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Romania, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan

EUROPEAID/126298/C/SER/MULTI

Strengthening Transport Training Capacities in NIS Countries

Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic,
Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan

*DISCUSSION PAPER ON THE ESTABLISHMENT OF A NETWORK OF
REGIONAL CONNECTIONS FOR ADVANCED TRANSPORT TRAINING
IN THE TRACECA REGION*

December 2010



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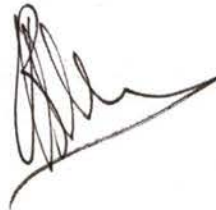
A project implemented by
NEA and its partners STC,
TRADEMCO and Wagener &
Herbst Management
Consultants



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Report cover page

Project Title:	Strengthening of Transport Training Capacities in NIS countries (TRACECA)	
Project Number:	EUROPEAID/126298/C/SER/MULTI	
Country:	Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	
	Partner	Contractor
Name:	TRACECA Intergovernmental Commission, Permanent Secretariat	Consortium led by NEA Transport Research and Training (The Netherlands)
Address:	8/2 General Aliyarbekov Str. AZ-370 000 Baku Azerbaijan	NEA Head office in the Netherlands: Bredewater 26, P.O. Box 276 2700AG Zoetermeer The Netherlands
Tel. Number:	+ 994 12 982 718	+ 31 79 322 2383 (NEA office)
Fax number:	+ 994 12 986 426	+ 31 79 322 2382 (NEA office)
Telex number:		
Contact persons:	Eduard Biriucov Secretary General of the Permanent Secretariat of the TRACECA Intergovernmental Commission	Team Leader: René Meeuws
Signatures:		

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Author of report: René Meeuws, Team Leader





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1 Project synopsis

Project Title:	Strengthening of Transport Training Capacities in NIS countries (TRACECA)
Project Number:	EUROPEAID/126298/C/SER/MULTI
Country:	Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan

Overall project objectives: The overall objective of the project is to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries.

Specific project objectives: The purpose of this project is to improve the training capacity of transport higher education entities in the TRACECA NIS countries.

Planned outputs: (1) Various assessment reports on existing curricula and course contents on transport planning techniques and tools; investment appraisal; pedagogical skills, teaching methods and curricula development methods; multimodal transport and interoperability.

(2) Curricula and course materials on transport planning techniques and tools; investment appraisal; pedagogical skills, teaching methods and curricula development methods; standardised curricula on multimodal transport and interoperability.
- Higher educational institutes in TRACECA countries have updated curricula / course contents in transport planning; investment appraisal; multimodal transportation and interoperability.
- Developed training toolkits.

(3) Trained teaching staff in transport planning techniques and tools; investment appraisal; pedagogical skills, teaching methods and curricula development methods; multimodal transport and interoperability.
- More than 250 teaching staff members of transport training entities and more than 500 young scientists/students are familiar with state-of-the-art research of sustainable transport policy, planning and appraisal tools including multimodal transportation and interoperability.
- Minimum 24 teachers/lecturers through direct regional training and 180 teachers/lecturers through national training have participated in pedagogical courses.

(4) 7 regional training measures.

(5) National training measures on a country-to-country basis.





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(6) Feasibility study for the establishment of a network of regional connections for advanced transport training in the TRACECA region.

(7) Implementation of network of regional connections for advanced transport training in the TRACECA region.

Project activities:

Phases	Tasks
0. Inception	<ul style="list-style-type: none"> • Task 0: Inception
1. Familiarise teaching staff and students with latest transport planning (TP) techniques and tools	<ul style="list-style-type: none"> • Task 01: Review course contents and curricula TP • Task 02: Raise awareness for state-of-the-art techniques TP • Task 03: Develop course materials TP • Task 04: Training teaching staff TP • Task 05: Improve curricula and course contents and liaise with post-graduate departments TP • Task 06: Assist in course development for transport simulation and forecasting software
2. Familiarise teaching staff and students with investment appraisal (IA) techniques and tools	<ul style="list-style-type: none"> • Task 07: Review course contents and curricula IA • Task 08: Raise awareness for state-of-the-art techniques IA • Task 09: Develop course materials IA • Task 10: Training teaching staff IA • Task 11: Improve curricula and course contents and liaise with post-graduate departments IA
3. Improve pedagogical skills, teaching techniques (TT) and curricula development methods	<ul style="list-style-type: none"> • Task 12: Review teaching methods • Task 13: Training teaching staff TT • Task 14: Support training by post graduate departments TT • Task 15: Provide access to online libraries and other training materials TT • Task 16: Training assessment evaluation TT



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Phases	Tasks
4. Develop departments/chairs for multimodal transport (MT) and interoperability	<ul style="list-style-type: none"> • Task 17: Review course contents and curricula MT • Task 18: Adaptation course contents and curricula MT • Task 19: Symposium incl. field studies/excursions MT • Task 20: Assist in introducing altered course contents MT
5. Appraisal for establishment regional links for advanced transport training	<ul style="list-style-type: none"> • Task 21: Assess regional experiences in training and research platforms • Task 22: Organise discussions on establishing regional platforms and networks on training • Task 23: Carry out feasibility study on development of regional connections in the field of transport training • Task 24: Disseminate cooperation opportunities with European training institutes

Project starting date: 31 July 2008

End date of activities 31 December 2010

Project duration: 29 months

Project implemented by: NEA Transport Research and Training (The Netherlands) and its partners in the consortium:
Wagener & Herbst Management Consultants (Germany)
TRADEMCO (Greece)
Shipping and Transport College Rotterdam (The Netherlands)



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2 Summary of Project

2.1 Goals

The project had the following overall objectives and specific objectives:

Overall project objectives: The overall objective of the project was to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries.

Specific project objectives: The purpose of this project was to improve the training capacity of transport higher education entities in the TRACECA NIS countries.

These overall and specific project objectives have been achieved by having realized the following results:

- Result 1: Teaching staff of transport training entities and students in higher educational transport institutes have been familiarised with latest transport planning techniques and tools.
- Result 2: Teaching staff of transport training entities and students in higher educational transport institutes have been familiarised with latest investment appraisal techniques and tools including environmental analysis of transport sector investments.
- Result 3: Transport training has been improved through improved pedagogical skills, teaching techniques and curricula development methods.
- Result 4: Departments/chairs for multi-modal transport and interoperability have been further developed and enabled to deliver state-of-the-art training contents.
- Result 5: An in-depth appraisal for the establishment of regional links for advanced transport training has been elaborated.

2.2 Definition of target groups and beneficiary education institutes

The first step in the project was to define the target groups for these activities. The direct beneficiaries of the project were transport higher educational institutes. According to the Terms of Reference, the Ministries of Education and/or the Ministries of Transport would be closely associated to the project depending on the framework conditions and the selected project beneficiaries in the respective TRACECA country.

The Terms of Reference state that the following counterpart institutions might be selected during the analytical and preparatory phase:

- In Armenia, the State Engineering University of Armenia should be the main counterpart, including its Gumri branch and Vanadzor branch. Other institutes to be possibly involved in the project activities included the State Agricultural University of Armenia with its following specializations – Agricultural machinery and equipment, Transportation and Road traffic organisation and management.

- In Azerbaijan, the Azerbaijan State Technical University in Baku. The Azerbaijan State Marine Academy (ASMA) and the National Aviation Academy should be involved in some of the national project activities, as well.



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- In Bulgaria, the possible counterpart institutions included the University of Architecture, Civil Engineering and Geodesy (Sofia). Other institutes to be possibly involved in the project included the Technical University of Sofia, and the University of National and World Economy of Sofia;

- In Georgia, the Georgian University of Engineering and Engineering Sciences, as the main supplier of transport training activities.

- In Kazakhstan, the Karaganda State Technical University. Further counterpart institutions could be the Euro-Asian University in Astana with its Architectural and Building Institute offering also transport-related sciences, and the Kazakh Academy of Transport and Communications in Almaty.

- In Kyrgyzstan, the State University of Transport, Architecture and Construction. Further counterpart institutions could be the Kyrgyz Technical University with its transport relevant departments.

In Moldova, the Technical University of Moldova, especially

- the Faculty of Urban Planning and Architecture offering Railway, Road and Bridges specialisations as well as surveys and territory organisation, and
- the Faculty of Mechanical Engineering and Management offering among others Transport Engineering and Management, International Transport, Technical operation of road transportation, Computerised diagnostic and examination of vehicles, Transport safety and law.

Further possible project counterparts were the Transport College and Railway College.

In Romania, the Faculty of Transport, chief department for Transport Technics at the Polytechnic University.

In Tajikistan, the Tajik Transport Institute (TTI) and the Tajik Technical University (TTU), which have been integrated.

In Turkey, the Dokuz Eylul University, School of Maritime and Business Management in Izmir.

For Turkmenistan no counterpart institution was identified.

In Ukraine, the National Transport University (NTU); further counterparts were the National Aviation University (NAU) and the Kharkov State Academy of Railway Transport.

In Uzbekistan, the Tashkent Road Automobile Institute (TARI). Further counterparts were the Tashkent State Aviation Institute and the Tashkent Institute of Engineers of Railway Transport.

In the first six months of this project these specific target groups have been re-assessed and most of these institutes have decided to participate in the project. During the implementation of the project also other institutes decided to participate. The project team believes that it has been working with an important segment of the higher education institutes in the TRACECA region (potentially) dealing with topics as transport planning and transport modelling; investment appraisal of transport infrastructure projects; multimodal transportation and interoperability.

2.3 Project activities

In order to achieve the above mentioned project results, the following activities have been carried out:

- Assessment of existing curricula and course contents
- Development of training curricula and course materials
- Training of teaching staff
- Regional training measures
- National seminars





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- Feasibility for regional network of higher education institutes
- Implementation of a regional network of higher education institutes.

2.3.1 Assessment of curricula and course contents

The project has started with an appraisal of existing training curricula related with transport planning techniques and tools; investment appraisal; pedagogical skills, teaching methods and curricula development methods; standardised curricula on multimodal transport and interoperability.

A report with the title "Curricula Appraisal Report" under separate cover made integral part of Interim Report 3. This report, which was elaborated by the project team, gives an overview of the development stage of the beneficiary institutions in the application of the Bologna Process¹ and in the integration of "Transport Planning" (TP), "Investment Appraisal" (IA) and "Multi Modal Transport" (MMT) modules into the education process. The appraisal was carried out on the basis of the preliminary studies, the curricula handed over by universities and training institutions and the meetings with the responsible representatives of the institutions. The appraisal was based on the limited information available but it allows conclusions on common practices in the countries and on development trends to be made.

The assessment reached the following conclusions:

1. Almost all universities are participants in the Bologna Process or, at least, deal with the Bologna Process problems during the higher education reform process. The Bologna Declaration requires the countries (universities) to adapt national curricula to the structure of the European System of Higher Education by 2010. During the current transition period High School Curriculum represents a combination of old and new systems.
2. In the majority of the universities the reform process relates primarily to "Gosstandard" (the State Standard of Higher Education) which allows introduction of Bachelor's and Master's Study Courses. "Gosstandard" determines the number of specializations as well as the course duration and currently allows free choice of higher education subjects (approx. 30% of total course hours). It also applies the credit system which corresponds to the international standards. Therefore, despite the fact that curriculum accreditation is regulated solely by state authority, the possibility to implement new curricula within the optional part of specialization exists.
3. In some universities essential changes and reforms regarding the subjects has taken place, which comply with international standards. Reforms regarding the subjects resulted in the following:
 - new curricula, for example, in the field of transport economics and multimodal transportation are being introduced in Ukraine, at the National Aviation University;
 - the modules "Transport Planning", "Investment Appraisal", "Organization of Multimodal Transport" are partly covered in the training materials for some specializations;

¹ The purpose of the **Bologna Process** (or **Bologna Accords**) is to create the [European higher education area](#) by making [academic degree](#) standards and quality assurance standards more comparable and compatible throughout [Europe](#), in particular under the [Lisbon Recognition Convention](#). The Bologna Process currently has 46 participating countries, whereas there are only 27 Member States of the EU. While the [European Commission](#) is an important contributor to the Bologna Process, the [Lisbon Recognition Convention](#) was actually prepared by the [Council of Europe](#) and members of the Europe Region of [UNESCO](#).



