



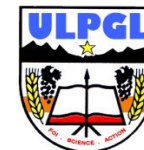
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Road Transportation Systems Engineering Development in the Sub-Saharan Africa - Modern EU Master Programme & Capacity Building
ERASMUS-EDU-2023-CBHE

Online meeting WP2, WP4

25.09.2024





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Agenda

WP2 - T2.5 Building a knowledge base on stakeholders in the transportation system

WP4 - T4.3 Development of road transport research laboratories

WP2 T2.4 Teaching methodologies for new 12 master courses, designing requirements on master thesis with the approval of new MSc program

T2.5 Building a knowledge base on stakeholders in the transportation system

— Prepared examples of letters in English and French

Erasmus+		AfroTrans project							
Project name		AfroTrans - Road Transportation Systems Engineering Development in Sub-Saharan Africa - Modern EU Master Programme & Capacity Building							
Project ID		101129011 - AfroTrans - ERASMUS-EDU-2023-CBHE							
nr	Organisation name	Adress	Geographical location	Organisation URL	Official contact information		Industry	Role in AfroTrans	Influence Level (High/Medium/Low; Inputed by
Row number	The official name of the organization	The official address of the organization	The country where the stakeholder is based or operates	Official organisation webpage	Contact persons	E-mail addresses, phone number	Industry in the road transport	What role it can play in the project	The level of influence the stakeholder has Road Transportation Systems in Country, Region, City
1	Ministry of Higher and University Education	Kinshasa Tshatshi Boulevard N° 67 New	DR Congo	https://mmpg.gov.rw		info@mmpg.rw , ehisamica@mmpg.rw		e.g. lecturer, employer, evaluating our didactic-training materials, posting employees	High
2									
3									
4									
5									
6									
7									
8									
9									
10									

Please upload all prepared letters to \02-WORKPACKAGES\WP2\T2.5 Building a knowledge base on stakeholders,, (signed or unsigned)



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AfroTrans
project

PhD-Eng. Wojciech Kustra

Project Coordinator

Gdansk University of Technology

Faculty of Civil and Environmental Engineering

Department of Transport Engineering

Gdansk-14.07.2024

Stowarzyszenia Forum Audytorów

Bezpieczeństwa Ruchu Drogowego

Director of the Road Network Management Department

Monika Tuszyńska

sekretariatdzs@gddkia.gov.pl

Dear Sirs, Madam,

The Faculty of Civil and Environmental Engineering at the Gdansk University of Technology has been awarded funding for **Road Transportation Systems Engineering development in the Sub-Saharan Africa - Modern EU Master Programme & Capacity Building (AfroTrans)** project under Erasmus + funding, project number 101129011 — AfroTrans — ERASMUS-EDU-2023-CBHE. This project, which holds the potential to bring significant improvements to the road network, runs from 12.2023 to 11.2026. The AfroTrans project will be carried out by the Gdansk University of Technology as project leader, Alpen Adria University, Bauhaus University of Weimar, Université Libre des Pays des Grands Lacs, Université de l'Assomption au Congo, Université Officielle de Ruwenzori, University of Dschang, Bafoussam Institute of Technology of Industry, Management and Entrepreneurship.

In connection with the project's implementation, we would like to invite you to join as an associate partner. We would like to ask you to:

- Familiarise yourself with the study curriculum being prepared for the newly created courses/specialisations related to road transport,
- Review the teaching and training materials being prepared,
- Opportunity for your staff to acquire modern knowledge,
- Job opportunities for future graduates.

As part of the project, all materials developed will be made available on the e-learning platform built, and a final conference will be organized (tentatively scheduled for Goma, DR Congo). The progress of the work can be followed on our website, www.afrotrans.org

Below is a brief overview of the project.

