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AfroTrans project

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

AfroTrans online meeting

27.03.2025

GDAŃSK UNIVERSITY OF TECHNOLOGY

UNIVERSITÄT KLAGENFURT

Bauhaus-Universität Weimar

INTIME

UNIVERSITÉ DE DSCHANG
UNIVERSITY OF DSCHANG

ULPGL

UNIVERSITÉ DE L'ASSOMPTION AU CONGO

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Agenda

WP1 – Financial statement

WP1 – Deliverables and Milestones

WP2. Curriculum and knowledge base development

WP4. Summer school - dates

WP4. The Lab equipment – progress

Financial statement

- No data from UDS
- No working card from UDS
- INTIME - Add the name of staff in financial statement
- Update all financial documents – deadline 10.04 (period up to 31.03.2025).

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Deliverables

1. D1.1 1st Progress report – 31.05.2025 - GUT
2. D2.2 Masters' courses teaching methodologies – 31.03.2025 – working on it
3. D2.4 Transport data sources database - 31.03.2025 - prepared
4. D1.4 Quality Assurance Plan – 31.05.2023 - working on it

Milestones

1. MS1. Preparation of 1st progress report – 31.05.2025
2. MS3. Approval of curricula by the Ministries Ministry of Scientific Research and Technology (DR Congo) and Ministry of Scientific Research and Innovation (Cameroon) – 31.05.2025

Kampala meeting

University	Planned	Real	Sum
Gdansk University of Technology	7160	8200	-1040
Alpen Adria University	3580	0	3580
Bauhaus University of Weimar	3580	3947	-367
Université Libre des Pays des Grands Lacs	1920	1366	554
Université de l'Assomption au Congo	0	2490	-2490
Université Officielle de Ruwenzori	0	1490	-1490
University of Dschang	5370		5370
Institute of Technology of Industry, Management and Entrepreneurship	5370	2300	3070
Sum	**26980**	**19793.3**	**7187**

WP2. Curriculum and knowledge base development

1. T2.3 Survey and evaluation of courses at Democratic Republic of Congo, Cameroon and EU universities in road transport system - BUW

WP2. Curriculum and knowledge base development

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

   - T.2.4.1 - Methodologies draft – 28.03.2025
   - T.2.4.2 - Subject cards – 17.02.2025 – done
   - T.2.4.3 – Final version of methodologies – 10.04.2025

WP2. Curriculum and knowledge base development

1. Subject cards
   - \R06-Afro-Trans\02-WORKPACKAGES\WP2\T2.4_Teaching methodologies\Subject_Cards

AfroTrans project — Erasmus+

Subject name	Methods of Analysing and Forecasting Transport Demand - Macrolevel						
Field of study	Road Transportation Systems Engineering						
Education level	Master						
Year of study	2						
Semester of study	3						
Language	English						
ECTS credits	3.0						
Type of subject	Specialised subject						
Softweare use or learn	PTV VISUM, Excel, Power Point						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	12.0	4.0	25.0	0.0	4.0	45
	E-learning hours included:						11.0
Types of teaching activities	1) Teacher talks to students in class; 2) Teacher discusses with students in class; 3) Students discuss on their own under the supervision of the teacher; 4) Students discuss among themselves in small groups in class 5) Students design on computers; 6) Teacher presents activities in the field; 7) Students work alone in the field in small groups; 8) Students work alone at home on videos						
Subject objectives	1) The aim of the course is to introduce students to the theory and practice of traffic modeling, forecasting, and transport analyses using macroscopic traffic models. 2) Students will gain knowledge of the essence, necessity, and methods of travel modeling. 3) Students will acquire skills in data preparation, processing, and performing basic analyses using macroscopic modeling techniques.						
Learning outcomes	By the end of the course, students will: 1) Understand Core Concepts of Transport Modeling – Develop a deep understanding of traffic flow fundamentals, transport demand, and modeling principles, including macroscopic, mesoscopic, and microscopic approaches. 2) Collect and Process Traffic Data – Gain proficiency in various data collection techniques, including surveys, interviews, and traffic intensity measurements, and learn to prepare, visualize, and analyze data effectively. 3) Apply Transport Modeling Techniques – Develop the ability to construct transport models using industry-standard software (e.g., PTV Visum), including network coding, zoning, and integration of various transport parameters. 4) Analyze Travel Demand and Behavior – Utilize demand modeling methods such as trip generation, trip distribution, modal split, and traffic assignment to forecast and interpret transportation needs. 5) Conduct Network Analysis and Scenario Planning – Assess transport networks, identify congestion issues, and develop solutions using scenario-based forecasting and supply modeling techniques. 6) Use Software Tools for Traffic Simulation – Gain hands-on experience with transport modeling software to simulate and analyze different traffic conditions and assess the impact of various policy measures. 7) Evaluate Transport Models and Interpret Results – Learn to validate models, assess performance indicators, and provide data-driven recommendations for optimizing transport systems. 8) Develop Problem-Solving and Decision-Making Skills – Learn to critically						
Other comments (not obligatory)	The course combines theoretical lectures, practical exercises, and real-world data collection to ensure a well-rounded learning experience. Field activities provide students with hands-on exposure to traffic data acquisition and analysis. Supervised project work and consultations help students apply their knowledge to complex transport modeling tasks. The final presentation of projects encourages critical thinking and effective communication of results. Students are expected to actively engage in discussions, problem-solving tasks, and teamwork throughout the course.						

WP4. The Lab equipment – progress

1. Did you buy all lab equipment
   - INTIME – done
   - ULPGL – done
   - UDS?
   - UOR?
   - UAC?
2. What is your progress?
3. When do you have the plan to finish?