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- in order to ensure a greater flexibility and participation of the interested parties some universities reconsider the new curriculum planning system;
 - at Kazakh Academy of Transport and Communication, the teaching department "Transport Logistics" plans to implement the curricula and use the course materials on multimodal transportation and interoperability.
4. Based on the information available, the modules "Transport Planning" (TP), "Investment Appraisal" (IA) and "Multi Modal Transport" (MMT) are not covered in the lecture materials at the other universities. There is a great interest among almost all universities to implement "Logistics" into the study programmes but only few have started this process (e.g. Azerbaijan Aviation Academy). Main reason is lack of practical experiences in these countries, lack of qualified lecturers and adequate learning materials.
5. The further development of the transport sector in the TRACECA countries would highly benefit from the functioning of a life-long adult learning system for transport education and training to facilitate professional growth of transport staff on a permanent basis. Higher education institutes should create capacity to organize general and tailor-made training programmes for professional staff working in the field of transport planning, investment appraisal and multimodal transportation and interoperability.

Basic attention has to be given to the following aspects in respect to the improvement of professional skills:

- Multimodal transport networks, transport policy, logistics framework, basically, by way of organizational interaction, physical/technical interaction within the limits of one type of transport, between different types of transport and at multimodal transshipment point.
 - Development of faculties on multimodal transport.
 - Modern methods of planning, modelling and forecasting of transportation demand.
 - Acquaintance of teaching staff and students with the newest methods and tools of transport planning.
 - Investment appraisal techniques, including the analysis of financial and economic feasibility, an estimation of ecological influence, estimation of risks and of social and economic influence, of government policy on an overall performance of a given sector.
 - Introduce teaching staff and students to the latest methods and tools of investment appraisal.
 - Pedagogical professionalism and use of modern teaching techniques (case studies, project work, interactive didactics).
 - Perfection of pedagogical skills, methods of training including remote training, and methods of development of corresponding curricula.
 - Exchange between and within universities (e.g. between economic and technical faculties).
6. The project team advises to include the training curriculum "Multimodal Transport" into the *Bachelor study*, preferably into the *specialization part*, because it provides an introduction of all modes of transport, explains the concept of multimodal transportation and interoperability, integrates the different transport modes and complements the existing transport mode related education. The subject of multimodal transportation and interoperability is useful for all modally organized faculties (roads, railways, maritime, aviation).
7. "Investment Appraisal" and "Transport Planning" would probably fit better into the *Master study* since the Master Study specializes and focuses more on economics and





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business administration. Concerning "Investment Appraisal" it is possible to split this module into "Financial Appraisal" for Bachelor study and "Economic Appraisal" for the Master Study. The reason is that "Financial Appraisal" is applicable for all business decisions on investments (e.g. warehouses etc.) while "Economic Appraisal" is used by transport planners and civil engineers for investments in public infrastructure only and is more complex. Both parts, however, are complementary to each other.

2.3.2 Development of training curricula and course materials

The project has developed curricula and course materials for three training programmes: transport planning, traffic forecasting and transport modelling; investment appraisal; multimodal transportation and interoperability.

Each of the three programmes is structured as follows:

Teaching materials divided in two parts:

- Introductory Course for Bachelor / Specialist (Diploma Engineer) 3rd/4th year per semester:
Course Manual;
- Specialization Course for Master: Case Studies.

Bachelor part:

- 18 lectures per 2 hours = 36 hours;
9 seminars / exercises per 2 hours = 18 hours;
total = 54 hours;
18 lectures x 10 pages = 180 pages text (text manual, power point presentation only complementary for train the trainer);

Master part:

- 9 Seminars / workshops x 5 pages = 45 pages guidelines for exercises, case study;
- Case studies.



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Course Outline for Transport Planning, Traffic Forecasting and Transport Modelling

Section	Lecture	Topics
Introduction to Transport Planning	01	General introduction to transport planning
	02	Levels of transport planning
	03	Methodology for transport master planning
	04	Practices from TRACECA region
Transport modelling	05	Introduction to transport modelling
	06	Four stages of transport modelling
	07	Organisation of traffic surveys
	08	Network building and zoning techniques
	09	Matrix AADT
	10	Calibration of the model
Traffic forecasting	11	Future networks,
	12	Forecast methodology
	13	Generated demand
	14	Building of scenarios
Transport modelling software	15	Introduction to transport modelling software
	16	Introduction to transport modelling software - TRANSTOOLS
Relation between transport planning and investment appraisal	17	Traffic forecasting and capacity of the infrastructure network; identification of bottlenecks
	18	Traffic forecasting, value of time and investment appraisal



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Course Outline for Investment Appraisal

Section	Lecture	Topics	Contents
Transport infrastructure policy and planning	01	Infrastructure Policy and Planning,	Strategy and policy, planning process, prioritization of projects legal framework
	02	Infrastructure Financing and Investment Appraisal	Sources of infrastructure financing, appraisal framework
Economic analysis of infrastructure projects	03	Cost Benefit Analysis (1)	General outline of a CBA, objectives definition, project identification, CBA parameters, transport demand forecast, cost and benefit estimation
	04	Cost Benefit Analysis (2)	Estimation of external costs, value of time, value of safety values / decision criteria
	05	Cost effectiveness analysis (CEA) Multi criteria analysis (MCA)	Cost effectiveness analysis (CEA), Multi criteria analysis (MCA)
	06	Sensitivity and Risk Analysis	Scenario analysis, switching values, risk probability analysis
	07	Financial Analysis	Parameters of the financial analysis, financial performance indicators, determination of co-financing rate
Complementary Assessment	08	Ex-ante and ex-post-project appraisal	Case studies
	09	Environmental Impact Assessment	Environmental risk analysis (ERA)
	10	Wider economic and policy impact assessment	Spatial impact analysis, relief and modal shift objectives, distribution and poverty impact assessment (DPA)
Transport mode specific appraisals	11	Transport Mode Rail	Determination of traffic volumes, capacity planning, benefit elements, costs
	12	Transport Mode Road	Determination of traffic volumes, capacity planning, benefit elements, costs



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	13	Transport Mode Waterway	Determination of traffic volumes, capacity planning, benefit elements, costs
	14	Transport Mode Air	Data compilation, capacity planning, expenditures
		Transport Mode Port	Data compilation, capacity planning, expenditures
Master-plans and Feasibility Studies	15	Logistic parks	Functions, organization, technologies, financing
	16	Warehousing	Functions and types, technologies, organisation and processes
	17	Master-planning	Market research, business model, capacity planning, layout planning
	18	Feasibility study	Investment planning, cost benefit calculation, break even analysis



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Course Outline for Multimodal Transport

Section	Lecture	Topics
Logistics and SCM	1	Customer focus, chain management, SCM concepts
Transport Modalities	2	Sea, short-sea, river-sea, IWT
	3	Road, rail, air
	4	Logistics terminals
	5	Comparison of modalities, trade-offs
Multi Modal Transport Systems	6	Definitions, objectives, history
	7	Multi modal systems & equipment: rail oriented; combined transport
	8	Multi modal systems & equipment: water oriented
	9	Markets, players: carriers, forwarders
	10	Interoperability (information, regulations, equipment, unification)
	11	Best practices, latest developments
	12	Contracts, transport costs, external costs, pricing
	13	Documents, ICT applications, tracking & tracing
Legislation, Conventions & Policies	14	EU / CIS legislation & policies, infrastructure
	15	International conventions, market access
	16	Liability, insurance, risk assessment, claims handling
	17	Customs: EU / CIS import / export procedures
	18	Hazardous and perishable goods regulations

For these three curricula full sets of training materials were developed in both Russian and English language. The electronic version of the three handbooks in Russian and English can be found on the CD-ROM that accompanies this report.

Also attention has been paid to pedagogical skills and teaching methods and development of interactive training materials in an e-learning environment. A temporary website was created (www.tracecatraining.org) by the project to support the implementation of the project. On this website most training materials developed within the framework of the project has been made available. Also materials developed on pedagogical skills and teaching methods was put on this website. The website was divided into two sections: a public domain with the paper-based versions of the training materials and other relevant project information; and a restricted area for e-learning purposes using DOKEOS. All participants of the training programmes and involved higher education institutes in the TRACECA region have received access to this restricted part of the website. A substantial part of the training materials was re-elaborated in an e-learning environment to show the possibilities of using an e-learning educational system. The main contents of the website has been transferred to the official TRACECA-website (www.traceca-programme.eu) managed by the TRACECA IDEA project.

Also a TRACECA regional atlas of transport and trade flows has been produced. This atlas is a complement to the developed training materials. An electronic version of the atlas can be found on the CD ROM, which accompanies this report.



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2.3.3 Training of teaching staff

Training of teaching staff in transport planning techniques and tools; investment appraisal; pedagogical skills, teaching methods and curricula development methods; multimodal transport and interoperability was realised through the organisation of regional training programmes and national seminars. The project team also took the opportunity to discuss during visits to the higher educational training institutes with local lecturers and teaching staff the developed curricula and training materials. The created website www.tracecatraining.org has also been widely used for these training purposes. It is difficult to quantify the exact number of teaching staff and lecturers and young scientists and students that have benefitted from the developed teaching materials.

2.3.4 Regional training measures

The following regional training measures have been organized:

Regional Symposium in Tbilisi, Georgia on Transport planning technique and tools - traffic forecasting and simulation	March 16-20, 2009
Regional Symposium in Istanbul, Turkey on Economic and financial appraisal techniques including Cost Benefit Analysis and Environmental Impact Assessment	April 20-24, 2009
Training/study tour Netherlands/Germany on Multimodal transport and interoperability	May 11-18, 2009
Regional workshop on Pedagogical and educational methods and e-learning in Chisinau, Moldova	October 26-30, 2009

- 1) Training of teaching staff on Transport planning technique and tools, traffic forecasting and simulation

Location: Tbilisi, Georgia

March 16-20, 2009

The *first regional training measure* took place from March 16-20, 2009 in Tbilisi, Georgia in the form of a regional symposium on transport planning techniques and tools – traffic forecasting and simulation.

This symposium counted with 22 participants from 12 TRACECA countries. The evaluation of this regional symposium was very good: 72% excellent; 23% good; 5% neutral.

- o All participants agreed that the training programme was only a starting point for a 'new wave' of strengthening the transport planning capacity in the TRACECA region.
- o The subject of transport planning, transport modelling and traffic forecasting is very complex and requires high technical knowledge and skills.
- o In many TRACECA countries, this topic is relatively new. It is important that the training effort will become sustainable by improving co-operation between the TRACECA countries.
- o The establishment of a regional network as envisaged by the project, therefore, is highly needed.
- o It is observed that a common planning tool for TRACECA countries for corridor development would be very useful. The presented TRANS-TOOLS model could be extended to TRACECA countries to fulfil this purpose.

