the training of highly skilled specialists in specialty 275 “Transport technologies”, specialization 275.03 “Transport technologies (on motor transport), educational-scientific program “Smart transport and logistics for cities” are able to design and implement intelligent transport in urban 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

**LIST OF THE EDUCATIONAL-SCIENTIFIC PROGRAM COMPONENTS**

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

**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
<b>TOTAL</b>	<b>88 / 73,3</b>	<b>32 / 26,67</b>



Requirements of SmaLog project

Requirements of the regulatory framework in higher education in Ukraine

EXPERIENCE, VISION AND OPPORTUNITIES OF NUUE

CURRICULUM Master in Smart Transport and Logistics for Cities



# Students

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❑ Studying in EU universities: academic + industrial experience

❑ Joint supervision of the theses (EU)

❑ Lectures of EU

❑ Up-to-date knowledge that correspond to



# Students

- ❑ New innovative **Master programme** “Smart Transport and Logistics for cities” is accredited by the National Agency for Higher Education Quality Assurance (Ukraine).
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Co-funded by the Erasmus+ Programme of the European Union

O. M. BEKETOV NATIONAL UNIVERSITY OF URBAN ECONOMY IN KHARKIV

Transport Systems and Technologies Faculty  
Transport Systems and Logistics Department

**ASSESSING TACTICAL AND OPERATIONAL CITY LOGISTICS MEASURES: FREIGHT VEHICLE FLOW MODELLING**

Completed: 2nd year student, of the group М-РозТранс 2018-1  
Anna Mykhalenko

Educational and scientific program  
Smart Transport and Logistics for Cities  
Specialty 275.03 «Transport Technology (by Automobile Transport)»

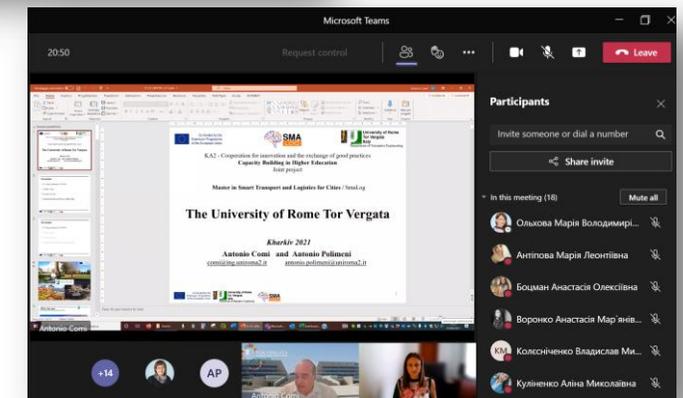
Supervisor: Associate Professor *Mariia Olkhova*  
Consultant: Professor *Antonio Comi*  
(Tor Vergata University of Rome)



# Students

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# Students

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- ❑ Lectures of EU professors
- ❑ Up-to-date knowledge and skills that correspond to labour maker

Student's academic performance  
**91 (from 100)**

Number of employed **90 %**



# Teachers

- ❑ Training and fruitful collaboration with EU scholars (Curriculum and Syllabi developed): mobility and distance
- ❑ Industrial internship at EU enterprises
- ❑ Improving skills and meeting new educational demand
- ❑ Joint Book published
- ❑ Collaboration after the project lifetime

## Educational content

Scientific and Educational Master program

1 year 9 months

120 ECTS

1 innovative Curriculum

12 new and upgraded disciplines

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

ЗАТВЕРДЖЕНО  
Вченою радою ХНУМХ ім. О.М. Бекетова  
Протокол від \_\_\_\_\_ 2018 р.р.  
Голова Вченої ради \_\_\_\_\_ Бабак

**НАВЧАЛЬНИЙ ПЛАН**  
другий (магістерський)

назва спеціальності: \_\_\_\_\_ Кваліфікація: магістр з транспортних технологій  
галузь знань: 27 Транспорт

спеціальність: 275 Транспортні технології (за видами) Строк навчання: 1 рік 9 місяців  
спеціалізація: 275.03 Транспортні технології на автомобільному транспорті 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	Січень
I	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т
II	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т

ПІ. ЗВЕДЕНІ ДАНІ ПРО БЮДЖЕТ ЧАСУ, тижні

Курс	Теоретичне навчання	Експериментальна освіта	Практика	Виконання наукової роботи	Державна атестація	Канікули	Усього
V	34	6					52
VI	17	2	4	14			39
Разом:	51	8	4	14			91
в т.ч. семінари	36			24			60
всього	2880		720				3600

ПІІ. ПРАКТИКА

Назва практики	Семестр	Тижні	Кредити	Години
Переддипломна	4	4	6	180

ПІІІ. ДЕРЖАВНА АТЕСТАЦІЯ

Назва навчальної дисципліни	Форма державної атестації (захист, дисертація, захист курсової роботи)	Семестр	Тижні	Кредити
Дисципліни професійної підготовки	Магістерська робота	4	13	24

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ  
Харківський національний університет міського господарства імені О.М. Бекетова

ОСВІТНЬО-НАУКОВА ПРОГРАМА  
«Розумний транспорт і логістика для міст»

рівень вищої освіти: Другий (магістерський)  
ступінь вищої освіти: Магістр  
за спеціальністю: 275 Транспортні технології (за видами)  
спеціалізацією: 275.03 Транспортні технології на автомобільному транспорті  
галузь знань: 27 Транспорт

ЗАТВЕРДЖЕНО ВІСНОВОЮ РАДОЮ  
Голова вченої ради \_\_\_\_\_ В.М. Бабак  
Протокол № 12 від 06.07.2018 р.