WP4. The Lab equipment – progress

1. Stickers

   - https://ec.europa.eu/regional_policy/information-sources/logo-download-center_en

     - R06-Afro-Trans\02-WORKPACKAGES\WP4\T4.3_Development of road transport research laboratories\Stickers\co-funded_en.zip

     - R06-Afro-Trans\02-WORKPACKAGES\WP4\T4.3_Development of road transport research laboratories\Stickers\co-funded_fr.zip

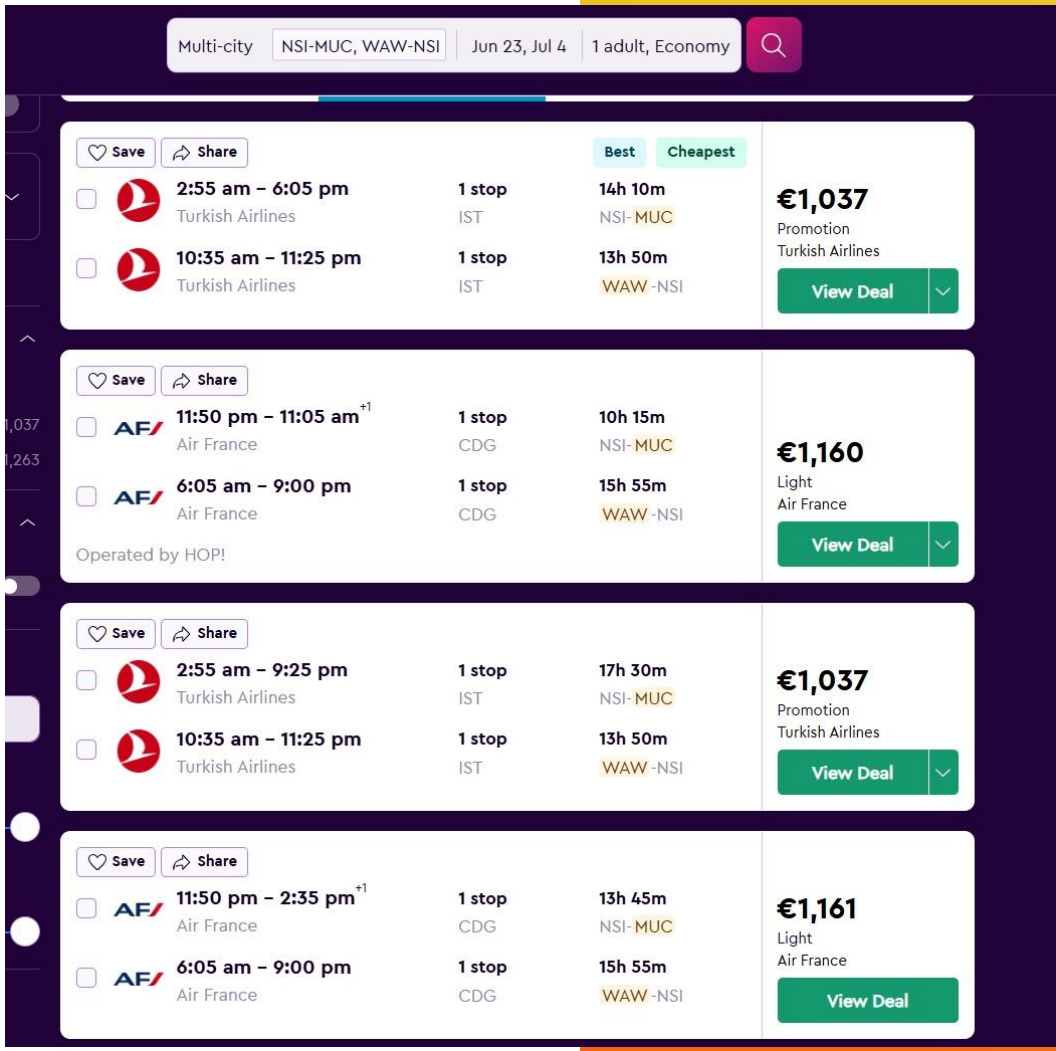
WP4. Summer school - Poland/Germany

1. Schedule:
   - Monday 23.06 – travel time to Weimar,
   - Thusday – Friday 24.06 – 27.06 - working days
   - Friday evening, Saturday, 28.06, travel day to Poland
   - Sunday 29.06. Free day in Poland
   - Monday – Thursday, 30.06-3.07 working days
   - Friday 4.07 travel day to Cameroon or Congo