- 2) Training of teaching staff on Investment appraisal of transport infrastructure projects

Location: Istanbul, Turkey





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April 20-24, 2009

The *second regional training measure* was organized in Istanbul, Turkey on Economic and financial appraisal techniques including Cost Benefit Analysis and Environmental Impact Assessment between April 20-24, 2009. It has combined the regional training measures on investment appraisal and environmental impact assessment into one event.

This regional symposium counted with 22 participants from 11 TRACECA countries. The evaluation of this programme was very good: 62% excellent; 34% good; 5% neutral.

- A difficult aspect is to where to host this curriculum as it could be part of the curricula of transport universities, which do hardly pay attention to economic and financial feasibility studies of transport infrastructure projects, but also of economic faculties.
- It is important to exchange experiences and case studies which apply Cost Benefit Analysis and Environmental Impact Assessment.

3) Training of teaching staff on Multimodal transportation and interoperability

Location: Germany and the Netherlands

May 11-18, 2009

The *third regional training measure* took the form of a study tour on multimodal transport and interoperability to Germany and the Netherlands was organized from May 11-18, 2009.

This regional training measure counted with 19 participants from 10 TRACECA countries. The evaluation of this programme was good: 67% excellent; 28% good; 5% poor.

- The study tour proved to be very useful as practical examples for multimodal transportation and interoperability were highlighted. Also new ideas and suggestions were made to include case studies, management games, simulation games and practical examples in the curriculum.
- The study tour also facilitated discussion about co-operation among higher education institutes in the TRACECA region.
 - One of the most outcomes of this study tour was that the participants stressed that a core group should be formed of decision-makers, who could become the drivers for change.
 - Instead of involving as many persons as possible in all the training events, most participants stressed the importance of having the same people participating in several training events.
 - The position of the project management in this respect is that it will balance between the two options: for reasons of continuity and sustainability it is possible that delegates participate in more than one training event; from the other side it is also good to involve more people in the training measures.

4) Training of teaching staff on Pedagogical and educational methods and e-learning

Location: Chisinau, Moldova

October 26-30, 2009





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The *fourth regional training measure* had the form of a regional workshop on Pedagogical and educational methods and e-learning. This workshop took place between October 26-30, 2009 in Chisinau, Moldova.

This regional workshop counted with 22 participants from 11 TRACECA countries. The evaluation of the overall programme was very good: 89% excellent and 11% good.

- The workshop was held in an interactive way and there was a clear need expressed by the participants to continue this kind of interaction among universities and higher education centres in the TRACECA countries.

There were originally two regional training measures planned on Transport Policy and Public Private Partnership. As there was apparently overlap with other operational TRACECA projects like the IDEA project, it was decided after consultation with the European Commission not to organize separate regional seminars on these topics, but further elaborate on the development of the curricula on transport, investment appraisal and multimodal transportation. It allowed the project to spend more resources on the organization of national seminars in the TRACECA countries to discuss and disseminate the project results.

The regional training events in Tbilisi, Georgia; Istanbul, Turkey; Germany/The Netherlands; and Chisinau, Moldova achieved their objectives. With the organisation of such regional training events, it became more and more clear that there is an imminent need for a platform for exchange of experiences and information about curricula development, training methodologies and course materials in the fields of transport planning, investment appraisal of transport infrastructure projects and multimodal transportation. In particular, the interactive nature of the events was highly appreciated, which provided the participants the opportunity to discuss their problems openly with colleagues from other universities.

The fourth regional workshop produced new concepts for developing curricula, teaching methods and application of e-learning environments for training. At this regional workshop further discussions took place on the current status of curricula development, Gosstandards, the Bologna process and possible integration of the developed training modules into the curricula. The main results of the discussion are showed below:

Transport curricula - Higher education is regulated by Gosstandard. It is possible to include the subjects Transport Planning, Investment Appraisal, Multimodal Transport into the Gosstandard via decision and recommendation of the scientific councils, but this way is very bureaucratic and difficult. In almost all countries there is the freedom to include the above mentioned subjects within a specialization part, which amounts for 30% of the hours. The specializations are developed according to the demands of the labour market and approved by the scientific councils.

Multimodal transport - Obviously there is a common understanding among the participants that Multimodal Transport should be included within the bachelor study, while Transport Planning – at least in the specialization part – and Investment Appraisal should be part of Master studies.

Teaching methods - Concerning didactical methods, up to now front teaching prevails at the universities. In few cases case studies are applied. Business games are not introduced yet although there is a high demand to develop and to implement business games. The students should make more presentations, projects, thesis etc.

Lecturers - There is a problem with lecturers. Many do not have experience in applying new computer techniques as presentations in Power Point, internet and e-learning. It is also clear that the new proposed subjects are difficult to implement without trained staff. Who will teach the new subjects? Special handbooks and training in particular for younger teachers or PhD





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students on the subjects Transport Planning, Investment Appraisal, Multimodal Transport are necessary. More training of lecturers and use of more practical case studies, site visits etc. are badly needed. Guest lecturers from the transport industry should be invited to complement training by the lecturers.

2.3.5 National seminars

In the period February-May 2010, *eight national dissemination seminars* have been held in Azerbaijan, Armenia, Georgia, Tajikistan, Ukraine, Moldova, Uzbekistan and Kazakhstan.

<i>National seminar Azerbaijan</i>	<i>February 16-19, 2010</i>
<i>National seminar Armenia</i>	<i>March 1-3, 2010</i>
<i>National seminar Georgia</i>	<i>March 3-5, 2010</i>
<i>National seminar Tajikistan</i>	<i>March 17-19, 2010</i>
<i>National seminar Ukraine</i>	<i>April 12-14, 2010</i>
<i>National seminar Moldova</i>	<i>April 14-16, 2010</i>
<i>National seminar Uzbekistan</i>	<i>May, 4-6, 2010</i>
<i>National seminar Kazakhstan</i>	<i>May, 6-7, 2010</i>

Due to local circumstances it was not possible to organise a national seminar in the Kyrgyz Republic, which was scheduled for May 2010. In total more than 150 experts participated in these national seminars.

The main objective was to discuss the deliverables of the project and the possible use of the deliverables by the higher educational institutes and universities in the countries. Many countries have made an effort to fine tune the curricula and training materials to their specific needs for practical use and integration into their teaching programmes.

The national seminars have played an important role in the process of dissemination of the deliverables of the project: curricula; training materials; teaching methods. They have stimulated deans of universities and faculties, lecturers, researchers to use the developed curricula and training materials in their daily working practice.

In most countries another important achievement has taken place: to bring different higher education institutes in one country together to learn from each other and to share experiences. Many countries have specialized universities for the different modes of transport (roads; railways; maritime; aviation) and there is almost no co-ordination and co-operation between those universities. In particular, the training programme on multimodal transportation and interoperability has proven to be useful for all of these modal organized education institutes and could constitute the vehicle for further co-operation among themselves.

2.3.6 Feasibility for regional network of higher education institutes

This final progress report is accompanied by a report "Discussion Paper on the Establishment of a Network of Regional Connections for Advanced Transport Training in the TRACECA Region". The objective of this network is to exchange information on the development and use of new developed curricula in the field of transport planning, investment appraisal and multimodal transportation in the TRACECA region. This report is based on a survey carried out by the project among the main stakeholders of the project in the TRACECA region.

There is a wide range of universities, faculties and training institutes in the TRACECA region. Some of these universities are mode specific organized: aviation; railways; maritime; roads, etc. The engineering aspects of transport are widely covered. Many curricula also present general disciplines as history, philosophy, national and foreign languages, mathematics, physics, etc.





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However, there is a strong need for more economic and financial approaches towards transport infrastructure investment planning as financial resources become more and more a constraint for implementation of transport infrastructure projects and the 'value for money' concept is getting more acceptance among the relevant authorities in the TRACECA countries. As such, ready made training curricula on transport planning, investment appraisal and multimodal transportation and interoperability were rarely found. Many universities and faculties have showed their interest. Gradually a group of universities is emerging from different TRACECA countries which are showing real interest in changing and/or introducing the new curricula and applying the new teaching methods including e-learning. This is also related with the overall restructuring process of the higher education system in the TRACECA region towards a Bachelor-Master structure along the lines of the Bologna process, which hopes to achieve a common European Higher Education Area by 2010. The table below presents a non-exclusive list of the main higher educational institutes which have been contacted by the project and participated in the implementation of the project. They have showed interest in participating actively in a regional network of higher education institutes in the TRACECA region in the field of transport education:

Armenia	State Engineering University of Armenia (SEUA)	Gagik Musayelyan	Dean of the Transportation Systems Faculty, Head of the Automobiles Chair.	mobsect@seua.am ; transys@seua.am +37410 582330; +37493 885193
Armenia	Armenian State Agrarian University (SAUA)	Norik A. Bazikyan	Dean of Engineering Faculty, Head of Farm Mechanization and Transportation Chair.	n.bazikyan@mail.ru +37410567979 +37410 651716 +37493 253200
Azerbaijan	Azerbaijan Technical University	Mr. Sulhaddin K. Gozalov	Director of Transport Academy	sssz@mail.ru +994502212868 mobile
Georgia	Georgian Technical University, Transportation Faculty	Mr. Otari Gelashvili	Dean of Faculty	+99532364035 +99599922223 mobile
Georgia	Caucasus School of Business, Caucasus University	Iremadze David	Associate Professor of Management and International Studies, Director CSB Graduate Studies	diremadze@geoeduconsulting.com
Kazakhstan	Kazakh Academy of Transport and Communications named after M. Tynyshepaev (KazATC)	Adylbek K. Botabekov	President – Rector	botabekov@rambler.ru
Kazakhstan	Eurasian National University Astana	Tazabekov Iman	Professor	+87051008360
Kyrgyz Republic	Kyrgyz State Technical University	Mr. Torobekov Bekjan	Vice rector of educational work	Bekjan2003@mail.ru
Kyrgyz Republic	Kyrgyz State University of Construction, Transportation and Architecture	Shatmanov Orozbek Toktogulovich	Director of Institute of Transportation and Communications	intranscom@gmail.com
Moldova	Technical University	Mr. Ceban Victor	Head Transport engineering and transport management	Dr_ceban@mail.md
Moldova	Transport College	Mr. Boris Rusu	Director	ctca@araxinfo.com
Tajikistan	Tajik Technical University "M.S.Osimi" Faculty of Transport	Prof. Dr. Tursunov Abdukahhoz Abdusamadovich	Dean	abdukahhoz@mail.ru +992 37 223 07 01



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Turkey	Dokuz Eylul Universitesi School of Maritime Business and Management	Mrs. Güldem Cerit	Rector	gcerit@tnn.net
Ukraine	National Transport University	Mr. M. Dmytrychenko	Rector NTU	dmitrichenko@ntu.edu.ua
Ukraine	National Aviation University	Mr. Rinat M. Salimov	Prof. Vice-rector	rsalimov@nau.edu.ua
Uzbekistan	Institute for Automobile Transport and Road Construction	Mr. Abdurahim Abdurahmonov Abdurahmanovich	Vice rector for education	
Uzbekistan	Tashkent Institute for Railway Transport Engineers	Mrs. Ferusa Fusailovna Karimova	Pro-rector for education	http://www.tashit.uz +998712220401

At the national seminars also some other higher education institutes and universities participated, which were not contacted before.:

Azerbaijan	National Aviation University	Nadzhafov Elman		
Azerbaijan	Azerbaijan State Maritime Academy	Samedov Imran		
Georgia	Georgian Aviation University	Yuri Sukhitashvili	Quality Department Professor	yuritbs@mail.ru
Kazakhstan	Almaty Railway College	Kadyrova Meruert	Head of Chair	+87771668323
Kazakhstan	KDU	Ualkhanov Baijan	Head of Chair	ualkhanov@mail.ru +87017370628

They may also participate in the regional network of transport education institutes in the TRACECA region.