Освітня програма вводить в дію з 02.08.2018 р.  
(вказ № 218-01 від 02.08.2018 р.)



# Teachers

❑ Training and fruitful collaboration with EU scholars (Curriculum and Syllabi developed): mobility and distance

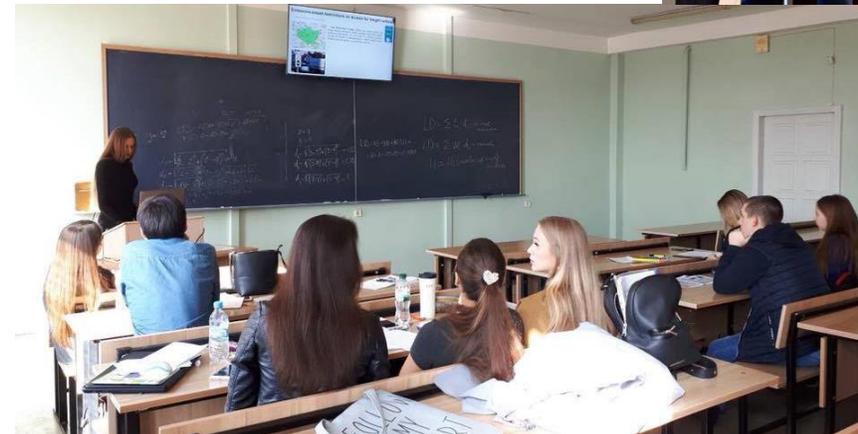
❑ Industrial internship at EU enterprises

❑ Improving skills



# Teachers

- ❑ Training and fruitful collaboration with EU scholars (Curriculum and Syllabi developed): mobility and distance
- ❑ Industrial internship at EU enterprises
- ❑ Improving skills and meeting new educational demand
- ❑ Collaboration after the project lifetime



# Researchers

- ❑ Fruitful collaboration with EU scholars: mobility and distance – part of worldwide scientific communities
- ❑ Scientific publications, namely with EU scholar in high impact journals
- ❑ Participation in new scientific projects



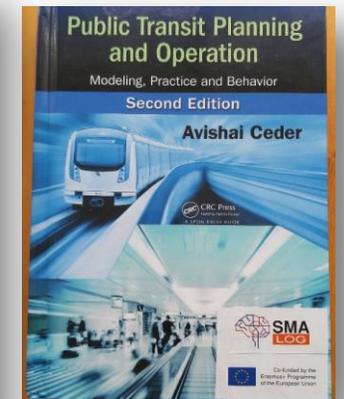
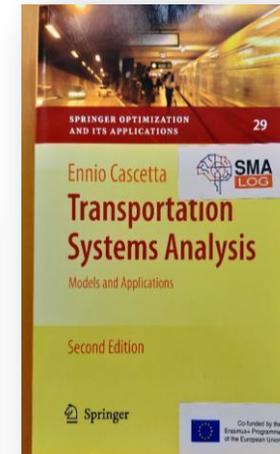
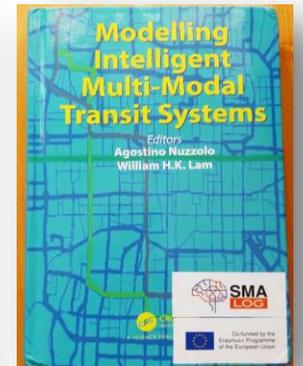
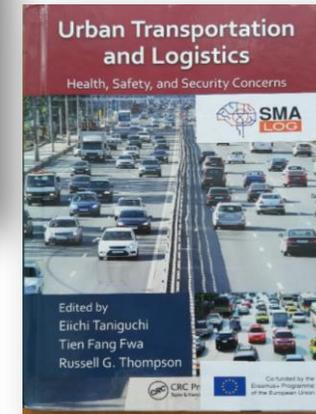
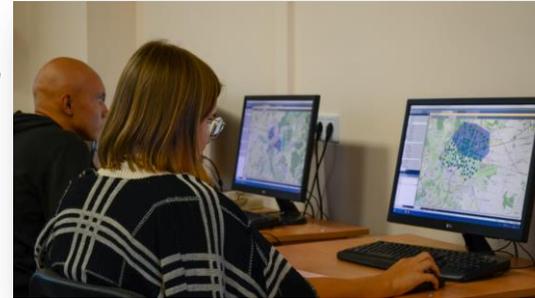
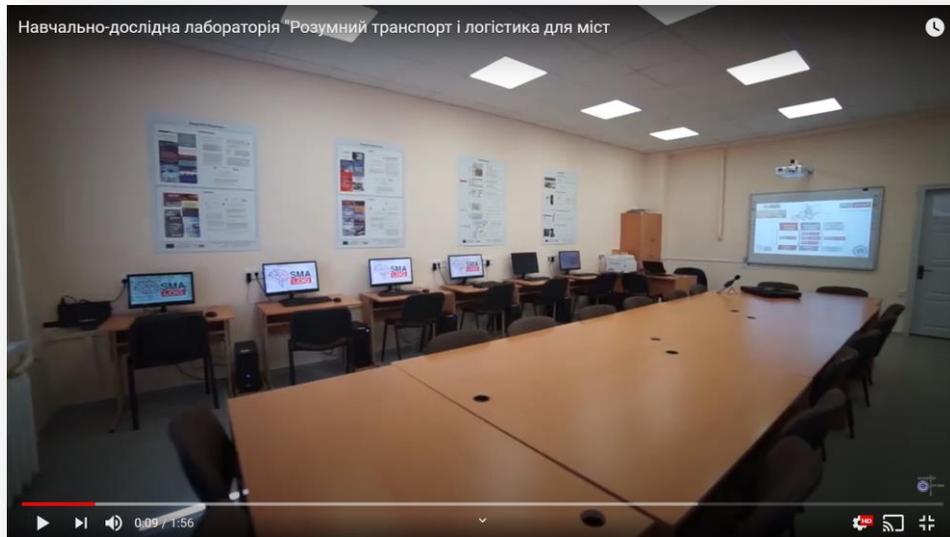
- 5 Conference proceedings
- 3 scientific papers
- 1 Application for Horizon 2020
- 1 Fulbright project (prof. Oleksandr Rossolov)
- Development of Sustainable Urban Mobility Plan in Kharkiv in the process till now