WP4. Summer school - Poland/Germany

1. Flight option:

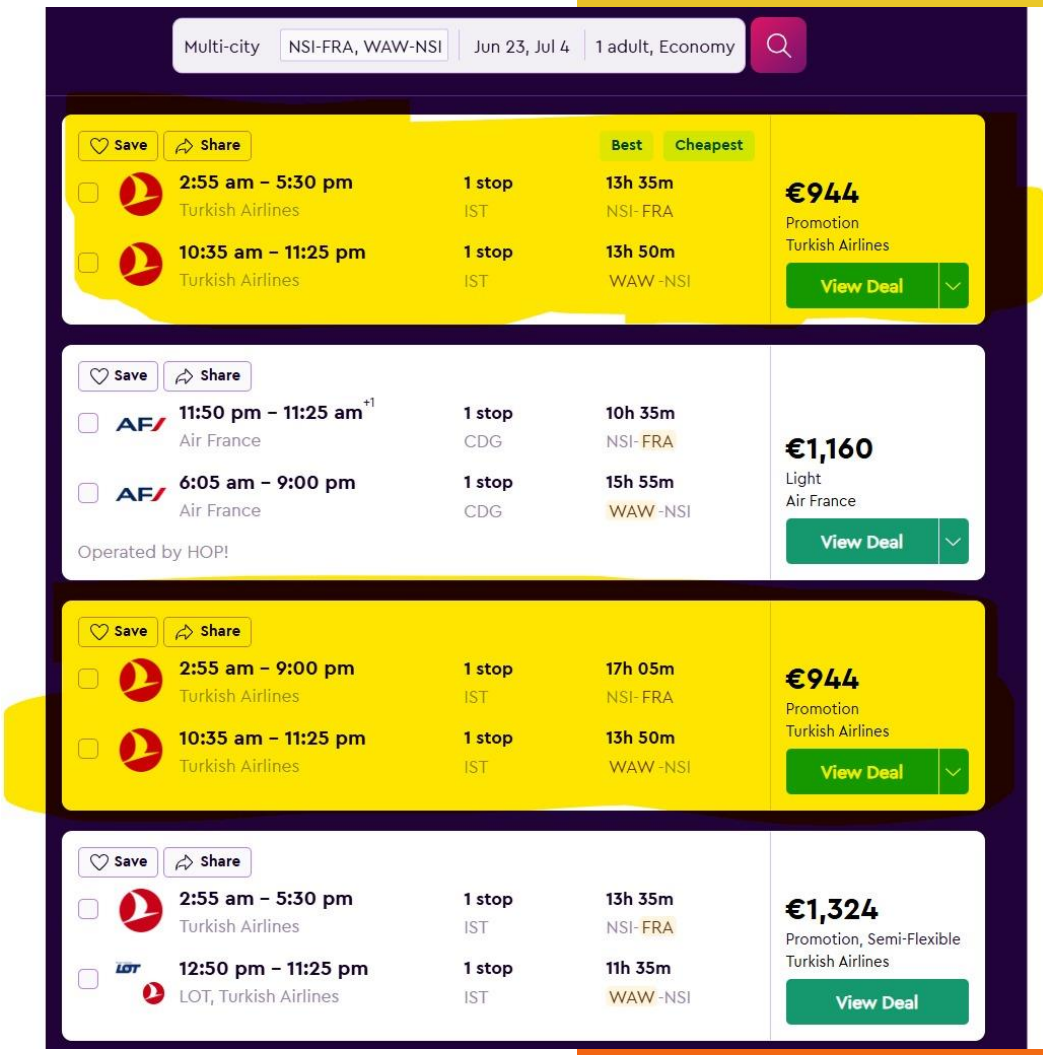
   - From Cameroon – Douala or Yaounde to Munich by plane and Munich to Weimar by train
   - To Cameroon Gdansk to Warsaw by train and Warsaw to Douala or Yaounde by plane



WP4. Summer school - Poland/Germany

1. Flight option:

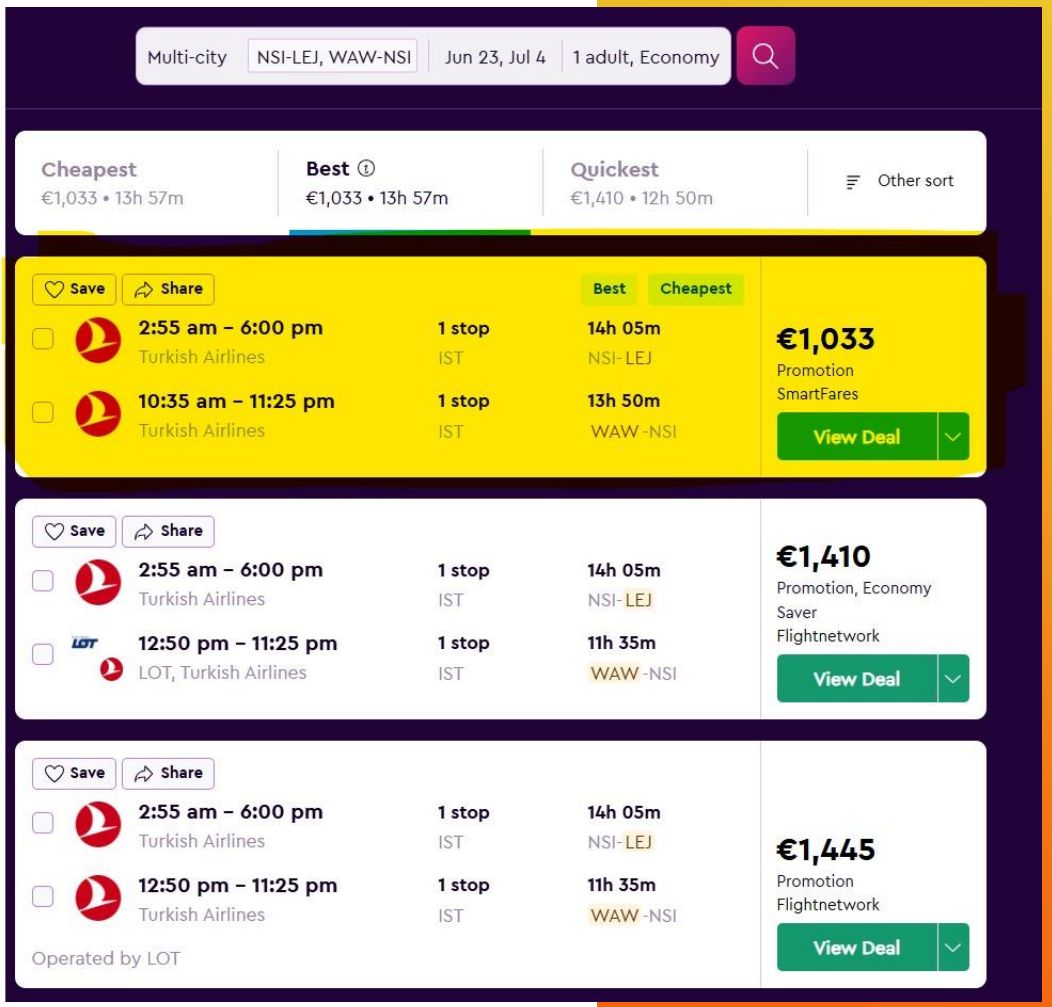
   - From Cameroon – Douala or Yaounde to Frankfurt by plane and Frankfurt to Weimar by train
   - To Cameroon Gdansk to Warsaw by train and Warsaw to Douala or Yaounde by plane