2.3.7 Implementation of a regional network of higher education institutes

The project has started with the implementation of a regional network of higher education institutes. However, the project website www.tracecatraining.org, which has been an integrating component of this network, will be closed after the completion of the project. It is important that the TRACECA Permanent Secretariat takes it over by creating a dedicated site on the common website www.traceca-programme.eu.



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3 Conclusions and recommendations

3.1.1 Development of curricula

- The project team has found that the level of curricula and contents in the new Bachelor and Master programmes differ substantially from country to country. In almost all countries there is a lack of experience in Bachelor and Master courses. Also if and how the subjects of Transport Planning, Investment Appraisal and Multimodal Transportation and Interoperability should be integrated needs more detailed consideration and discussion.
- The development process is connected with changes in the study programmes, the educational system and in the university structures. Therefore, the integration of the newly developed curricula in the field of transport planning, investment appraisal and multimodal transportation and interoperability in this restructuring process will be an ongoing process and will continue after the completion of the project.
- Some universities are in a restructuring process of their training curricula developing the new Bachelor-Master structure. Taking this into account, the regional network of transport education institutes could fulfil an important role in exchanging information among the institutes and to assist individual education institutes in their efforts to modernize their curricula in the field of transport planning, investment appraisal and multimodal transportation.
- Many higher education institutes have stressed the need for the development of a training curriculum on logistics including topics as planning, management and operation of logistic centres; supply chain management; warehousing and distribution; transport logistics; logistic performance of TRACECA countries; etc. This was confirmed by the participants during the seminars.

Recommendations:

- TRACECA and the regional network of transport education institutes should facilitate exchange of experiences in developing training curricula and provide assistance to institutes which would like to renew their existing curricula.
- TRACECA should promote the development of a new training curriculum on logistics.
- Higher education institutes should develop facilities and systems for life-long adult learning for professional staff in the transport sector.

3.1.2 Development and exchange of training materials

- The training materials developed under the project have proven to be useful for the beneficiaries. However, there is a need to exchange experiences and training materials among different higher education institutes in the TRACECA countries and also between European universities and the beneficiary institutes in the TRACECA region on a regular basis. Very useful is the exchange of concrete case studies, which can be used for training purposes.
- It is also necessary to elaborate complementary national-specific training materials to the handbooks on transport planning and investment appraisal, integrating national planning standards and economic and financial values for items as:
 - Construction costs per km rail, road, bridges etc.
 - Opportunity costs of land use
 - Value of time for passengers and cargo
 - Costs of injured and dead persons
 - Etc.



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- It is important to bring more practical examples and case studies into the training materials. Bachelor and Master studies require much more practical and industry related studies and project work than the front-teaching prevailing up to now.
- Working relations between higher education institutes and universities and the industry and transport ministries exist only in exceptional cases. Industry-related project work within the curricula could be the missing link to the industry and to the know-how transfer in both directions.
- Application of project management, business and simulation games would be a useful complement to the existing training of the co-operating universities and higher education centres. The STC-Group in Rotterdam, one of the partners in this project, has developed several management games, such as the Supply Chain Simulator. It would be very useful to develop and apply similar training tools for the TRACECA countries.
- The established regional network of training institutes can play an important role in realizing these recommendations by providing an interactive website in Russian and English and organizing regular conferences.

Recommendations:

- TRACECA should promote the development and exchange of relevant training materials and practical case studies through the regional network and/or the creation of a common website and platform.

3.1.3 Training of teaching staff

- There is a strong need for training of teaching staff and lecturers on a regular basis in transport planning and investment appraisal of transport infrastructure projects. During the organization of the national seminars it became clear that further training of trainers is essential. Lecturers in transport planning and investment appraisal should be trained during a longer period.
- It is highly recommended to organize study groups of lecturers in the three curricula that the project has developed: transport planning; investment appraisal of transport infrastructure projects; multimodal transportation and interoperability. These groups may build-up a regional network of expertise in their area of specialization to learn from each other and exchange professional experiences. This can also be linked to the present TRACECA IDEA project and the recently established expert group on the TRACECA freight model and the GIS system for the TRACECA region.

Recommendations:

- TRACECA should promote the continuous training of teaching staff in transport planning and investment appraisal and stimulate exchange programmes between lecturers and students from different higher education institutes.

3.1.4 Organization of regional and national seminars and conferences

- The organization of regional seminars has proven to be a very useful way to exchange experiences among different higher education institutes in the TRACECA region. Deans and lecturers are free from their daily professional worries and have the opportunity to reflect upon their work and to discuss ways for improvement.
- Also the networking is very important by establishing contacts with other colleagues and exchange information.
- The established network of regional links for advanced transport training may be the vehicle for organizing regional seminars on a regular basis.
- The national seminars have played an important role in the process of dissemination of the deliverables of the project: curricula; training materials; teaching methods.





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- In most countries another important achievement has taken place: to bring different higher education institutes in one country together to learn from each other and to share experiences. Many countries have specialized universities for the different modes of transport (roads; railways; maritime; aviation) and there is almost no co-operation between those universities. In particular, the training programme on multimodal transportation and interoperability has proven useful for all of these modal organized education institutes.

Recommendation:

- TRACECA should promote the organization of regional and national seminars and conferences to facilitate exchange of information and experiences in the field of higher transport education in the TRACECA region.

3.1.5 Implementation of a regional network of higher education institutes

- The regional network of higher education institutes needs some further support from TRACECA to materialize and to become sustainable.
- The creation of virtual platform and the organization of regional seminars and conferences can be a way to achieve this.

Recommendation:

- TRACECA should establish a virtual platform for co-operation between higher education institutes.

3.1.6 Linking higher education institutes with Ministries of Transport

- It is considered important that Ministries of Transport have the opportunity to benefit from the new curricula and training materials.
- Therefore, it would be very useful that the higher education institutes organize master-classes in transport planning, investment appraisal and multimodal transportation and interoperability for transport planners and transport policy makers.
- The links between training institutes and Ministries of Transport can further be reinforced and institutionalized by establishing bilateral cooperation between the two entities in various fields: inflow of young graduates without any professional experience into the Ministry; offering of short-term probationer programmes for students at the Ministry of Transport; jointly organizing lectures, seminars, workshops, conferences, etc.

Recommendation:

- TRACECA should promote co-operation links between higher education institutes and Ministries of Transport.



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4 Project deliverables on CD-ROM

The CD-ROM, which accompanies this final progress report consists of the following documentation:

Project Reports

- Inception Report in English
- Inception Report in Russian
- Interim Report 1 in English
- Interim Report 1 in Russian
- Interim Report 2 in English
- Interim Report 2 in Russian
- Interim Report 3 in English
- Interim Report 3 in Russian
- Interim Report 4 in English
- Interim Report 4 in Russian
- Final Progress Report in English
- Final Progress Report in Russian

Technical Reports

- Handbook Transport Planning and Transport Modelling in English
- Handbook Transport Planning and Transport Modelling in Russian
- Handbook Investment Appraisal in English
- Handbook Investment Appraisal in Russian
- Handbook Multimodal Transportation in English
- Handbook Multimodal Transportation in Russian
- TRACECA Transport and Trade Atlas (bilingual English and Russian)
- Curricula Appraisal Report
- Discussion note on the Establishment of a Network of Regional Connections for Advanced Transport Training in the TRACECA Region
- Background materials, presentations and training tools on transport planning, investment appraisal and multimodal transportation



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Annex 1 Chronological overview of visits, meetings and events



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September 3, 2008	Kick-off meeting project team in the Netherlands	Preparation of project implementation	
September 8-12, 2008	Visit to Romania	Starting-up project Romania	<i>René Meeuws</i>
September 8-9, 2008	Meeting in Moscow	Meeting with Rector Technical University in Baku to discuss involvement in project	<i>Mikhail Prokofiev</i>
September 15-19, 2008	Visit to Kazakhstan and Kyrgyz Republic	Start-up project Kazakhstan and Kyrgyz Republic	<i>René Meeuws, Irina Starkova</i>
September 15-19, 2008	Visit to Uzbekistan	Start-up project Uzbekistan	<i>Norbert Wagener</i>
September 20-28, 2008	FIATA World Congress in Vancouver, Canada	Contacts established with Multimodal Transport Operators to discuss multimodal transportation and interoperability	<i>Mikhail Prokofiev</i>
September 22-26, 2008	Visit to Kazakhstan	Participation in International Forum Transeurasia 2008 in Astana and meeting with several TRACECA National Secretaries	<i>René Meeuws, Cas van der Baan, Irina Starkova</i>
October 2, 2008	Visit to Brussels, EuropeAid Co-operation Office A/3	Discussion on first project findings	<i>René Meeuws</i>
October 6-8, 2008	Visit to Moldova	Start-up project Moldova	<i>Cas van der Baan, Nina Nesterova</i>
October 10, 2008	Visit to Brussels	Meeting with TRACECA National Secretary from Moldova	<i>René Meeuws, Nina Nesterova</i>
October 13-17, 2008	Visit to Ukraine	Start-up project Ukraine	<i>René Meeuws, Irina Starkova, Ekaterina Bassova</i>
October 13-17, 2008	Visit to Tajikistan and Turkey	Start-up project Tajikistan and Turkey	<i>Norbert Wagener, Mikhail Prokofiev</i>
October 14-15, 2008	Visit to Brussels	Participation in Conference on Trans European Transport Networks	<i>Nina Nesterova</i>
October 20-24, 2008	Visit to Armenia and Georgia	Start-up project Armenia and Georgia	<i>René Meeuws</i>
October 27-30, 2008	Visit to Azerbaijan	Start-up project Azerbaijan	<i>René Meeuws, Irina Starkova</i>





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November 4-5, 2008	Meeting in Berlin	Discuss outline training programmes	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev, Cas van der Baan, George Emmanoulopoulos</i>
November 11-14 and November 24-28, 2008	Visits to Kazakhstan	Contact higher education institutes for participation in project	<i>René Meeuws, Mikhail Prokofiev, Elizabeth van Groll, Irina Starkova</i>
December 1-3, 2008	Visit to Bulgaria	Contact higher education institutes for participation in project	<i>René Meeuws, Nina Nesterova, Kristiana Chakarova</i>
December 9-10, 2009	Visit to Romania	Contact higher education institutes for participation in project	<i>Norbert Wagener, Cas van der Baan</i>
December 15, 2008	Meeting in the Netherlands on website development and e-learning	Website development and development of e-learning system for project	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev, Elizabeth van Groll, Jan van Trigt, Carlos Suso</i>
January 26-29, 2009	Meeting in Greece on the development of curricula and training materials	Development of curricula and discussion training materials	<i>René Meeuws, Norbert Wagener, Cas van der Baan, Arnaud Burgess, George Emmanoulopoulos, Olga Varveri, Panos Christopoulos, Iro Dimitriadou, Konstantinos Georgiou</i>
January 30, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	Discussion on progress project	<i>René Meeuws</i>
February 9-12, 2009	Meeting in Zoetermeer with local experts from Kazakhstan and Bulgaria to discuss the TRACECA Transport and Trade Atlas	Discuss outline and contents TRACECA Transport and Trade Atlas	<i>René Meeuws, Nina Nesterova, Arnaud Burgess, Padideh Gutschow, Kristiana Chakarova, Roman Andrutskiy, Gulnara Bekmagambetova, Irina Starkova</i>
February 9-12, 2009	Visit to Ukraine	Visit higher education institutes for participation in project	<i>Mikhail Prokofiev, Ekaterina Bassova</i>
March 2-3, 2009	Visit Geneva Global Trade Facilitation Partnership	Promotion/dissemination project at Global trade Facilitation Partnership	<i>René Meeuws</i>
March 16-20, 2009	<i>Regional Symposium in Tbilisi, Georgia on Transport planning</i>	First training measure	<i>René Meeuws, Arnaud Burgess, Roman Andrutskiy, Irina Starkova, George Emmanoulopoulos, Olga Varveri</i>





