





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:

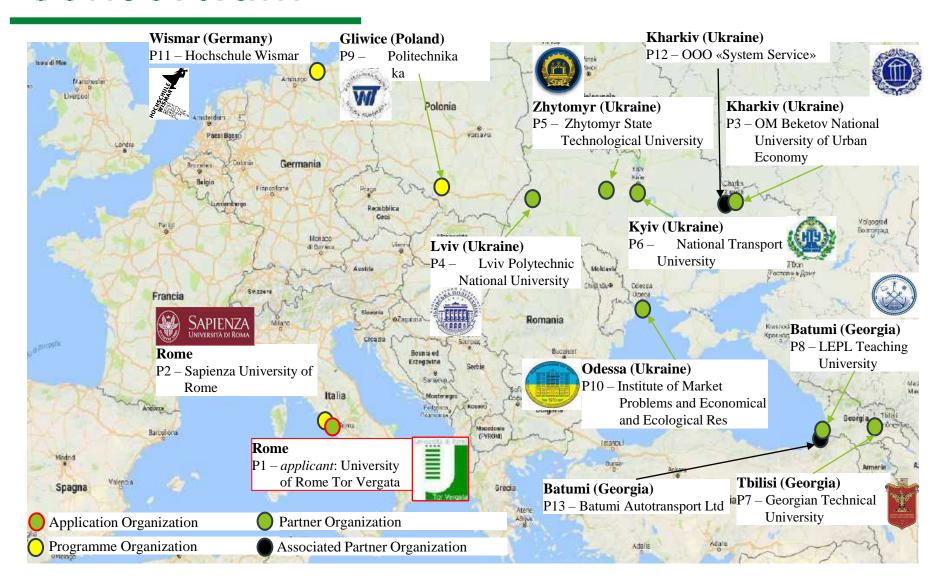
an overview and the main achievements

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





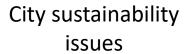
Consortium





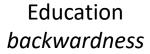


Why SmaLog?





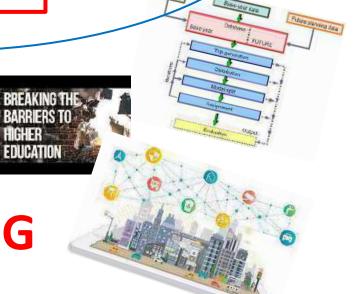
Research lacks







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)







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

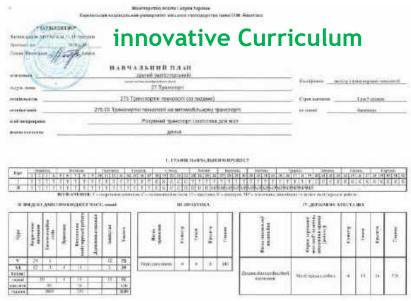




Achievements (1)

- 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)









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 then 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





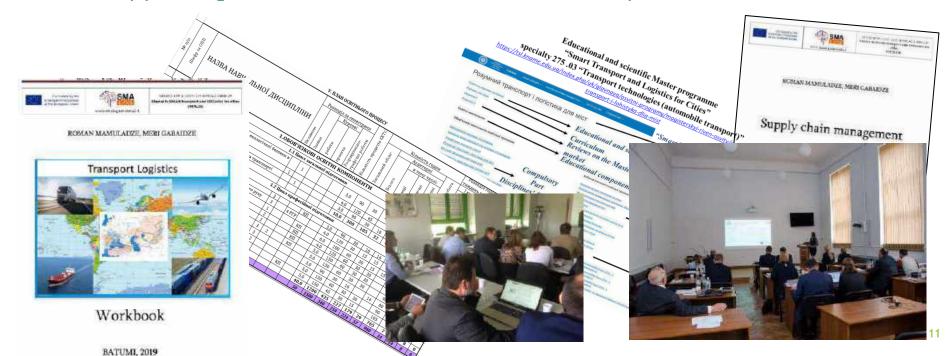




Train the Trainer

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







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, Zhythomyr (Ukraine)	4
Batumi State Maritime Academy, Batumi (Georgia)	1
Georgian Technical University, Tbilisi (Georgia)	3





Academics visiting the NTU, Kiev, Ukraine



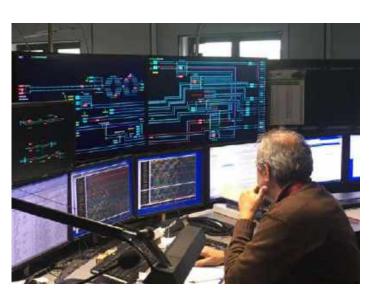
Academics visiting the NUUE, Kharkiv, Ukraine





Achievements (3)

► Technical visits



Rome





















Rome

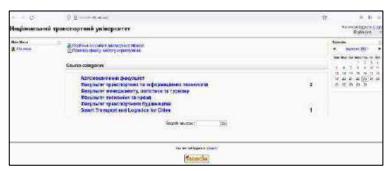




Achievements (4)

▶ 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





11/11/2021 16





Achievements (5)

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







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Achievements (6)

Published text books



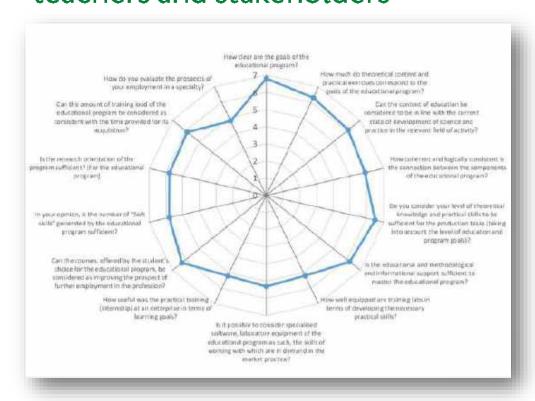
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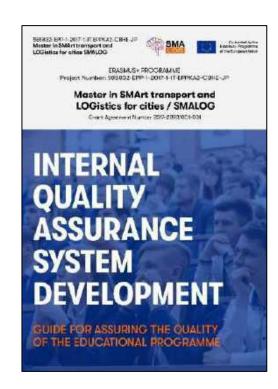