WP4. Summer school - Poland/Germany

1. Flight option:

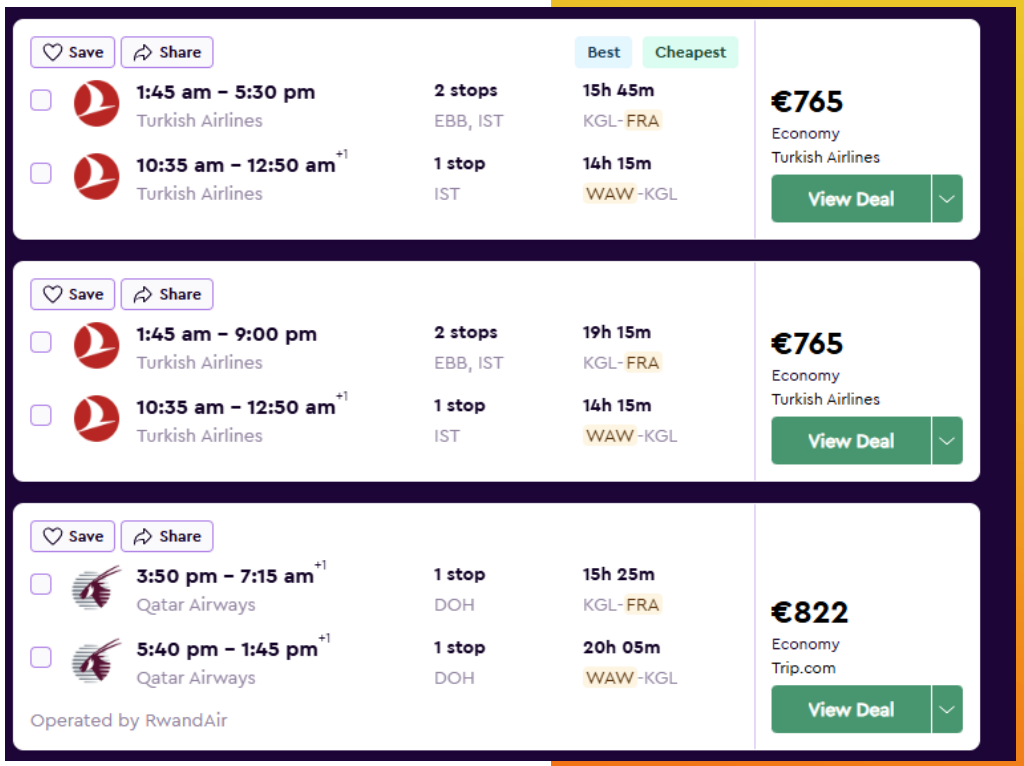
   - From Cameroon – Yaounde to Leipzig by plane and Leipzig to Weimar by train
   - To Cameroon Gdansk to Warsaw by train and Warsaw to Yaounde by plane



WP4. Summer school - Poland/Germany

1. Flight option:

   - From DR Congo – Kigali to Frankfurt by plane and Frankfurt to Weimar by train
   - To DR Congo Gdansk to Warsaw by train and Warsaw to Kigali by plane