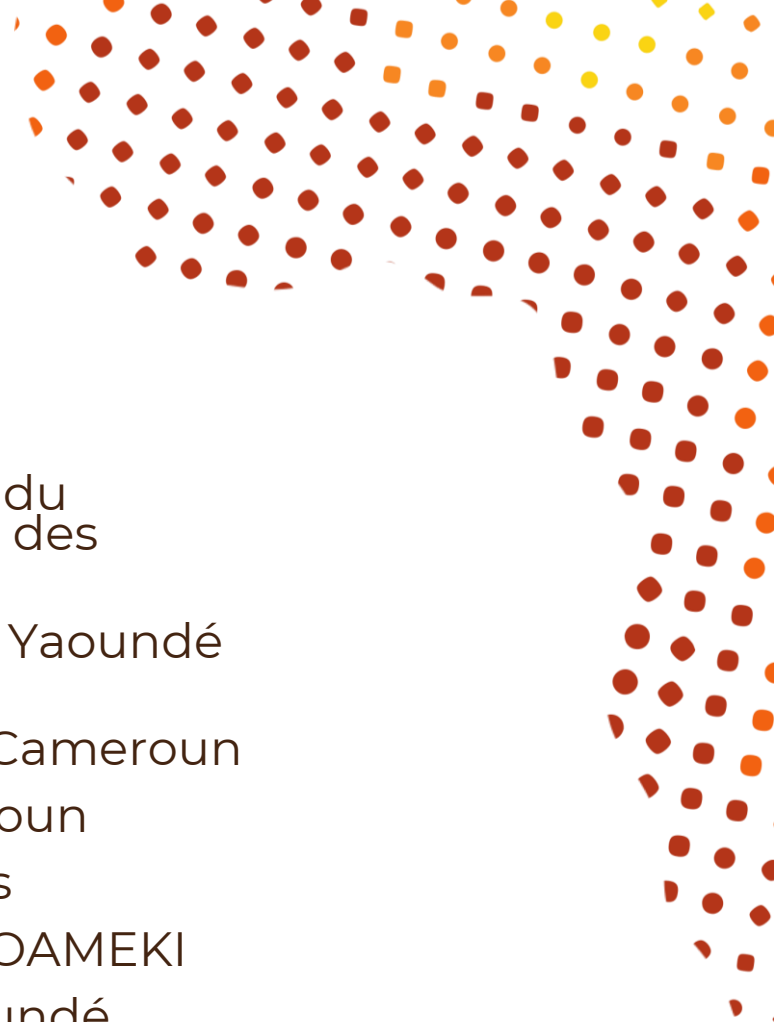


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PLAGENFURT

Bauhaus-Universität
Weimar

T2.5 Building a knowledge base on stakeholders in the transportation system

- 1) Mr Minister of transport - Yaoundé Cameroon
- 2) M. Le Directeur Général du Conseil National des Chargeurs du Cameroun. 3ème Etage, Immeuble à Grande Hauteur, Centre des Affaires Maritimes, Bonanjo, Douala.
- 3) M. Le Président du Comité national de la sécurité routière - Yaoundé Cameroun
- 4) M. Le Président du Conseil national de la route - Yaoundé Cameroun
- 5) M. Le Directeur Général du Fonds routier - Yaoundé Cameroun
- 6) M. Le président du Conseil National des Transports Routiers
- 7) M. Le PDG de Touristique voyage - BP: 5052-YAOUNDE-ETOAMEKI
- 8) M.le PDG de First National Express of Safety (FINEXS) - Yaoundé
- 9) M. Le PDG de Général Express Voyages - Yaoundé.
- 10) DHL Cameroon
- 11) M. Le Directeur Général de CAMPOST - Yaoundé Cameroun



T4.3 Development of road transport research laboratories

- The final list of lab equipment
- Short description and final update; deadline is **10.10.**
- We have to send the complete list of lab equipment to the Afrotrans supervisor **15.10**
- We have to buy lab equipment in November 2024

Please upload the final list of equipment to WP4-T4.3 - 02-WORKPACKAGES\WP4\T4.3_Development of road transport research laboratories



T2.4 Teaching methodologies for new 12 master courses....

- Courses Contents in Civil Engineering for Bachelor and Master Programs in the Democratic Republic of Congo – prepared
- Courses Contents in Intelligent transport and logistics systems engineering – INTIME Cameroon prepared
- Courses Contents in Intelligent transport and logistics systems engineering – UDS Cameroon **not-prepared**

Please upload the course contents to 02-WORKPACKAGES\WP2\T2.4_Teaching methodologies.

T2.4 Teaching methodologies for new 12 master courses....

— **Fundamentals of transport systems and processes:**

- Fundamentals of transport
- Traffic engineering

— **Transport research and analysis:**

- Transport research and analysis

— **Sustainable transport planning:**

- Planning the development of sustainable transport systems
- Methods of analysing and forecasting transport demand.