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	<i>technique and tools - traffic forecasting and simulation</i>		
March 27, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	Discussion on progress project	<i>René Meeuws</i>
March 31 – April 2, 2009	Visit to Ukraine	Visit National Transport University to discuss e-learning techniques and liaison with other TRACECA project on Logistic Centres	<i>René Meeuws, Norbert Wagener, Ekaterina Bassova</i>
April 7-10, 2009	Visit to Kazakhstan	Discussion on TRACECA Transport and Trade Atlas and visit higher education institute in Almaty	<i>René Meeuws, Mikhail Prokofiev, Gulnara Bekmagambetova, Roman Andrutskiy, Irina Starkova</i>
<i>April 20-24, 2009</i>	<i>Regional Symposium in Istanbul, Turkey on Economic and financial appraisal techniques including Cost Benefit Analysis and Environmental Impact Assessment</i>	Second and Third training measure	<i>René Meeuws, Norbert Wagener, Geert Smit, Nina Nesterova, Roman Andrutskiy, Irina Starkova, Panos Christopoulos, Iro Dimitriadou, Kostas Georgiou, Mikhail Prokofiev, Elizabeth van Groll</i>
April 28 – May 1, 2009	Visit to Kazakhstan	Preparation Study Tour to the Netherlands/Germany and co-ordination TRACECA Transport and Trade Atlas	<i>René Meeuws, Gulnara Bekmagambetova, Roman Andrutskiy, Irina Starkova</i>
<i>May 11-18, 2009</i>	<i>Training/study tour Netherlands/Germany on Multimodal transport and interoperability</i>	Fourth training measure	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev, George Emmanoulopoulos, Irina Starkova, Cas van der Baan, Nina Nesterova, Elizabeth van Groll</i>
June 3, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	Discussion on progress project	<i>René Meeuws</i>
June 4-5, 2009	Meeting in Germany	Preparation regional seminar	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev</i>





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		on pedagogical and educational methods and e-learning in Moldova	
June 8-13, 2009	Visit to Kazakhstan	Working on TRACECA Transport and Trade Atlas and participation in IRU Eurasian Road Transport Conference	<i>René Meeuws, Norbert Wagener, Irina Starkova, Gulnara Bekmagambetova</i>
July 5-7, 2009	Visit to Armenia	Visit higher education institutes for participation in project	<i>Mikhail Prokofiev, Tetyana Karatyeyeva</i>
July 13-17, 2009	Visit to Kazakhstan and Kyrgyz Republic	Visit higher education institutes for participation in project	<i>René Meeuws, Norbert Wagener, Cas van der Baan, Irina Starkova</i>
July 21-24, 2009	Visit to Ukraine	Prepare regional symposium on transport infrastructure financing and PPP and trends in transport infrastructure policy and management	<i>René Meeuws, Cas van der Baan, Mikhail Prokofiev, Ekaterina Bassova</i>
July 30, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	Discussion on progress project and agreement on cancellation regional symposium on transport infrastructure financing and PPP and trends in transport infrastructure policy and management.	<i>René Meeuws</i>
August 11-14, 2009	Visit to Azerbaijan	Meeting with PS TRACECA; liaison with IDEA project; discussion with Technical University Baku	<i>René Meeuws</i>
August 17-21, 2009	Visit to Georgia	Discussion with Georgian Technical University and TRACECA National Secretary	<i>René Meeuws, Norbert Wagener</i>
August 28, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	Discussion on progress project	<i>René Meeuws</i>





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September 15-17, 2009	Visit to Ukraine	Discussion with Ministry of Transport and Logistics Platform; participation in Conference on Agrologistics	<i>René Meeuws</i>
September 23-25, 2009	TRACECA Co-ordination meeting in Brussels	TRACECA Co-ordination Meeting	<i>René Meeuws</i>
September 28-October 1, 2009	Visit to Turkey	Participation in 9th Transportation Forum and meeting with TRACECA National Secretary; meeting with higher education institutes	<i>René Meeuws</i>
October 15-16, 2009	Meeting in Germany	Preparation regional seminar on pedagogical and educational methods and e-learning in Moldova	<i>René Meeuws, Norbert Wagener</i>
October 22, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	Discussion on progress project	<i>René Meeuws</i>
October 26-30, 2009	<i>Regional workshop on Pedagogical and educational methods and e-learning in Chisinau, Moldova</i>	Fifth training measure	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev, George Emmanoulopoulos, Irina Starkova, Cas van der Baan, Nina Nesterova, Govert van den Aardweg, Ben Janssen</i>
November 4-6, 2009	Visit to Bulgaria	Preparation TRACECA Transport and Trade Atlas	<i>René Meeuws, Kristiana Chakarova</i>
November 11-13, 2009	Visit to Bulgaria and Romania	Preparation TRACECA Transport and Trade Atlas in Bulgaria and meeting with higher education institute in Bucharest	<i>René Meeuws, Kristiana Chakarova</i>
November 17-20, 2009	Visit to Georgia	Discussion organisation national seminar in Georgia	<i>René Meeuws</i>
November 23, 2009	Visit to the Netherlands	Discussion regional co-ordinator with team leader to prepare for TRACECA co-ordination meeting in Baku	<i>Ekaterina Bassova</i>





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November 29–December 4, 2009	TRACECA Co-ordination meeting in Baku, Azerbaijan	Participation in TRACECA co-ordination meeting in Baku	<i>René Meeuws, Irina Starkova, Arnaud Burgess, Nina Nesterova</i>
December 7-9, 2009	Visit to Ukraine	Discussion curriculum multimodal transportation and participation in 3rd International Conference on Logistics Centres	<i>Cas van der Baan, Ekaterina Bassova</i>
December 9-11, 2009	Meeting in Germany	Preparation national seminars	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev</i>
December 14-15, 2009	TRACECA Co-ordination meeting in the Netherlands (IDEA and Training project)	Discussion on indicators to measure logistics performance in TRACECA	<i>René Meeuws, Nina Nesterova, Tetyana Karatyeyeva</i>
December 14-16, 2009	Visit to Kyrgyzstan	Preparation national seminar Kyrgyz Republic	<i>Norbert Wagener</i>
January 7-8, 2010	Meeting in Germany	Preparation national seminars	<i>René Meeuws, Norbert Wagener</i>
January 11-13, 2010	Visit to Romania	Discussion feasibility regional training centre in Romania	<i>René Meeuws</i>
January 18-21, 2010	Visit to Ukraine	Preparation national seminar Ukraine	<i>René Meeuws, Ekaterina Bassova</i>
January 27, 2010	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	Presentation TRACECA Transport and Trade Atlas	<i>René Meeuws</i>
February 1-6, 2010	Visit to Kazakhstan	Preparation national seminars	<i>René Meeuws, Elizabeth van Groll, Irina Starkova</i>
<i>February 16-19, 2010</i>	<i>National seminar Azerbaijan</i>	National training measure Dissemination project results; discussion on future co-operation	<i>René Meeuws, Norbert Wagener, Cas van der Baan, Nina Nesterova, Irina Starkova</i>
<i>March 1-3, 2010</i>	<i>National seminar Armenia</i>	National training measure Dissemination project results; discussion on future co-operation	<i>René Meeuws, Norbert Wagener, Cas van der Baan, Nina Nesterova, Irina Starkova</i>
<i>March 3-5, 2010</i>	<i>National seminar Georgia</i>	National training measure Dissemination project results; discussion on future co-operation	<i>René Meeuws, Norbert Wagener, Cas van der Baan, Irina Starkova</i>
<i>March 17-19, 2010</i>	<i>National seminar Tajikistan</i>	National training measure Dissemination project results;	<i>René Meeuws, Norbert Wagener, Irina Starkova</i>





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		discussion on future co-operation	
April 12-14, 2010	National seminar Ukraine	National training measure Dissemination project results; discussion on future co-operation	René Meeuws, Mikhail Prokofiev, Cas van der Baan, Tetyana Jacobs, Irina Starkova
April 14-16, 2010	National seminar Moldova	National training measure Dissemination project results; discussion on future co-operation	René Meeuws, Mikhail Prokofiev, Cas van der Baan, Tetyana Jacobs, Irina Starkova
April 26-27, 2010	Meeting with Eva Molnar, Director Transport UN ECE in Geneva	Dissemination project results to UN ECE	René Meeuws
April 28-29, 2010	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office/ participation EIB conference	Discussion on progress project; participation in EIB Conference	René Meeuws
May, 4-6, 2010	National seminar Uzbekistan	National training measure Dissemination project results; discussion on future co-operation	René Meeuws, Irina Starkova
May, 6-7, 2010	National seminar Kazakhstan	National training measure Dissemination project results; discussion on future co-operation	René Meeuws, Norbert Wagener, Irina Starkova
May 17-19, 2010	Visit to Romania and meeting with Ionut Iordache	Discussion on participation Romania in project	René Meeuws
May 24-27, 2010	TRACECA meeting Antalya, Turkey	Participation in TRACECA meeting Antalya	René Meeuws, Nina Nesterova
June, 16-18, 2010	Meeting in Potsdam about preparation final seminar	Preparation final seminar	René Meeuws, Norbert Wagener, Tetyana Jacobs
June 28-30, 2010	Visit to Kazakhstan about preparation final seminar	Preparation final seminar	René Meeuws, Irina Starkova
July 6-7, 2010	TRACECA IDEA workshop in	Participation in IDEA workshop	René Meeuws





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	Brussels	on transport modelling for TRACECA	
July 12-15, 2010	WCTRS Conference on Transport Research	Peer reviewer of papers on Training in Transport Planning in TRACECA countries and participation in workshops. Dissemination deliverables and TRACECA atlas	<i>René Meeuws, Nina Nesterova</i>
July 19-20, 2010	Meeting in Potsdam	Discussion on establishment regional network of transport training institutes in TRACECA countries	<i>René Meeuws, Norbert Wagener, Tetyana Jacobs</i>
September 1, 2010	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	Discussion on progress project	<i>René Meeuws</i>
September 15-17, 2010	Visit to Kiev, Ukraine	Discussion with Logistics Platform about sustainability training efforts and establishment regional network in Ukraine and participation in International Conference on Agrologistics as speaker	<i>René Meeuws, Ekaterina Bassova</i>
September 20-24, 2010	Visit to Kazakhstan	Discussion about sustainability training efforts in Kazakhstan and establishment regional network	<i>René Meeuws, Irina Starkova, Gulnara Bekmagambetova</i>
October 4-9, 2010	Visit to Malaysia	Asia-Pacific Trade Facilitation Forum and Global Transport and Trade Facilitation Partnership Conference; presence countries from Central Asia and Caucasus; dissemination project results on training and establishment regional network on training institutes	<i>René Meeuws</i>