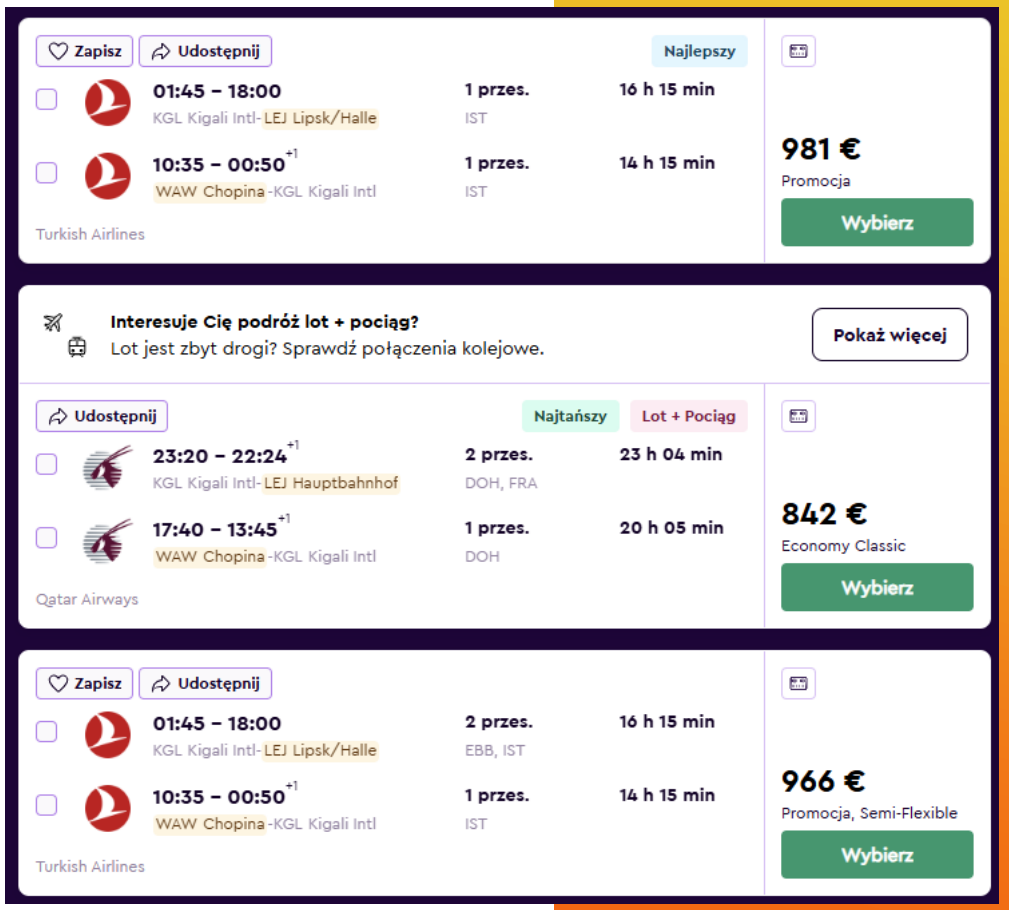


WP4. Summer school - Poland/Germany

1. Flight option:

   - From DR Congo – Kigali to Leipzig by plane and Leipzig to Weimar by train

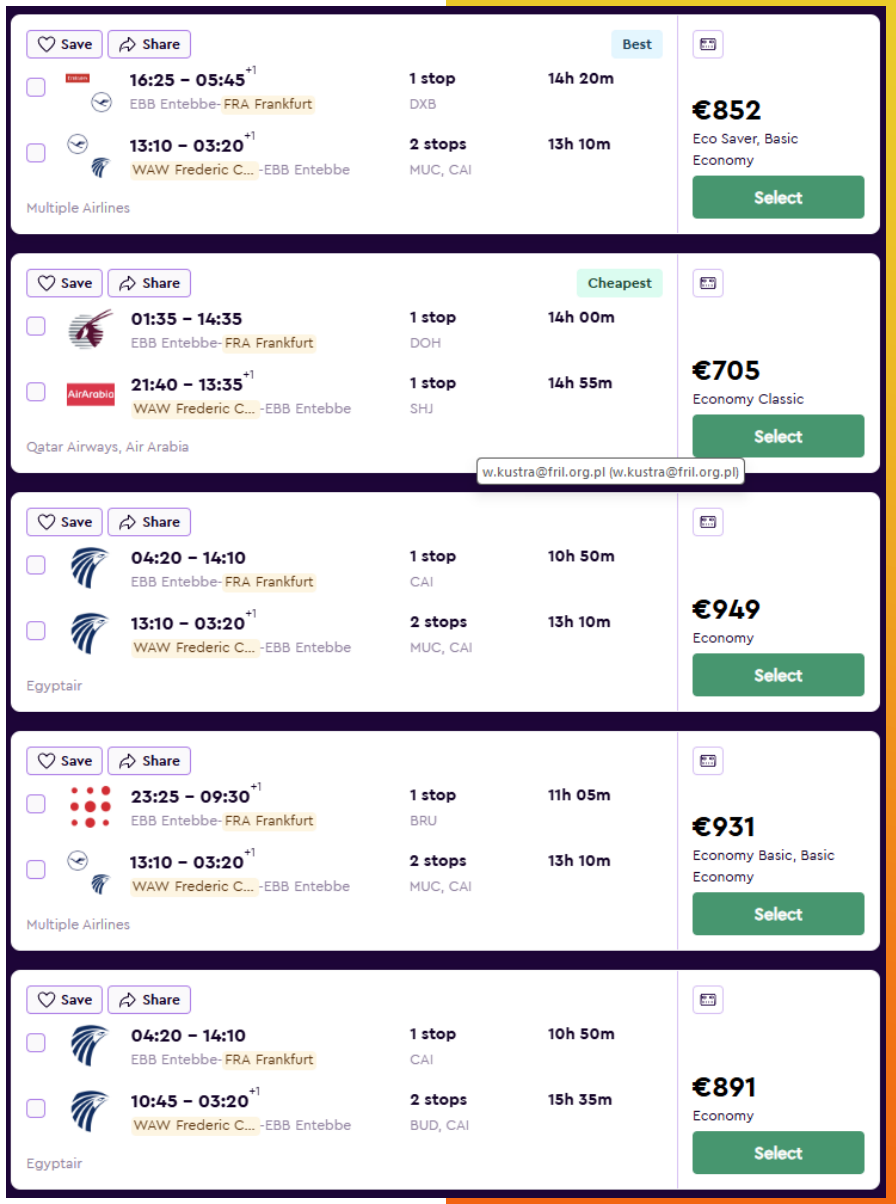
   - To DR Congo Gdansk to Warsaw by train and Warsaw to Kigali by plane