Achievements (7)

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









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

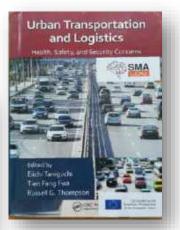


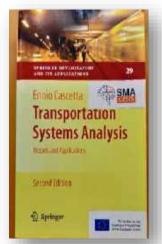
















Newsletters, events, workshops & seminars

What:

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

How we get there:

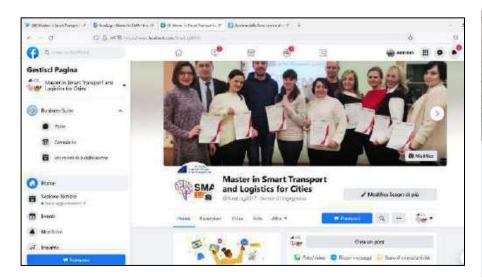
- Assuring to bring knowledge to all potential beneficiaries
- Promoting dissemination events strictly answering to real local needs
- Promoting dissemination involving all potential benficiaries of SmaLog

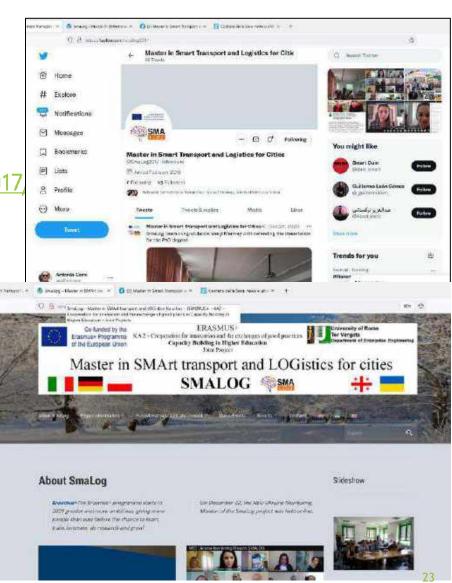




Achievements (1)

- 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/



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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)









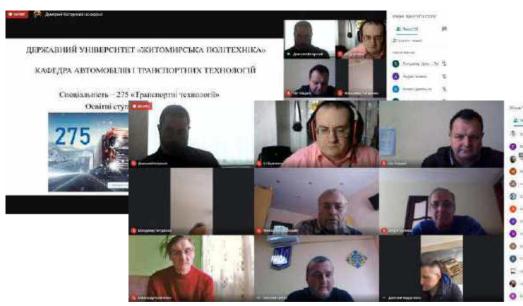
Achievements (6)

► ZPSU University meets local stakeholder SISC "Zhytomyr Auto International" - LLC "Veltest"

April, 2021: Zhytomyr, Online meeting with stakeholders:

https://news.ztu.edu.ua/2021/04/kruglyj-stil-zi-stejkholderamy-zaspetsialnistvu-275-03-transportni-tehnologivi-na-avtomobilnomutransporti/

- 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"



- PJSC "Zhytomyr-Auto"

- PE "Sheriff"
- Zhytomyr regional department of road construction and infrastructure management

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

- Communal enterprise "Information center"
- Department of the State Service for Transport Safety in Zhytomyr Region











Achievements (7)

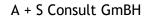
NTU University meets local stakeholders

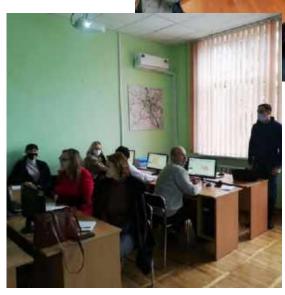
From 2018 to 2021, 9 meetings were held:

- "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













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







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

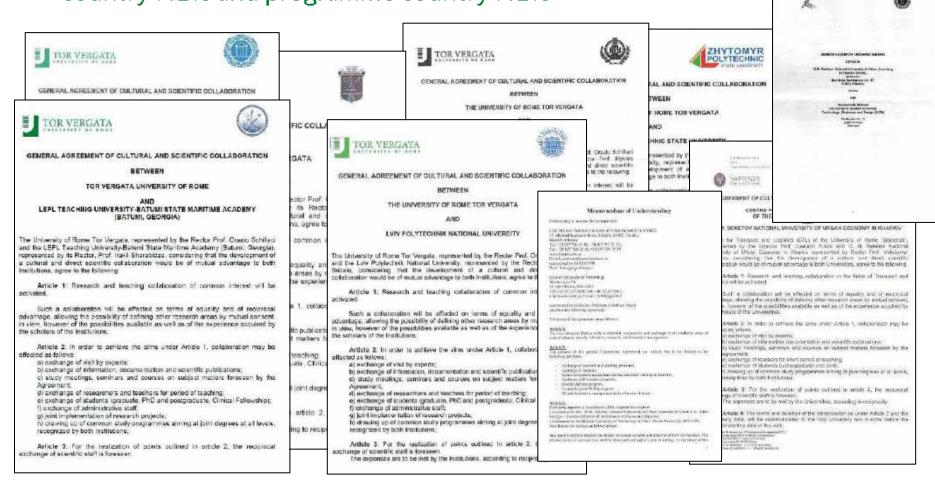






Achievement (3)

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







Are we closer to the target?

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
Internalisation
strategy
(exploitation)





Questions?

Tribute to our colleague Manfred



► A very big **THANK YOU!**







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