— **Road infrastructure safety management:**

- Road Safety Audit
- Road Safety Inspection
- Pedestrian safety management

— **Logistic management:**

- Supply Management and Logistics
- Distribution and material movement

— **Road construction and maintenance:**

- Road construction
- Road maintenance and management



T2.4 Teaching methodologies for new 12 master courses....

MASTER Year I				
Course Unit	Course	Cod	Course Title	CREDITS (ECTS)
1		TRA411	Study and Management of Projects and Procurement	
	1		Study and Management of Projects	2
	2		Procurement	1
2		TRA421	Economic, Legal and Psychological Issues	
	3		Economic Issues	3
	4		Legal Issues	2
	5		Psychological Issues	1
3	6	GCI411	Reinforced concrete 1	
4		GCL415	Electrical Installations and Electrical Machines	
	7		Electrical Installations	3
	8		Electrical Machines	4
5	9	GCI412	Urban Hydraulic Engineering, Underground Hydraulic	5
6	10	GCI413	Bridges	4
7	11	GCI421	Metal constructions	5
8	12	GCI422	Work Execution Control & Public Works Machinery	4
9			Fundamentals of transport systems and processes	
	13		Fundamentals of transport	4
	14		Traffic engineering	4
10			Transport research and analysis	
	15		Transport research and analysis	4
11			Sustainable transport planning	
	16		Planning the development of the sustainable transport system	4
12			Road construction and maintenance	
	17		Road construction	4
13			Road infrastructure safety management	
	18		Road Safety Audit	4
14	19	PRO401	Project M1	5
TOTAL				63

MASTER Year II				
Course Unit	Course	Cod	Course Title	CREDITS (ECTS)
1		TRA521	Entrepreneurship, Accounting & Ethics and Professional Ethics	
	1		Entrepreneurship	2
	2		Accounting	2
	3		Ethics and Professional Ethics	1
2	4	FON521	Life cycle engineering	4
3	5	GCI511	Prestressed Concrete and Reinforced Concrete 3	5
4	6	GCI512	Hydraulic Structures	5
5	7	GCI513	Foundations and Retaining Structures	4
6	8	GCI521	Operation of Transport Means	4
7			Sustainable transport planning	
	9		Methods of analysing and forecasting transport demand	5
8			Road infrastructure safety management	
	10		Road Safety Inspection	4
	11		Pedestrian safety management	4
9			Logistic management	
	12		Supply Management and logistics	4
	13		Distribution and material movement	4
10			Road construction and maintenance	
	14		Road maintenance and management	4
11	15	MEM501	Civil Engineering Thesis	20
TOTAL				72

T2.4 Teaching methodologies for new 12 master courses....

— We must prepare methodologies of teaching/ preparing courses:

- Lectures
- Practice
- Design
- Field work
- Laboratory
- Development of a handbook to support teaching and training

Example of methodologies 02-WORKPACKAGES\WP2\T2.4_Teaching methodologies_Example of methothologies

T2.4 Teaching methodologies for new 12 master courses....

— We must prepare course methodologies for 12 courses:

Table 1 The planned division of pedestrian crossing safety management lessons

Types of classes	Type of learner
	Students/auditors/experts
Lecture	13
Field activities	9
Practicals (remote)	8
Number of lessons	30

2.4 Type of didactic and training resources

As part of the project implementation, the following type of data was prepared:

- PowerPoint – presentation, which should be presented by the teacher (Figure 1),
- PowerPoint-audio – presentation with teacher soundtrack and subtitles if the speaker presented issues in another language than English (Figure 2),
- PowerPoint with YouTube resources (Figure 3).
- Video field activities tutorials (Figure 4).
- GPS coordinates for exercises (Figure 5).
- Field forms (Figure 6).
- Interactive quiz – different quizzes (open questions, multiple choice, yes/no).
- Webinar, Q&A, PowerPoint - student presentation (Final discussion with the teacher, all groups together).

Example of methodologies 02-
WORKPACKAGES\WP2\T2.4_Teaching methodology
of methodologies\
EuroS@P_IO.13_Theoretical_and_practical_teaching
development_related_to_the_pedestrian.pdf

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EuroS@P
EUROPEAN ROAD SAFETY PARTNERSHIP

WP4. Teaching materials development related to pedestrian crossing safety management

IO. 13 Theoretical and practical teaching materials development related to the pedestrian crossing safety management

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T2.4 Teaching methodologies for new 12 master courses....