WP4. Summer school - Poland/Germany

1. Flight option:

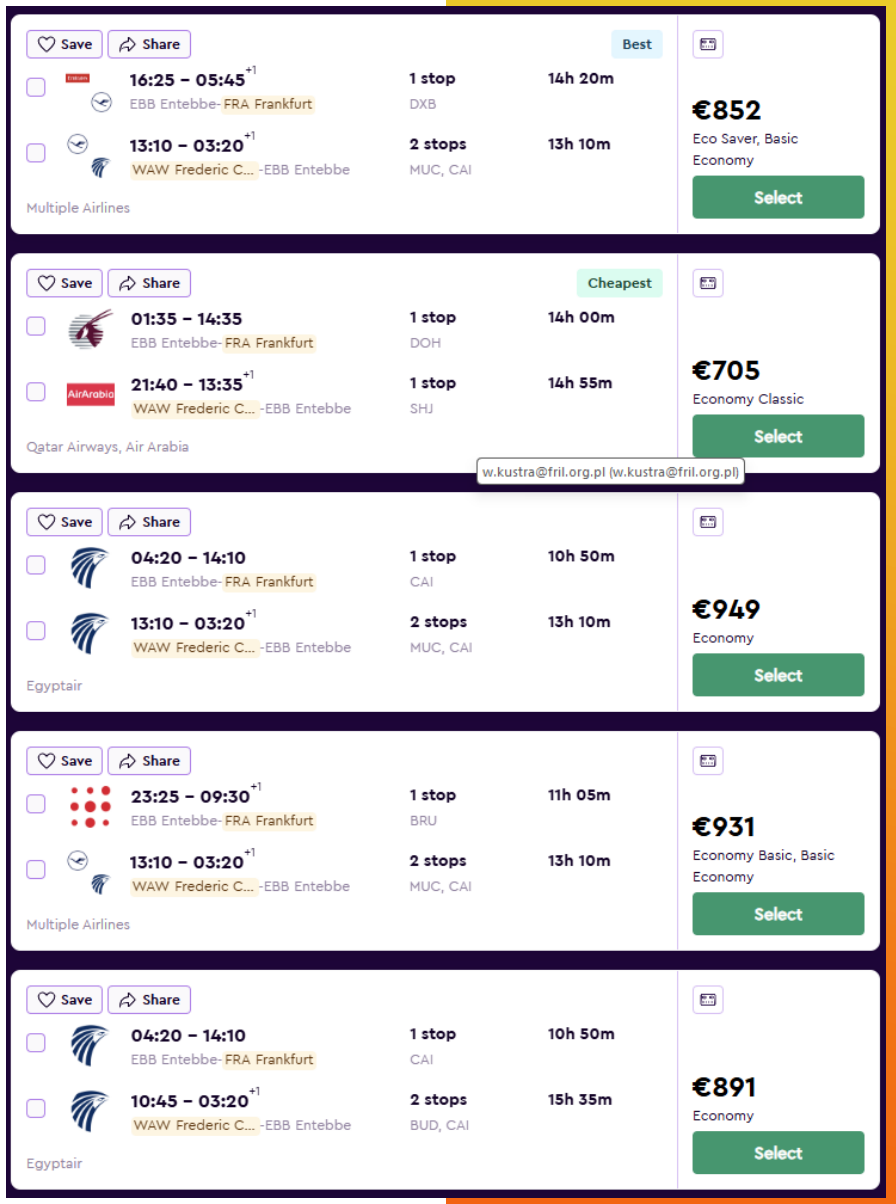
   - From DR Congo – Kampala to Frankfurt by plane and Frankfurt to Weimar by train
   - To DR Congo Gdansk to Warsaw by train and Warsaw to Kampala by plane



WP4. Summer school - Poland/Germany

1. Flight option:

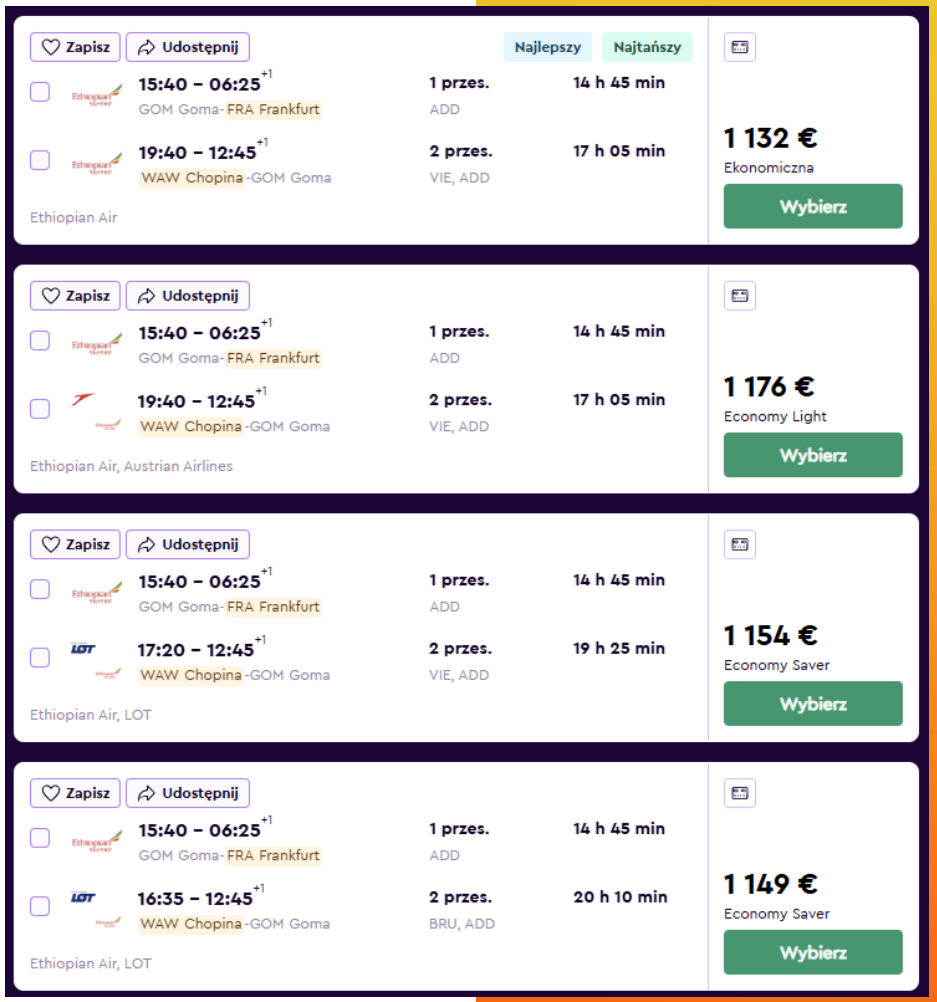
   - From DR Congo – Kampala to Frankfurt by plane and Frankfurt to Weimar by train
   - To DR Congo Gdansk to Warsaw by train and Warsaw to Kampala by plane