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October 11-13, 2010	TRACECA meetings Brussels	Participation in TRACECA meeting and TRACECA Investment Forum in Brussels	<i>René Meeuws, Nina Nesterova, Norbert Wagener, Geert Smit</i>
November 8-10, 2010	Visit to Ankara, Turkey	Meeting with TRACECA office Turkey on progress project and dissemination project deliverables	<i>René Meeuws</i>
November 29 – December 3, 2010	Visit to Bucharest, Romania	Discussion on sustainability transport training efforts in Romania and establishment regional network of training institutes	<i>René Meeuws</i>
December 8, 2010	TRACECA Meeting in Brussels	Meeting with Secretary-General TRACECA	<i>René Meeuws, Nina Nesterova</i>





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Annex 2 List of contacted persons

Organisation	Person	Position	E-Mail
Armenia			
TRACECA and Ministry of Transport and Communications	Mr. Gagik Grigoryan	National Secretary TRACECA and , Head of Foreign Relations Department	g.grigoryan@mtc.am grigoryan@arminco.com
Ministry of Transport and Communications	Mr. Artur Sargsyan	Deputy Head of Foreign Relations Department	a.sargsyan@mtc.am +37410590091 +37494648877
Ministry of Transport and Communications	Khachatur Manukyan	Chief Specialist of Foreign Relations Department	relex.mts@gmail.com manouk@dolphin.am +37410590098 mob: +37499050259
State Engineering University of Armenia (SEUA)	Gagik Musayelyan	Dean of the Transportation Systems Faculty, Head of the Automobiles Chair.	mobsect@seua.am ; transys@seua.am +37410 582330; +37493 885193
State Engineering University of Armenia (SEUA)	Gagik Yeritsyan	Head of the Chair Organization of Transportation and Road Safety.	gagikyeritsyan@gmail.com +374010 583106; mob: +37494008640
State Engineering University of Armenia (SEUA)	Armen Amirjanyan	Lecturer of the Organization of Transportation and Road Safety Chair	cartingsect@seua.am +374010 5831006 mob: +37477773037
State Engineering University of Armenia (SEUA)	Bakhshyan Artak	Associate Professor, Deputy Director of the Transport Systems Department	cartingsect@seua.am
State Engineering University of Armenia (SEUA)	Sargysian Valery	Lecturer	
Armenian State Agrarian University (SAUA)	Norik A. Bazikyan	Dean of Engineering Faculty, Head of Farm Mechanization and Transportation Chair.	n.bazikyan@mail.ru +37410567979 +37410 651716 +37493 253200
Armenian State Agrarian University (SAUA)	Arman Simonyan	Lecturer of Farm Mechanization and Transportation Chair.	manahars@makontakthoeil.ru +374010615561 +374093545594 mob: +37493545524
Azerbaijan			
TRACECA	Mr. Akif Mustafayev	National Secretary TRACECA	Akif.m@ps.traceca.org +99412933776
TRACECA	Mr. Rustan Jenalinov	TRACECA Secretary General	r.jenalinov@ps.traceca.org +99412982718
TRACECA	Mr. Anar Ismail	Tariff/railway expert IGC Permanent Secretariat	a.ismail@ps.traceca-org.org
TRACECA	Mrs. Fatima Atakishiyeva	IGC Permanent Secretariat	a.fatima@ps.traceca-org.org +994503796199 mobile
Azerbaijan Technical University	Mr. Sulhaddin K. Gozalov	Director of Transport Academy	sssz@mail.ru +994502212868 mobile
Azerbaijan Technical University	Mr. Mamedov Rauf Tofiq	Lecturer Transport Department	Rm58@rambler.ru +994503332744 mobile
Azerbaijan Technical University	Mr. Namazov Bakhtiyar	Lecturer Transport Department	
Bulgaria			
University of National and World Economy; Faculty of Infrastructure	Prof. Hristo Parvanov, D.Sc.	Dean	evrika@developer.bg +359 2 8195-227



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Economy			+359 887-72-00-27 mobile
University of Architecture, Engineering and Geodesy	Assoc. Prof. Peter Stefanov Ph.D.	Associate Professor and General Manager RUTEX	rutex@netbg.com +359 878 307 456
RUTEX	Eng. Vesela Filipova	Head of Department RUTEX	rutex@netbg.com +359 888 671 512
Georgia			
TRACECA / Ministry of Economic Development, Transport Department	Mr. Mamuka Vatsadze	National secretary TRACECA / Head of Transport Department	mvatsadze@econom.ge +999899982369
Ministry of Economic Development	Paata Tsagareishvili	Deputy Head of Transport Department	paatats@econom.ge +99532982369
Transport Training Centre	Mr. Elizbar Darchiashvili	Director	+877203204
Georgian Technical University, Transportation Faculty	Mr. Otari Gelashvili	Dean of Faculty	+99532364035 +99599922223 mobile
Freight Forwarders Association Georgia	Mr. Zurab Shengelia		+899930917
Samtskhe-Javakheti Road Rehabilitation Project	Mr. Tengiz Gogelia	Deputy Team Leader	gogelia@wyqinternational.ge +99599557291 mobile
Caucasus School of Business, Caucasus University	Iremadze David	Associate Professor of Management and International Studies, Director CSB Graduate Studies	diremadze@geoeduconsulting.com
Kazakhstan			
Delegation of the European Commission in Kazakhstan, Technical Cooperation Section	Mrs. Gulnara Dusupova	Project Manager	Gulnara.dusupova@ec.europa.eu
Delegation of the European Commission in Kazakhstan, Technical Cooperation Section	Mrs. Alia Baidebekova	Project Manager	Alia.baidebekova@ec.europa.eu
TRACECA	Mr. Murat Bekmagambetov	National Secretary TRACECA	
NIIT K	Mr. Roman Andrutskiy	Chief Project Economist and Team Manager	andrutskiy@niitk.kz
KAZATO Union of International Road Carriers Kazakhstan	Mr. Teodor Kaplan	Secretary General	kazato@kazato.kz
Kazakh Academy of Transport and Communications named after M. Tynyshpayev (KazATC)	Alexei Monastyrskiy	Vice Rector	kazatk@mail.kz +7 327 292-09-86
Kazakh Academy of Transport and Communications named after M. Tynyshpayev (KazATC)	Mrs. Saule E. Bekzhanova	Dean of Faculty of Organization of Transportation	kazatk@mail.kz +7 327 292-09-86
Kazakh Academy of Transport and Communications named after M. Tynyshpayev (KazATC)	Adylbek K. Botabekov	President – Rector	botabekov@rambler.ru
Kazakh Academy of Transport and Communications named after M. Tynyshpayev (KazATC)	Aliya Mustapaeva	Head of Scientific Department	
Kazakh Academy of Transport and Communication	Mr. Akhmetov Bakhytzhn	Director of the Centre of Information Technology	b.akhmetov@kazatk.kz
Kyrgyz Republic			
Kyrgyz International Road Transport Association	Dr. Almazbek Irsaliev	Deputy Secretary General	airc@mail.ru
TRACECA and Ministry of Transport and Communications	Mr. Abdurahman M. Mamataliev	National Secretary TRACECA and Deputy Minister	mamataliev@mtk.gov.kg
Ministry of Transport and Communications	Mr. Kasykenov Janybek	Head of transport development management	kasykenov@mail.ru
Kyrgyz State Technical University	Mr. Torobekov Bekjan	Vice rector of educational work	Bekjan2003@mail.ru



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Kyrgyz State Technical University	Mr. Atabekov Kalmamat	Associate Professor of the Transport Management Chair	Atabekov_k@mail.ru
Kyrgyz State University of Construction, Transportation and Architecture	Shatmanov Orozbek Toktogulovich	Director of Institute of Transportation and Communications	intranscom@gmail.com
Moldova			
TRACECA	Mr. Eduard Biriucov	National Secretary TRACECA	biriucov@traceca.md
Ministry of Education and Youth	Mrs. Petrov Elena	Higher Education department	Elena_p05@yahoo.com
Transport College	Mr. Porumbrica Mihail	Head International Relations	mihailporumbrica@hotmail.com
Transport College	Mr. Boris Rusu	Director	ctca@araxinfo.com
Technical University	Mr. Valentin Amariei	Centre for Continuing Education – Vice rector	amariei@adm.utm.md
Technical University	Mr. Ceban Victor	Head Transport engineering and transport management	Dr_ceban@mail.md
Technical University	Mr. Vasile Cartofeanu	Dean of Faculty of engineering and management in mechanics	vcartofeanu@mail.utm.md
Technical University	Mrs. Tatiana Lucinschi	Department of International Cooperation	extrel@adm.utm.md
Romania			
TRACECA	Mr. Ionut Iordache	National Secretary TRACECA	traceca@mt.ro
Polytechnical University Bucharest	Mrs. Mihaela Popa	Associate Professor and Vice Dean	mihaela.popa@upb.ro
Tajikistan			
Tajik Technical University “M.S.Osimi”	Mr. Anvar Abdurasulovich Abdurasulov	Rector	anvary@ttu.tj +992 37 221 35 11
Tajik Technical University “M.S.Osimi”	Prof. Dr. Sanginov Oblokul Kamarovich	Pro rector	Sanginov@mail.ru +992 37 227 48 31
Tajik Technical University “M.S.Osimi” Faculty of Transport	Prof. Dr. Tursunov Abdukahhoz Abdusamadovich	Dean	abdukahhoz@mail.ru +992 37 223 07 01
Tajik Technical University “M.S.Osimi” Faculty of Management and Transport Construction	Prof. Dr. Oev Abdullhak Mansurovich	Dean	+992 37 237 29 51
Tajik Technical University “M.S.Osimi”	Mr. Khabibulloyev Khabibull	Vice-Chancellor of International Relations	habibullo@mail.ru
Tajik Academician Research and Educational Network Association	Mr. Naimov Abdurahmon	Technical director	naimov@tarena.tj +992 372 232816
Association of Tajik Freight Forwarders	Mr. Boymurod Eshonov	President	abbat@tojikiston.com +992 37 2211857
ABBAT Association of International Automobile Carriers of the Republic of Tajikistan	Mr. Boymurod Eshonov	Vice-president	abbat@tojikiston.com +992 37 2211857
ABBAT Association of International Automobile Carriers of the Republic of Tajikistan	Mrs. Sabuchat	Director of training centre	
Ministry of Transport and Communication	Mr. Boboev Olim	Deputy Minister	+992 37 2210701
TRACECA	Mr. Solih Muminov	National Secretary	Tel/Fax: (992372) 21 09 70 E-mail: straceca@net.tj , straceca@rs.tj
Turkey			
Ministry of Transport and	Mr. Tozar Baris	TRACECA National	tozar@ubak.gov.tr