— We must prepare course methodologies for 12 courses:

No.	Types of classes	Minutes	Short Name	Topic	Sub chapter	Resource Type
CHAPTER 1 - Preliminary part						
1	Lecture		Directive 2019/1936/EC (RSI - Targeted RSI - Network Wide Risk Assessment)	Position of RSI in Road Safety Management		20 min - Lecture PowerPoint, 20 min - Interview with a safety expert, 20 min - Lecture PowerPoint, 10 min - Quiz, 20 min - Group discussion
2	Lecture	135	RSI procedures	Players and their role (client, designer, auditor), process of RSA, RSA stages (draft, detailed, pre-opening, early operation), audit report, checklist		20 min - Lecture PowerPoint, 20 min - Lecture PowerPoint, 10 min - Quiz, 20 min - Lecture PowerPoint, 20 min - Lecture PowerPoint, 10 min - Quiz, 35 min - Infographics in break-out rooms - RSI process and participants
3	Lecture	45	Road network classification	Context, users, infrastructure		20 min - Lecture PowerPoint, 20 min - Interview with a safety expert, 5 min - Interactive Quiz
4	Practical	135	Road network classification	Students need to study the guideline of their own country and create a road network map of a selected county (region) indicating the various network categories making sure that all categories are represented		90 min - Map in team work - network classification, 30 min - Peer-to-peer presentation, 15 min - Group discussion
5	Lecture	135	Accident analysis and statistics	Basics about gathering accident data and accident types. Accident causation and risk assessment. Different way to collect and manage accident data. Surrogate measures of safety		20 min - Lecture PowerPoint on accident data and accident type, 10 min - Interactive quiz, 20 min - Lecture PowerPoint on accident causation and risk assessment, 10 min - Interactive quiz, 20 min - Lecture PowerPoint on how collect and manage data, 10 min - Interactive quiz, 20 min - Lecture PowerPoint on surrogate measures of safety, 10 min - Interactive quiz, 15 min - Interview with a safety expert
6	Field	180	Accident analysis and Surrogate Measure of Safety	Speed measurements or conflicts		90 min - Map in team work - accident analysis, 60 min - speed and conflicts measurement, 30 min - Group discussion
7	Practical	180	Tools	GIS, CAD, Excel, GPS, Cameras, Speed Camera		90 min - Map in team work - accident analysis, 60 min - speed and conflicts measurement, 30 min - Group discussion
CHAPTER 2 - Road Safety Fundamentals (background)						

Example of methodologies 02-
WORKPACKAGES\WP2\T2.4_Teaching
methodologies_Example of methodologies\
WP3_Course_chapters_V7

T2.4 Teaching methodologies for new 12 master courses....

— Working group to each lecture:

- Need min, one person from each country
- Meetings, working in small groups

Please full fill in the Excel file, location of the file o 02-
WORKPACKAGES\WP2\T2.4_Teaching methodologies\Working_grup_courses.xlsx

Lectures	Leader	Name/surname of leader	GUT	AAU	BUW	ULPG L	UAC	UOR	UDS	INTIME
1. Fundamentals of transport systems and processes										
Fundamentals of transport	AAU									
Traffic engineering	AAU		Wojciech Kustra							
2. Transport research and analysis										
Transport research and analysis	AAU		Lukasz Jelinski							
Sustainable transport planning										
Planning the development of the sustainable transport systems	BUW	Wido Hamel	Jacek Oskarbski							
Methods of analysing and forecasting transport demand.	BUW	Wido Hamel	Krystian Birr							
3. Road infrastructure safety management										
Road Safety Audit	GUT	Joanna Wachnicka								
Road Safety Inspection	GUT	Joanna Wachnicka								
Pedestrian safety management	GUT	Joanna Wachnicka	Tomasz Mackun							
4. Logistic management										
Supply Management and logistics	GUT	Daniel Kaszubowski								
Distribution and material movement	GUT	Daniel Kaszubowski								
5. Road construction and maintenance										
Road construction	GUT	Marek Pszczola								
Road maintenance and management	GUT	Marek Pszczola								

Missing data

—REPORTING – SUPPORTING DOCUMENTS

- Timesheets – **BUW**
- Travel documents - **BUW**
- Financial statement – **BUW, UDS, INTIME**
- Please sign your sheet with your Financial statement by a legal representative, scan and upload to SharePoint

—WEBPAGE – Project staff – AAU, UDS, INTIME (person description, more staff?).

Please update all documents to the 15th of October



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