WP4. Summer school - Poland/Germany

1. Flight option:

   - From DR Congo – Goma to Frankfurt by plane and Frankfurt to Weimar by train
   - To DR Congo Gdansk to Warsaw by train and Warsaw to Goma by plane

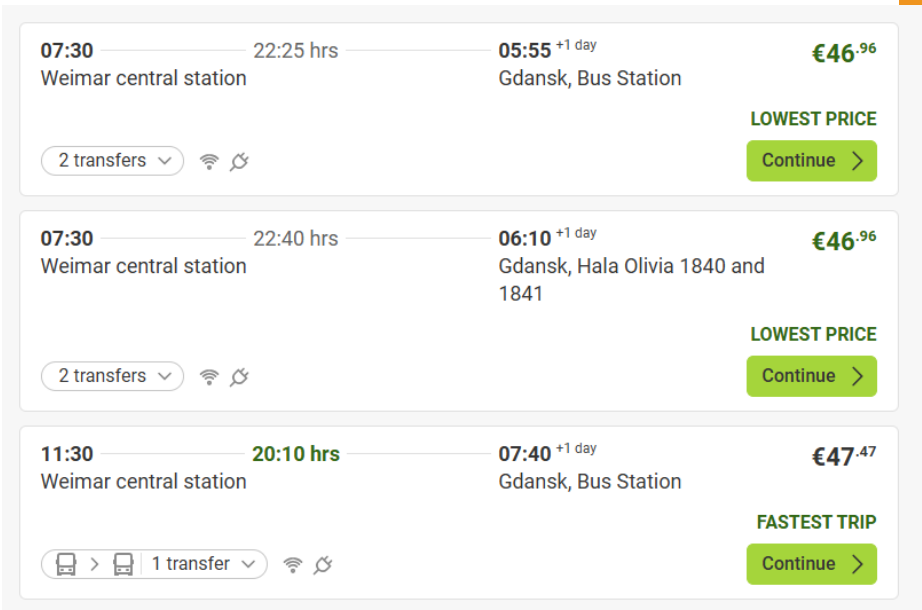


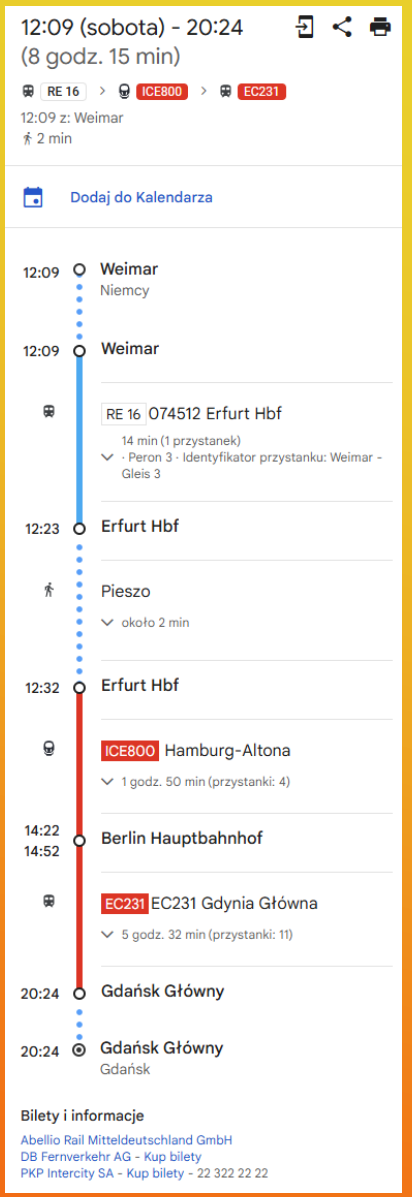
WP4. Summer school - Poland/Germany

1. Train:
   - Frankfurt to Weimar by train - 2-3 hours (cost 20-30 euros)
   - Gdansk to Warsaw by train – 3 h (cost 40 euros, group ticket much cheaper).