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Communications of Turkey		Secretary	
Ministry of Transport and Communications of Turkey	Ms. Özyanık Seçil		sozyanik@ubak.gov.tr
Dokuz Eylul Universitesi School of Maritime Business and Management	Mrs. Güldem Cerit	Rector	gcerit@tnn.net
Dokuz Eylul Universitesi School of Maritime Business and Management	Capt. Dr. Selcuk Nas	Deputy director	+90 232 453 70 72 snas@deu.edu.tr nas@nasmaritime.com
Dokuz Eylul Universitesi School of Maritime Business and Management Deck Dept.	Prof. Hakki Kisi	Head of deck department	+90 232 453 70 72 hakki.kisi@deu.edu.tr
Dokuz Eylul Universitesi School of Maritime Business and Management Dept. of Maritime Business	Assist. Professor Dr. D. Ali Deveci	Deputy head of maritime business and management dept., lecturer	+90 232 4128801 or direct 05 mobile 5057617576 adevici@deu.edu.tr
Dokuz Eylul Universitesi School of Maritime Business and Management Dept. of Maritime Business	Assist. Prof. Dr. Ersel Zafer Oral	Lecturer	+90 232 412 8816 ersel.oral@deu.edu.tr eoral@yahoo.com
Dokuz Eylul Universitesi School of Maritime Business and Management Deck Dept.	Mr. Oguz Atik	Lecturer	oguz.atik@deu.edu.tr +90 232 412 8814
Dokuz Eylul Universitesi School of Maritime Business and Management Deck Dept.	Capt. A. Ozgur Alemdag	Lecturer	ozgur.alemdag@deu.edu.tr
Turkmenistan			
Ukraine			
TRACECA and Ministry of Transport	Mr. Hryhorii Lehenkyi	National Secretary TRACECA and Director of Department for Development and Coordination of Transport Systems	
Ministry of Transport	Mrs. Antonina Guzmanenko	Deputy Director of Department for Development and Coordination of Transport Systems	
Ministry of Transport	Mrs. A. Denshikova	Senior Specialist	
Ministry of Transport	Mrs. A. Novikova	Vice Director of State Transport Scientific Institute of MoT	
National Transport University	Mr. M. Dmytrychenko	Rector NTU	dmitrichenko@ntu.edu.ua
National Transport University	Mr. R. Simonenko	Associate Professor of Engine Department	RSymonenko@insat.org.ua
National Transport University	Mr. O. Tokin	Head of Department. Associate Professor.	tokin@ntu.edu.ua
National Transport University	Mrs. V. Tkachenko	Senior Lecturer of Transport Low and Logistics Depart.	
National Transport University	Mrs. A. Aristova	Head of Pedagogical Depart.	aristovaalla@yahoo.com
National Transport University	Mr. Andrusenko Sergii	Director of Institute of distance learning, Head of chair	androu@ntu.edu.ua
National Aviation University	Mrs. O. Katerna	Assistant Lecturer of Logistics Chair. Deputy Dean of Management and Logistics Department	satalkina@ukr.net
National Aviation University	Mr. Rinat M. Salimov	Prof. Vice-rector	rsalimov@nau.edu.ua





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National Aviation University	Mrs. Mariya Grigorak	Expert Logistics	
National Aviation University	Mrs. O. Karpun	Associate Professor of Logistics Chair	karpun@ukr.et
National Aviation University	Mrs. O. Ilyenko	Senior Lecturer of Logistics Chair	oks-iltko1@yandex.ru
National Aviation University	Mrs. T. Gabrielova	Associate Professot of Air Transportation Management. Head of Chair	gabrielova@bk.ru
National Aviation University	Ms. Sokolova Elena	Head of the Training/Methodical Section	perevozki2003@ukr.net
Ukrzovnishtrans	Mr. E. Novikov	Director General	uzt@public.ua.net
World Bank	Mrs. Tetyana Dyachenko	Trade and Transport Facilitation Diagnostics Consultant	tdyachenko@worldbank.org
Logistics Platform Ukraine	Mrs. Ekaterina Bassova	Director	info@logisticsplatform.com.ua bassova@gmail.com
Olviya LLC	Olena Nevmerzhitska	President	
Delegation of European Commission to Ukraine	Svitlana Didkivska	Sector Manager Transport	Svitlana.didkivska@ec.europa.eu
Delegation of European Commission to Ukraine	Laura Garagnani	First Counsellor Head of Operations	Laura.garagnani@ec.europa.eu
Delegation of European Commission to Ukraine	Hans Rhein	First Secretary Head of Operation Sectxon Energy, Transport, Environment	Hans.rhein@ec.europa.eu
Uzbekistan			
Association of International Road Carriers of Uzbekistan; Training ScientificCenter	Valeriy A. Topalidi	Director	vat@tps.uz
Asian Development Bank Uzbekistan Resident Mission	Mr. Hong Wei	Country Director	hwei@adb.org
Association of International Road Carriers of Uzbekistan	Dr. Nikolay V.Kuznetsov	Head of international & analytical TIR department	aircuz@ars.uz
Institute for Automobile Transport and Road Construction	Mr. Abdurahim Abdurahmonov Abdurahmanovich	Vice rector for education	
Institute for Automobile Transport and Road Construction	Mr. Bobur Sirojiddinov (Bob)	Head of department for international relations	boburzod@gmail.com
Institute for Automobile Transport and Road Construction	Mr. Butaev Sherzod Ochilovich	Chief of department "Automobile transportation and logistics!"	
Institute for Automobile Transport and Road Construction	Mrs. Sarvirova Natalya Sergeevna	Economy and Service Department	sarvirova2006@mail.ru
Institute for Automobile Transport and Road Construction	Mr. Oblagulov Abdunaim	Dean of Faculty "Automobile Roads" (Construction)	
Institute for Automobile Transport and Road Construction	Mrs. Radjabova Raisa Vasitovna	Head of Language Department	
Institute for Automobile Transport and Road Construction	Mr. Butaev Sherzad	Chief of the Transport Chair	
Tashkent Institute for Railway Transport Engineers	Mrs. Ferusa Fusailovna Karimova	Pro-rector for education	http://www.tashit.uz +998712220401
Tashkent Institute for Railway Transport Engineers	Mr. Abdullaev Rustam	Head of department "Technology of freight	+998712990451





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		and commercial works and stations"	
TRACECA/AIFFU Freight Forwarders Association	Mr. Anvar Urunov	Expert	+99871 2495920 +99871 2495921 Mobile (99897) 3390740
Other			
GTZ German Technical Cooperation	Mr. Zafar M. Khodjaev	ABT Coordinator	zafar.khodjaev@gtz.de
United Nations ECE Transport Division	Mr. Miodrag Pesut	Economic Affairs Officer	miodrag.pesut@unece.org
Secretary of Integration Committee of the Eurasian Economic Community	Mr. Takhir Aliev	Head of Department of Transport Policy	dtpri@evrazes.ru
International Road Transport Union	Mr. Janusz Lachny	President	iru@iru.org
International Road Transport Union	Mrs. Lobna AL LAMI	Project Officer, IRU Delegation to MES	lobna.allami@iru.org
International Road Transport Union	Mr. Dmitry Larionov	Senior Officer, Policy	Dmitry.larionov@iru.org
UN Economic Division for Europe	Mr. Miodrag Pesut	Economic Affairs Officer, Transport Division	miodrag.pesut@unece.org
ASMAP, Association of Int. Road Carriers, Russia	Mr. Vladimir Donskoy	Road Transport Department	donskoi@asmap.ru
UN-ESCAP	Mr. Madan B. Regmi	Economic Affairs Officer	Regmi.unescap@un.org
EuropeAid Cooperation Office	Mrs. Helisene Habart (until December 2008)	Project manager	Helisene.habart@ec.europa.eu
EuropeAid Cooperation Office	Mrs. Barbara Bernardi (from January 2009)	Project Manager	Barbara.bernardi@ec.europa.eu



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Annex 3 Project Interim Report

(Form 2.2)

Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)		Project number : EUROPEAID/126298/C/SER/MULTI					Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan				Page : 1				
Period : 01/08/2010 – 31/12/2010		Prepared on : December 2010					Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam								
Project objectives: - to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries; - to improve the training capacity of transport higher education entities in the TRACECA NIS countries.															
No	ACTIVITIES IMPLEMENTED	Months						INPUTS							
								PERSONNEL LONG TERM EXPERTS (M-d)		PERSONNEL SHORT EXPERTS (M-d)		EQUIPMENT AND MATERIAL		OTHER	
		08	09	10	11	12		Planned	Utilised	Planned	Utilised	Planned	Utilised	Planned	Utilised
01	Review course contents and curricula Transport Planning							0	0	0	0				
02	Raise awareness for state-of-the-art techniques Transport Planning							0	0	0	0				
03	Develop course materials Transport Planning							0	0	0	0				
04	Training teaching staff Transport Planning							0	0	0	0				
05	Improve curricula and course contents and liaise with post-graduate departments Transport Planning							0	0	0	0				
06	Assist in course development for transport simulation and forecasting software							0	0	0	0				



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Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 2
Period : 01/08/2010 – 31/12/2010	Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	

Project objectives:
 - to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries;
 - to improve the training capacity of transport higher education entities in the TRACECA NIS countries.

No	ACTIVITIES IMPLEMENTED	Months						INPUTS							
		08	09	10	11	12		PERSONNEL LONG TERM EXPERTS (M-d)		PERSONNEL SHORT EXPERTS (M-d)		EQUIPMENT AND MATERIAL		OTHER	
								Planned	Utilised	Planned	Utilised	Planned	Utilised	Planned	Utilised
07	Review course contents and curricula Investment Appraisal							0	0	0	0				
08	Raise awareness for state-of-the-art techniques Investment Appraisal							0	0	0	0				
09	Develop course materials Investment Appraisal							0	0	0	0				
10	Training teaching staff Investment Appraisal							0	0	0	0				
11	Improve curricula and course contents and liaise with post-graduate departments Investment Appraisal							0	0	0	0				
12	Review teaching methods							0	0	0	0				
13	Training teaching staff Teaching Techniques							0	0	0	0				
14	Support training by post graduate departments Teaching Techniques							0	0	0	0				
15	Provide access to online libraries and other training materials Teaching Techniques							0	0	0	0				



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Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 3
Period : 01/08/2010 – 31/12/2010	Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	

Project objectives:
- to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries;
- to improve the training capacity of transport higher education entities in the TRACECA NIS countries.

No	ACTIVITIES IMPLEMENTED	Months						INPUTS							
		08	09	10	11	12		PERSONNEL LONG TERM EXPERTS (M-d)		PERSONNEL SHORT EXPERTS (M-d)		EQUIPMENT AND MATERIAL		OTHER	
								Planned	Utilised	Planned	Utilised	Planned	Utilised	Planned	Utilised
16	Training assessment evaluation Teaching Techniques							0	0	0	0				
17	Review course contents and curricula Multimodal Transport and Interoperability							0	0	0	0				
18	Adaptation course contents and curricula Multimodal Transport and Interoperability							0	0	0	0				
19	Symposium incl. field studies/excursions Multimodal Transport and Interoperability							0	0	0	0				
20	Assist in introducing altered course contents Multimodal Transport and Interoperability							0	0	0	0				
21	Assess regional experiences in training and research platforms							10	10	4	4				



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Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 4
Period : 01/08/2010 – 31/12/2010	Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	

Project objectives:
 - to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries;
 - to improve the training capacity of transport higher education entities in the TRACECA NIS countries.

No	ACTIVITIES IMPLEMENTED	Months					INPUTS							
							PERSONNEL LONG TERM EXPERTS (M-d)		PERSONNEL SHORT EXPERTS (M-d)		EQUIPMENT AND MATERIAL		OTHER	
		08	09	10	11	12	Planned	Utilised	Planned	Utilised	Planned	Utilised	Planned	Utilised
22	Organise discussions on establishing regional platforms and networks on training						10	10	4	4				
23	Carry out feasibility study on development of regional connections in the field of transport training						0	0	0	0				
24	Disseminate cooperation opportunities with European training institutes						10	10	4	4				
	TOTAL						30	30	12	12				





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Annex 4 Resource Utilisation Report

(Form 2.3)

Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)		Project number : EUROPEAID/126298/C/SER/MULTI		Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan		Page : 1	
Period : 01/08/2010 – 31/12/2010		Prepared on : December 2010		Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam			
Project objectives: - to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries; - to improve the training capacity of transport higher education entities in the TRACECA NIS countries.							
RESOURCES/INPUTS	TOTAL PLANNED ²	PERIOD PLANNED	PERIOD REALISED	TOTAL REALISED	AVAILABLE FOR REMAINDER		
PERSONNEL (in man days)							
Team Leader/Transport Planning Expert	348	20	20	348	0		
Transport Economics Training Expert	240	10	10	240	0		
Multimodal Transportation Training Expert	95	0	0	95	0		
Pedagogical Expert	200	0	0	200	0		
Non key experts	1315	12	12	1315	0		
Total	2198	42	42	2198	0		
Incidental Expenditures in euro	520000	15000	15000	520000	0		
Expenditure verification in euro	20000	10000	10000	40000	(20000)		

² Corrected contract taking into account three addenda to the original contract.