# Laboratory

## □ Educational and research laboratory “Smart Transport and Logistics for Cities”

- Hardware
- Software
- Books



# Labour market

- ❑ Collaboration with local authorities and business
- ❑ Consulting with enterprises during Curriculum and Syllabi development
- ❑ Reviewing of educational content by industry experts
- ❑ Employment of graduates



- VIA SYSTEM PRO •  
traffic organization design



# Personal life

- ❑ Cultural exchange
- ❑ Family creating



Co-funded by the Erasmus+ Programme of the European Union

**SmaLog - one team!** SMA LOG

Dear colleagues, dear friends we wish you strength and patience. Together with you we believe in the best!  
Maria Okhova and Dmytro Roslavtsev, NUUE

Fortitude, harmony in the soul, calm in the head and smiles on the face. From heart to heart with best wishes.  
Kateryna Yakulenko and Varya (cat), NUUE

NEVER leave your goals & dreams behind & back, keep them to realize in the nearest future!!  
Iryna Tkachenko, NUUE

WE LOVE ITALY  
Stay home  
Keep safe

Teona, BSMA

Saving the world without leaving home.  
Yanishevskiy Serhil, NTU

My heart ❤️ in Italy  
Yevgen Kush, NUUE

Let's overcome these historical, critical times together, and get prepared to face the post-pandemic times with better knowledge, new skills and new hopes!  
Mykola Zhuk, LPNU

Health you, your family and your country. Looking forward to meeting you.  
Olga Kunytskaya, NTU

Work never stop, even in quarantine time :) Please hold on and safe yourself and your close people.  
Vasyli Mamray, ZSTU

Let's stay and study home.  
Volodymyr Kovalyshyn, LPNU

Everything passes and this will pass! See you soon!  
Oksana Hulchak, NTU



# Our future and sustainability

- ❑ Master program in regularly teaching process – 4 enrolments of students + teaching material published
- ❑ Exploitation of new laboratory: education and research
- ❑ NUUE is participant of worldwide scientific and educational communities
- ❑ New projects of EU: KA1, Jean Monnet, Horizon etc.
- ❑ Agreements of collaboration with EU HEIs
- ❑ Quality Assurance System of educational process in operation
- ❑ Internationalisation strategy in operation



[www.k-tsl.com](http://www.k-tsl.com)

[www.tsl.kname.edu.ua](http://www.tsl.kname.edu.ua)



thank you

merci  
obrigado  
grazie  
gracias  
kitos  
спасиби  
tack  
köszönöm  
хвала  
danke  
aciū  
hvala vam  
tak  
teşekkür ederim  
Dank u  
bakka þér  
σας ευχαριστώ  
ddiolch 'ch  
dëkujj  
dziękuję  
ありがとう  
תודה  
Ďakujem  
hvala  
Tak  
blagodarya  
Tapadh leibh  
falemmnderit  
спасибо  
trugãrez  
multumesc  
tanan teid  
Дзякуй  
Go raibh maith agaibh  
Paldies  
Ви благодарам  
谢谢  
धन्यवाद