WP4. Summer school - Poland/Germany

1. Weimar to Gdansk:
   - Flix bus – 22 h – 50 euros/person
   - Train – 8.5 h - 60 euros/person



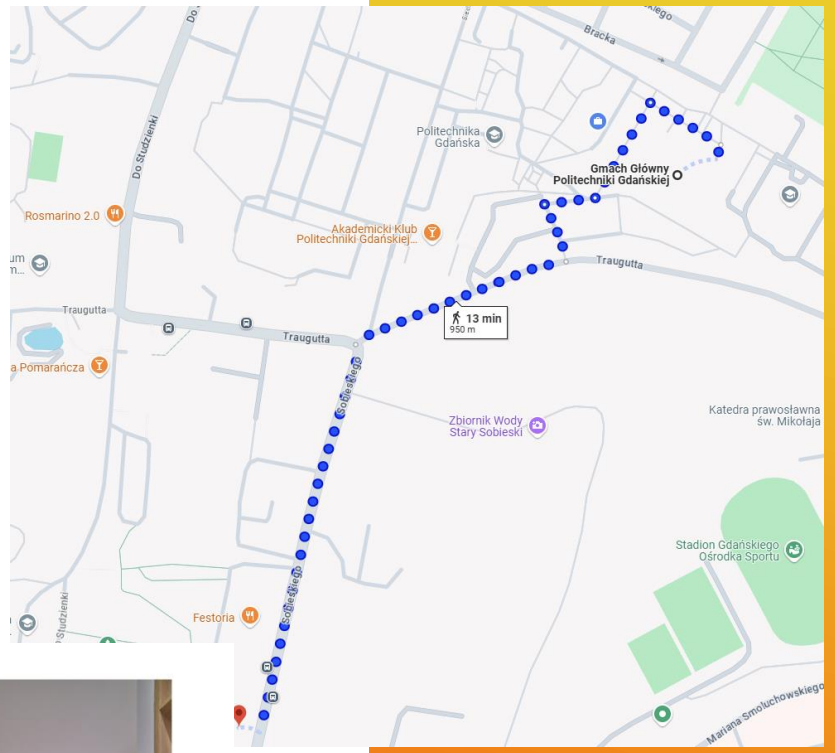


WP4. Summer school - Poland/Germany

1. Accommodation in Poland

- Teacher – cost 90 per room/person/day – 1 person room
- With breakfast

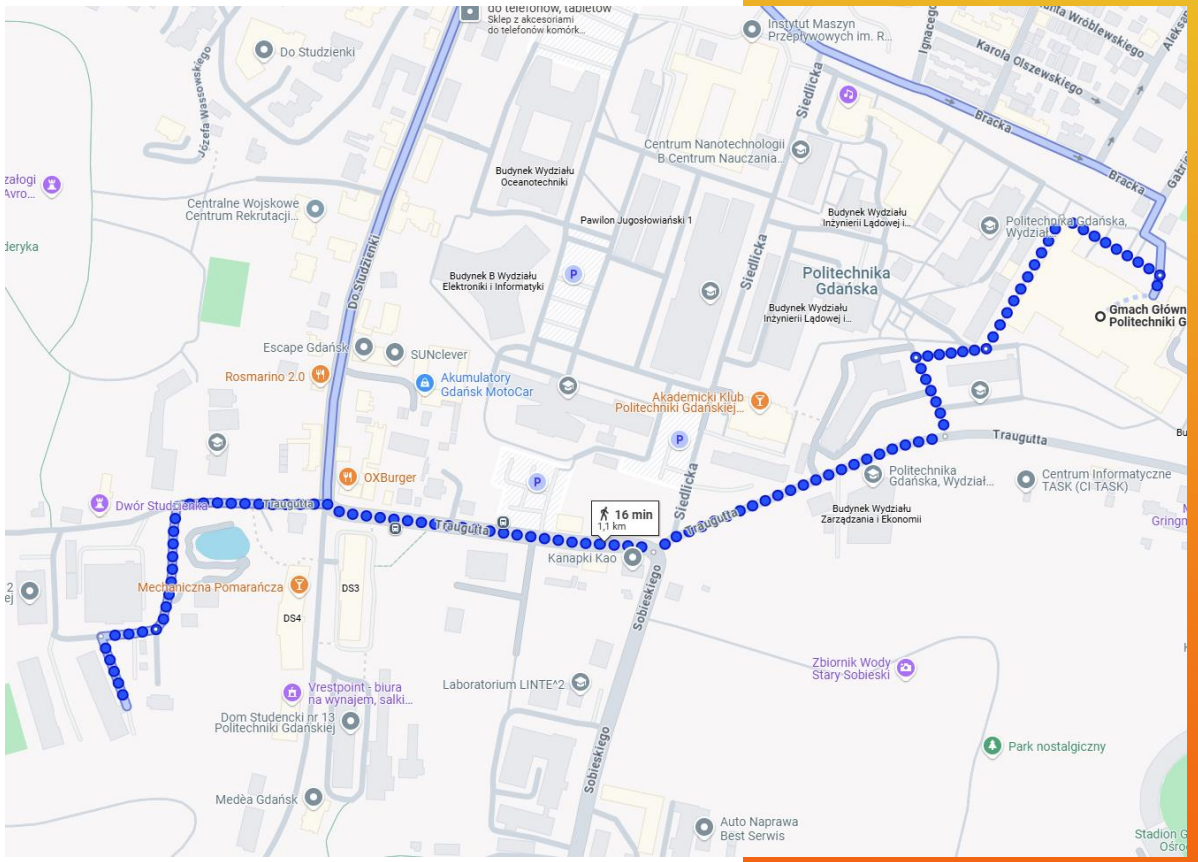
- www.collegia.pl



WP4. Summer school - Poland/Germany

1. Accommodation in Poland – Students dormitory

   - 25 euro person/day, 1 person room.
   - 37 euro room/day, 2 person room
   - Without breakfast



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