This Project is funded by the European Union



Annex 5 Output Performance Report

(Form 2.4)

Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 1
Period : 01/08/2010 – 31/12/2010	Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	
Output results	Deviation original plan + or - %	Reason for deviation	Comment
More than 250 teaching staff members of transport training entities and more than 500 young scientists/students are familiar with state-of-the-art research of sustainable transport policy, planning and appraisal tools including multimodal transportation and interoperability.	No deviation.		The achievement of this target will largely depend on the initiative of the trained trainers and the participating universities and institutes and their willingness to use and disseminate the curricula and training materials.
Minimum 24 teachers/lecturers through direct regional training and 180 teachers/lecturers through national training have participated in pedagogical courses.	No deviation.		The achievement of this target will largely depend on the initiative of the trained trainers and the participating universities and institutes and their willingness to use and disseminate the curricula and training materials.
7 regional training measures.	See comment.		Six regional training measures have been organized. One was cancelled.
National training measures on a country-wide basis	See comment.		The national seminar in Kyrgyz Republic was cancelled because of the political situation.
The percentage of quality rating of training programmes at the minimum level of "good"; target >80/100.	No deviation.		See evaluation reports of the training programmes.
Feasibility study for the establishment of a network of regional connections for advanced transport training in the TRACECA region.	No deviation.		
Implementation of network of regional connections for advanced transport training in the TRACECA region.	No deviation.		



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Annex 6 Project Final Report

(Form 3.2)

Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)		Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 1
Period : 31/07/2008 – 31/12/2010		Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	
Project objectives: - to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries; - to improve the training capacity of transport higher education entities in the TRACECA NIS countries.				
Reporting Period	Main Activities Undertaken	Contractor		Inputs
July 31, 2008 – August 1, 2009	Review course contents and curricula Transport Planning	47 days long term expert 22 days short term experts		
July 31, 2008 – August 1, 2009	Raise awareness for state-of-the-art techniques Transport Planning	15 days long term experts 28 days short term experts		
July 31, 2008 – August 1, 2009	Develop course materials Transport Planning	48 days long term experts 136 days short term experts		
February 1, 2009 – August 1, 2010	Training teaching staff Transport Planning	53 days long term experts 68 days short term experts		
July 31, 2008 – February 1, 2010	Improve curricula and course contents and liaise with post-graduate departments Transport Planning	22 days long term experts 23 days short term experts		
July 31, 2008 – February 1, 2010	Assist in course development for transport simulation and forecasting software	17 days long term experts 19 days short term experts		
July 31, 2008 – August 1, 2009	Review course contents and curricula Investment Appraisal	34 days long term experts 27 days short term experts		
July 31, 2008 – August 1, 2009	Raise awareness for state-of-the-art techniques Investment Appraisal	15 days long term experts 18 days short term experts		
July 31, 2008 – August 1, 2009	Develop course materials Investment Appraisal	56 days long term experts 153 days short term experts		
February 1, 2009 – August 1, 2010	Training teaching staff Investment Appraisal	54 days long term experts 79 days short term experts		



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Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)		Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 2
Period : 31/07/2008 – 31/12/2010		Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	
Project objectives: - to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries; - to improve the training capacity of transport higher education entities in the TRACECA NIS countries.				
Reporting Period	Main Activities Undertaken	Contractor		Inputs
July 31, 2008 – February 1, 2010	Improve curricula and course contents and liaise with post-graduate departments Investment Appraisal	21 days long term experts 17 days short term experts		
July 31, 2008 – February 1, 2010	Review teaching methods	49 days long term experts 29 days short term experts		
July 31, 2009 – August 1, 2010	Training teaching staff Teaching Techniques	50 days long term experts 45 days short term experts		
July 31, 2009 – August 1, 2010	Support training by post graduate departments Teaching Techniques	10 days long term experts 10 days short term experts		
February 1, 2009 – February 1, 2010	Provide access to online libraries and other training materials Teaching Techniques	29 days long term experts 98 days short term experts		
August 1, 2009 – February 1, 2010	Training assessment evaluation Teaching Techniques	40 days long term experts 30 days short term experts		
July 31, 2008 – August 1, 2009	Review course contents and curricula Multimodal Transport and Interoperability	47 days long term experts 36 days short term experts		
July 31, 2008 – August 1, 2009	Adaptation course contents and curricula Multimodal Transport and Interoperability	19 days long term experts 96 days short term experts		
February 1, 2009 – August 1, 2009	Symposium incl. field studies/excursions Multimodal Transport and Interoperability	32 days long term experts 66 days short term experts		
July 31, 2008 – February 1, 2010	Assist in introducing altered course contents Multimodal Transport and Interoperability	32 days long term experts 32 days short term experts		
July 31, 2008 – December 31, 2010	Assess regional experiences in training and research platforms	59 days long term experts 87 days short term experts		



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Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 3
Period : 31/07/2008 – 31/12/2010	Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	

Project objectives:
- to contribute to the training of well qualified and competent staff regarding the development of sustainable transport infrastructure and modern transport services in the TRACECA countries;
- to improve the training capacity of transport higher education entities in the TRACECA NIS countries.

Reporting Period	Main Activities Undertaken	Contractor	Inputs
July 31, 2008 – December 31, 2010	Organise discussions on establishing regional platforms and networks on training	54 days long term experts 69 days short term experts	
July 31, 2008 – August 1, 2010	Carry out feasibility study on development of regional connections in the field of transport training	48 days long term experts 77 days short term experts	
July 31, 2008 – December 31, 2010	Disseminate cooperation opportunities with European training institutes	32 days long term experts 50 days short term experts	
Total		883 days long term experts 1315 days short term experts	



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Annex 7 Output Performance Summary

(Form 3.3)

Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 1
Period : 01/08/2010 – 31/12/2010	Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	
Output results	Deviation original plan + or - %	Reason for deviation	Comment
Review course contents and curricula Transport Planning	Planned: 60 days long term experts; 30 days short term experts Realized: 47 days long term experts; 22 days short term experts (-23%)		
Raise awareness for state-of-the-art techniques Transport Planning	Planned: 20 days long term experts; 20 days short term experts Realized: 15 days long term experts; 28 days short term experts (+8%)		
Develop course materials Transport Planning	Planned: 60 days long term experts; 120 days short term experts Realized: 48 days long term experts; 136 days short term experts (+2%)		
Training teaching staff Transport Planning	Planned: 40 days long term experts; 80 days short term experts Realized: 53 days long term experts; 68 days short term experts (+1%)		
Improve curricula and course contents and liaise with post-graduate departments Transport Planning	Planned: 40 days long term experts; 40 days short term experts Realized: 22 days long term experts; 23 days short term experts (-43%)		



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Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 2
Period : 01/08/2010 – 31/12/2010	Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	
Output results	Deviation original plan + or - %	Reason for deviation	Comment
Assist in course development for transport simulation and forecasting software	Planned: 20 days long term experts; 40 days short term experts Realized: 17 days long term experts; 19 days short term experts (-40%)		
Review course contents and curricula Investment Appraisal	Planned: 40 days long term experts; 30 days short term experts Realized: 34 days long term experts; 27 days short term experts (-13%)		
Raise awareness for state-of-the-art techniques Investment Appraisal	Planned: 40 days long term experts; 20 days short term experts Realized: 15 days long term experts; 18 days short term experts (-45%)		
Develop course materials Investment Appraisal	Planned: 60 days long term experts; 140 days short term experts Realized: 56 days long term experts; 153 days short term experts (+5%)		
Training teaching staff Investment Appraisal	Planned: 20 days long term experts; 80 days short term experts Realized: 53 days long term experts; 79 days short term experts (+32%)		
Improve curricula and course contents and liaise with post-graduate departments Investment Appraisal	Planned: 40 days long term experts; 30 days short term experts Realized: 21 days long term experts; 17 days short term experts (-45%)		
Review teaching methods	Planned: 40 days long term experts; 30 days short term experts Realized: 49 days long term experts; 29 days short term experts (+12%)		



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Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 3
Period : 01/08/2010 – 31/12/2010	Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	
Output results	Deviation original plan + or - %	Reason for deviation	Comment
Training teaching staff Teaching Techniques	Planned: 20 days long term experts; 60 days short term experts Realized: 50 days long term experts; 45 days short term experts (+19%)		
Support training by post graduate departments Teaching Techniques	Planned: 40 days long term experts; 40 days short term experts Realized: 10 days long term experts; 10 days short term experts (-75%)		
Provide access to online libraries and other training materials Teaching Techniques	Planned: 40 days long term experts; 20 days short term experts Realized: 29 days long term experts; 98 days short term experts (+112%)	Setting up a e-learning environment for the training materials under Dokeos and adapt course materials.	
Training assessment evaluation Teaching Techniques	Planned: 40 days long term experts; 20 days short term experts Realized: 40 days long term experts; 30 days short term experts (+17%)		
Review course contents and curricula Multimodal Transport and Interoperability	Planned: 50 days long term experts; 40 days short term experts Realized: 47 days long term experts; 36 days short term experts (-7%)		
Adaptation course contents and curricula Multimodal Transport and Interoperability	Planned: 60 days long term experts; 100 days short term experts Realized: 19 days long term experts; 96 days short term experts (-28%)		
Symposium incl. field studies/excursions Multimodal Transport and Interoperability	Planned: 70 days long term experts; 80 days short term experts Realized: 32 days long term experts; 66 days short term experts (-34%)		



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Project title : Strengthening of Transport Training Capacities in NIS countries (TRACECA)	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 4
Period : 01/08/2010 – 31/12/2010	Prepared on : December 2010	Contractor : NEA and its partners in the consortium Wagener & Herbst Management Consultants GmbH, TRADEMCO, Shipping and Transport College Rotterdam	
Output results	Deviation original plan + or - %	Reason for deviation	Comment
Assist in introducing altered course contents Multimodal Transport and Interoperability	Planned: 30 days long term experts; 40 days short term experts Realized: 32 days long term experts; 32 days short term experts (-8%)		
Assess regional experiences in training and research platforms	Planned: 30 days long term experts; 40 days short term experts Realized: 59 days long term experts; 87 days short term experts (+109%)	More time has been spent in searching for ways to make the project sustainable by establishing a regional platform for higher education centres in TRACECA.	
Organise discussions on establishing regional platforms and networks on training	Planned: 30 days long term experts; 40 days short term experts Realized: 54 days long term experts; 69 days short term experts (+76%)	More time has been spent in searching for ways to make the project sustainable by establishing a regional platform for higher education centres in TRACECA.	
Carry out feasibility study on development of regional connections in the field of transport training	Planned: 20 days long term experts; 30 days short term experts Realized: 48 days long term experts; 77 days short term experts (+150%)	More time has been spent in searching for ways to make the project sustainable by establishing a regional platform for higher education centres in TRACECA.	
Disseminate cooperation opportunities with European training institutes	Planned: 30 days long term experts; 30 days short term experts Realized: 32 days long term experts; 50 days short term experts (+37%)		





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